ADAMS AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

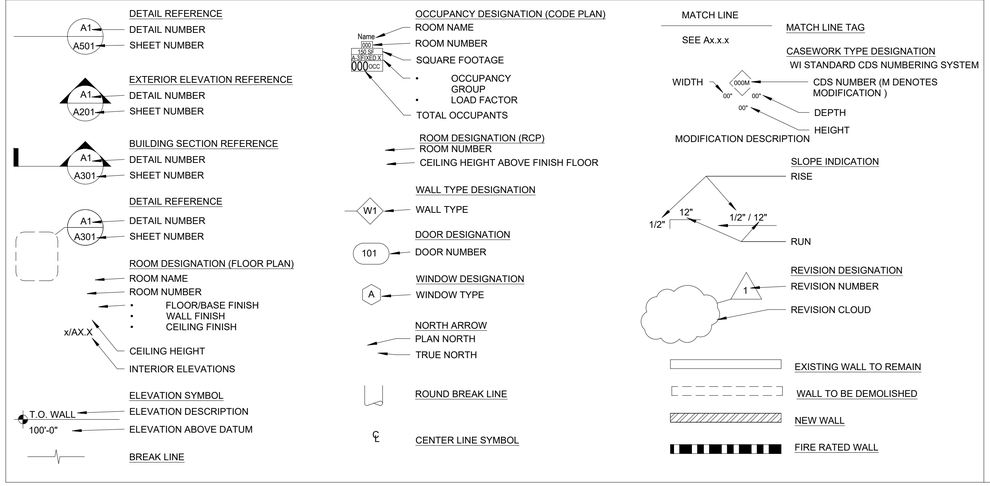
6402 Inglewood Ave, Stockton, CA 95207

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
OFD	OVERFLOW DRAIN	UNO	UNLESS NOTED OTHERWISE
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND	**V**	
OPP	OPPOSITE	VCT	VINYL COMPOSITE TILE
ORIG	ORIGINAL	VERT	VERTICAL
P		VEST	VESTIBULE
P LAM	PLASTC LAMINATE	VIF	VERIFY IN FIELD
PLAS	PLASTER		
PLUMB	PLUMBING	**W**	
PR	PAIR	W/	WITH
PSI	POUNDS PER SQUARE INCH	W/O	WITHOUT
PSF	POUNDS PER SQUARE FOOT	WD	WOOD
PVC	POLYVINYL CHLORIDE	WH	WALL HYDRANT
		WP	WORKING POINT
Q		WRB	WEATHER RESISTIVE BARRIER
QT	QUARRY TILE		
		X,Y,Z	NOT USED
R			
R	RISER OR RADIUS		THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
ADAMS E.S. AUGMENT KITCHEN HVAC STOCKTON USD

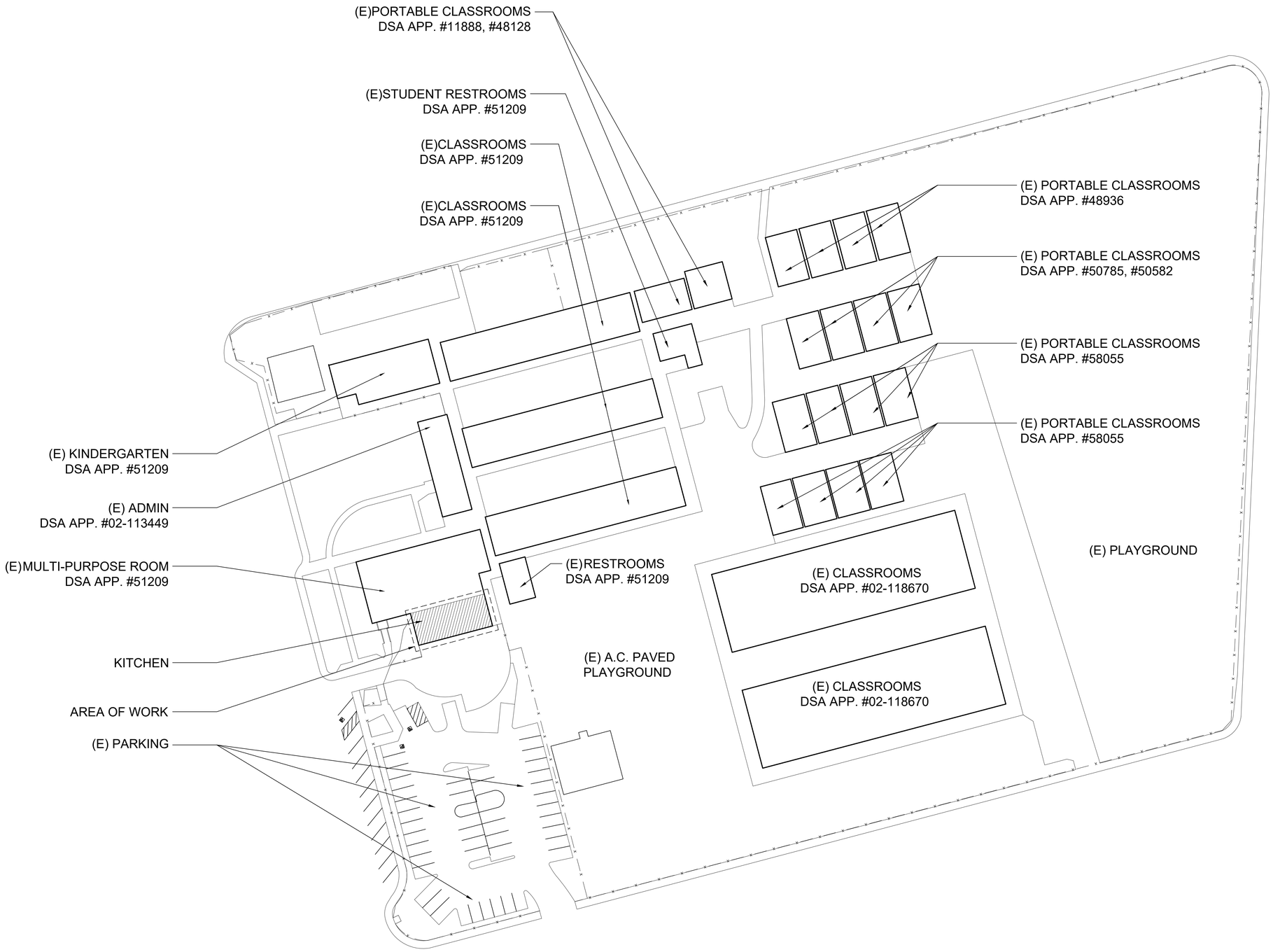
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2023

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

PROJECT TITLE:
ADAMS E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

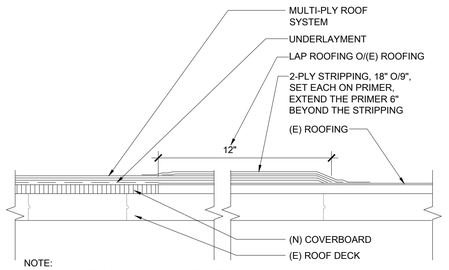
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2023

SITE PLAN

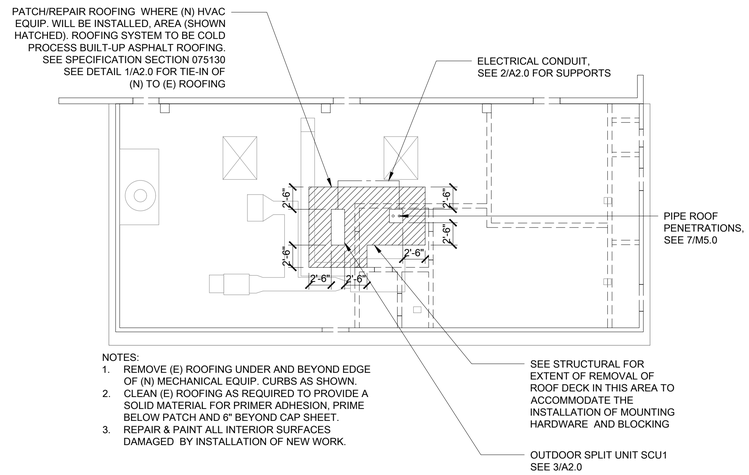
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

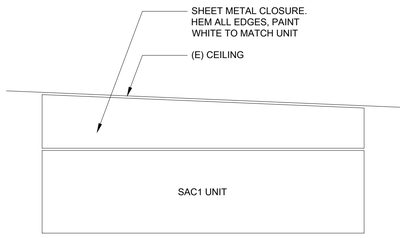
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

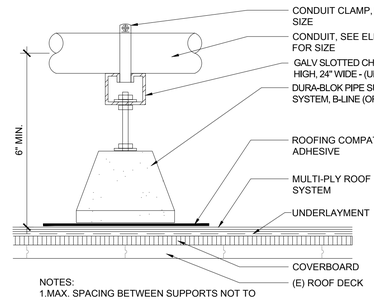
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

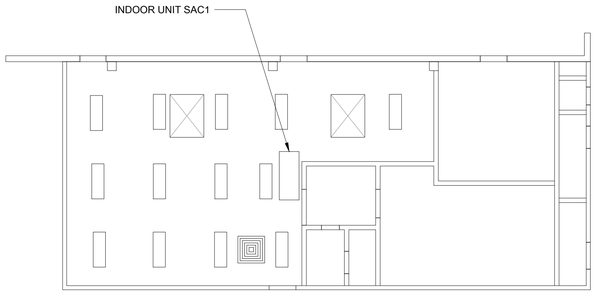
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

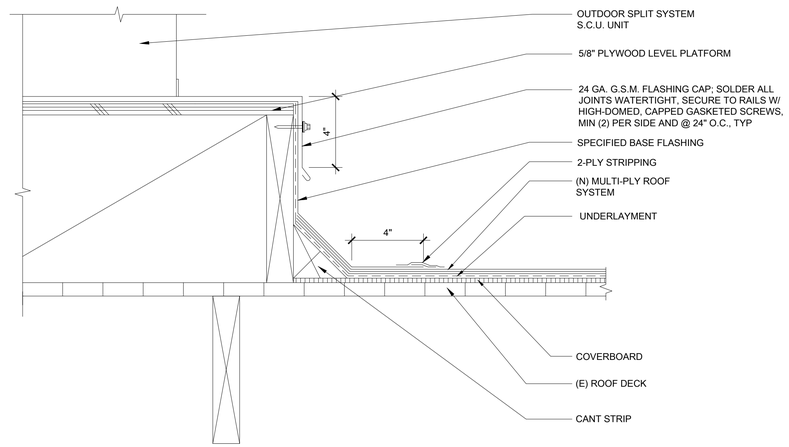
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

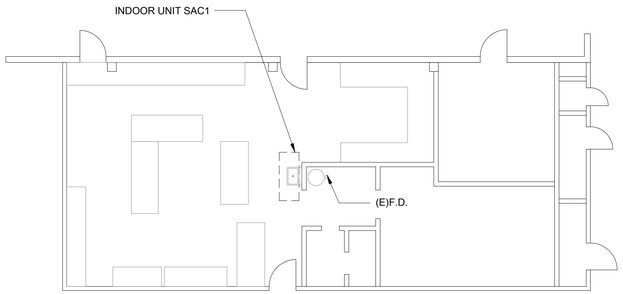
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

PROJECT TITLE:
ADAMS E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2023

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT
AB	ANCHOR BOLTS
AC	ASPHALTIC CONCRETE
AFF	ABOVE FINISH FLOOR
BN	BOUNDARY NAILING
BEV	BEVELED
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DF	DOUGLAS FIR
(E)	EXISTING
EF	EACH FACE
EW	EACH WAY
EJ	EXPANSION JOINT
EOS	EDGE OF SLAB
EN	EDGE NAILING
ES	EACH SIDE
FA	FRAMING ANCHOR
FD	FLOOR DRAIN
FF	FINISH FLOOR
FLG	FLANGE
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
GLB	GLUE LAMINATED BEAM
GSM	GALVANIZED SHEET METAL
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HDG	HOT DIPPED GALVANIZED
HP	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
ID	INSIDE DIAMETER
JT	JACK TRUSS
LFRS	LATERAL FORCE RESISTING SYTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LS	LAG SCREW
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MU	MECHANICAL UNIT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NSG	NON SHRINK GROUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
OWSG	OPEN WEB STEEL GIRDER
OWSJ	OPEN WEB STEEL JOIST
OH	OPPOSITE HAND
PCC	PRECAST CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED POINT
PW	PLYWOOD
R	RADIUS
SAD	SEE ARCHITECTURAL DRAWINGS
SDST	SELF DRILLING SELF TAPPING
SIM	SIMILAR
SCJ	SLIP CONTROL JOINT
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SS	STAINLESS STEEL
T24	TITLE 24 CALIFORNIA CODE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING TOP OF FRAMING
TOM	TOP OF MASONRY
T.O. SLAB	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
WS	WATER STOP
WWF	WELDED WIRE FABRIC
WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' < 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .609

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p= 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-068

REVISION #:

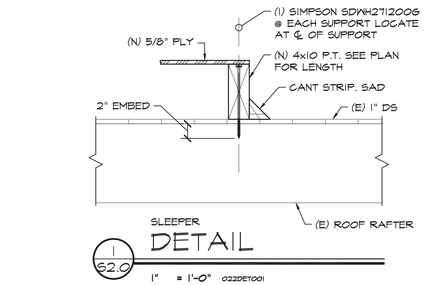
DATE:
10/23/2023

TYPICAL NOTES AND DETAILS

S1.0

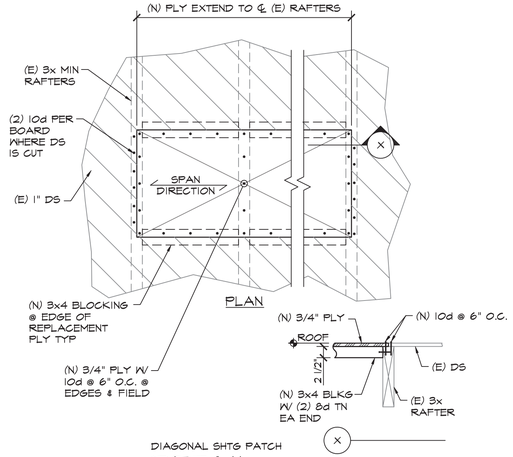
5/S2.0 NOT USED

= 1'-0"



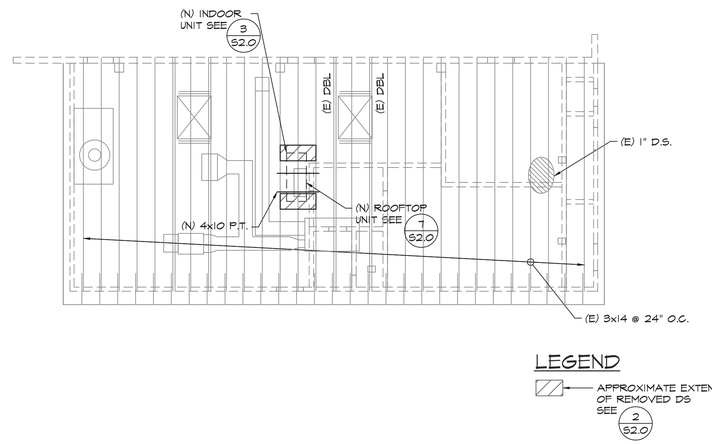
1/S2.0 DETAIL

1" = 1'-0" 022DET001



2/S2.0 DIAGONAL SHTG PATCH DETAIL

3/4" = 1'-0" 022DET002

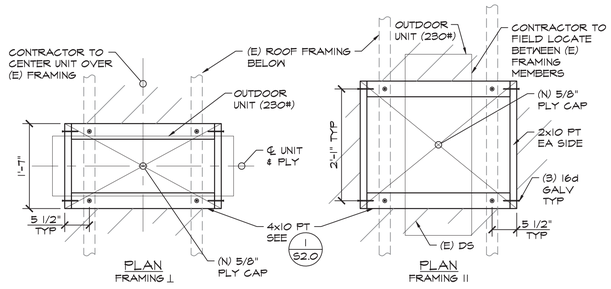


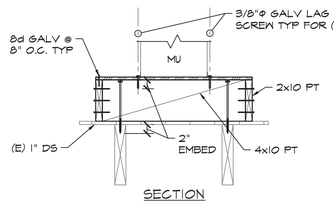
A/S2.0 KITCHEN ROOF FRAMING PLAN

1/8" = 1'-0"

6/S2.0 NOT USED

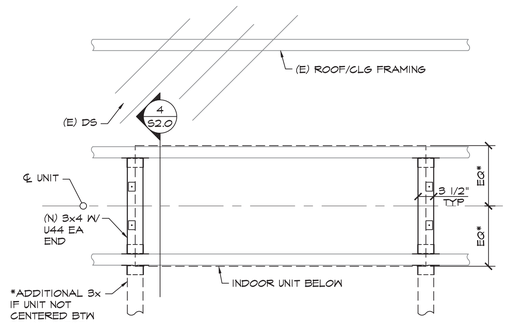
= 1'-0"





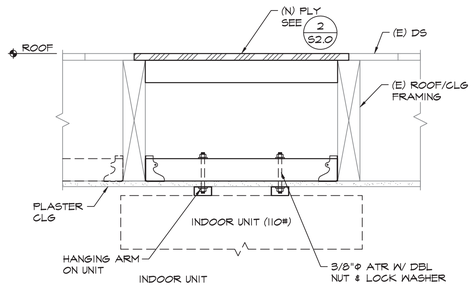
7/S2.0 OUTDOOR UNIT ANCHORAGE DETAIL

3/4" = 1'-0" 022DET007_3x_DS



3/S2.0 INDOOR UNIT DETAIL

3/4" = 1'-0" 022DET003



4/S2.0 INDOOR UNIT DETAIL

1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

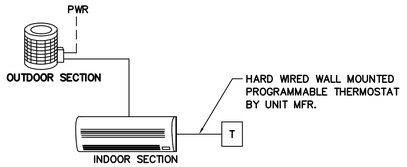
PROJECT #:
2023-068

REVISION #:

DATE:
10/23/2023

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	MCA	MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	1 2 3 4

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT — KIP DAVIS GRUBB — No. C19022 — EXP. 11/30/23 — STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — M 33498 — Exp. 9/30/25 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(j) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
J.P. DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
No. M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

TITLE 24
COMPLIANCE

M0.2

QC
INI	%

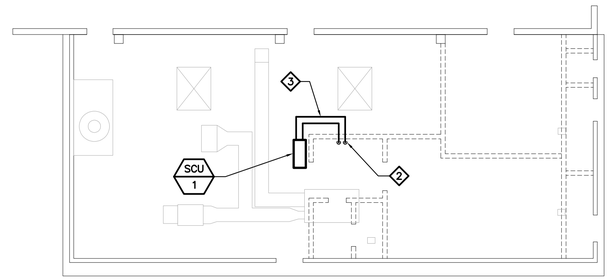
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

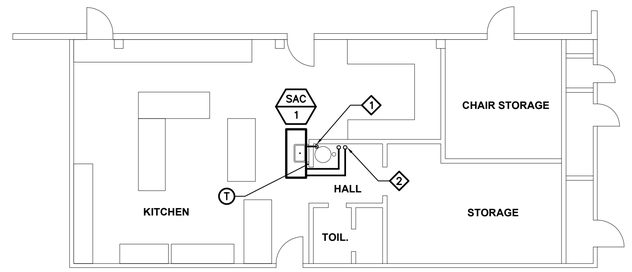
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD(D) ALONG INTERIOR OF WATER HEATER ROOM WALL. OFFSET THRU WALL BELOW SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

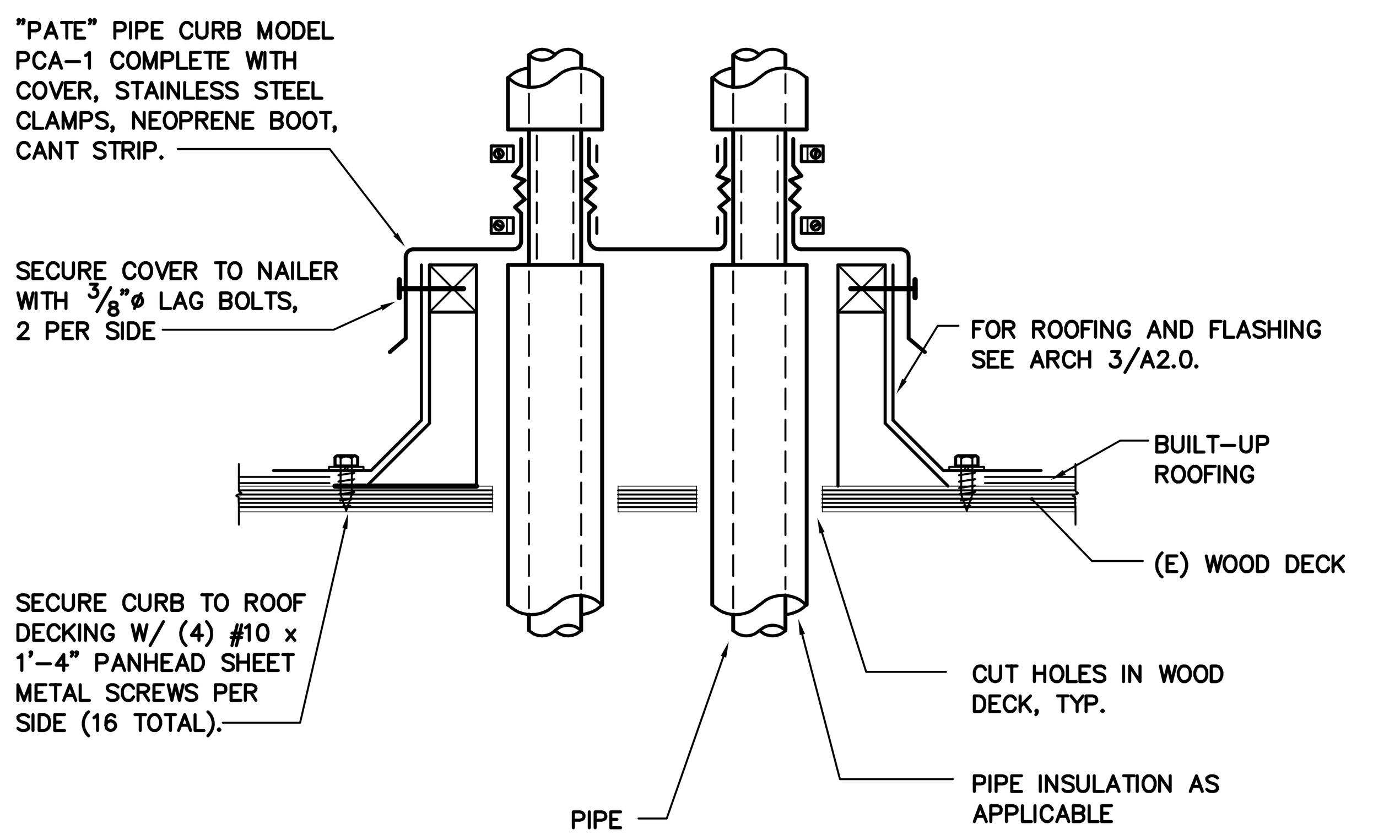
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

HVAC FLOOR AND ROOF PLAN

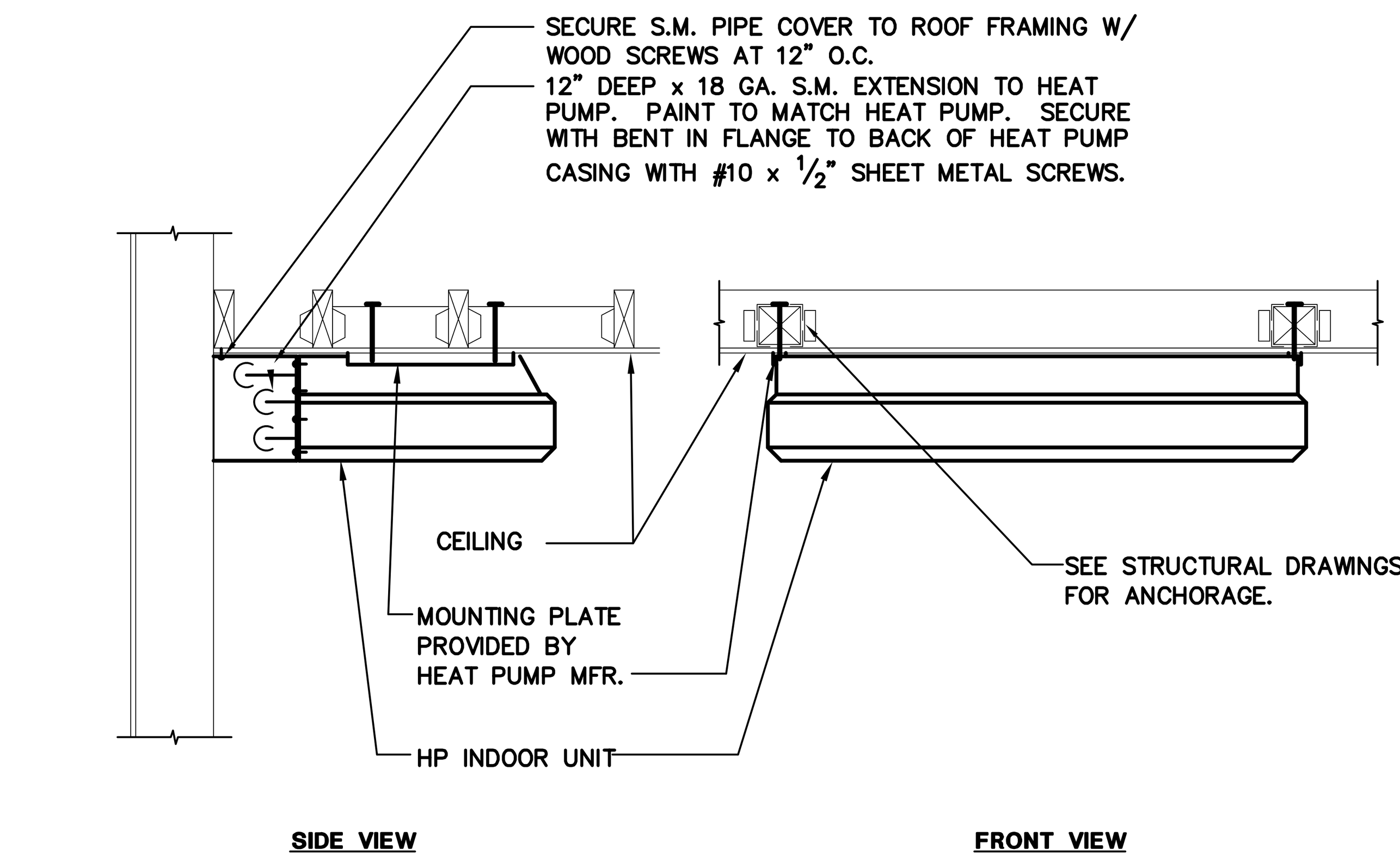
M2.0



PIPE THRU ROOF

SCALE : NONE

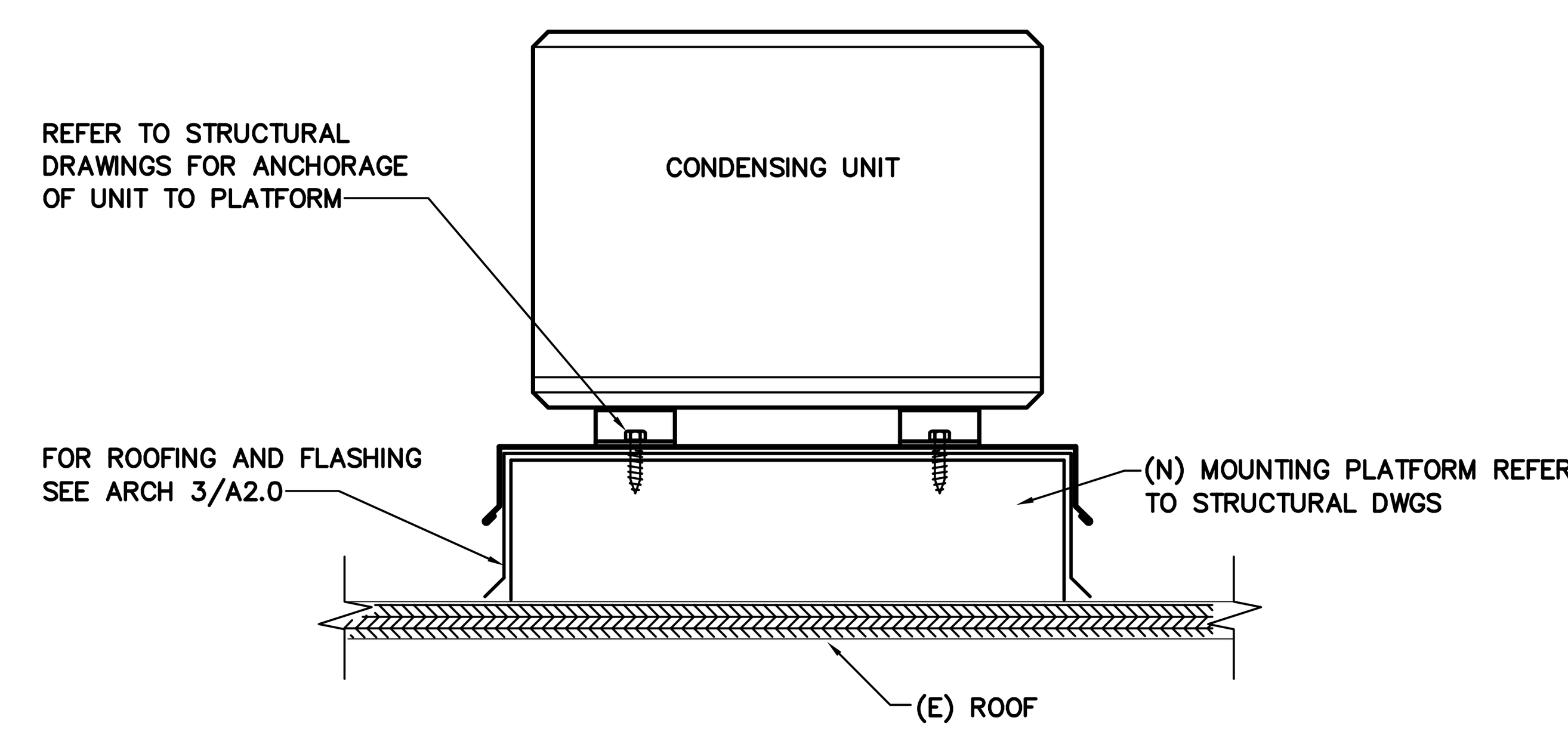
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

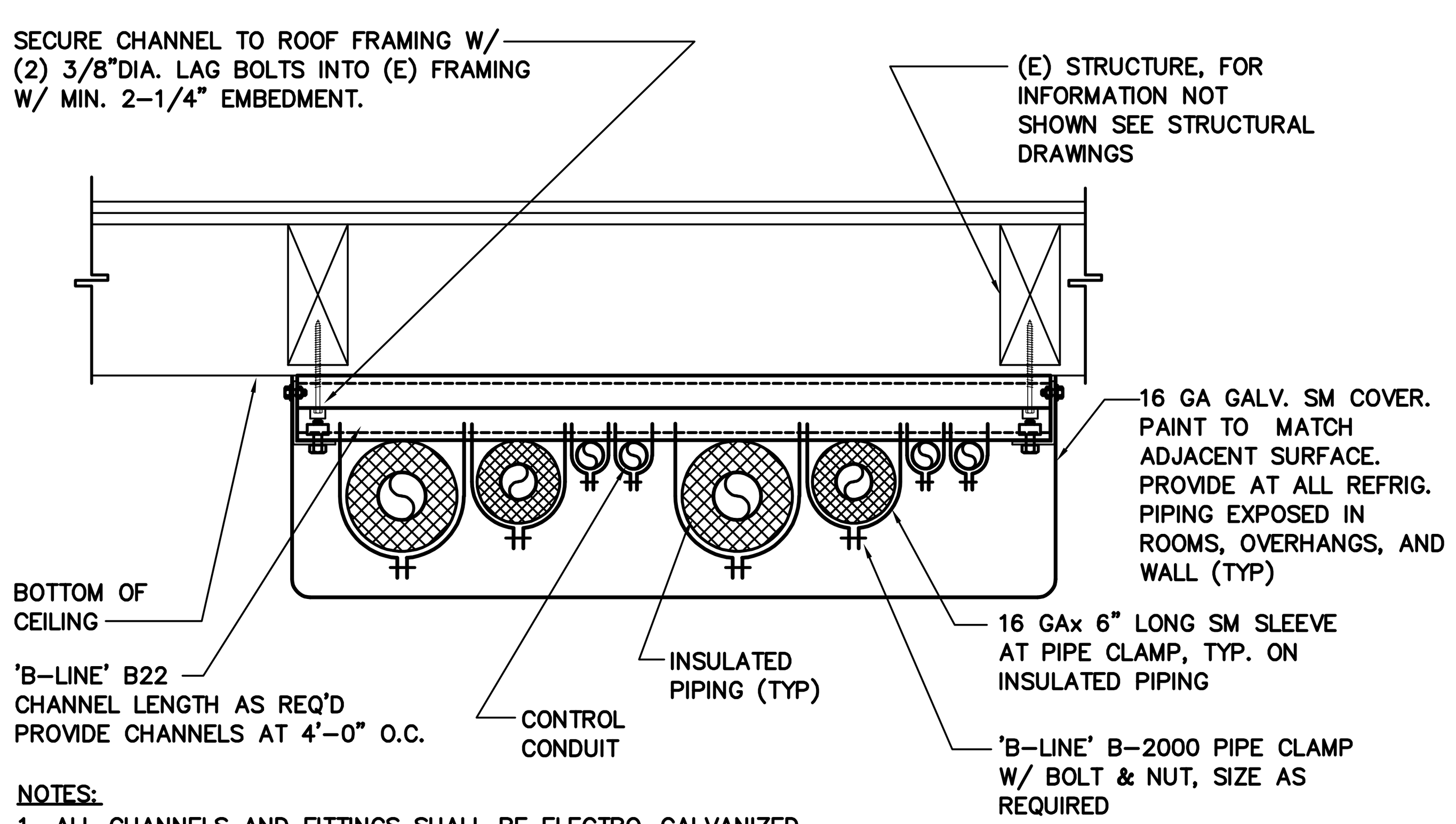
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:

1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33495 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT — KIP DAVIS GRUBB — No. C19022 — EXP. 11/30/25 — STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — NATHAN A. HEARN — No. E 23927 — 3-31-2024 — ELECTRICAL — STATE OF CALIFORNIA — 10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

ELECTRICAL LEGENDS AND NOTES

E0.1

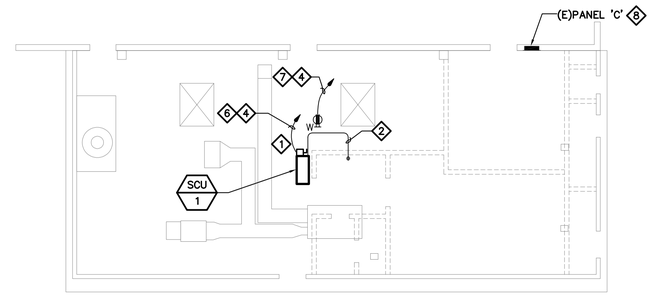
QC	
INI	%

SHEET NOTES:

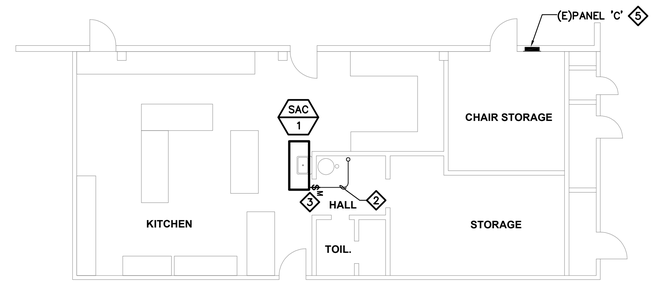
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'C'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. CONNECT SCU TO (E) 50/2 CIRCUIT BREAKER #16,18. REPLACE (E) 30/3 (32,34,36) WITH 1-30/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE.
   RECONNECT (E) EQUIPMENT TO NEW 30/2 CIRCUIT BREAKER.
   CONNECT ROOF RECEPTACLE TO 20/1 CIRCUIT BREAKER.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND
8. "LB" INTO BACK OF THE PANEL FROM THE MP ROOM. PATCH, SEAL, AND PAINT PENETRATION TO MATCH EXISTING.



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C 19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

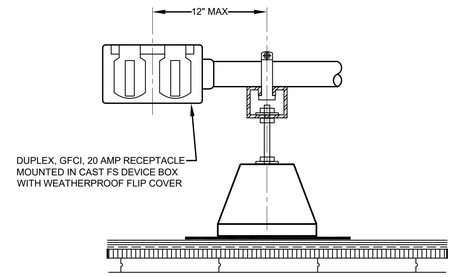
DATE:
10/23/2023

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

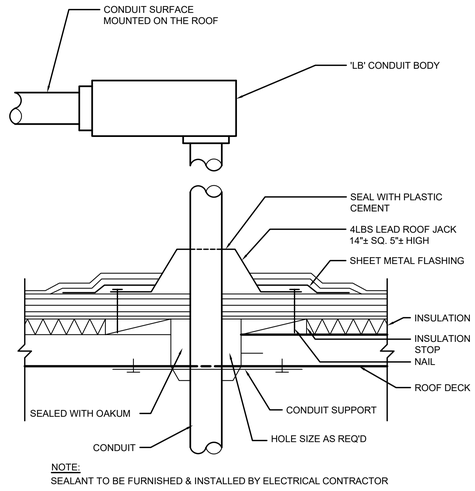


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Adams E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

ELECTRICAL
DETAILS

E5.0

AUGUST AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

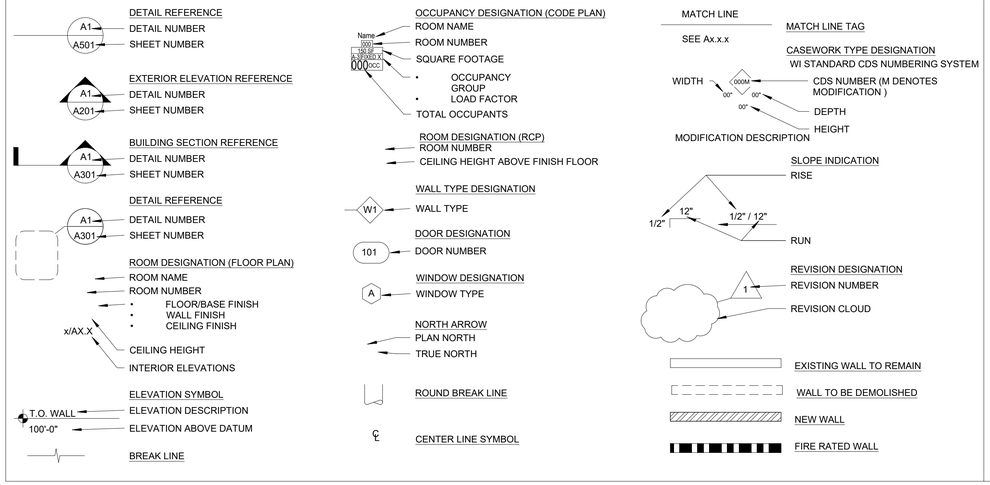
2101 Sutro Ave, Stockton, CA 95206

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
AUGUST E.S. AUGMENT KITCHEN HVAC STOCKTON USD

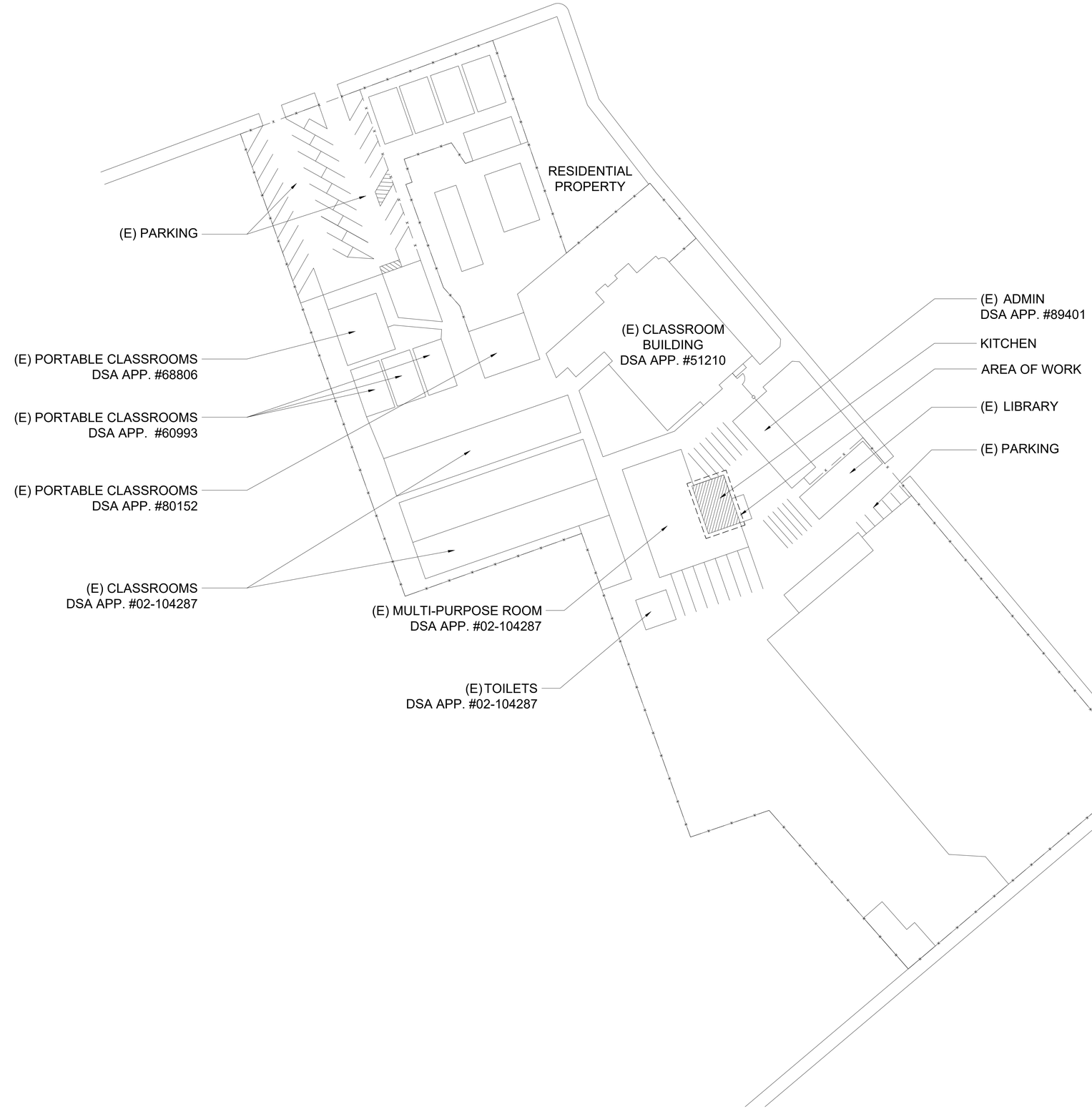
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2023

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

PROJECT TITLE:
AUGUST E.S.
AUGMENT KITCHEN HVAC
STOCKTON USD

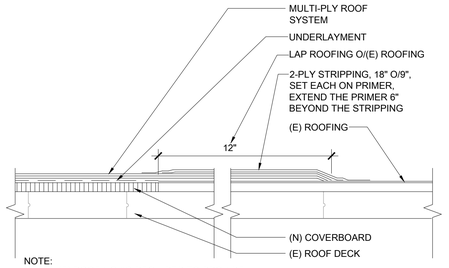
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2023

SITE PLAN

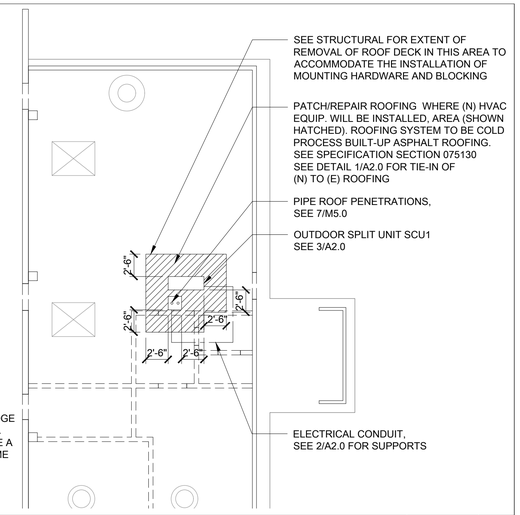
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

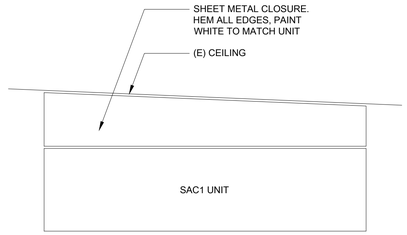
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

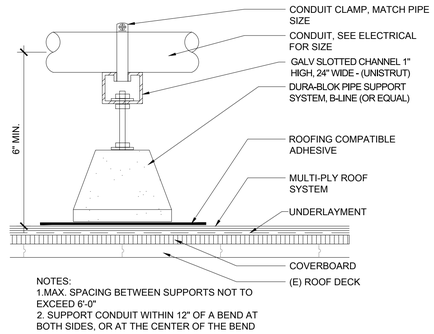
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

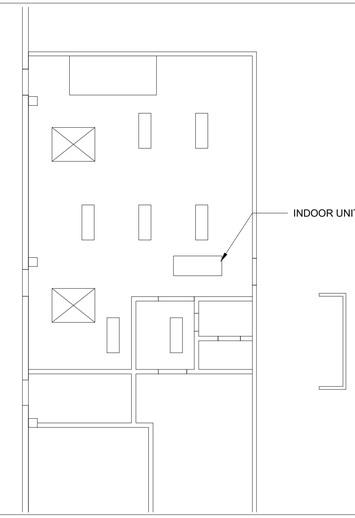
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

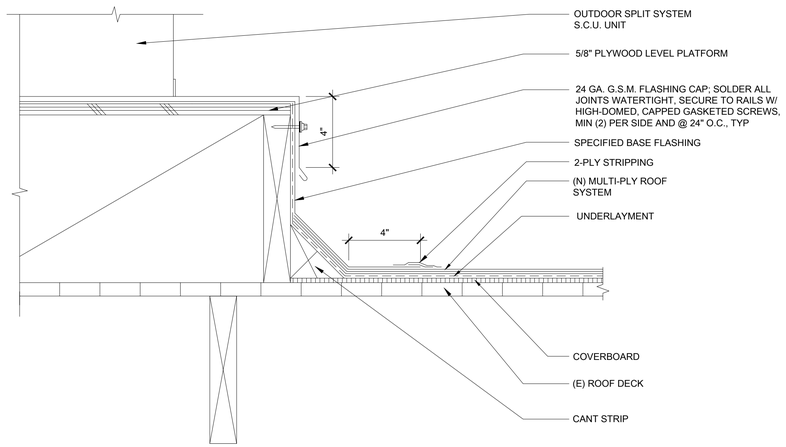
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

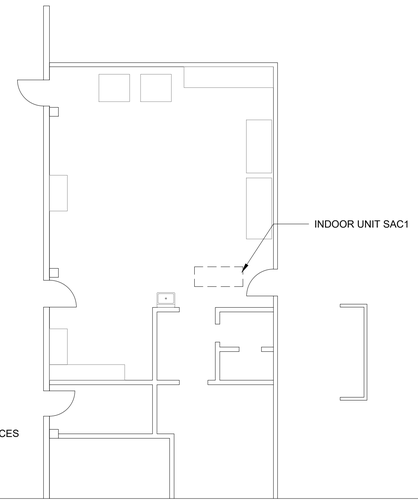
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

PROJECT TITLE:
AUGUST E.S.
AUGMENT KITCHEN HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2023

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
		WWF	WELDED WIRE FABRIC
JT	JACK TRUSS	WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' < 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .572

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W}{\left(\frac{R_p}{I_p}\right)}$

USE F_p= .029 Wp

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

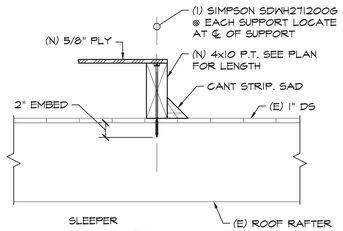
PROJECT #:
2023-034

REVISION #:

DATE:
10/23/2023

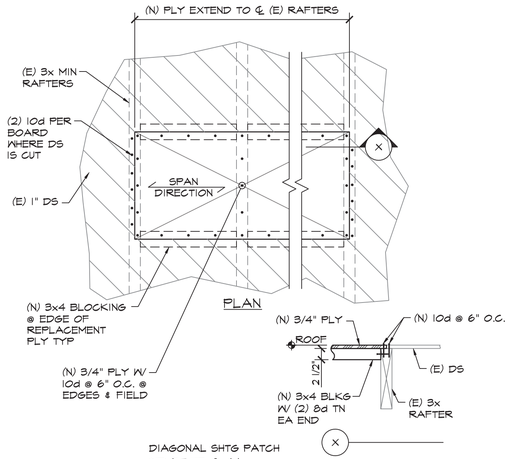
TYPICAL NOTES AND DETAILS

S1.0



1 S2.0 DETAIL

1" = 1'-0" 022DET001



2 S2.0 DIAGONAL SHTG PATCH DETAIL

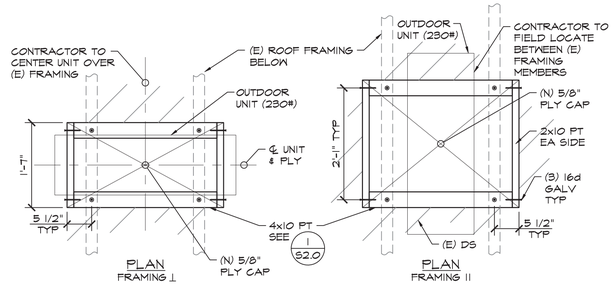
3/4" = 1'-0" 022DET002

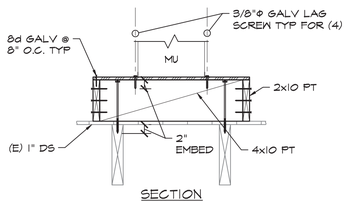
5 S2.0 NOT USED

= 1'-0"

6 S2.0 NOT USED

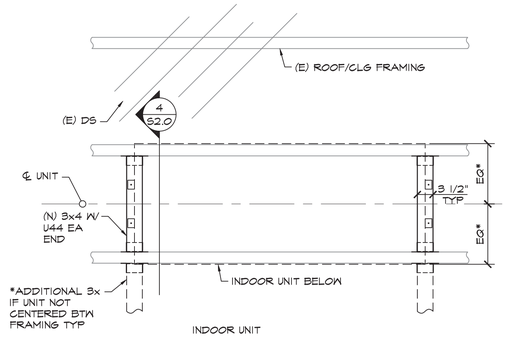
= 1'-0"





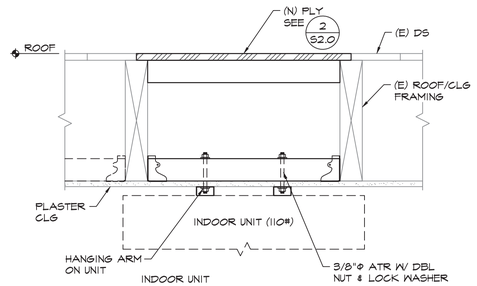
7 S2.0 OUTDOOR UNIT ANCHORAGE DETAIL

3/4" = 1'-0" 022DET007_8x_DS



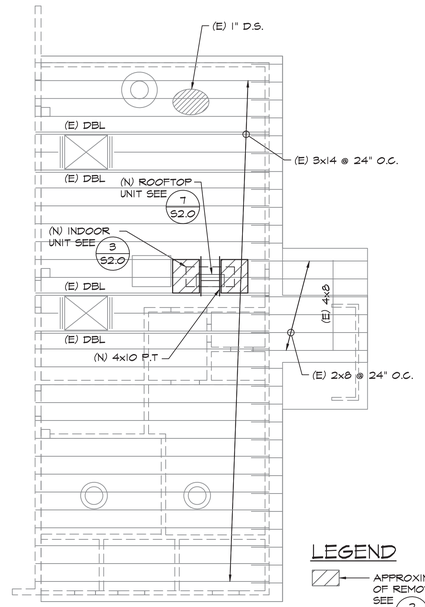
3 S2.0 INDOOR UNIT DETAIL

3/4" = 1'-0" 022DET008



4 S2.0 INDOOR UNIT DETAIL

1 1/2"= 1'-0" 022DET004



KITCHEN ROOF FRAMING PLAN

1/8" = 1'-0"

N

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

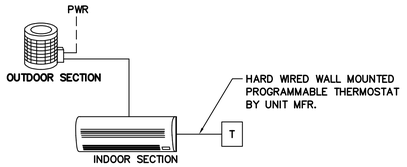
PROJECT #:
2023-034

REVISION #:

DATE:
10/23/2023

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

1 / M0.1

SCALE : NONE

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
ƒ	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C 19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C-19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

TITLE 24
COMPLIANCE

M0.2

QC
INI	%

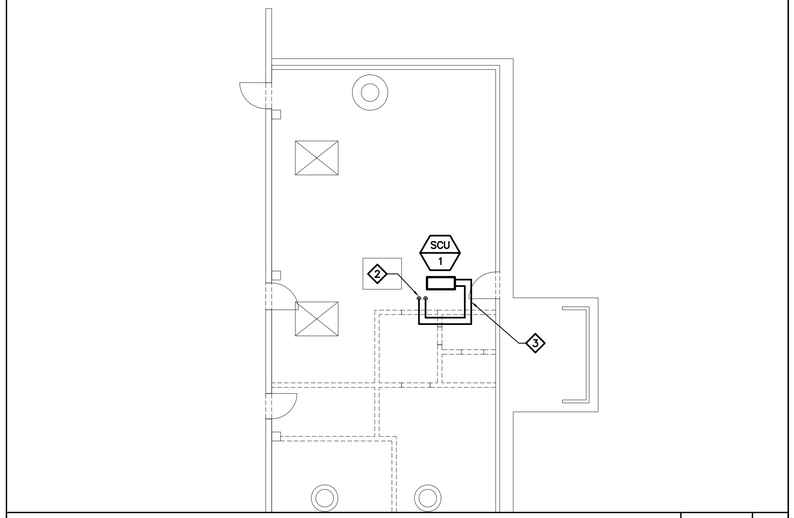
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

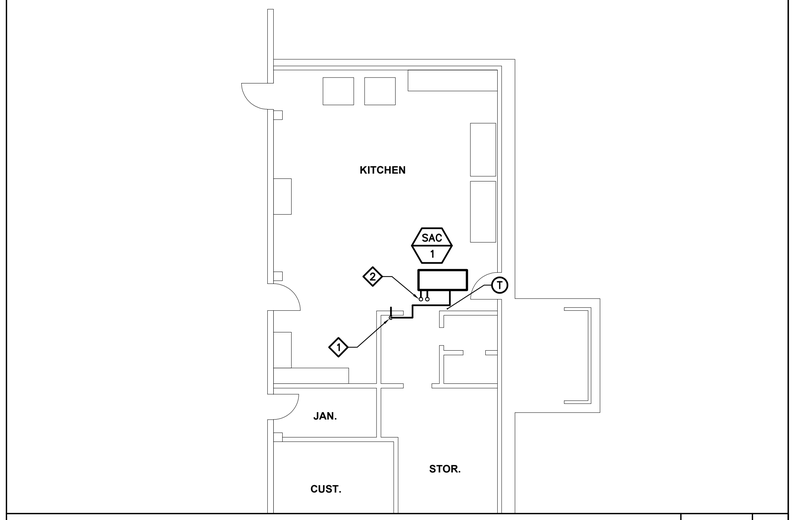
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD(D) ALONG INTERIOR OF WATER HEATER ROOM WALL. OFFSET THRU WALL BELOW SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

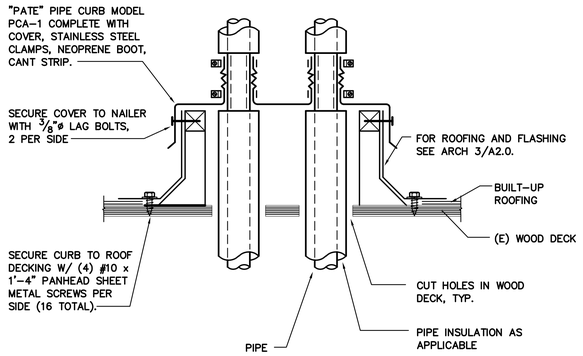
REVISION #:

DATE:
10/23/2023

HVAC FLOOR AND ROOF PLAN

M2.0

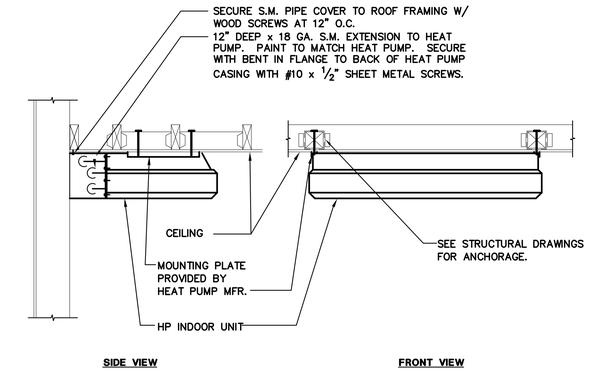
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

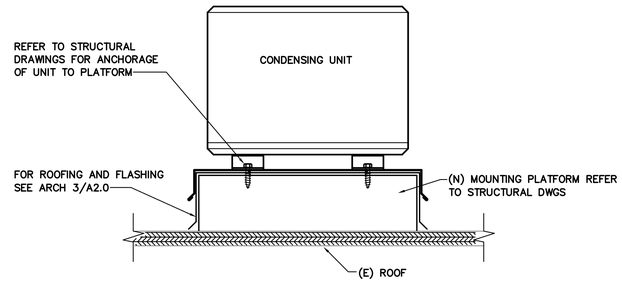
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

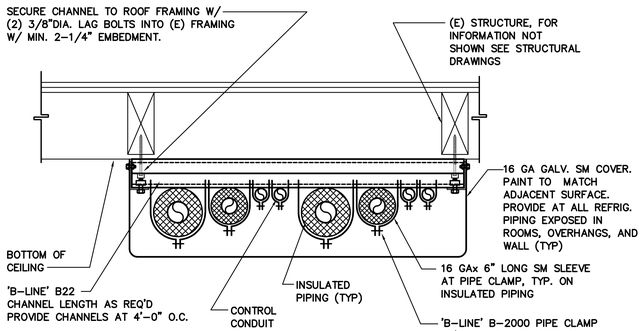
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C-19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
J	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C 19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

ELECTRICAL LEGENDS AND NOTES

E0.1

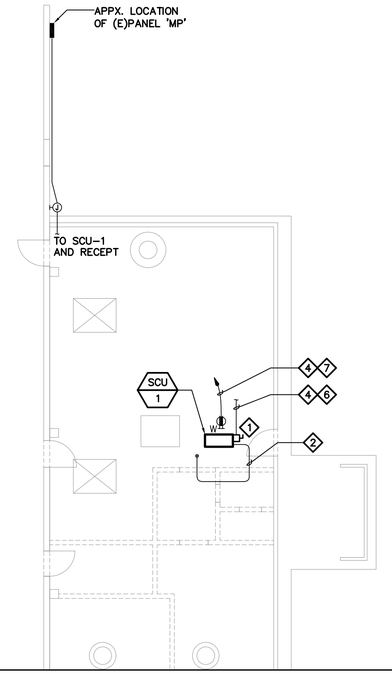
QC
INI	%

SHEET NOTES:

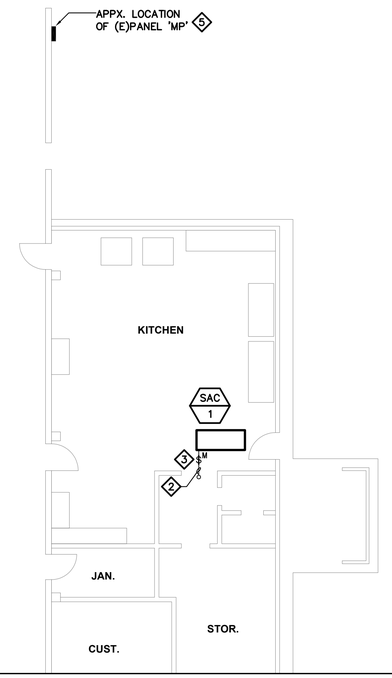
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE JUNCTION BOX SURFACE MOUNTED HIGH ON THE WALL. SURFACE MOUNT BRANCH CIRCUIT AND WIRING CONDUIT HIGH ON THE WALL, THEN ELLED DOWN TO PANEL 'MP'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 1



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

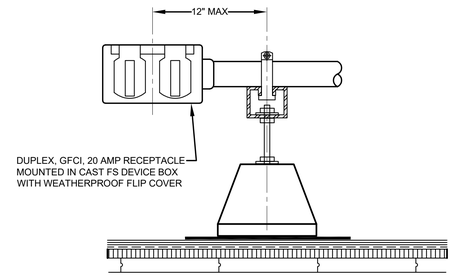
DATE:
10/23/2023

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

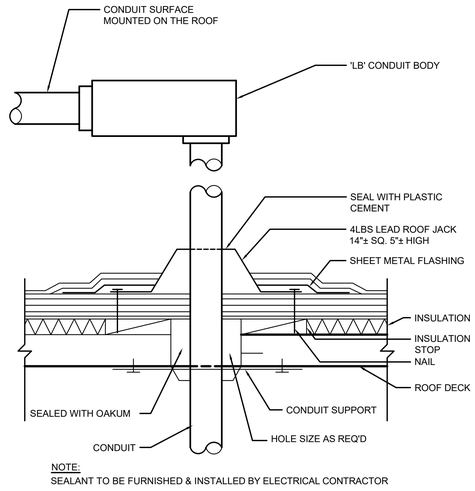


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
August E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2023

ELECTRICAL DETAILS

E5.0

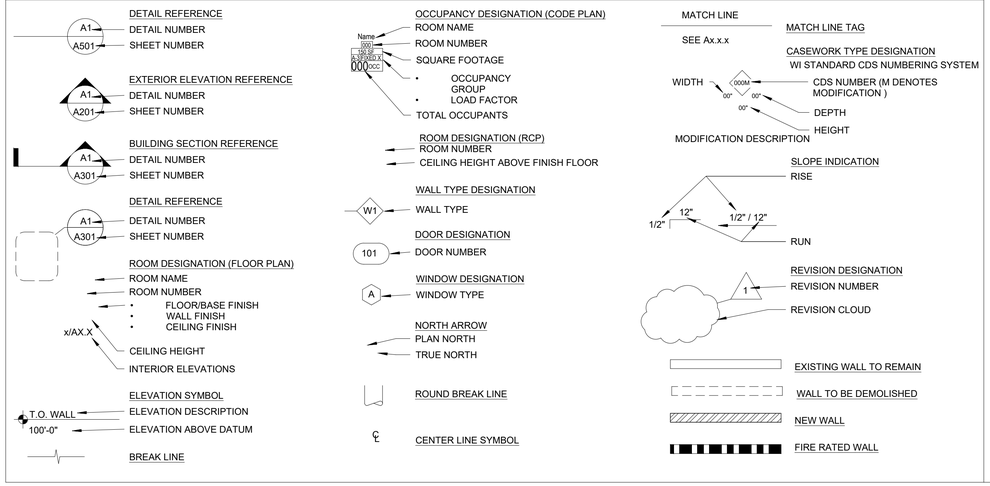
COMMODORE SKILLS AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

2725 Michigan Ave, Stockton, CA 95204

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT	**J**		RH	RELATIVE HUMIDITY
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER	JAN	JANITOR	RM	ROOM
AD	AREA DRAIN	EXP	EXPOSED			RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR	**K**	(NOT USED)	RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT					RWL	RAIN WATER LEADER
ALUM	ALUMINUM	**F**		**L**			
ANOD	ANODIZED	F	FAHRENHEIT	LAB	LABORATORY	**S**	
ARCH	ARCHITECT	FA	FIRE ALARM	LAV	LAVATORY	S	SMOKE DETECTOR
@	AT	FACP	FIRE ALARM CONTROL PANEL	LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		FDC	FIRE DEPARTMENT CONNECTION			SCHED	SCHEDULE
B						SECT	SECTION
BD	BOARD			LLH	LONG LEG HORIZONTAL	SIM	SIMILAR
BLDG	BUILDING	FD	FLOOR DRAIN	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION
BO	BOTTOM OF	FEC	FIRE EXTINGUISHER CABINET	LPT	LOW POINT	SS	STAINLESS STEEL
						STD	STANDARD
C		FE	FIRE EXTINGUISHER	**M**		STS	SELF TAPPING SCREW
C	CELSIUS	FG	FINISH GRADE	MACH RM	MACHINE ROOM	STRUCT	STRUCTURAL
CH	COAT HOOK	FHC	FIRE HOSE CABINET	MAX	MAXIMUM		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FIN	FINISH	MFR	MANUFACTURER	**T**	
		FLR	FLOOR	MECH	MECHANICAL	T	TREAD
CG	CORNER GUARD	FND	FOUNDATION	MEZZ	MEZZANINE	TEL	TELEPHONE
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING	MIN	MINIMUM	TEMP	TEMPORARY
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE	MO	MASONRY OPENING	THK	THICK
CL	CENTER LINE	FOM	FACE OF MASONRY			TOC	TOP OF CONCRETE
CLG	CEILING	FOS	FACE OF STUD	**N**		TOM	TOP OF MASONRY
CLO	CLOSET	FOW	FACE OF WALL	NA	NOT APPLICABLE	TOP	TOP OF PARAPET
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM	NIC	NOT IN CONTRACT	TOS	TOP OF SLAB; TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE	NOM	NOMINAL	TOW	TOP OF WALL
COL	COLUMN	FT	FEET	NTS	NOT TO SCALE	TYP	TYPICAL
CONC	CONCRETE	FV	FIELD VERIFY			TO	TOP OF
CONT	CONTINUOUS			**O**			
CORR	CORRIDOR	**G**		OC	ON CENTER	**U**	
CT	CERAMIC TILE	GA	GAUGE	OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	UL	UNDERWRITER'S LABORATORIES
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED			UNO	UNLESS NOTED OTHERWISE
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE	OFD	OVERFLOW DRAIN		
				OH DR	OVERHEAD DOOR	**V**	
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM	OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
D	DEEP			OPP	OPPOSITE	VERT	VERTICAL
DEG	DEGREE	GL	GLASS	ORIG	ORIGINAL	VEST	VESTIBULE
DEMO	DEMOLITION	GWB	GYPSUM WALL BOARD	**P**		VIF	VERIFY IN FIELD
DF	DRINKING FOUNTAIN	GYP	GYPSUM	P LAM	PLASTC LAMINATE		
DIA	DIAMETER			PLAS	PLASTER	**W**	
DIM	DIMENSION	**H**		PLUMB	PLUMBING	W/	WITH
DN	DOWN	H	HIGH	PR	PAIR	W/O	WITHOUT
DS	DOWNSPOUT	HB	HOSE BIBB	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DWGS	DRAWINGS	HDR	HEADER	PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
		HM	HOLLOW METAL	PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
E		HPT	HIGH POINT			WRB	WEATHER RESISTIVE BARRIER
E	EXISTING	HR	HOUR	**Q**			
EA	EACH	HT	HEIGHT	QT	QUARRY TILE	X,Y,Z	NOT USED
EJ	EXPANSION JOINT						
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**		R		THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.	
				R	RISER OR RADIUS		
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION	RAD	RADIUS		
ELEC	ELECTRICAL			RCP	REFLECTED CEILING PLAN		
ELEV	ELEVATOR	IN	INCH	RD	ROOF DRAIN		
EOS	EDGE OF SLAB	INFO	INFORMATION	REF	REFRIGERATOR		
ERD	EXISTING ROOF DRAIN	INT	INTERIOR	REQD	REQUIRED		
EQ	EQUAL			REV	REVISION		

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
COMMODORE SKILLS E.S.
AUGMENT KITCHEN HVAC
STOCKTON USD

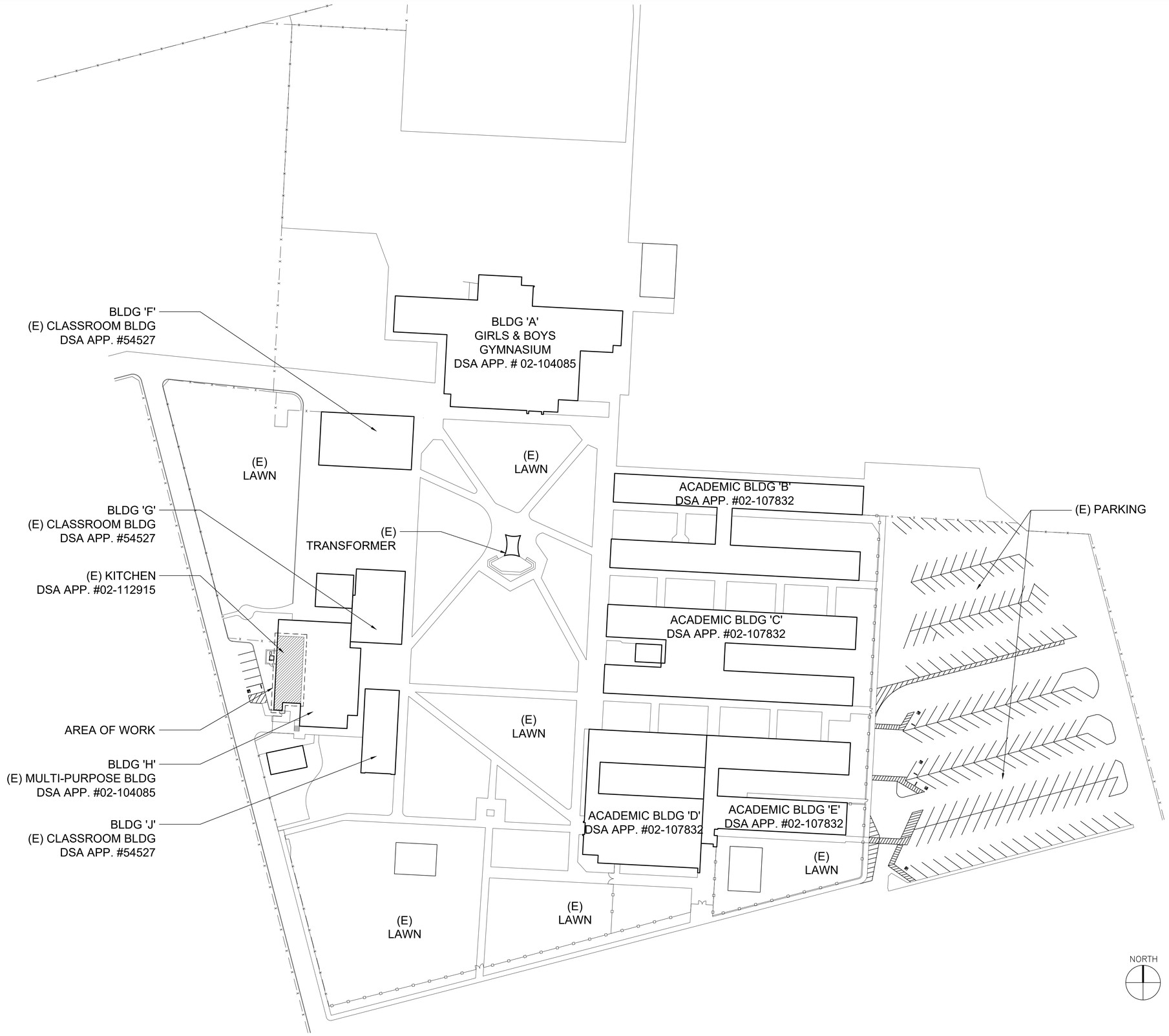
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 50'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
COMMODORE SKILLS E.S.
AUGMENT KITCHEN HVAC
STOCKTON USD

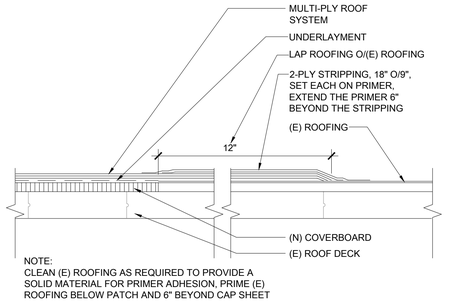
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

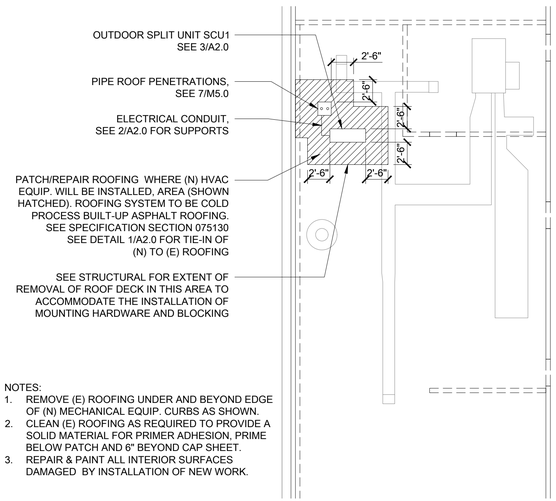
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

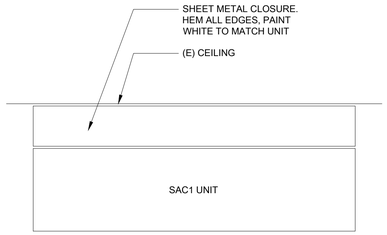
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

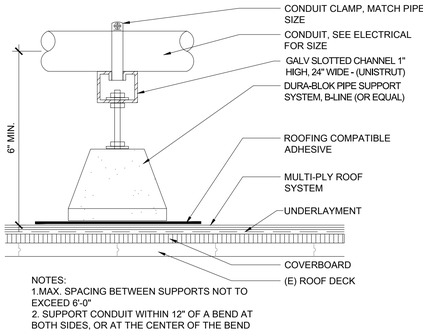
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

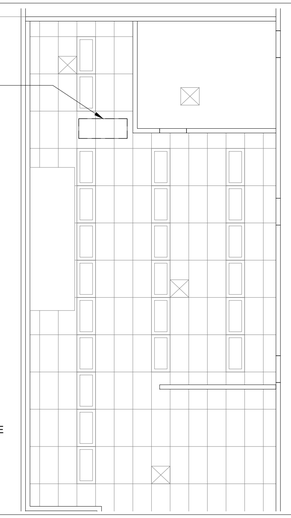
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

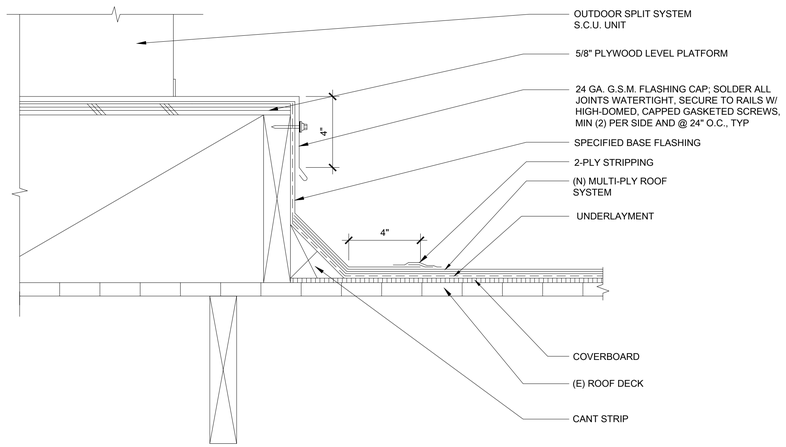
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

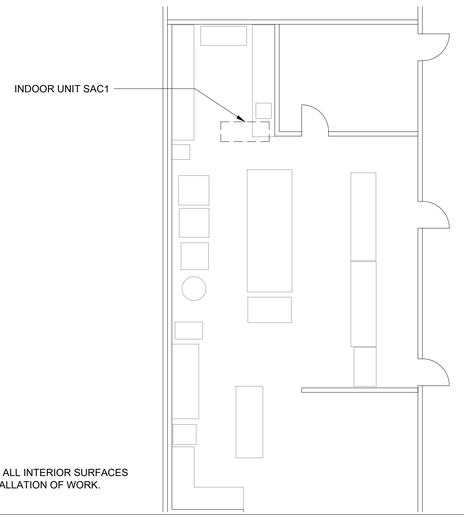
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
COMMODORE SKILLS E.S.
AUGMENT KITCHEN HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PRECAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY		
FOS	FACE OF STUD	SLV	SHORT LEG VERTICAL
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ☒ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. PRIOR TO FABRICATION, SHOP DRAWINGS, SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER ON ALL STRUCTURAL STEEL.
   SHOP DRAWINGS: SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS INTENDED FOR USE. DUPLICATION OF DESIGN DRAWINGS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
6. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
8. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES, IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS
BUILDING LOCATION:
LATITUDE: 37.924 °N
LONGITUDE: -121.302 °W

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .589

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\, a_p\, S_{DS}\, W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE F_p= 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Commodore Skills E.S.
Augment Kitchen HVAC
Stockton USD

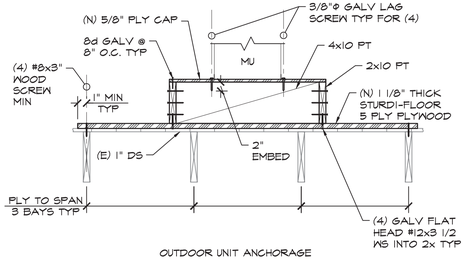
PROJECT #:
2023-075

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

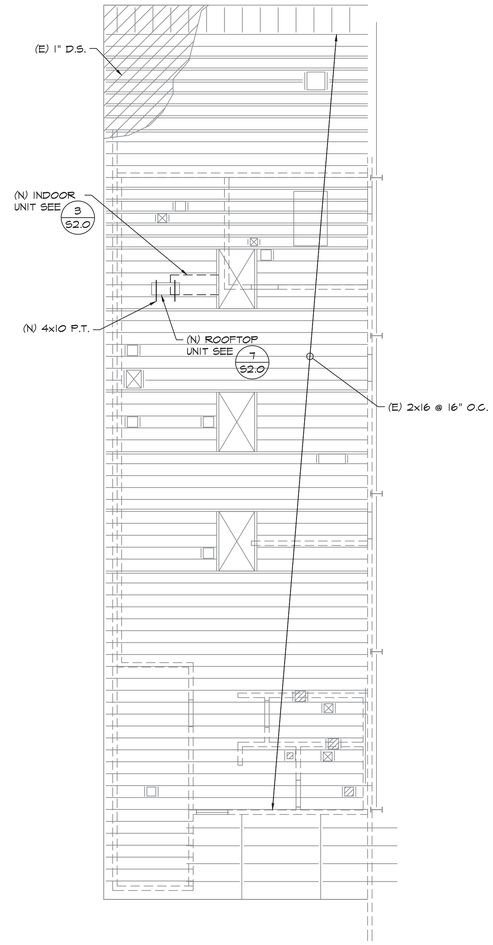
S1.0



OUTDOOR UNIT ANCHORAGE
SECTION (2x FRAMING)
8 / 52.0
3/4" = 1'-0" 022DET008

5 / 52.0 NOT USED
= 1'-0"

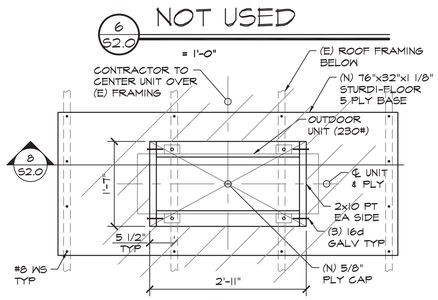
1 / 52.0 NOT USED
= 1'-0"



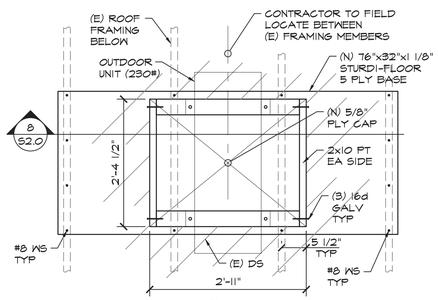
KITCHEN
A / 52.0 ROOF FRAMING PLAN
1/8" = 1'-0"

2 / 52.0 NOT USED
= 1'-0"

6 / 52.0 NOT USED
= 1'-0"

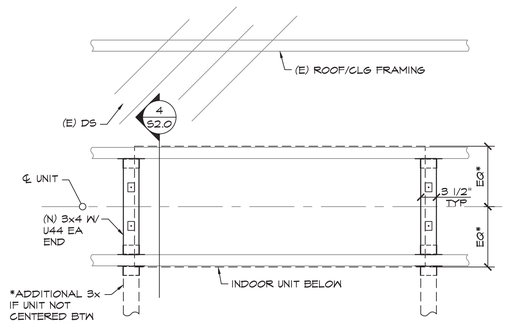


PLAN
FRAMING I

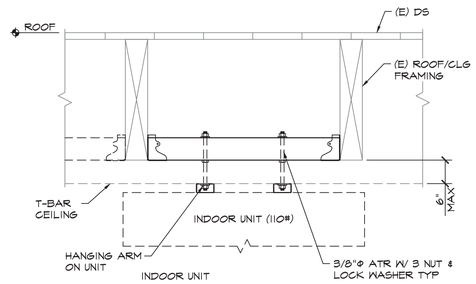


PLAN
FRAMING II

OUTDOOR UNIT ANCHORAGE
7 / 52.0 DETAIL (2x FRAMING)
3/4" = 1'-0" 022DET007_3x_DS



INDOOR UNIT
3 / 52.0 DETAIL
3/4" = 1'-0" 022DET003



INDOOR UNIT
4 / 52.0 DETAIL
1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Commodore Skills E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-075

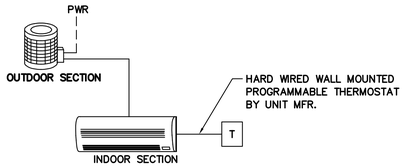
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	MCA	MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	①②③④⑤

NOTES:
① PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
② COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
③ PROVIDE WITH FACTORY WASHABLE FILTERS.
④ PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
⑤ CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M-33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Commodore Skills E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND		AND	Yes	AND		AND		AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C-19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
No. M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Commodore Skills E.S. Augment Kitchen HVAC Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24 COMPLIANCE

M0.2

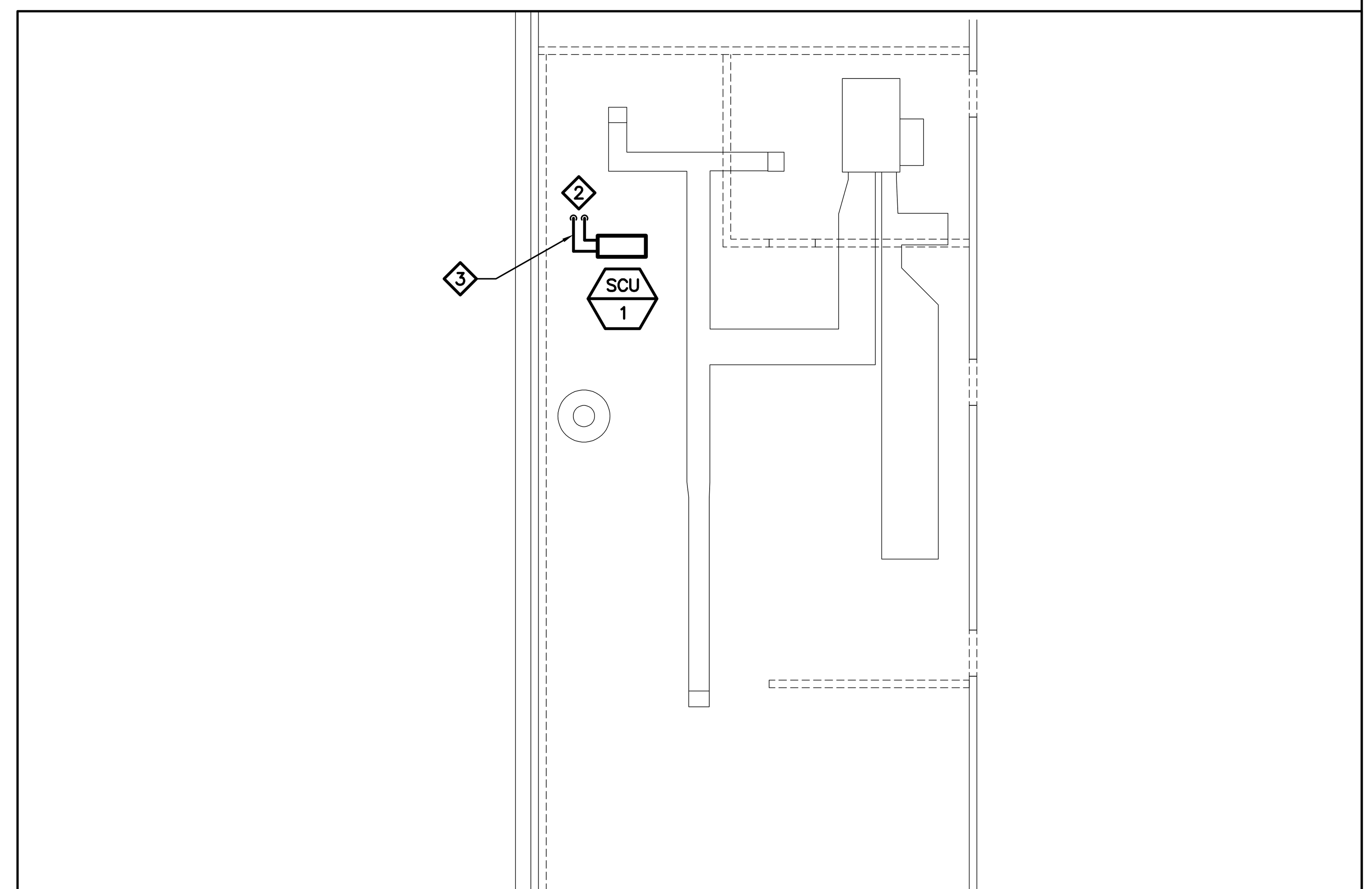
QC	
INI	%

SHEET NOTES:

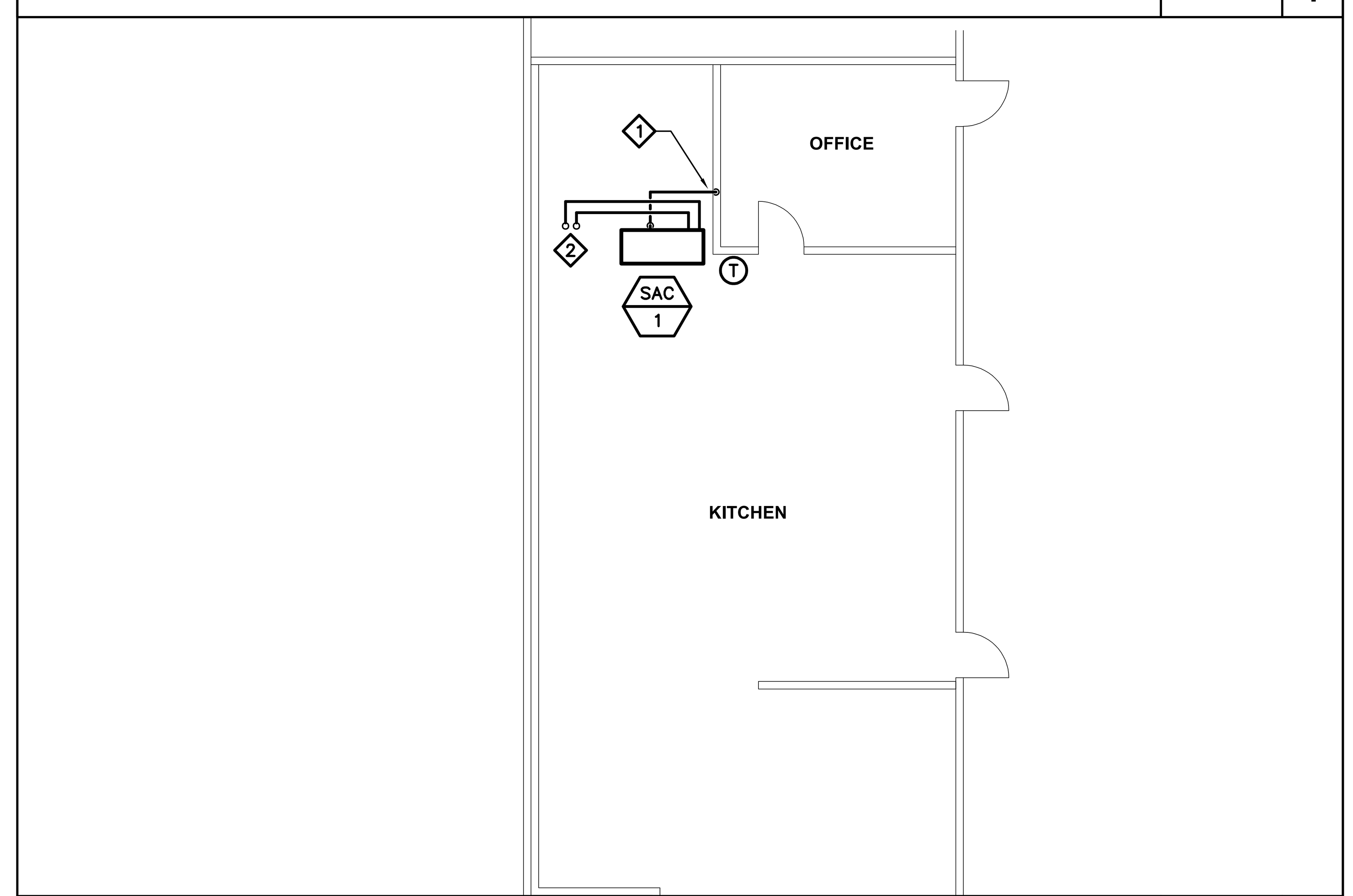
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE T-BAR CEILING AND DOWN THRU WALL. DISCHARGE INTO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN 1/8" = 1'-0" 1



HVAC FLOOR PLAN 1/8" = 1'-0" 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Commodore Skills E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

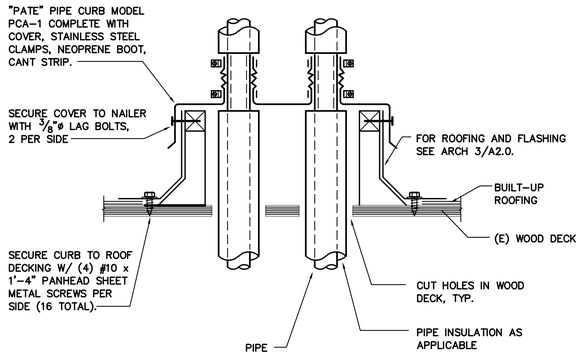
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

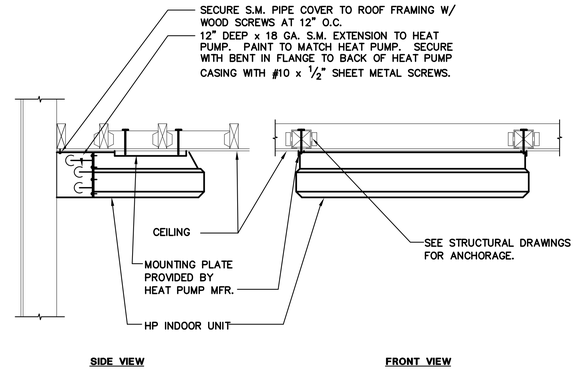
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

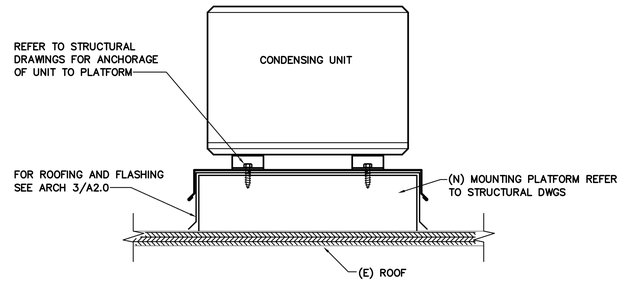
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

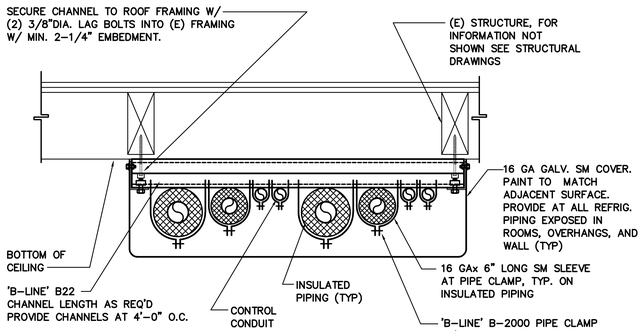
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Commodore Skills E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KLIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Commodore Skills E.S. Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

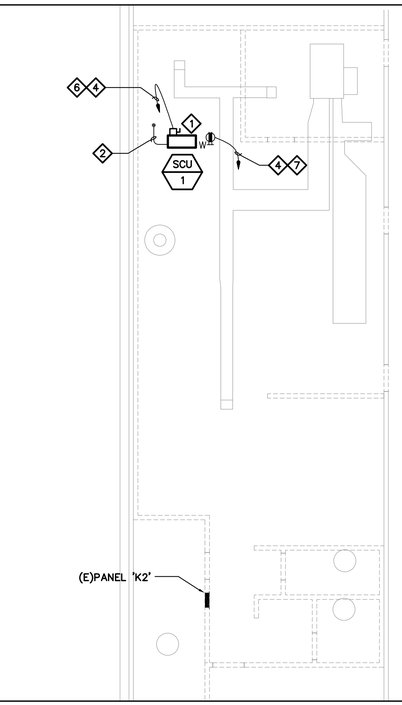
QC
INI	%

SHEET NOTES:

1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'K2'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1. CUT WALL FOR CONDUIT PENETRATION. PATCH, SEAL AND PAINT TO MATCH EXISTING.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND
8. REMOVE AND RELOCATE (E) CEILING DETECTOR 36" AWAY FROM SUPPLY AIR. PROVIDE ALL NECESSARY CONDUIT AND WIRES.
9. REMOVE AND RELOCATE (E) CEILING OCCUPANCY SENSOR 36" AWAY FROM SUPPLY AIR. PROVIDE ALL NECESSARY CONDUIT AND WIRES.



ELECTRICAL ROOF PLAN 1/8" = 1'-0" **1**

ELECTRICAL FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Commodore Skills E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

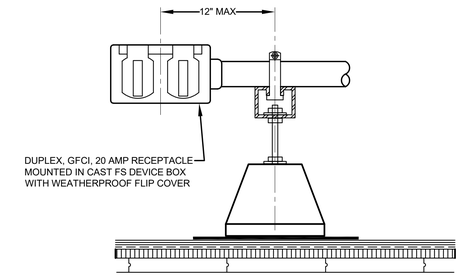
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

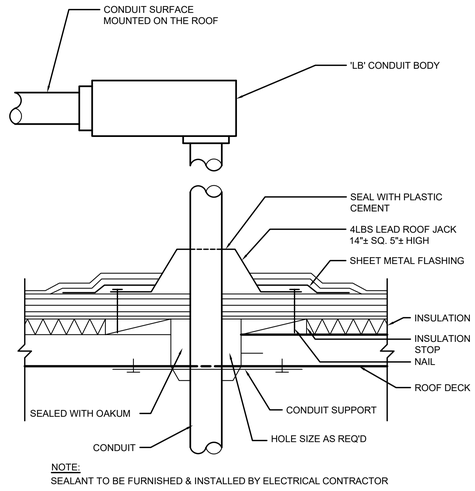


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Commodore Skills E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

EL DORADO AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

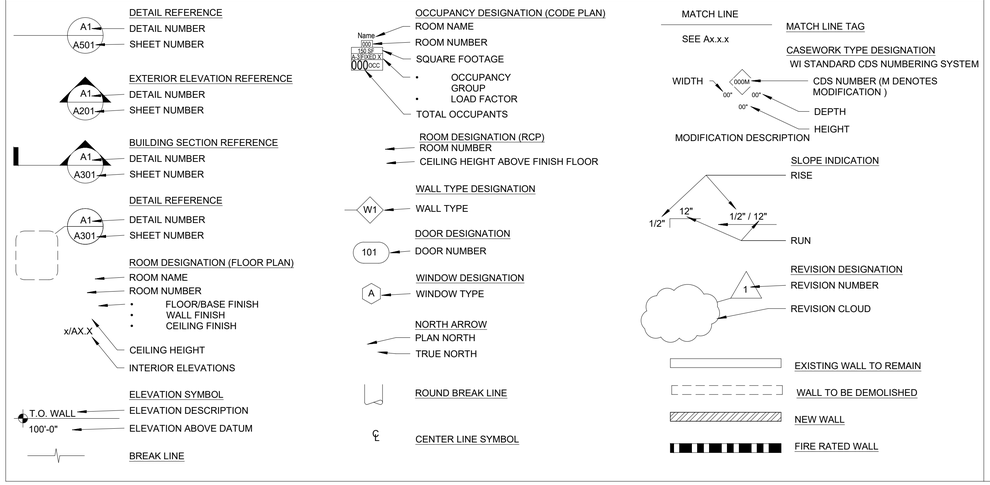
1540 N. Lincoln St, Stockton, CA 95204

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
EL DORADO E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

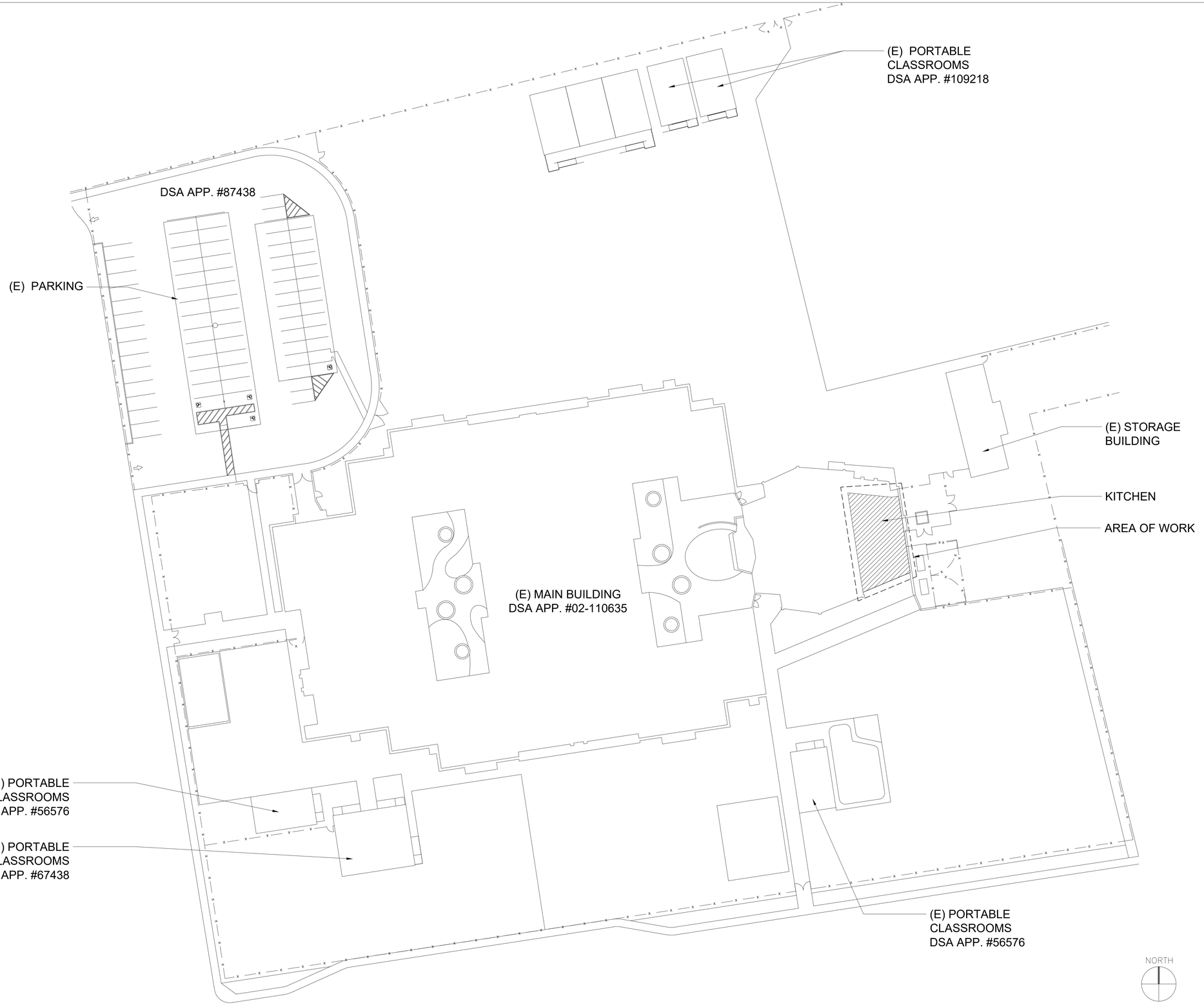
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 30'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
EL DORADO E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

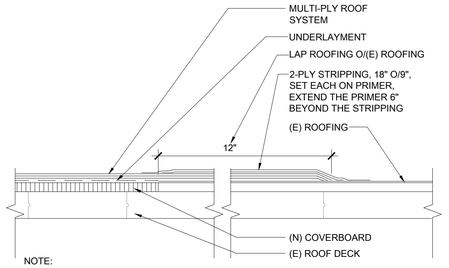
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0



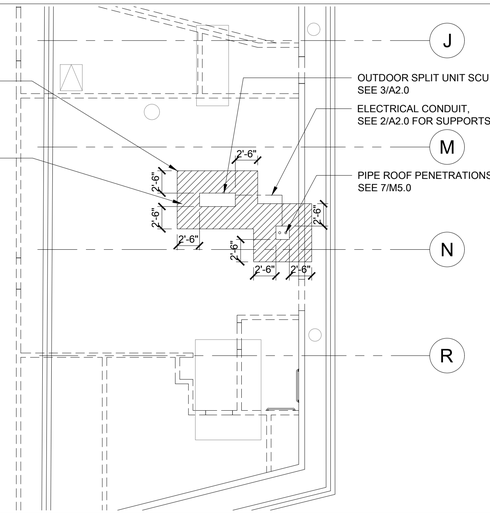
NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

3" = 1'-0" | 1

SEE STRUCTURAL FOR EXTENT OF REMOVAL OF ROOF DECK IN THIS AREA TO ACCOMMODATE THE INSTALLATION OF MOUNTING HARDWARE AND BLOCKING

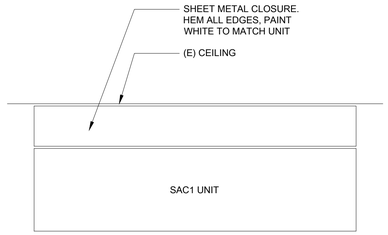
PATCH/REPAIR ROOFING WHERE (N) HVAC EQUIP. WILL BE INSTALLED, AREA (SHOWN HATCHED). ROOFING SYSTEM TO BE COLD PROCESS BUILT-UP ASPHALT ROOFING. SEE SPECIFICATION SECTION 075130
SEE DETAIL 1/A2.0 FOR TIE-IN OF (N) TO (E) ROOFING



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

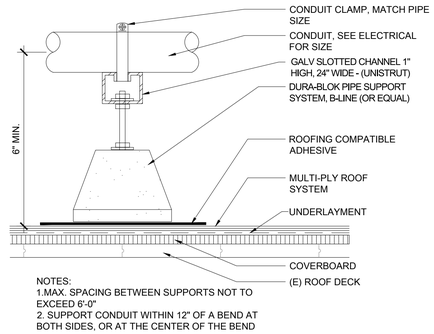
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

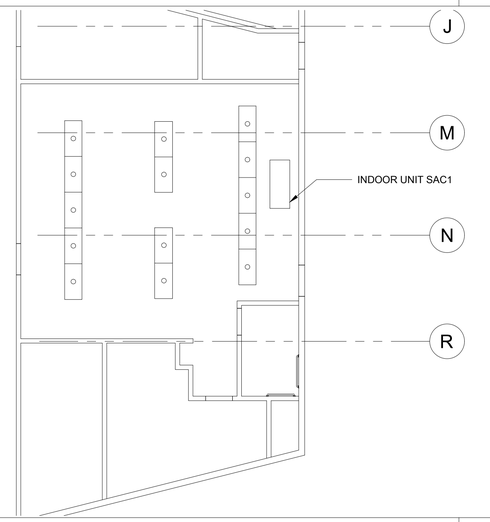
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

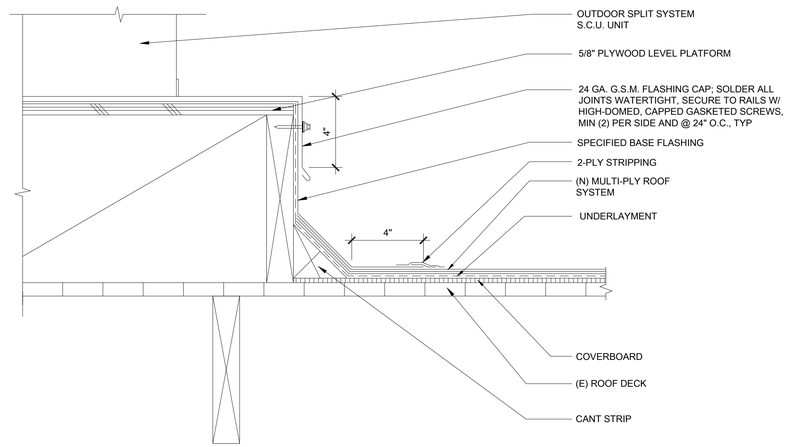
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

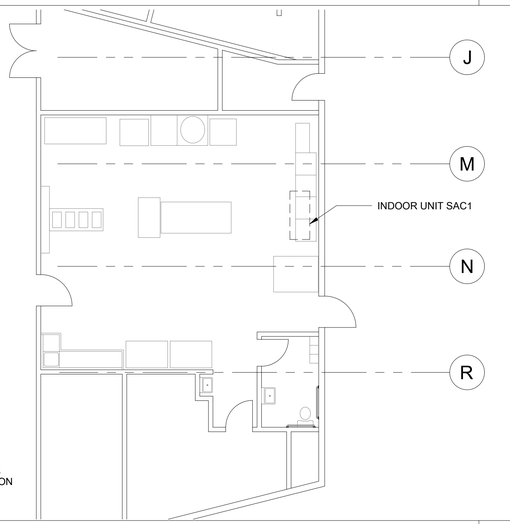
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
EL DORADO E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY		
FOS	FACE OF STUD	SLV	SHORT LEG VERTICAL
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
		TOF	TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
		WWF	WELDED WIRE FABRIC
JT	JACK TRUSS	WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[GD]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
    I JOIST MEMBERS — BA HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    CONTINUOUS — BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
t' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < t' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .592

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE F_p= .029 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-2200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

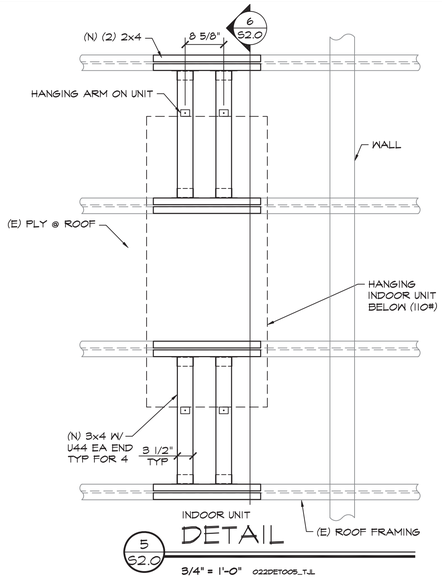
PROJECT #:
2023-020

REVISION #:

DATE:
10/23/2024

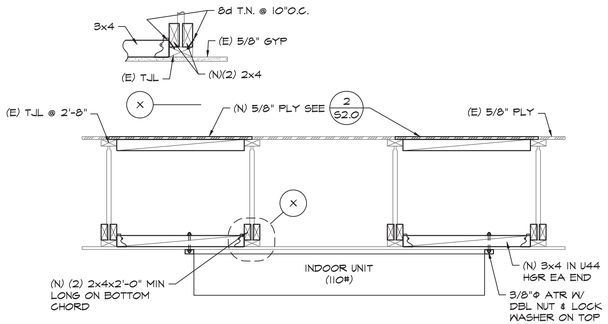
TYPICAL NOTES

S1.0



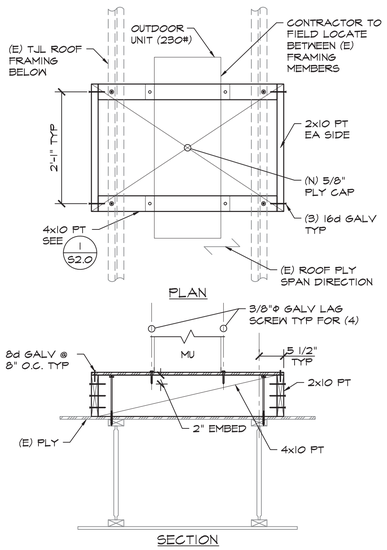
5 S2.0 DETAIL

3/4" = 1'-0" 022DET005_T.JL



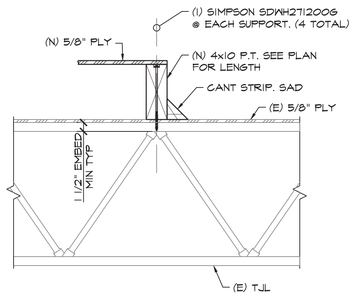
6 S2.0 INDOOR UNIT DETAIL

3/4" = 1'-0" 022DET006_T.JL



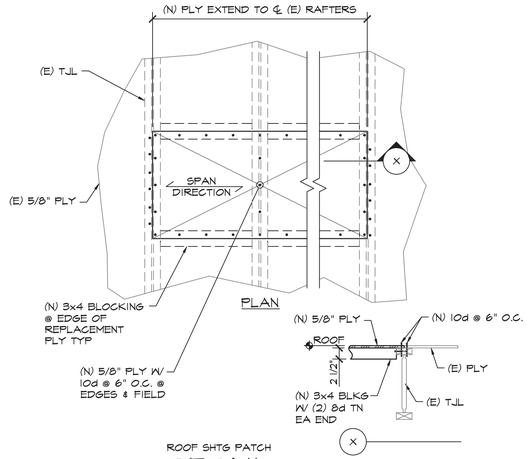
7 S2.0 OUTDOOR UNIT ANCHORAGE DETAIL

3/4" = 1'-0" 022DET007_T.JL



1 S2.0 SLEEPER DETAIL

1" = 1'-0" 022DET001_T.JL



2 S2.0 ROOF SHTG PATCH DETAIL

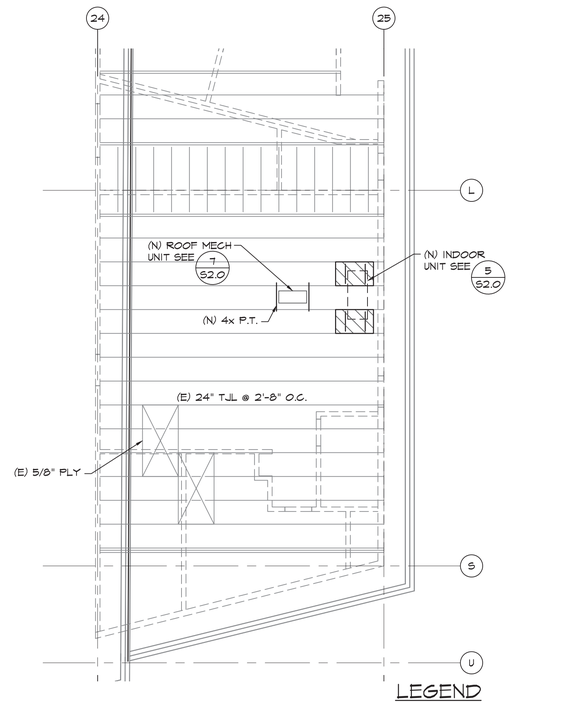
3/4" = 1'-0" 022DET002_T.JL

3 S2.0 NOT USED

= 1'-0"

4 S2.0 NOT USED

= 1'-0"



A S1.0 ROOF FRAMING PLAN

1/8" = 1'-0"

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

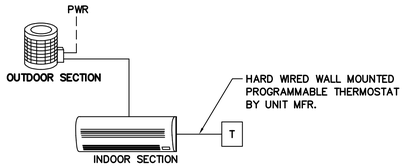
PROJECT #:
2023-020

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KEITH DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
EXP. DAVIS GRUBB
No. C-19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

QC
INI | %

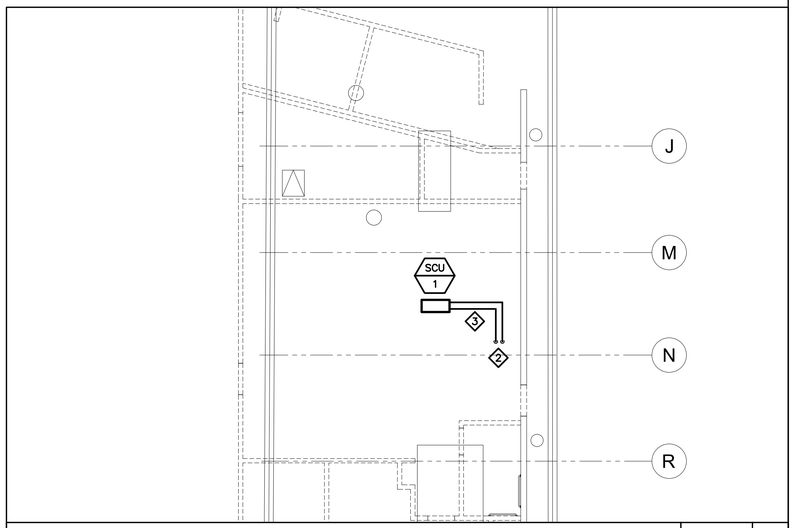
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

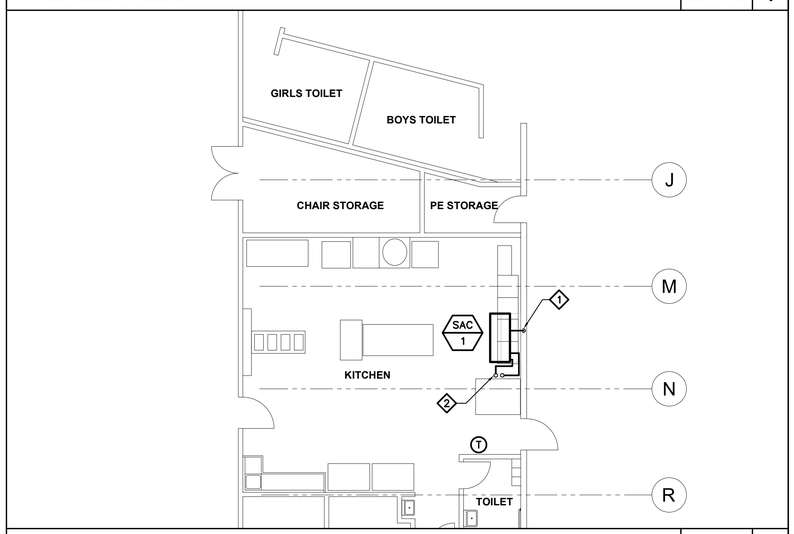
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. ROUTE 3/4" CD DOWN THRU WALL, THEN CONNECT INTO P-TRAP OF (E) 3-COMP SINK. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN — 1/8" = 1'-0" — 1



HVAC FLOOR PLAN — 1/8" = 1'-0" — 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

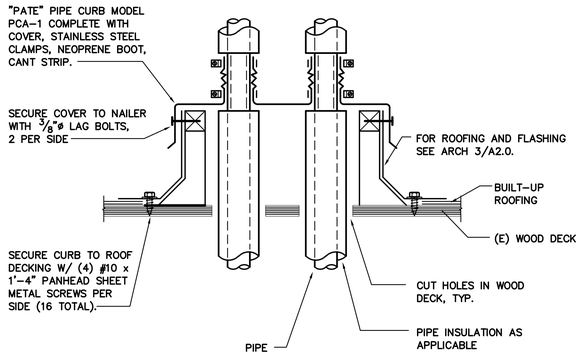
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

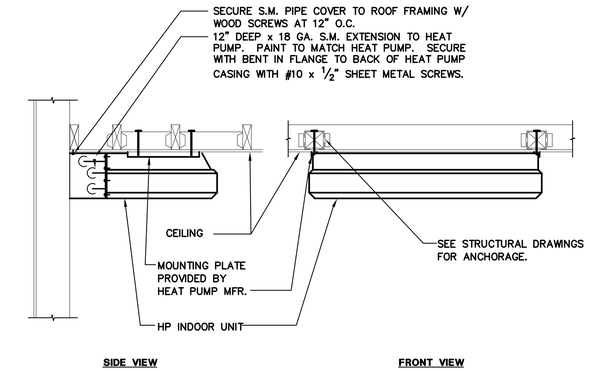
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

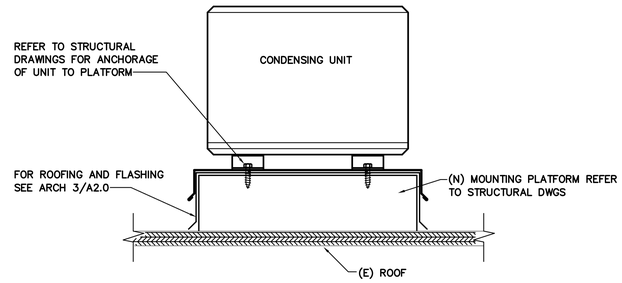
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

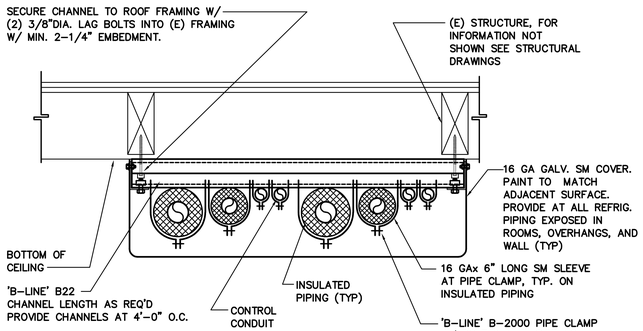
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

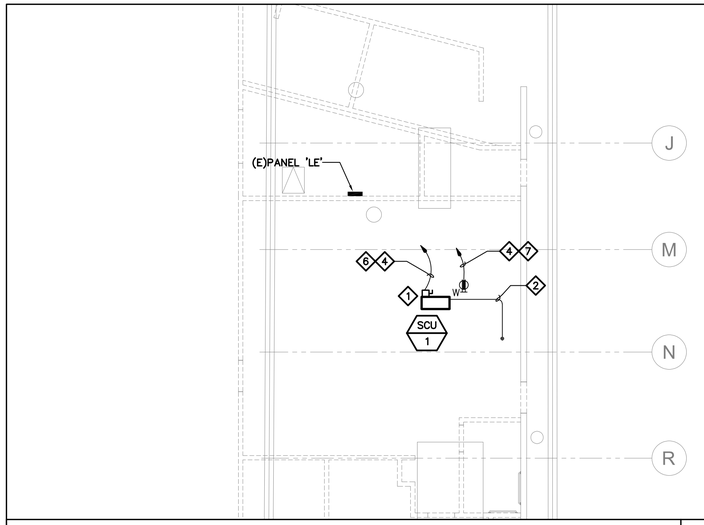
QC	
INI	%

SHEET NOTES:

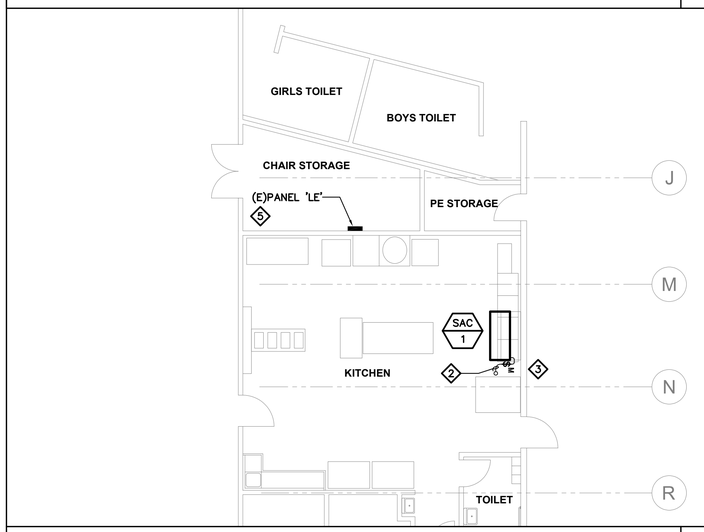
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'LE'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN 1/8" = 1'-0" **1**



ELECTRICAL FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

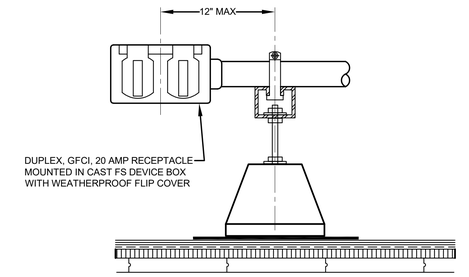
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

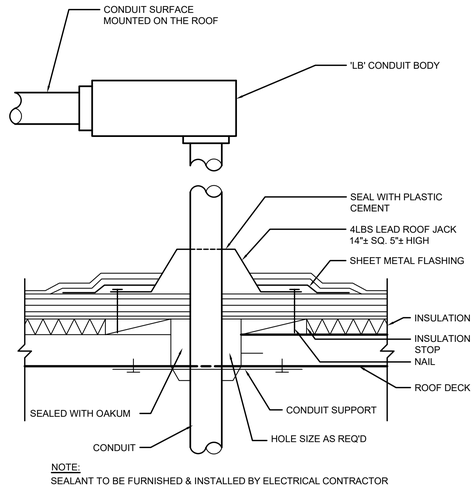


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
EVP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
El Dorado E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

FILLMORE AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

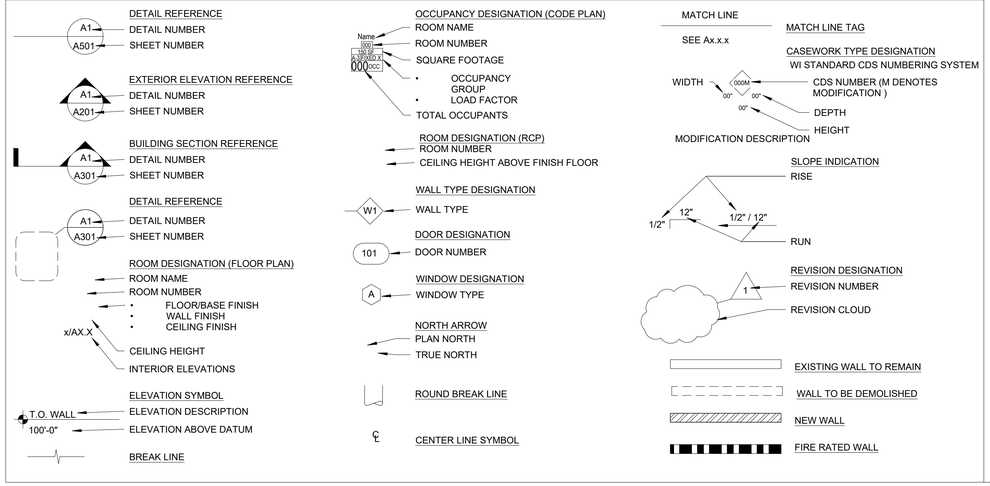
2644 E. Poplar St, Stockton, CA 95205

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
FILLMORE E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

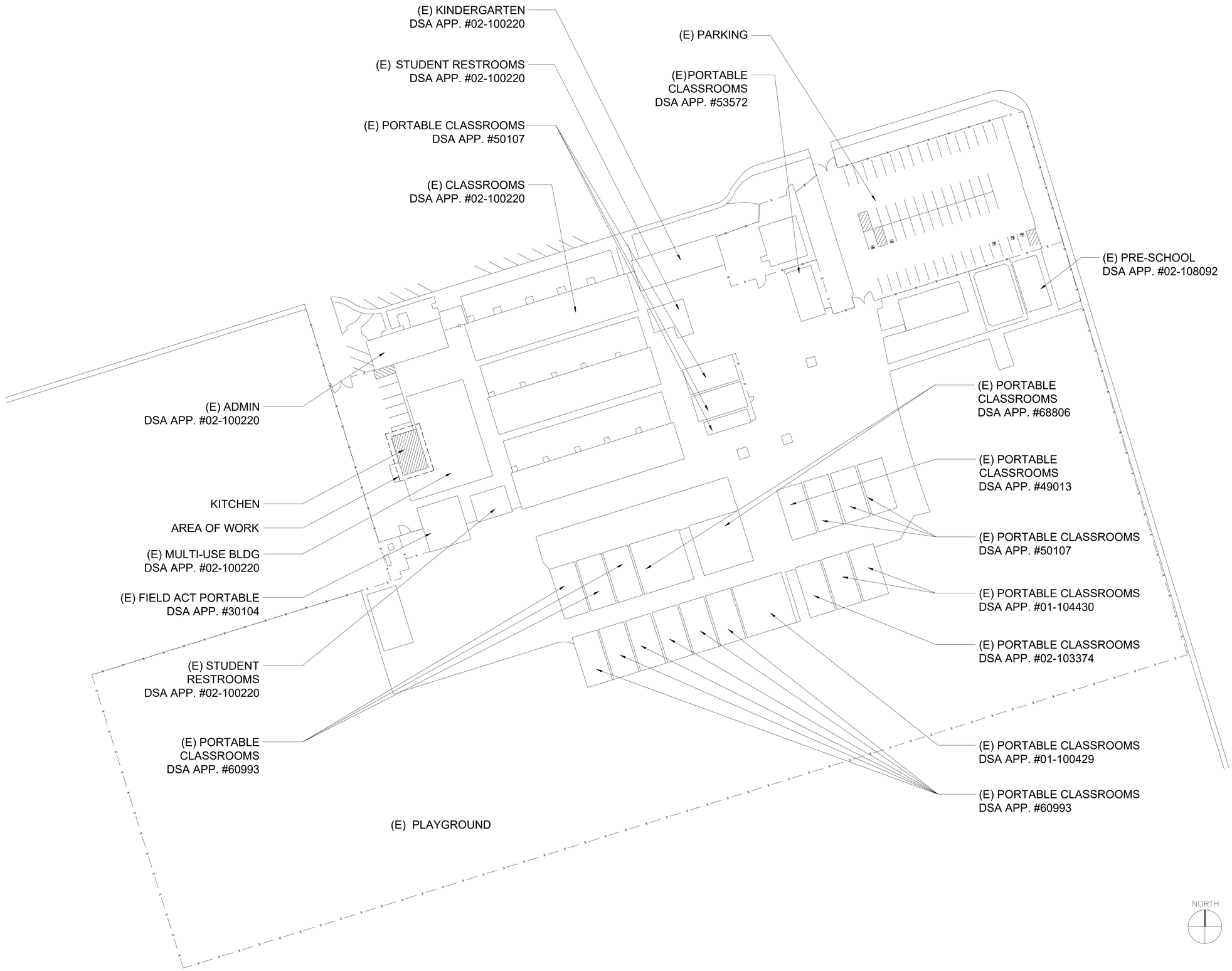
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
FILLMORE E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

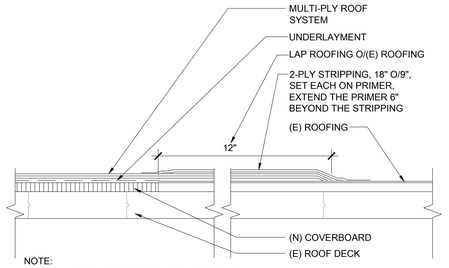
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0

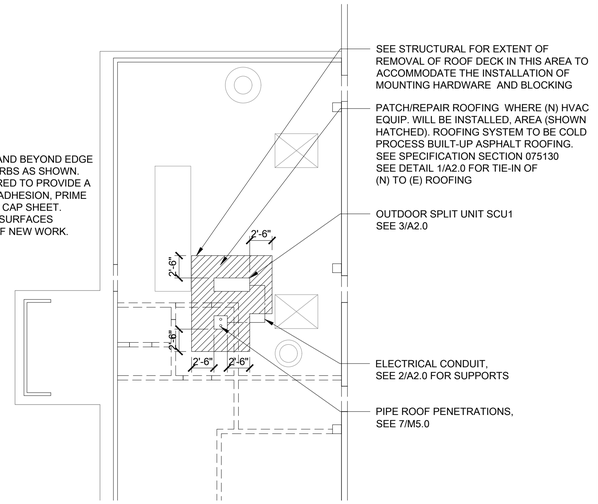


NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

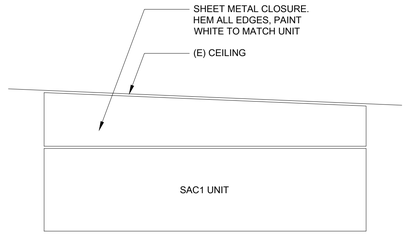
3" = 1'-0" | 1

NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.



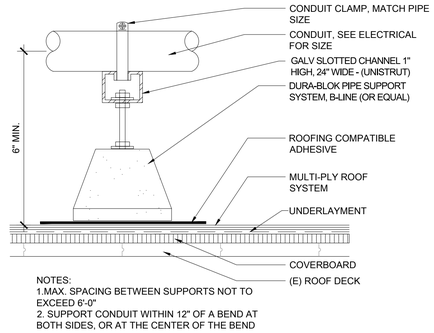
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

NTS | 5

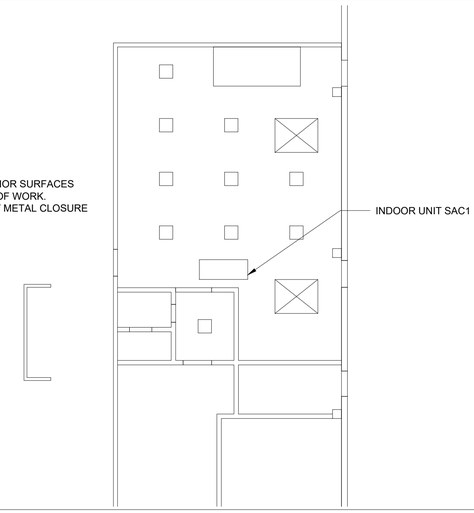


NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

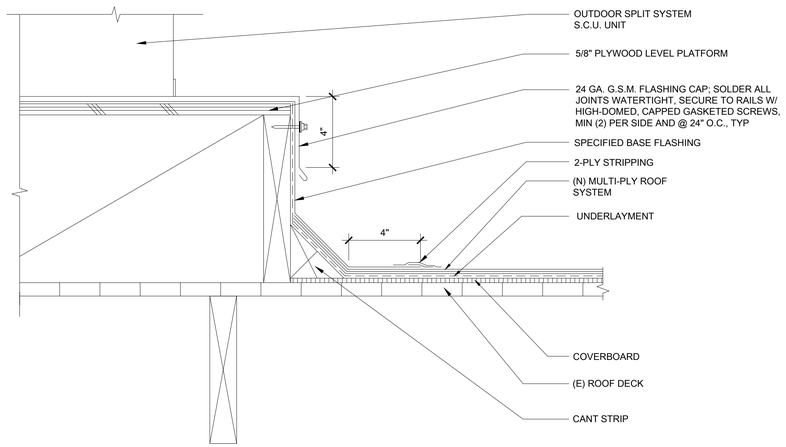
3" = 1'-0" | 2

NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.



KITCHEN REFLECTED CEILING PLAN

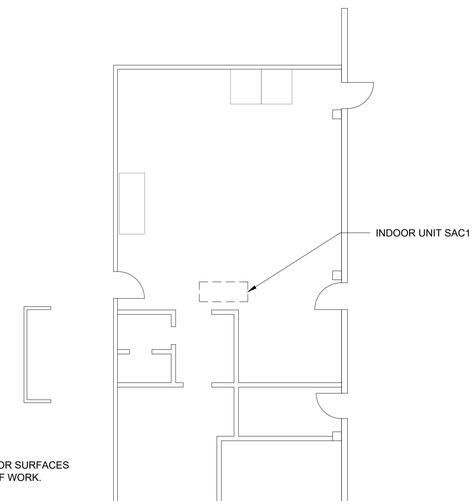
1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3

NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.



KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
FILLMORE E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT
AB	ANCHOR BOLTS
AC	ASPHALTIC CONCRETE
AFF	ABOVE FINISH FLOOR
BN	BOUNDARY NAILING
BEV	BEVELED
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DF	DOUGLAS FIR
(E)	EXISTING
EF	EACH FACE
EW	EACH WAY
EJ	EXPANSION JOINT
EOS	EDGE OF SLAB
EN	EDGE NAILING
ES	EACH SIDE
FA	FRAMING ANCHOR
FD	FLOOR DRAIN
FF	FINISH FLOOR
FLG	FLANGE
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
GLB	GLUE LAMINATED BEAM
GSM	GALVANIZED SHEET METAL
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HDG	HOT DIPPED GALVANIZED
HP	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
ID	INSIDE DIAMETER
JT	JACK TRUSS
LFRS	LATERAL FORCE RESISTING SYTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LS	LAG SCREW
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MU	MECHANICAL UNIT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NSG	NON SHRINK GROUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
OWSG	OPEN WEB STEEL GIRDER
OWSJ	OPEN WEB STEEL JOIST
OH	OPPOSITE HAND
PCC	PRECAST CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED POINT
PW	PLYWOOD
R	RADIUS
SAD	SEE ARCHITECTURAL DRAWINGS
SDST	SELF DRILLING SELF TAPPING
SIM	SIMILAR
SCJ	SLIP CONTROL JOINT
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SS	STAINLESS STEEL
T24	TITLE 24 CALIFORNIA CODE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
T.O. SLAB	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
WS	WATER STOP
WWF	WELDED WIRE FABRIC
WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES, IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .575

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $Fp = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE Fp= .029 Wp

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-033

REVISION #:

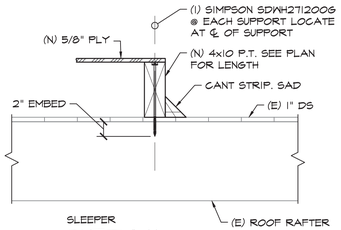
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

S1.0

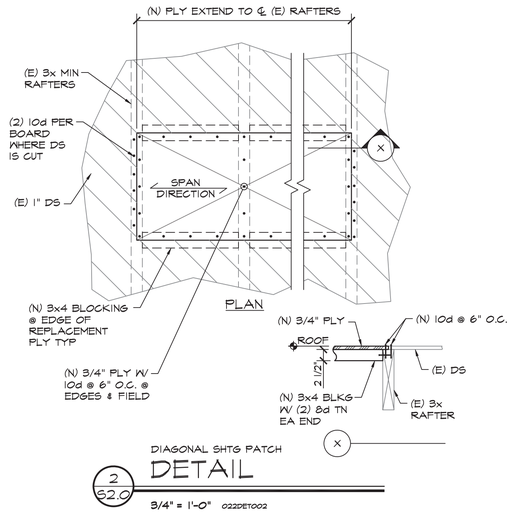
NOT USED

= 1'-0"



DETAIL

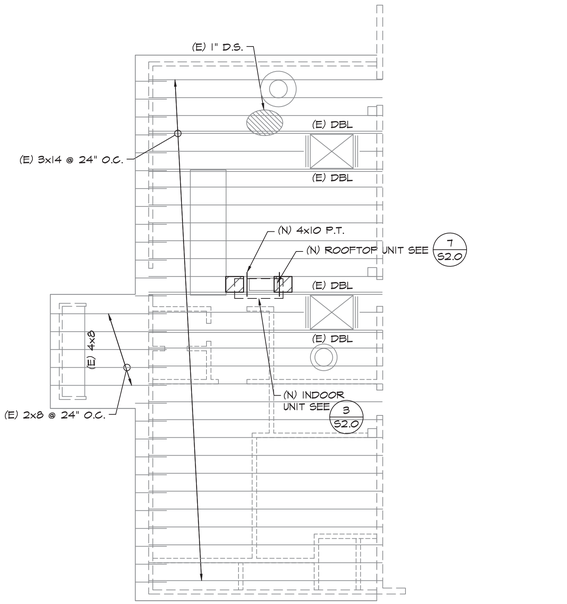
1" = 1'-0" 022DET001



DIAGONAL SHTG PATCH

DETAIL

3/4" = 1'-0" 022DET002



LEGEND

APPROXIMATE EXTENT OF REMOVED DS SEE 2 S2.0

KITCHEN

ROOF FRAMING PLAN

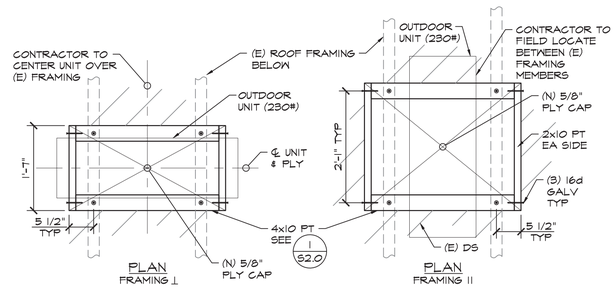
A S2.0

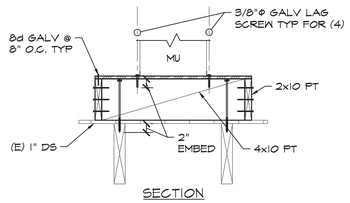
1/8" = 1'-0"

N

NOT USED

= 1'-0"

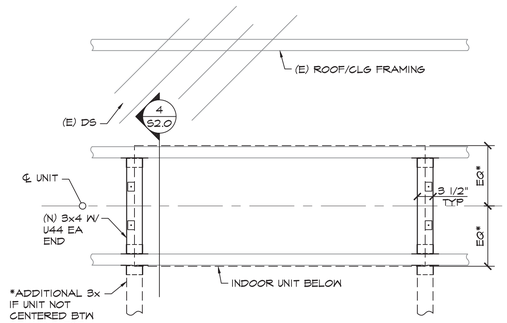




OUTDOOR UNIT ANCHORAGE

DETAIL

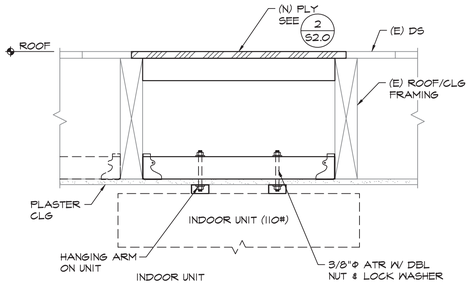
3/4" = 1'-0" 022DET007_9x_DS



INDOOR UNIT

DETAIL

3/4" = 1'-0" 022DET003



INDOOR UNIT

DETAIL

1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER
BRAD J. ROLLINS
2837
STRUCTURAL
STATE OF CALIFORNIA

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

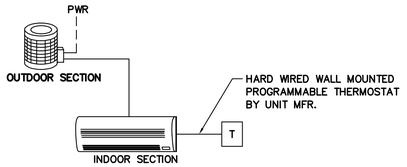
PROJECT #:
2023-033

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	①②③④

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND		AND	Yes	AND		AND		AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

QC	
INI	%

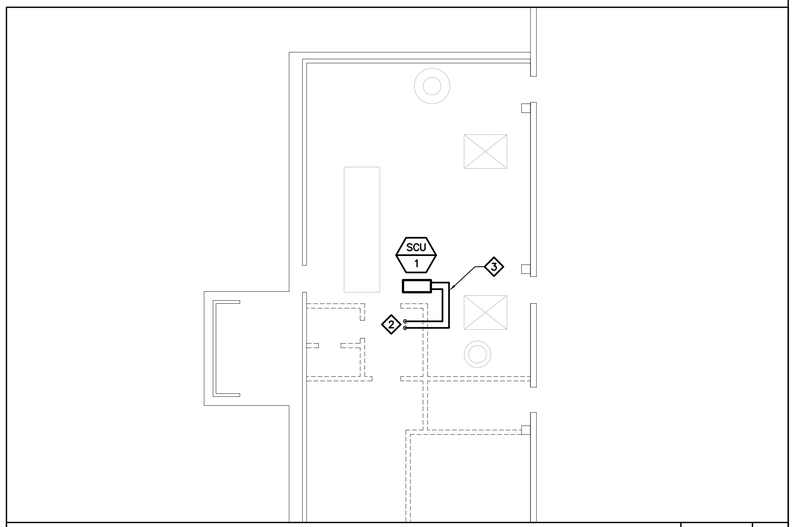
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

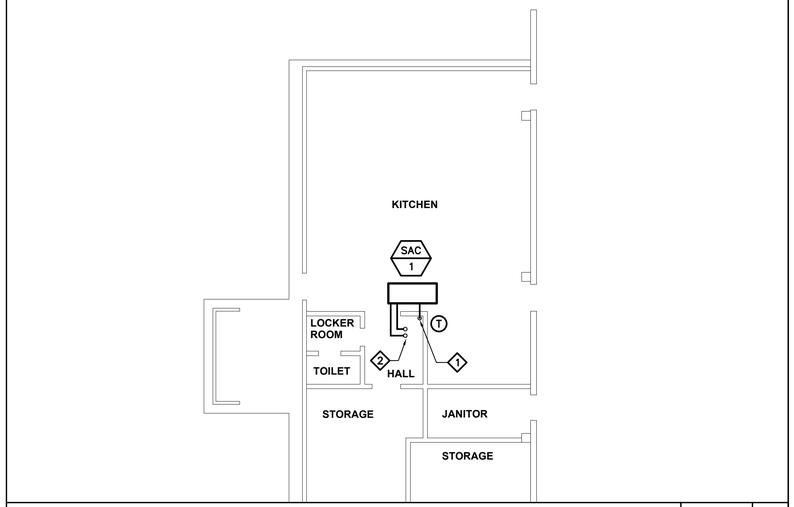
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD(D) ALONG INTERIOR OF WATER HEATER ROOM WALL. OFFSET THRU WALL BELOW SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 35498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

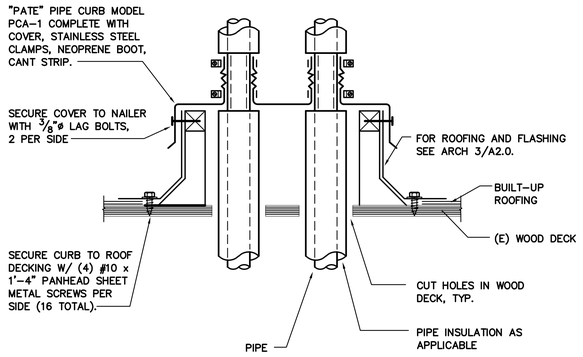
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

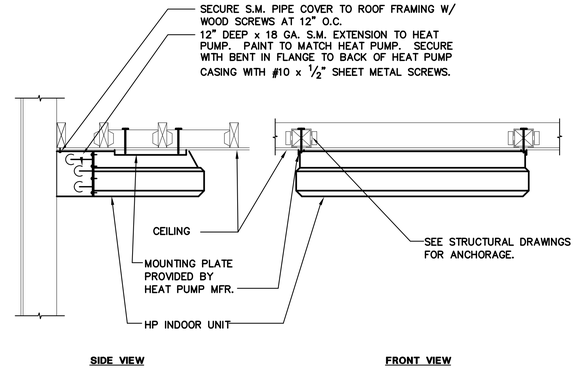
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

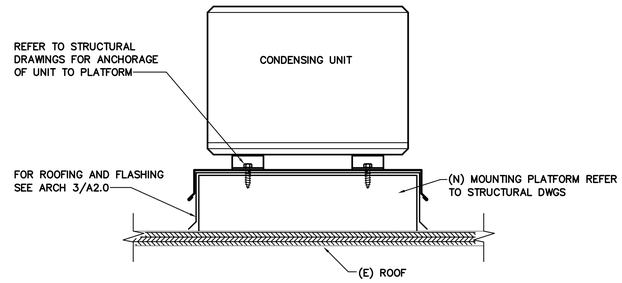
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

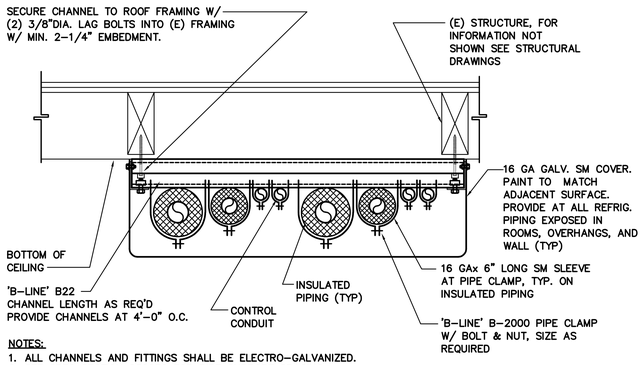
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

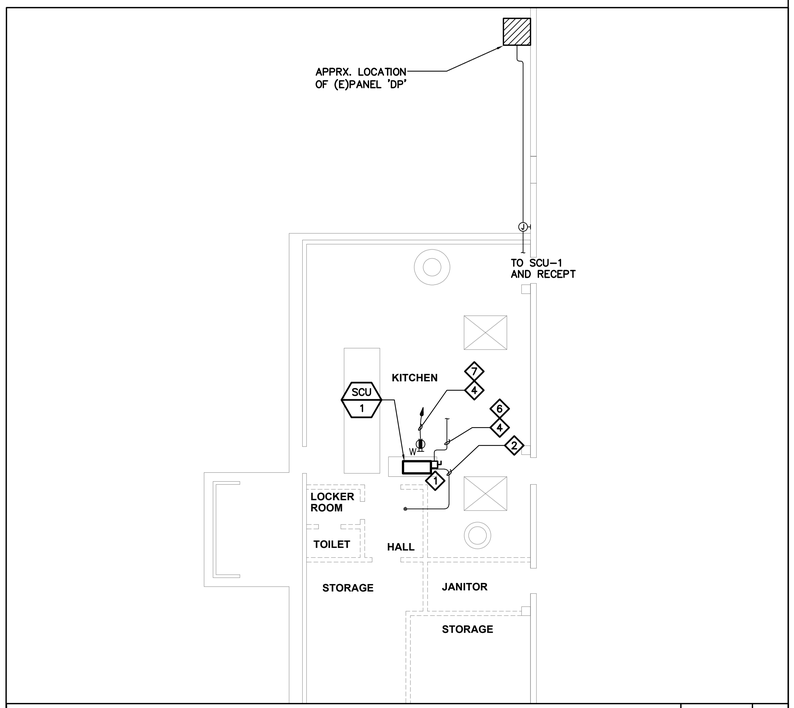
QC
INI | %

SHEET NOTES:

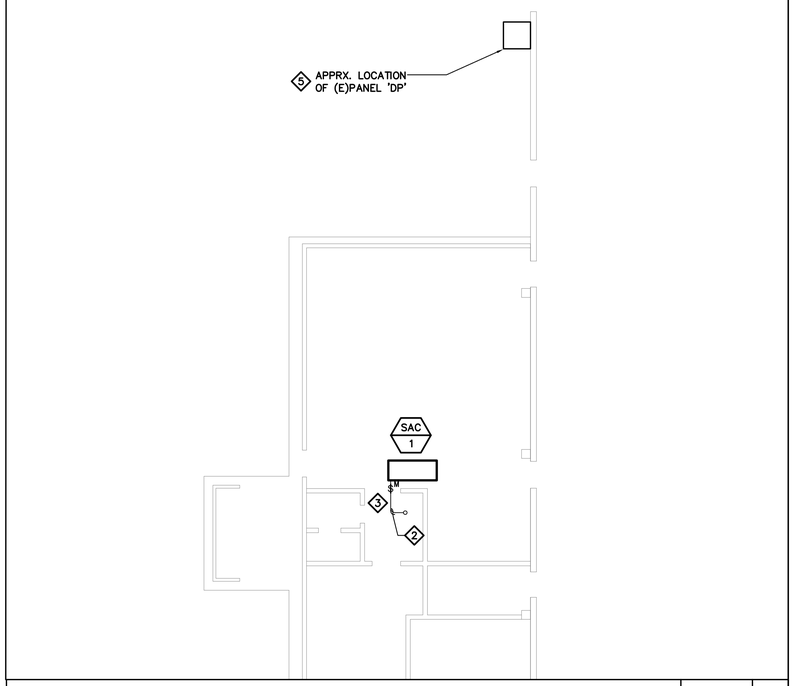
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE JUNCTION BOX SURFACE MOUNTED HIGH ON THE WALL. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING HIGH ON THE WALL, THEN ELLED DOWN TO PANEL 'DP'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 1



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

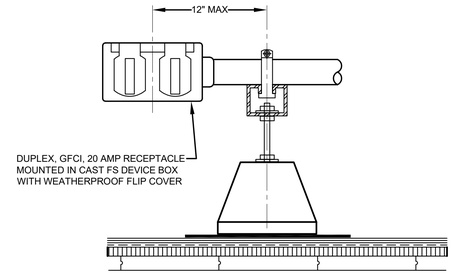
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%
---	---

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

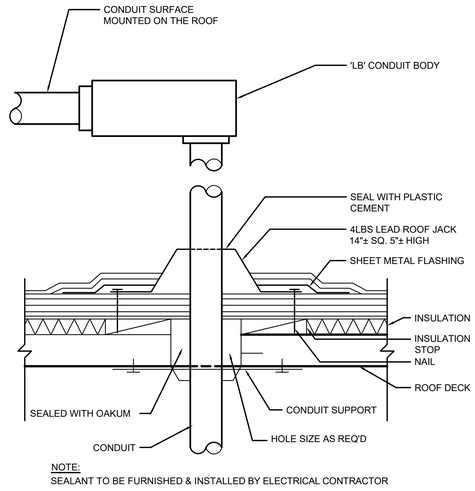


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California

JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Fillmore E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

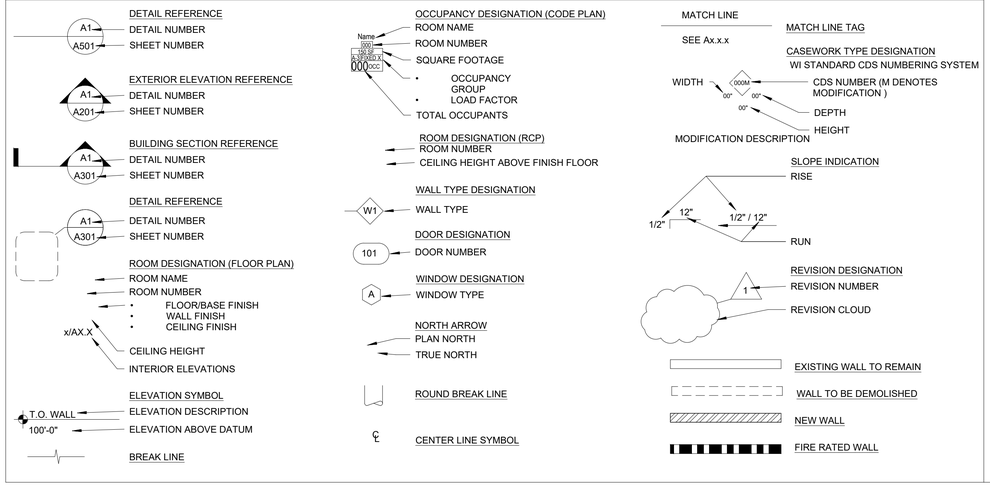
HAMILTON AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

2245 Eleventh St, Stockton, CA 95206

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT	**J**		RH	RELATIVE HUMIDITY
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER	JAN	JANITOR	RM	ROOM
AD	AREA DRAIN	EXP	EXPOSED			RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR	**K**	(NOT USED)	RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT					RWL	RAIN WATER LEADER
ALUM	ALUMINUM	**F**		**L**			
ANOD	ANODIZED	F	FAHRENHEIT	LAB	LABORATORY	**S**	
ARCH	ARCHITECT	FA	FIRE ALARM	LAV	LAVATORY	S	SMOKE DETECTOR
@	AT	FACP	FIRE ALARM CONTROL PANEL	LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		FDC	FIRE DEPARTMENT CONNECTION			SCHED	SCHEDULE
B						SECT	SECTION
BD	BOARD			LLH	LONG LEG HORIZONTAL	SIM	SIMILAR
BLDG	BUILDING	FD	FLOOR DRAIN	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION
BO	BOTTOM OF	FEC	FIRE EXTINGUISHER CABINET	LPT	LOW POINT	SS	STAINLESS STEEL
						STD	STANDARD
C		FE	FIRE EXTINGUISHER	**M**		STS	SELF TAPPING SCREW
C	CELSIUS	FG	FINISH GRADE	MACH RM	MACHINE ROOM	STRUCT	STRUCTURAL
CH	COAT HOOK	FHC	FIRE HOSE CABINET	MAX	MAXIMUM		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FIN	FINISH	MFR	MANUFACTURER	**T**	
		FLR	FLOOR	MECH	MECHANICAL	T	TREAD
CG	CORNER GUARD	FND	FOUNDATION	MEZZ	MEZZANINE	TEL	TELEPHONE
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING	MIN	MINIMUM	TEMP	TEMPORARY
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE	MO	MASONRY OPENING	THK	THICK
CL	CENTER LINE	FOM	FACE OF MASONRY			TOC	TOP OF CONCRETE
CLG	CEILING	FOS	FACE OF STUD	**N**		TOM	TOP OF MASONRY
CLO	CLOSET	FOW	FACE OF WALL	NA	NOT APPLICABLE	TOP	TOP OF PARAPET
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM	NIC	NOT IN CONTRACT	TOS	TOP OF SLAB; TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE	NOM	NOMINAL	TOW	TOP OF WALL
COL	COLUMN	FT	FEET	NTS	NOT TO SCALE	TYP	TYPICAL
CONC	CONCRETE	FV	FIELD VERIFY			TO	TOP OF
CONT	CONTINUOUS			**O**			
CORR	CORRIDOR	**G**		OC	ON CENTER	**U**	
CT	CERAMIC TILE	GA	GAUGE	OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	UL	UNDERWRITER'S LABORATORIES
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED			UNO	UNLESS NOTED OTHERWISE
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE	OFD	OVERFLOW DRAIN		
				OH DR	OVERHEAD DOOR	**V**	
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM	OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
D	DEEP			OPP	OPPOSITE	VERT	VERTICAL
DEG	DEGREE	GL	GLASS	ORIG	ORIGINAL	VEST	VESTIBULE
DEMO	DEMOLITION	GWB	GYPSUM WALL BOARD	**P**		VIF	VERIFY IN FIELD
DF	DRINKING FOUNTAIN	GYP	GYPSUM	P LAM	PLASTC LAMINATE		
DIA	DIAMETER			PLAS	PLASTER	**W**	
DIM	DIMENSION	**H**		PLUMB	PLUMBING	W/	WITH
DN	DOWN	H	HIGH	PR	PAIR	W/O	WITHOUT
DS	DOWNSPOUT	HB	HOSE BIBB	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DWGS	DRAWINGS	HDR	HEADER	PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
		HM	HOLLOW METAL	PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
E		HPT	HIGH POINT			WRB	WEATHER RESISTIVE BARRIER
E	EXISTING	HR	HOUR	**Q**			
EA	EACH	HT	HEIGHT	QT	QUARRY TILE	X,Y,Z	NOT USED
EJ	EXPANSION JOINT						
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**		R		THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.	
		ID	INSIDE DIAMETER; INSIDE DIMENSION	R	RISER OR RADIUS		
EL	ELEVATION			RAD	RADIUS		
ELEC	ELECTRICAL	IN	INCH	RCP	REFLECTED CEILING PLAN		
ELEV	ELEVATOR	INFO	INFORMATION	RD	ROOF DRAIN		
EOS	EDGE OF SLAB	INT	INTERIOR	REF	REFRIGERATOR		
ERD	EXISTING ROOF DRAIN			REQD	REQUIRED		
EQ	EQUAL			REV	REVISION		

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HAMILTON E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

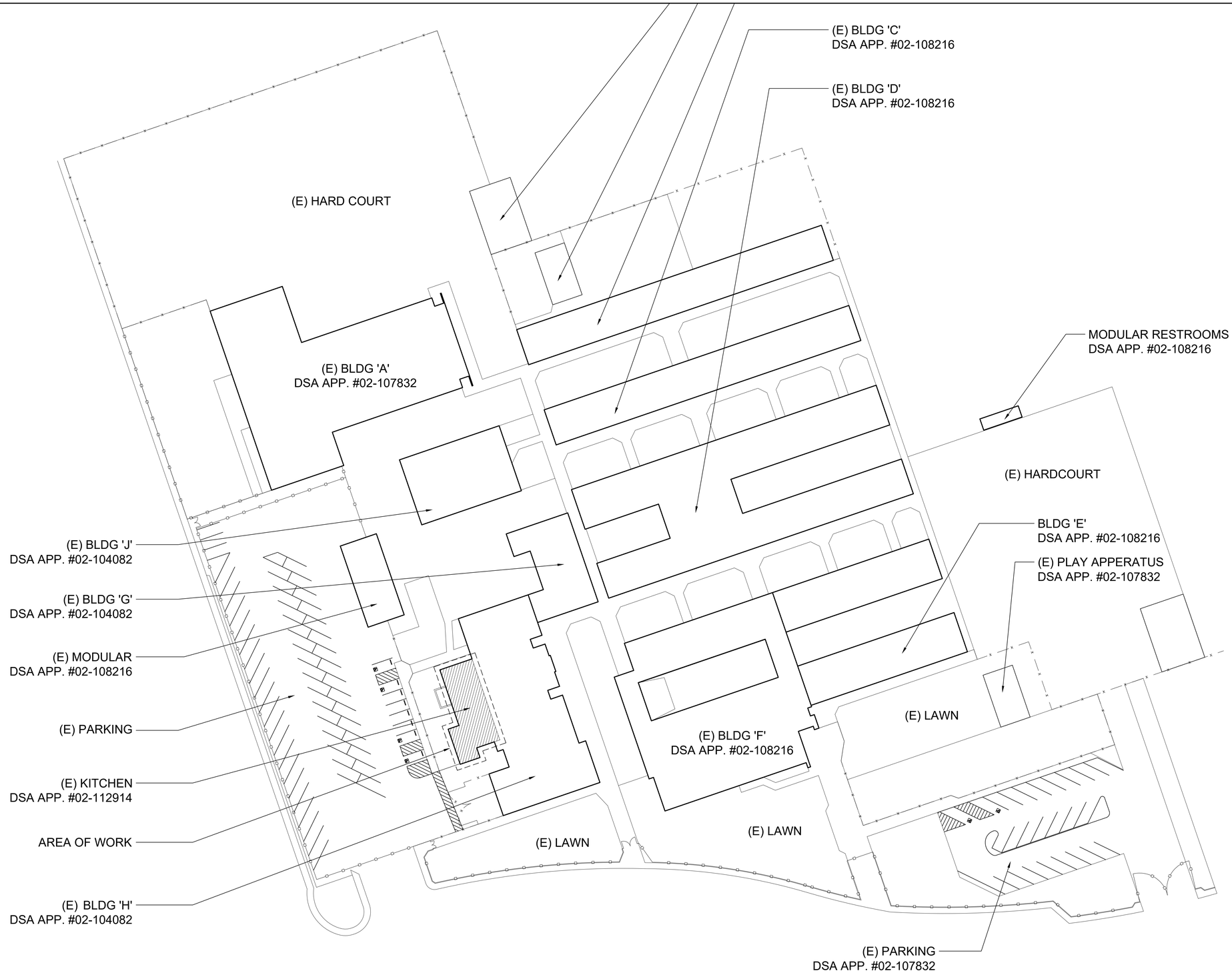
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HAMILTON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

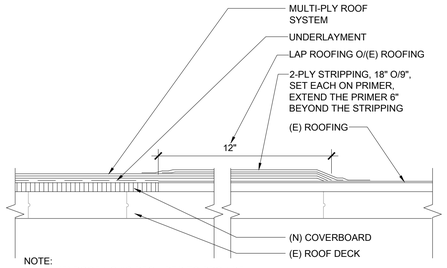
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

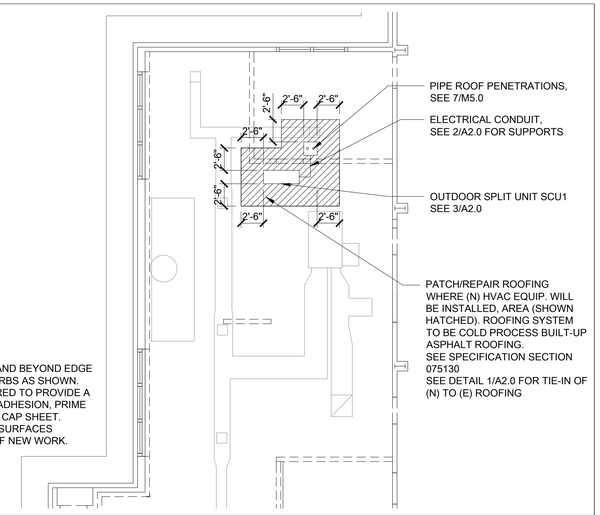
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

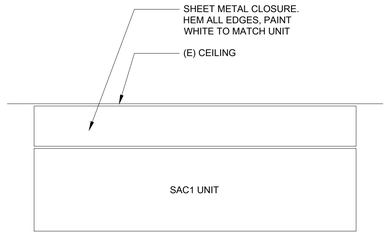
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

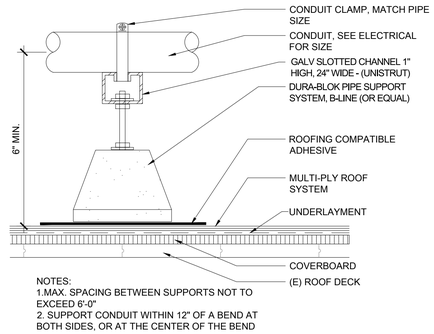
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

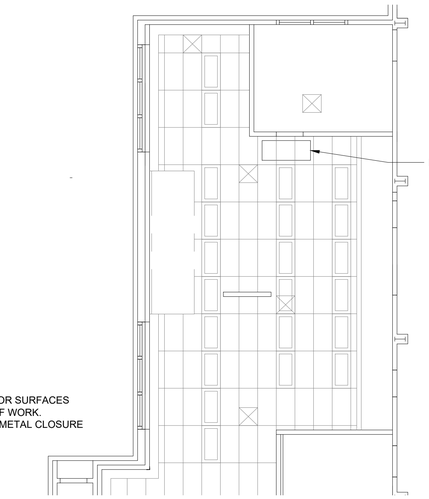
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

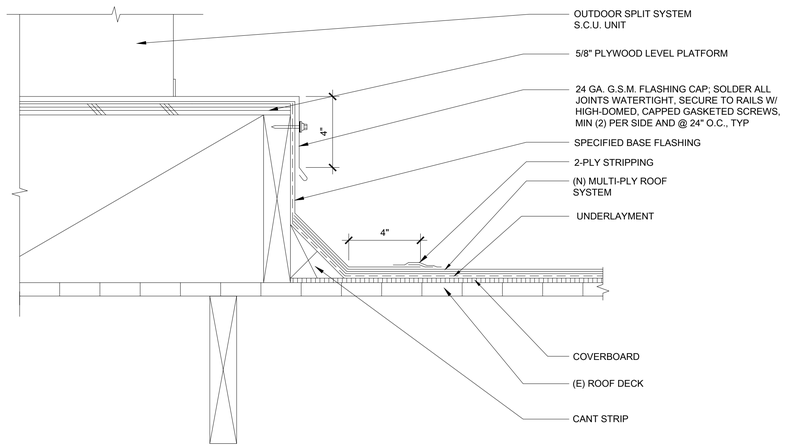
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

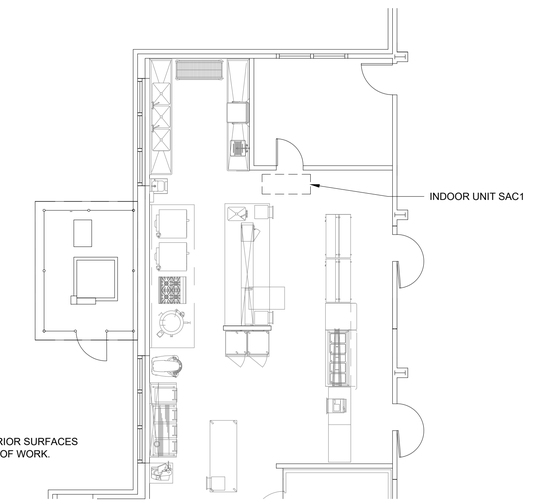
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HAMILTON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
BEV	BEVELED	LT WT	LIGHT WEIGHT
BOC	BOTTOM OF CONCRETE	LVL	LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL
   - MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' < 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .609

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p = 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

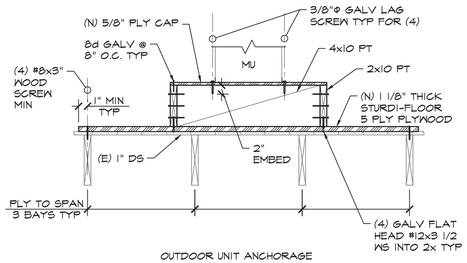
PROJECT #:
2023-069

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

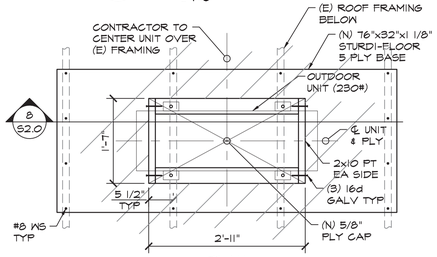
S1.0



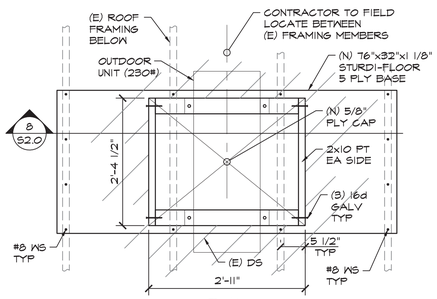
OUTDOOR UNIT ANCHORAGE
SECTION (2x FRAMING)
B / S2.0
3/4" = 1'-0" 022DET008

NOT USED
5 / S2.0
= 1'-0"

NOT USED
6 / S2.0
= 1'-0"



PLAN
FRAMING ⊥

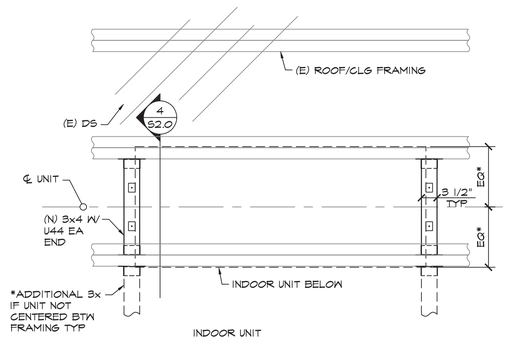


PLAN
FRAMING II

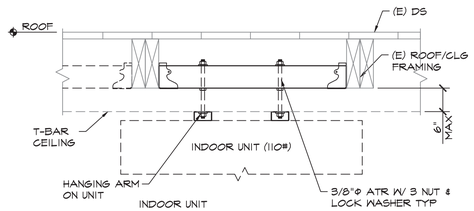
OUTDOOR UNIT ANCHORAGE
DETAIL (2x FRAMING)
7 / S2.0
3/4" = 1'-0" 022DET007_3x_DS

NOT USED
1 / S2.0
= 1'-0"

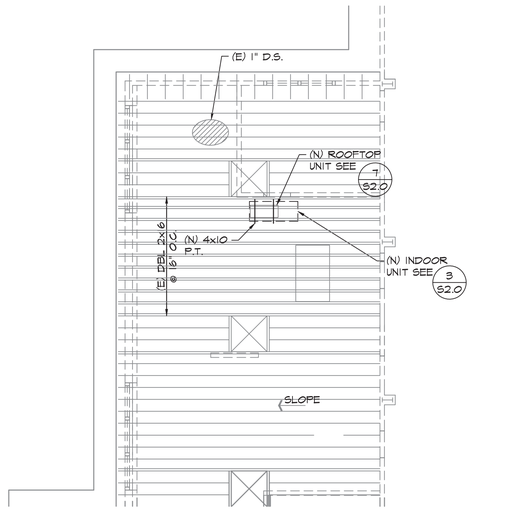
NOT USED
2 / S2.0
= 1'-0"



INDOOR UNIT
DETAIL
3 / S2.0
3/4" = 1'-0" 022DET003



INDOOR UNIT
DETAIL
4 / S2.0
1 1/2"= 1'-0" 022DET004



KITCHEN
ROOF FRAMING PLAN
A / S2.0
1/8" = 1'-0"
N

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-069

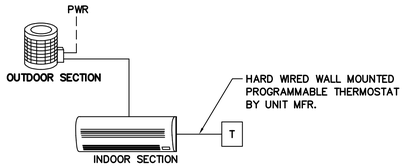
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	MCA	MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	1 2 3 4 5

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(j) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]		Cooling Output[2,3]		Load Calculations[3,4]		
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

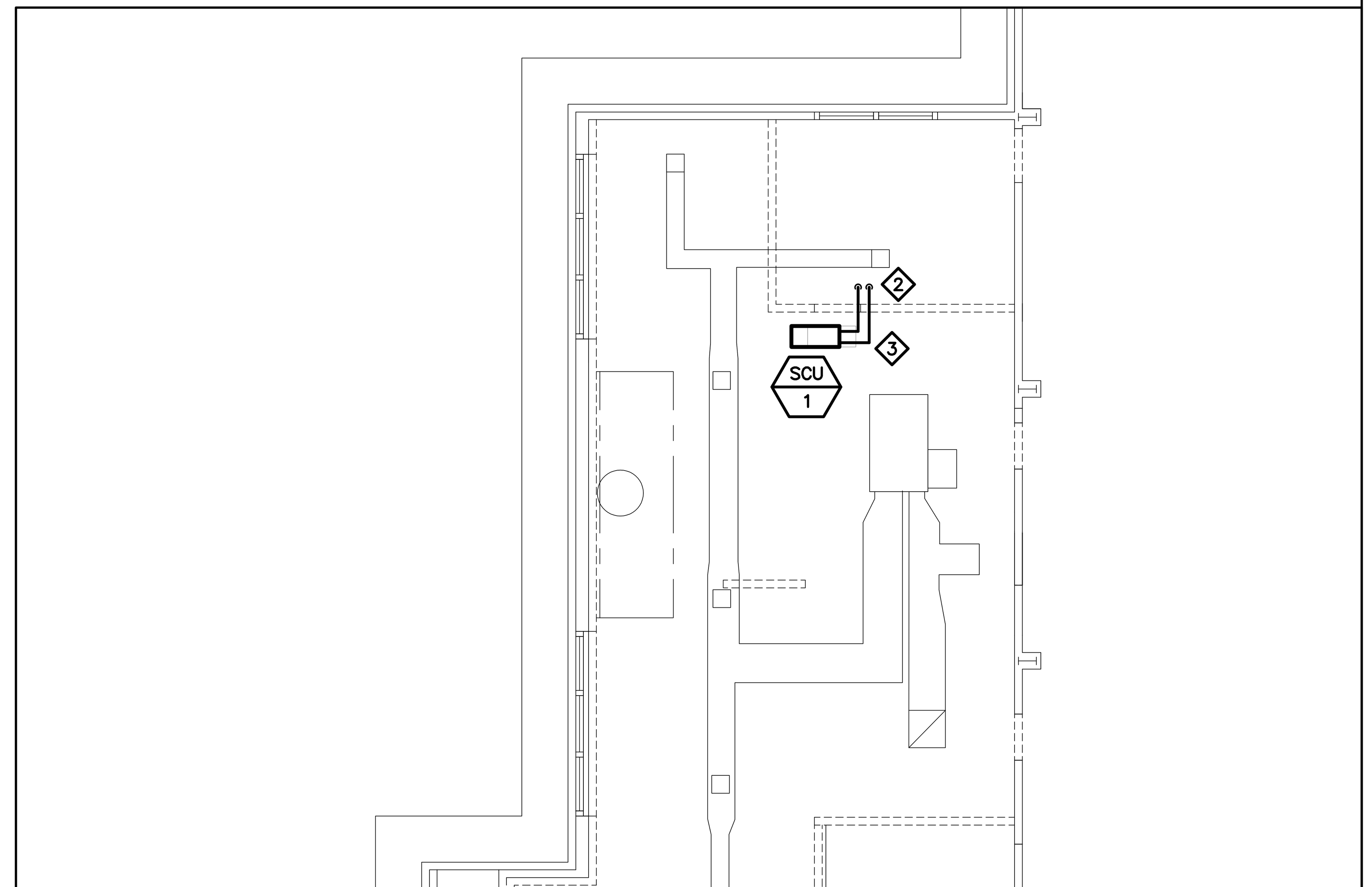
QC	
INI	%

SHEET NOTES:

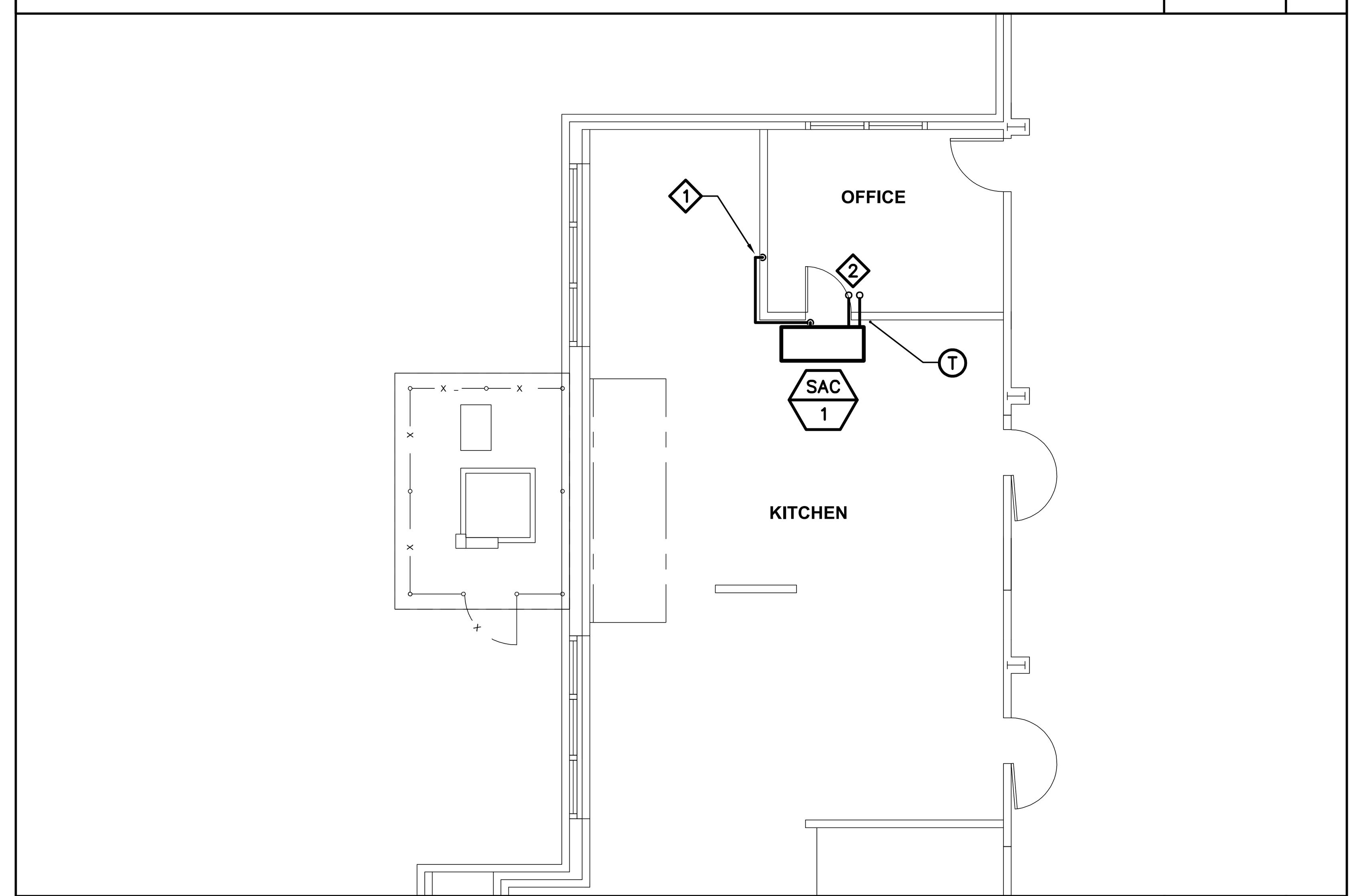
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE T-BAR CEILING AND DOWN THRU WALL. DISCHARGE INTO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

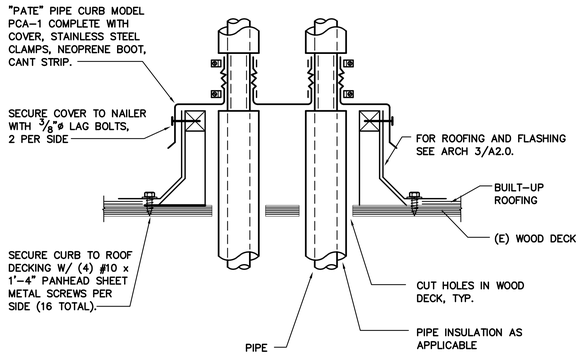
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

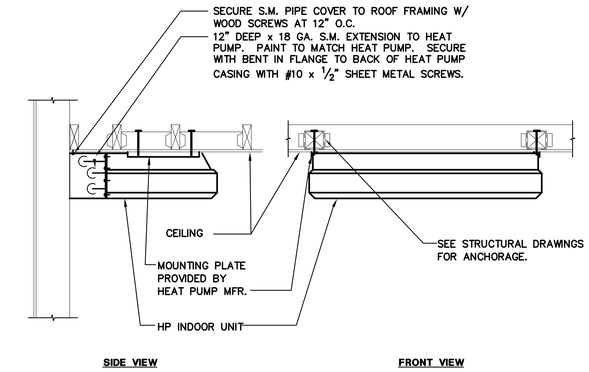
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

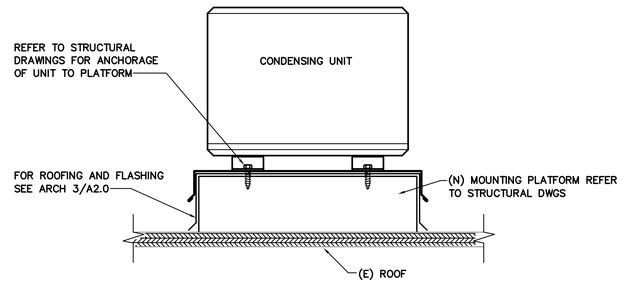
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

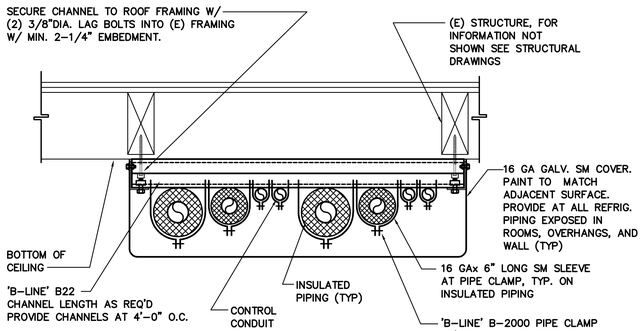
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
EXP DAVIS GRUBB
No. C19022
Exp. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KEVIN DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

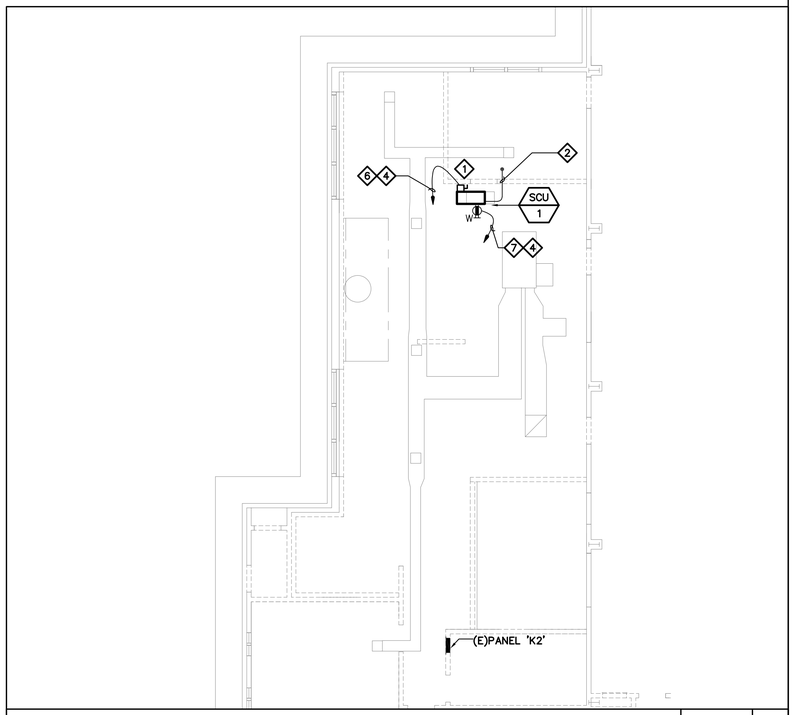
QC
INI | %

SHEET NOTES:

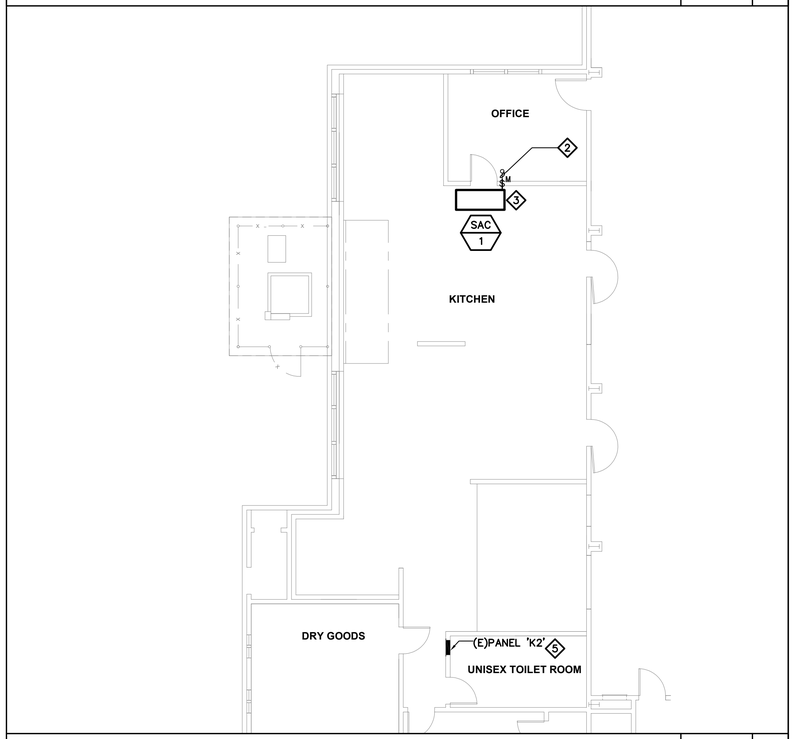
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'K2'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. REMOVE (E) 2-20/1 SPARE CIRCUIT BREAKER IN NON-SHUNT TRIP SECTION AND PROVIDE 1-50/2 CIRCUIT BREAKER AND HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1 SPARE IN NON-SHUNT TRIP SECTION. CUT WALL FOR CONDUIT PENETRATION. PATCH, SEAL, AND PAINT TO MATCH EXISTING.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 1



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
FILIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | PM - DESIGN TEAM
230417.00 | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

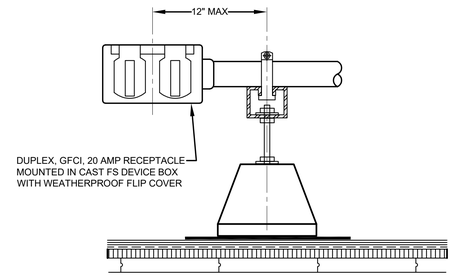
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

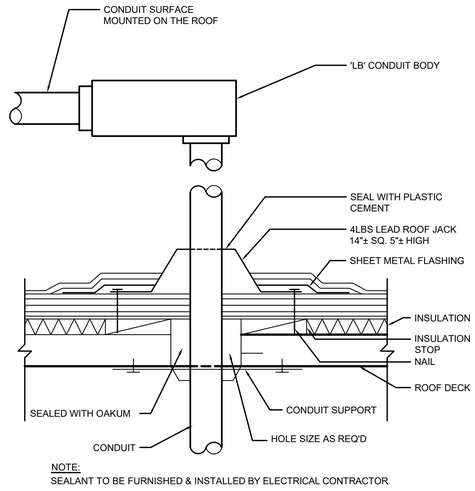


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Hamilton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

HONG KINGSTON AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

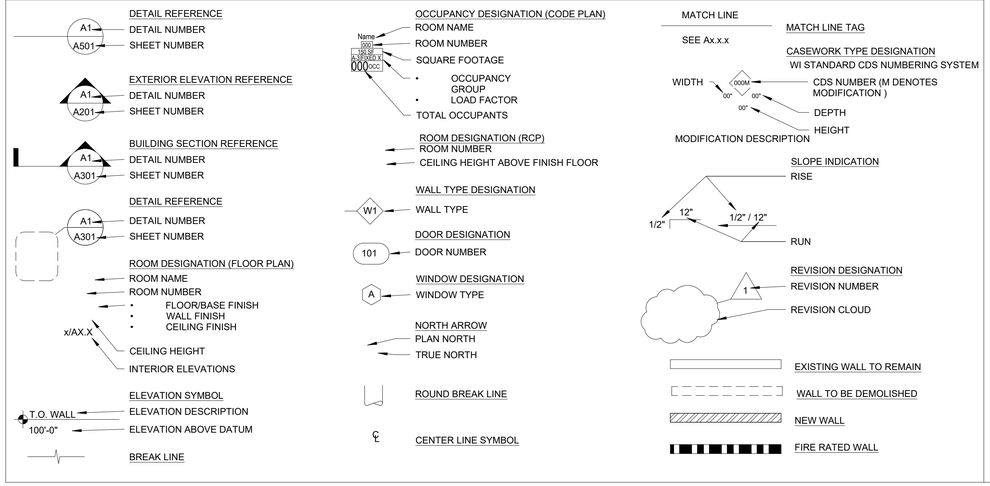
6324 N. Alturas Ave, Stockton, CA 95212

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
		UNO	UNLESS NOTED OTHERWISE
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR	**V**	
OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
OPP	OPPOSITE	VERT	VERTICAL
ORIG	ORIGINAL	VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HONG KINGSTON E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

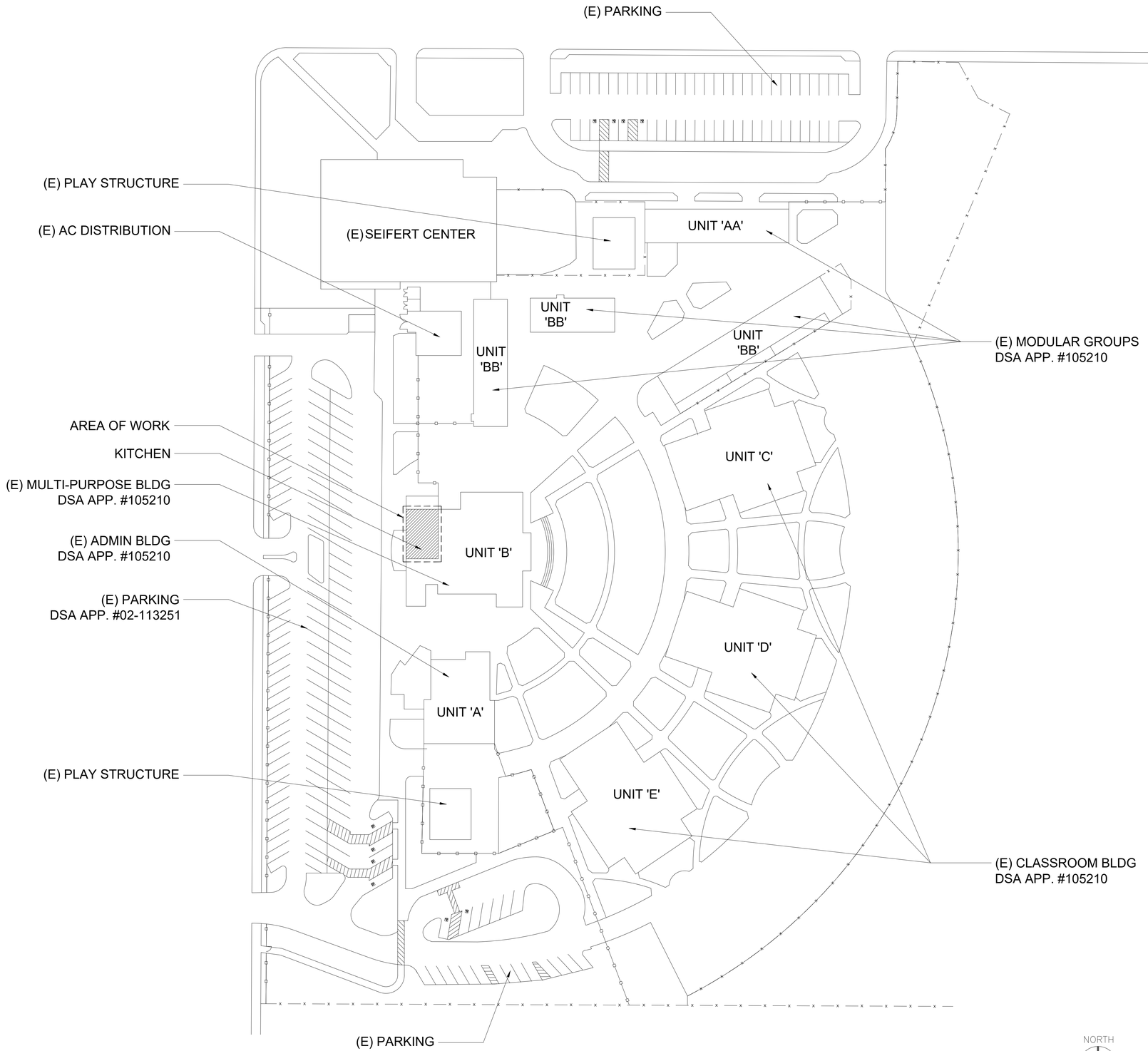
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 50'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HONG KINGSTON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

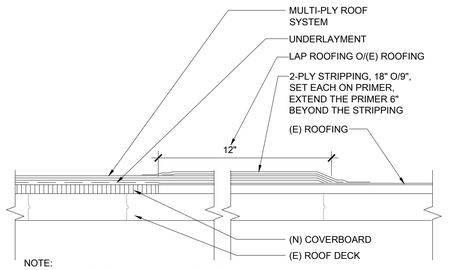
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0



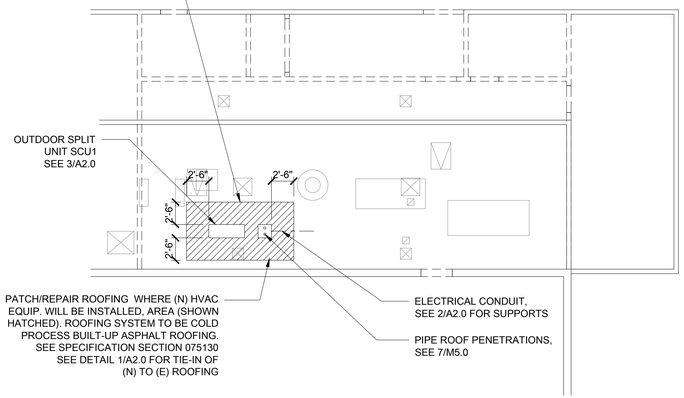
NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

3" = 1'-0" | 1

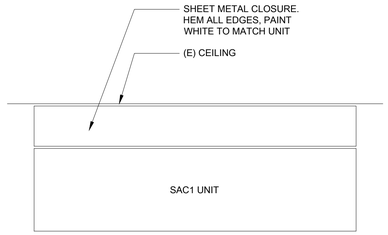
SEE STRUCTURAL FOR EXTENT OF REMOVAL OF ROOF DECK IN THIS AREA TO ACCOMMODATE THE INSTALLATION OF MOUNTING HARDWARE AND BLOCKING

NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.



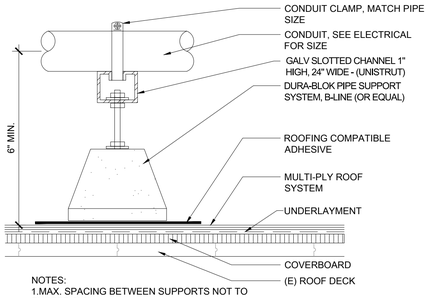
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

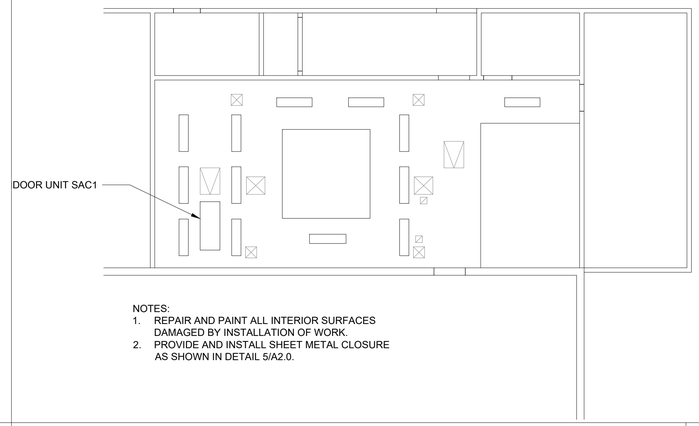
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

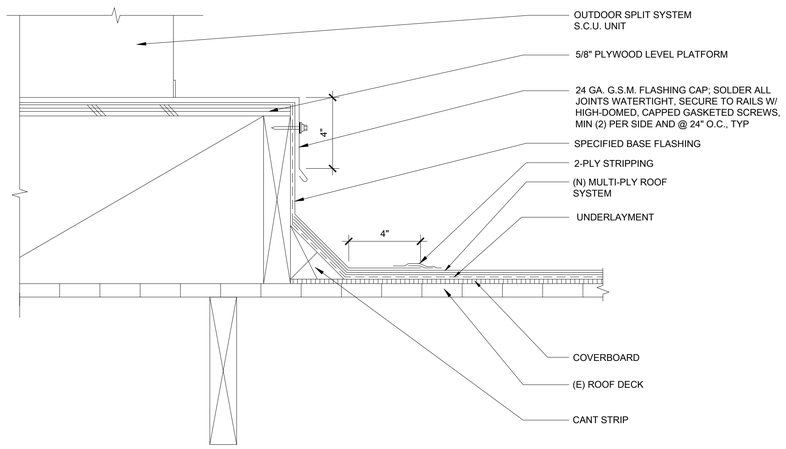
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

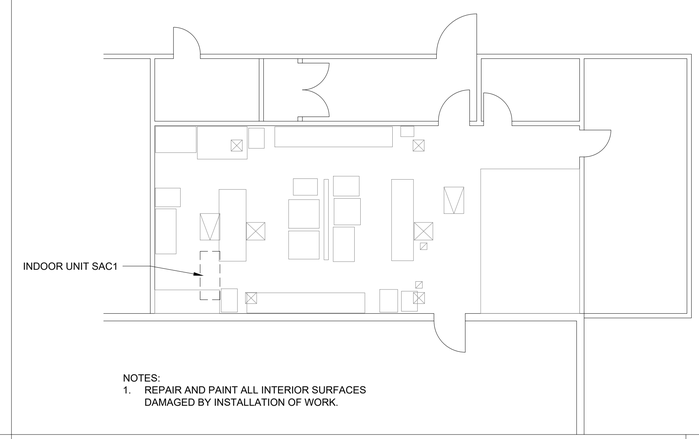
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HONG KINGSTON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
		SP	STRUCTURAL PLYWOOD
GLB	GLUE LAMINATED BEAM	SS	STAINLESS STEEL
GSM	GALVANIZED SHEET METAL		
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
		WWF	WELDED WIRE FABRIC
JT	JACK TRUSS	WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x6" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMG BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

PREFABRICATED WOOD FRAMING MEMBERS

(SHOP DRAWINGS TO BE SUBMITTED PRIOR TO FABRICATION)

1. PREFABRICATED MEMBERS IDENTIFIED HEREIN ARE BASED ON PRODUCTS MANUFACTURED FOR "RedBuilt LLC" AND SHALL BE USED AS THE MINIMUM REQUIREMENT. SUBSTITUTIONS OF ALTERNATE PRODUCTS SHALL HAVE EQUAL OR GREATER PROPERTIES AND CAPACITIES AND MUST HAVE ALL APPROPRIATE APPROVALS.
2. MEMBERS INDICATED AS "I JOIST" SHALL CONSIST OF LVL (LAMINATED VENEER LUMBER) TOP AND BOTTOM CHORDS AND OSB (ORIENTED STRAND BOARD) WEBS IN CONFORMANCE WITH ICC ES ESR -2994 DEPTH AND SERIES AS INDICATED ON PLANS.
3. MEMBERS INDICATED AS "LVL", "LSL", OR "PSL" SHALL MEET MINIMUM PROPERTIES AS SET OUT BELOW:

LVL:	LSL:	PSL:
E = 2.0E6 PSI	E = 1.55E6 PSI	E = 2.0E6 PSI
Fb = 2600 PSI	Fb = 2325 PSI	Fb = 2900 PSI
Fv = 285 PSI	Fv = 525 PSI	Fv = 290 PSI

4. I JOIST BLOCKING TO BE OF SAME MATERIAL AS I JOISTS, UNO.
5. WEB STIFFENERS REQUIRED AT ALL END SUPPORTS, HANGERS AND INTERMEDIATE SUPPORTS.
6. FULL DEPTH I JOIST BLOCKING OR BRIDGING REQUIRED FOR ALL ROOF RAFTERS AT 10'-0" O.C. AND ALL FLOOR JOISTS AT 8'-0" O.C. FOR RAFTER OR JOIST SPAN OF 16'-0" OR MORE.
7. FULL DEPTH BLOCKING REQUIRED BETWEEN RAFTERS OR JOISTS AT ALL SUPPORTS.
8. DOUBLE ALL JOISTS UNDER AND PARALLEL TO PARTITION WALLS.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT I SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .34"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
    - I JOIST MEMBERS — BA HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
t' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < t' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES, IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH

RISK CATEGORY: ☐I ■II ☐III ☐IV

EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .585

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $Fp = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE Fp= .029 Wp

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Hong Kingston E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-036

REVISION #:

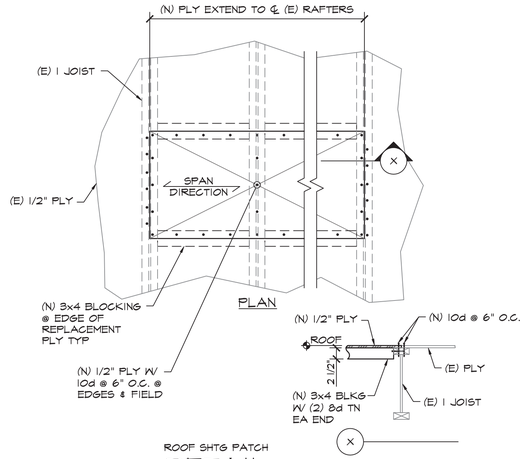
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

S1.0

5 / S2.0 NOT USED

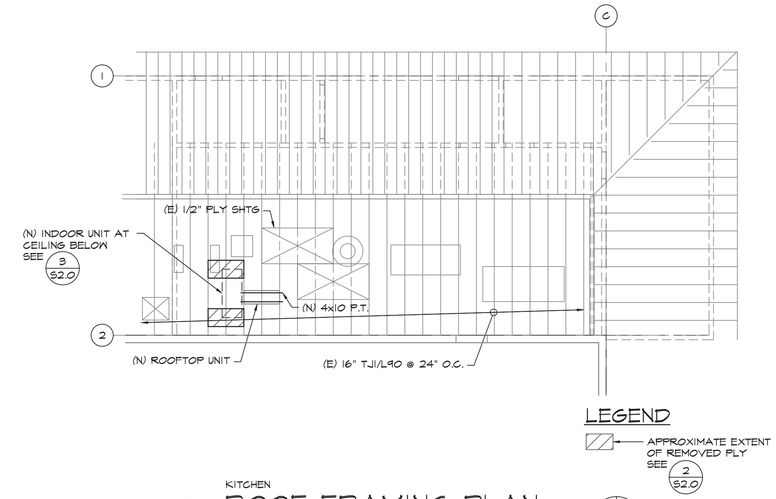
= 1'-0"



ROOF SHTG PATCH

2 / S2.0 DETAIL

3/4" = 1'-0" 022DET002



KITCHEN

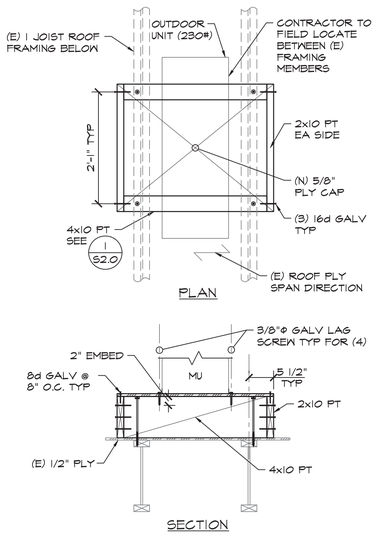
A / S2.0 ROOF FRAMING PLAN

1/8" = 1'-0"

Z

6 / S2.0 NOT USED

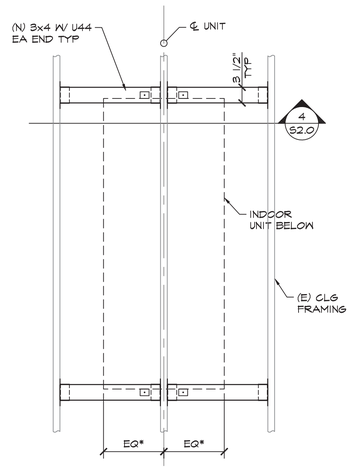
= 1'-0"



OUTDOOR UNIT ANCHORAGE

7 / S2.0 DETAIL

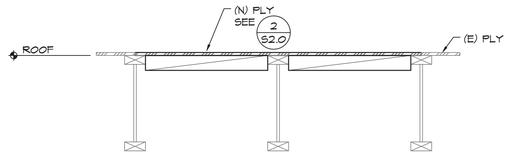
3/4" = 1'-0" 022DET007_TJI

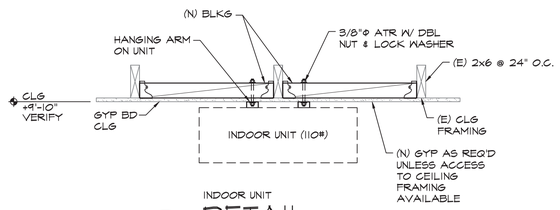


INDOOR UNIT

3 / S2.0 DETAIL

3/4" = 1'-0" 022DET003_TJI

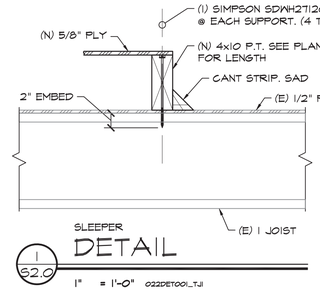




INDOOR UNIT

4 / S2.0 DETAIL

1" = 1'-0" 022DET004_TJI



1 / S2.0 DETAIL

1" = 1'-0" 022DET001_TJI

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Hong Kingston E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-036

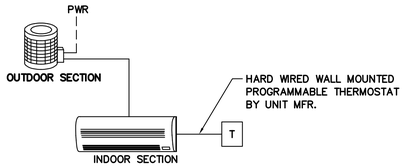
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4 5

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Hong Kingston E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Hong Kingston E.S. Augment Kitchen HVAC Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24 COMPLIANCE

M0.2

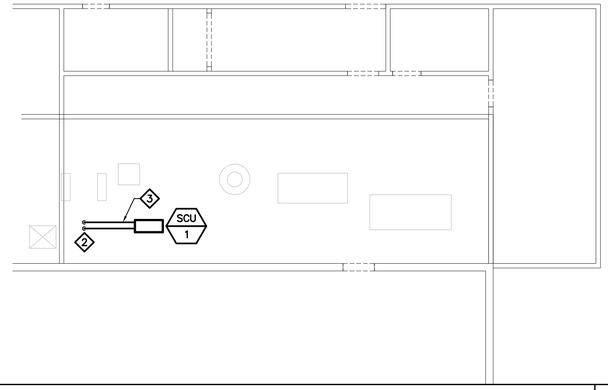
QC	
INI	%

SHEET NOTES:

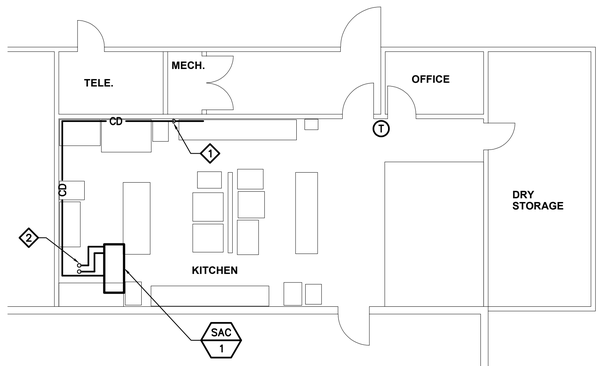
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. ROUTE 3/4" CD HIGH ON WALL (SEE 4/M5.0 FOR MOUNTING), THEN (D) WALL AND DISCHARGE TO (E) FLOOR SINK BENEATH 3-COMP SINK W/ MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN 1/8" = 1'-0" **1**



HVAC FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Hong Kingston E.S.
Augment Kitchen HVAC
Stockton USD

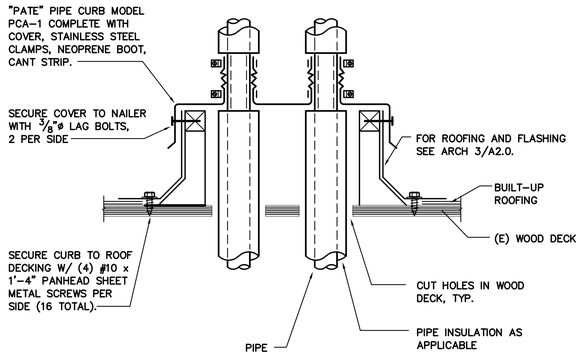
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

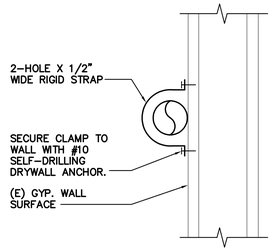
M2.0



PIPE THRU ROOF

SCALE : NONE

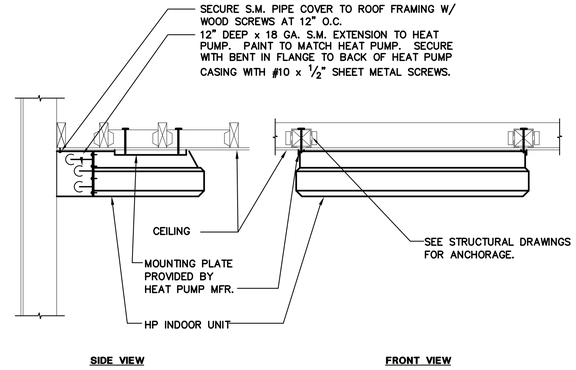
7 / M5.0



CD MOUNTING ON WALL

SCALE : NONE

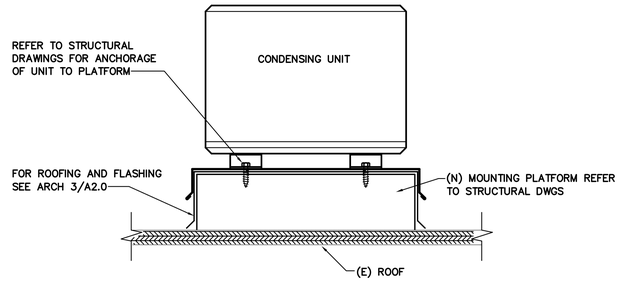
4 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

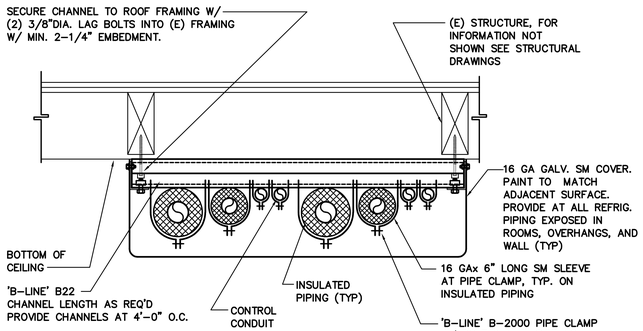
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:

1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Hong Kingston E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Hong Kingston E.S. Augment Kitchen HVAC Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

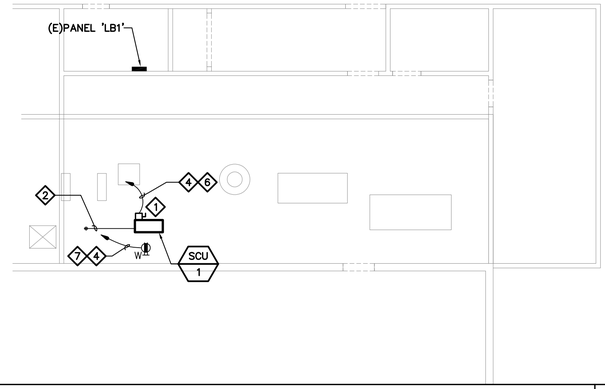
QC	
INI	%

SHEET NOTES:

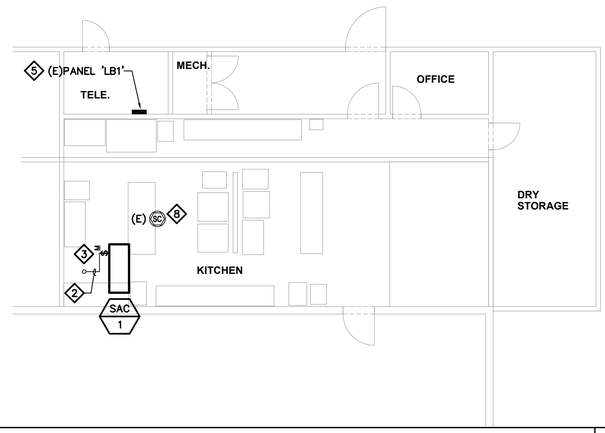
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'LB1'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND
8. REMOVE AND RELOCATE (E) CEILING DETECTOR 36" AWAY FROM SUPPLY AIR. PROVIDE ALL NECESSARY CONDUIT AND WIRES.



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Hong Kingston E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

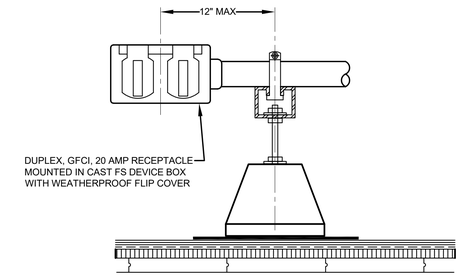
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

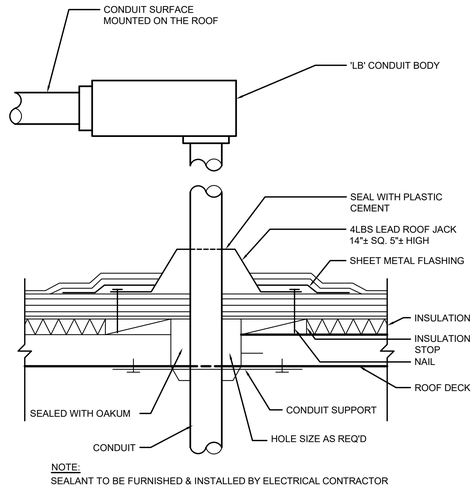


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Hong Kingston E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

HOOVER AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

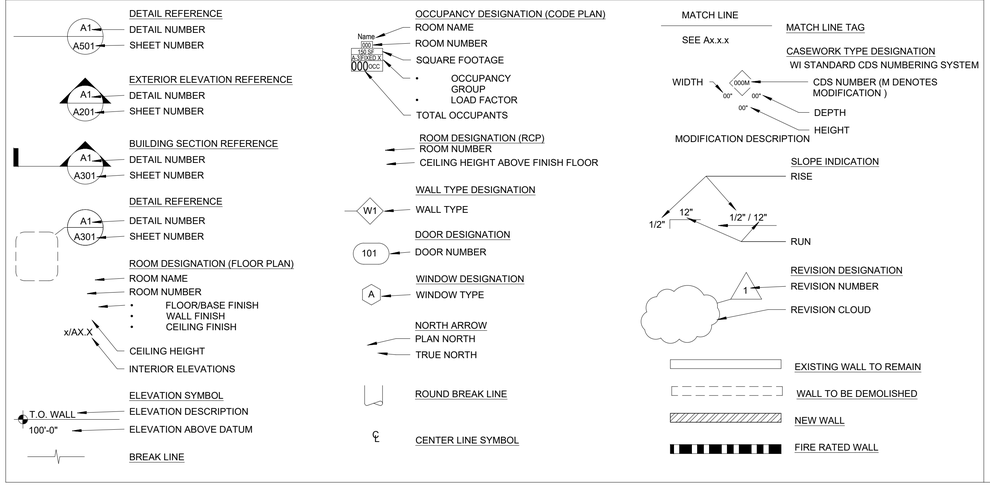
2900 Kirk St, Stockton, CA 95204

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
OFD	OVERFLOW DRAIN	UNO	UNLESS NOTED OTHERWISE
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND	**V**	
OPP	OPPOSITE	VCT	VINYL COMPOSITE TILE
ORIG	ORIGINAL	VERT	VERTICAL
		VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HOOVER E.S. AUGMENT KITCHEN HVAC STOCKTON USD

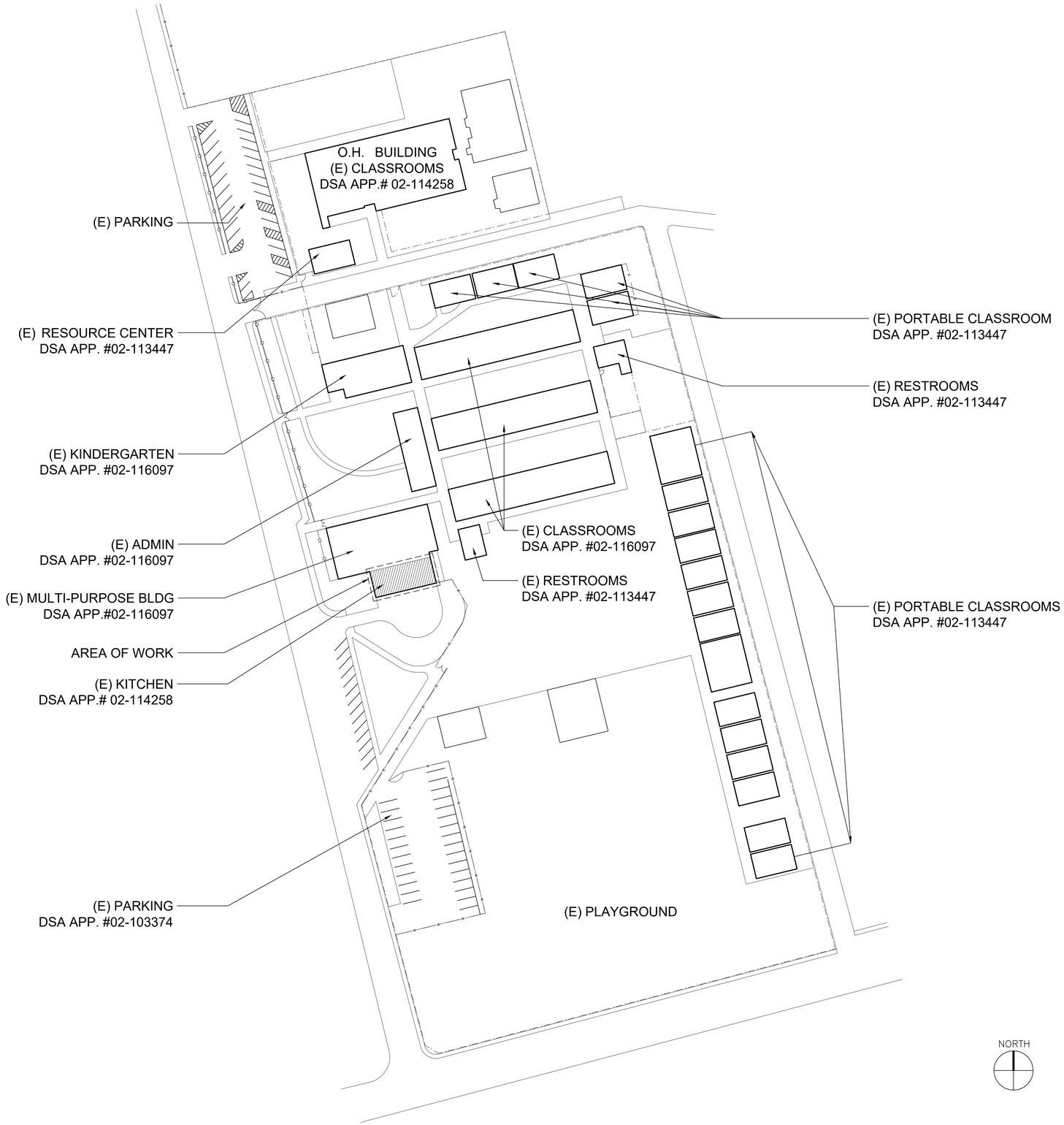
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 50'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HOOVER E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

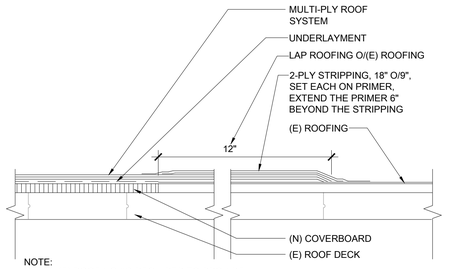
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

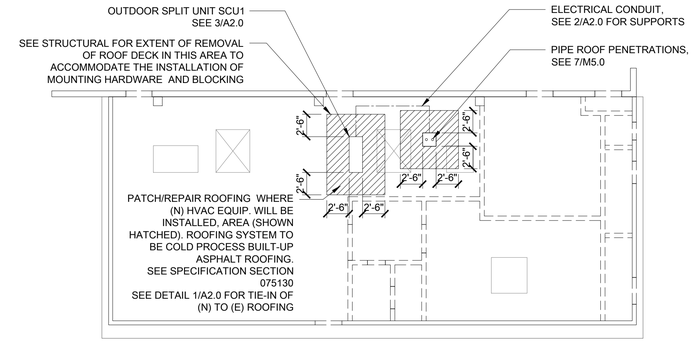
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

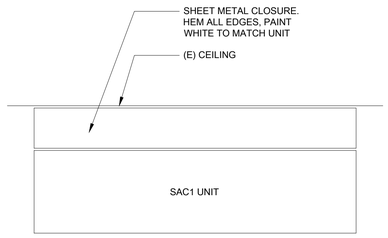
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

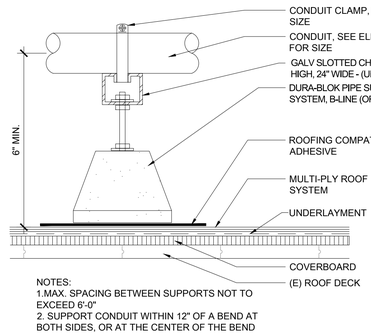
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

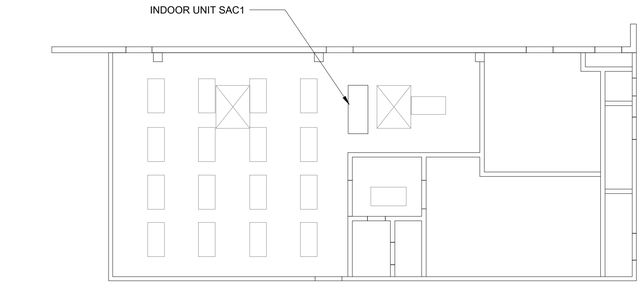
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

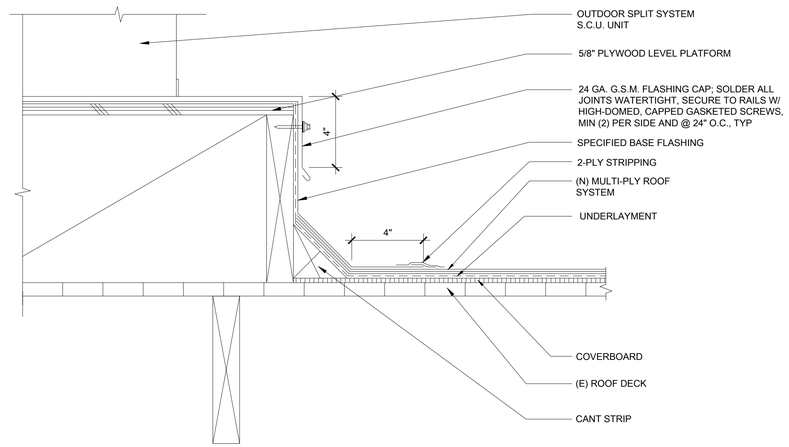
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

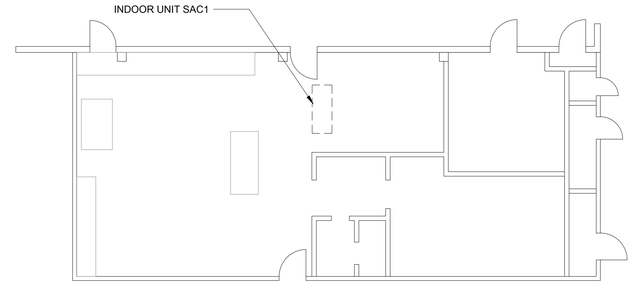
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HOOVER E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
BEV	BEVELED	LT WT	LIGHT WEIGHT
BOC	BOTTOM OF CONCRETE	LVL	LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .609

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p = 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-070

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

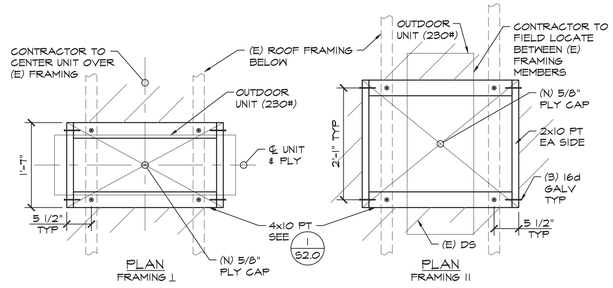
S1.0

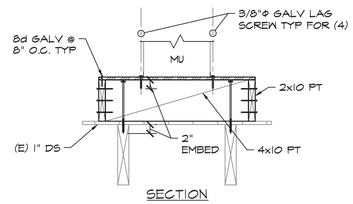
5 / S2.0 NOT USED

= 1'-0"

6 / S2.0 NOT USED

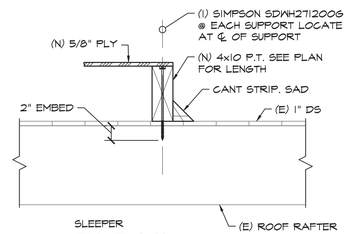
= 1'-0"





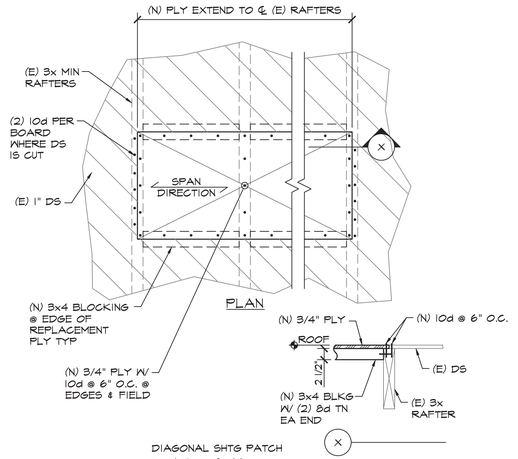
7 / S2.0 OUTDOOR UNIT ANCHORAGE DETAIL

3/4" = 1'-0" 022DET007_3x_DS



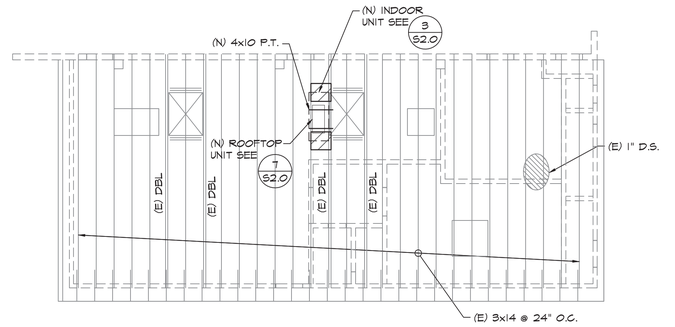
1 / S2.0 SLEEPER DETAIL

1" = 1'-0" 022DET001



2 / S2.0 DIAGONAL SHTG PATCH DETAIL

3/4" = 1'-0" 022DET002

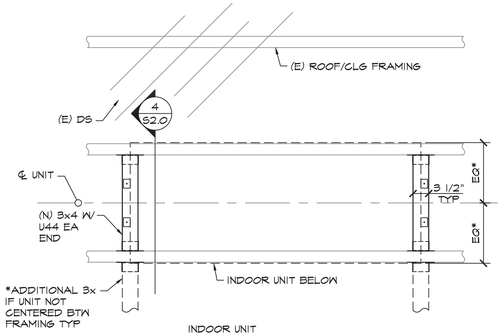


LEGEND

APPROXIMATE EXTENT OF REMOVED DS SEE 2/S2.0

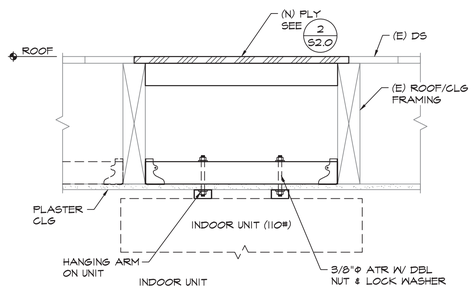
A / S2.0 KITCHEN ROOF FRAMING PLAN

1/8" = 1'-0"



3 / S2.0 INDOOR UNIT DETAIL

3/4" = 1'-0" 022DET003



4 / S2.0 INDOOR UNIT DETAIL

1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

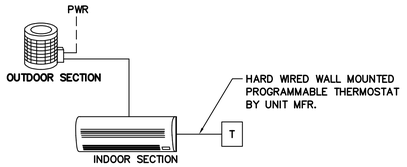
PROJECT #:
2023-070

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

1 / M0.1

SCALE : NONE

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4 5

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

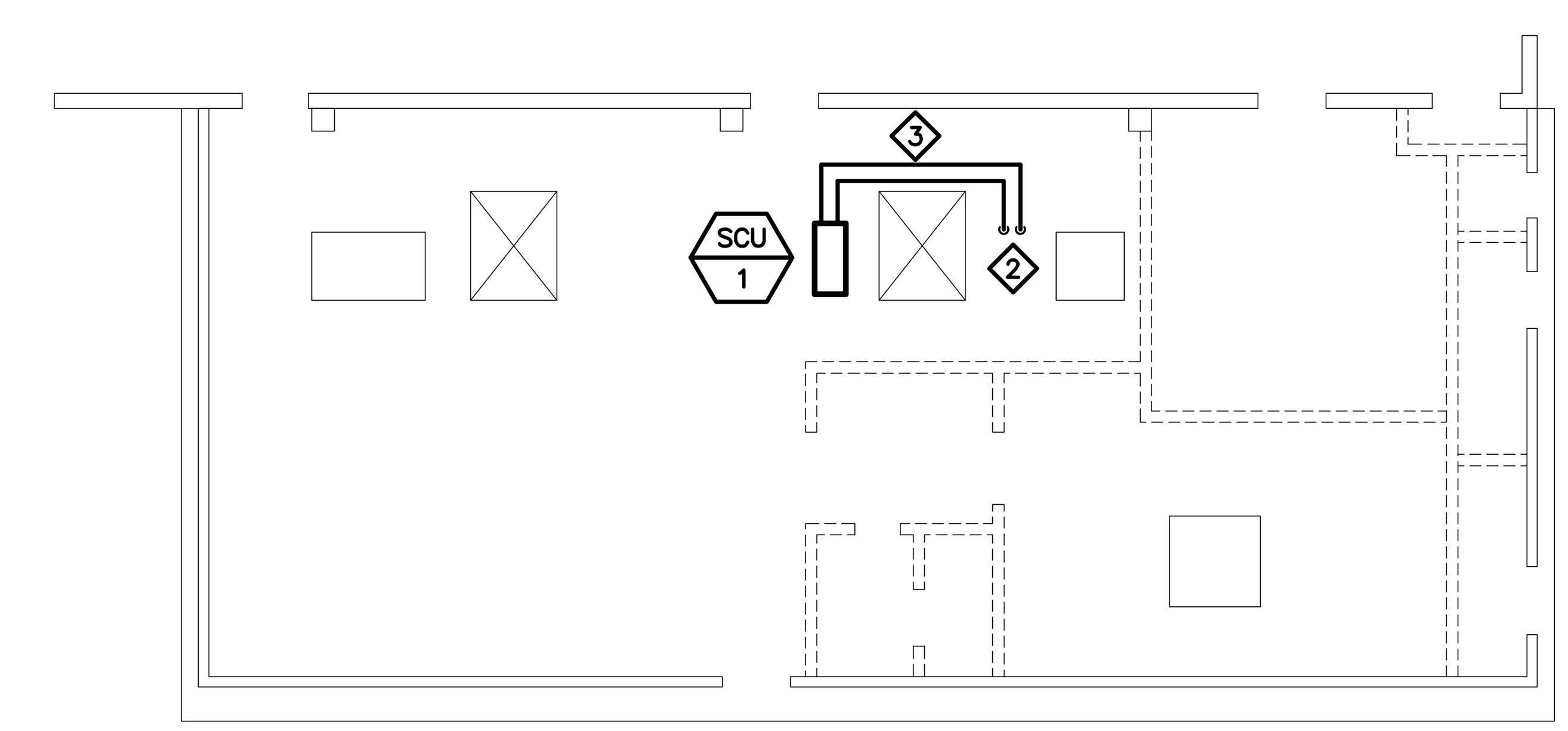
QC	
INI	%

SHEET NOTES:

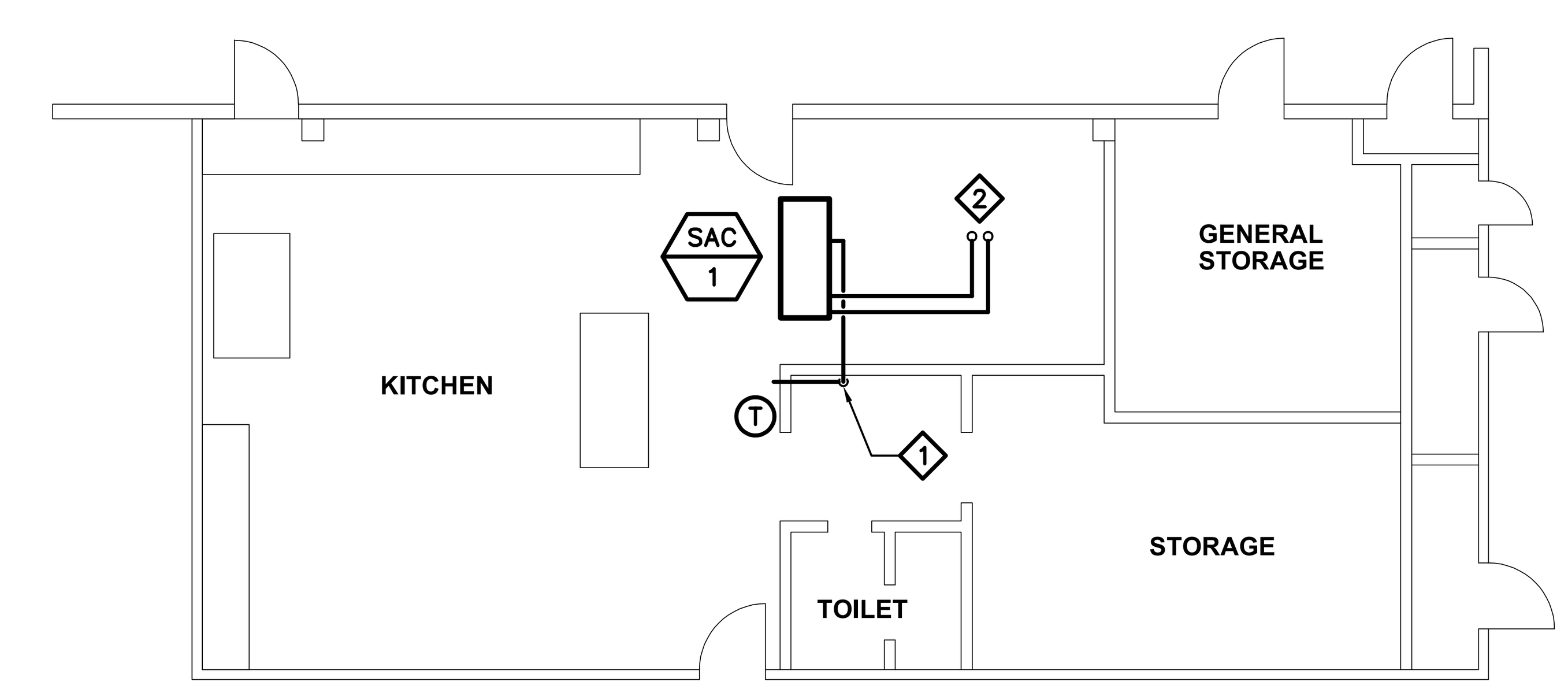
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE GYP CEILING AND (D) ALONG INTERIOR OF WATER HEATER ROOM WALL. OFFSET THRU WALL BELOW SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN 1/8" = 1'-0" **1**



HVAC FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering

RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

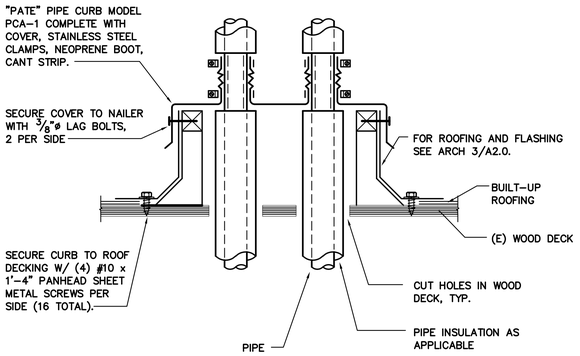
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

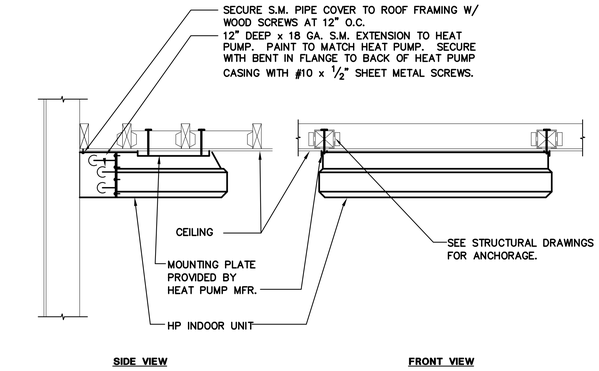
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

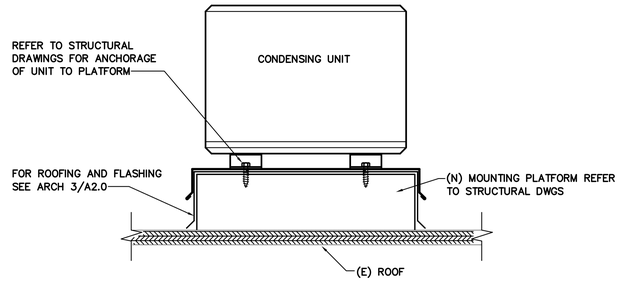
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

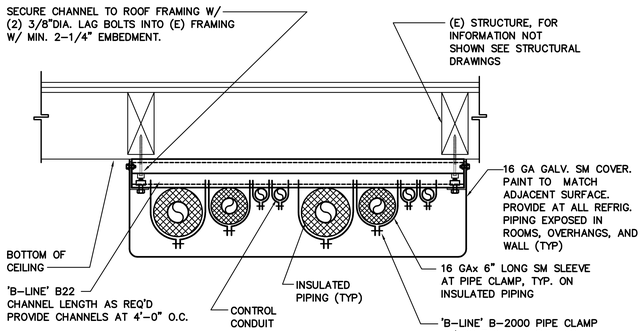
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
JEFF DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
No. M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
J	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
JEFF DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

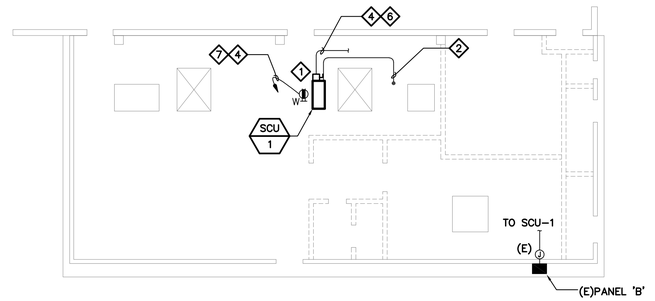
QC
INI | %

SHEET NOTES:

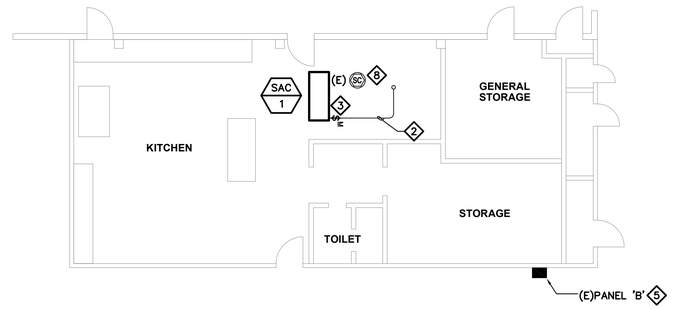
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF AND CONNECT TO EXISTING JUNCTION BOX, THEN ELLED DOWN TO GO TO PANEL 'B'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND
8. REMOVE AND RELOCATE (E) CEILING DETECTOR 36" AWAY FROM SUPPLY AIR. PROVIDE ALL NECESSARY CONDUIT AND WIRES.



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

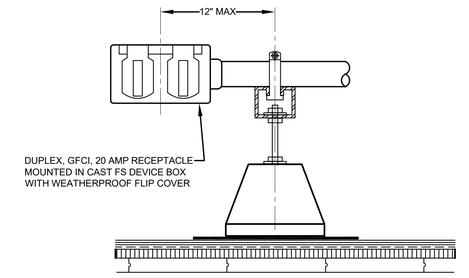
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

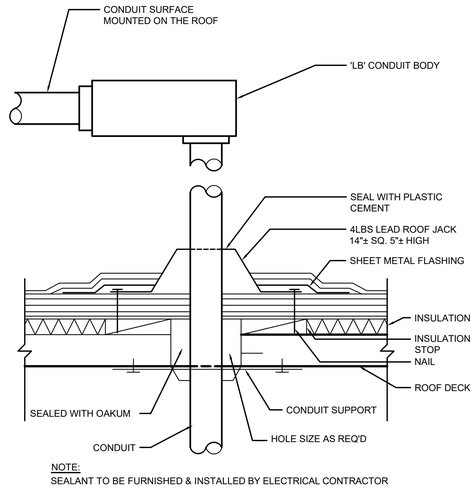


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Hoover E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

HUERTA AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

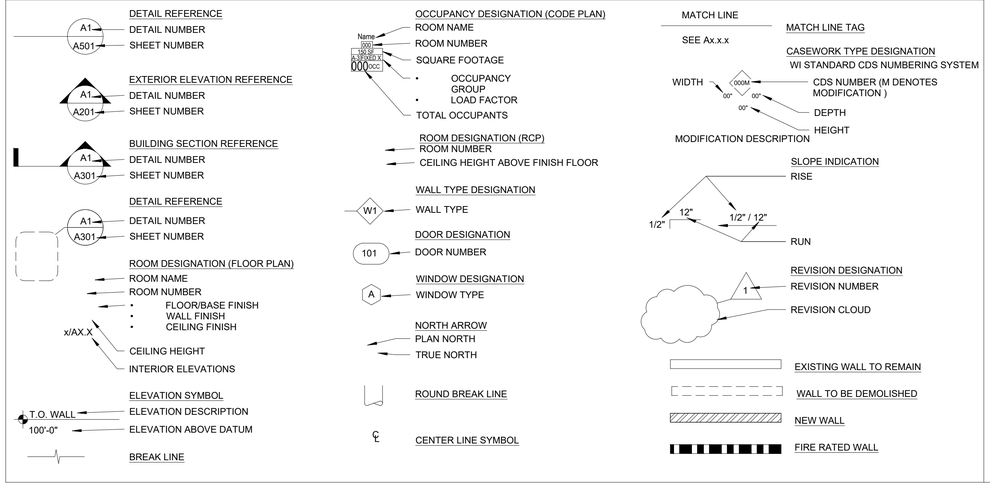
1644 S. Lincoln St,Stockton, CA 95206

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HUERTA E.S. AUGMENT KITCHEN HVAC STOCKTON USD

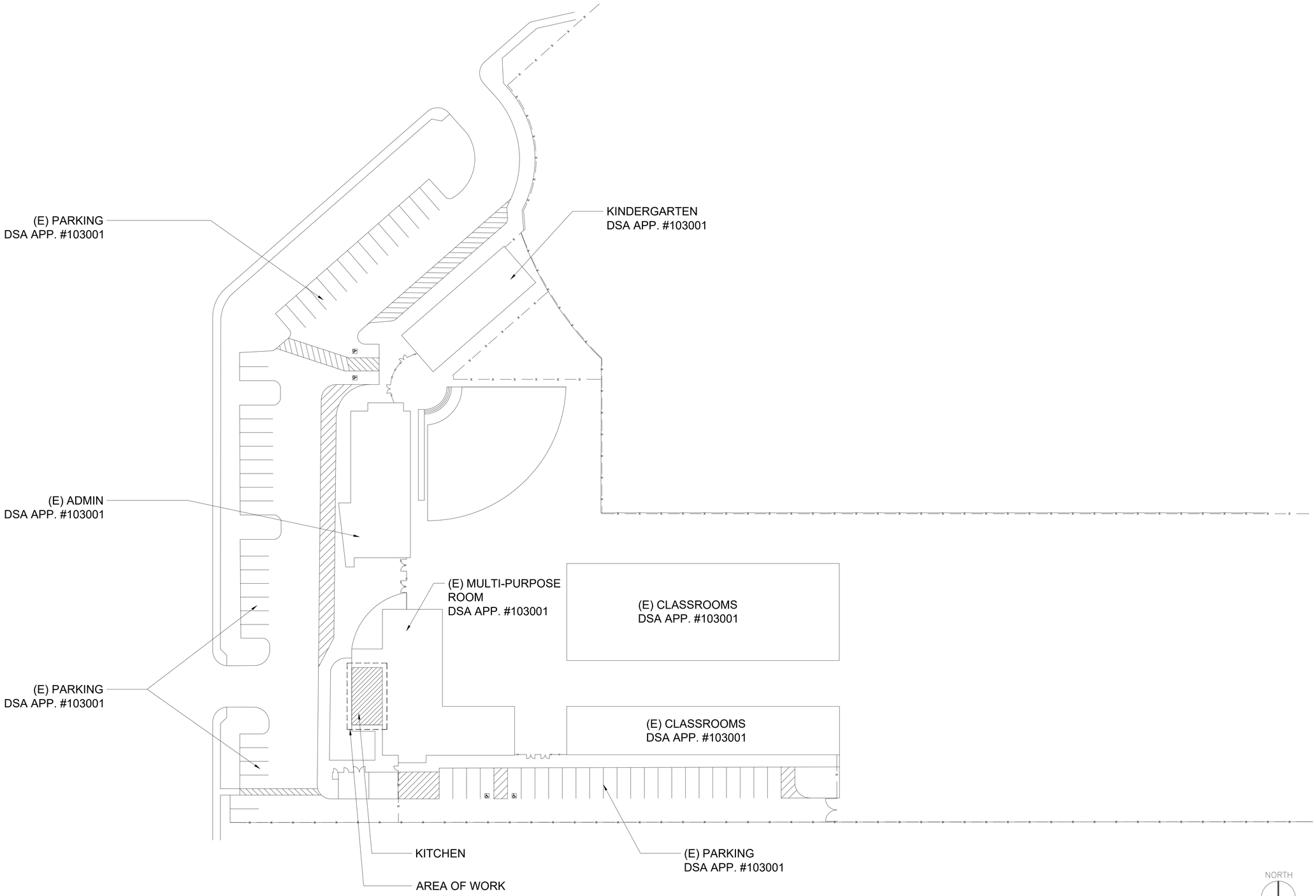
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 30'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HUERTA E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

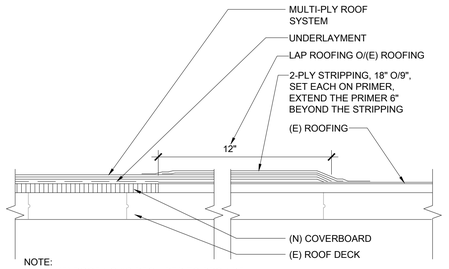
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

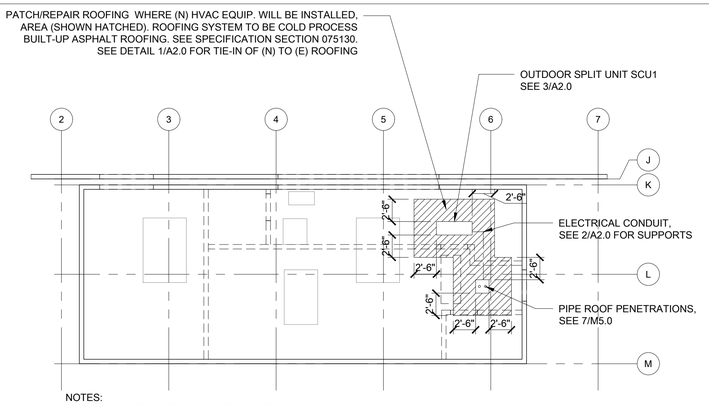
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

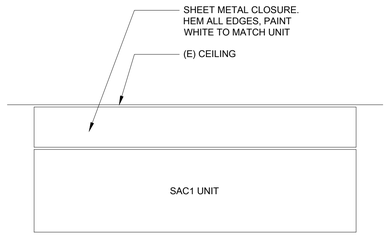
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

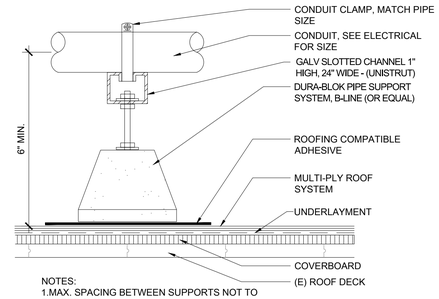
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

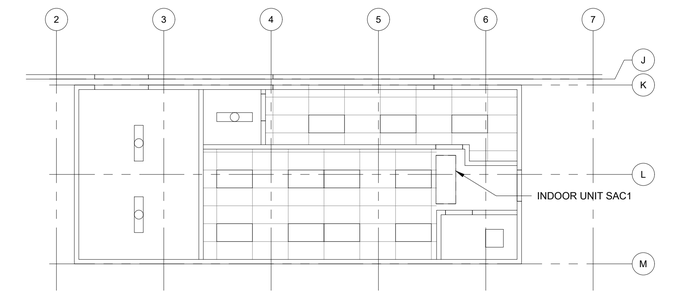
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

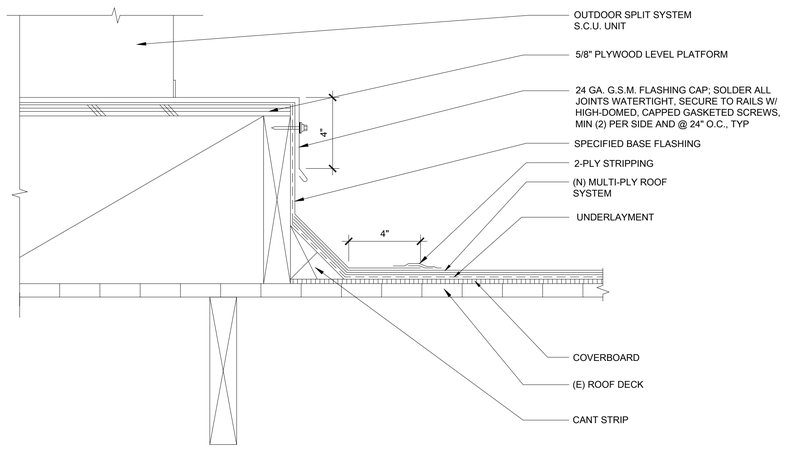
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

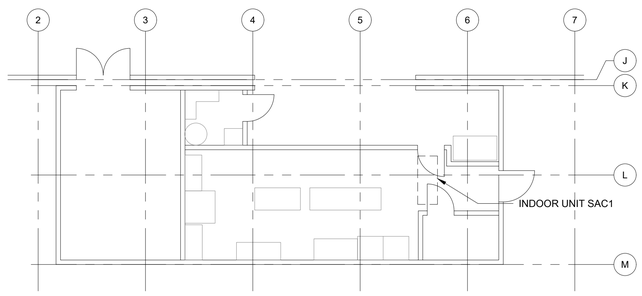
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
HUERTA E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
BEV	BEVELED	LT WT	LIGHT WEIGHT
BOC	BOTTOM OF CONCRETE	LVL	LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PRECAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING		
EF	EACH FACE	PSI	POUNDS PER SQUARE INCH
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
			TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
		WWF	WELDED WIRE FABRIC
JT	JACK TRUSS		
		WPJ	WEAKENED PLANE JOINT

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL; MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .39"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▭ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH

RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV

EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .598

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE Fp= .29 Wp

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

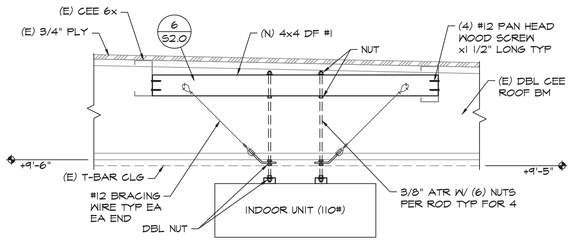
PROJECT #:
2023-023

REVISION #:

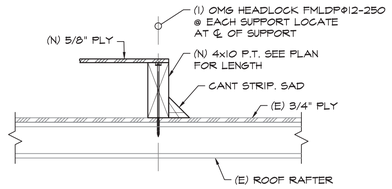
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

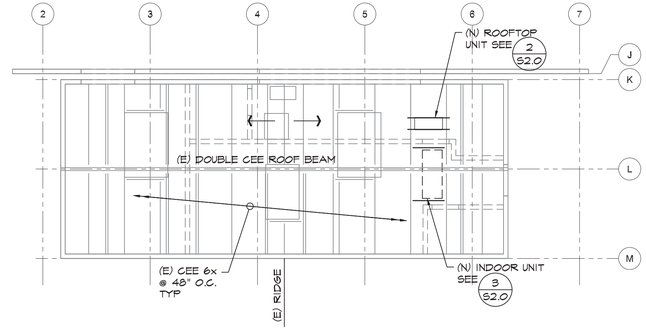
S1.0



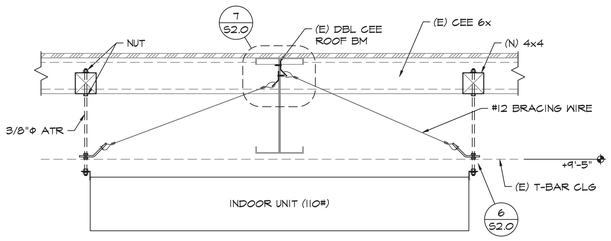
SUPPORT
DETAIL
4 S2.0
1" = 1'-0" 022DET004_CEE



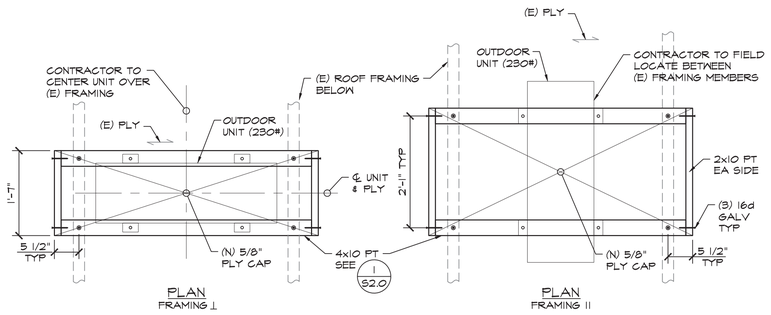
SLEEPER
DETAIL
1 S2.0
1" = 1'-0" 022DET001_CEE

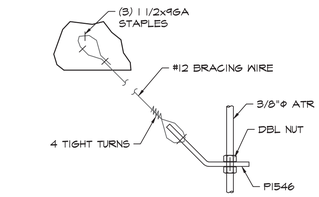


KITCHEN
ROOF FRAMING PLAN
A S2.0
1/8" = 1'-0"

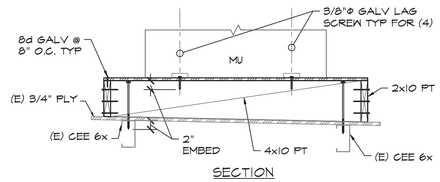


INDOOR UNIT
DETAIL
5 S2.0
1" = 1'-0" 023DET001



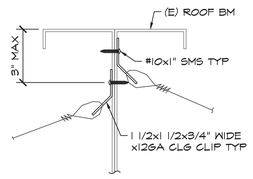


BRACING WIRE
DETAIL
6 S2.0
3" = 1'-0" 023DET002

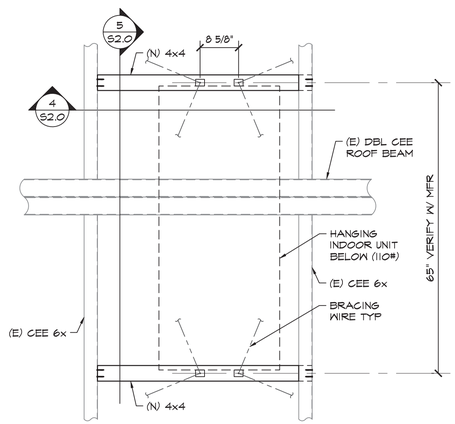


SECTION

OUTDOOR UNIT ANCHORAGE
DETAIL
2 S2.0
3/4" = 1'-0" 022DET007_3x_DS



BRACING WIRE
DETAIL
7 S2.0
3" = 1'-0" 023DET003



INDOOR UNIT
DETAIL
3 S2.0
3/4" = 1'-0" 022DET003_CEE

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-023

REVISION #:

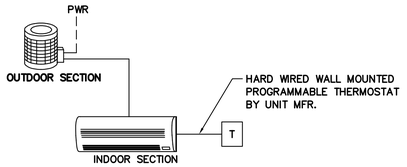
DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC

INI	%



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	MCA	MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	1 2 3 4 5

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(j) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

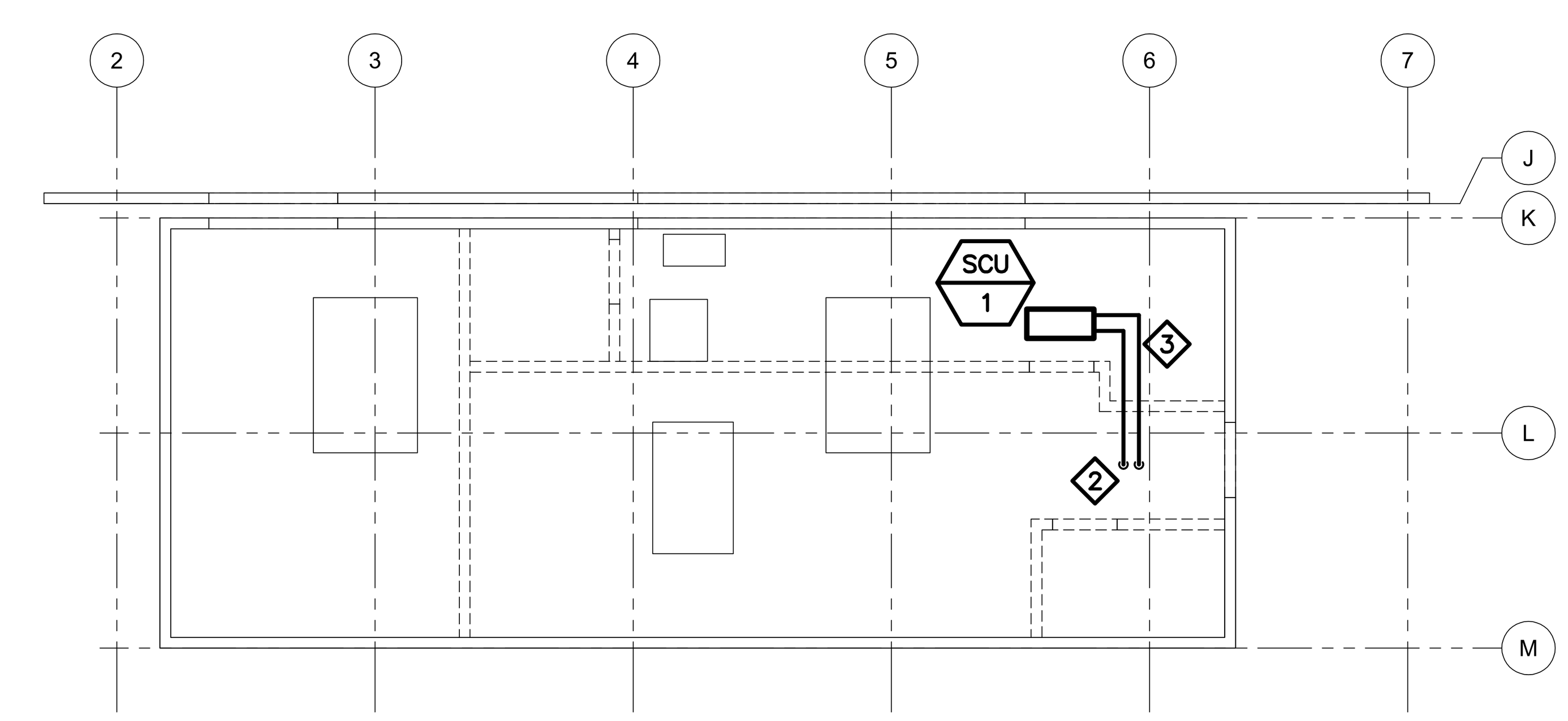
QC	
INI	%

SHEET NOTES:

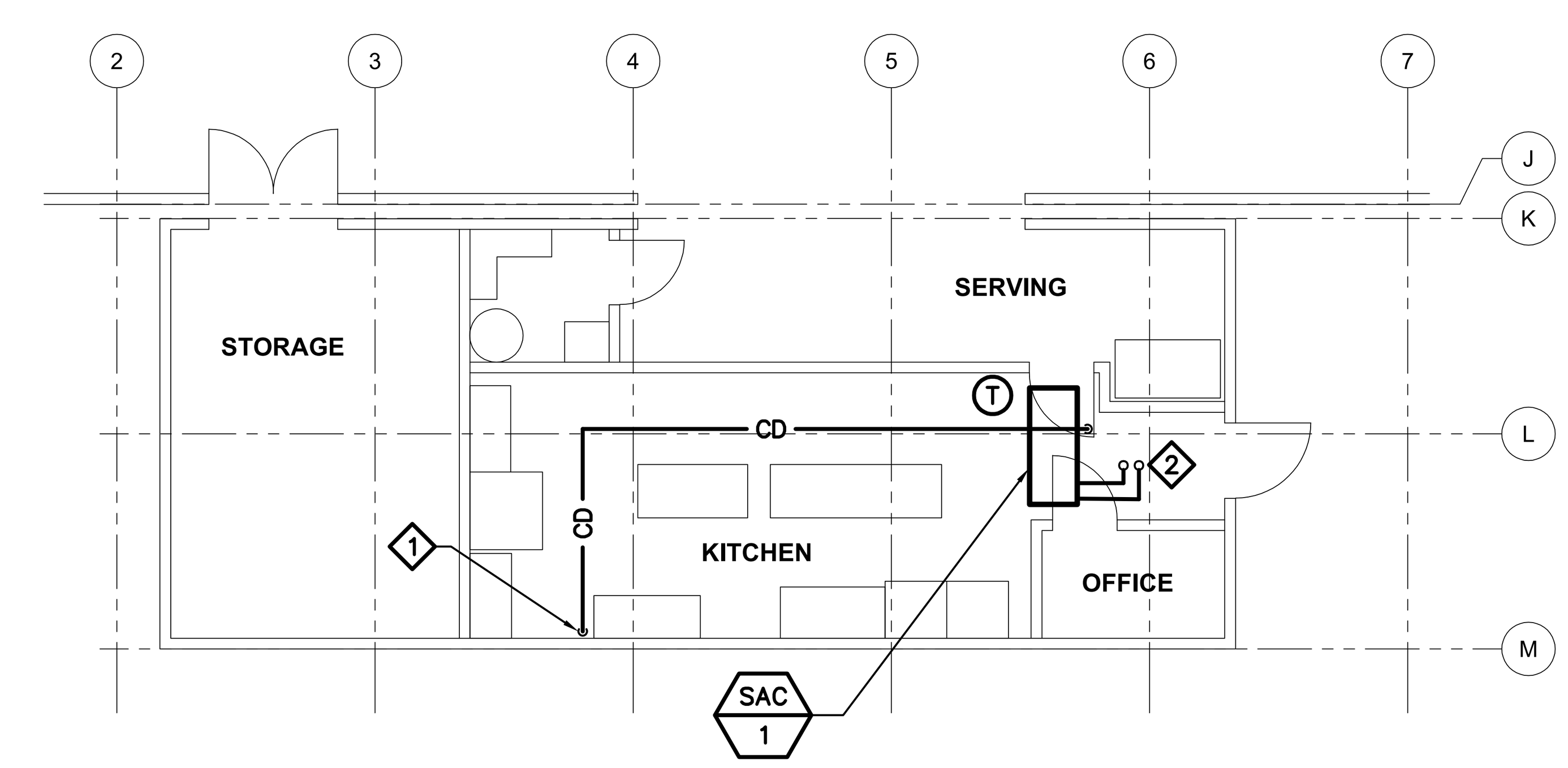
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE T-BAR CEILING AND (D) ALONG WALL TO BELOW 3-COMP SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

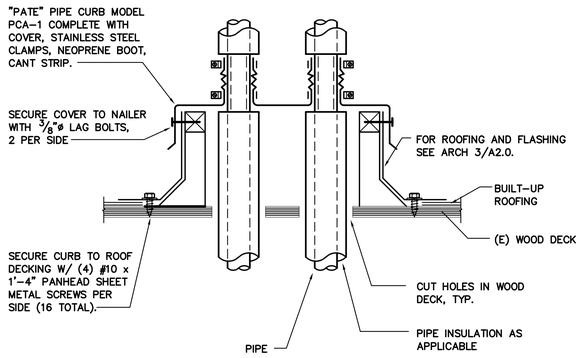
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

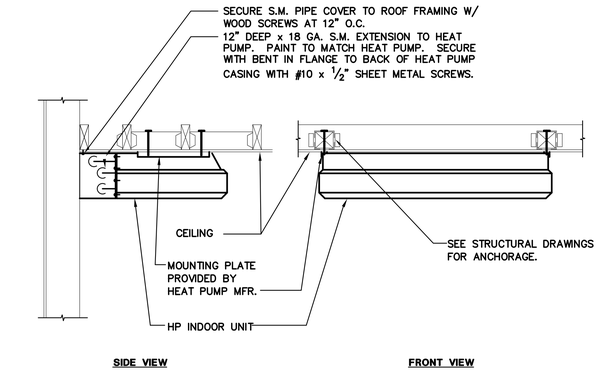
M2.0



PIPE THRU ROOF

SCALE : NONE

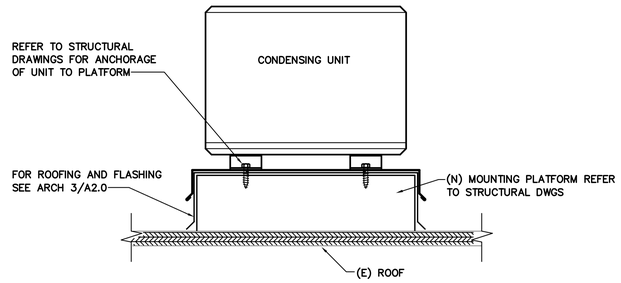
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

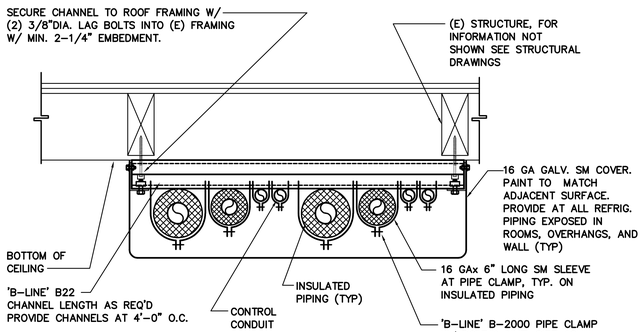
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:

1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

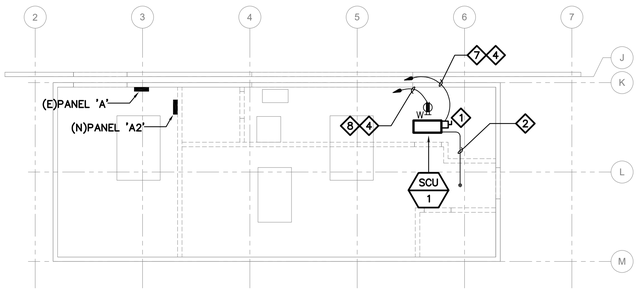
QC	
INI	%

SHEET NOTES:

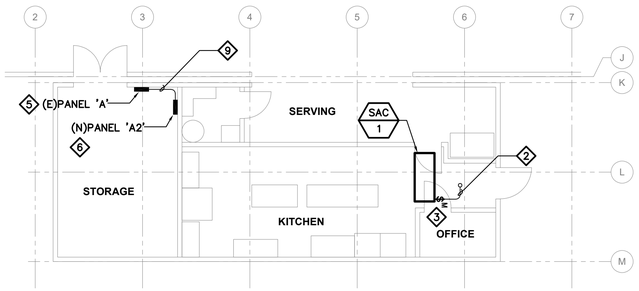
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'A2'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. REMOVE 3-20/1 CIRCUIT BREAKERS (2,4,6). PROVIDE 1-100/3 CIRCUIT BREAKER WITH HARDWARE. RELOCATE BRANCHS (2,4,6) TO NEW PANEL 'A2'. EXTEND CONDUIT AND WIRES FROM GUTTER BELOW PANEL 'A'. 3-1/2"-2#12,#12GND. FROM 100/3 TO NEW PANEL 'A2' CONNECT AS REQUIRED.
6. NEW 100AMP, 120/208V, 3P 4W PANEL WITH 100/3 MAIN, 4-20/1 AND 1-50/2 CIRCUIT BREAKERS. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1. RECONNECT 3 BRANCH CIRCUITS FROM PANEL 'A' AS REQUIRED.
7. 1" - 2#6, 1#10GND
8. 3/4" - 2#12, #12GND
9. 1-1/2" - 4#2, #8GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

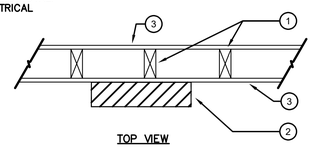
ELECTRICAL FLOOR AND ROOF PLAN

E2.0

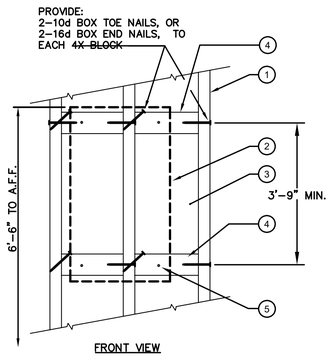
QC
INI | %

KEY NOTES:

1. WOOD STUD
2. SURFACE MOUNTED PANEL CABINET, (SEE NOTE #1 FOR PANEL WEIGHT)
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)
4. 4X MIN. WOOD BLOCK, FASTENED TO VERTICAL STUDS AT EACH END.
5. 5/16" X 2 1/2" LAG SCREWS WITH 1" MIN. EMBED. TO BLOCK, OR STUD. (4) LAG SCREWS TOTAL. (INSTALLED BY ELECTRICAL CONTRACTOR)



TOP VIEW



NOTES:

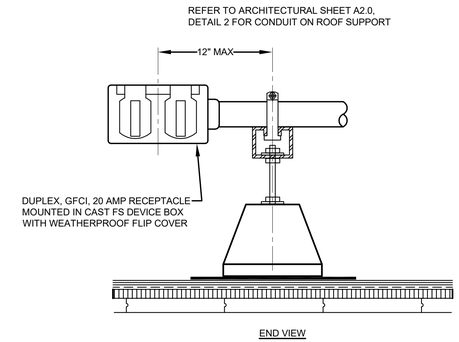
1. PANEL WEIGHT:
   REGULAR: 150 LBS.
   LARGE: 250LBS. MAX
2. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.
3. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = ±50".

FRONT VIEW

SURFACE PANELBOARD WOOD FRAMING MOUNTING DETAIL

SCALE : NONE

3 / E5.0

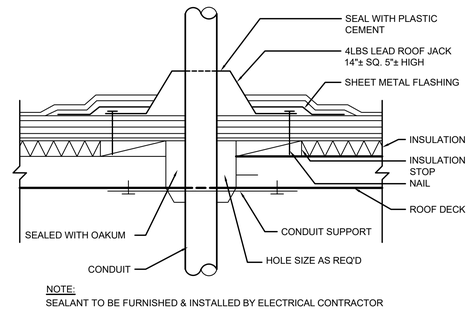


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1 / E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2 / E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Huerta E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

KENNEDY AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

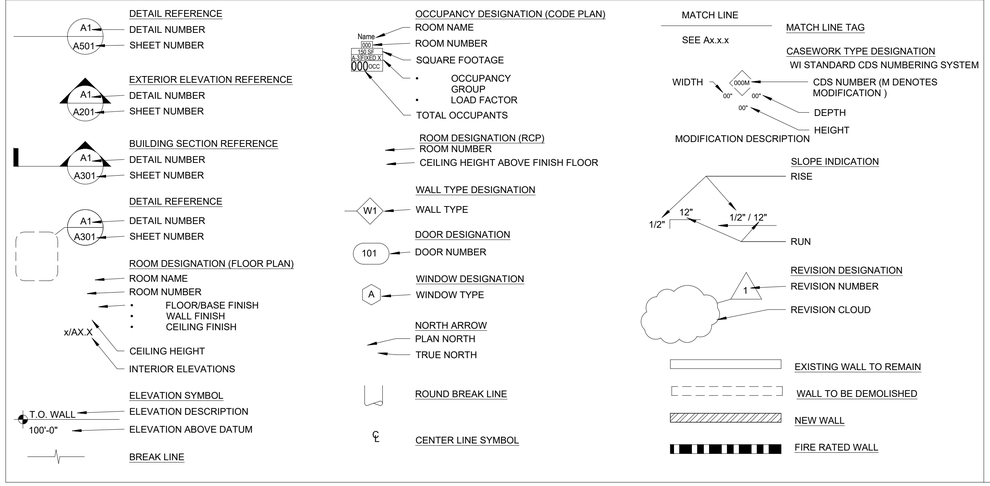
630 Ponce De Leon Ave, Stockton, CA 95210

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
KENNEDY E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

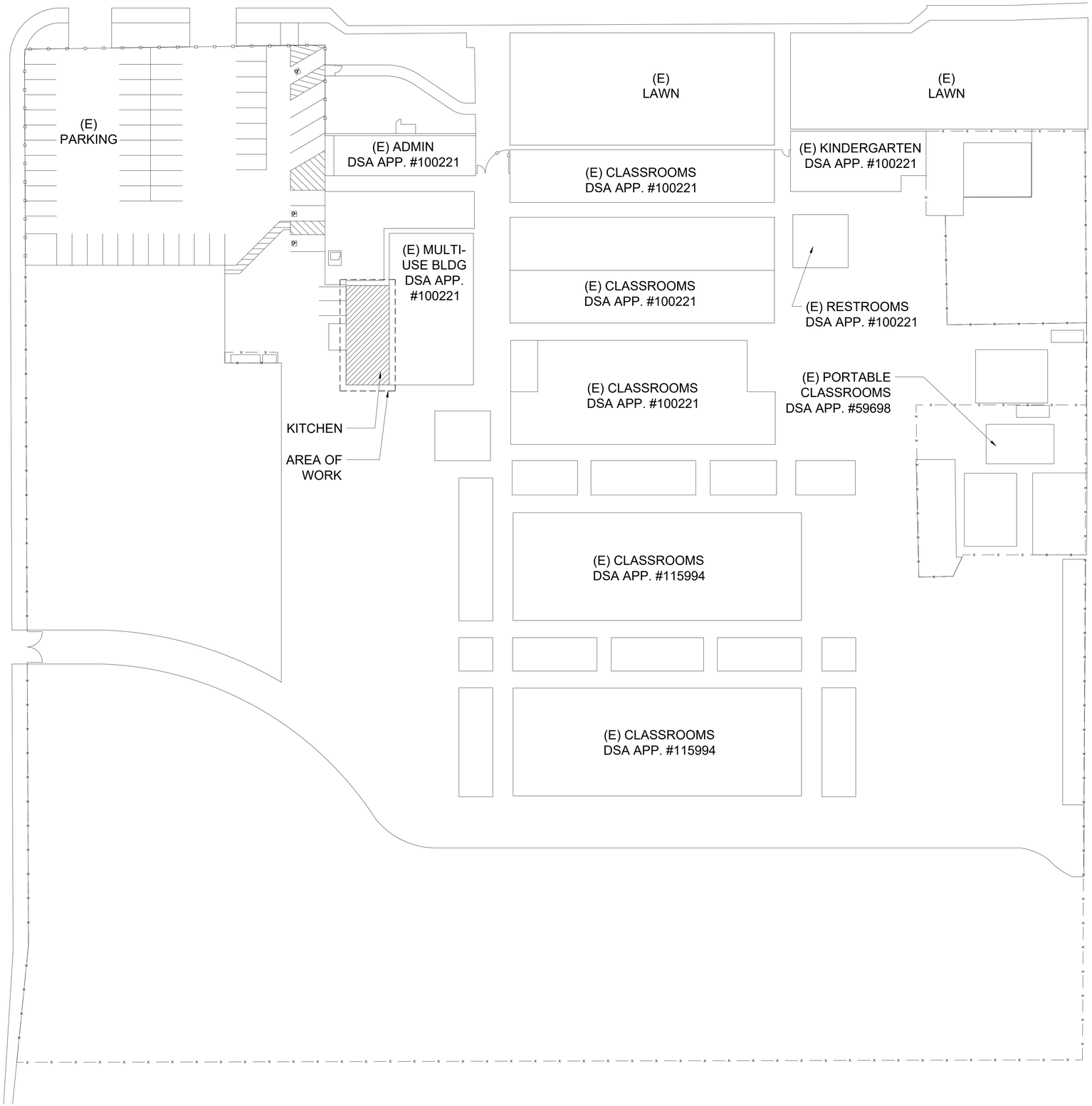
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 30'-0" | **1**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
KENNEDY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

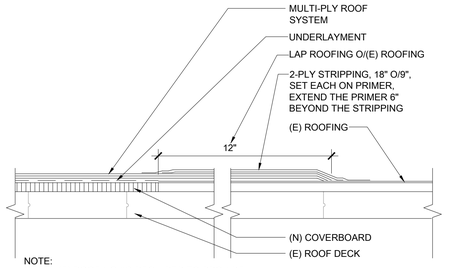
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0

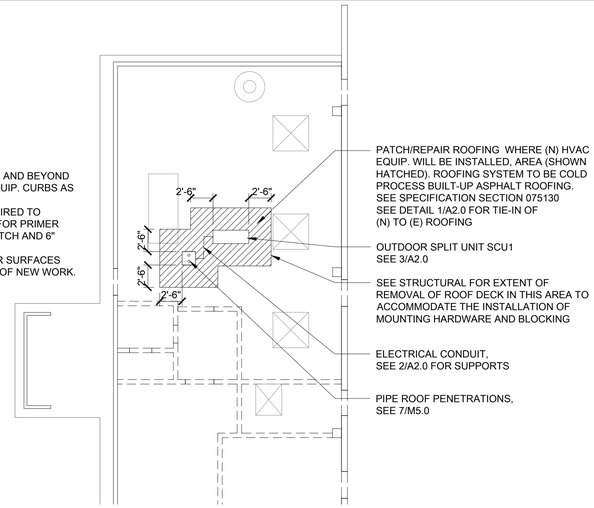


NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

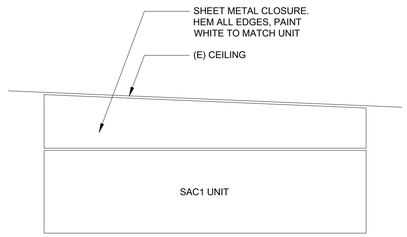
3" = 1'-0" | 1

NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.



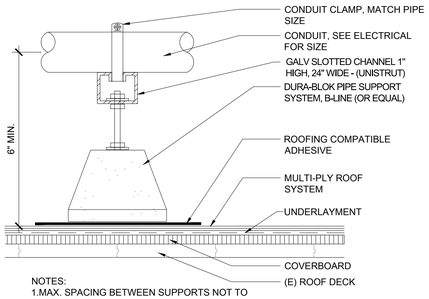
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

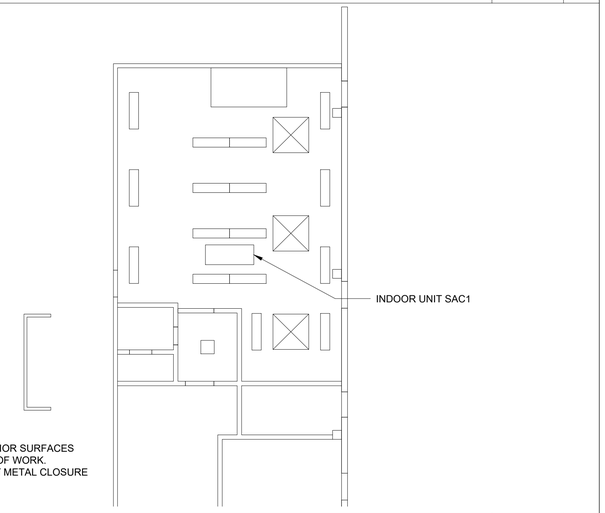
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

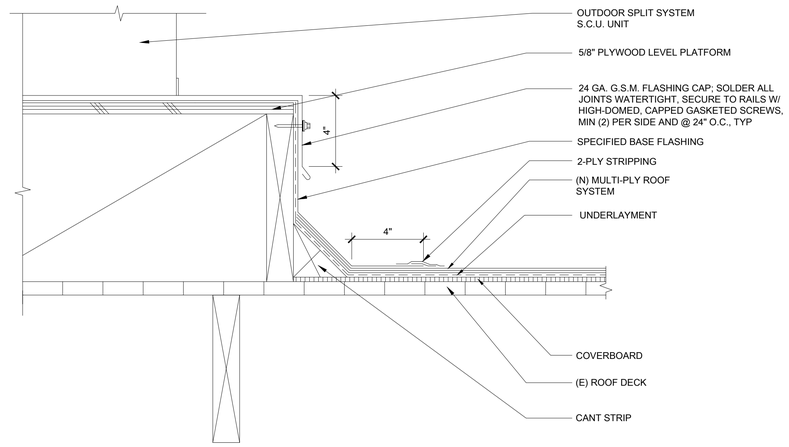
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

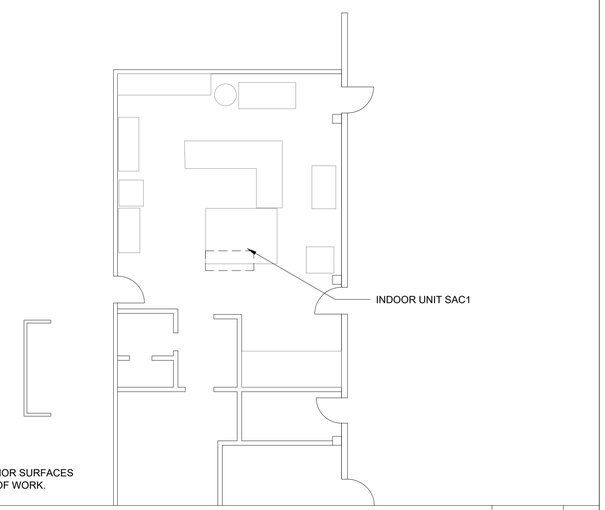
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
KENNEDY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
		TOF	TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
		WWF	WELDED WIRE FABRIC
JT	JACK TRUSS	WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .581

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p = 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-035

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

S1.0

NOT USED

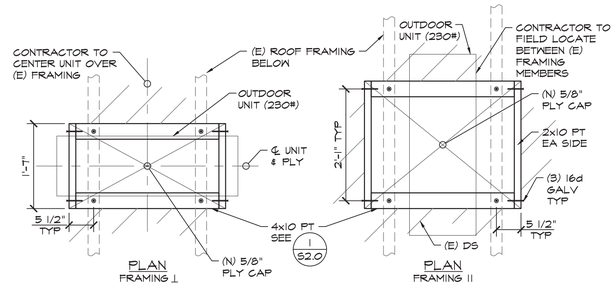
5 / S2.0

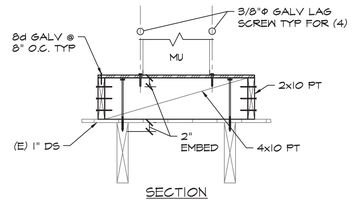
= 1'-0"

NOT USED

6 / S2.0

= 1'-0"

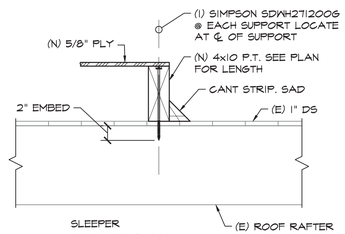




OUTDOOR UNIT ANCHORAGE
DETAIL

7 / S2.0

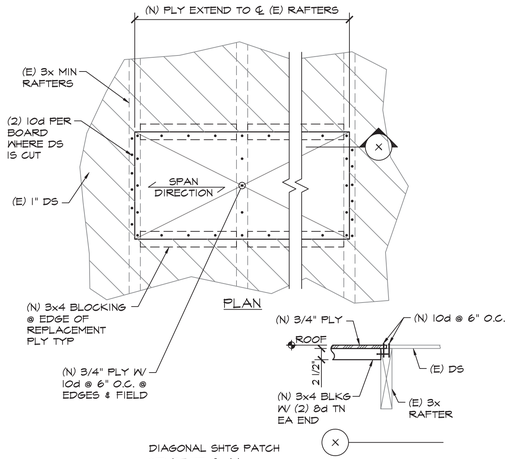
3/4" = 1'-0" 022DET007_8x_DS



DETAIL

1 / S2.0

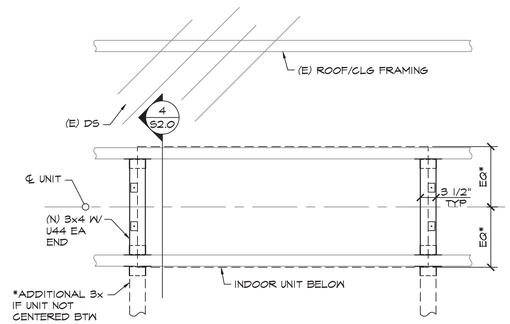
1" = 1'-0" 022DET001



DIAGONAL SHTG PATCH
DETAIL

2 / S2.0

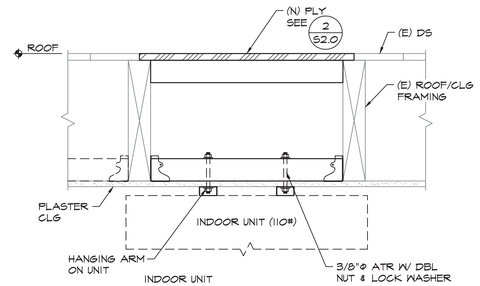
3/4" = 1'-0" 022DET002



INDOOR UNIT
DETAIL

3 / S2.0

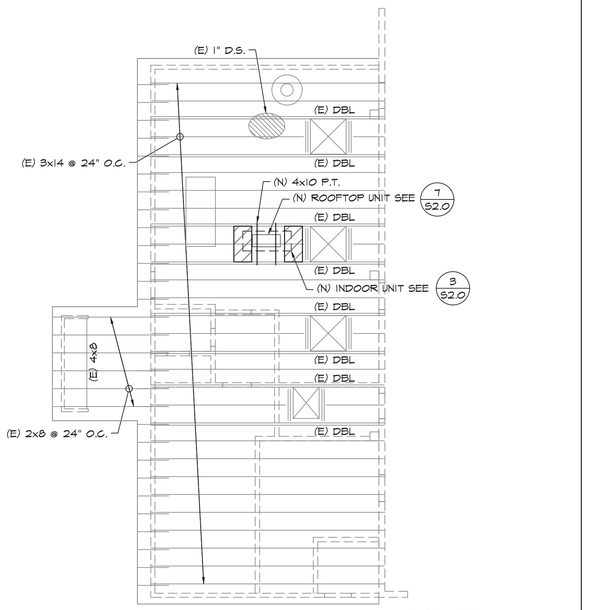
3/4" = 1'-0" 022DET003



INDOOR UNIT
DETAIL

4 / S2.0

1 1/2"= 1'-0" 022DET004



KITCHEN
ROOF FRAMING PLAN

A / S2.0

1/8" = 1'-0"

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

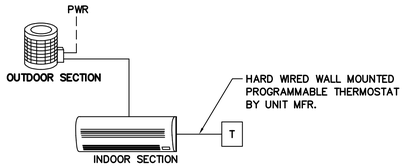
PROJECT #:
2023-035

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	①②③④

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND		AND	Yes	AND		AND		AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

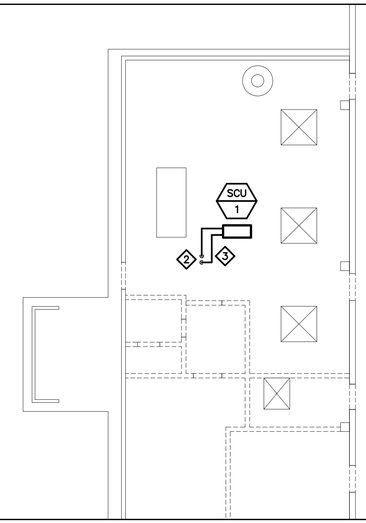
QC
INI	%

SHEET NOTES:

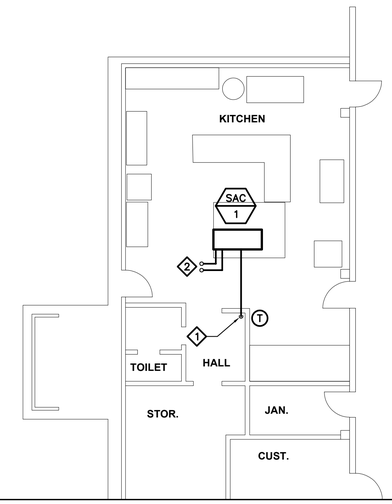
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD(D) ALONG INTERIOR OF WATER HEATER ROOM WALL. OFFSET THRU WALL BELOW SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN 1/8" = 1'-0" **1**



HVAC FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

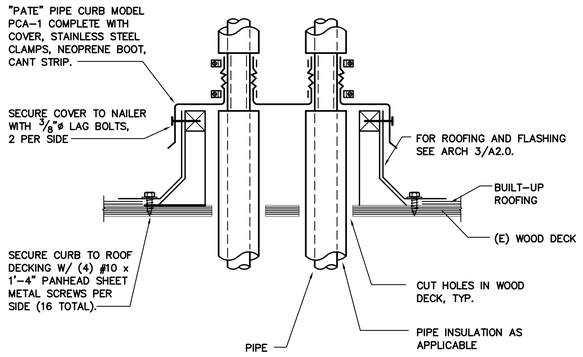
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

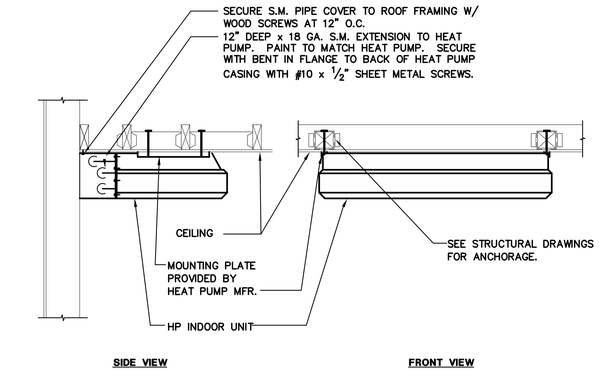
M2.0



PIPE THRU ROOF

SCALE : NONE

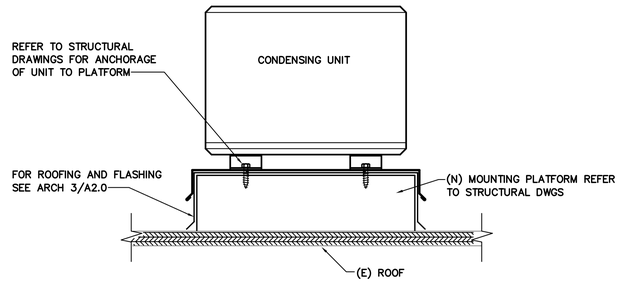
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

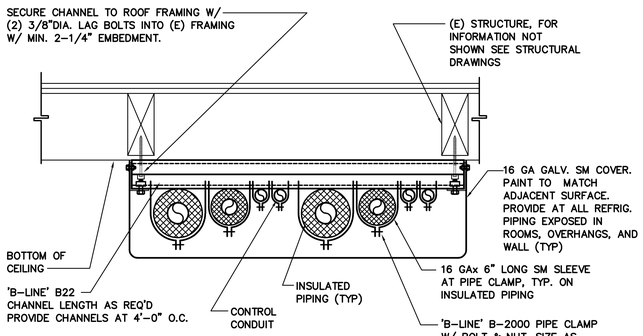
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:

1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

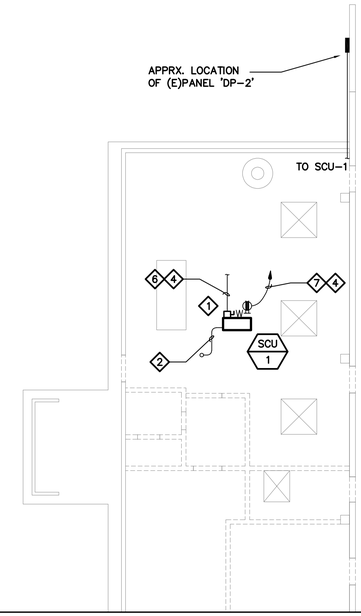
QC
INI	%

SHEET NOTES:

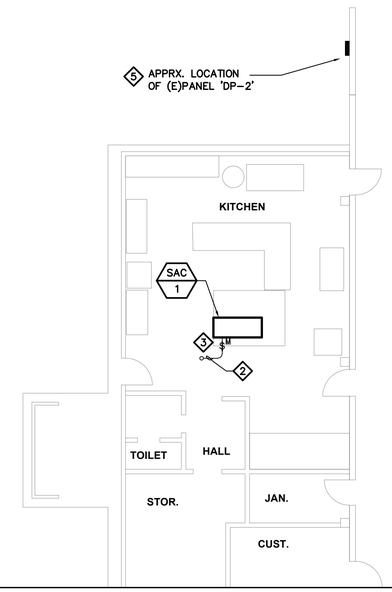
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN STRAP TO EXISTING UNISTRUT AND ELLED DOWN TO GO TO PANEL 'DP-2'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

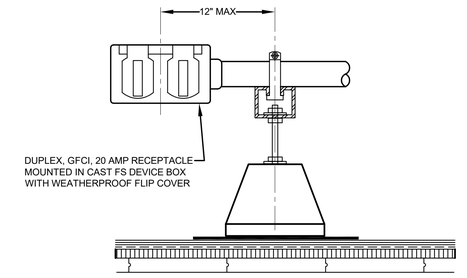
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

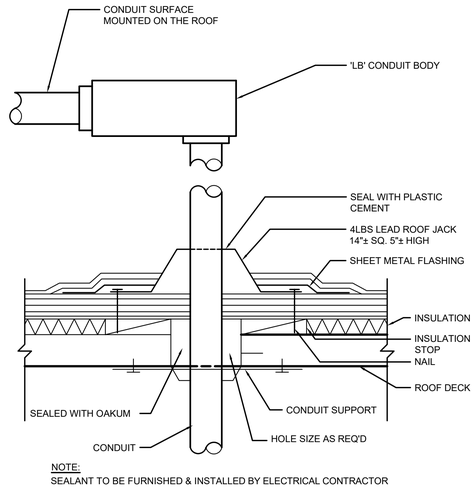


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Kennedy E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

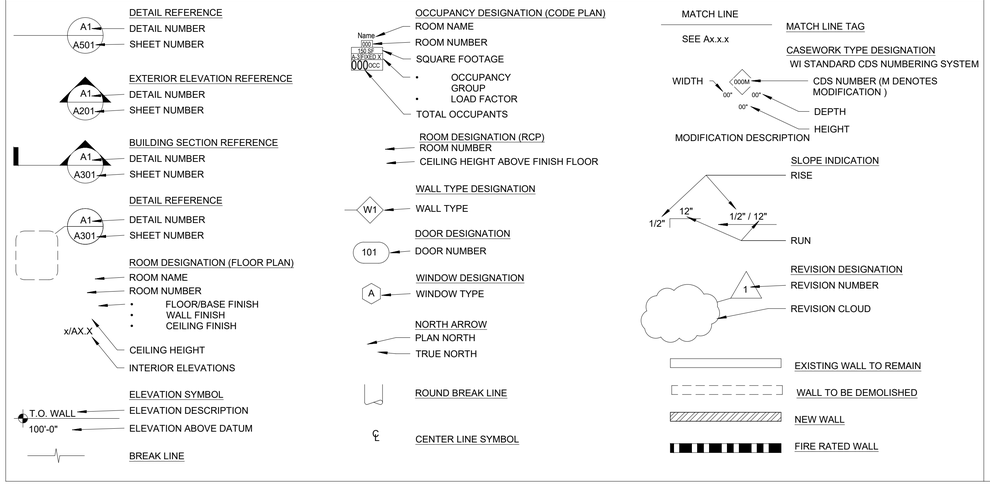
KING AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

2640 East Lafayette St,Stockton, CA 95205

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT	**J**		RH	RELATIVE HUMIDITY
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER	JAN	JANITOR	RM	ROOM
AD	AREA DRAIN	EXP	EXPOSED			RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR	**K**	(NOT USED)	RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT					RWL	RAIN WATER LEADER
ALUM	ALUMINUM	**F**		**L**			
ANOD	ANODIZED	F	FAHRENHEIT	LAB	LABORATORY	**S**	
ARCH	ARCHITECT	FA	FIRE ALARM	LAV	LAVATORY	S	SMOKE DETECTOR
@	AT	FACP	FIRE ALARM CONTROL PANEL	LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		FDC	FIRE DEPARTMENT CONNECTION			SCHED	SCHEDULE
B						SECT	SECTION
BD	BOARD			LLH	LONG LEG HORIZONTAL	SIM	SIMILAR
BLDG	BUILDING	FD	FLOOR DRAIN	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION
BO	BOTTOM OF	FEC	FIRE EXTINGUISHER CABINET	LPT	LOW POINT	SS	STAINLESS STEEL
						STD	STANDARD
C		FE	FIRE EXTINGUISHER	**M**		STS	SELF TAPPING SCREW
C	CELSIUS	FG	FINISH GRADE	MACH RM	MACHINE ROOM	STRUCT	STRUCTURAL
CH	COAT HOOK	FHC	FIRE HOSE CABINET	MAX	MAXIMUM		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FIN	FINISH	MFR	MANUFACTURER	**T**	
		FLR	FLOOR	MECH	MECHANICAL	T	TREAD
CG	CORNER GUARD	FND	FOUNDATION	MEZZ	MEZZANINE	TEL	TELEPHONE
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING	MIN	MINIMUM	TEMP	TEMPORARY
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE	MO	MASONRY OPENING	THK	THICK
CL	CENTER LINE	FOM	FACE OF MASONRY			TOC	TOP OF CONCRETE
CLG	CEILING	FOS	FACE OF STUD	**N**		TOM	TOP OF MASONRY
CLO	CLOSET	FOW	FACE OF WALL	NA	NOT APPLICABLE	TOP	TOP OF PARAPET
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM	NIC	NOT IN CONTRACT	TOS	TOP OF SLAB; TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE	NOM	NOMINAL	TOW	TOP OF WALL
COL	COLUMN	FT	FEET	NTS	NOT TO SCALE	TYP	TYPICAL
CONC	CONCRETE	FV	FIELD VERIFY			TO	TOP OF
CONT	CONTINUOUS			**O**			
CORR	CORRIDOR	**G**		OC	ON CENTER	**U**	
CT	CERAMIC TILE	GA	GAUGE	OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	UL	UNDERWRITER'S LABORATORIES
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED			UNO	UNLESS NOTED OTHERWISE
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE	OFD	OVERFLOW DRAIN		
				OH DR	OVERHEAD DOOR	**V**	
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM	OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
D	DEEP			OPP	OPPOSITE	VERT	VERTICAL
DEG	DEGREE	GL	GLASS	ORIG	ORIGINAL	VEST	VESTIBULE
DEMO	DEMOLITION	GWB	GYPSUM WALL BOARD	**P**		VIF	VERIFY IN FIELD
DF	DRINKING FOUNTAIN	GYP	GYPSUM	P LAM	PLASTC LAMINATE		
DIA	DIAMETER			PLAS	PLASTER	**W**	
DIM	DIMENSION	**H**		PLUMB	PLUMBING	W/	WITH
DN	DOWN	H	HIGH	PR	PAIR	W/O	WITHOUT
DS	DOWNSPOUT	HB	HOSE BIBB	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DWGS	DRAWINGS	HDR	HEADER	PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
		HM	HOLLOW METAL	PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
E		HPT	HIGH POINT			WRB	WEATHER RESISTIVE BARRIER
E	EXISTING	HR	HOUR	**Q**			
EA	EACH	HT	HEIGHT	QT	QUARRY TILE	X,Y,Z	NOT USED
EJ	EXPANSION JOINT						
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**		R		THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.	
				R	RISER OR RADIUS		
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION	RAD	RADIUS		
ELEC	ELECTRICAL			RCP	REFLECTED CEILING PLAN		
ELEV	ELEVATOR	IN	INCH	RD	ROOF DRAIN		
EOS	EDGE OF SLAB	INFO	INFORMATION	REF	REFRIGERATOR		
ERD	EXISTING ROOF DRAIN	INT	INTERIOR	REQD	REQUIRED		
EQ	EQUAL			REV	REVISION		

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
KING E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

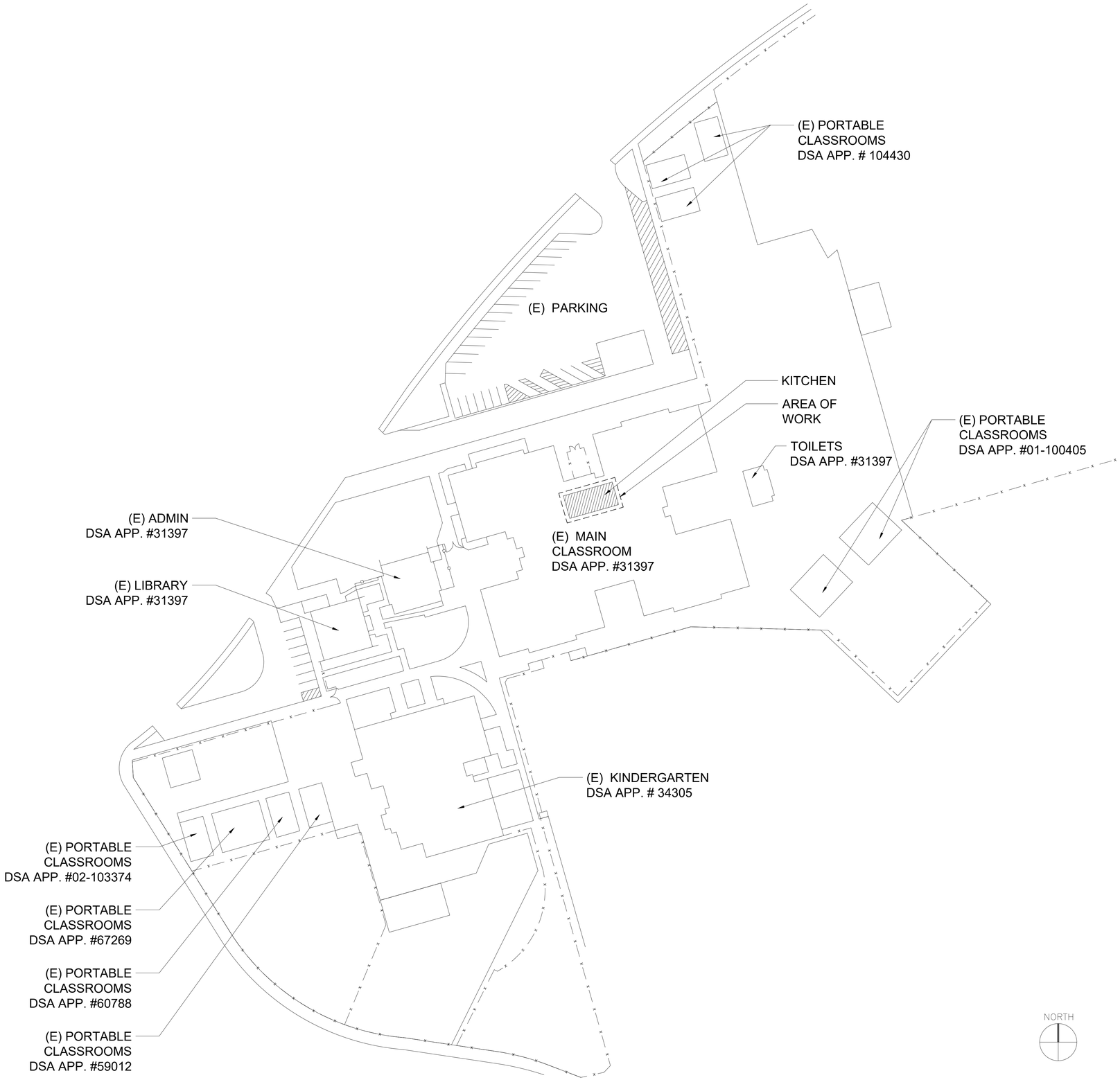
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
KING E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

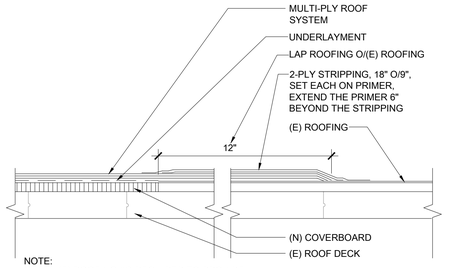
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

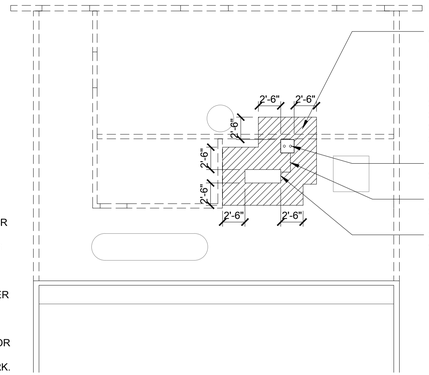
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

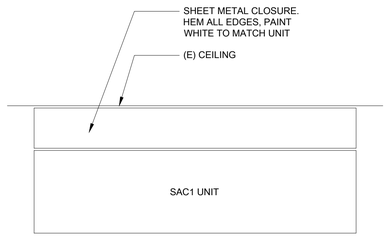
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

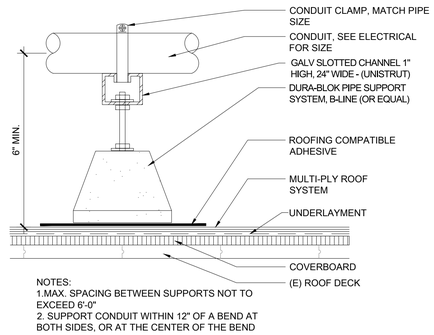
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

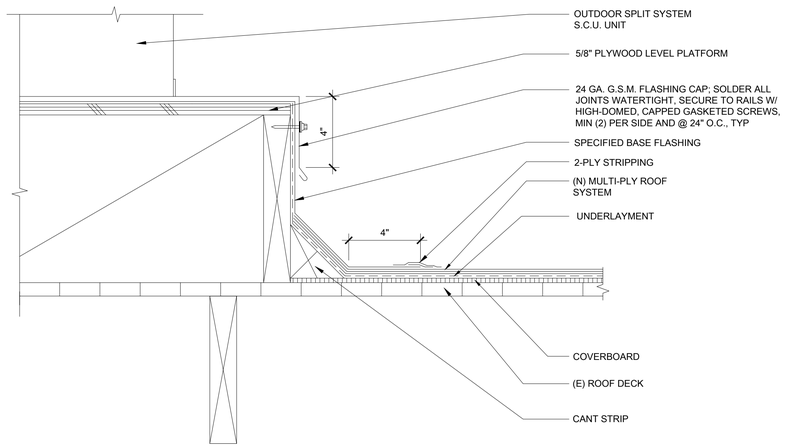
CONDUIT SUPPORT

3" = 1'-0" | 2

NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

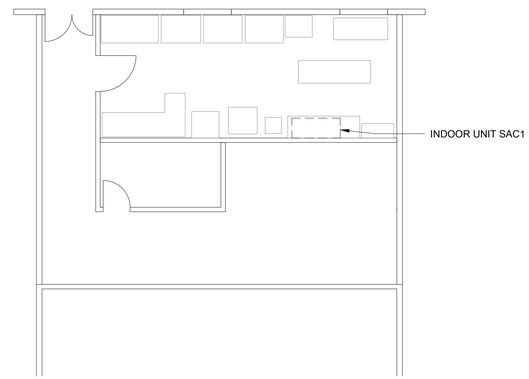
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
KING E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LON POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
BEV	BEVELED	LT WT	LIGHT WEIGHT
BOC	BOTTOM OF CONCRETE	LVL	LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSS	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PREGAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD		
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
		TOF	TOP OF FOOTING
HDG	HOT DIPPED GALVANIZED		TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

SCHEDULE OF SPECIAL INSPECTIONS:

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION AND TESTING PER CBC SECTION 1704A & 1705A. THIS WORK SHALL BE PERFORMED BY A SPECIAL INSPECTOR QUALIFIED TO PERFORM THE TYPES OF INSPECTIONS AND TESTS SPECIFIED HEREIN. THE FREQUENCY OF TESTING SHALL BE IN ACCORDANCE, BUT NOT LIMITED, TO THE CBC TABLE ITEMS LISTED BELOW. DEFICIENCIES SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR. SUMMARY REPORTS SHALL BE DISTRIBUTED WEEKLY TO THE OWNER, ARCHITECT, CONTRACTOR, AND STRUCTURAL ENGINEER. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION AND TESTING.

LEGEND

	R	← REQUIRED
	C	← CONTINUOUS
	P	← PERIODIC
		← NOT PART OF THIS PROJECT
X		← REQUIRED FOR THIS PROJECT

STEEL CONSTRUCTION

MATERIAL VERIFICATION OF STRUCTURAL STEEL:

X	R	MANUFACTURERS' CERTIFIED MILL TEST REPORTS.

MATERIAL VERIFICATION OF WELD FILLER MATERIAL:

X	R	MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED.

INSPECTION OF WELDING:

STRUCTURAL STEEL

X	P	SINGLE-PASS FILLET WELDS ≤ 5/16"

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

STRUCTURAL STEEL:

1. FABRICATION, ERECTION, AND MATERIALS SHALL CONFORM WITH THE AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND 2022 CBC.
2. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   - A. WIDE FLANGE BEAMS & COLUMNS (UNO).....ASTM-A992 (Fy = 50 ksi)
   - B. ANGLES (UNO)..... ASTM-A36
   - C. M, S, C, MC, (UNO) ASTM-A36
   - D. HP, WT, MT & ST .....ASTM-A4922 (Fy = 50 ksi)
   - E. RECTANGULAR HSS SHAPES (UNO).....ASTM-A500 GRADE C (Fy=50 ksi)
   - F. ROUND HSS SHAPES (UNO).....ASTM-A500 GRADE C (Fy = 46 ksi)
   - G. PIPES (UNO).....ASTM-A53, TYPE E OR S, GRADE B (Fy = 35 ksi)
   - H. PLATES, BARS & MISC. (UNO).....ASTM-A36
   - I. ANCHOR RODS (UNO)...ASTM-F1554 (Fy=36ksi)
3. WELDING DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH "AWS". STANDARDS:
   PROVIDE E70XX ELECTRODES FOR ALL WELDS UNO.
   USE ONLY CERTIFIED WELDERS. ALL BUTT WELDS SHALL HAVE COMPLETE PENETRATION. ALL EXPOSED BUTT WELDS SHALL BE GROUND.
4. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
5. HOLES FOR UNFINISHED BOLTS SHALL BE OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
6. USE STANDARD AISC GAGE AND PITCH FOR BOLTS UNLESS NOTED OTHERWISE
7. HIGH STRENGTH BOLTS: 3/4" DIAMETER A325-N TYP UNO.
8. PAINT ALL EXPOSED STEEL W/ PRIMER.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .576

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p= .29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

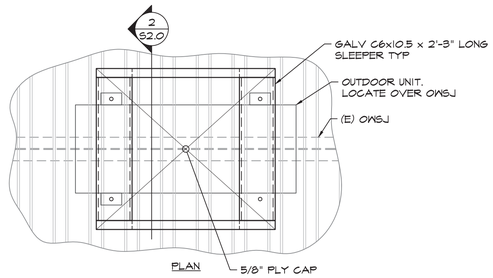
PROJECT #:
2023-027

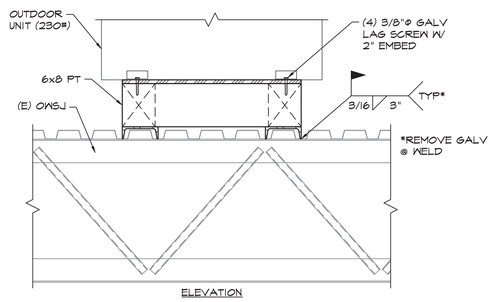
REVISION #:

DATE:
10/23/2024

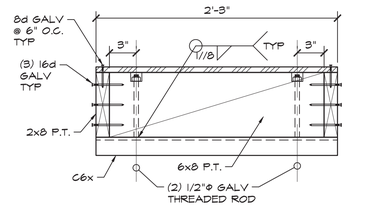
TYPICAL NOTES AND DETAILS

S1.0

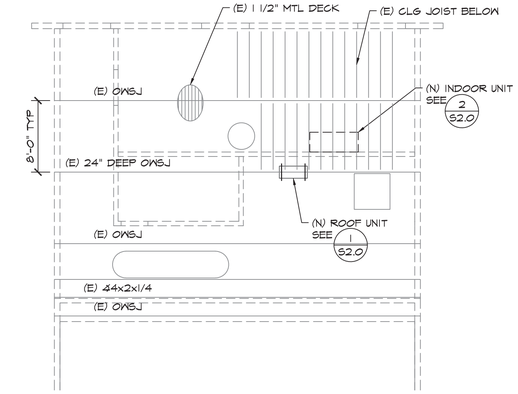




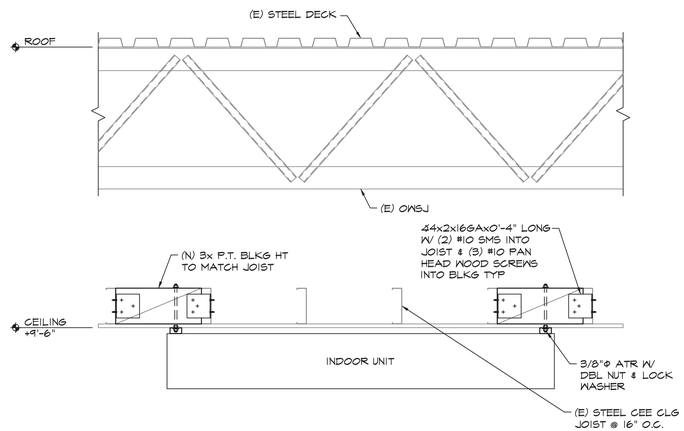
OUTDOOR UNIT
ANCHORAGE DETAIL
1 S2.0
1" = 1'-0" 027DETOO1_ONSJ



DETAIL
2 S2.0
1 1/2"= 1'-0" 027DET003_ONSJ



KITCHEN
ROOF FRAMING PLAN
A S2.0
1/8" = 1'-0"
N



INDOOR UNIT
ANCHORAGE DETAIL
3 S2.0
1" = 1'-0" 027DET002

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-027

REVISION #:

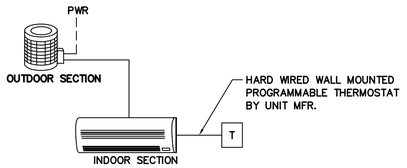
DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC

INI	%



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4 5

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M-33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
● All Other Occupancies					

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(j) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KAP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

QC
INI | %

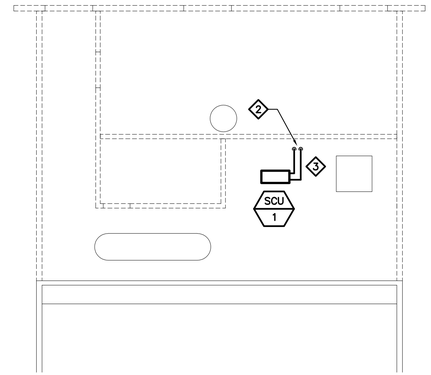
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

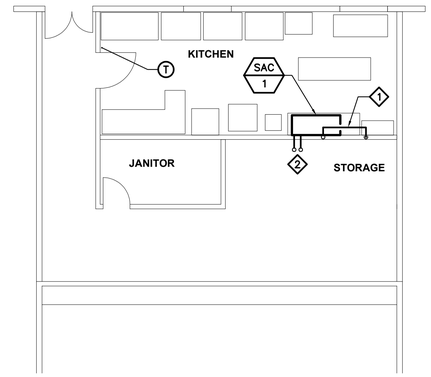
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE GYP CEILING AND DOWN THRU WALL TO BENEATH (E) SINK. DISCHARGE INTO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KYLE DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

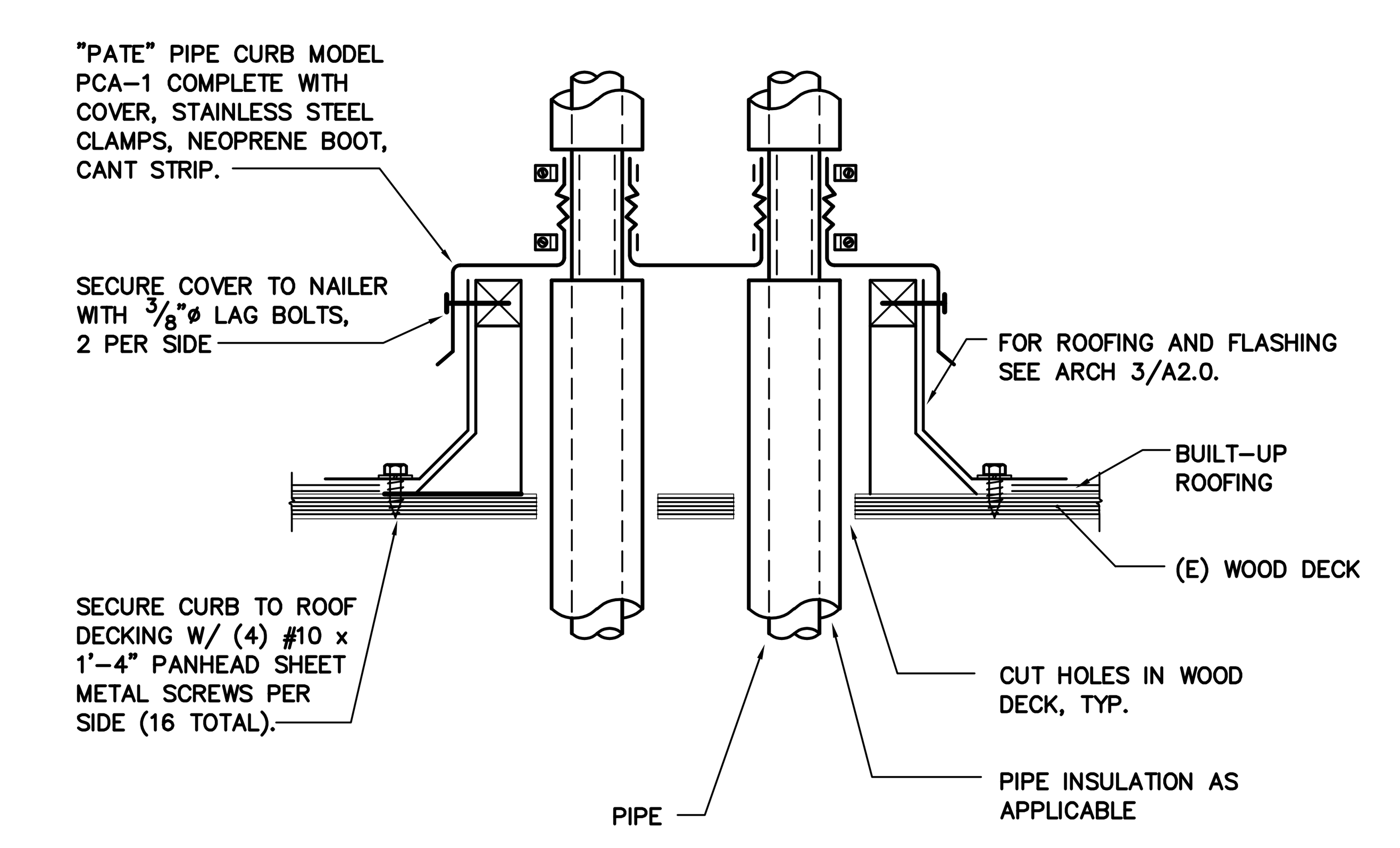
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

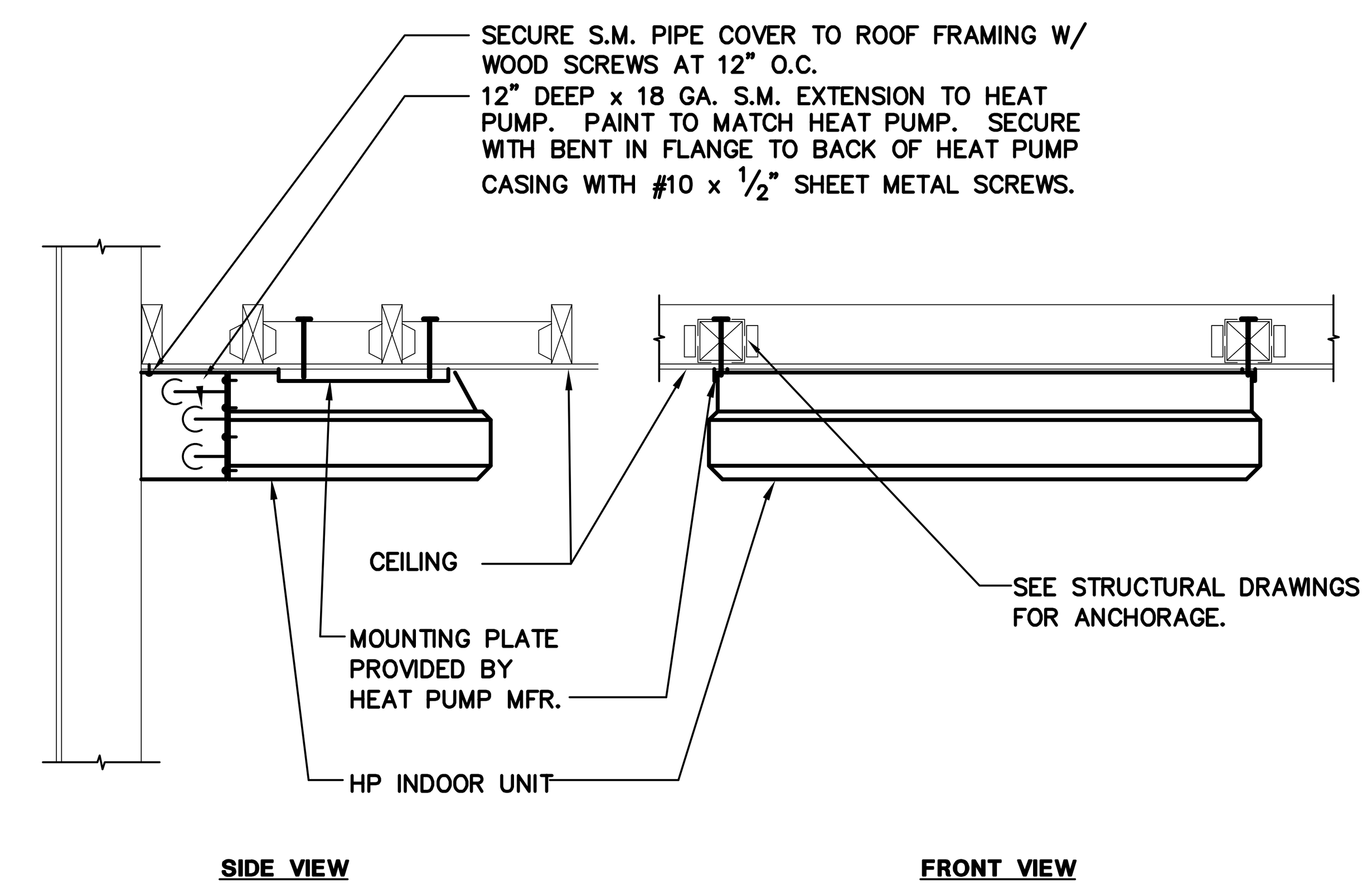
M2.0



PIPE THRU ROOF

SCALE : NONE

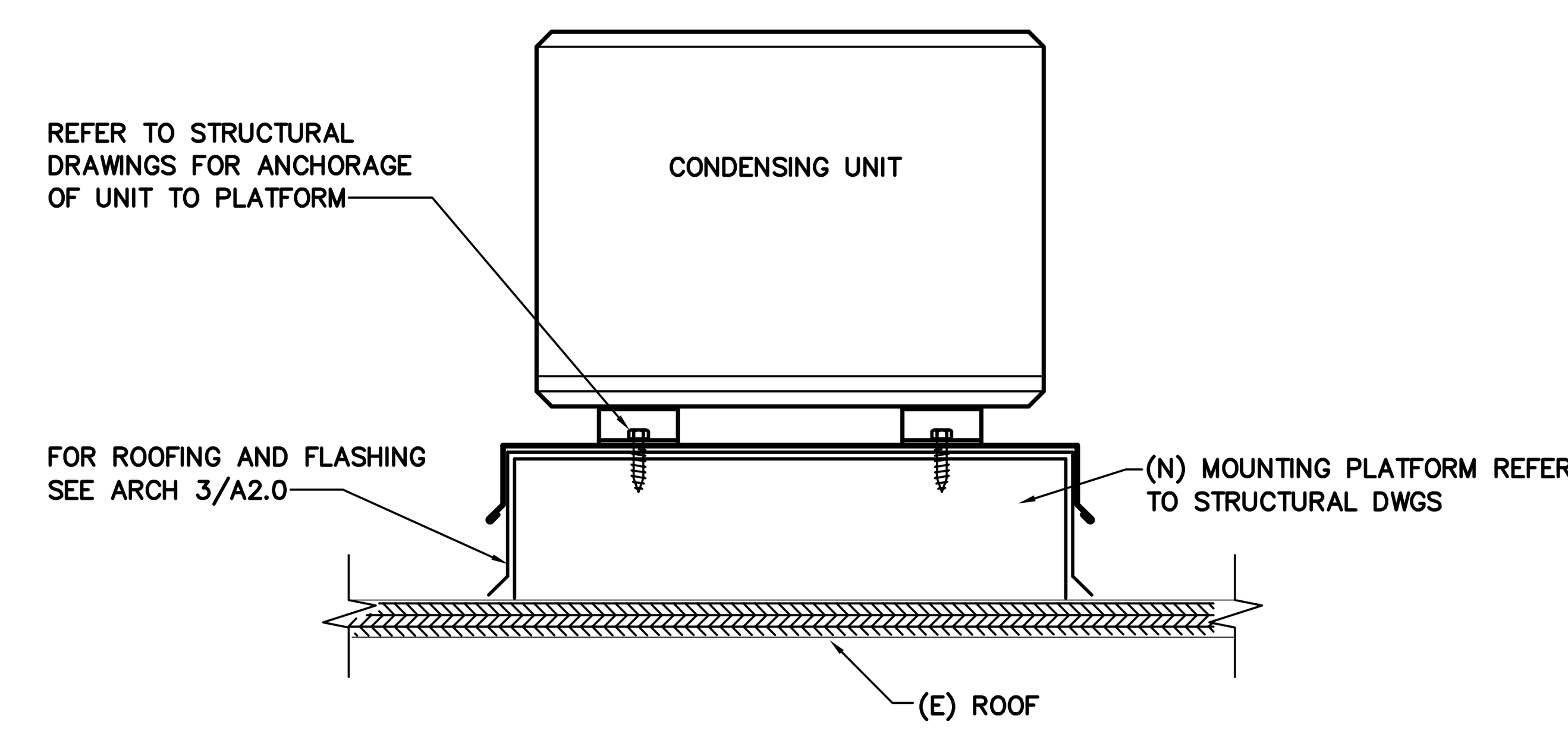
7
M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

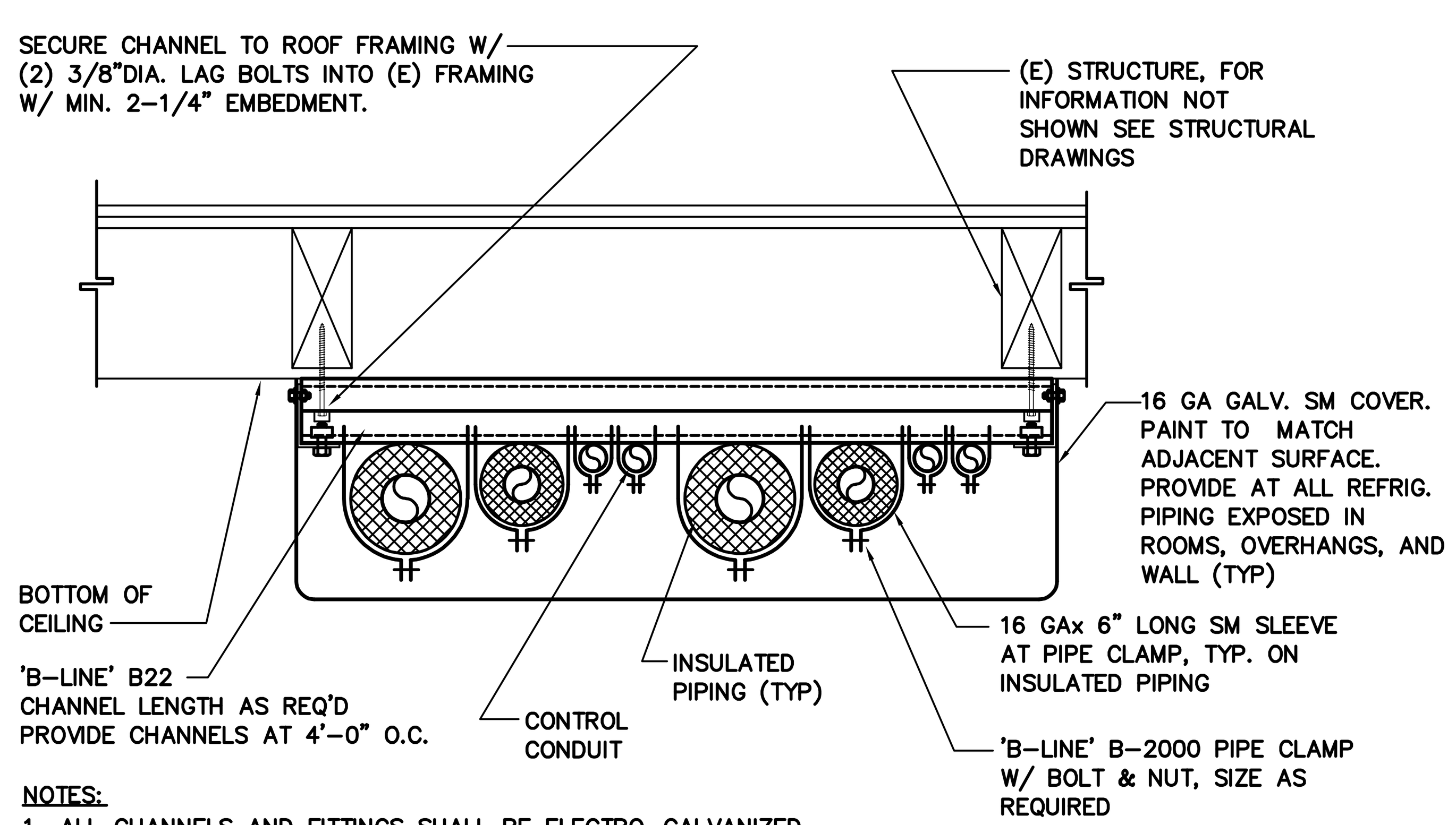
1
M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2
M5.0



NOTES:

1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9
M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33488 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

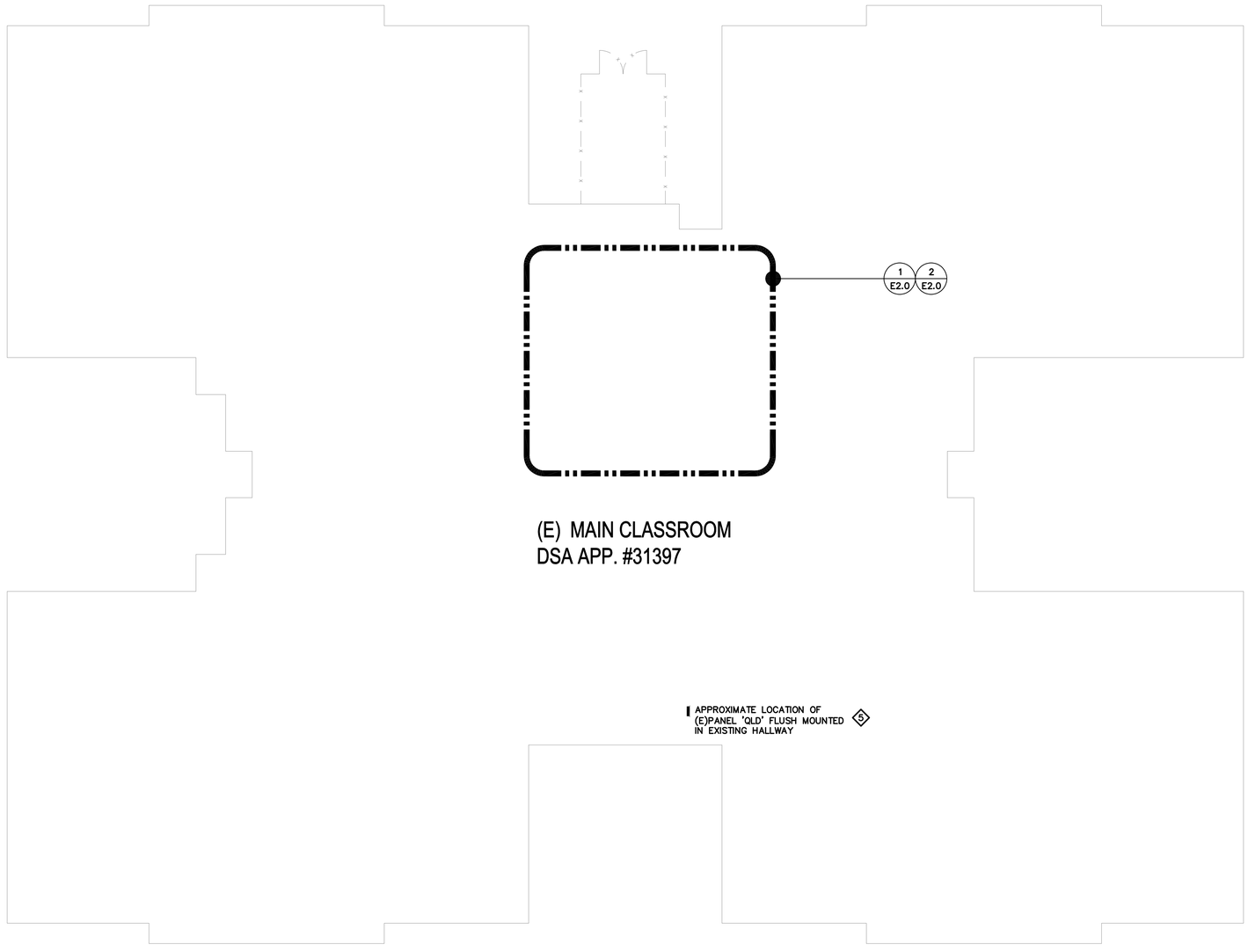
QC
INI	%

SHEET NOTES:

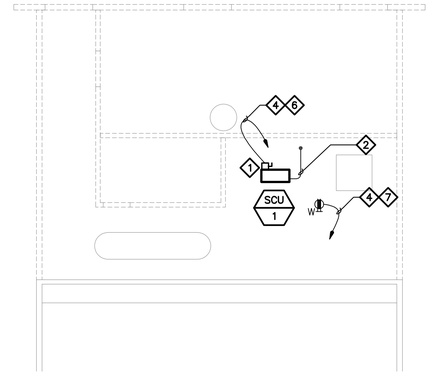
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

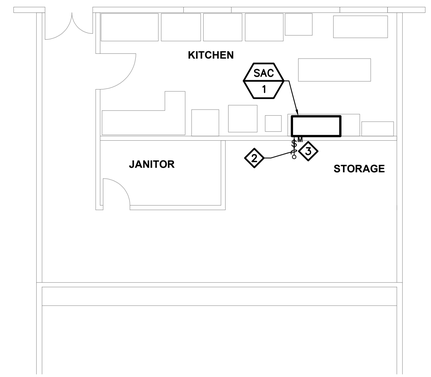
1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'QLD'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND



ELECTRICAL OVERALL PLAN 3/32" = 1'-0" **3**



ELECTRICAL ROOF PLAN 1/8" = 1'-0" **1**



ELECTRICAL FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

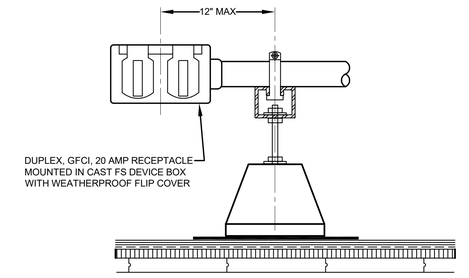
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

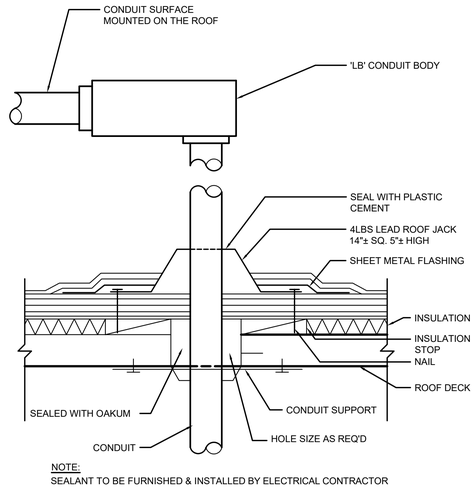


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
King E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

NIGHTINGALE AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

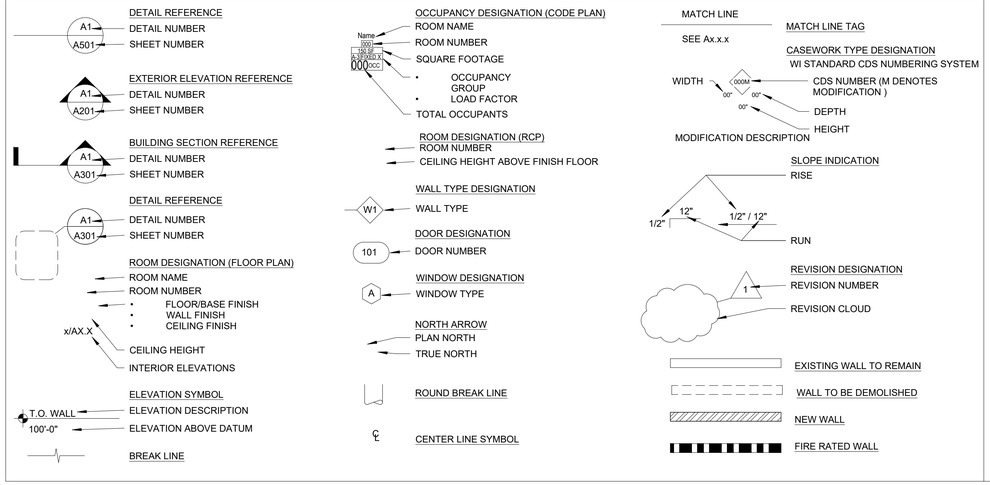
1721 Carpenter, Stockton, CA 95206

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
		UNO	UNLESS NOTED OTHERWISE
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR	**V**	
OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
OPP	OPPOSITE	VERT	VERTICAL
ORIG	ORIGINAL	VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
NIGHTINGALE E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

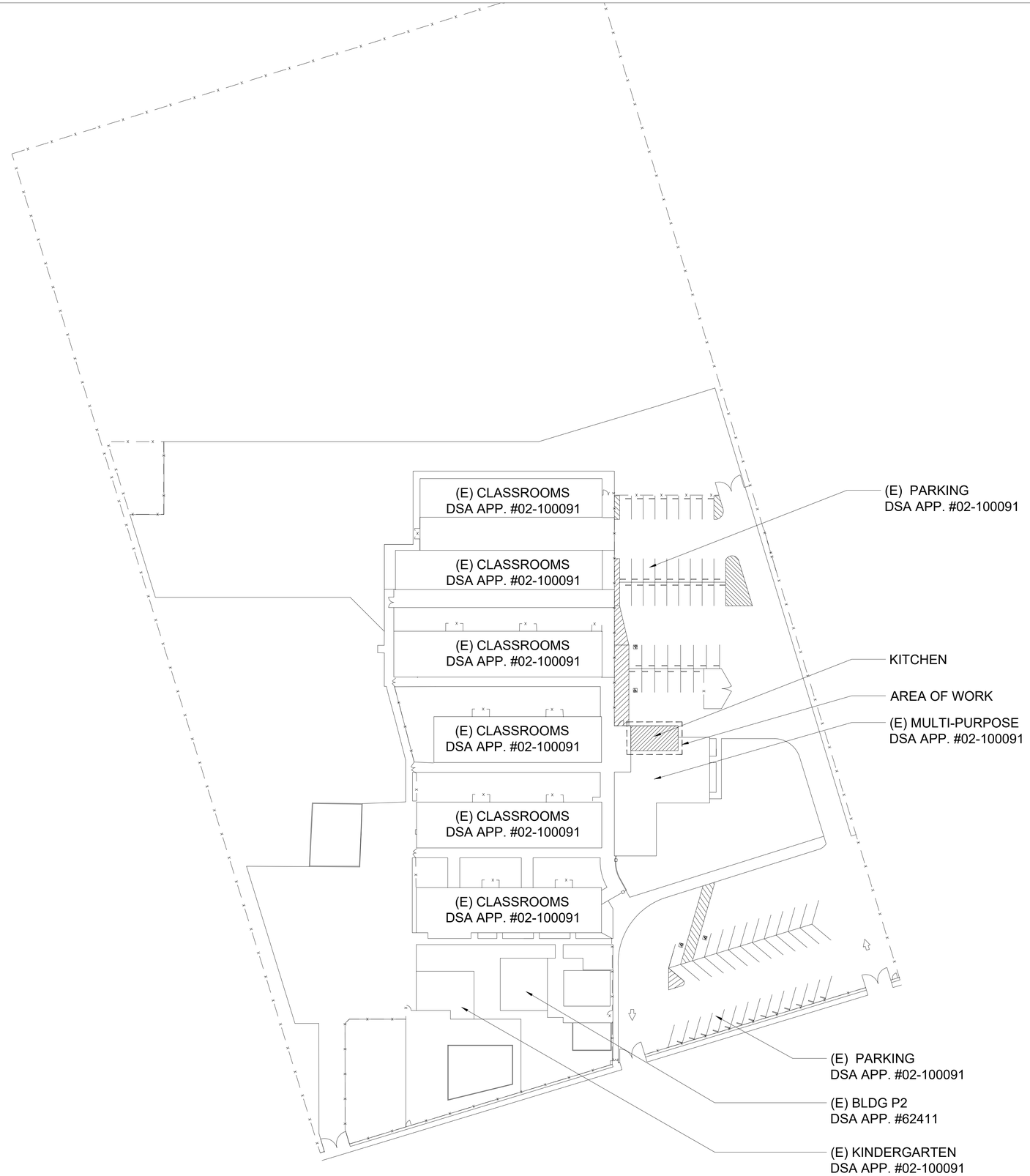
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
NIGHTINGALE E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

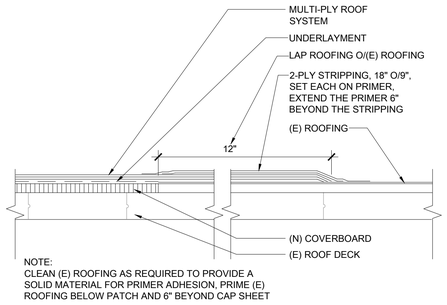
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

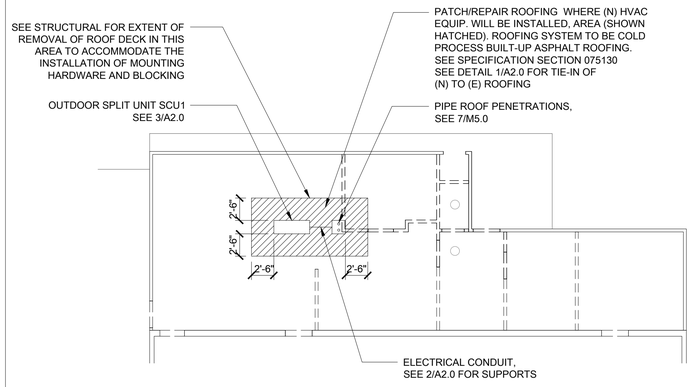
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

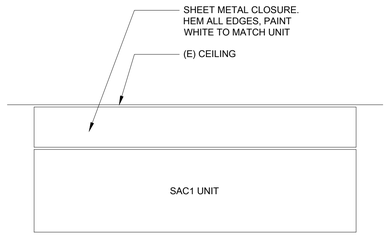
NEW TO EXISTING ROOFING TIE-IN

3" = 1'-0" | 1



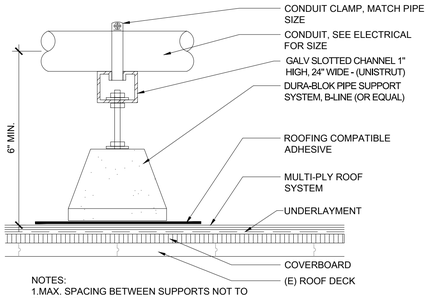
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

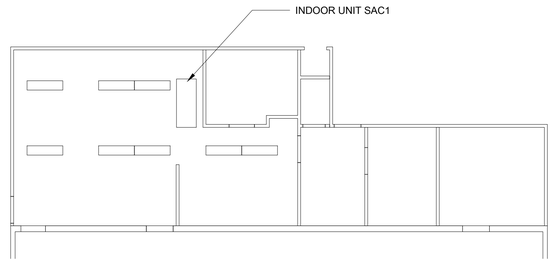
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

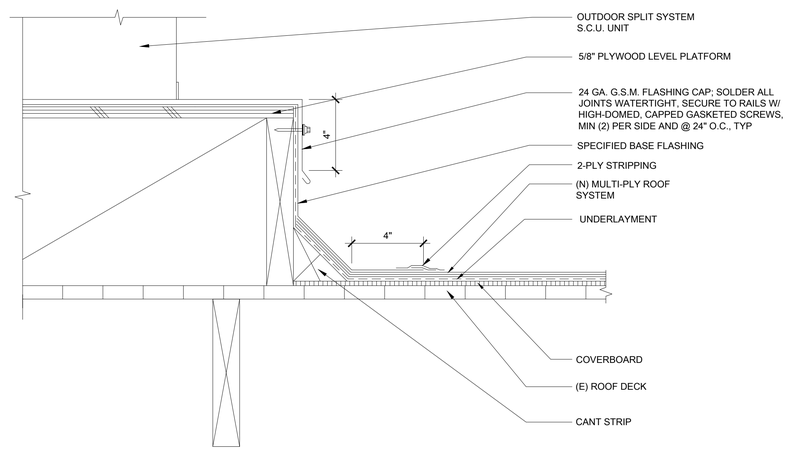
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

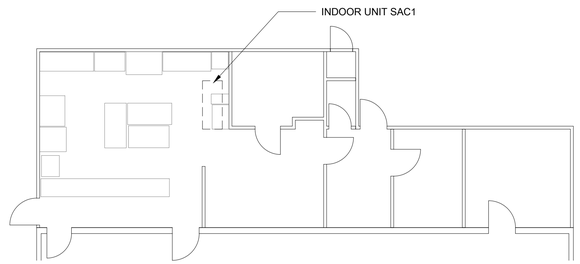
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
NIGHTINGALE E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PRECAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .589

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE F_p= 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

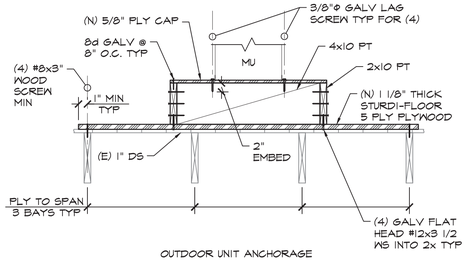
PROJECT #:
2023-026

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

S1.0



OUTDOOR UNIT ANCHORAGE SECTION (2x FRAMING)

8 / S2.0

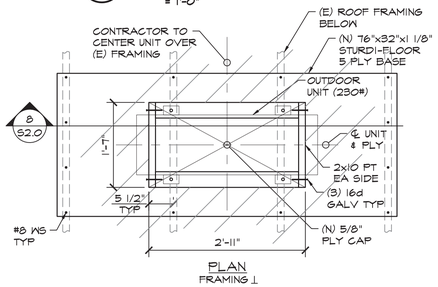
3/4" = 1'-0" 022DET008

5 / S2.0 NOT USED

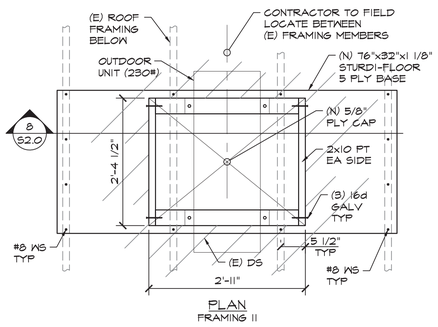
= 1'-0"

6 / S2.0 NOT USED

= 1'-0"



PLAN FRAMING I



PLAN FRAMING II

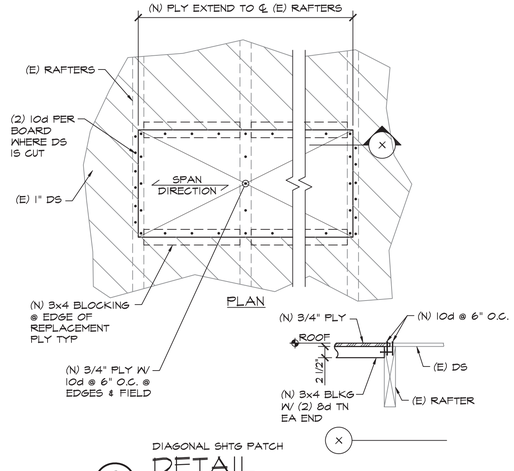
OUTDOOR UNIT ANCHORAGE DETAIL (2x FRAMING)

7 / S2.0

3/4" = 1'-0" 022DET007_8x_DS

1 / S2.0 NOT USED

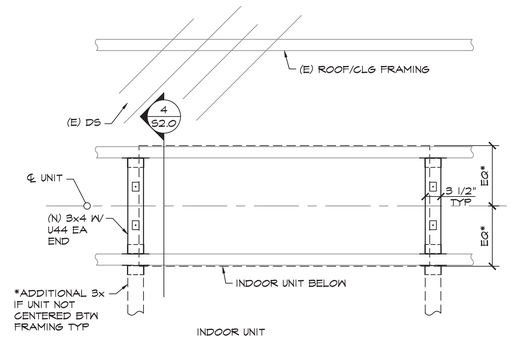
= 1'-0"



DIAGONAL SHTG PATCH DETAIL

2 / S2.0

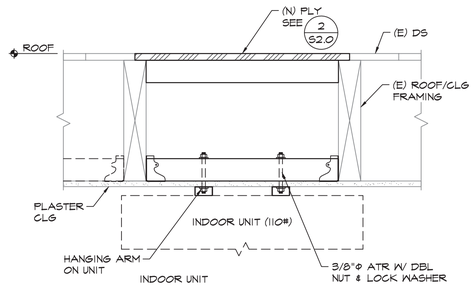
3/4" = 1'-0" 022DET002



INDOOR UNIT DETAIL

3 / S2.0

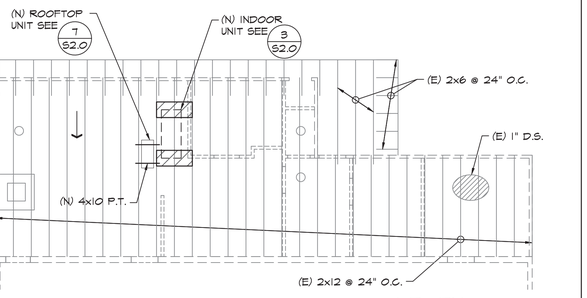
3/4" = 1'-0" 022DET003



INDOOR UNIT DETAIL

4 / S2.0

1 1/2"= 1'-0" 022DET004



KITCHEN ROOF FRAMING PLAN

A / S2.0

1/8" = 1'-0"

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-026

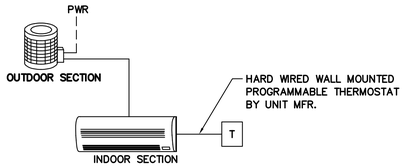
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
ƒ	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
(T)x	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
• All Other Occupancies					

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

QC	
INI	%

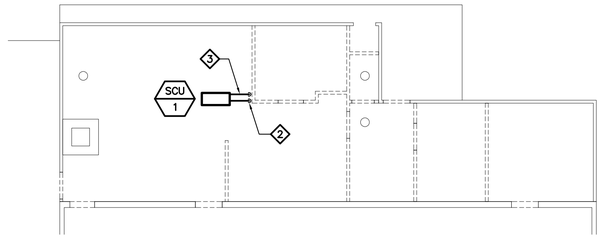
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

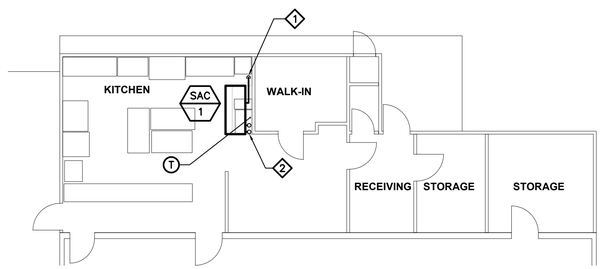
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. ROUTE 3/4" CD HIGH ON WALL (SEE 4/M5.0 FOR MOUNTING), THEN (D) WALL AND DISCHARGE TO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KYLE DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

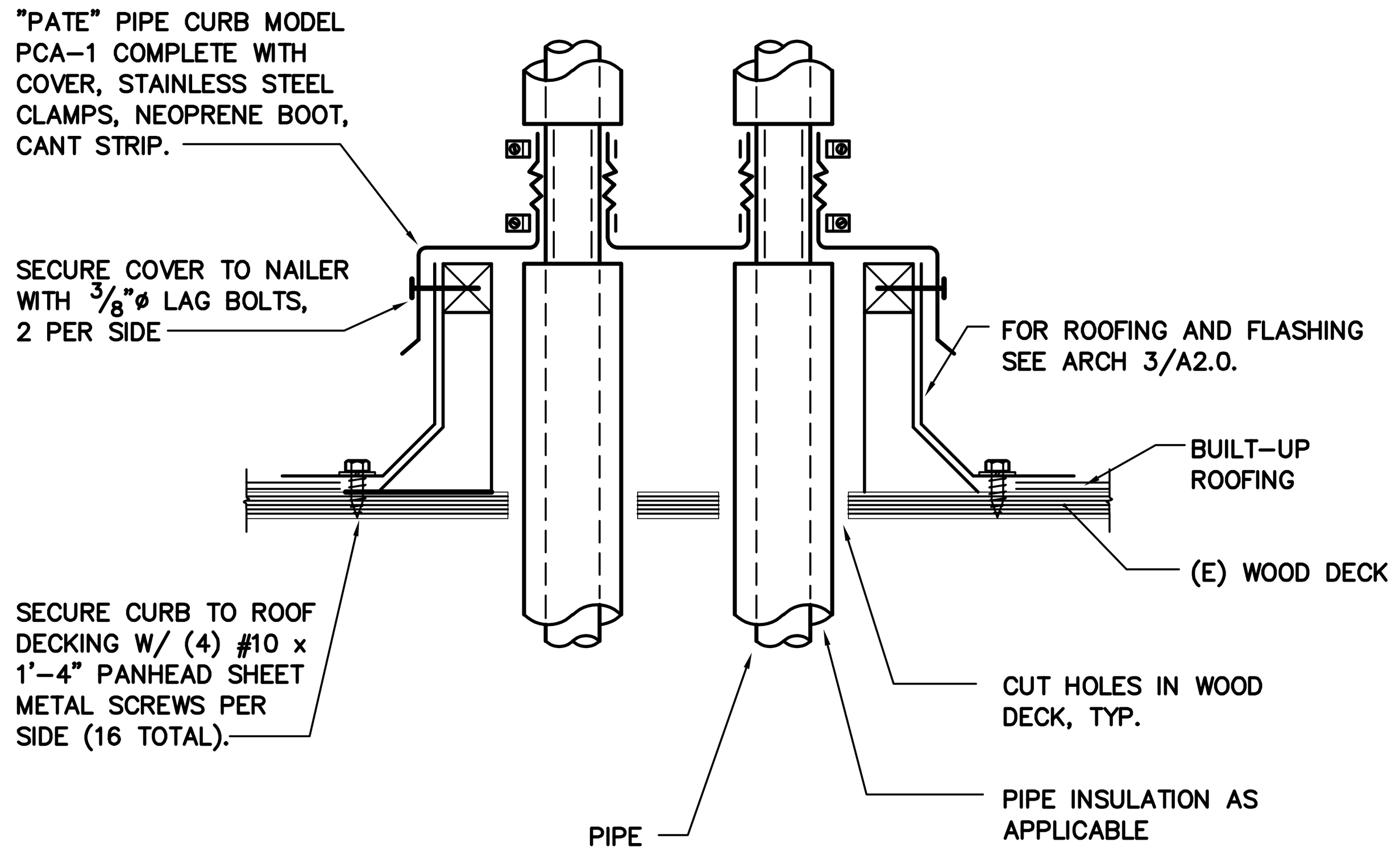
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

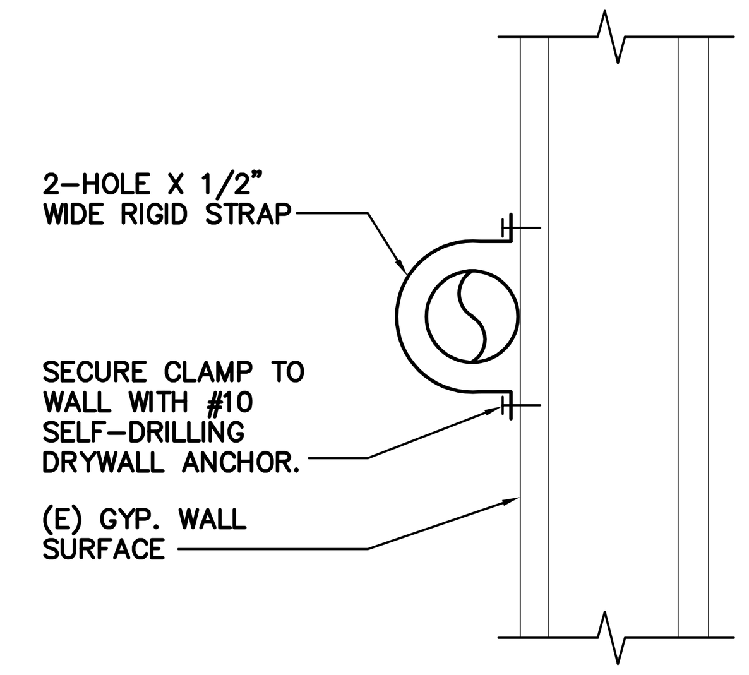
M2.0



PIPE THRU ROOF

SCALE : NONE

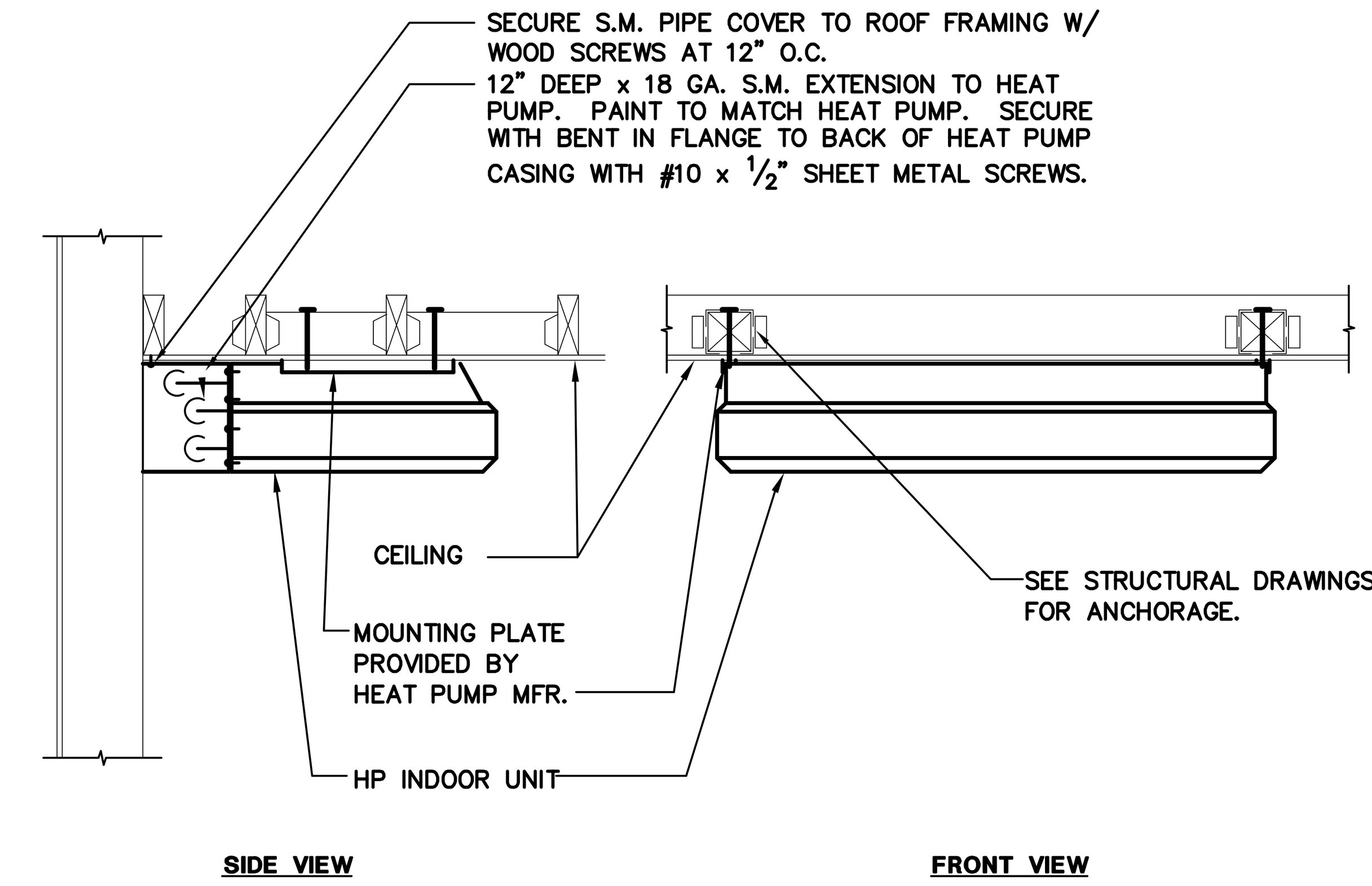
7 / M5.0



CD MOUNTING ON WALL

SCALE : NONE

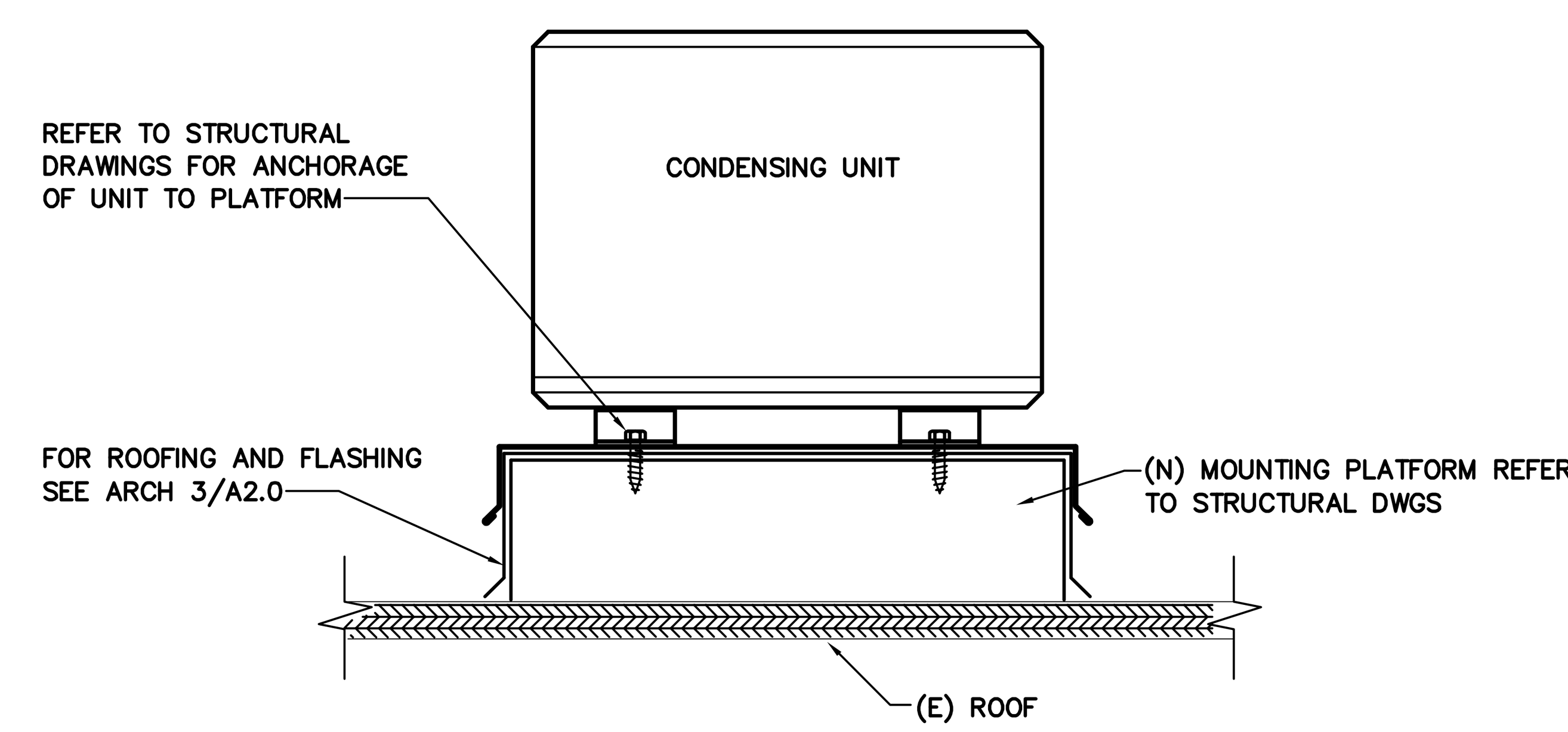
4 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

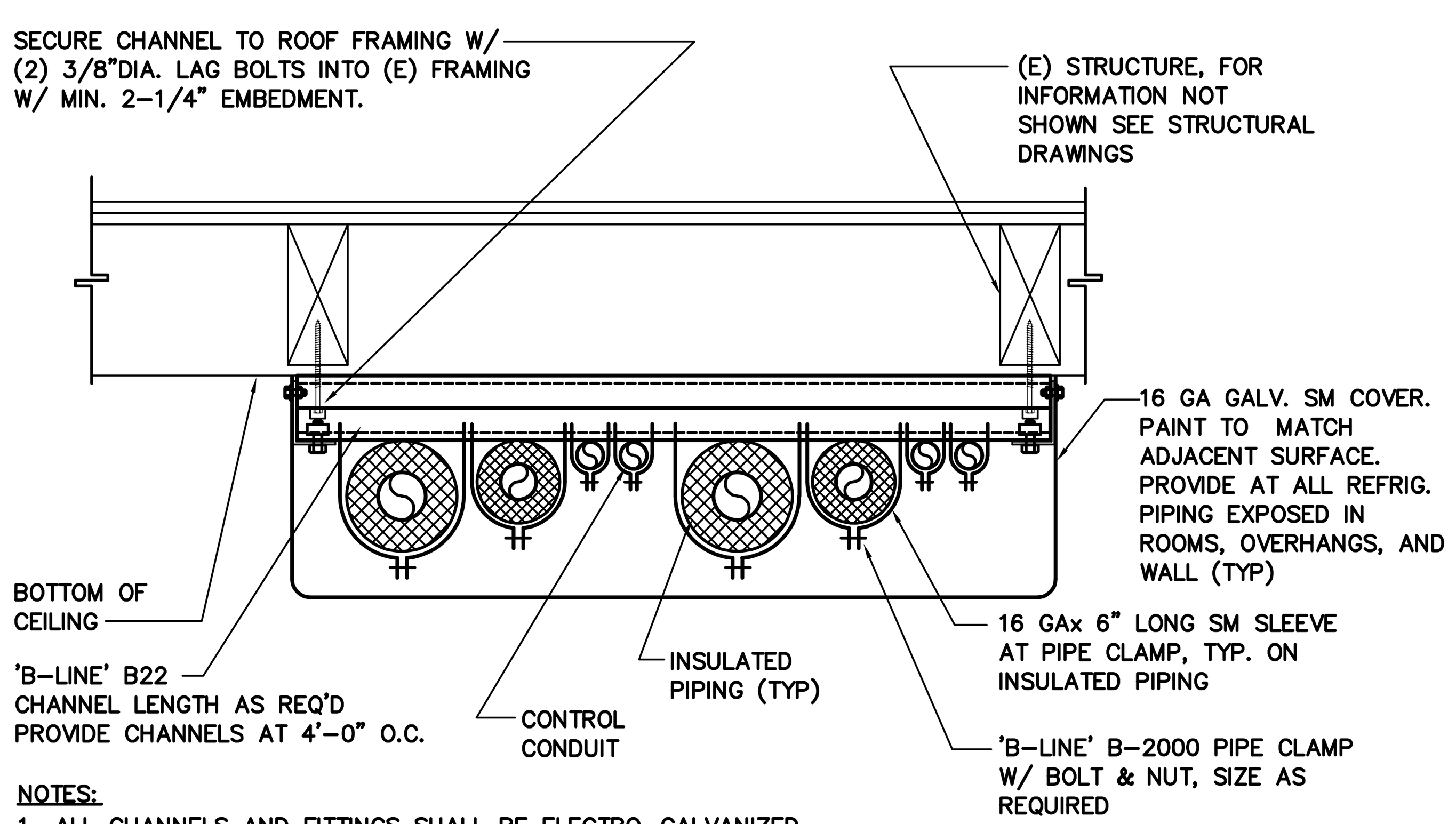
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

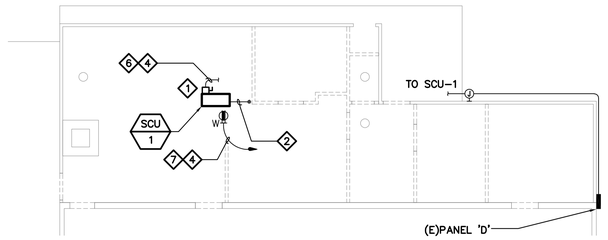
QC
INI	%

SHEET NOTES:

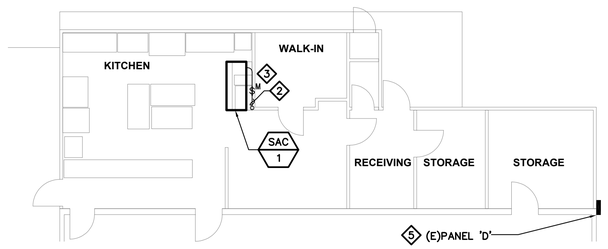
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE JUNCTION BOX SURFACE MOUNTED HIGH ON THE WALL. SURFACE MOUNT BRANCH CIRCUIT AND WIRING HIGH ON THE WALL, THEN ELLED DOWN TO PANEL 'D'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

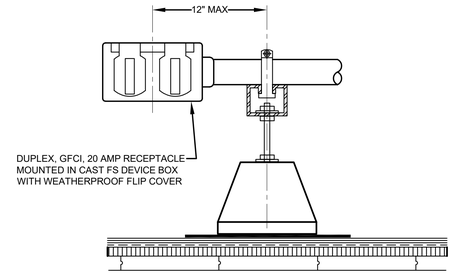
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

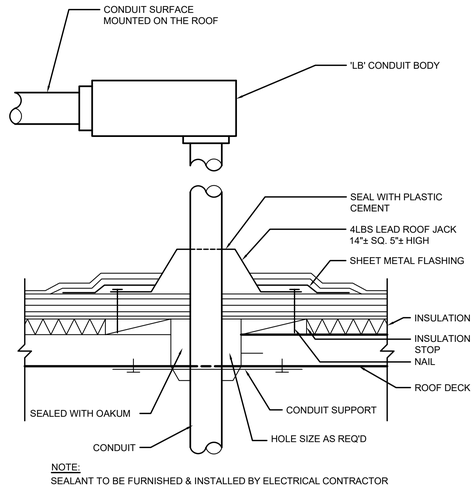


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KYLE DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Nightingale E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

LOTTIE GRUNSKY AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

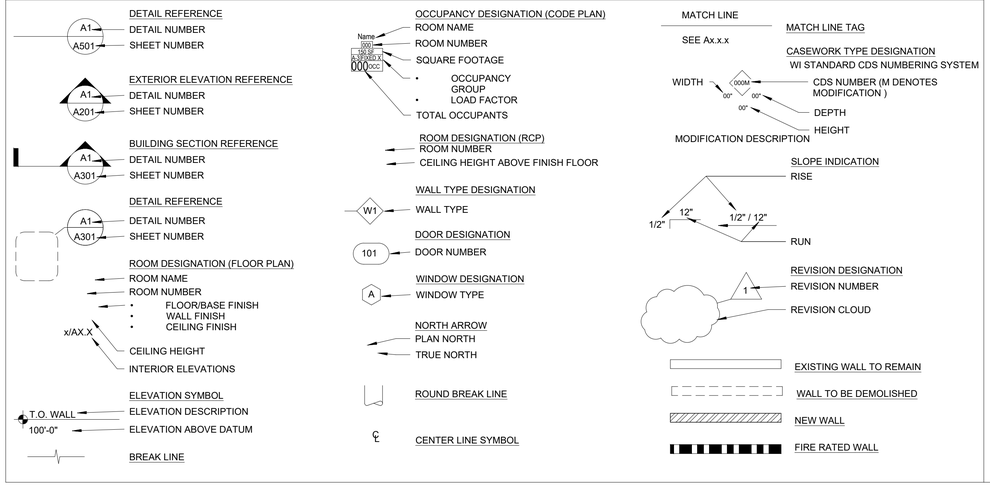
1550 N. School Ave, Stockton, CA 95205

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
OFD	OVERFLOW DRAIN	UNO	UNLESS NOTED OTHERWISE
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND	**V**	
OPP	OPPOSITE	VCT	VINYL COMPOSITE TILE
ORIG	ORIGINAL	VERT	VERTICAL
		VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
LOTTIE GRUNSKY E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

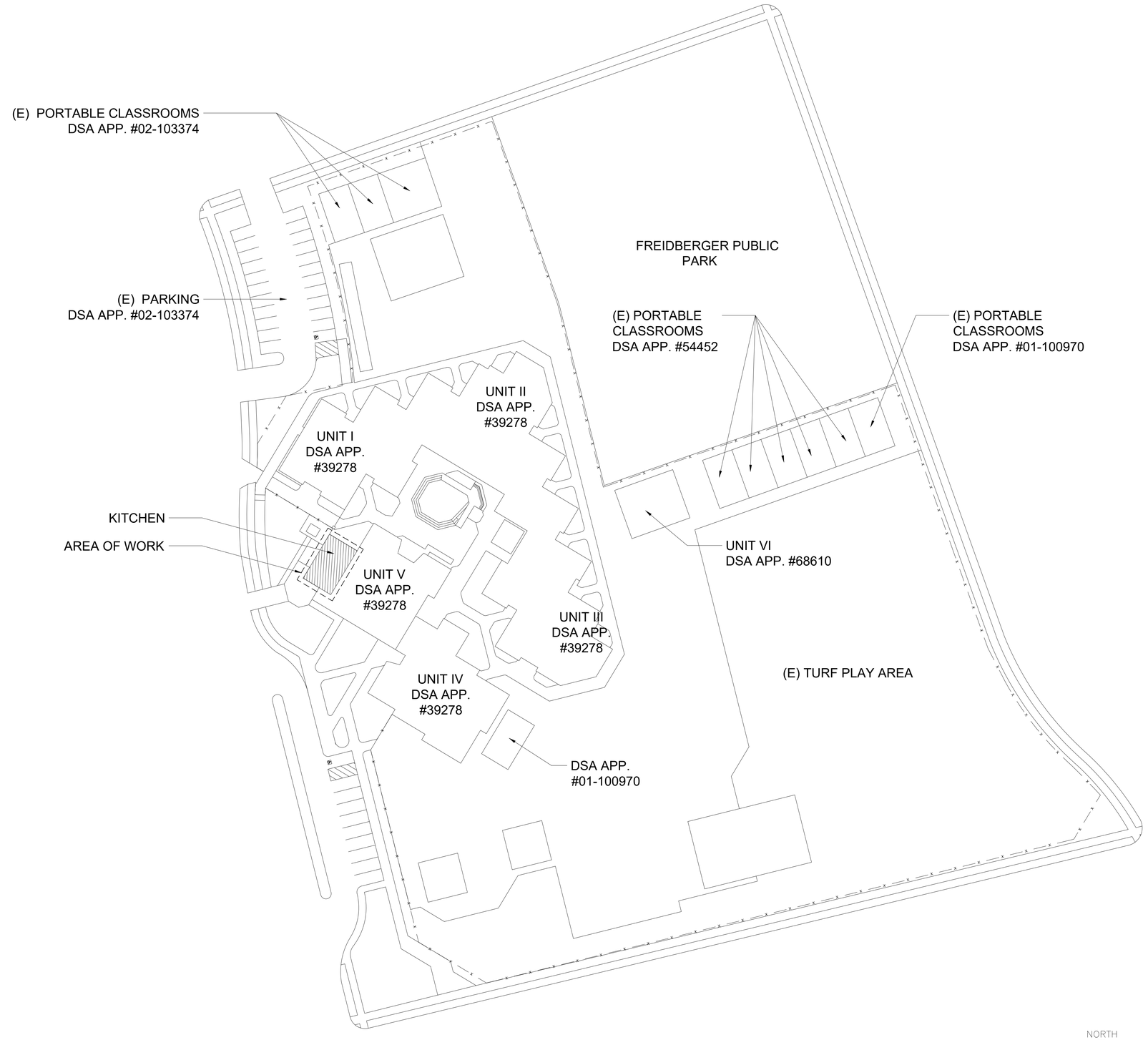
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | **1**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
LOTTIE GRUNSKY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

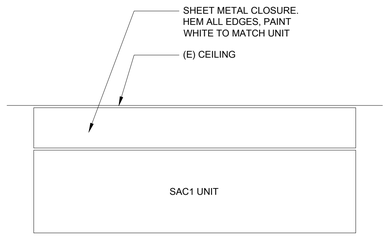
PROJECT #:
2023-005.00

REVISION #:

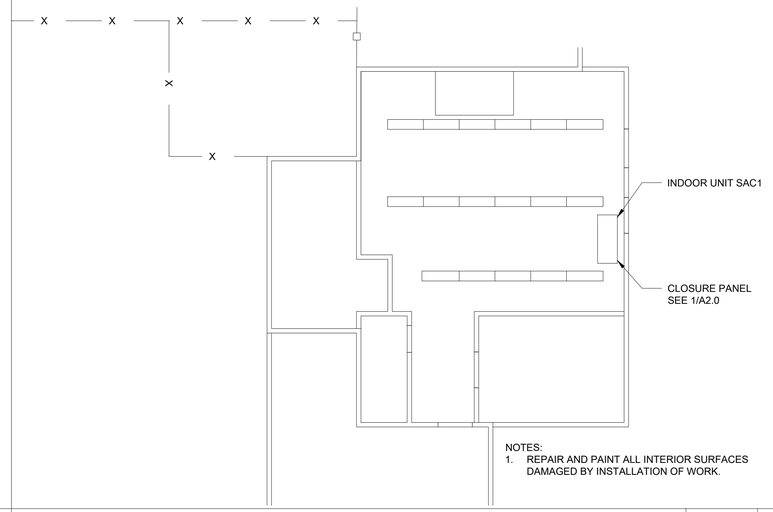
DATE:
10/23/2024

SITE PLAN

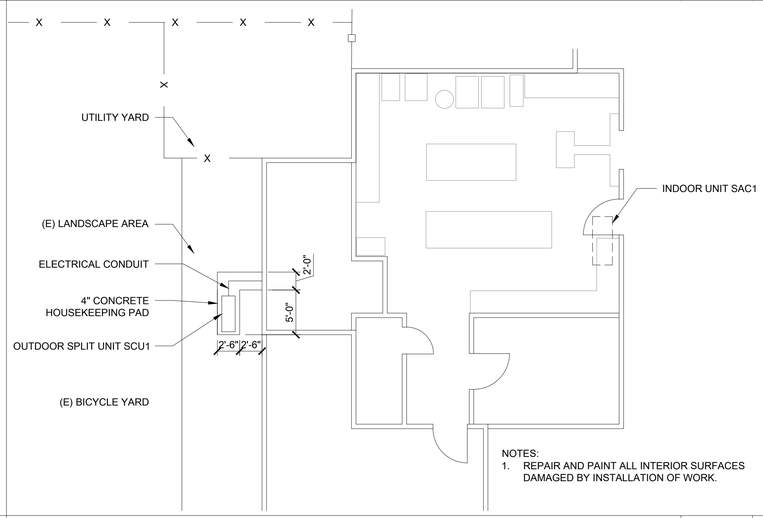
A1.0



CLOSURE PANEL | NTS | **1**



KITCHEN REFLECTED CEILING PLAN | 1/8" = 1'-0" | **2**



KITCHEN FLOOR PLAN | 1/8" = 1'-0" | **3**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
LOTTIE GRUNSKY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LON POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
BEV	BEVELED	LT WT	LIGHT WEIGHT
BOC	BOTTOM OF CONCRETE	LVL	LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSS	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PREGAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD		
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
			TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
HSS	HOLLOW STRUCTURAL SECTION	TOS	TOP OF STEEL
		TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
JT	JACK TRUSS	WS	WATER STOP
		WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

SCHEDULE OF SPECIAL INSPECTIONS:

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION AND TESTING PER CBC SECTION 1704A & 1705A. THIS WORK SHALL BE PERFORMED BY A SPECIAL INSPECTOR QUALIFIED TO PERFORM THE TYPES OF INSPECTIONS AND TESTS SPECIFIED HEREIN. THE FREQUENCY OF TESTING SHALL BE IN ACCORDANCE, BUT NOT LIMITED, TO THE CBC TABLE ITEMS LISTED BELOW. DEFICIENCIES SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR. SUMMARY REPORTS SHALL BE DISTRIBUTED WEEKLY TO THE OWNER, ARCHITECT, CONTRACTOR, AND STRUCTURAL ENGINEER. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION AND TESTING.

LEGEND

	R	← REQUIRED
	C	← CONTINUOUS
	P	← PERIODIC
		← NOT PART OF THIS PROJECT
X		← REQUIRED FOR THIS PROJECT

STEEL CONSTRUCTION

MATERIAL VERIFICATION OF STRUCTURAL STEEL:

X	R	MANUFACTURERS' CERTIFIED MILL TEST REPORTS.

MATERIAL VERIFICATION OF WELD FILLER MATERIAL:

X	R	MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED.

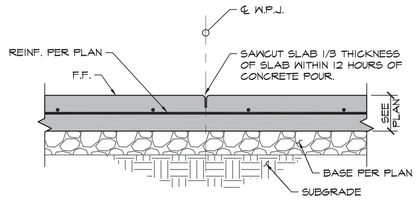
INSPECTION OF WELDING:

STRUCTURAL STEEL

X	P	SINGLE-PASS FILLET WELDS ≤ 5/16"

CONCRETE CONSTRUCTION TABLE 1705A.3

X	P	INSPECTION OF REINFORCING STEEL, AND PLACEMENT.
X	P	VERIFYING USE OF REQUIRED DESIGN MIX.
X	C	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
X	C	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
X	P	INSPECTION OF POST-INSTALLED ANCHORS IN HARDENED CONCRETE MEMBERS.



1 / S1.0 — (WPJ) WEAKENED PLANE JOINT

1" = 1'-0" CONC26

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

STRUCTURAL STEEL:

1. FABRICATION, ERECTION, AND MATERIALS SHALL CONFORM WITH THE AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND 2022 CBC.
2. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   A. WIDE FLANGE BEAMS & COLUMNS (UNO).....ASTM-A992 (Fy = 50 ksi)
   B. ANGLES (UNO)..... ASTM-A36
   C. M, S, C, MC, (UNO) ASTM-A36
   D. HP, WT, MT & ST .....ASTM-A4922 (Fy = 50 ksi)
   E. RECTANGULAR HSS SHAPES (UNO)....ASTM-A500 GRADE C (Fy=50 ksi)
   F. ROUND HSS SHAPES (UNO).....ASTM-A500 GRADE C (Fy = 46 ksi)
   G. PIPES (UNO)....ASTM-A53, TYPE E OR S, GRADE B (Fy = 35 ksi)
   H. PLATES, BARS & MISC. (UNO)....ASTM-A36
   I. ANCHOR RODS (UNO)....ASTM-F1554 (Fy=36ksi)
3. WELDING DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH "AWS". STANDARDS:
   PROVIDE E70XX ELECTRODES FOR ALL WELDS UNO.
   USE ONLY CERTIFIED WELDERS. ALL BUTT WELDS SHALL HAVE COMPLETE PENETRATION. ALL EXPOSED BUTT WELDS SHALL BE GROUND.
4. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
5. HOLES FOR UNFINISHED BOLTS SHALL BE OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
6. USE STANDARD AISC GAGE AND PITCH FOR BOLTS UNLESS NOTED OTHERWISE
7. HIGH STRENGTH BOLTS: 3/4" DIAMETER A325-N TYP UNO.
8. PAINT ALL EXPOSED STEEL W/ PRIMER.

EXPANSION ANCHOR & ADHESIVE ANCHOR NOTES

1. WHERE "EPOXY" OR "EXPANSION" ANCHORS ARE INDICATED IN DRAWINGS THESE NOTES & SCHEDULE (A / S1.0) SHALL APPLY.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE ICC REPORT.
3. PERIODIC SPECIAL INSPECTION IS REQUIRED, UNLESS NOTED OTHERWISE IN THESE DRAWINGS. VERIFICATION OF THE FOLLOWING IS REQUIRED DURING SPECIAL INSPECTION:
   A. ANCHOR TYPE AND DIMENSIONS.
   B. CONCRETE TYPE AND COMPRESSIVE STRENGTH.
   C. HOLE DIMENSIONS AND HOLE CLEANING PROCEDURES.
   D. ANCHOR SPACING, EDGE DISTANCES, CONCRETE/MASONRY THICKNESS, AND ANCHOR EMBEDMENT DEPTH.
   E. TIGHTENING TORQUE.
   F. COMPLIANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
4. WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.
5. ALL POST INSTALLED EXPANSION & ADHESIVE ANCHORS SHALL BE TESTED TO THE VALUES GIVEN IN THE SCHEDULE.
   EXCEPTIONS:
   a. SILL BOLTING APPLICATIONS: 10% OF THE ANCHORS SHALL BE TESTED.
   b. NON STRUCTURAL APPLICATIONS: 50% OF THE ANCHORS SHALL BE TESTED.
   IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.
6. THE TESTING OF THE ANCHORS SHALL BE DONE BY THE TESTING LABORATORY IN THE PRESENCE OF THE PROJECT INSPECTOR & A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER.

(A / S1.0) EXPANSION ANCHORS

HILTI KWIK BOLT-TZ 2
ICC ESR #4266

SIZE	NOMINAL EMBEDMENT	MINIMUM CONCRETE THICKNESS	MINIMUM EDGE DISTANCE	TORQUE TEST VALUE CARBON STEEL (FT-LBS)	TORQUE TEST VALUE STAINLESS STEEL (FT-LBS)
	NORMAL WEIGHT CONCRETE (145 PCF)				
1/4"	1 3/4"	3 1/4"	1 1/2"	4	6
3/8"	2 1/2"	4"	4 3/8"	30	30
1/2"	2 1/2"	4"	5 1/2"	50	40
5/8"	3 3/4"	5 1/2"	11 1/2"	40	60
3/4"	4 1/2"	6"	10"	110	125

NOTES
1. MINIMUM F'C = 2500 PSI
2. DESIGN BASED ON CRACKED CONCRETE.
3. SPACING BETWEEN ANCHORS IS 12 DIAMETERS OR MORE.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .581

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $Fp = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE Fp= .029 Wp

CONCRETE AND REINFORCING STEEL:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19 AS MODIFIED BY CBC.
2. CEMENT SHALL CONFORM TO ASTM C150-18, TYPE II - V.
3. CONCRETE AGGREGATES:
   NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33-18.
4. REINFORCING SHALL CONFORM TO ASTM A615 -- GRADE 60, UNO
5. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED ACCORDING TO "MANUAL OF STANDARD PRACTICE OF REINFORCED CONCRETE CONSTRUCTION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
6. DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNO ON DRAWINGS:
   SLABS (ON GROUND) ..... POSITION IN CENTER OF SLAB
7. GENERAL:
   A. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED.
   B. REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, CLIPS AND GROUNDS TO BE CAST IN CONCRETE.
8. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING OR HOSING THE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE SPRAY.
9. REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING ANY CONCRETE.
10. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
11. MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".
12. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE COVERED W/ CONC.
13. CONCRETE MIX DESIGN SHALL BE PREPARED PER CBC CHAPTER 19 AND REVIEWED BY THE STRUCTURAL ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO PLACEMENT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Lottie Grunsky E.S.
Augment Kitchen HVAC
Stockton USD

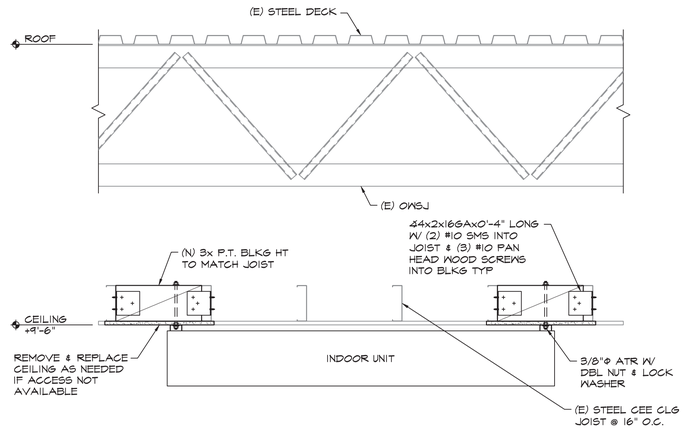
PROJECT #:
2023-030

REVISION #:

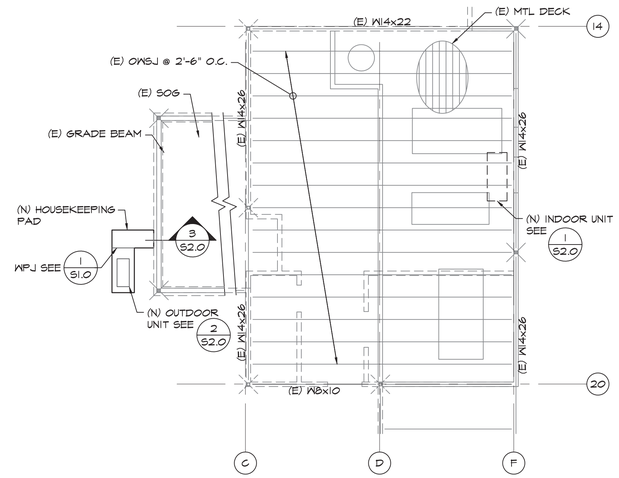
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

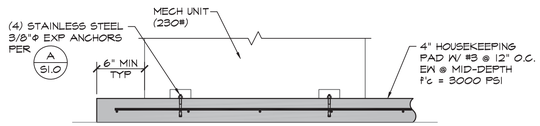
S1.0



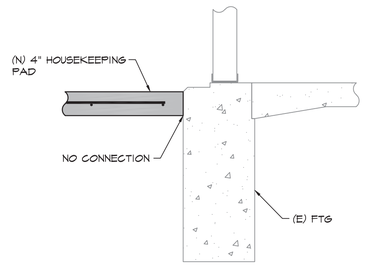
INDOOR UNIT
ANCHORAGE DETAIL
1 / 52.0
1" = 1'-0" 027DET002



KITCHEN
FLOOR/ROOF FRAMING PLAN
A / 52.0
1/8" = 1'-0"



OUTDOOR UNIT
ANCHORAGE DETAIL
2 / 52.0
1" = 1'-0" 027DET003_PAD



DETAIL
3 / 52.0
1" = 1'-0" 030DET001

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Lottie Grunsky E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-030

REVISION #:

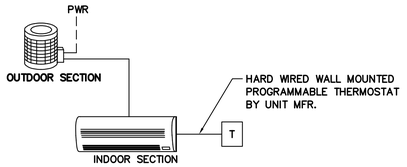
DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC

INI	%



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
ƒ	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4 5

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Lottie Grunsky E.S. Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT JEFF DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER Kevin D. Stillman No. M 33498 Exp. 9/30/25 MECHANICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Lottie Grunsky E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

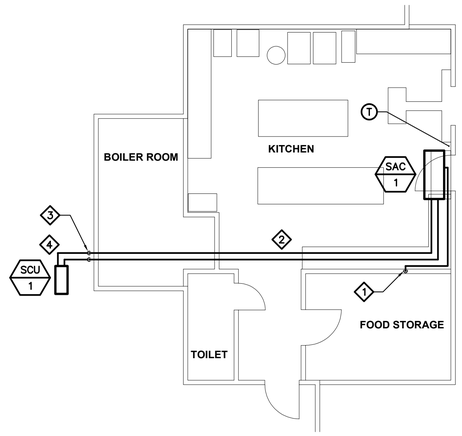
QC
INI	%

SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED HIGH ON WALL (SEE 4/M5.0 FOR MOUNTING), (D) THRU WALL TO BELOW (E) SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE TIGHT TO UNDERSIDE OF CEILING, FOR DETAIL SEE 9/M5.0.
3. PIPE THRU EXTERIOR WALL PER DETAIL 8/M5.0. THEN ROUTE REFRIGERANT PIPE (D) ALONG EXTERIOR WALL.
4. REFRIGERANT PIPE ON GRADE, FOR DETAIL SEE 6/M5.0.



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Lottie Grunsky E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

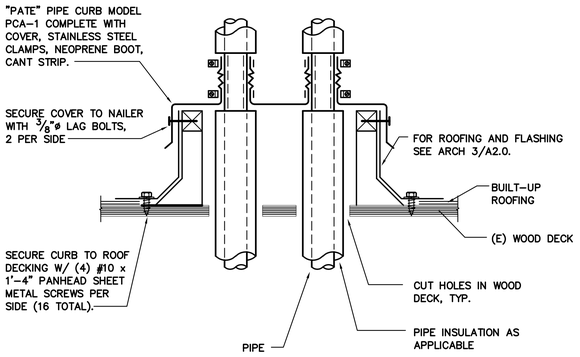
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

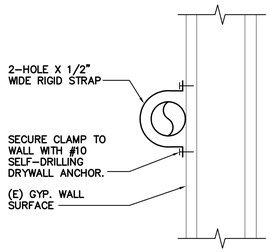
QC
INI | %

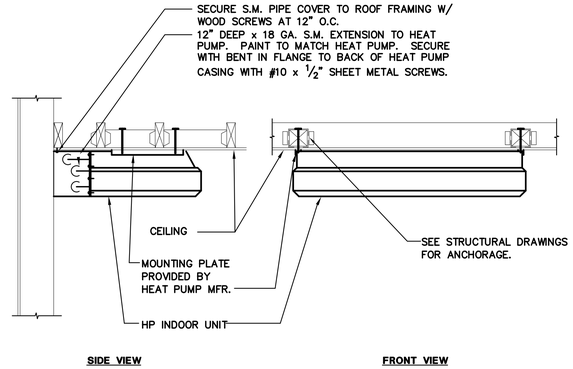


CD MOUNTING ON WALL

SCALE : NONE

4 / M5.0

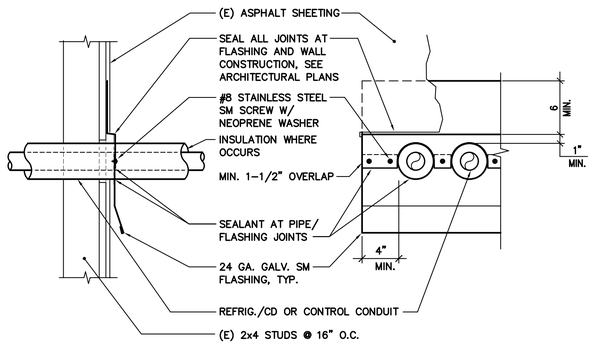




HP INDOOR UNIT MOUNTING

SCALE : NONE

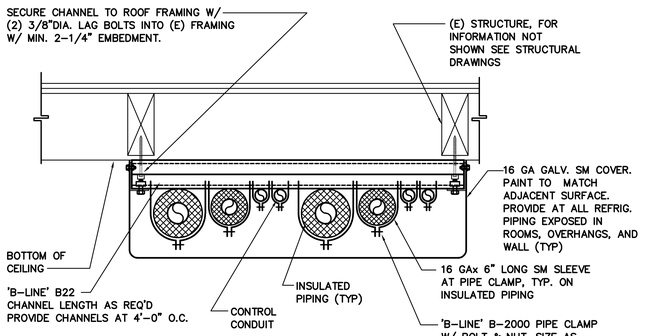
1 / M5.0



PIPE THRU EXTERIOR WALL

SCALE : NONE

8 / M5.0

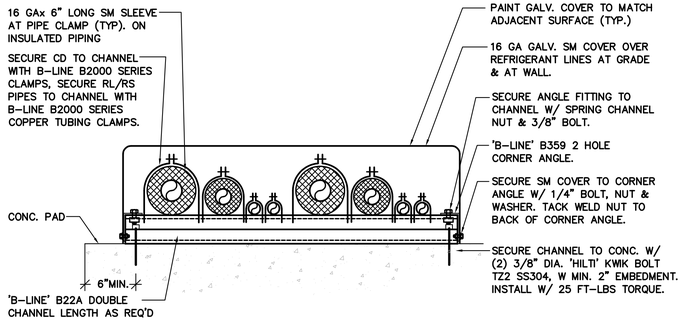


NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

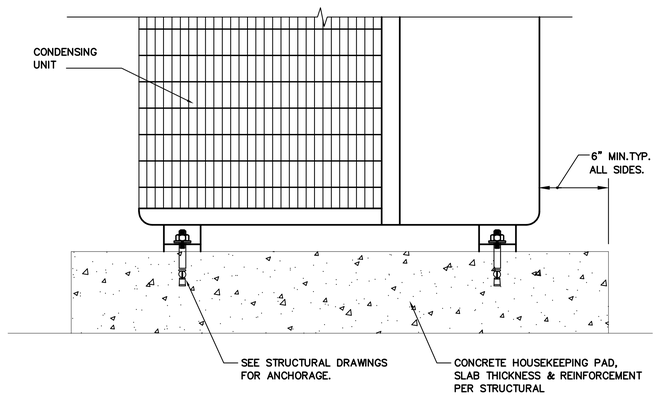


NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SPACE PIPE SUPPORTS ON GRADE AT 4' O.C. MIN. 2 SUPPORTS.
3. SEE PLANS FOR NUMBER OF PIPES ON EACH SUPPORT.
4. ALL EXPOSED METAL PARTS INCLUDING SHEET METAL COVER SHALL BE PRIMED AND PAINTED TO MATCH ADJACENT SURFACE.
5. PROVIDE MIN. 1/2" SPACE BETWEEN BOTTOM OF 16 GA. COVER AND CONC. PAD TO ALLOW FOR PROPER DRAINAGE.

REFRIGERANT PIPE MOUNTING ON GRADE

SCALE : NONE

6 / M5.0



HP OUTDOOR UNIT ON GRADE MOUNTING

SCALE : NONE

3 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
JAMES P. DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Lottie Grunsky E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT — KIP DAVIS GRUBB — No. C19022 — EXP. 11/30/25 — STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — NATHAN A. HEARN — No. E 23927 — 3-31-2024 — ELECTRICAL — STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Lottie Grunsky E.S. Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

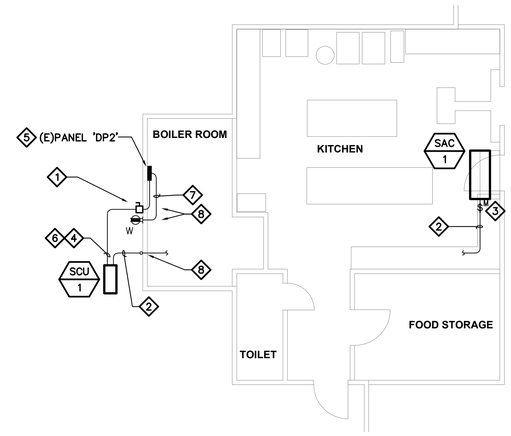
QC
INI	%

SHEET NOTES:

1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0-1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. GROUND MOUNT BRANCH CIRCUIT CONDUIT AND WIRING THEN ELLED UP TO THE DISCONNECT SWITCH, THEN WALL MOUNT UP TO THE J-BOX MOUNTED HIGH ON THE WALL. PENETRATE WALL THEN SURFACE MOUNT CONDUIT HIGH ON THE INTERIOR UP TO THE LOCATION OF PANEL 'DP2'. SEE DETAIL 1, 2, AND 3 ON SHEET E5.0 FOR SURFACE MOUNTED CONDUIT MOUNTING DETAIL, CONDUIT ON GRADE MOUNTING DETAIL, AND WALL CONDUIT PENETRATION DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND
8. CUT WALL AND CORE DRILL THRU WALL. SEAL PENETRATION WATER TIGHT. PATCH AND PAINT TO MATCH EXISTING.



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
JEFF DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Lottie Grunsky E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

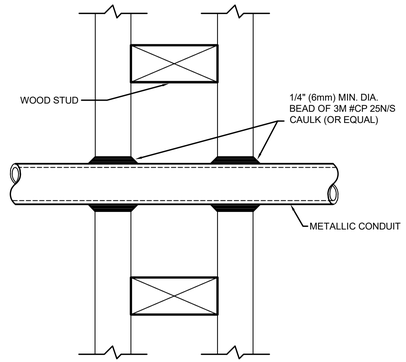
DATE:
10/23/2024

ELECTRICAL FLOOR PLAN

E2.0

QC

INI	%



STUD WALL

NOTES:

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

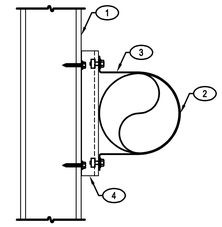
WALL CONDUIT PENETRATION DETAIL

SCALE : NONE

3 / E5.0

KEY NOTES

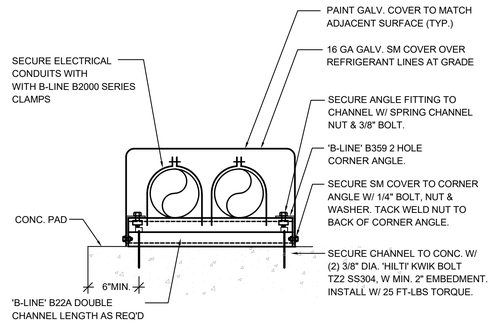
1. WOOD FRAMED WALL.
2. PIPE, SEE PLAN FOR SIZE.
3. "B-LINE" B3180 SERIES PIPE CLAMP. ATTACH TO CHANNEL W/ CHANNEL NUT AND WASHER.
4. "B-LINE" B22 CHANNEL, MIN 12" LONG. ATTACH TO WOOD STUD WALL W/ (2) 3/8"ø LAG BOLTS, MIN 3-1/2" EMBEDMENT., AT 8" O.C.



SURFACE MOUNTED CONDUIT MOUNTING DETAIL (WALL)

SCALE : NONE

1 / E5.0



NOTES:

1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SPACE PIPE SUPPORTS ON GRADE AT 4' O.C. MIN. 2 SUPPORTS.
3. SEE PLANS FOR NUMBER OF CONDUITS ON EACH SUPPORT.
4. ALL EXPOSED METAL PARTS INCLUDING SHEET METAL COVER SHALL BE PRIMED AND PAINTED TO MATCH ADJACENT SURFACE.
5. COORDINATE WITH PIPING INSTALLER TO CONTAIN PIPING AND ELECTRICAL CONDUIT WITHIN ONE 'B-LINE' B22A DOUBLE CHANNEL. ADJUST THE LENGTH TO ACCOMODATE PIPING AND ELECTRICAL CONDUIT TO ONE SUPPORT.

CONDUIT ON GRADE MOUNTING DETAIL

SCALE : NONE

2 / E2.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Lottie Grunsky E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

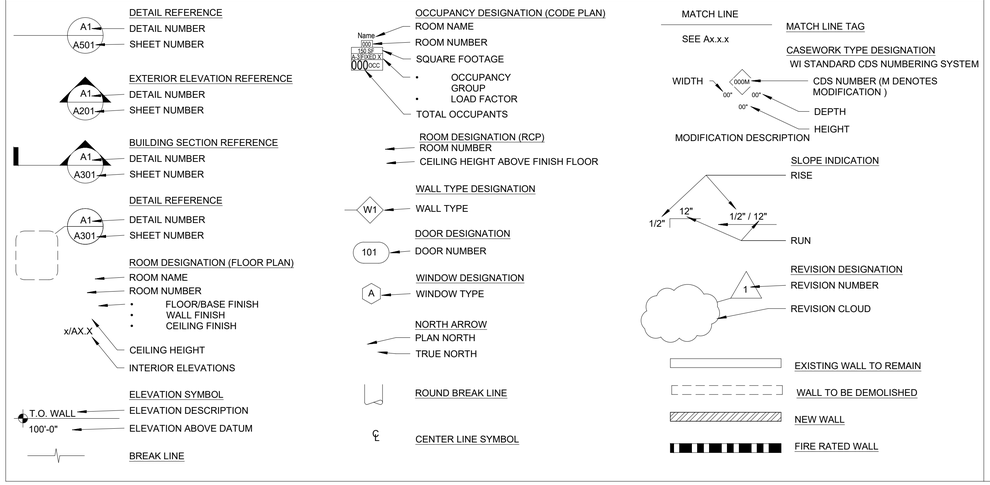
MADISON AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

2939 Mission Rd, Stockton, CA 95204

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT	**J**		RH	RELATIVE HUMIDITY
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER	JAN	JANITOR	RM	ROOM
AD	AREA DRAIN	EXP	EXPOSED			RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR	**K**	(NOT USED)	RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT					RWL	RAIN WATER LEADER
ALUM	ALUMINUM	**F**		**L**			
ANOD	ANODIZED	F	FAHRENHEIT	LAB	LABORATORY	**S**	
ARCH	ARCHITECT	FA	FIRE ALARM	LAV	LAVATORY	S	SMOKE DETECTOR
@	AT	FACP	FIRE ALARM CONTROL PANEL	LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		FDC	FIRE DEPARTMENT CONNECTION			SCHED	SCHEDULE
B						SECT	SECTION
BD	BOARD			LLH	LONG LEG HORIZONTAL	SIM	SIMILAR
BLDG	BUILDING	FD	FLOOR DRAIN	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION
BO	BOTTOM OF	FEC	FIRE EXTINGUISHER CABINET	LPT	LOW POINT	SS	STAINLESS STEEL
						STD	STANDARD
C		FE	FIRE EXTINGUISHER	**M**		STS	SELF TAPPING SCREW
C	CELSIUS	FG	FINISH GRADE	MACH RM	MACHINE ROOM	STRUCT	STRUCTURAL
CH	COAT HOOK	FHC	FIRE HOSE CABINET	MAX	MAXIMUM		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FIN	FINISH	MFR	MANUFACTURER	**T**	
		FLR	FLOOR	MECH	MECHANICAL	T	TREAD
CG	CORNER GUARD	FND	FOUNDATION	MEZZ	MEZZANINE	TEL	TELEPHONE
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING	MIN	MINIMUM	TEMP	TEMPORARY
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE	MO	MASONRY OPENING	THK	THICK
CL	CENTER LINE	FOM	FACE OF MASONRY			TOC	TOP OF CONCRETE
CLG	CEILING	FOS	FACE OF STUD	**N**		TOM	TOP OF MASONRY
CLO	CLOSET	FOW	FACE OF WALL	NA	NOT APPLICABLE	TOP	TOP OF PARAPET
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM	NIC	NOT IN CONTRACT	TOS	TOP OF SLAB; TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE	NOM	NOMINAL	TOW	TOP OF WALL
COL	COLUMN	FT	FEET	NTS	NOT TO SCALE	TYP	TYPICAL
CONC	CONCRETE	FV	FIELD VERIFY			TO	TOP OF
CONT	CONTINUOUS			**O**			
CORR	CORRIDOR	**G**		OC	ON CENTER	**U**	
CT	CERAMIC TILE	GA	GAUGE	OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	UL	UNDERWRITER'S LABORATORIES
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED			UNO	UNLESS NOTED OTHERWISE
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE	OFD	OVERFLOW DRAIN		
				OH DR	OVERHEAD DOOR	**V**	
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM	OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
D	DEEP			OPP	OPPOSITE	VERT	VERTICAL
DEG	DEGREE	GL	GLASS	ORIG	ORIGINAL	VEST	VESTIBULE
DEMO	DEMOLITION	GWB	GYPSUM WALL BOARD	**P**		VIF	VERIFY IN FIELD
DF	DRINKING FOUNTAIN	GYP	GYPSUM	P LAM	PLASTC LAMINATE		
DIA	DIAMETER			PLAS	PLASTER	**W**	
DIM	DIMENSION	**H**		PLUMB	PLUMBING	W/	WITH
DN	DOWN	H	HIGH	PR	PAIR	W/O	WITHOUT
DS	DOWNSPOUT	HB	HOSE BIBB	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DWGS	DRAWINGS	HDR	HEADER	PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
		HM	HOLLOW METAL	PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
E		HPT	HIGH POINT			WRB	WEATHER RESISTIVE BARRIER
E	EXISTING	HR	HOUR	**Q**			
EA	EACH	HT	HEIGHT	QT	QUARRY TILE	X,Y,Z	NOT USED
EJ	EXPANSION JOINT						
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**		R		THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION	R	RISER OR RADIUS		
ELEC	ELECTRICAL			RAD	RADIUS		
ELEV	ELEVATOR	IN	INCH	RCP	REFLECTED CEILING PLAN		
EOS	EDGE OF SLAB	INFO	INFORMATION	RD	ROOF DRAIN		
ERD	EXISTING ROOF DRAIN	INT	INTERIOR	REF	REFRIGERATOR		
EQ	EQUAL			REQD	REQUIRED		
				REV	REVISION		

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MADISON E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

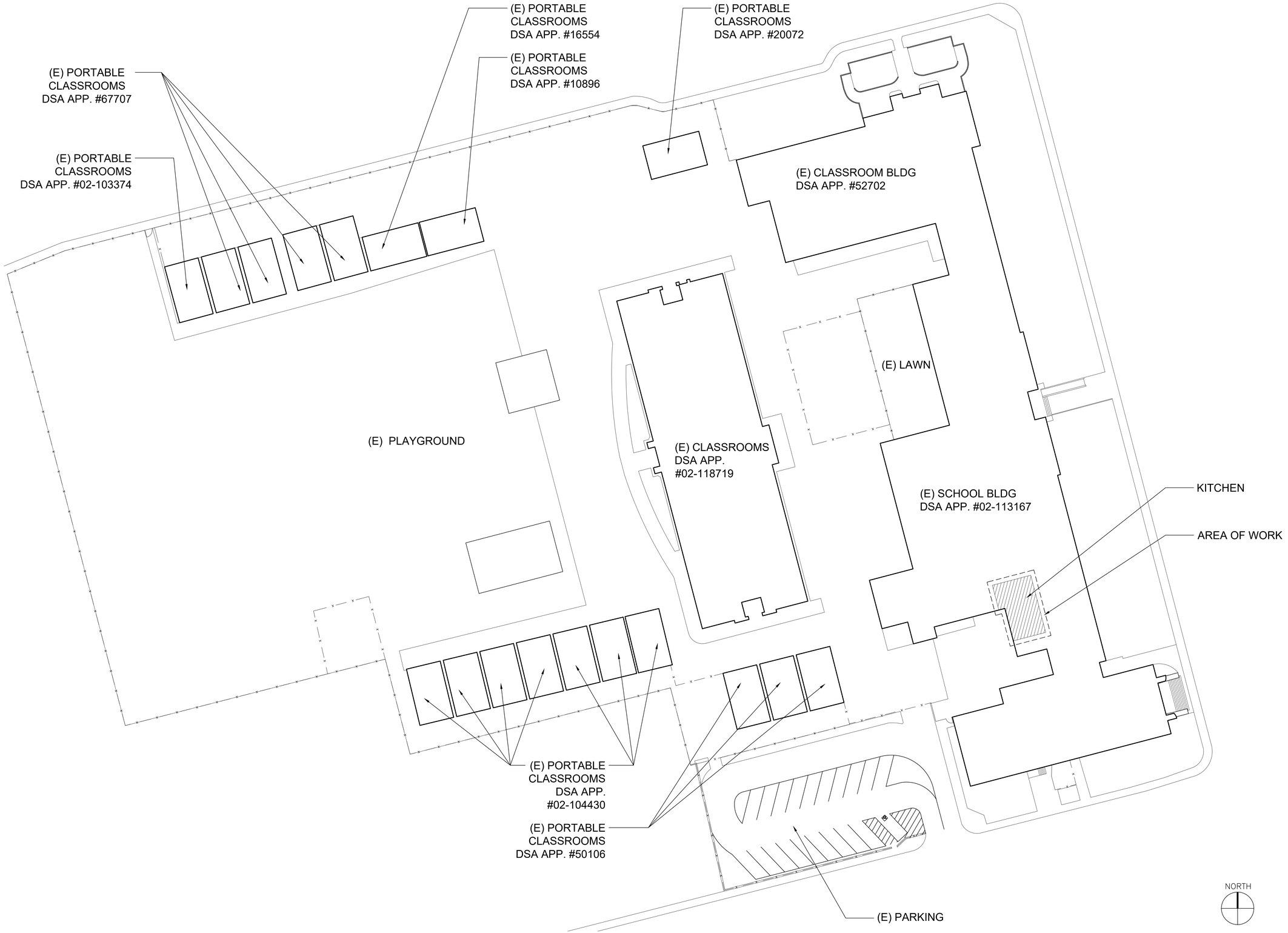
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 30'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MADISON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

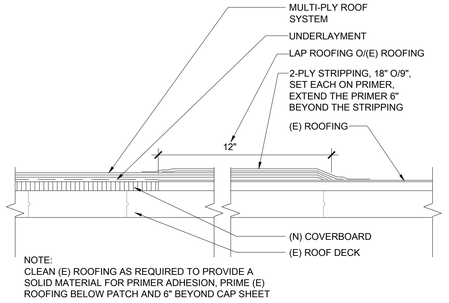
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

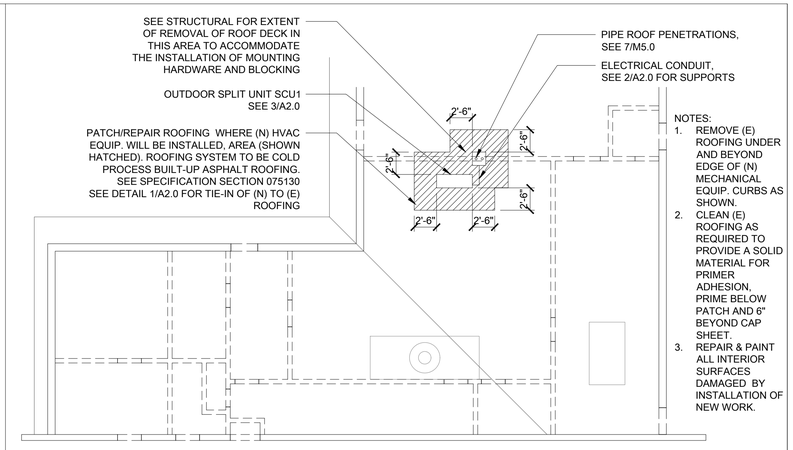
SITE PLAN

A1.0



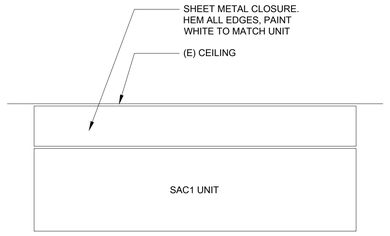
NEW TO EXISTING ROOFING TIE-IN

3" = 1'-0" | 1



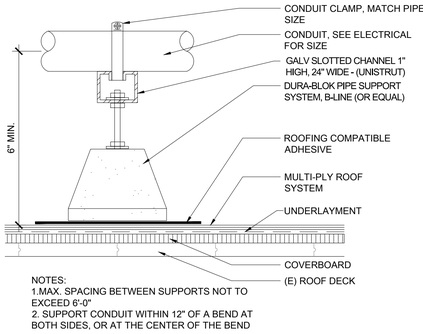
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



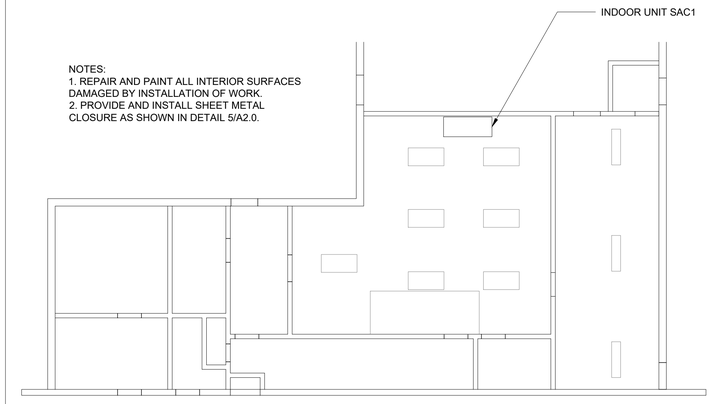
CLOSURE PANEL

NTS | 5



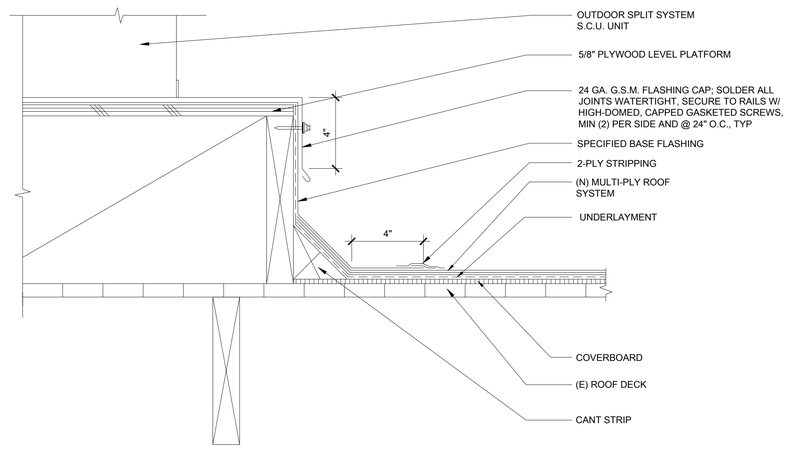
CONDUIT SUPPORT

3" = 1'-0" | 2



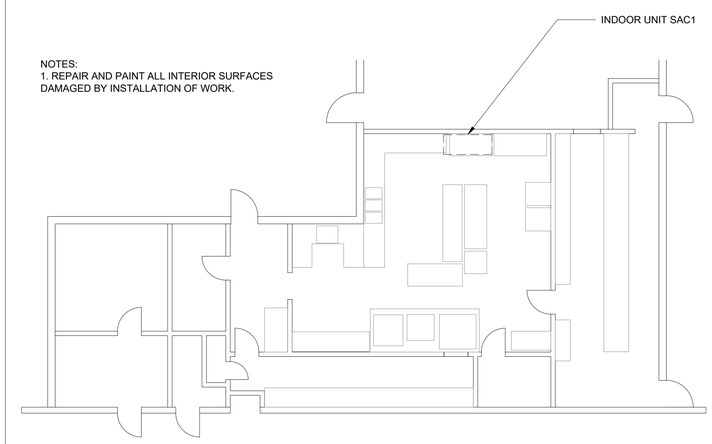
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MADISON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PRECAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY		
FOS	FACE OF STUD	SLV	SHORT LEG VERTICAL
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL. MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOT PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ☒ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. PRIOR TO FABRICATION, SHOP DRAWINGS, SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER ON ALL STRUCTURAL STEEL.
   SHOP DRAWINGS: SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS INTENDED FOR USE. DUPLICATION OF DESIGN DRAWINGS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
6. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
8. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS
BUILDING LOCATION:
LATITUDE: 37.924 °N
LONGITUDE: -121.302 °W

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .589

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\, a_p\, S_{DS}\, W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE $F_p = 0.29\, W_p$

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

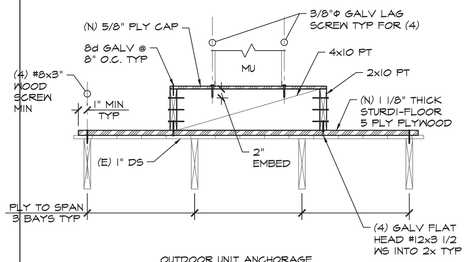
PROJECT #:
2023-071

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

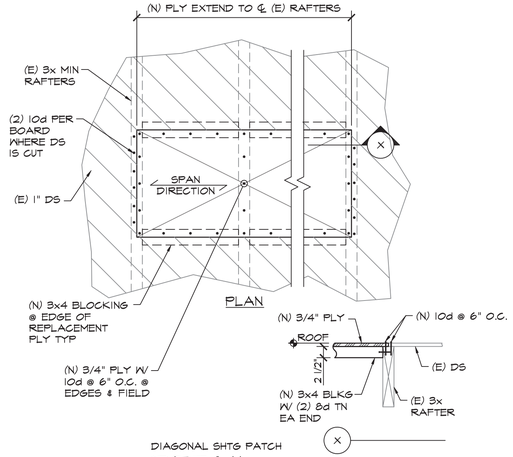
S1.0



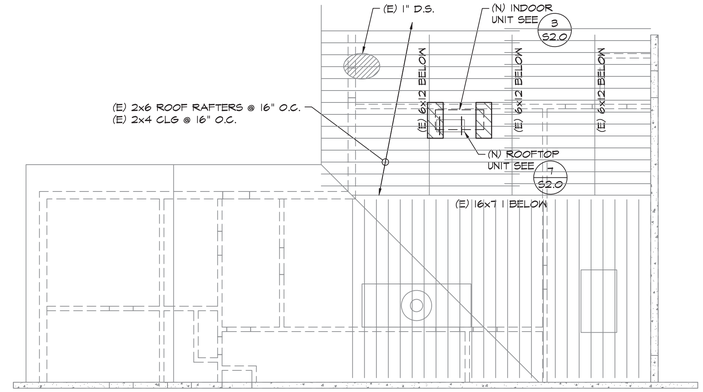
OUTDOOR UNIT ANCHORAGE
SECTION (2x FRAMING)
8 / S2.0
3/4" = 1'-0" 022DET008

NOT USED
5 / S2.0
= 1'-0"

NOT USED
1 / S2.0
= 1'-0"



DIAGONAL SHTG PATCH
DETAIL
2 / S2.0
3/4" = 1'-0" 022DET002

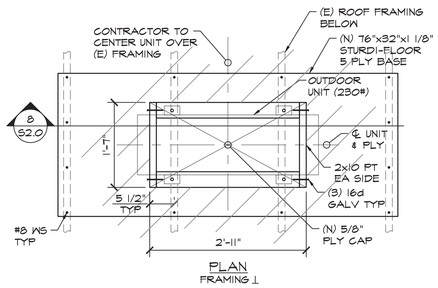


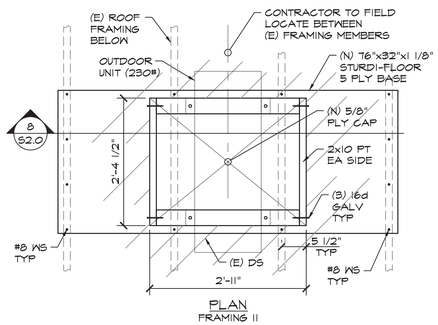
LEGEND
APPROXIMATE EXTENT OF REMOVED DS SEE 2/S2.0

KITCHEN
ROOF FRAMING PLAN
A / S2.0
1/8" = 1'-0"

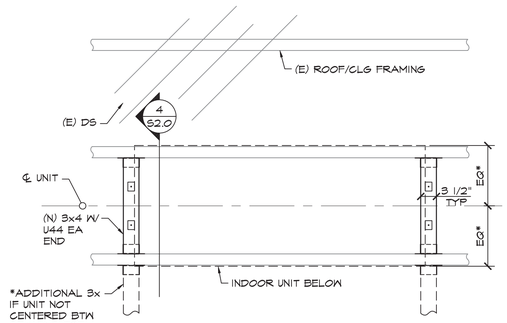
N

NOT USED
6 / S2.0
= 1'-0"

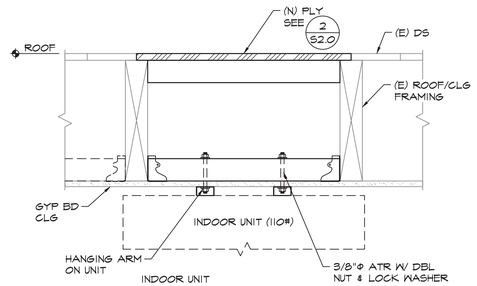




OUTDOOR UNIT ANCHORAGE
DETAIL (2x FRAMING)
7 / S2.0
3/4" = 1'-0" 022DET007_3x_DS



INDOOR UNIT
DETAIL
3 / S2.0
3/4" = 1'-0" 022DET003



INDOOR UNIT
DETAIL
4 / S2.0
1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-071

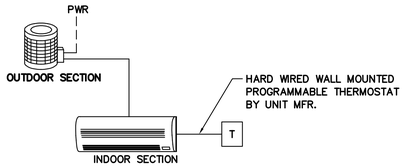
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4 5

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(j) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KEVIN DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

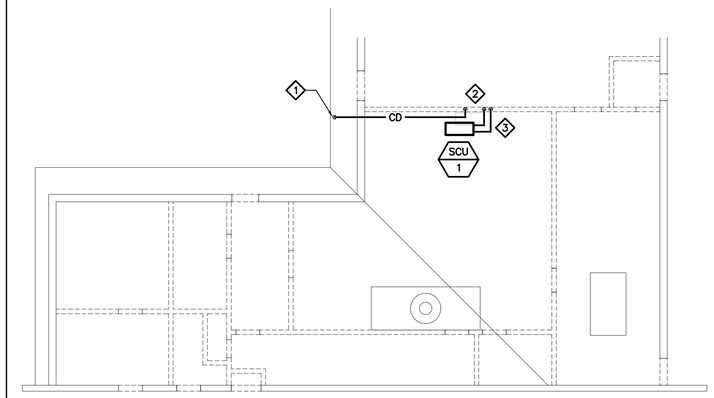
QC	
INI	%

SHEET NOTES:

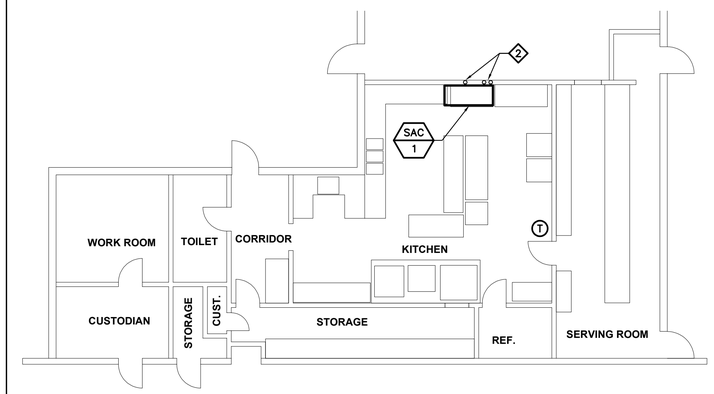
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CONDENSATE DRAIN PIPE ON ROOF, FOR MOUNTING DETAIL SEE 5/M5.0. DISCHARGE TO (E) GUTTER W/ MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT OR CONDENSATE DRAIN PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KYLE DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

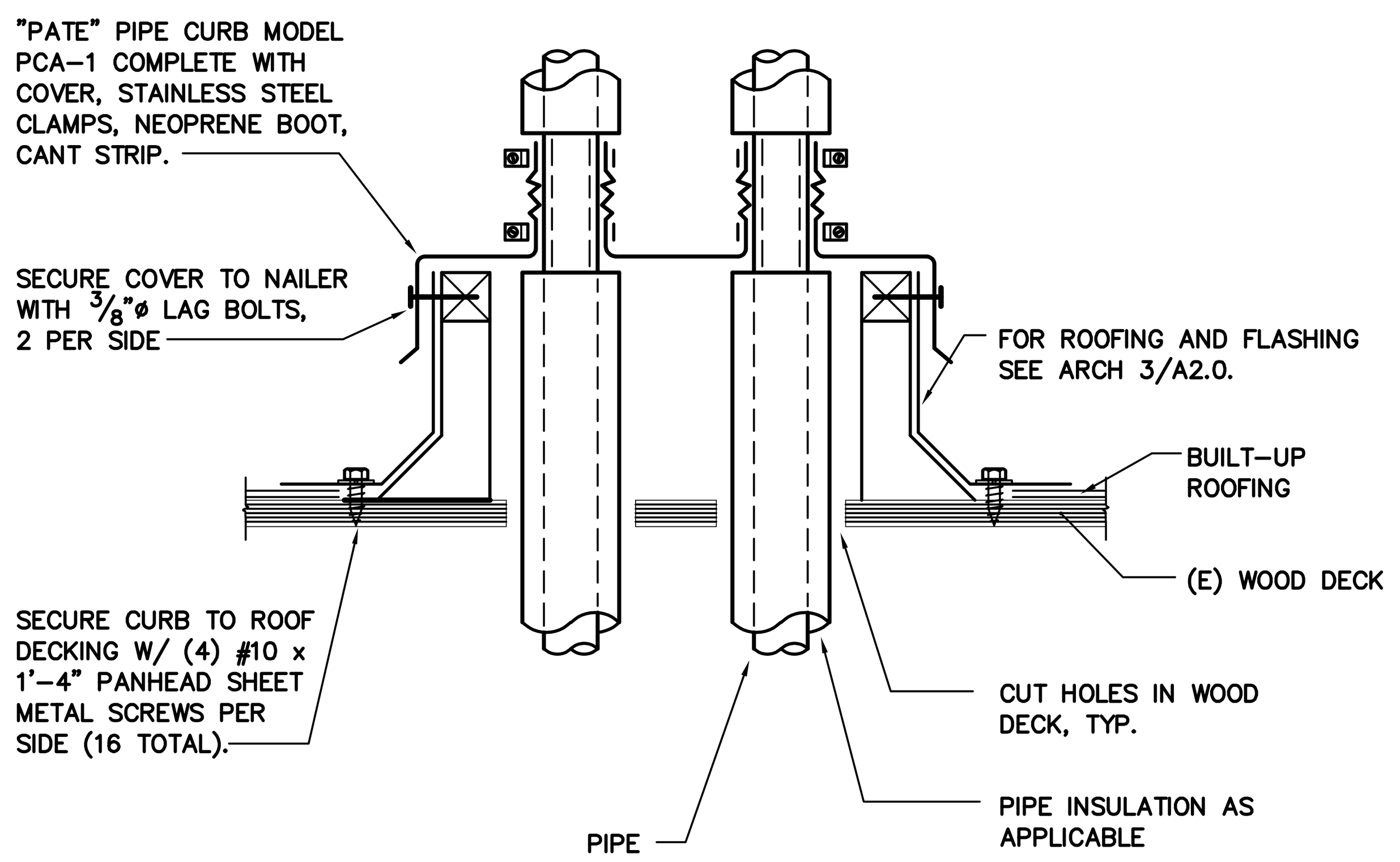
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

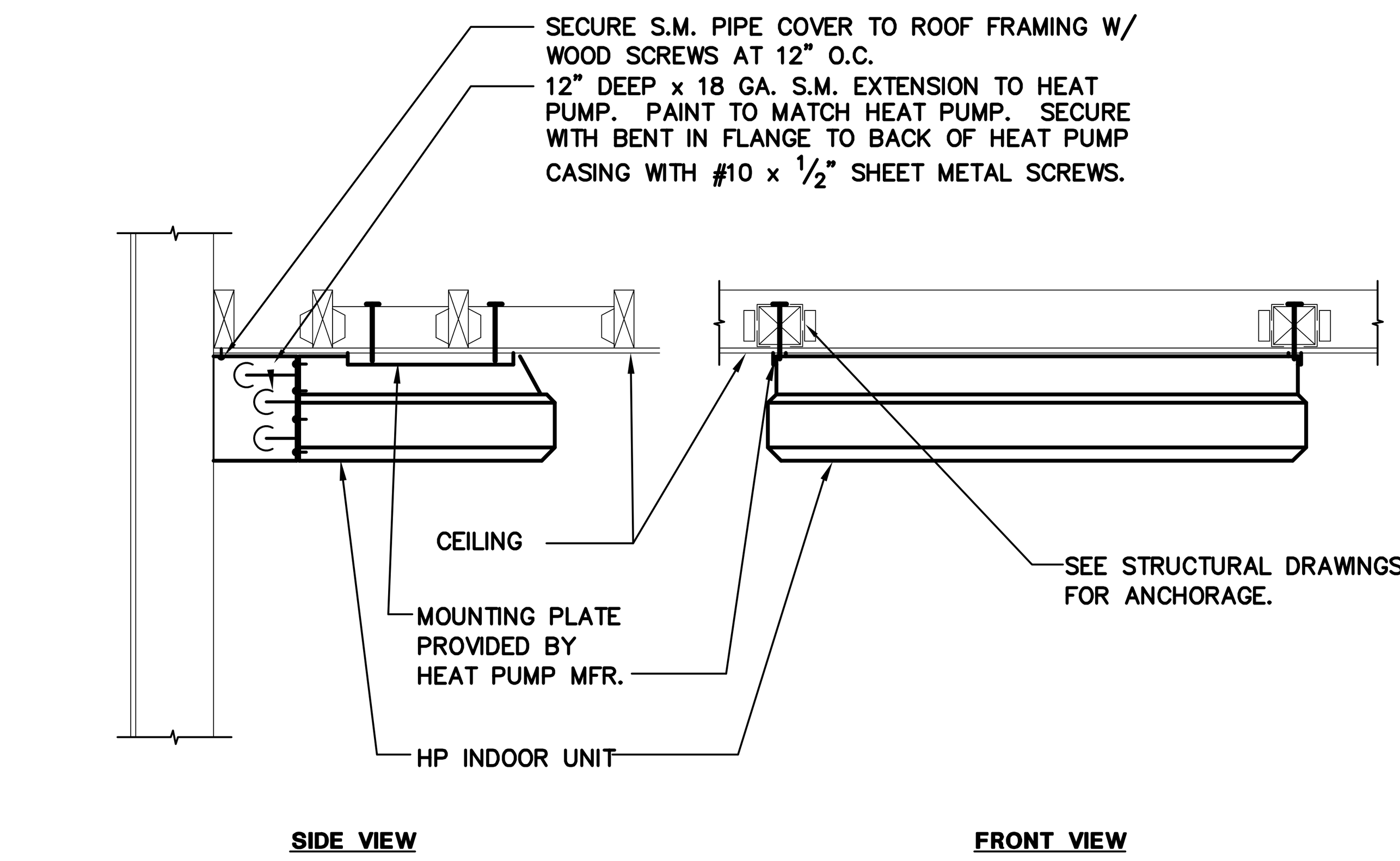
M2.0



PIPE THRU ROOF

7 / M5.0

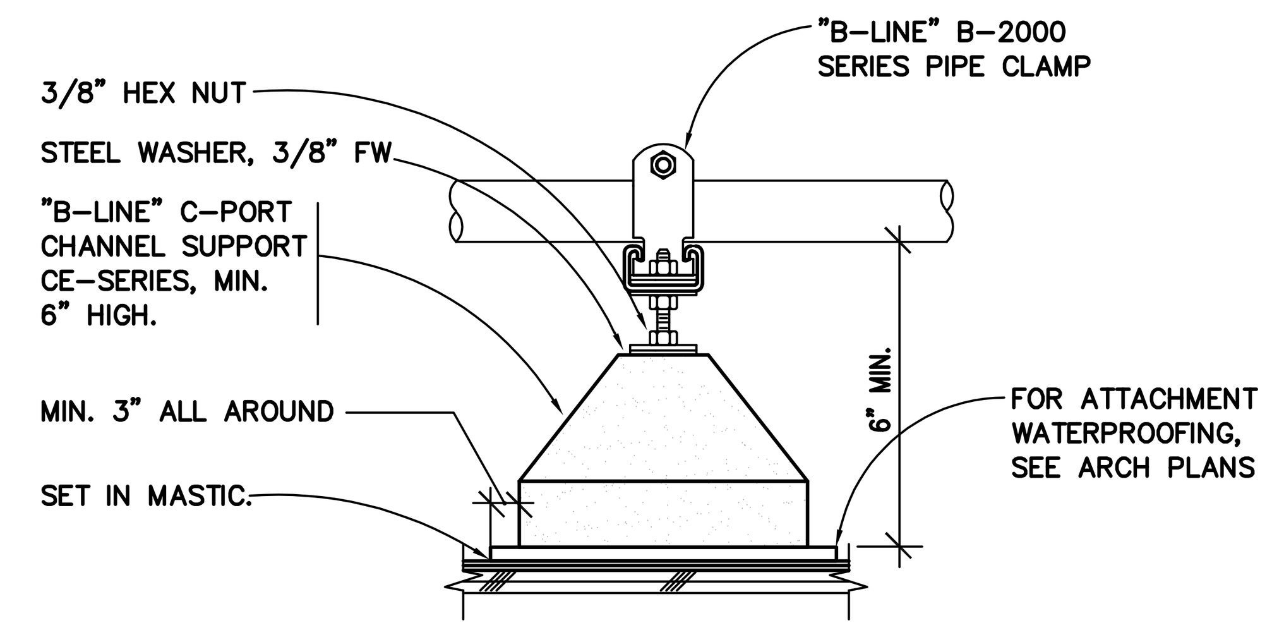
SCALE : NONE



HP INDOOR UNIT MOUNTING

1 / M5.0

SCALE : NONE

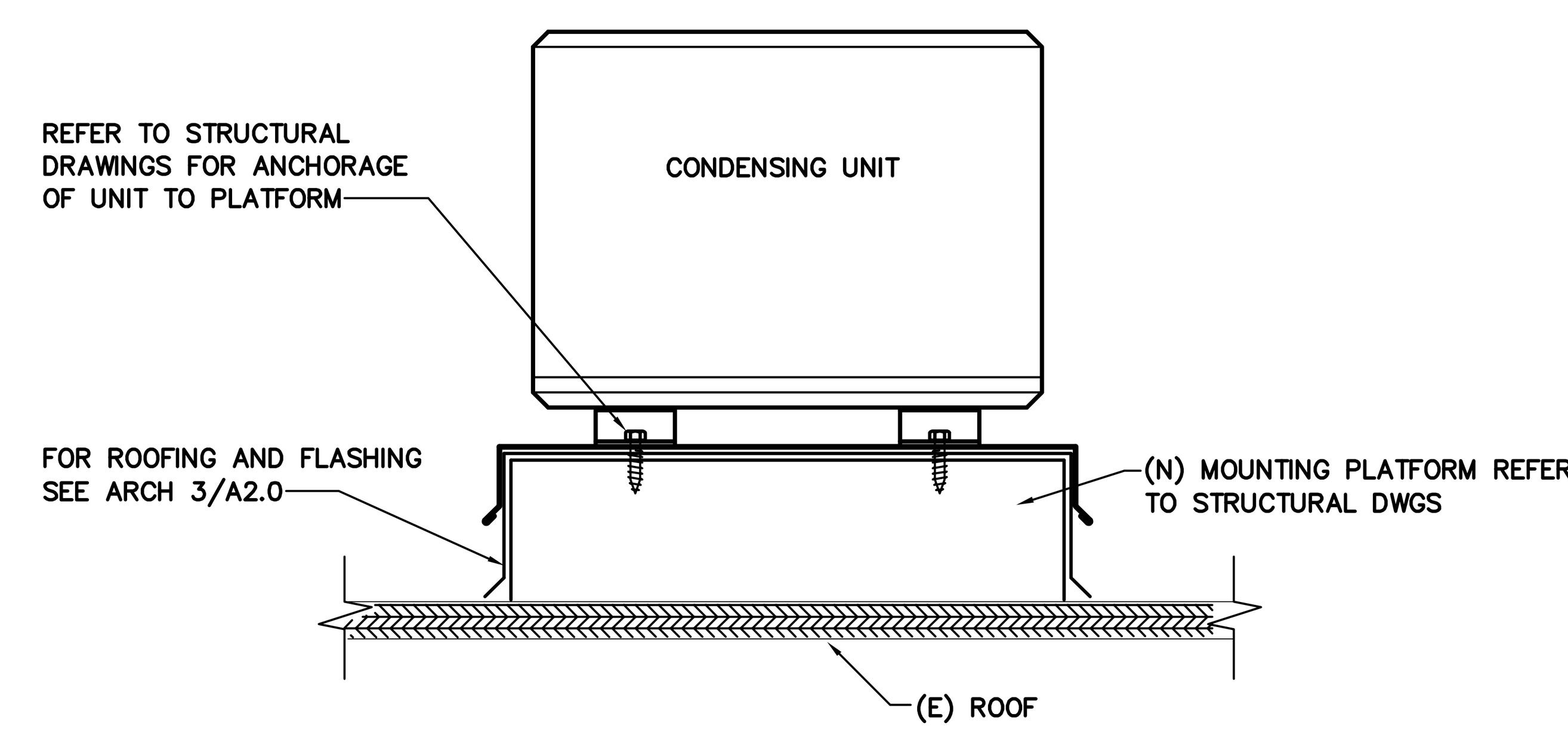


2022 CPC TABLE 1210.2.4.1 SUPPORT OF PIPING		NFPA 54-7.2.5.1 TABLE 7.2.5.2 SUPPORT OF PIPING	
STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	7/8 OR 1 (HORZ.)	8

CD MOUNTING ON ROOF

5 / M5.0

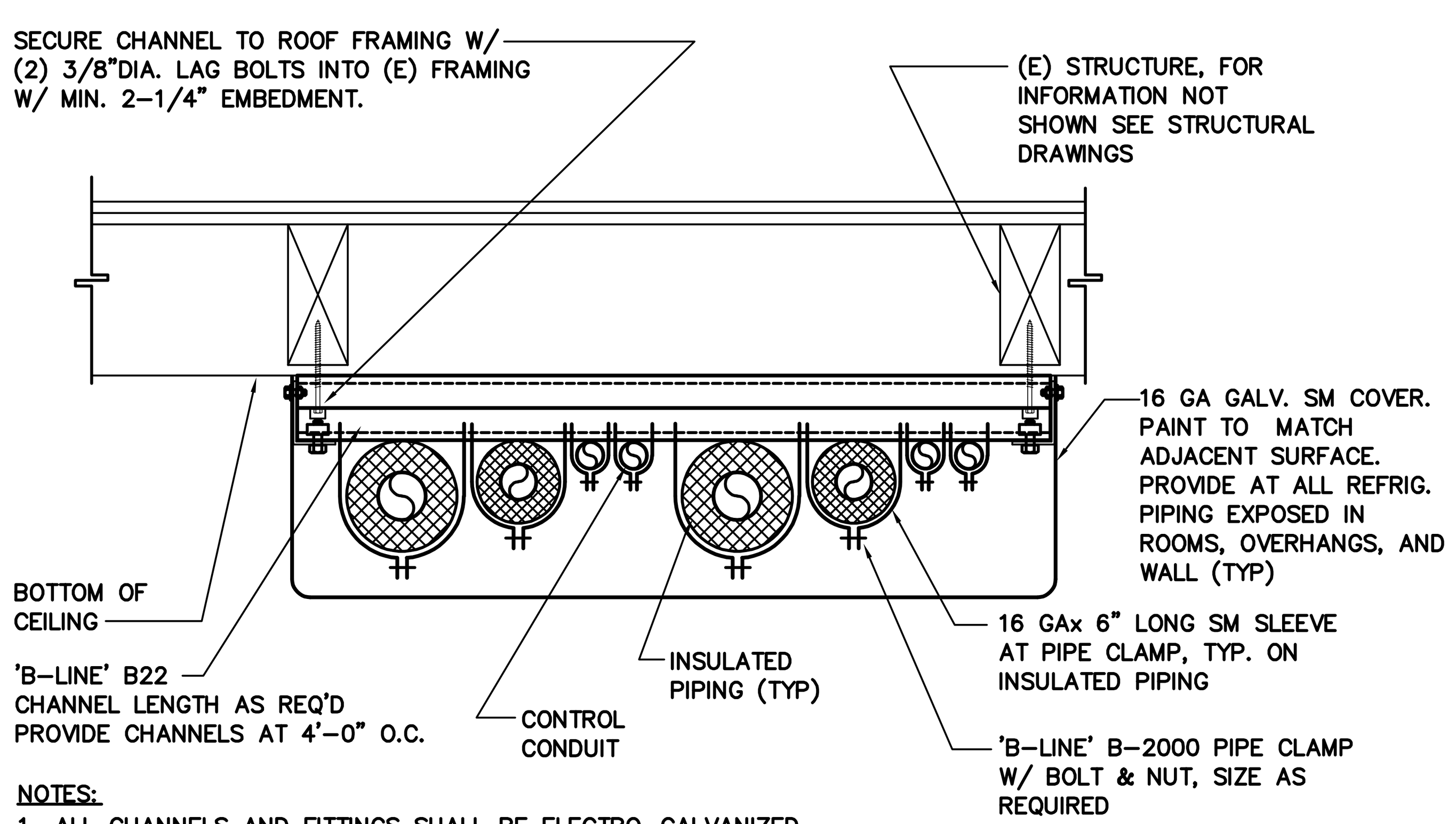
SCALE : NONE



HP OUTDOOR UNIT ON ROOF MOUNTING

2 / M5.0

SCALE : NONE



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

9 / M5.0

SCALE : NONE

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

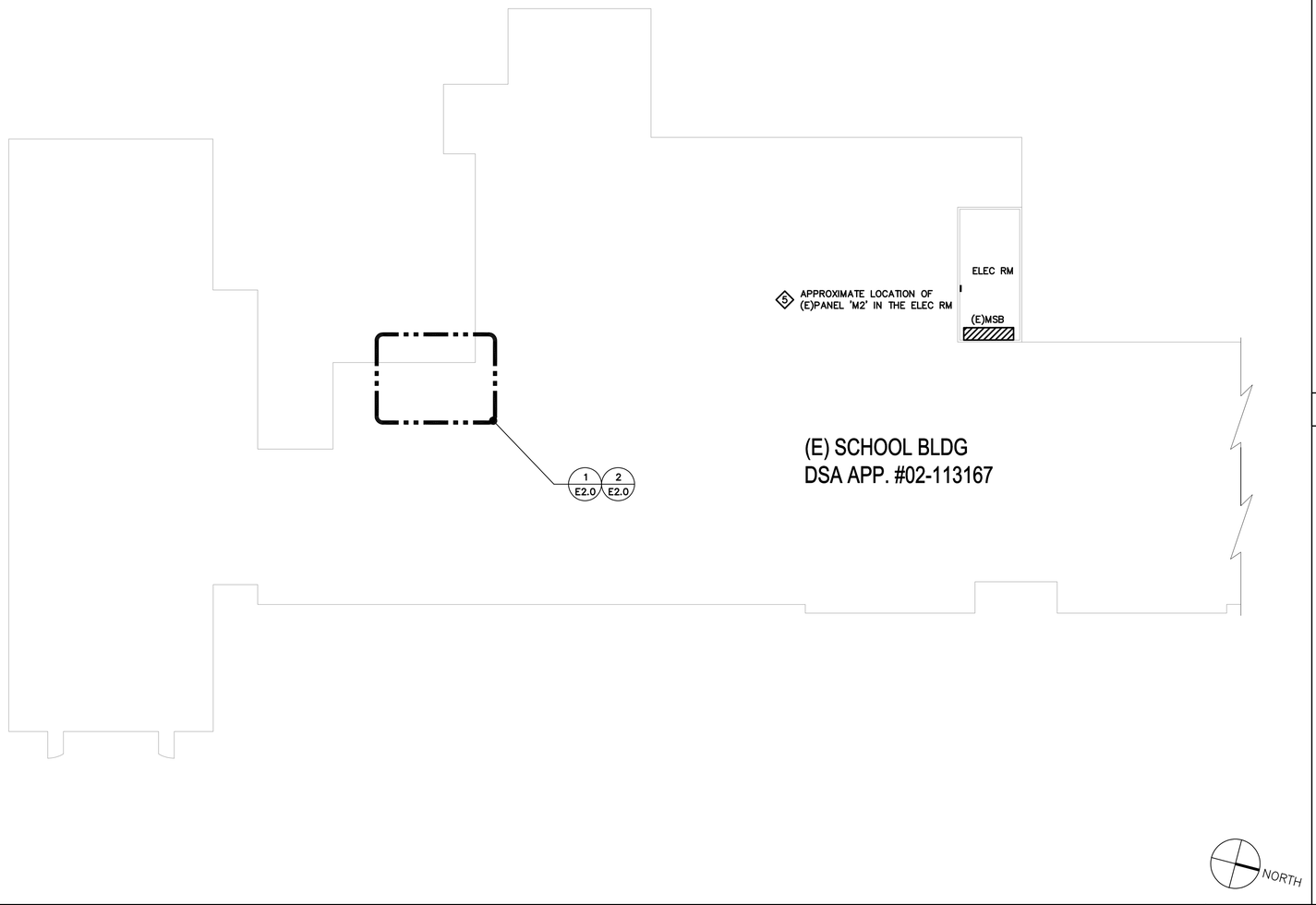
QC	
INI	%

SHEET NOTES:

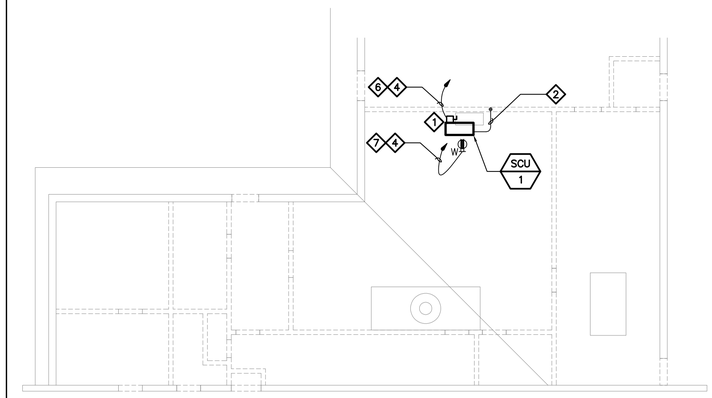
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

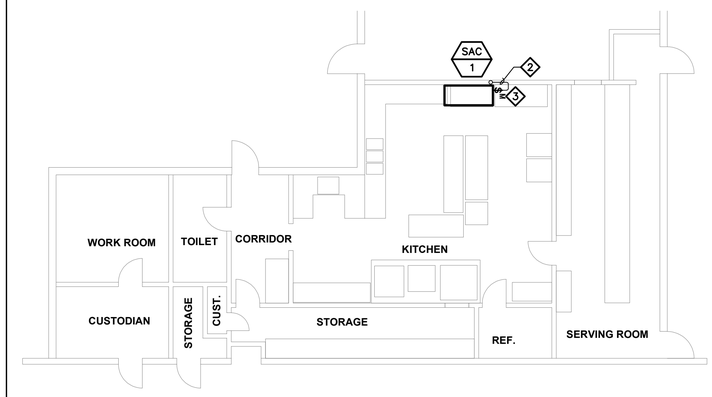
1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'M2'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL FLOOR PLAN | 1/32" = 1'-0" | 3



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 1



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

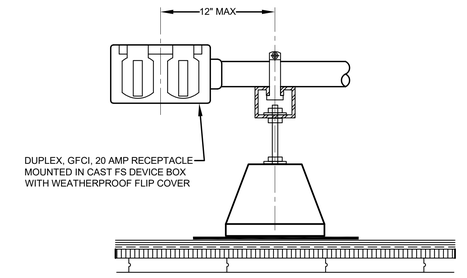
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

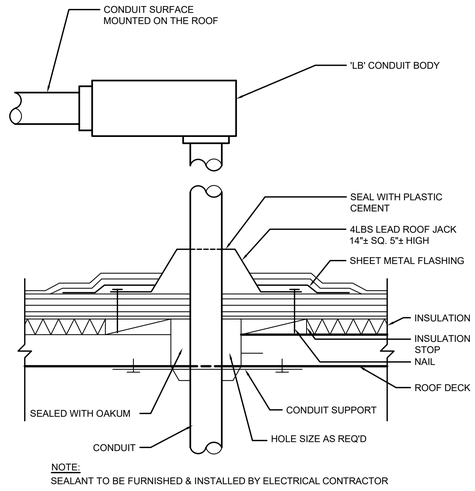


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Madison E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

MCKINLEY AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

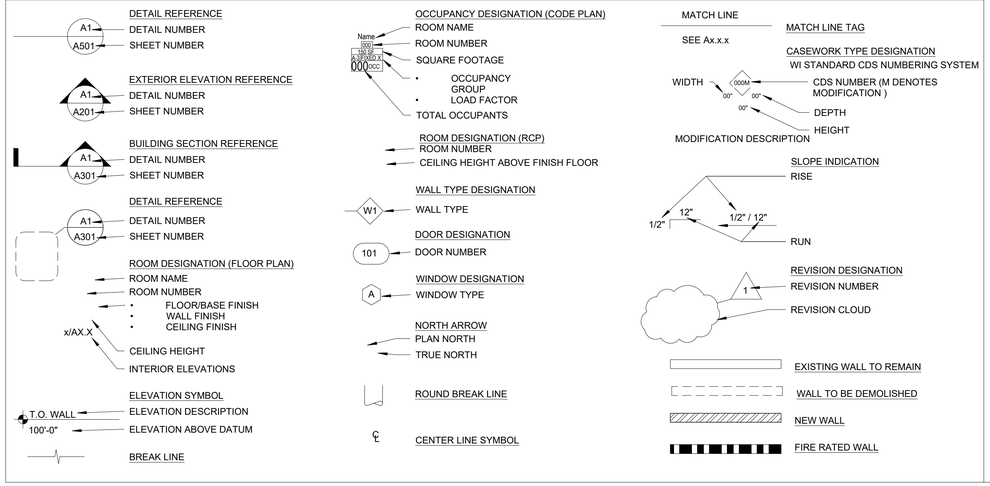
30 W. Ninth, Stockton, CA 95206

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
OFD	OVERFLOW DRAIN	UNO	UNLESS NOTED OTHERWISE
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND	**V**	
OPP	OPPOSITE	VCT	VINYL COMPOSITE TILE
ORIG	ORIGINAL	VERT	VERTICAL
		VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MCKINLEY E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

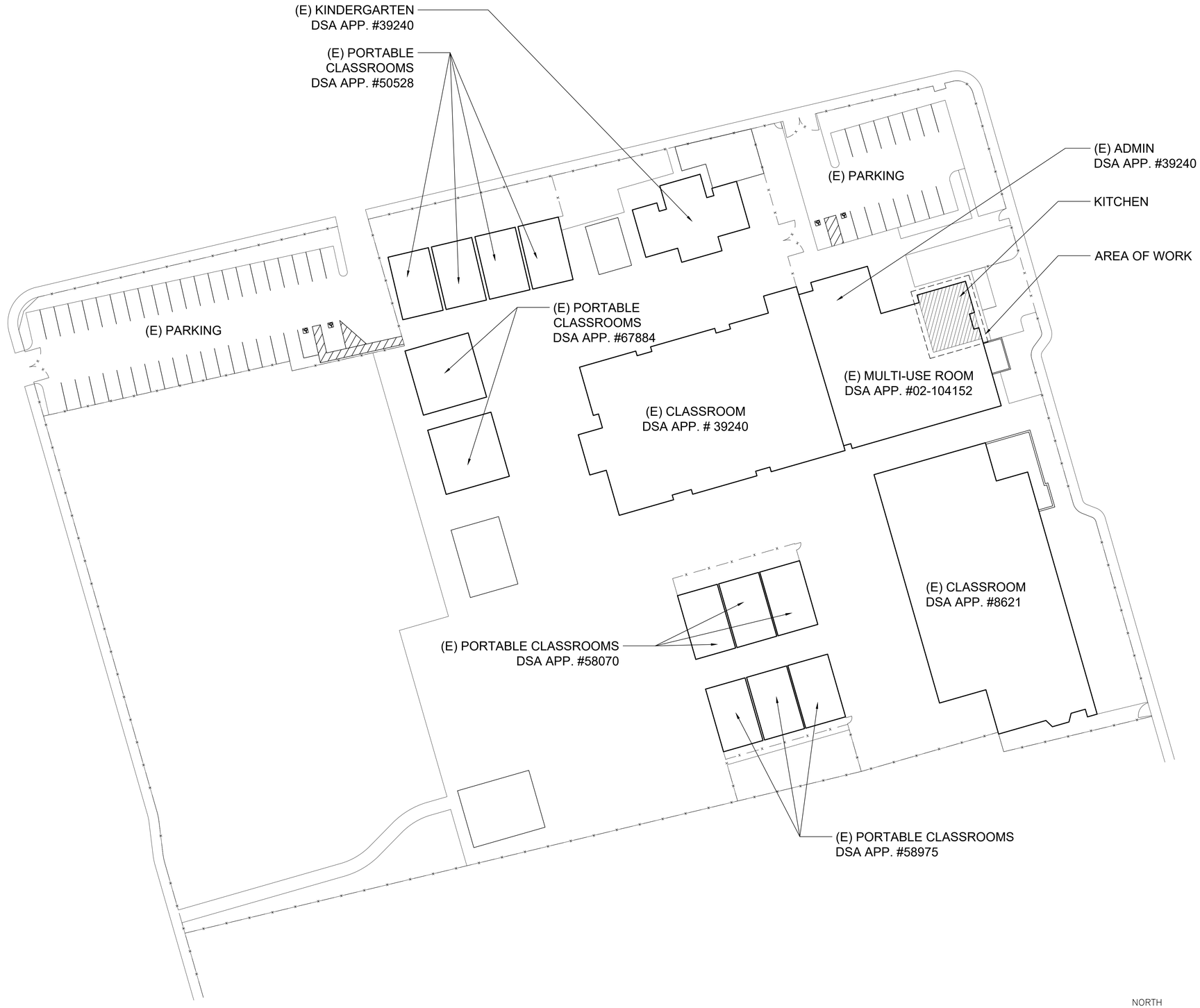
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 30'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MCKINLEY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

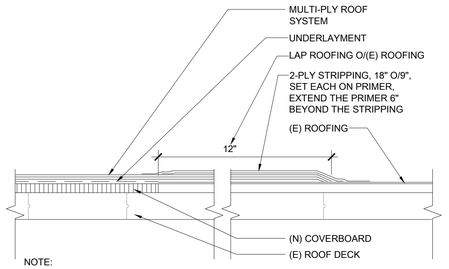
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

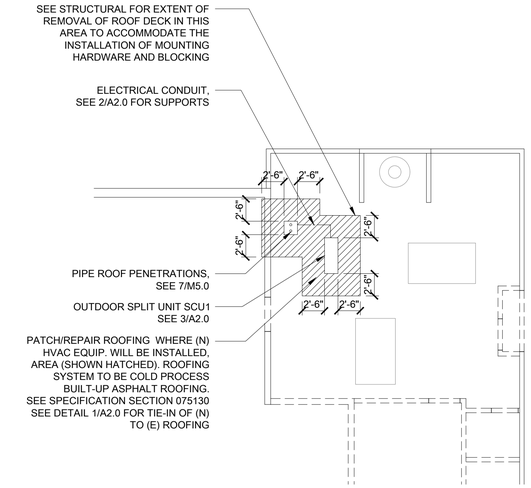
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

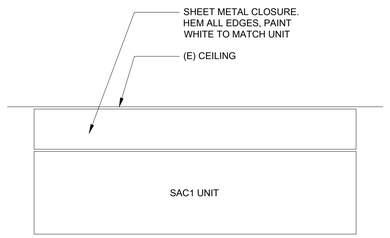
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

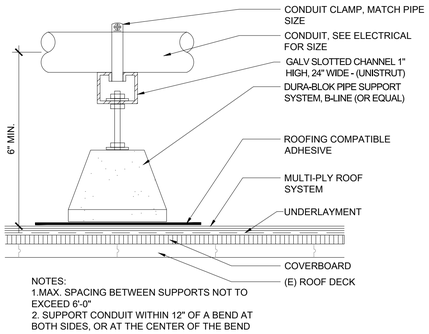
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

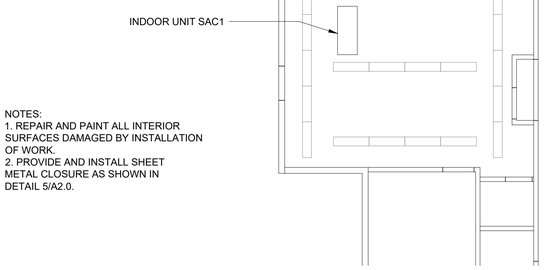
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

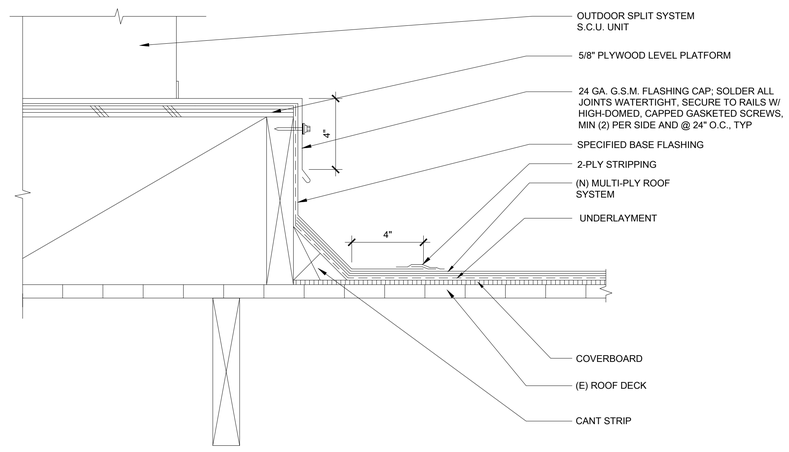
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

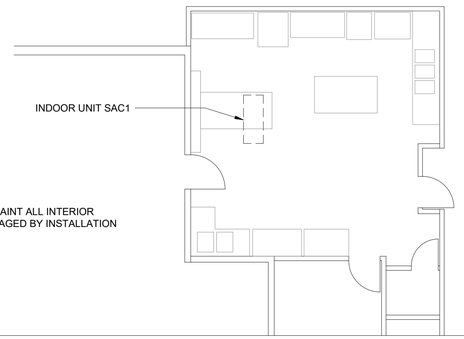
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MCKINLEY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	ONSG	OPEN WEB STEEL GIRDER
COL	COLUMN	ONSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY		
FOS	FACE OF STUD	SLV	SHORT LEG VERTICAL
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
		TOF	TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
    I JOIST MEMBERS — BA HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    CONTINUOUS — BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
t' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < t' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .592

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE F_p= .029 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

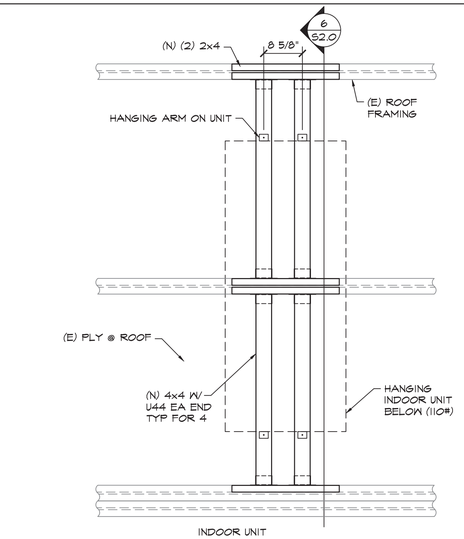
PROJECT #:
2023-072

REVISION #:

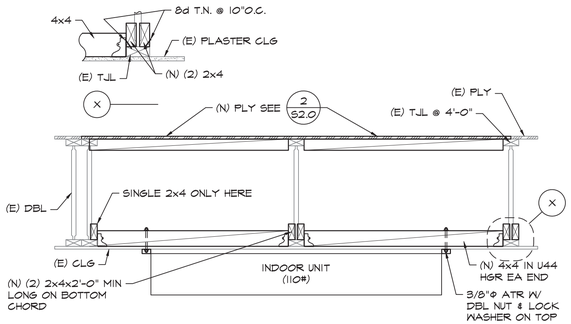
DATE:
10/23/2024

TYPICAL NOTES

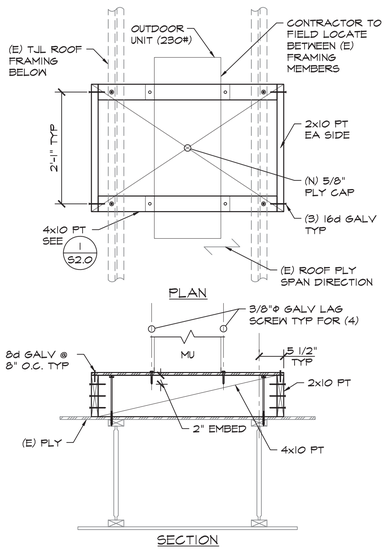
S1.0



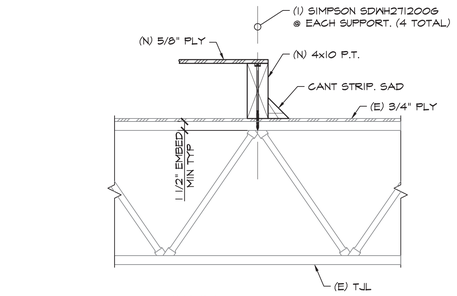
INDOOR UNIT
DETAIL
5 S2.0
3/4" = 1'-0" 022DET005_TJL



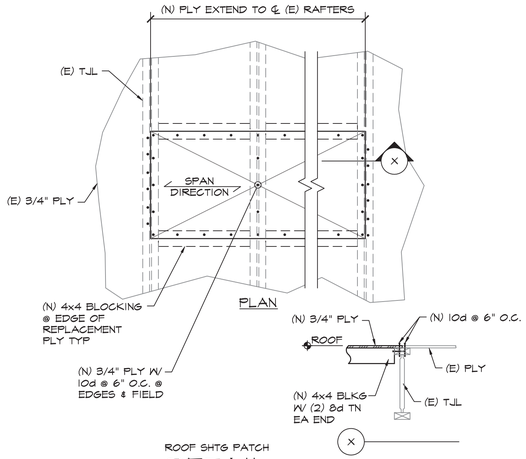
INDOOR UNIT
DETAIL
6 S2.0
3/4" = 1'-0" 022DET006_TJL



OUTDOOR UNIT ANCHORAGE
DETAIL
7 S2.0
3/4" = 1'-0" 022DET007_TJL



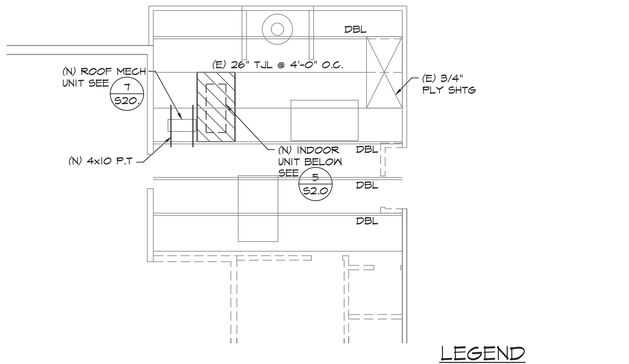
SLEEPER
DETAIL
1 S2.0
1" = 1'-0" 022DET001_TJL



ROOF SHTG PATCH
DETAIL
2 S2.0
3/4" = 1'-0" 022DET002_TJL

NOT USED
3 S2.0
= 1'-0"

NOT USED
4 S2.0
= 1'-0"



LEGEND

APPROXIMATE EXTENT OF REMOVED PLY SEE 2 S2.0

ROOF FRAMING PLAN
A S1.0
1/8" = 1'-0"

N

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-072

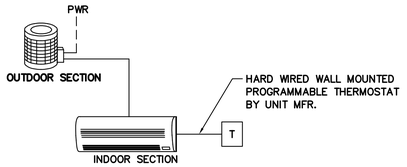
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4 5

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND		AND	Yes	AND		AND		AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KAP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

QC
INI	%

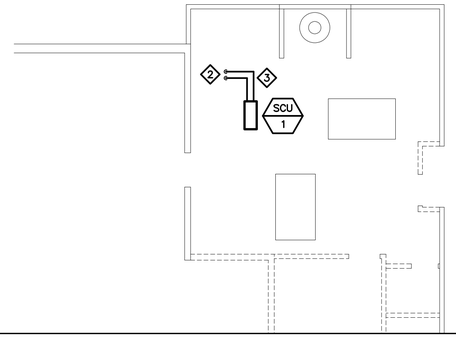
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

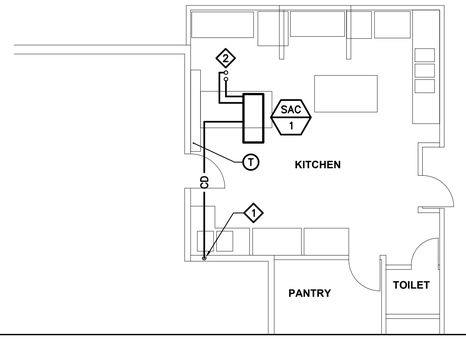
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE GYP. CEILING AND DOWN THRU WALL. CONNECT 3/4" CD TO (E) SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

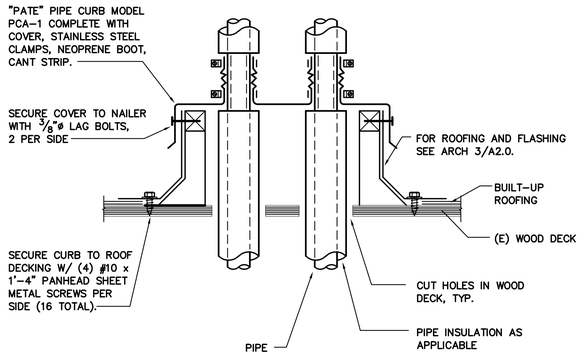
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

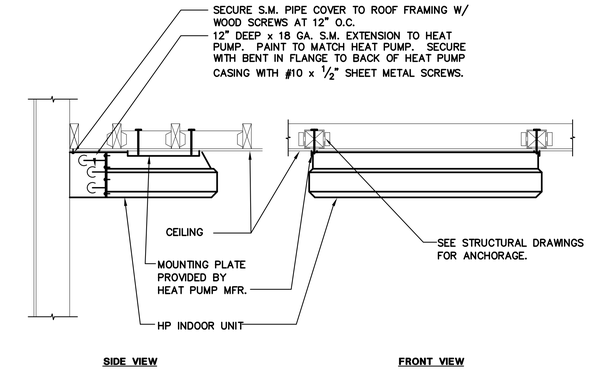
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

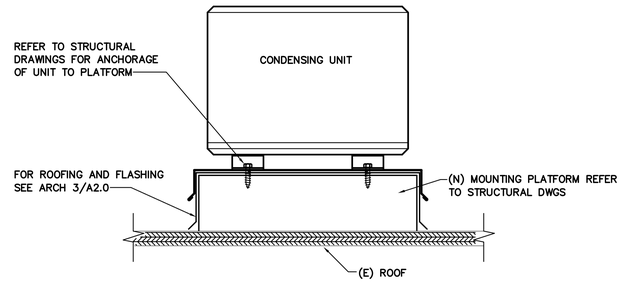
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

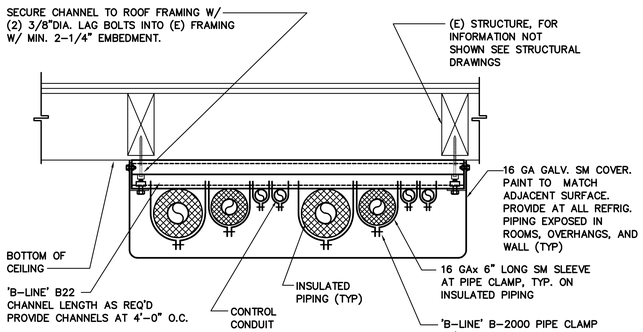
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA 10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

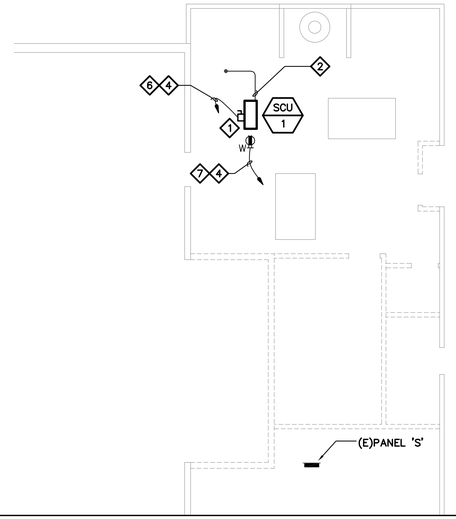
QC
INI	%

SHEET NOTES:

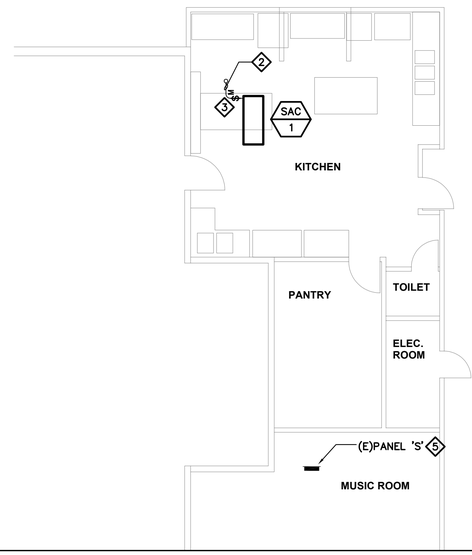
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'S'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1. FOR CONDUIT PENETRATION, PATCH, SEAL AND PAINT TO MATCH EXISTING.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN 1/8" = 1'-0" **1**



ELECTRICAL FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

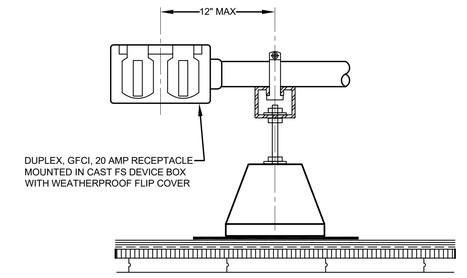
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

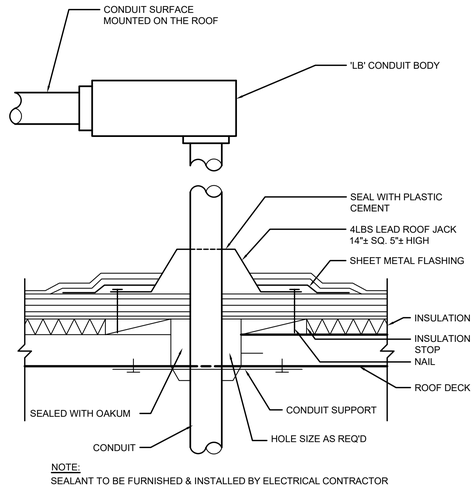


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Mckinley E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

MONTEZUMA AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

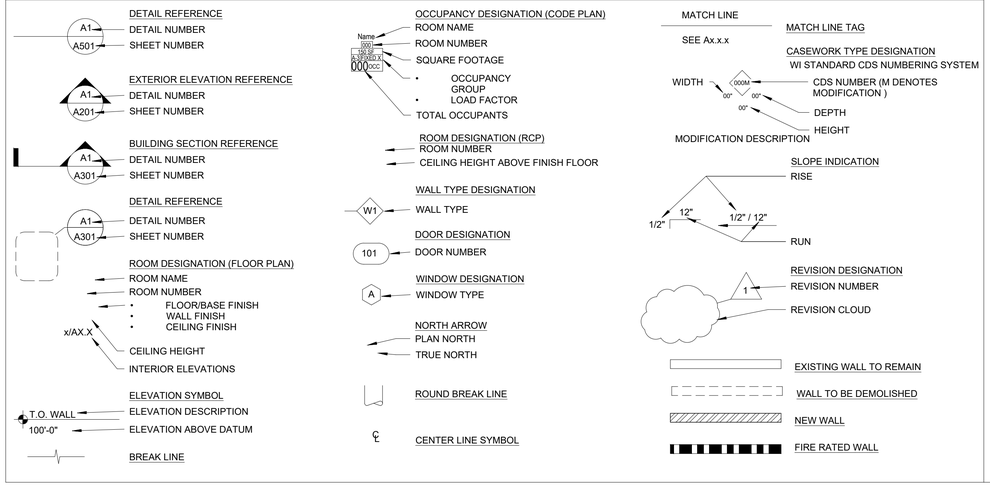
2843 Farmington Rd, Stockton, CA 95206

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MONTEZUMA E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

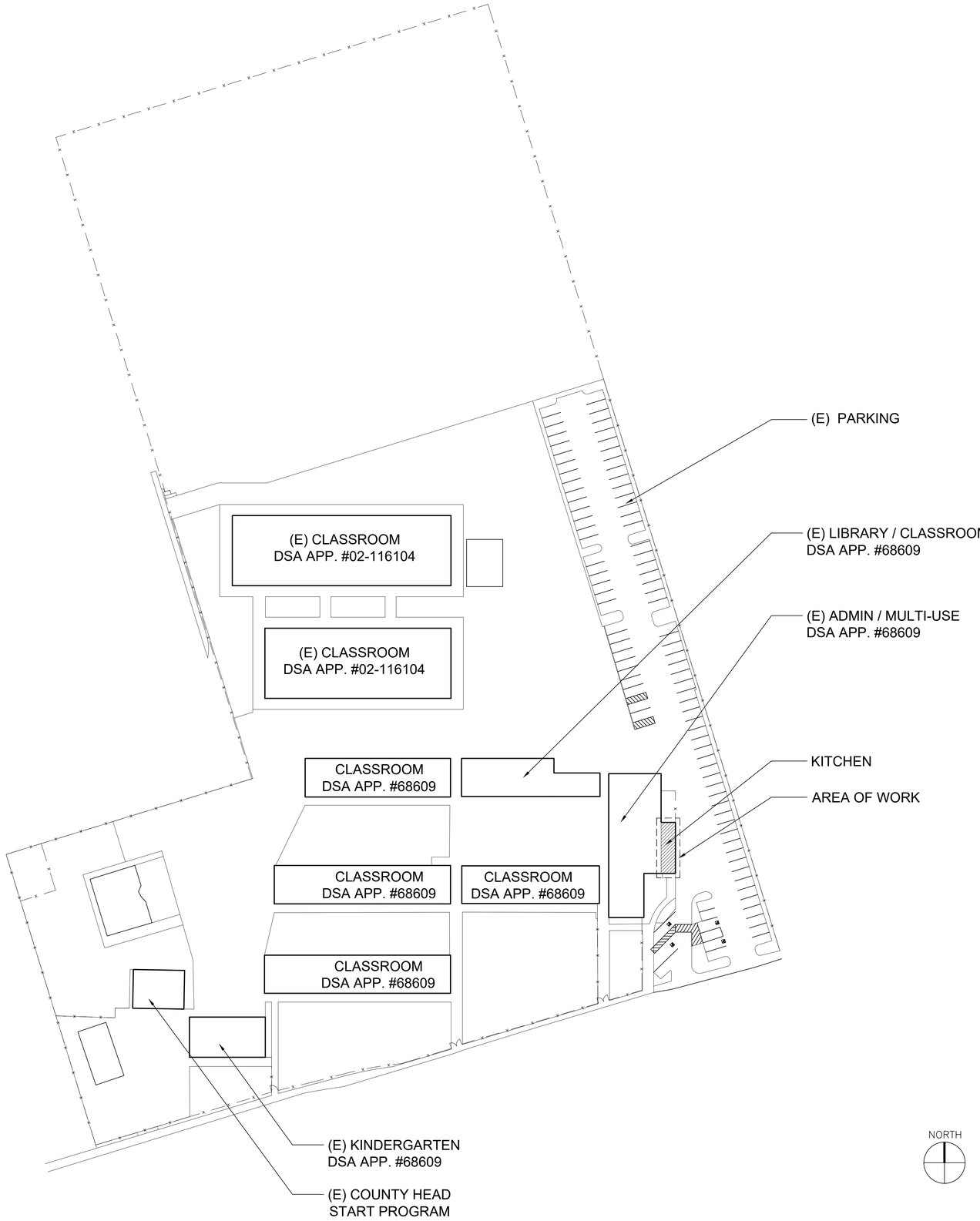
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 50'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

PROJECT TITLE:
MONTEZUMA E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

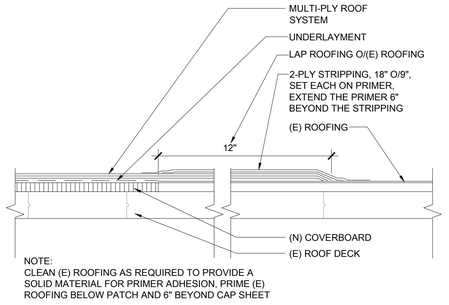
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

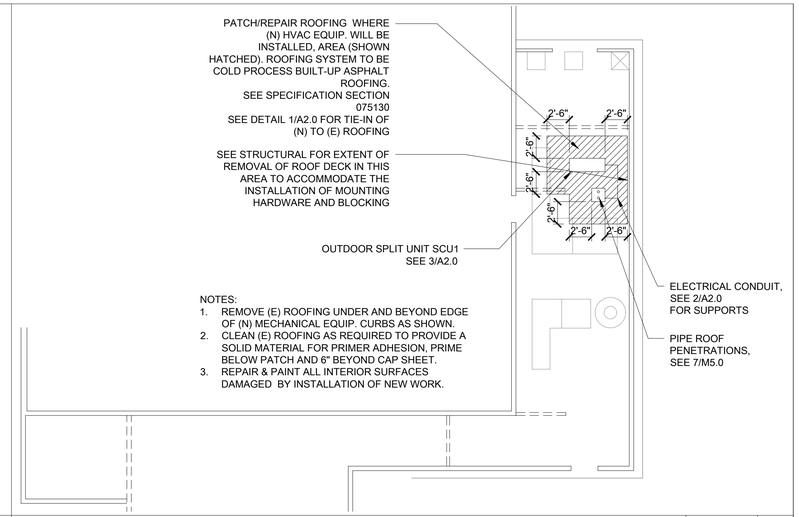
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

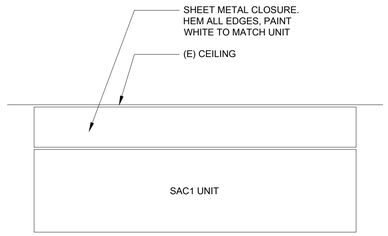
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

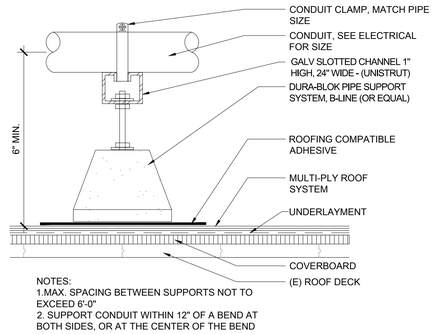
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

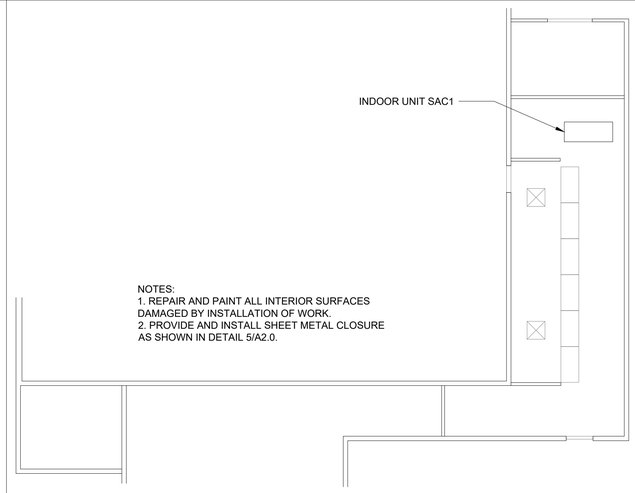
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

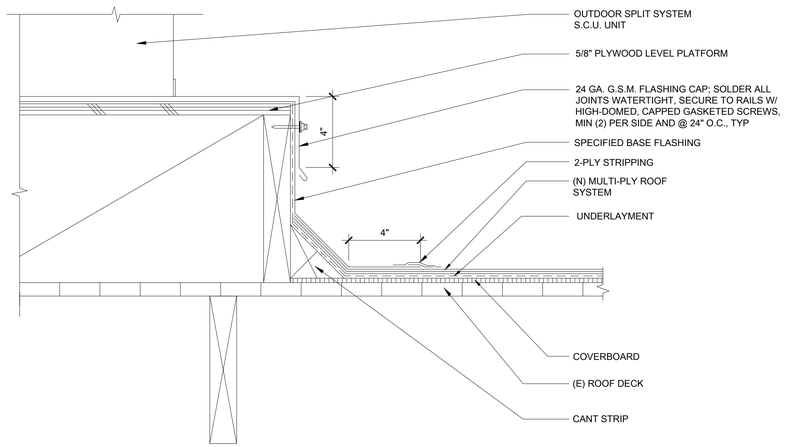
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

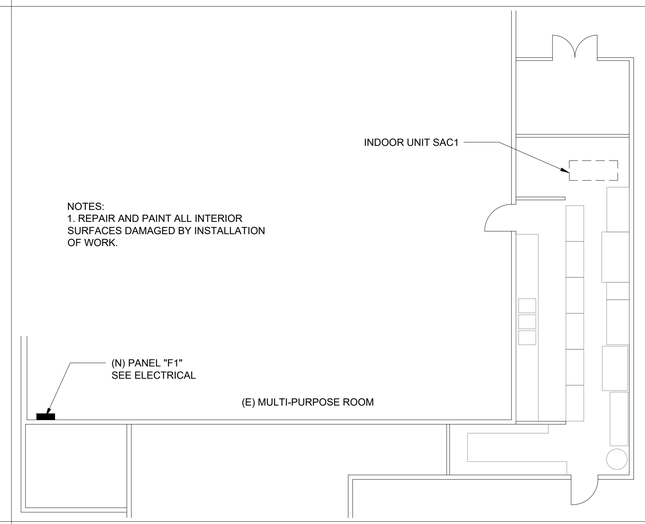
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
MONTEZUMA E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT
AB	ANCHOR BOLTS
AC	ASPHALTIC CONCRETE
AFF	ABOVE FINISH FLOOR
BN	BOUNDARY NAILING
BEV	BEVELED
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DF	DOUGLAS FIR
(E)	EXISTING
EF	EACH FACE
EW	EACH WAY
EJ	EXPANSION JOINT
EOS	EDGE OF SLAB
EN	EDGE NAILING
ES	EACH SIDE
FA	FRAMING ANCHOR
FD	FLOOR DRAIN
FF	FINISH FLOOR
FLG	FLANGE
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
GLB	GLUE LAMINATED BEAM
GSM	GALVANIZED SHEET METAL
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HDG	HOT DIPPED GALVANIZED
HP	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
ID	INSIDE DIAMETER
JT	JACK TRUSS
LFRS	LATERAL FORCE RESISTING SYTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LS	LAG SCREW
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MU	MECHANICAL UNIT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NSG	NON SHRINK GROUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
OWSG	OPEN WEB STEEL GIRDER
OWSJ	OPEN WEB STEEL JOIST
OH	OPPOSITE HAND
PCC	PRECAST CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED POINT
PW	PLYWOOD
R	RADIUS
SAD	SEE ARCHITECTURAL DRAWINGS
SDST	SELF DRILLING SELF TAPPING
SIM	SIMILAR
SCJ	SLIP CONTROL JOINT
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SS	STAINLESS STEEL
T24	TITLE 24 CALIFORNIA CODE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING TOP OF FRAMING
TOM	TOP OF MASONRY
T.O. SLAB	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
WS	WATER STOP
WWF	WELDED WIRE FABRIC
WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' < 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .609

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p= 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

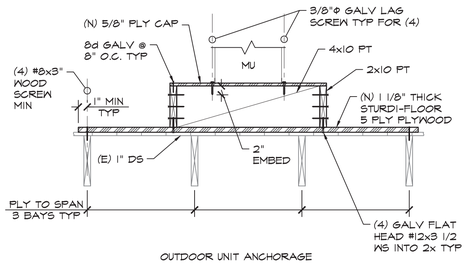
PROJECT #:
2023-073

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

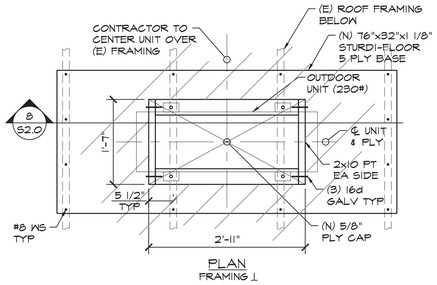
S1.0



OUTDOOR UNIT ANCHORAGE
SECTION (2x FRAMING)
8 / S2.0
3/4" = 1'-0" 022DET008

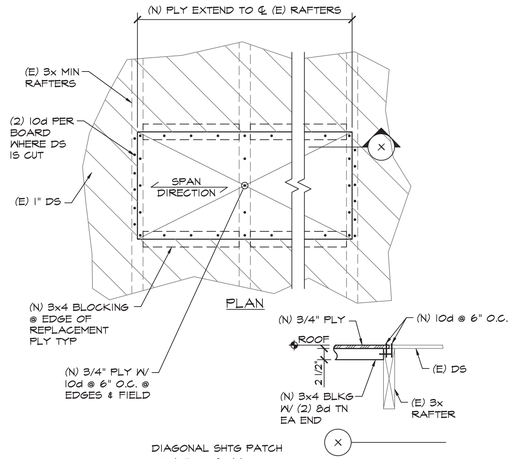
5 / S2.0 NOT USED
= 1'-0"

6 / S2.0 NOT USED
= 1'-0"

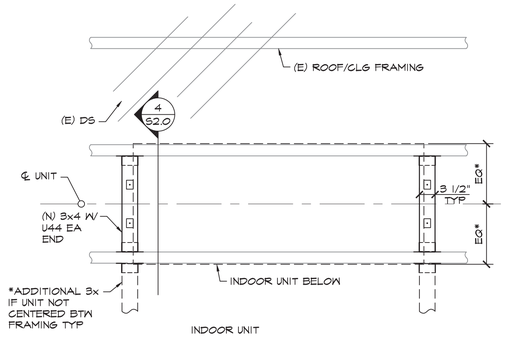


OUTDOOR UNIT ANCHORAGE
7 / S2.0 DETAIL (2x FRAMING)
3/4" = 1'-0" 022DET007_3x_DS

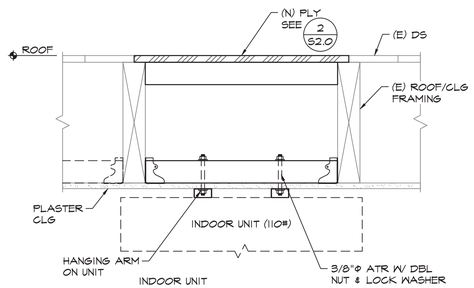
1 / S2.0 NOT USED
= 1'-0"



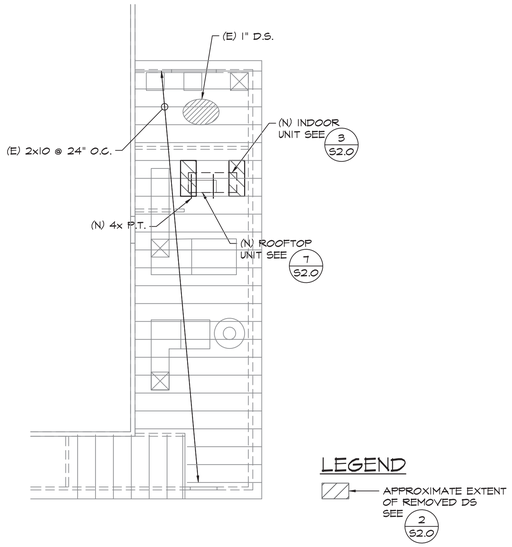
DIAGONAL SHTG PATCH
2 / S2.0 DETAIL
3/4" = 1'-0" 022DET002



INDOOR UNIT
3 / S2.0 DETAIL
3/4" = 1'-0" 022DET003



INDOOR UNIT
4 / S2.0 DETAIL
1 1/2"= 1'-0" 022DET004



KITCHEN
A / S2.0 ROOF FRAMING PLAN
1/8" = 1'-0"

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-073

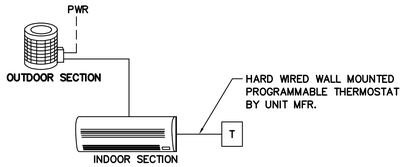
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
ƒ	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	MCA	MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

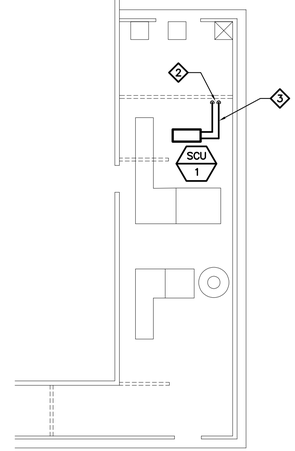
QC
INI | %

SHEET NOTES:

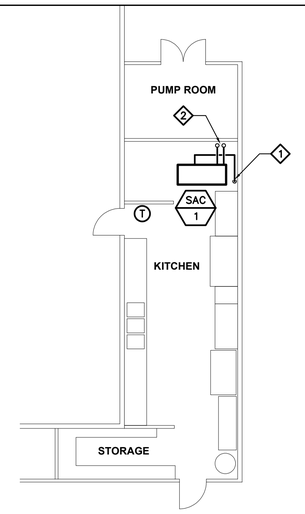
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. ROUTE 3/4" CD HIGH ON WALL (SEE 4/M5.0 FOR MOUNTING), THEN DOWN WALL TO BELOW (E) SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

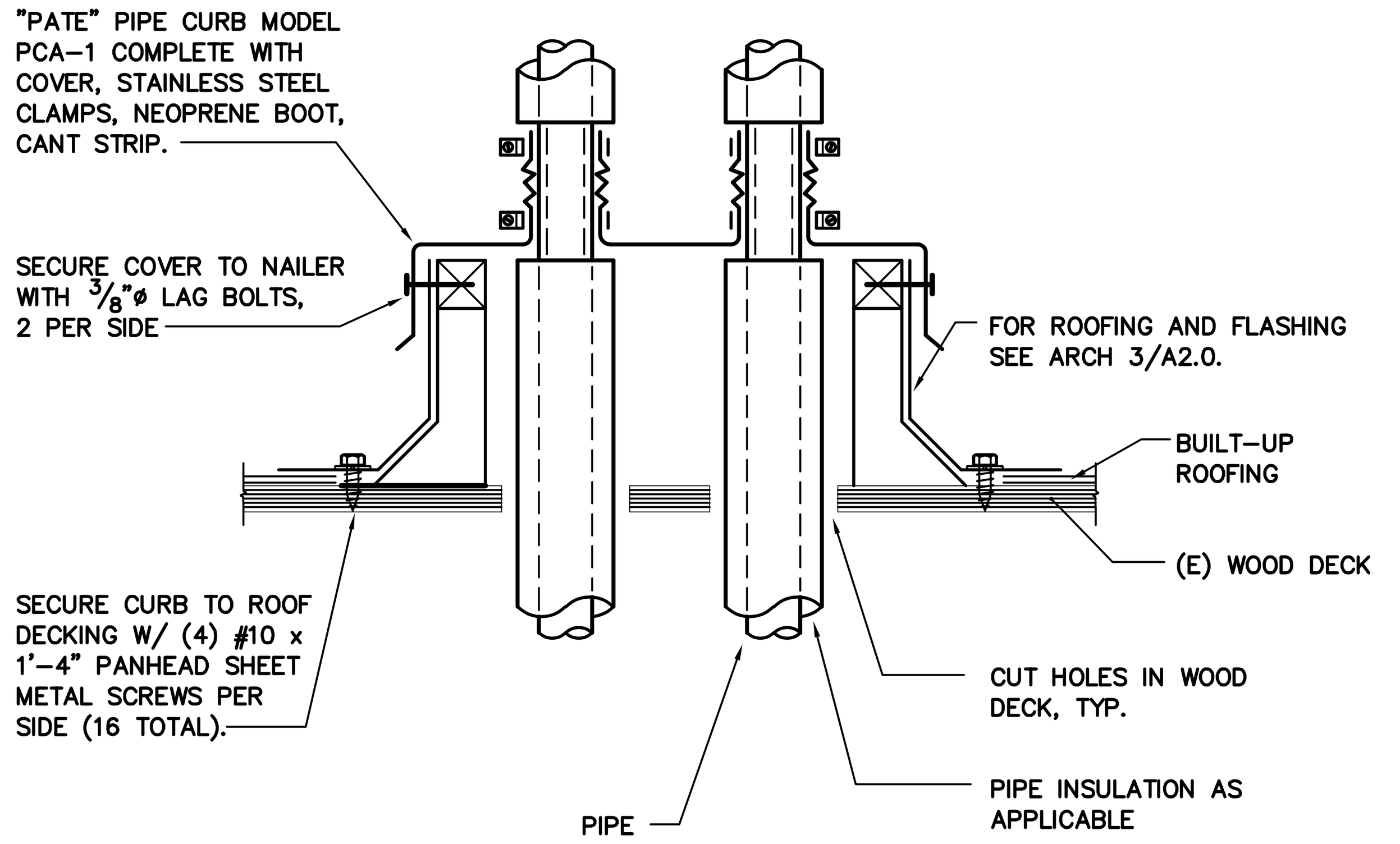
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

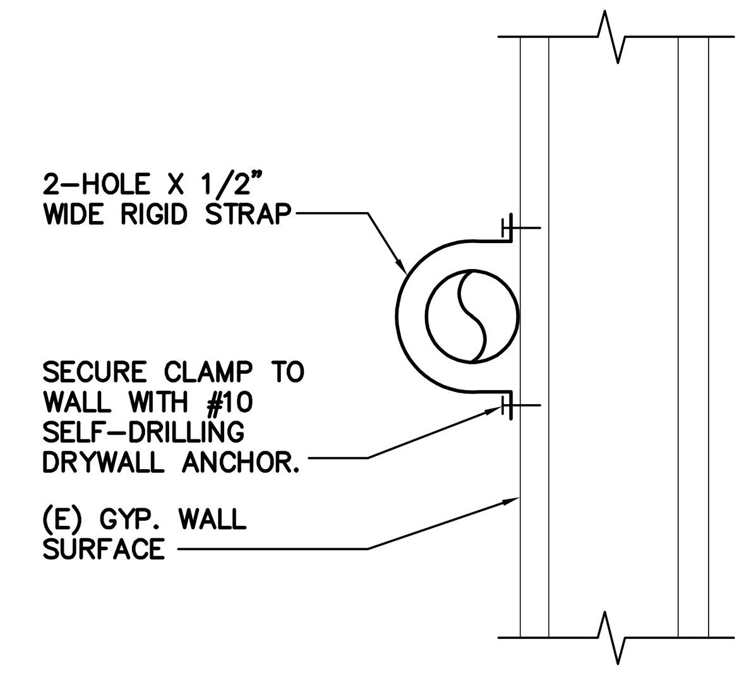
QC	
INI	%



PIPE THRU ROOF

SCALE : NONE

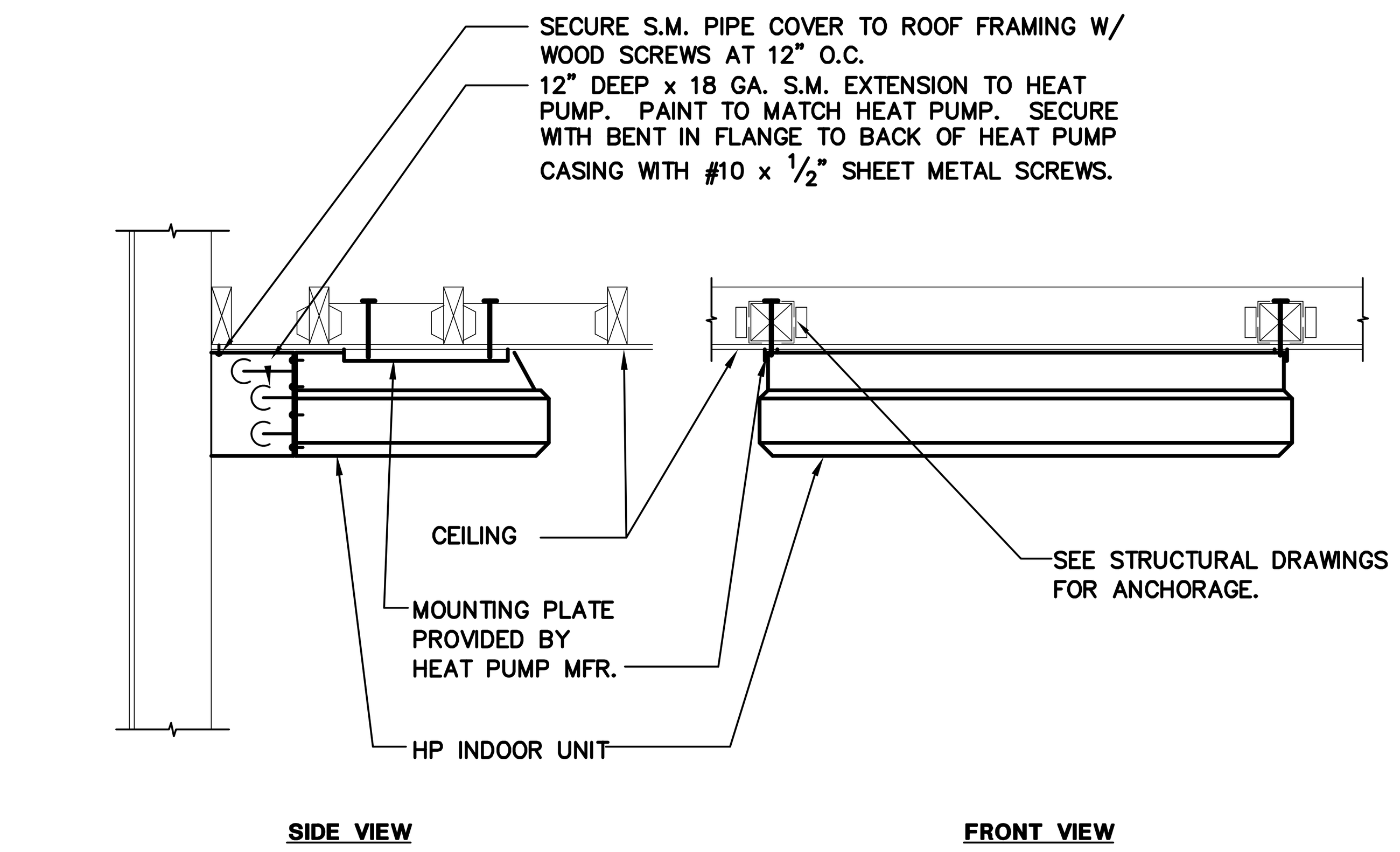
7 / M5.0



CD MOUNTING ON WALL

SCALE : NONE

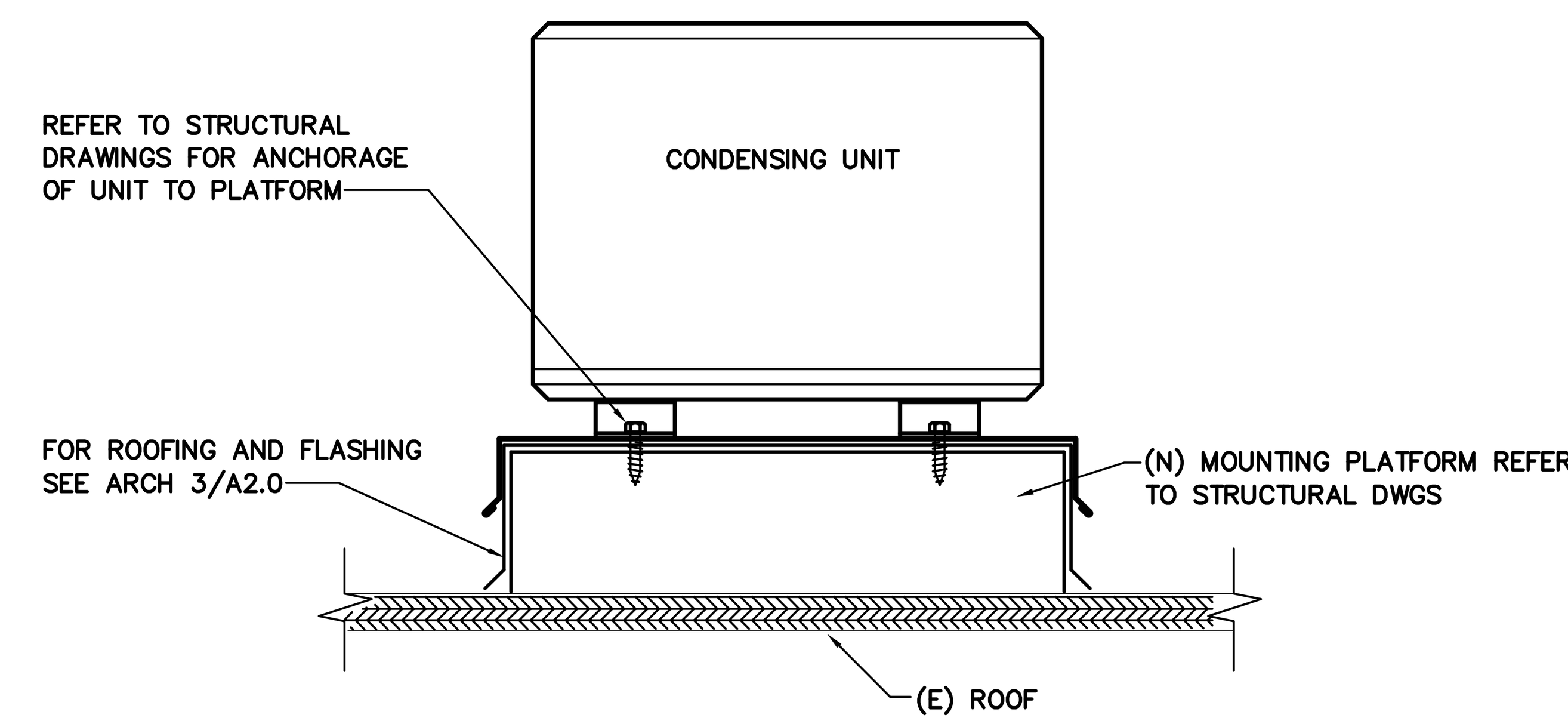
4 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

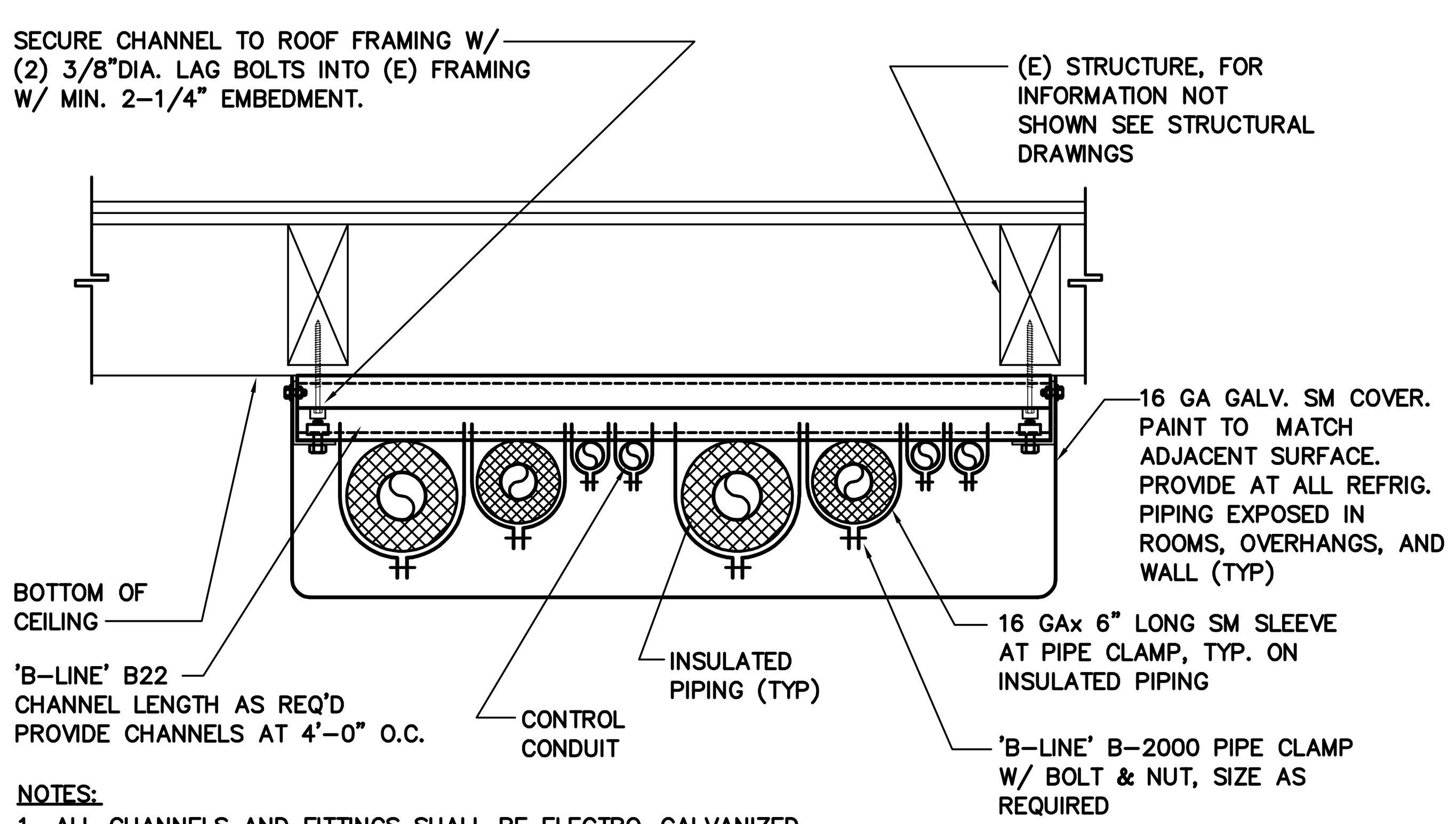
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

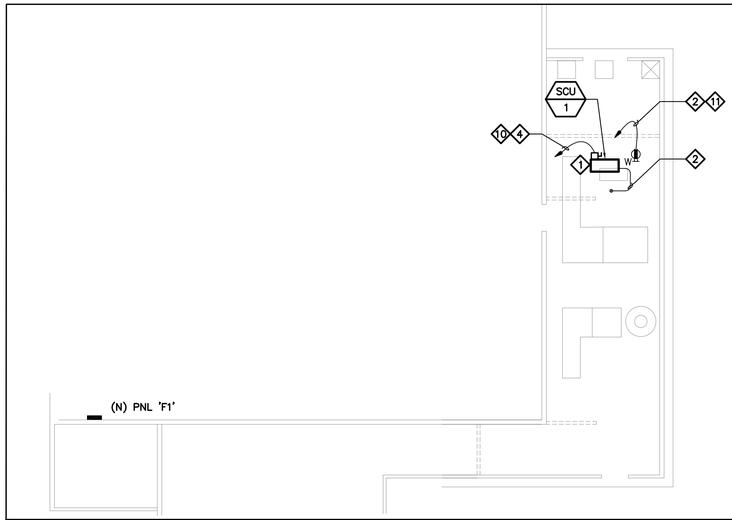
QC
INI | %

SHEET NOTES:

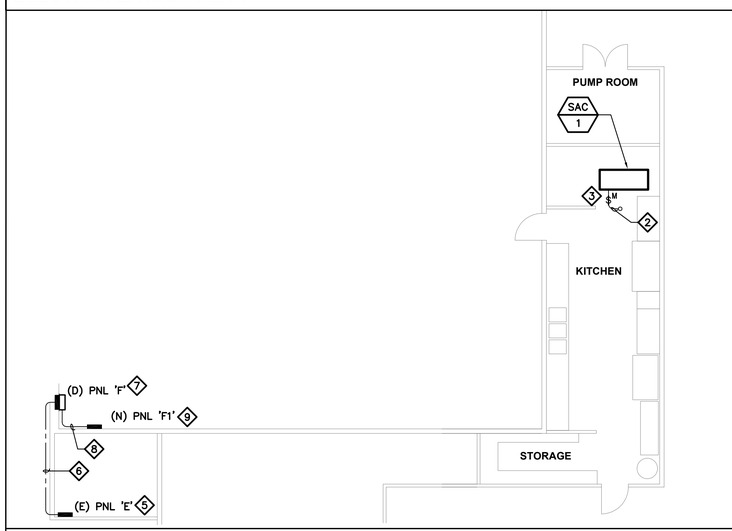
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'F1'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. REMOVE 1–50/3 CIRCUIT BREAKER FOR (E) PANEL 'F'. PROVIDE 1–100/3 CIRCUIT BREAKER WITH HARDWARE FOR (N) PANEL 'F1'.
6. (E) 1–1/4"–4#6. REMOVE WIRES. PULL–IN 4#2 "THWN" AND #8GND FROM 100/3 CIRCUIT BREAKER IN (E) PANEL 'E' TO (N) PANEL 'F1'.
7. REMOVE INTERIOR OF (E) PANEL 'F' AND CONVERT TO PULL BOX. BRANCH CIRCUIT WIRING TO REMAIN. EXTEND 8–20 AMP CIRCUITS TO (N) PANEL 'F1'. PROVIDE SURFACE COVER OVER (E) BOX. FABRICATE COVER TO MATCH SIZE OF (E) PANEL BACKBOX 4" DEEP MAX TO COMPLY WITH ADA. PAINT TO MATCH WALL.
8. 1–1/2" – 4#2, #8GND
   4–3/4" 4#12, #12GND IN EACH CONDUIT
9. NEW 100AMP, 120/208V 3P 4W 24 POLE PANEL WITH 100/3 MAIN, 1–50/2 AND 10–20/1 CIRCUIT BREAKERS. PROVIDE PANEL SKIRT FROM BOTTOM OF PANEL TO 10" AFF. SEAL SKIRT AT BOTTOM. PAINT TO MATCH WALL. RECONNECT 8 BRANCH CIRCUITS. CONNECT SCU TO 50/2 AND ROOF RECEPTACLES TO 20/1.
10. 1" – 2#6, 1#10GND
11. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

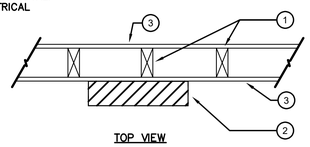
ELECTRICAL FLOOR AND ROOF PLAN

E2.0

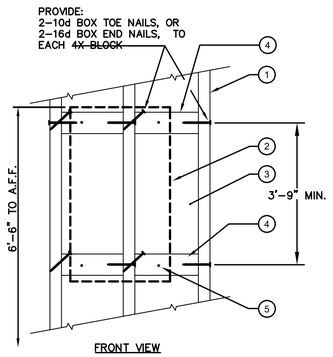
QC
INI | %

KEY NOTES:

1. WOOD STUD
2. SURFACE MOUNTED PANEL CABINET, (SEE NOTE #1 FOR PANEL WEIGHT)
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)
4. 4X MIN. WOOD BLOCK, FASTENED TO VERTICAL STUDS AT EACH END.
5. 5/16" X 2 1/2" LAG SCREWS WITH 1" MIN. EMBED. TO BLOCK, OR STUD. (4) LAG SCREWS TOTAL. (INSTALLED BY ELECTRICAL CONTRACTOR)



TOP VIEW



NOTES:

1. PANEL WEIGHT:
   REGULAR: 150 LBS.
   LARGE: 250LBS. MAX
2. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.
3. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = ±50".

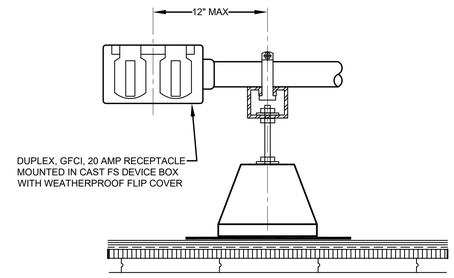
FRONT VIEW

SURFACE PANELBOARD WOOD FRAMING MOUNTING DETAIL

SCALE : NONE

3 / E5.0

REFER TO ARCHITECTURAL SHEET A2.0, DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

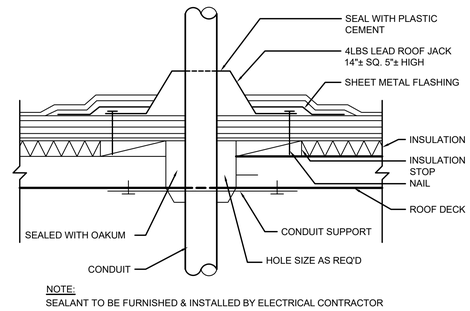


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1 / E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2 / E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Montezuma E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

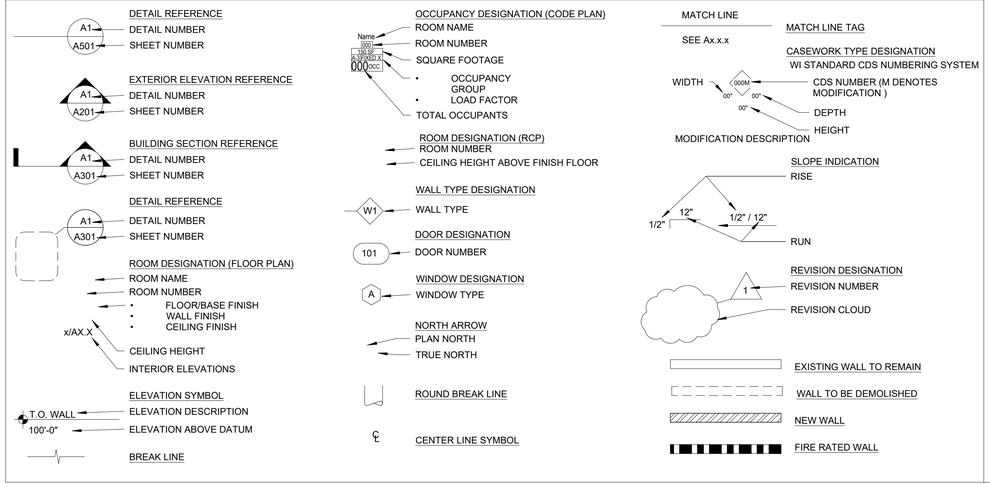
PEYTON AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

2525 Gold Brook Dr, Stockton, CA 95212

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT	**J**		RH	RELATIVE HUMIDITY
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER	JAN	JANITOR	RM	ROOM
AD	AREA DRAIN	EXP	EXPOSED			RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR	**K**	(NOT USED)	RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT					RWL	RAIN WATER LEADER
ALUM	ALUMINUM	**F**		**L**			
ANOD	ANODIZED	F	FAHRENHEIT	LAB	LABORATORY	**S**	
ARCH	ARCHITECT	FA	FIRE ALARM	LAV	LAVATORY	S	SMOKE DETECTOR
@	AT	FACP	FIRE ALARM CONTROL PANEL	LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		FDC	FIRE DEPARTMENT CONNECTION			SCHED	SCHEDULE
B						SECT	SECTION
BD	BOARD			LLH	LONG LEG HORIZONTAL	SIM	SIMILAR
BLDG	BUILDING	FD	FLOOR DRAIN	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION
BO	BOTTOM OF	FEC	FIRE EXTINGUISHER CABINET	LPT	LOW POINT	SS	STAINLESS STEEL
						STD	STANDARD
C		FE	FIRE EXTINGUISHER	**M**		STS	SELF TAPPING SCREW
C	CELSIUS	FG	FINISH GRADE	MACH RM	MACHINE ROOM	STRUCT	STRUCTURAL
CH	COAT HOOK	FHC	FIRE HOSE CABINET	MAX	MAXIMUM		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FIN	FINISH	MFR	MANUFACTURER	**T**	
		FLR	FLOOR	MECH	MECHANICAL	T	TREAD
CG	CORNER GUARD	FND	FOUNDATION	MEZZ	MEZZANINE	TEL	TELEPHONE
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING	MIN	MINIMUM	TEMP	TEMPORARY
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE	MO	MASONRY OPENING	THK	THICK
CL	CENTER LINE	FOM	FACE OF MASONRY			TOC	TOP OF CONCRETE
CLG	CEILING	FOS	FACE OF STUD	**N**		TOM	TOP OF MASONRY
CLO	CLOSET	FOW	FACE OF WALL	NA	NOT APPLICABLE	TOP	TOP OF PARAPET
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM	NIC	NOT IN CONTRACT	TOS	TOP OF SLAB; TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE	NOM	NOMINAL	TOW	TOP OF WALL
COL	COLUMN	FT	FEET	NTS	NOT TO SCALE	TYP	TYPICAL
CONC	CONCRETE	FV	FIELD VERIFY			TO	TOP OF
CONT	CONTINUOUS			**O**			
CORR	CORRIDOR	**G**		OC	ON CENTER	**U**	
CT	CERAMIC TILE	GA	GAUGE	OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	UL	UNDERWRITER'S LABORATORIES
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED			UNO	UNLESS NOTED OTHERWISE
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE	OFD	OVERFLOW DRAIN		
				OH DR	OVERHEAD DOOR	**V**	
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM	OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
D	DEEP			OPP	OPPOSITE	VERT	VERTICAL
DEG	DEGREE	GL	GLASS	ORIG	ORIGINAL	VEST	VESTIBULE
DEMO	DEMOLITION	GWB	GYPSUM WALL BOARD	**P**		VIF	VERIFY IN FIELD
DF	DRINKING FOUNTAIN	GYP	GYPSUM	P LAM	PLASTC LAMINATE		
DIA	DIAMETER			PLAS	PLASTER	**W**	
DIM	DIMENSION	**H**		PLUMB	PLUMBING	W/	WITH
DN	DOWN	H	HIGH	PR	PAIR	W/O	WITHOUT
DS	DOWNSPOUT	HB	HOSE BIBB	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DWGS	DRAWINGS	HDR	HEADER	PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
		HM	HOLLOW METAL	PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
E		HPT	HIGH POINT			WRB	WEATHER RESISTIVE BARRIER
E	EXISTING	HR	HOUR	**Q**			
EA	EACH	HT	HEIGHT	QT	QUARRY TILE	X,Y,Z	NOT USED
EJ	EXPANSION JOINT						
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**		R		THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.	
				R	RISER OR RADIUS		
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION	RAD	RADIUS		
ELEC	ELECTRICAL			RCP	REFLECTED CEILING PLAN		
ELEV	ELEVATOR	IN	INCH	RD	ROOF DRAIN		
EOS	EDGE OF SLAB	INFO	INFORMATION	REF	REFRIGERATOR		
ERD	EXISTING ROOF DRAIN	INT	INTERIOR	REQD	REQUIRED		
EQ	EQUAL			REV	REVISION		

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
PEYTON E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

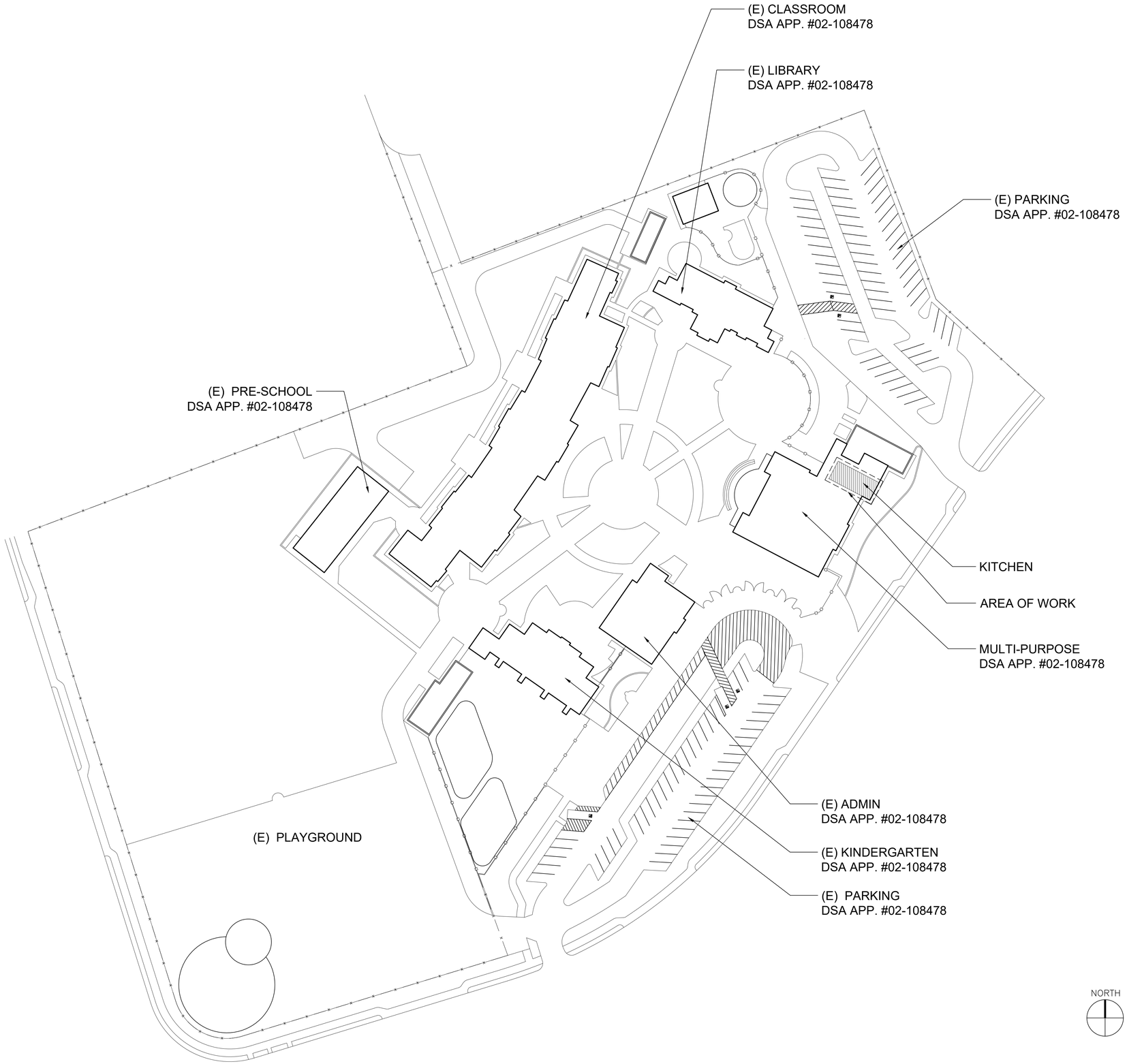
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 50'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
PEYTON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

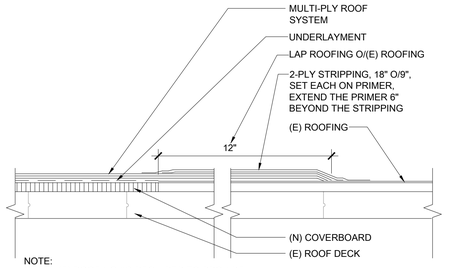
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

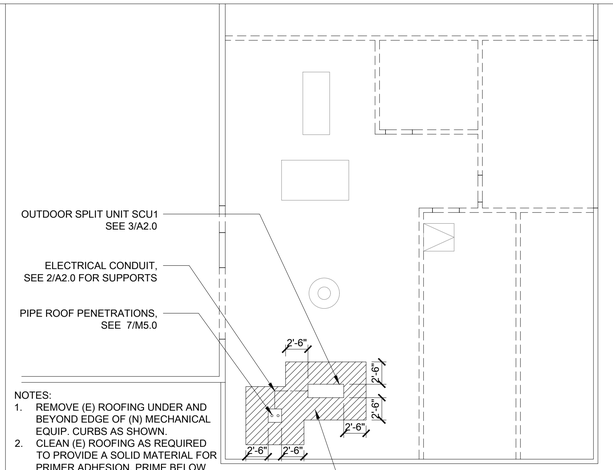
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

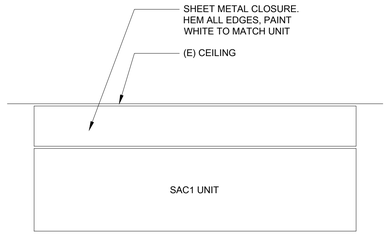
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY

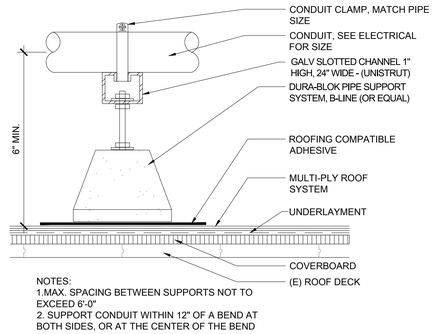
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

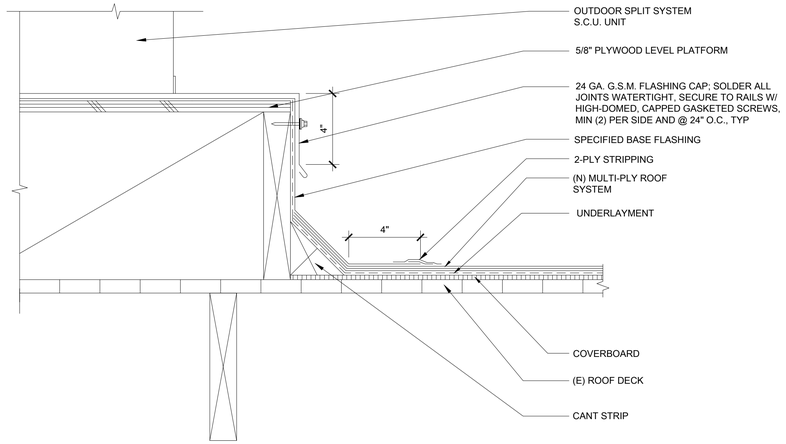
CONDUIT SUPPORT

3" = 1'-0" | 2

NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

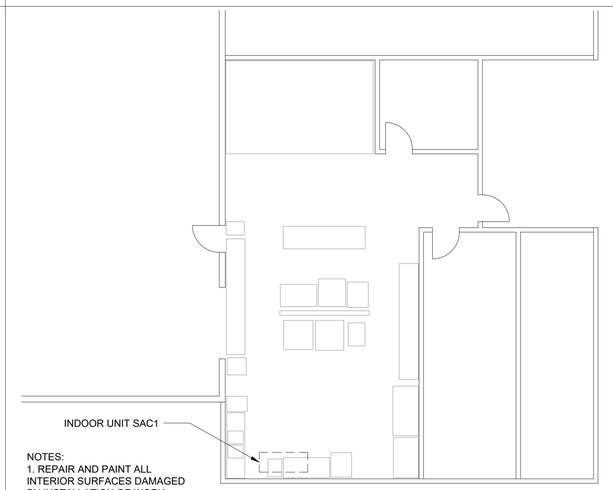
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
PEYTON E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PRECAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY		
FOS	FACE OF STUD	SLV	SHORT LEG VERTICAL
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

PREFABRICATED WOOD FRAMING MEMBERS

(SHOP DRAWINGS TO BE SUBMITTED PRIOR TO FABRICATION)

1. PREFABRICATED MEMBERS IDENTIFIED HEREIN ARE BASED ON PRODUCTS MANUFACTURED FOR "RedBuilt LLC" AND SHALL BE USED AS THE MINIMUM REQUIREMENT. SUBSTITUTIONS OF ALTERNATE PRODUCTS SHALL HAVE EQUAL OR GREATER PROPERTIES AND CAPACITIES AND MUST HAVE ALL APPROPRIATE APPROVALS.
2. MEMBERS INDICATED AS "I JOIST" SHALL CONSIST OF LVL (LAMINATED VENEER LUMBER) TOP AND BOTTOM CHORDS AND OSB (ORIENTED STRAND BOARD) WEBS IN CONFORMANCE WITH ICC ES ESR -2994 DEPTH AND SERIES AS INDICATED ON PLANS.
3. MEMBERS INDICATED AS "LVL", "LSL", OR "PSL" SHALL MEET MINIMUM PROPERTIES AS SET OUT BELOW:

LVL:	LSL:	PSL:
E = 2.0E6 PSI	E = 1.55E6 PSI	E = 2.0E6 PSI
Fb = 2600 PSI	Fb = 2325 PSI	Fb = 2900 PSI
Fv = 285 PSI	Fv = 525 PSI	Fv = 290 PSI

4. I JOIST BLOCKING TO BE OF SAME MATERIAL AS I JOISTS, UNO.
5. WEB STIFFENERS REQUIRED AT ALL END SUPPORTS, HANGERS AND INTERMEDIATE SUPPORTS.
6. FULL DEPTH I JOIST BLOCKING OR BRIDGING REQUIRED FOR ALL ROOF RAFTERS AT 10'-0" O.C. AND ALL FLOOR JOISTS AT 8'-0" O.C. FOR RAFTER OR JOIST SPAN OF 16'-0" OR MORE.
7. FULL DEPTH BLOCKING REQUIRED BETWEEN RAFTERS OR JOISTS AT ALL SUPPORTS.
8. DOUBLE ALL JOISTS UNDER AND PARALLEL TO PARTITION WALLS.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT I SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. PRIOR TO FABRICATION, SHOP DRAWINGS, SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER ON ALL STRUCTURAL STEEL.
   SHOP DRAWINGS: SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS INTENDED FOR USE. DUPLICATION OF DESIGN DRAWINGS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
6. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
8. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .569

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\, a_p\, S_{DS}\, W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE $F_p = 0.29\, W_p$

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

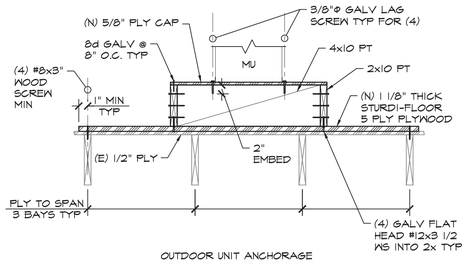
PROJECT #:
2023-074

REVISION #:

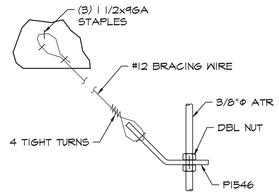
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

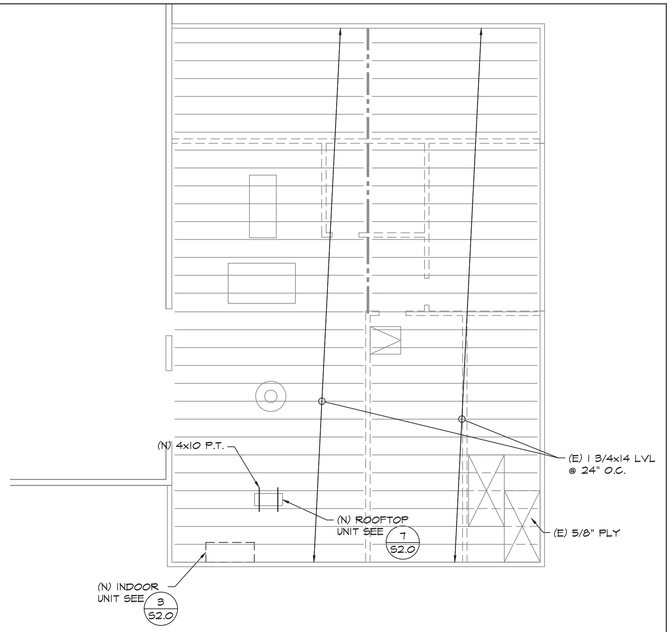
S1.0



OUTDOOR UNIT ANCHORAGE
SECTION (2x FRAMING)
8 / 52.0
3/4" = 1'-0" 022DET008



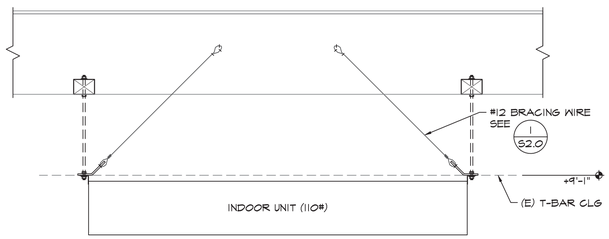
BRACING WIRE
DETAIL
1 / 52.0
3" = 1'-0" 074DET002



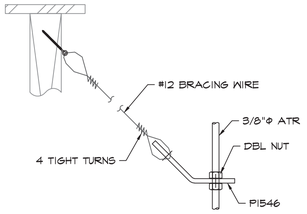
KITCHEN
ROOF FRAMING PLAN
A / 52.0
1/8" = 1'-0"

N

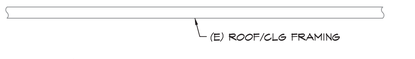
NOT USED
5 / 52.0
= 1'-0"

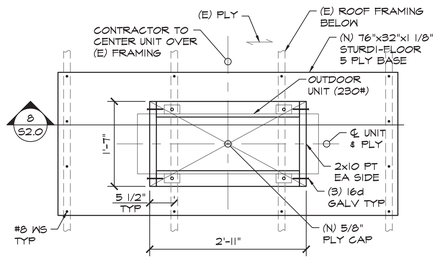


INDOOR UNIT
DETAIL
2 / 52.0
1" = 1'-0" 074DET003

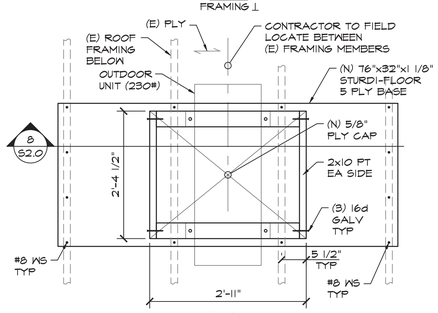


BRACING WIRE
DETAIL
6 / 52.0
3" = 1'-0" 074DET001



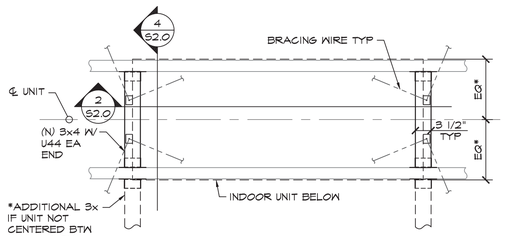


PLAN
FRAMING I

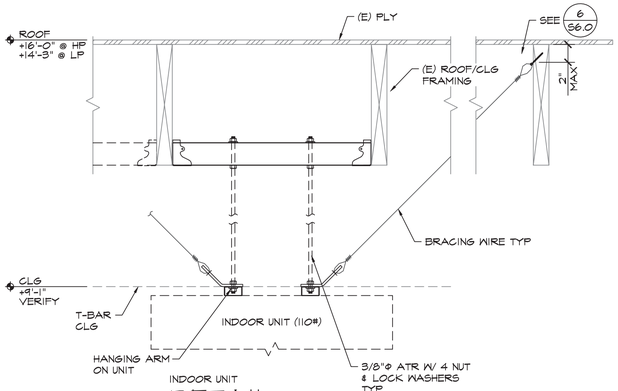


PLAN
FRAMING II

OUTDOOR UNIT ANCHORAGE
DETAIL (2x FRAMING)
7 / 52.0
3/4" = 1'-0" 022DET007_3x_DS



INDOOR UNIT
DETAIL
3 / 52.0
3/4" = 1'-0" 022DET005



INDOOR UNIT
DETAIL
4 / 52.0
1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

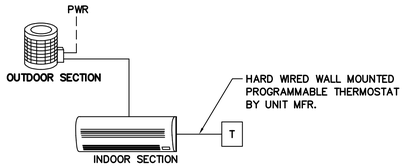
PROJECT #:
2023-074

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	1 2 3 4 5

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY 230417.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KEVIN DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

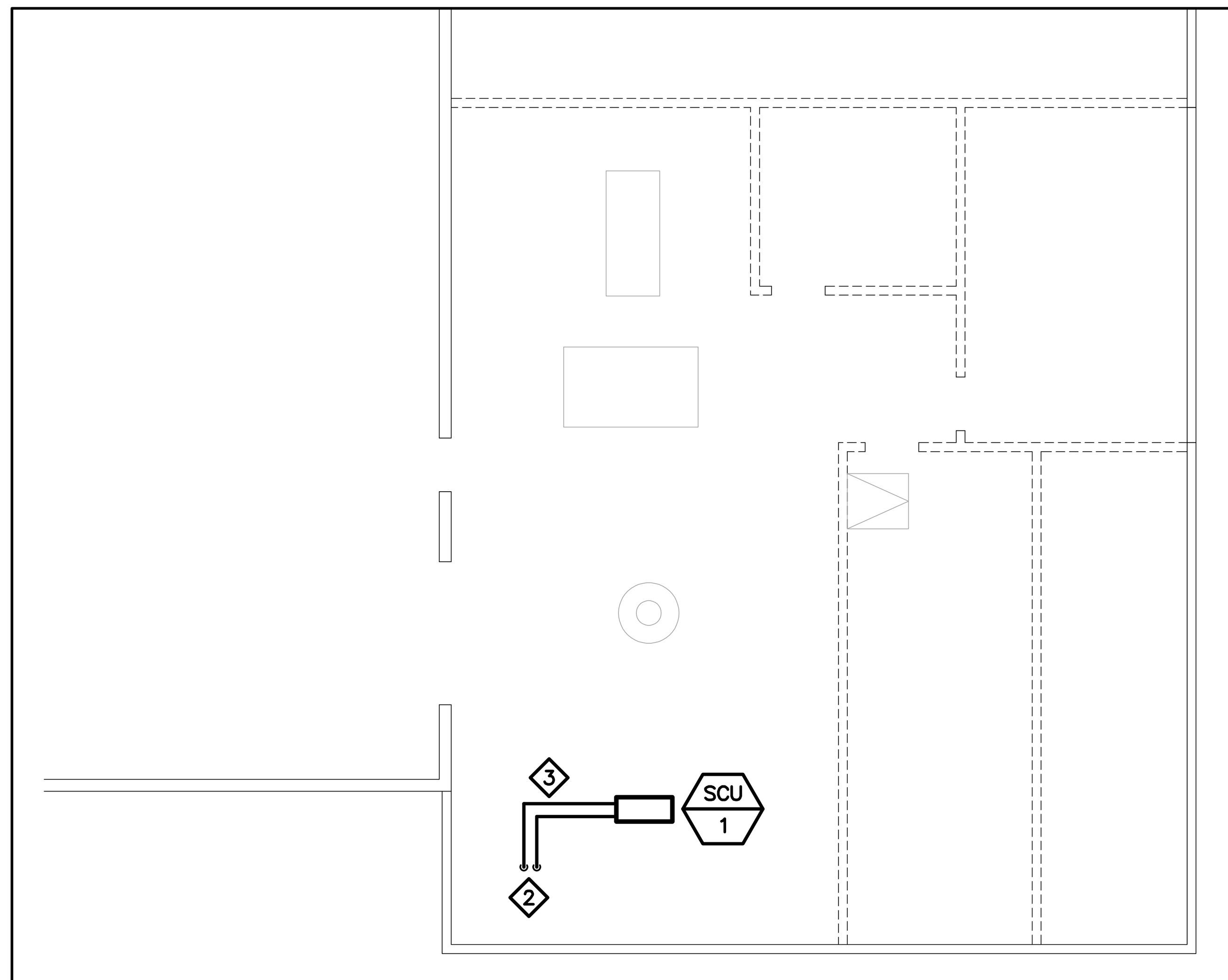
QC	
INI	%

SHEET NOTES:

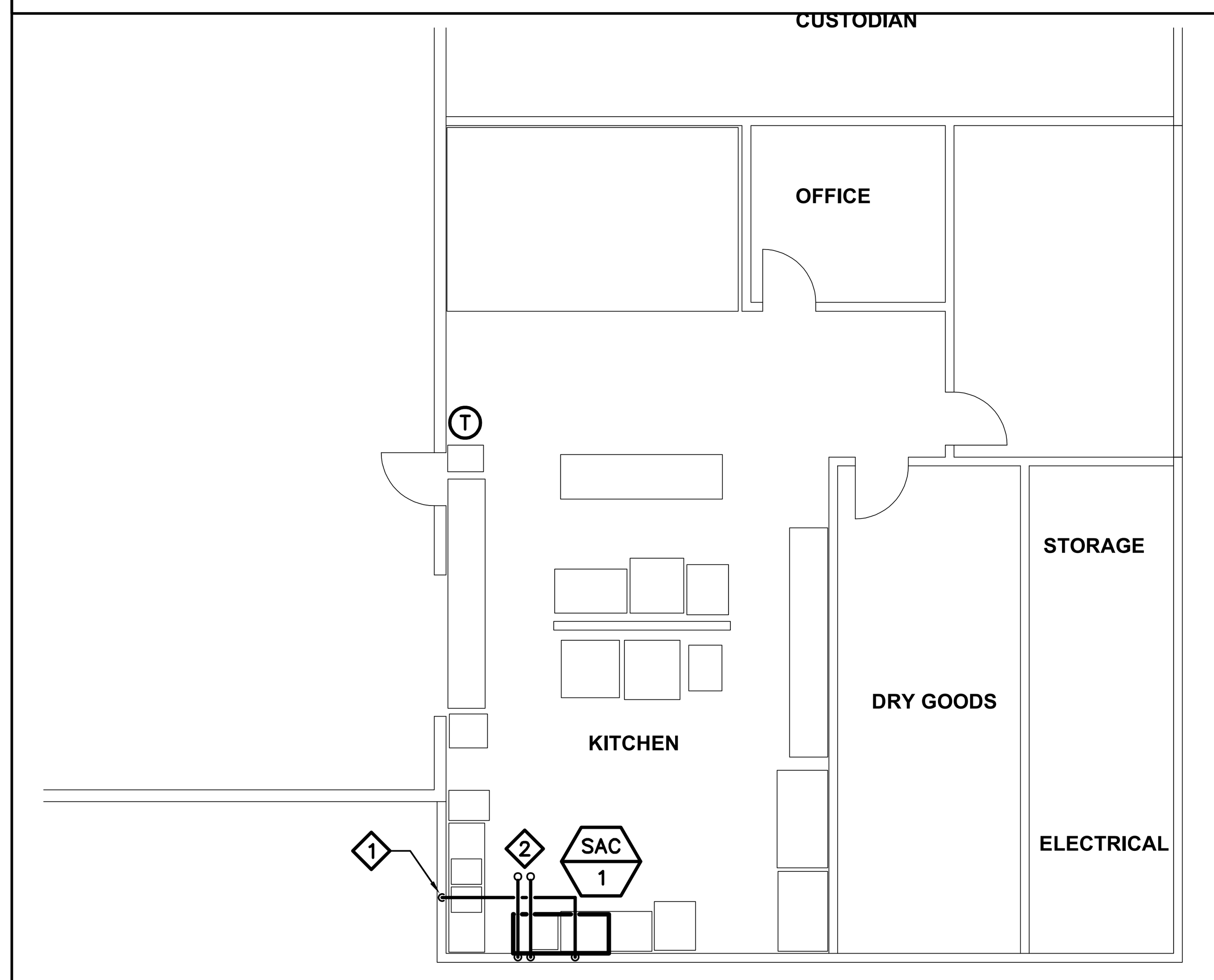
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE T-BAR CEILING AND DOWN THRU WALL. DISCHARGE INTO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

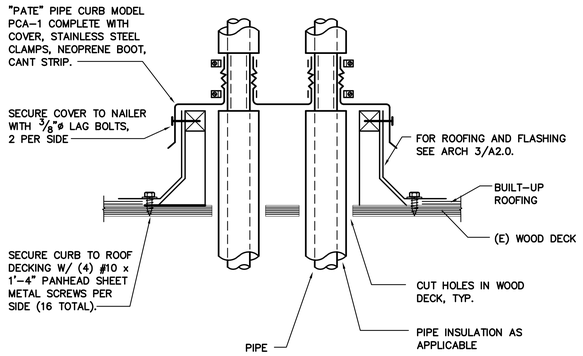
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

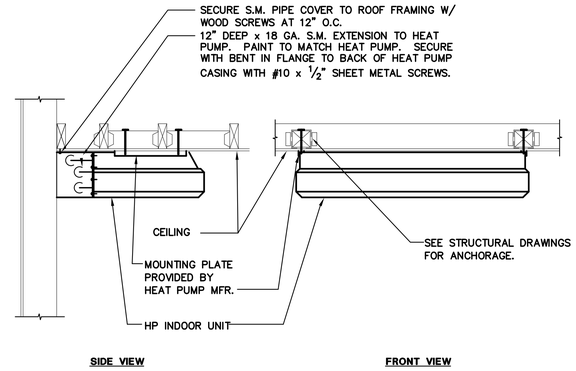
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

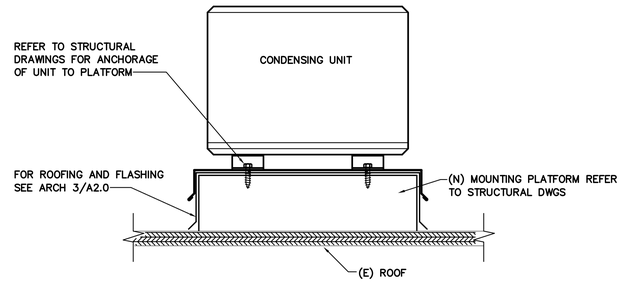
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

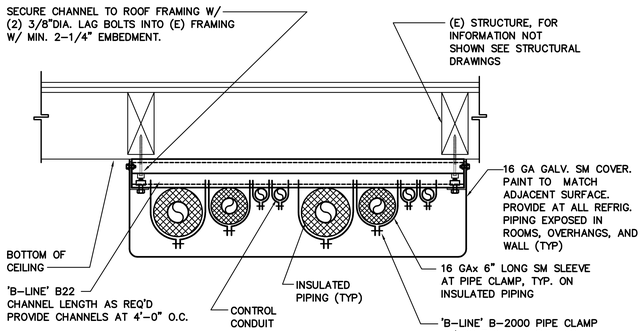
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KLIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

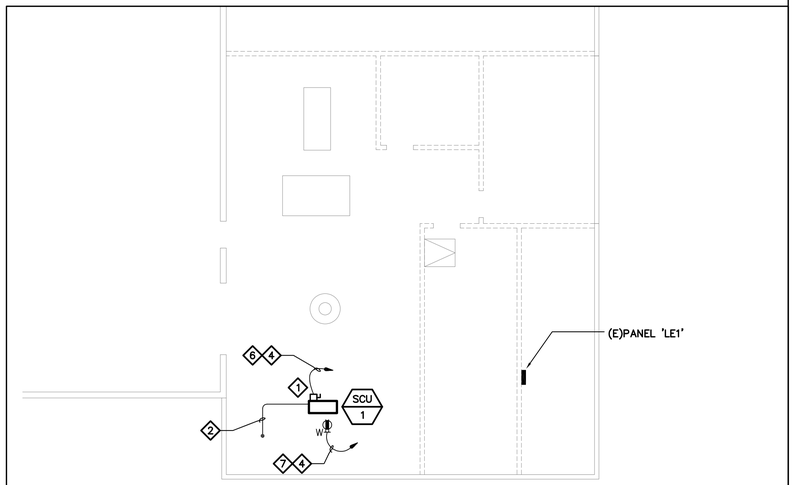
QC	
INI	%

SHEET NOTES:

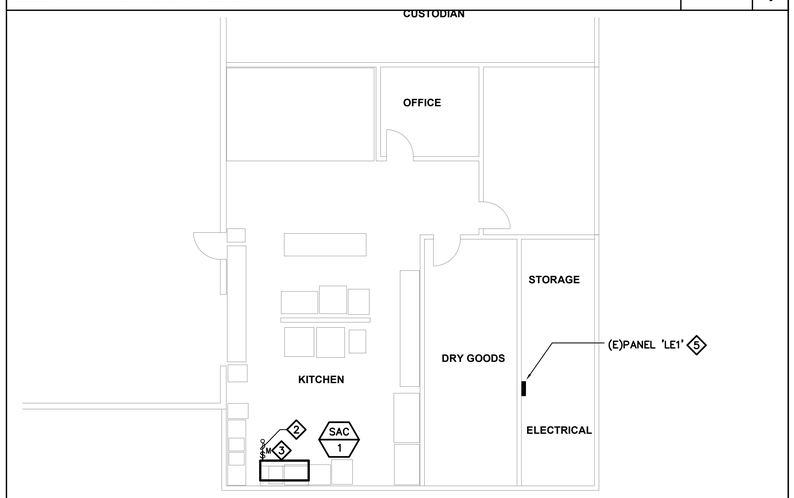
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'LE1'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

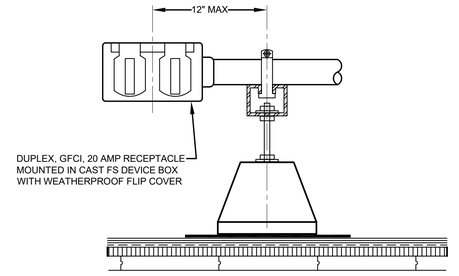
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%
---	---

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

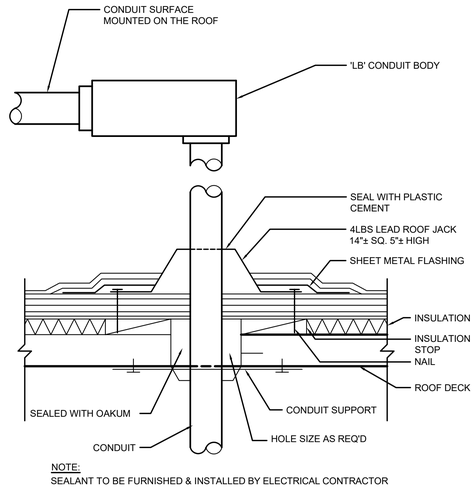


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Peyton E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

PITTMAN AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

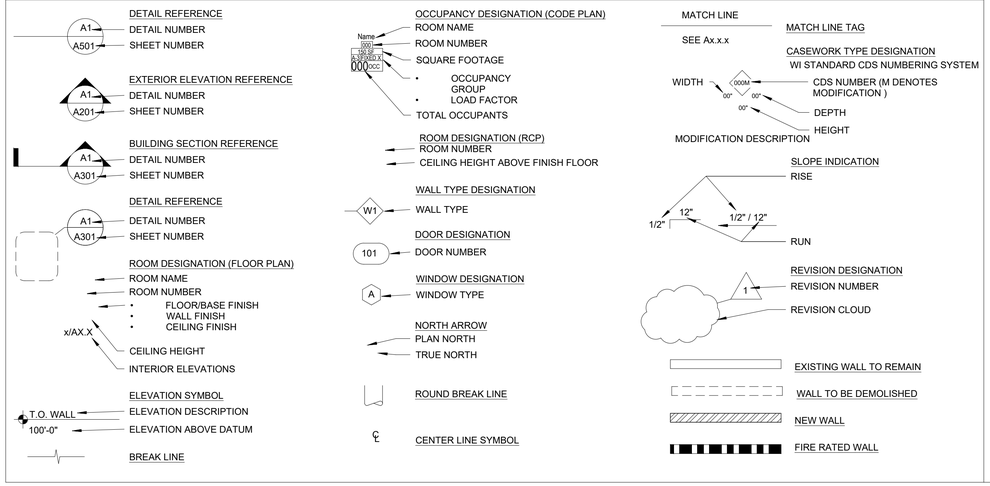
701 E. Park St., Stockton, CA 95202

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
PITTMAN E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

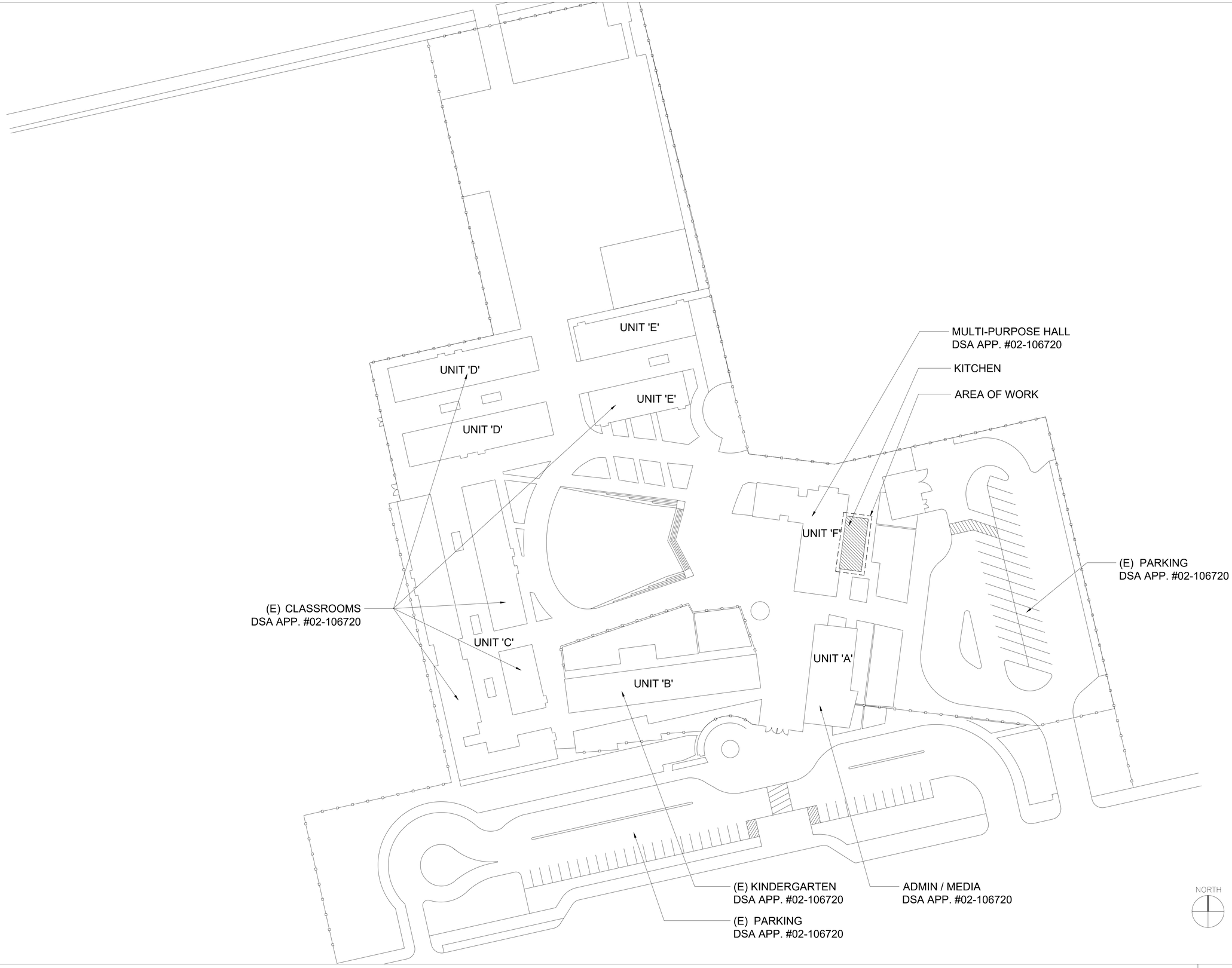
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
PITTMAN E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

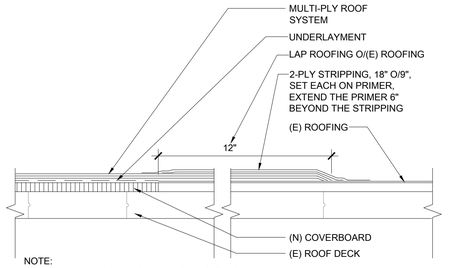
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0

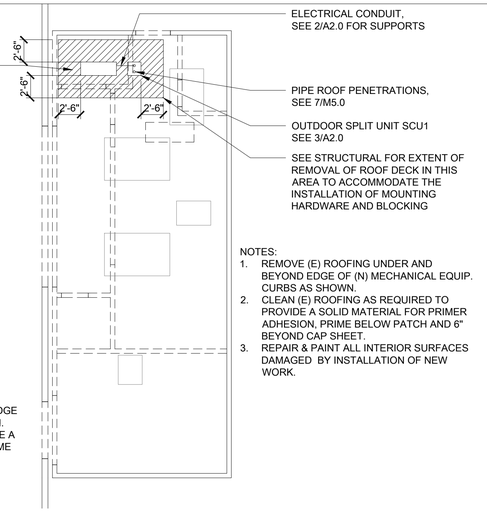


NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

3" = 1'-0" | 1

PATCH/REPAIR ROOFING WHERE (N) HVAC EQUIP. WILL BE INSTALLED, AREA (SHOWN HATCHED). ROOFING SYSTEM TO BE COLD PROCESS BUILT-UP ASPHALT ROOFING. SEE SPECIFICATION SECTION 075130 SEE DETAIL 1/A2.0 FOR TIE-IN OF (N) TO (E) ROOFING

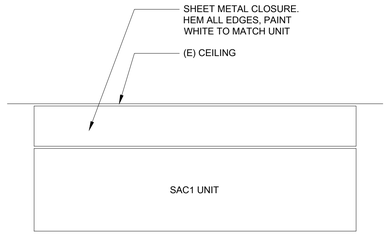


NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

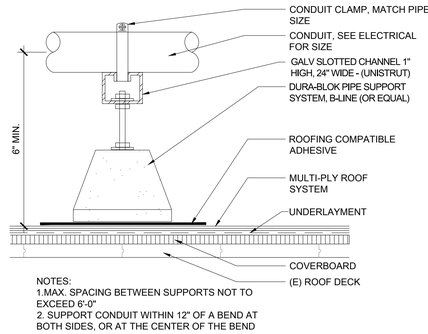
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

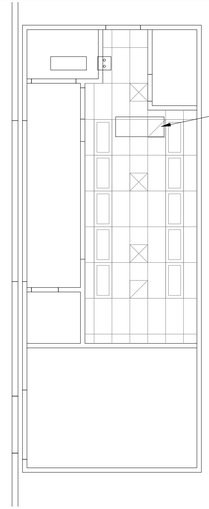
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

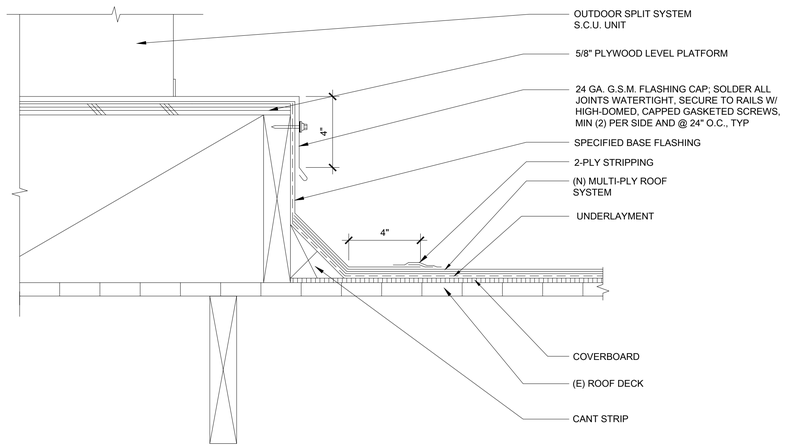
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

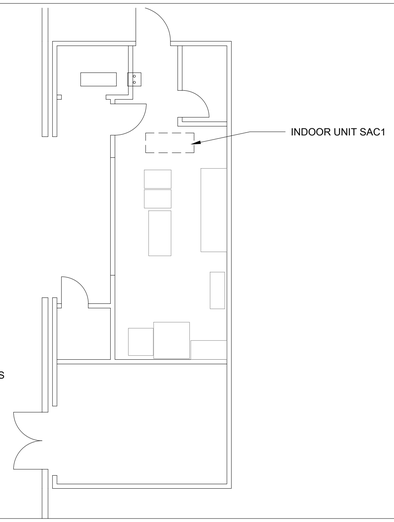
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
PITTMAN E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LON POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
BEV	BEVELED	LT WT	LIGHT WEIGHT
BOC	BOTTOM OF CONCRETE	LVL	LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	ONSG	OPEN WEB STEEL GIRDER
COL	COLUMN	ONSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT	PT	POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLON STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
		WWF	WELDED WIRE FABRIC
JT	JACK TRUSS	WPJ	WEAKENED PLANE JOINT

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:

DOUGLAS FIR- LARCH	WESTERN LUMBER GRADING RULES WWPA.
PLYWOOD	U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.

2. MINIMUM GRADES SHALL BE:

STRUCTURAL FRAMING	DF#1 TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
STRUCTURAL PLYWOOD (UNO)	ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.

3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .39"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.

2x & 3x MEMBERS	U HANGERS
4x MEMBERS	HU HANGERS
6x MEMBERS	HUTF HANGERS

12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▭ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .588

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE Fp= .29 Wp

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

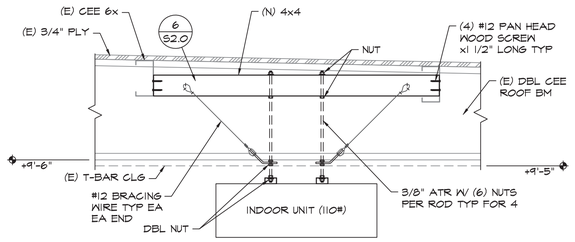
PROJECT #:
2023-031

REVISION #:

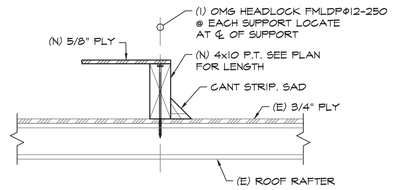
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

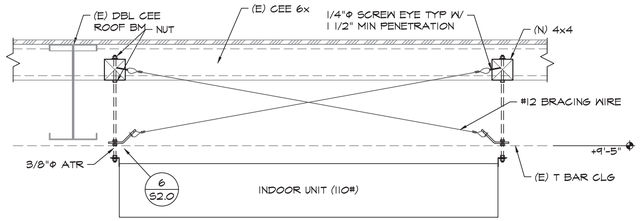
S1.0



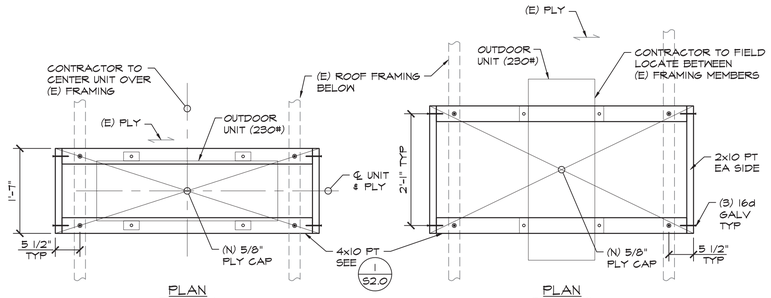
SUPPORT
DETAIL
4 52.0
1" = 1'-0" 022DET004_CEE



SLEEPER
DETAIL
1 52.0
1" = 1'-0" 022DET001_CEE

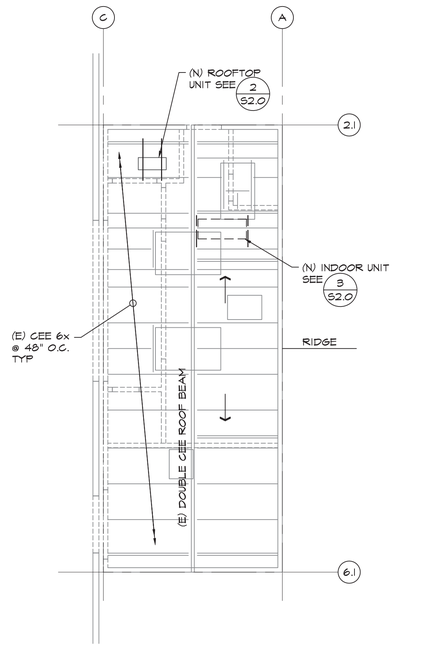


INDOOR UNIT
DETAIL
5 52.0
1" = 1'-0" 023DET001



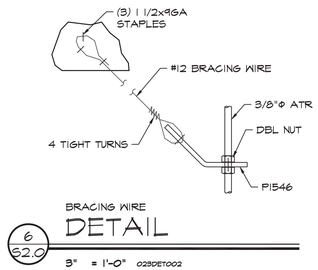
PLAN
FRAMING I

PLAN
FRAMING II

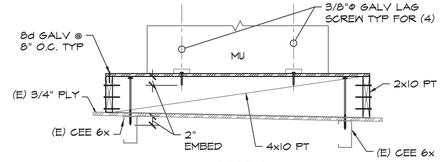


KITCHEN
ROOF FRAMING PLAN
A 52.0
1/8" = 1'-0"

N

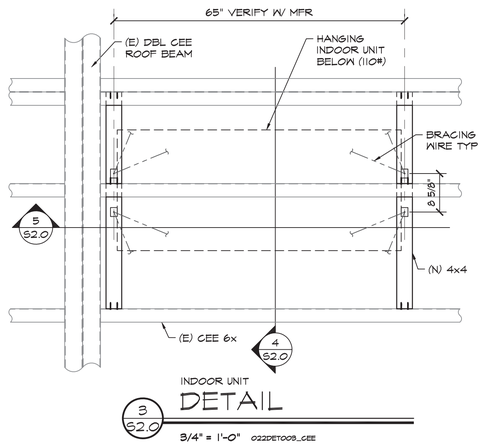


BRACING WIRE
DETAIL
6 52.0
3" = 1'-0" 023DET002



SECTION

OUTDOOR UNIT ANCHORAGE
DETAIL
2 52.0
3/4" = 1'-0" 022DET007_8x_D5



INDOOR UNIT
DETAIL
3 52.0
3/4" = 1'-0" 022DET003_CEE

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-031

REVISION #:

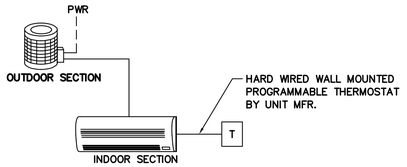
DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC

INI	%



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	1 2 3 4 5

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.		
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:**	**(Page 1 of 7)**
Project Address:	**Date Prepared:**	2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Address:	**Date Prepared:**	2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:**	**(Page 6 of 7)**
	Date Prepared:	2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

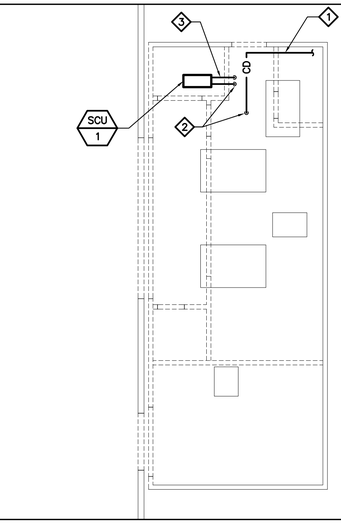
QC
INI | %

SHEET NOTES:

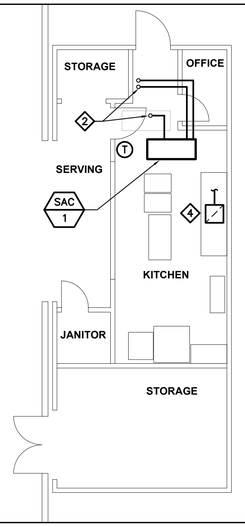
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CONDENSATE DRAIN PIPE ON ROOF, FOR MOUNTING DETAIL SEE 5/M5.0. DISCHARGE TO (E) ROOF DRAIN W/ MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT OR CONDENSATE DRAIN PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.
4. RELOCATE (E) RETURN GRILLE AWAY FROM (N) SAC LOCATION TO LOCATION SHOWN. EXTEND RETURN DUCT AS NEEDED TO NEW GRILLE USING SAME DUCT SIZE AS (E), APPROX. 14"ø. REBALANCE GRILLE TO ORIGINAL AIRFLOW.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KYLE DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 35498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

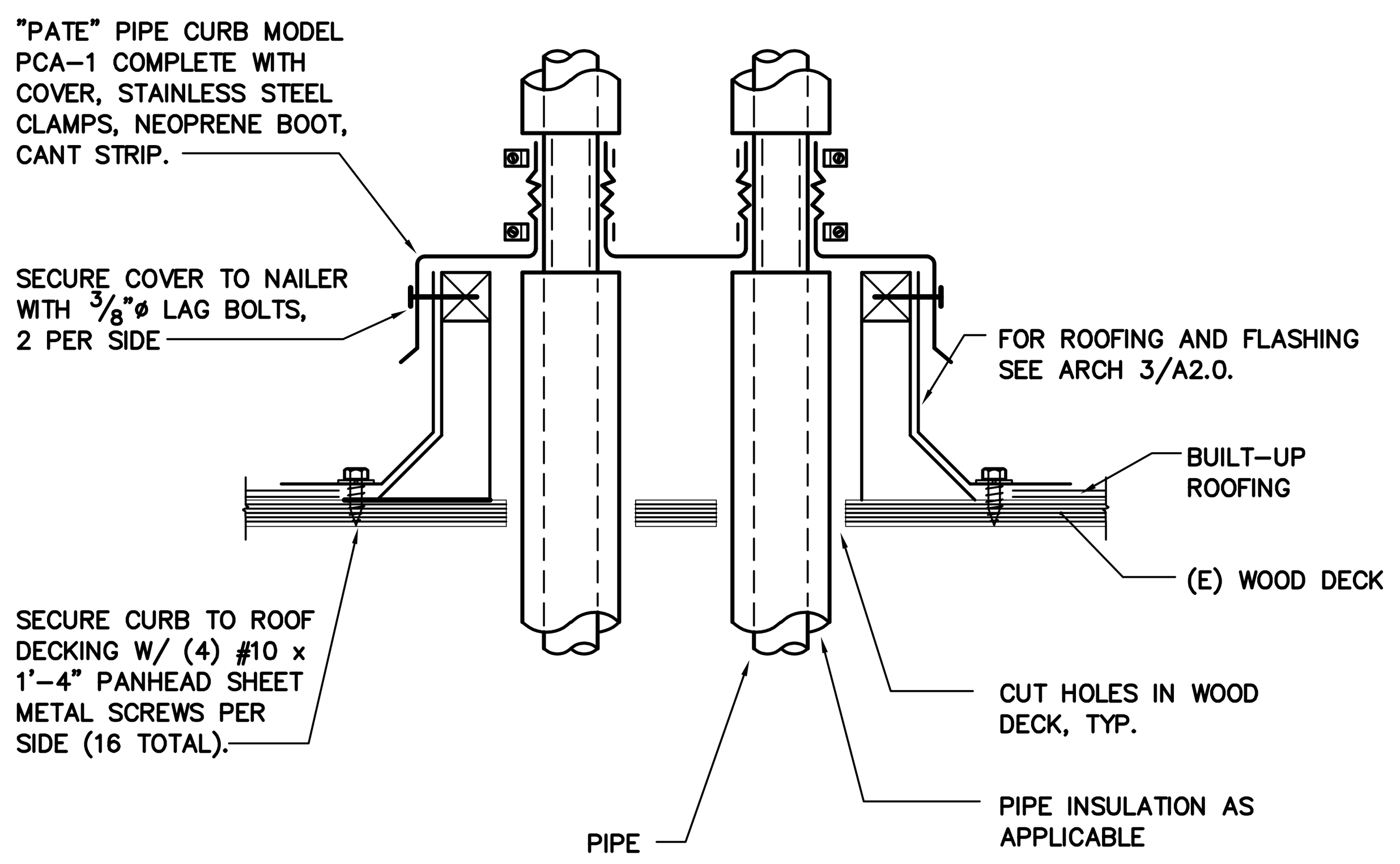
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

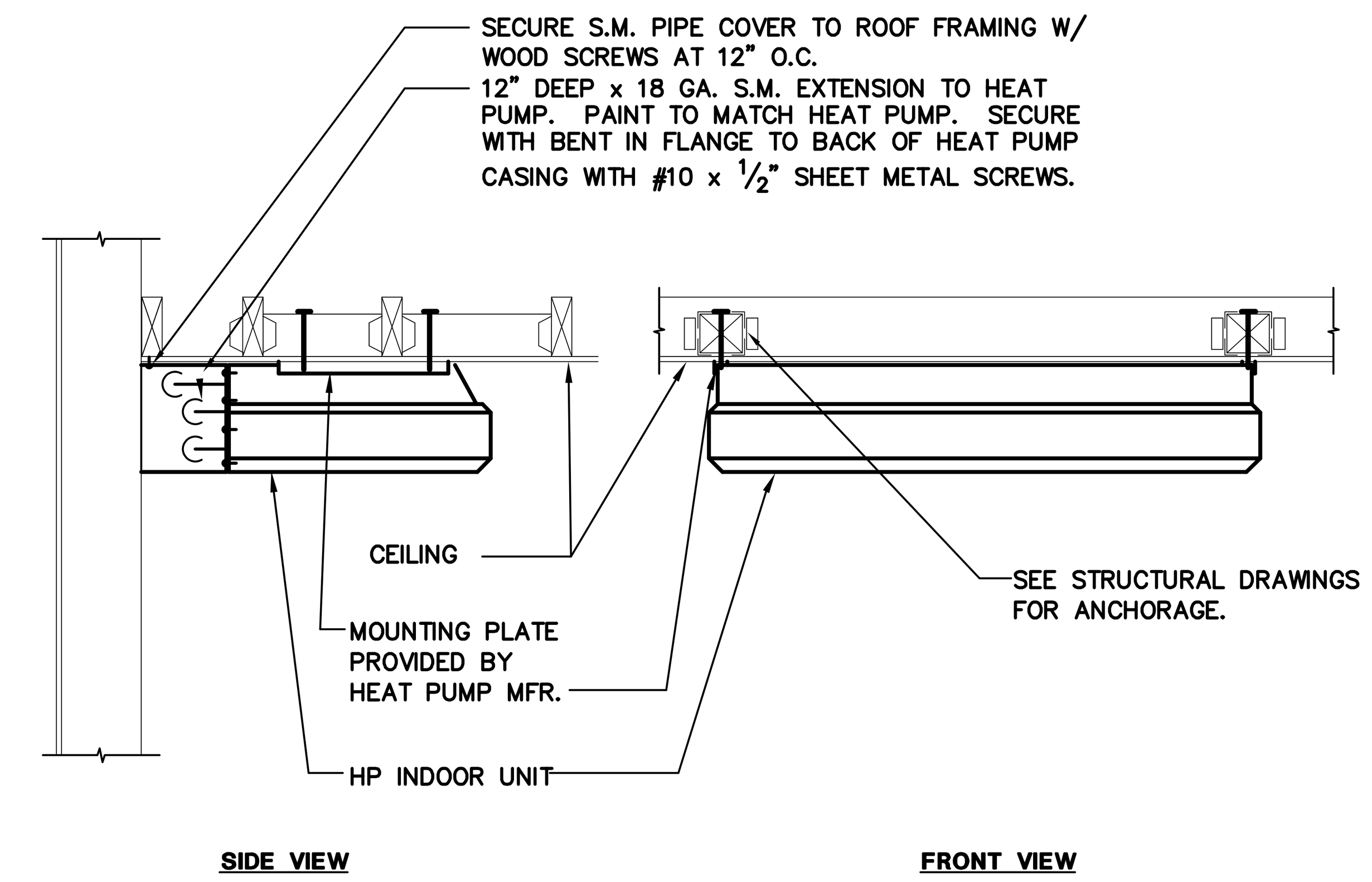
M2.0



PIPE THRU ROOF

7 / M5.0

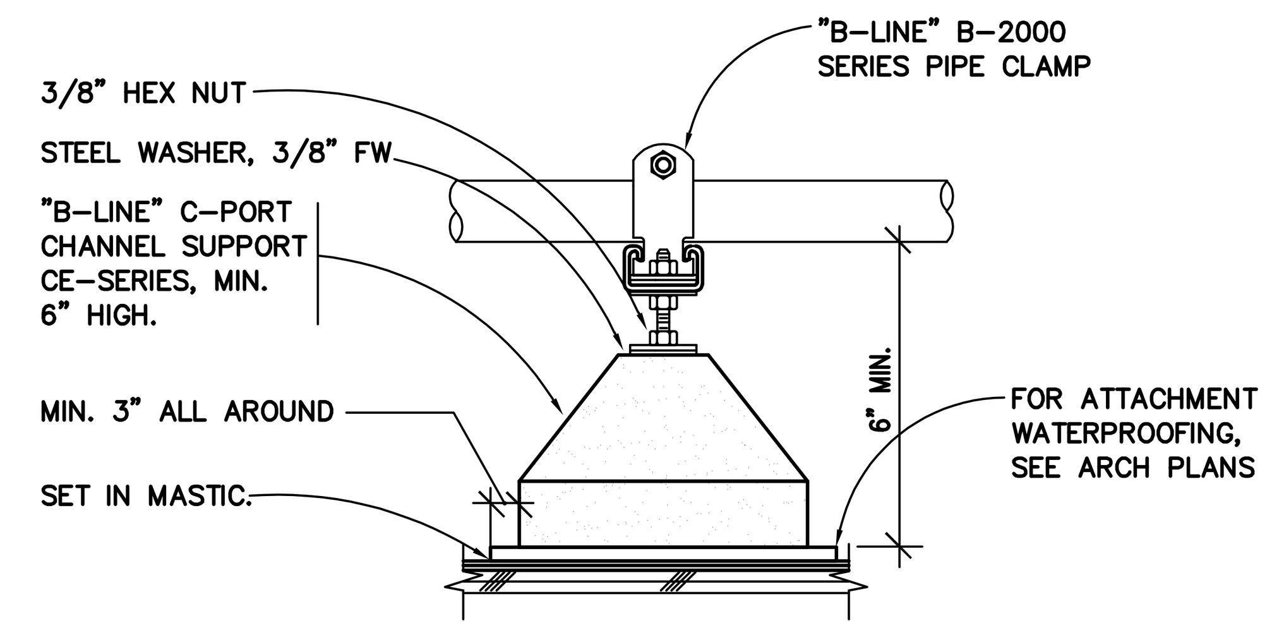
SCALE : NONE



HP INDOOR UNIT MOUNTING

1 / M5.0

SCALE : NONE



2022 CPC TABLE 1210.2.4.1 SUPPORT OF PIPING

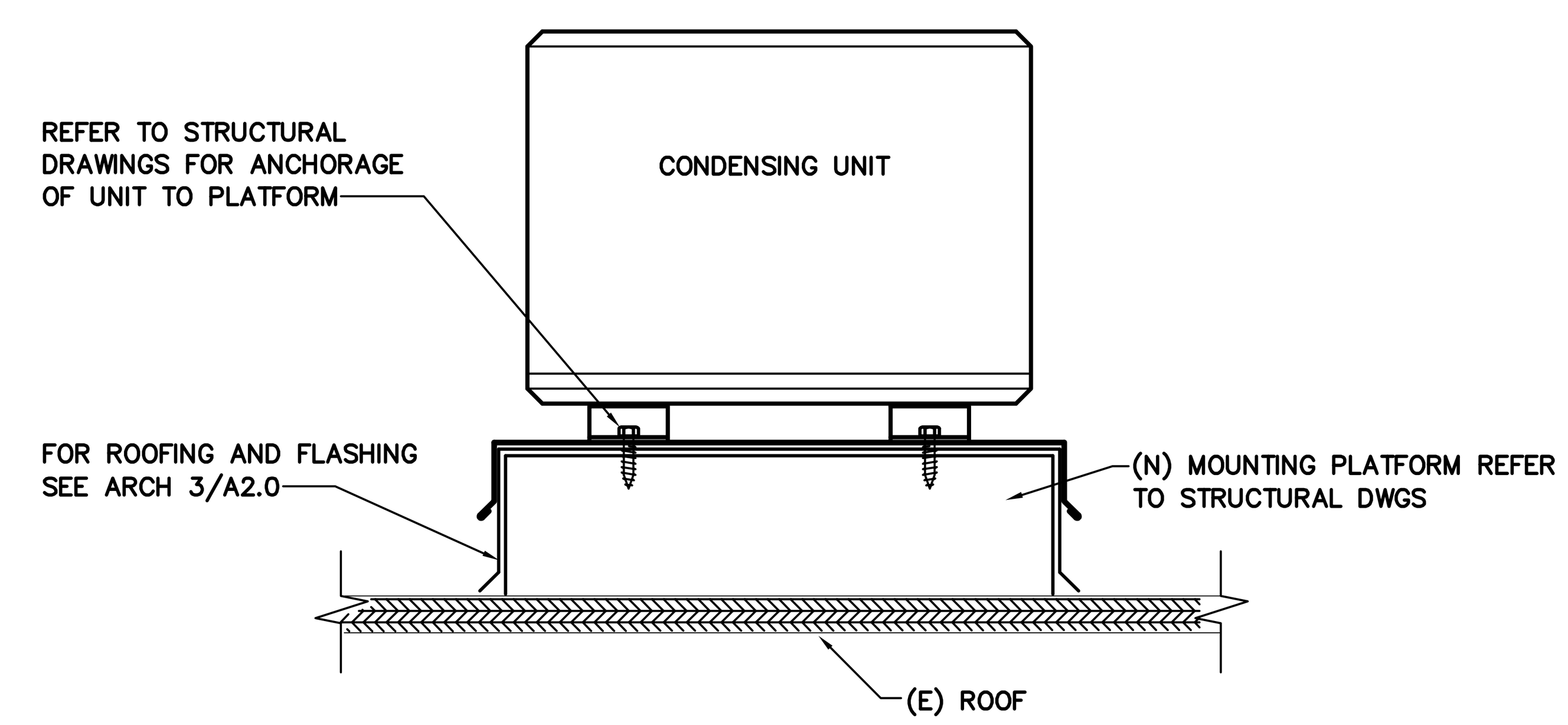
NFPA 54-7.2.5.1 TABLE 7.2.5.2 SUPPORT OF PIPING

STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	7/8 OR 1 (HORZ.)	8

CD MOUNTING ON ROOF

5 / M5.0

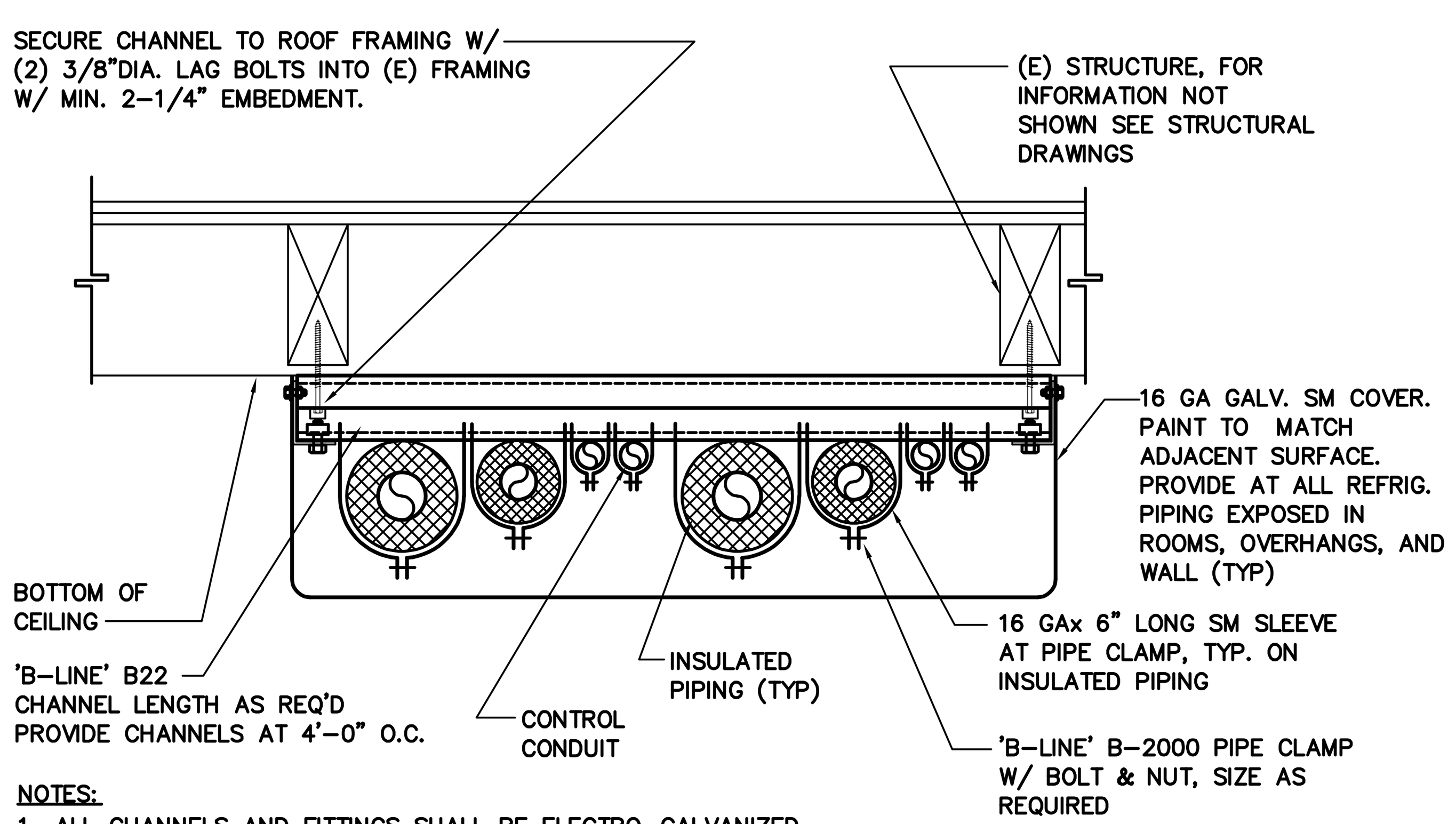
SCALE : NONE



HP OUTDOOR UNIT ON ROOF MOUNTING

2 / M5.0

SCALE : NONE



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

9 / M5.0

SCALE : NONE

QC	
INI	%

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KLIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

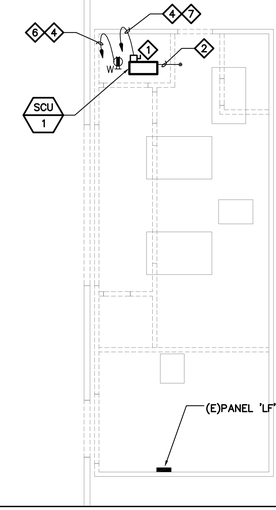
QC	
INI	%

SHEET NOTES:

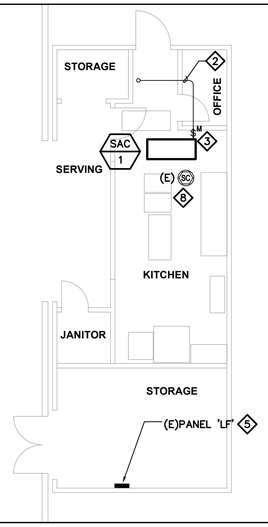
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'LF'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND
8. REMOVE AND RELOCATE (E) CEILING DETECTOR 36" AWAY FROM SUPPLY AIR. PROVIDE ALL NECESSARY CONDUIT AND WIRES.



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KEIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

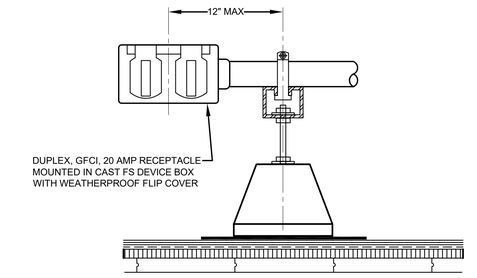
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

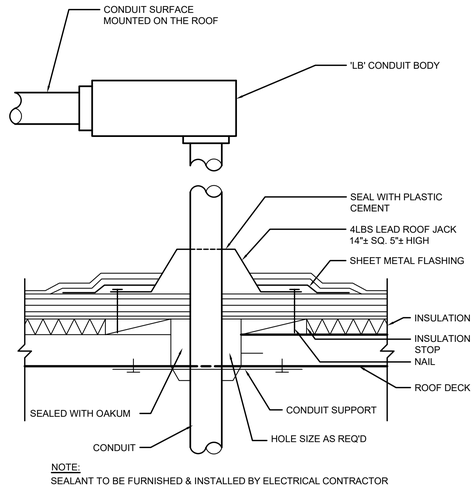


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KYLE DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Pittman E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

RIO CALAVERAS AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

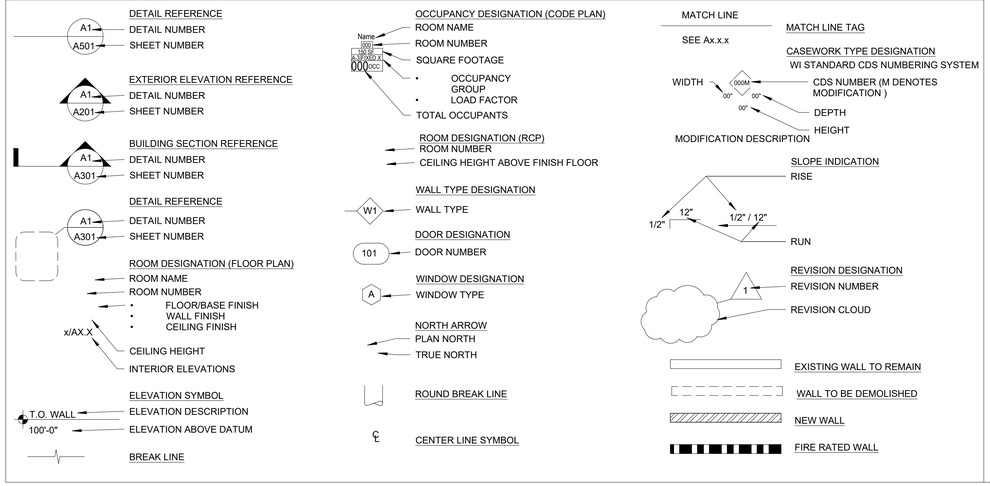
1819 Bianchi, Stockton, CA 95210

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
OFD	OVERFLOW DRAIN	UNO	UNLESS NOTED OTHERWISE
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND	**V**	
OPP	OPPOSITE	VCT	VINYL COMPOSITE TILE
ORIG	ORIGINAL	VERT	VERTICAL
		VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
RIO CALAVERAS E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

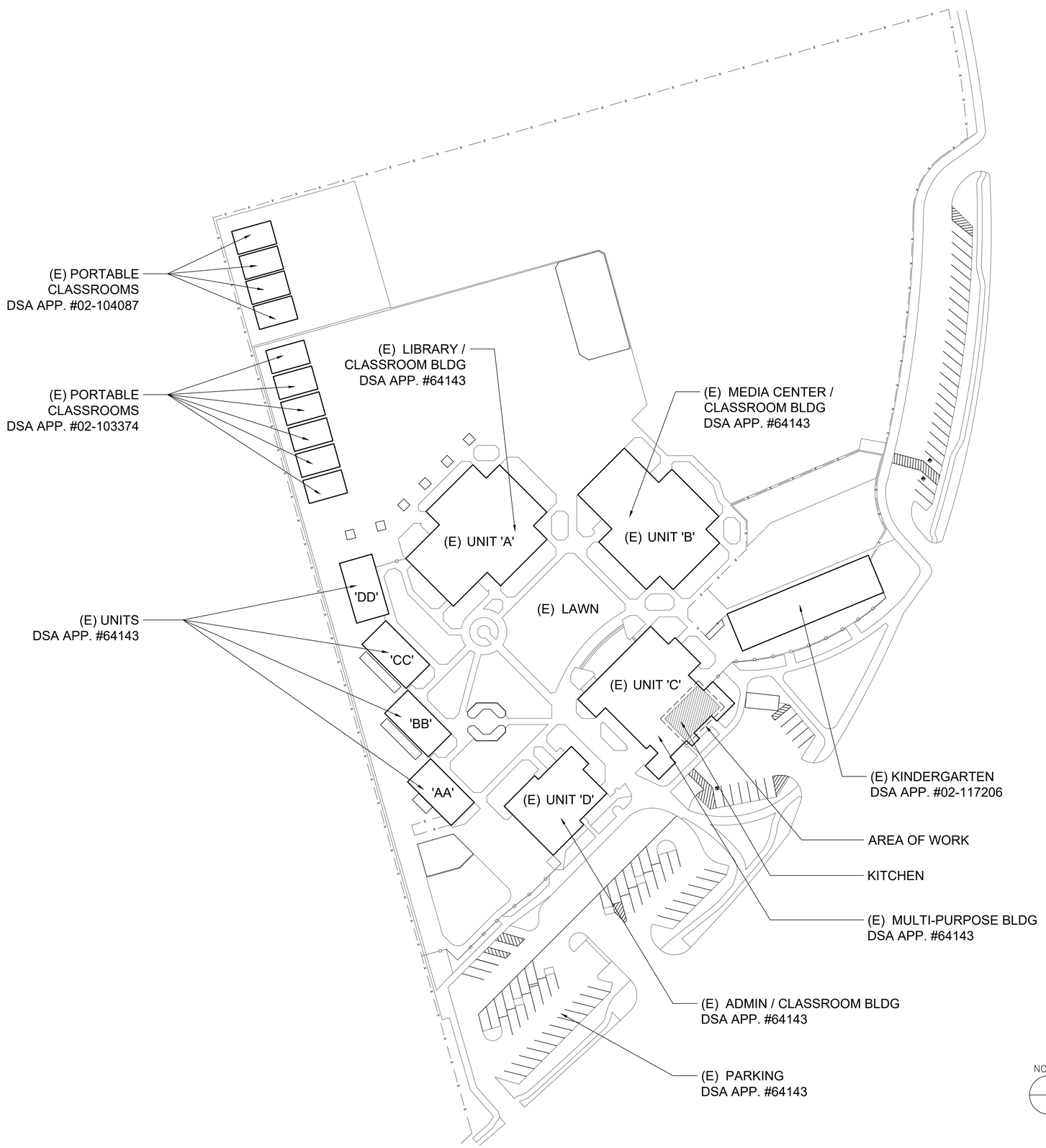
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 50'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

PROJECT TITLE:
RIO CALAVERAS E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

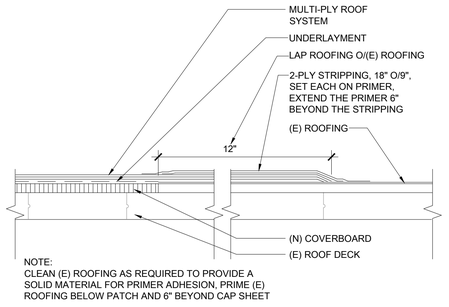
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0

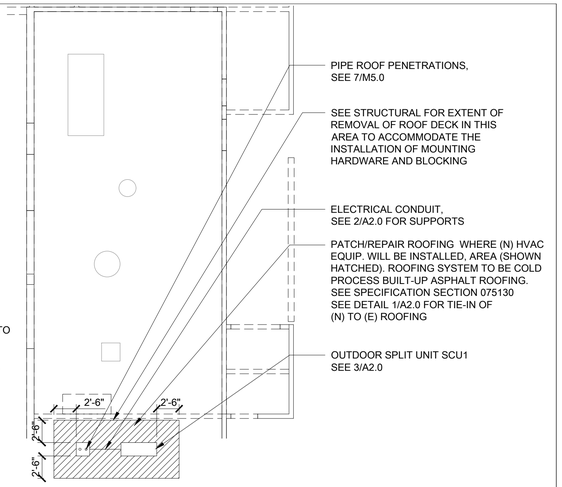


NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

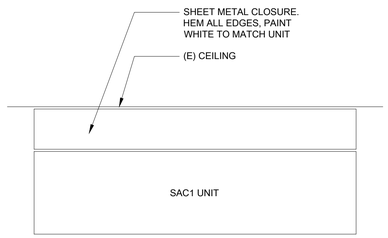
3" = 1'-0" | 1

NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.



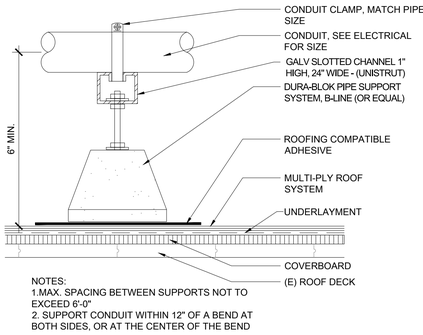
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

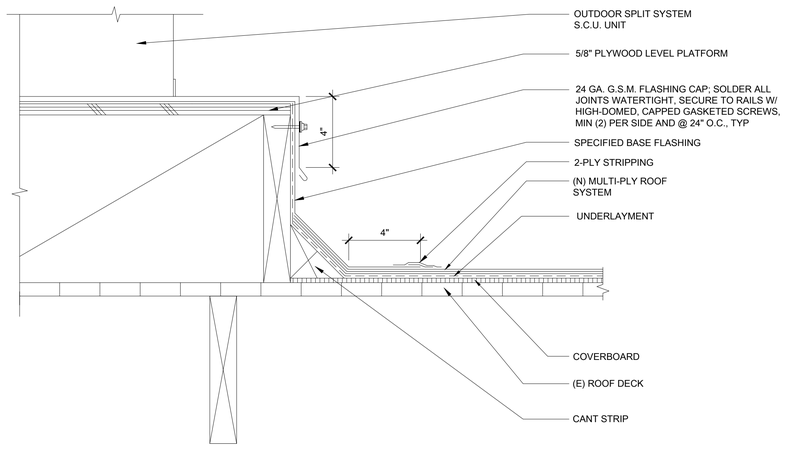
CONDUIT SUPPORT

3" = 1'-0" | 2

NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

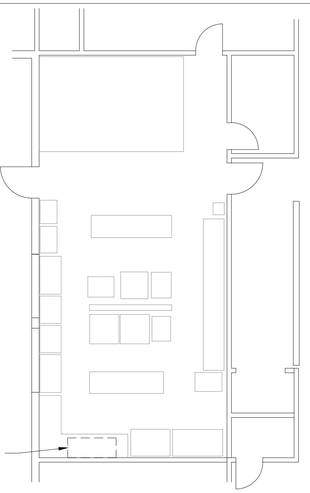
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
RIO CALAVERAS E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	ONSG	OPEN WEB STEEL GIRDER
COL	COLUMN	ONSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PRECAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING		
EF	EACH FACE	PSI	POUNDS PER SQUARE INCH
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD		
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
			TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

PREFABRICATED WOOD FRAMING MEMBERS

(SHOP DRAWINGS TO BE SUBMITTED PRIOR TO FABRICATION)

1. PREFABRICATED MEMBERS IDENTIFIED HEREIN ARE BASED ON PRODUCTS MANUFACTURED FOR "RedBuilt LLC" AND SHALL BE USED AS THE MINIMUM REQUIREMENT. SUBSTITUTIONS OF ALTERNATE PRODUCTS SHALL HAVE EQUAL OR GREATER PROPERTIES AND CAPACITIES AND MUST HAVE ALL APPROPRIATE APPROVALS.
2. MEMBERS INDICATED AS "I JOIST" SHALL CONSIST OF LVL (LAMINATED VENEER LUMBER) TOP AND BOTTOM CHORDS AND OSB (ORIENTED STRAND BOARD) WEBS IN CONFORMANCE WITH ICC ES ESR -2994 DEPTH AND SERIES AS INDICATED ON PLANS.
3. MEMBERS INDICATED AS "LVL", "LSL", OR "PSL" SHALL MEET MINIMUM PROPERTIES AS SET OUT BELOW:

LVL:	LSL:	PSL:
E = 2.0E6 PSI	E = 1.55E6 PSI	E = 2.0E6 PSI
Fb = 2600 PSI	Fb = 2325 PSI	Fb = 2900 PSI
Fv = 285 PSI	Fv = 525 PSI	Fv = 290 PSI

4. I JOIST BLOCKING TO BE OF SAME MATERIAL AS I JOISTS, UNO.
5. WEB STIFFENERS REQUIRED AT ALL END SUPPORTS, HANGERS AND INTERMEDIATE SUPPORTS.
6. FULL DEPTH I JOIST BLOCKING OR BRIDGING REQUIRED FOR ALL ROOF RAFTERS AT 10'-0" O.C. AND ALL FLOOR JOISTS AT 8'-0" O.C. FOR RAFTER OR JOIST SPAN OF 16'-0" OR MORE.
7. FULL DEPTH BLOCKING REQUIRED BETWEEN RAFTERS OR JOISTS AT ALL SUPPORTS.
8. DOUBLE ALL JOISTS UNDER AND PARALLEL TO PARTITION WALLS.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL
   - MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .39"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
    - I JOIST MEMBERS — BA HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▨ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
t' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < t' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ☐ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .576

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE F_p= .029 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-032

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

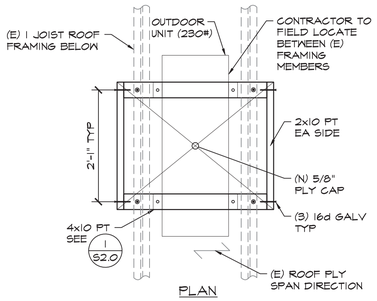
S1.0

5 S2.0 NOT USED

= 1'-0"

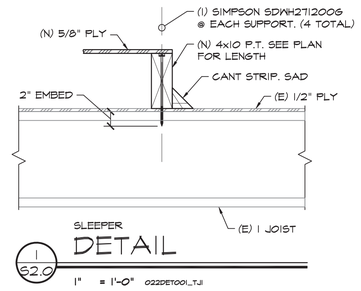
6 S2.0 NOT USED

= 1'-0"



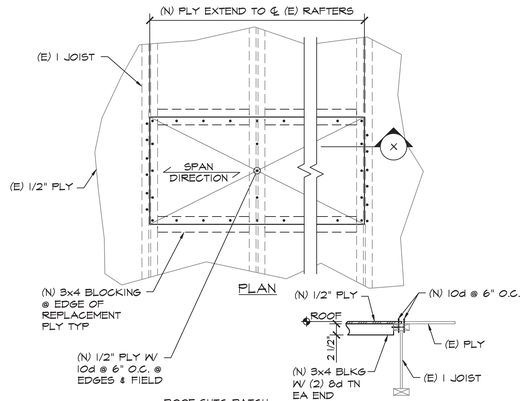
OUTDOOR UNIT ANCHORAGE
7 S2.0 DETAIL

3/4" = 1'-0" 022DET007_TJI



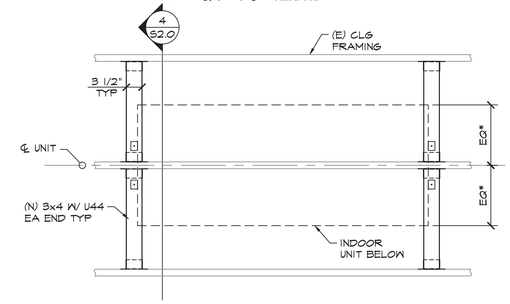
SLEEPER
1 S2.0 DETAIL

1" = 1'-0" 022DET001_TJI



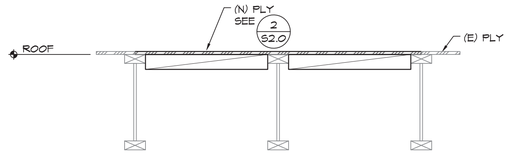
ROOF SHTG PATCH
2 S2.0 DETAIL

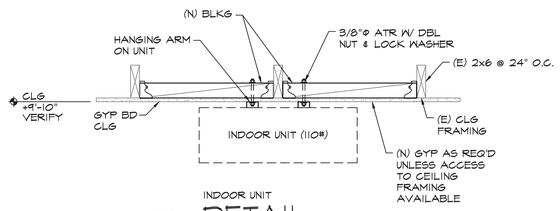
3/4" = 1'-0" 022DET002



INDOOR UNIT
3 S2.0 DETAIL

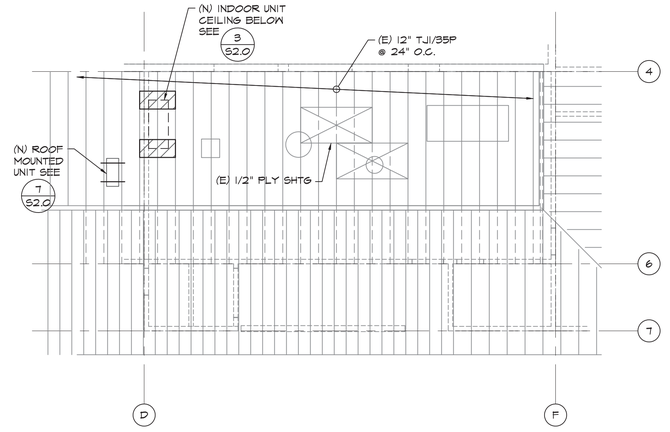
3/4" = 1'-0" 022DET003_TJI





INDOOR UNIT
4 S2.0 DETAIL

1" = 1'-0" 022DET004_TJI



LEGEND

APPROXIMATE EXTENT OF REMOVED PLY SEE 2 S2.0

KITCHEN
A S2.0 ROOF FRAMING PLAN

1/8" = 1'-0"

N

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-032

REVISION #:

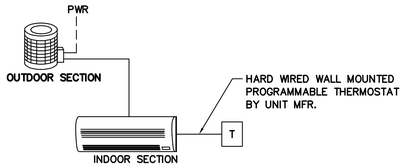
DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC

INI	%



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

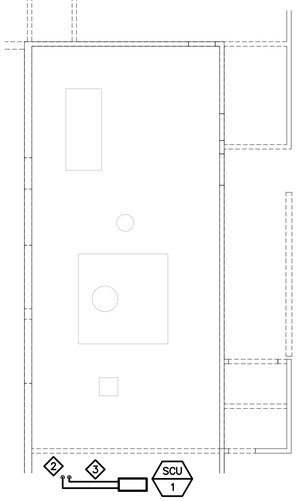
QC	
INI	%

SHEET NOTES:

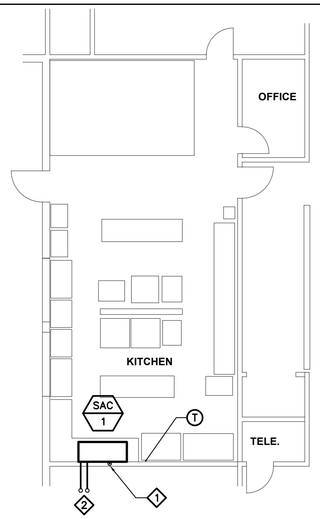
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED DOWN THRU WALL. DISCHARGE INTO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

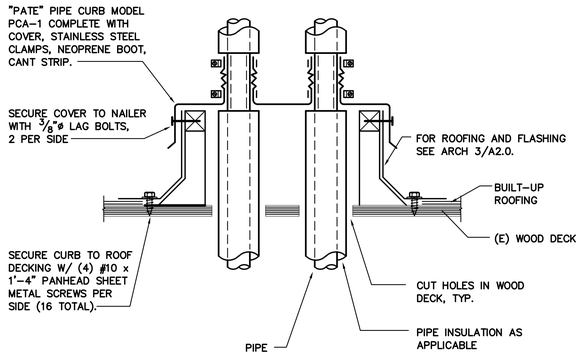
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

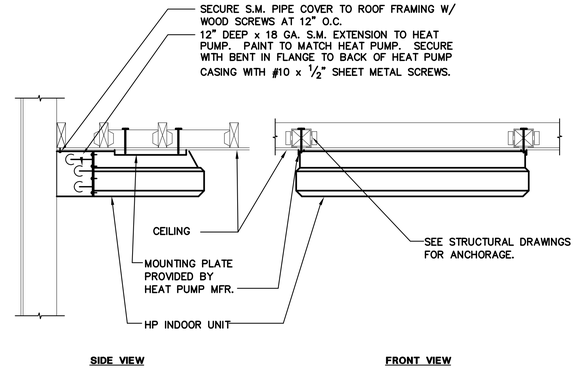
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

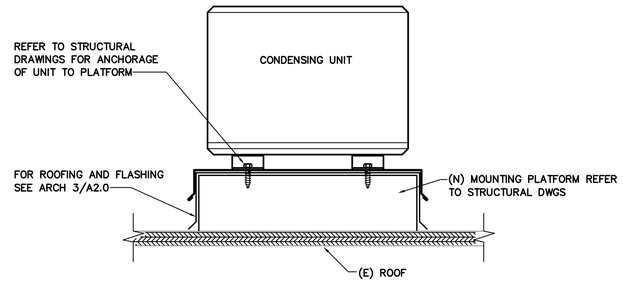
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

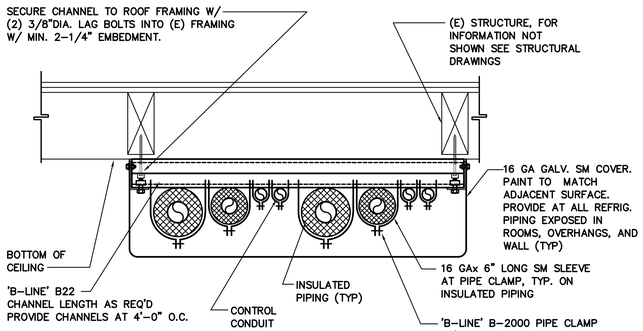
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X / LOCATION / 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 / B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
J	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Rio Calaveras E.S. Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

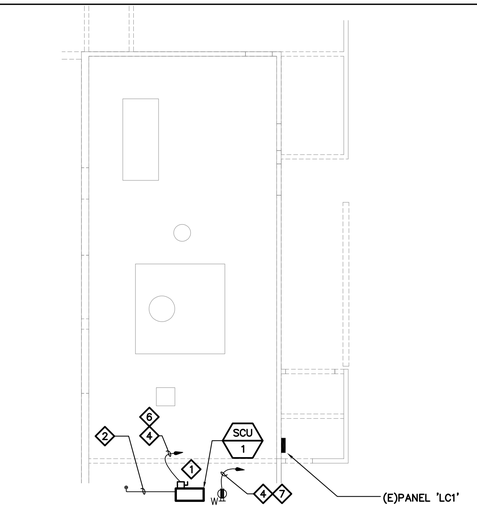
QC	
INI	%

SHEET NOTES:

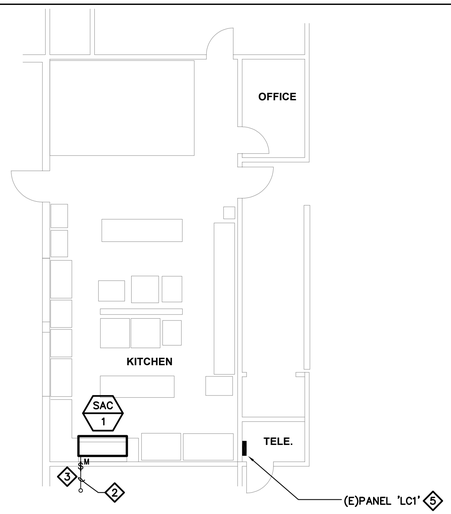
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'LC1'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

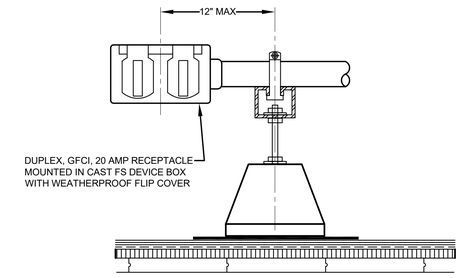
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

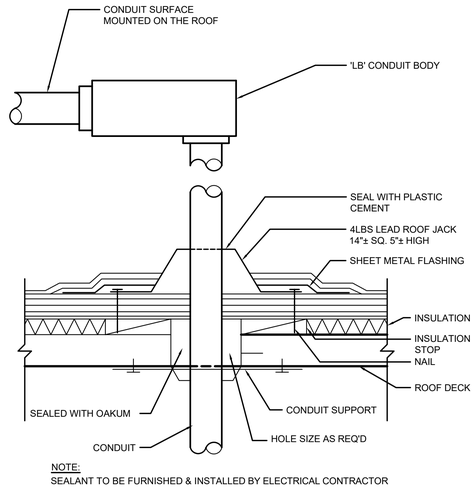


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Rio Calaveras E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

ROOSEVELT AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

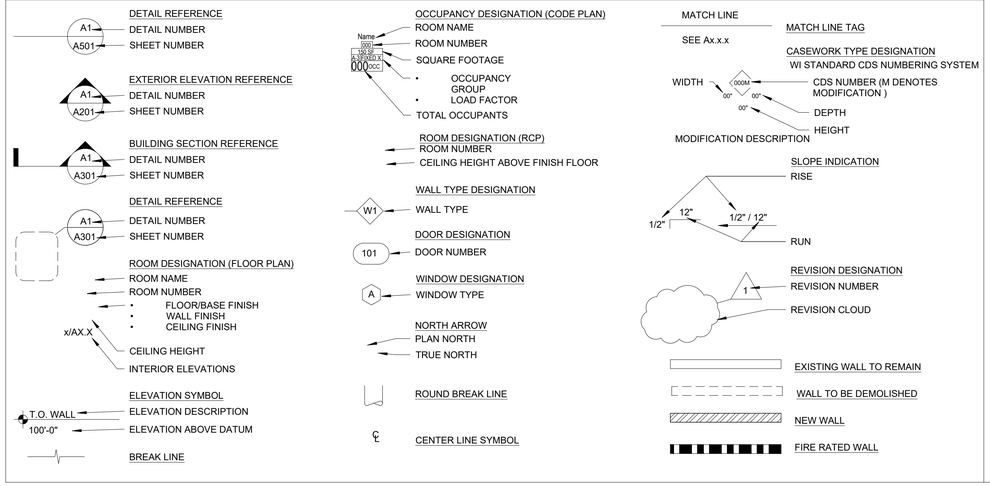
776 S. Broadway, Stockton, CA 95205

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	**I**	
EL	ELEVATION	ID	INSIDE DIAMETER; INSIDE DIMENSION
ELEC	ELECTRICAL	IN	INCH
ELEV	ELEVATOR	INFO	INFORMATION
EOS	EDGE OF SLAB	INT	INTERIOR
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
OFD	OVERFLOW DRAIN	UNO	UNLESS NOTED OTHERWISE
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND	**V**	
OPP	OPPOSITE	VCT	VINYL COMPOSITE TILE
ORIG	ORIGINAL	VERT	VERTICAL
		VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
ROOSEVELT E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

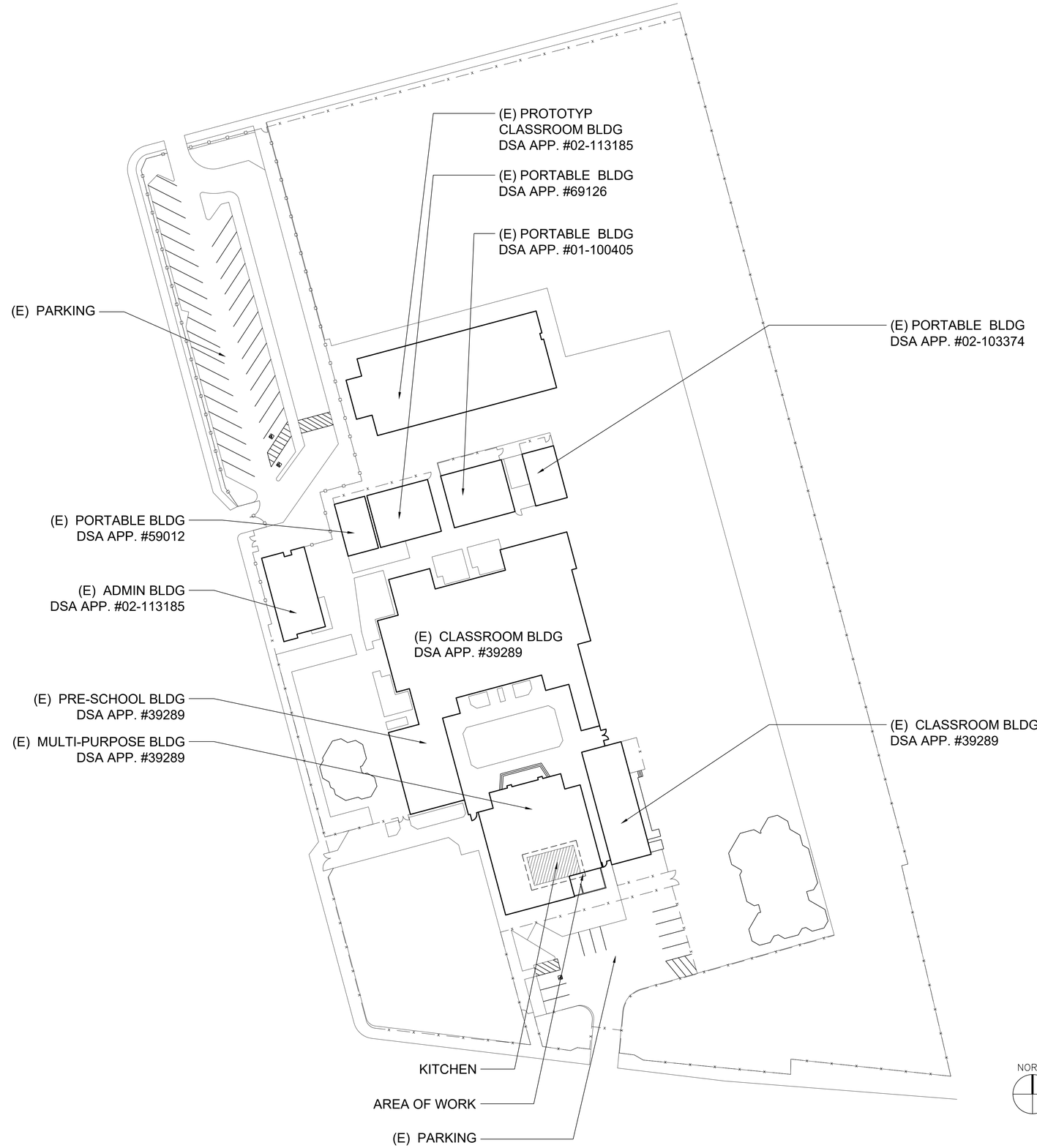
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
ROOSEVELT E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

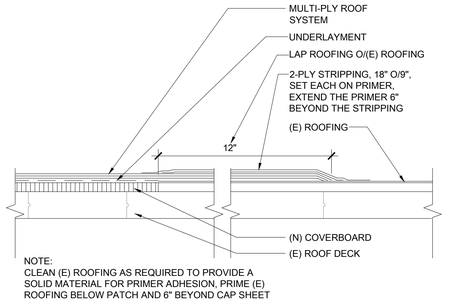
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

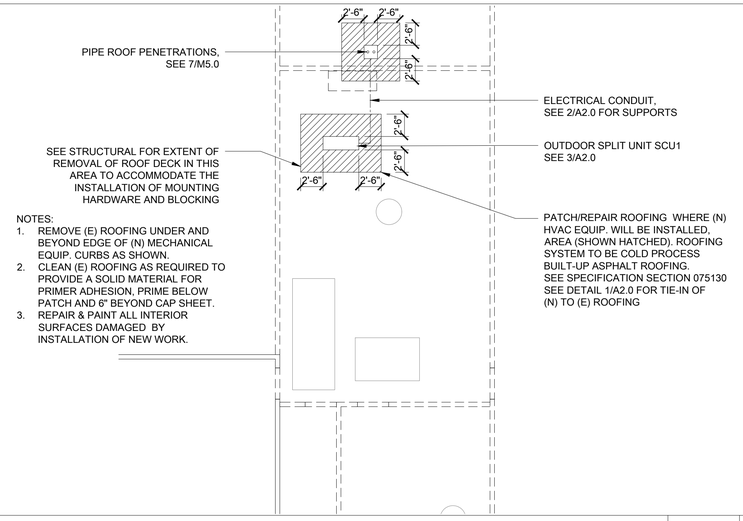
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

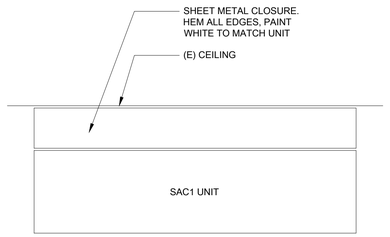
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

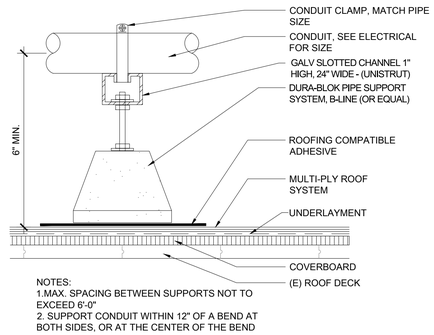
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

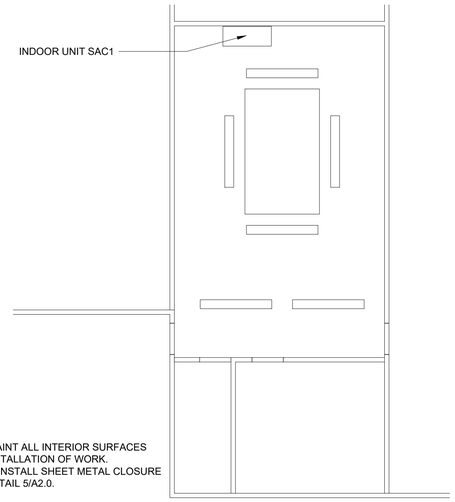
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

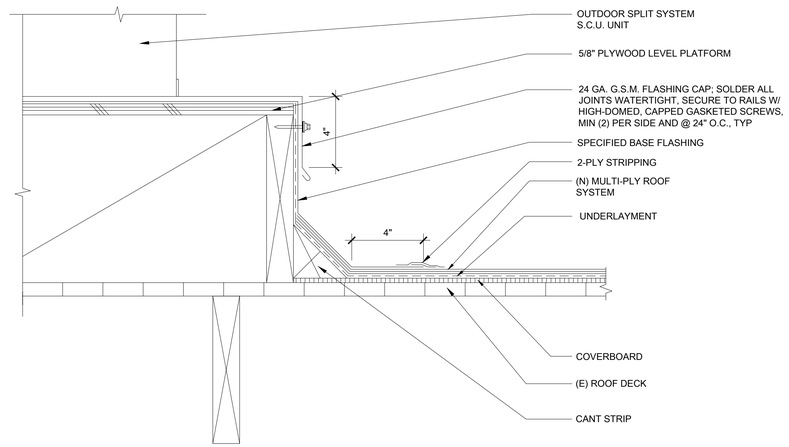
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

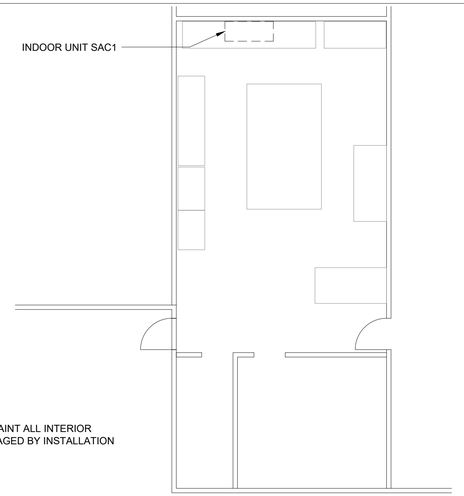
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
ROOSEVELT E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT
AB	ANCHOR BOLTS
AC	ASPHALTIC CONCRETE
AFF	ABOVE FINISH FLOOR
BN	BOUNDARY NAILING
BEV	BEVELED
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DF	DOUGLAS FIR
(E)	EXISTING
EF	EACH FACE
EW	EACH WAY
EJ	EXPANSION JOINT
EOS	EDGE OF SLAB
EN	EDGE NAILING
ES	EACH SIDE
FA	FRAMING ANCHOR
FD	FLOOR DRAIN
FF	FINISH FLOOR
FLG	FLANGE
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
GLB	GLUE LAMINATED BEAM
GSM	GALVANIZED SHEET METAL
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HDG	HOT DIPPED GALVANIZED
HP	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
ID	INSIDE DIAMETER
JT	JACK TRUSS
LFRS	LATERAL FORCE RESISTING SYTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LS	LAG SCREW
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MU	MECHANICAL UNIT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NSG	NON SHRINK GROUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
OWSG	OPEN WEB STEEL GIRDER
OWSJ	OPEN WEB STEEL JOIST
OH	OPPOSITE HAND
PCC	PRECAST CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED POINT
PW	PLYWOOD
R	RADIUS
SAD	SEE ARCHITECTURAL DRAWINGS
SDST	SELF DRILLING SELF TAPPING
SIM	SIMILAR
SCJ	SLIP CONTROL JOINT
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SS	STAINLESS STEEL
T24	TITLE 24 CALIFORNIA CODE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOF	TOP OF FRAMING
TOM	TOP OF MASONRY
T.O. SLAB	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
WS	WATER STOP
WWF	WELDED WIRE FABRIC
WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES, IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .574

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p= .029 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

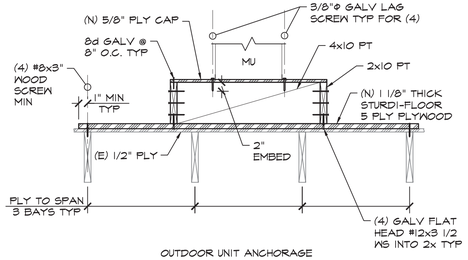
PROJECT #:
2023-028

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

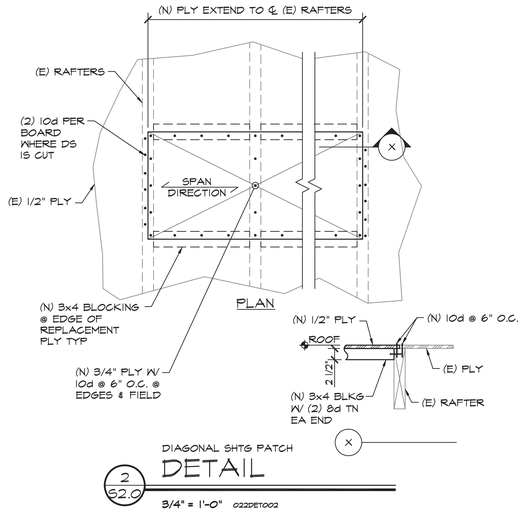
S1.0



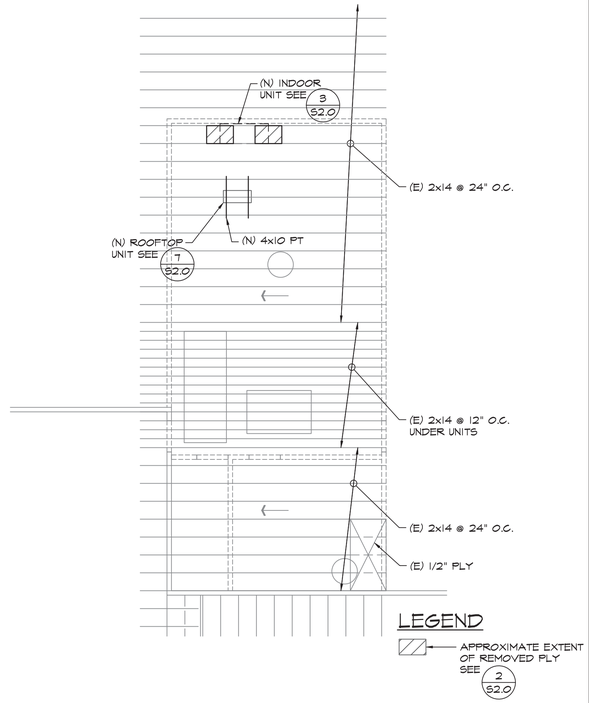
OUTDOOR UNIT ANCHORAGE
SECTION (2x FRAMING)
8 / S2.0
3/4" = 1'-0" 022DET006

5 / S2.0 NOT USED
= 1'-0"

1 / S2.0 NOT USED
= 1'-0"

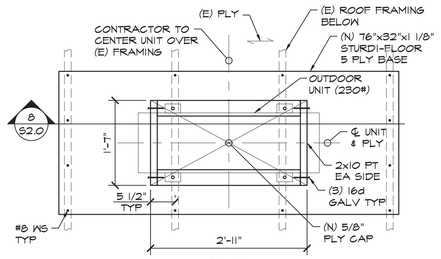


DIAGONAL SHTG PATCH
2 / S2.0 DETAIL
3/4" = 1'-0" 022DET002

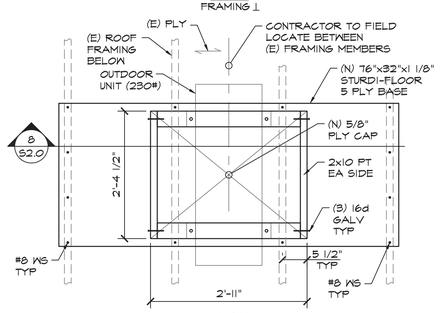


KITCHEN
A / S2.0 ROOF FRAMING PLAN
1/8" = 1'-0"

6 / S2.0 NOT USED
= 1'-0"

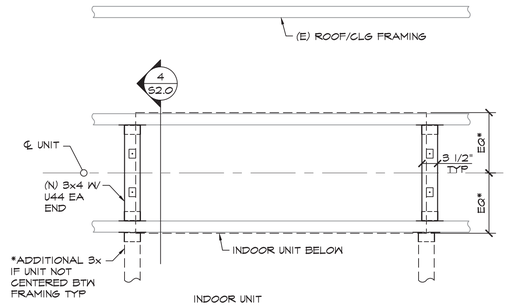


PLAN
FRAMING I

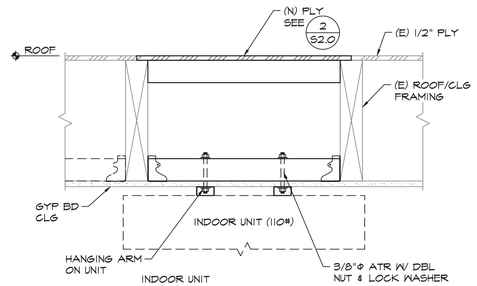


PLAN
FRAMING II

OUTDOOR UNIT ANCHORAGE
7 / S2.0 DETAIL (2x FRAMING)
3/4" = 1'-0" 022DET007_3x_D5



INDOOR UNIT
3 / S2.0 DETAIL
3/4" = 1'-0" 022DET003



INDOOR UNIT
4 / S2.0 DETAIL
1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-028

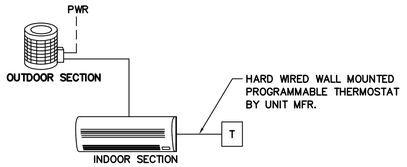
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

1 / M0.1

SCALE : NONE

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
ƒ	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND		AND	Yes	AND		AND		AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

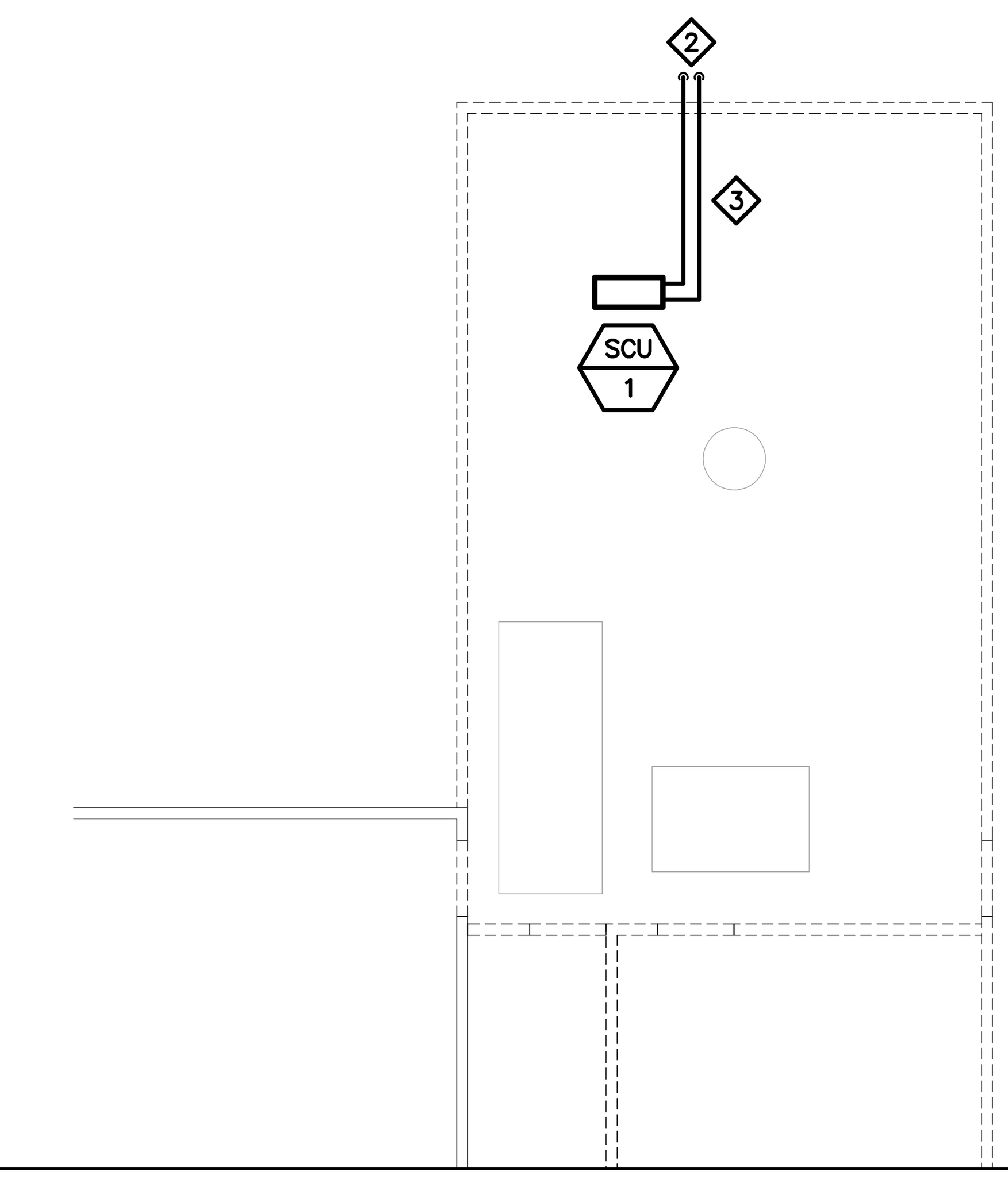
M0.2

SHEET NOTES:

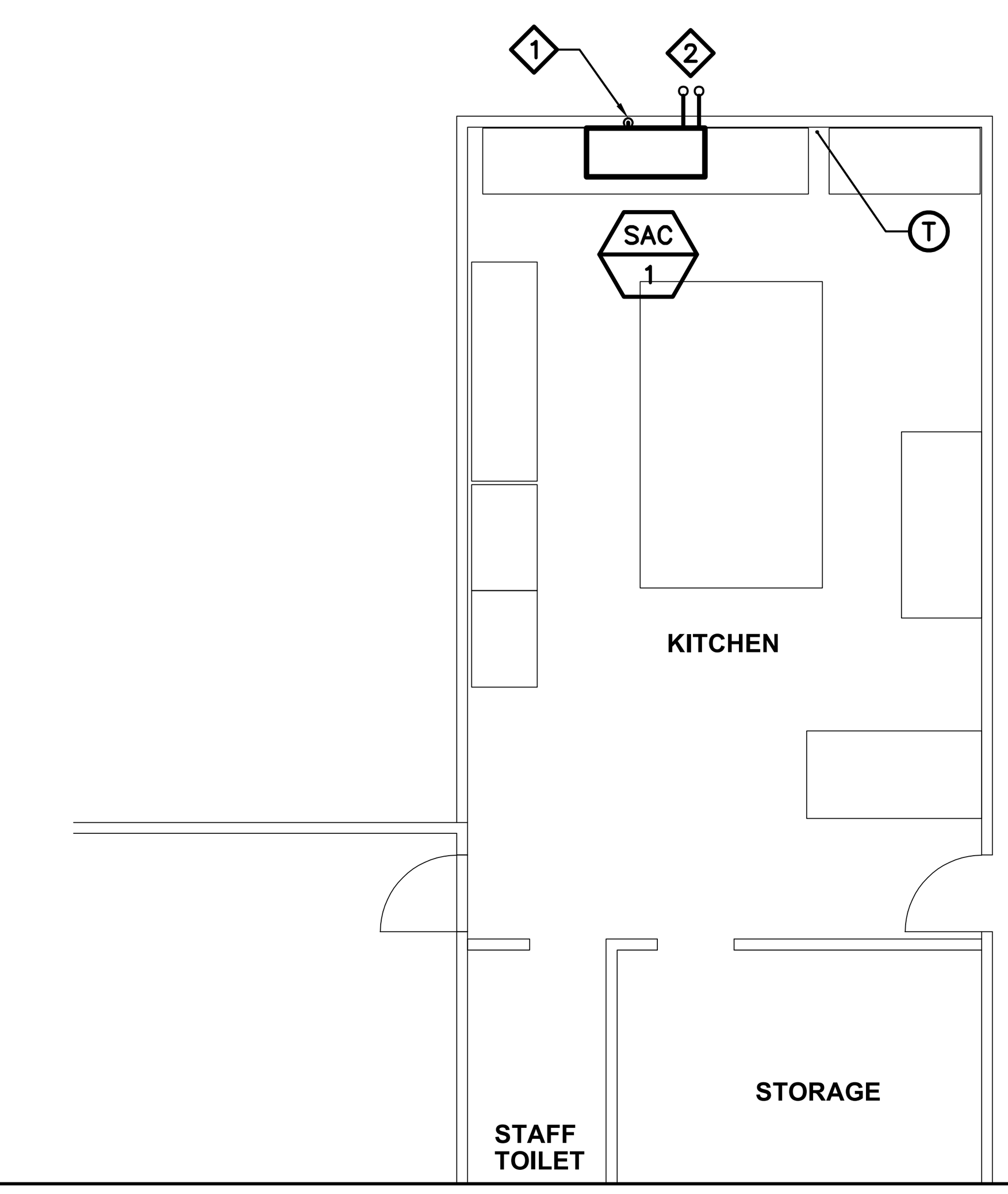
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED DOWN THRU WALL. DISCHARGE INTO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | 1



HVAC FLOOR PLAN | 1/8" = 1'-0" | 2

QC	
INI	%

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

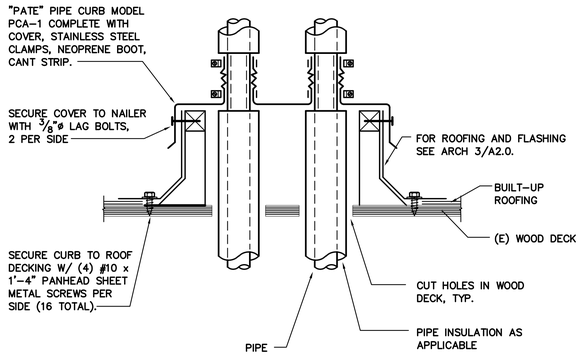
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

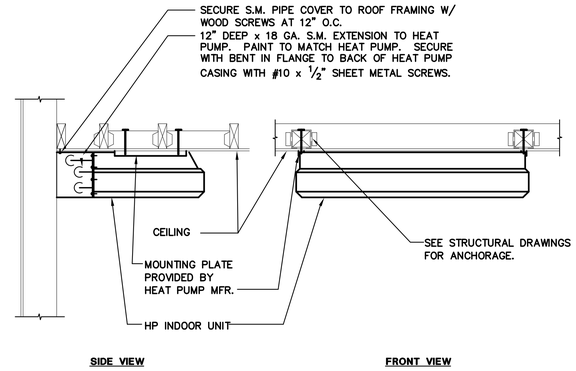
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

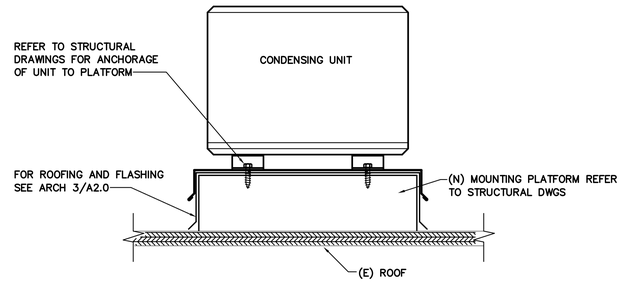
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

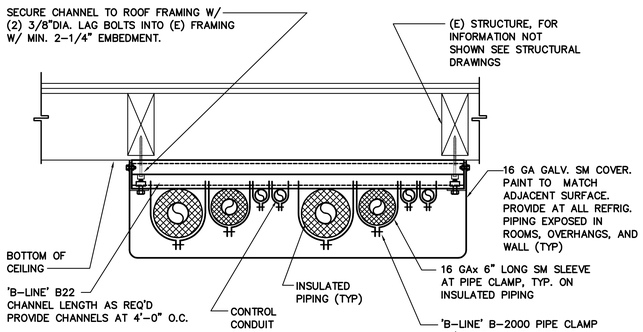
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT — KIP DAVIS GRUBB — No. C19022 — EXP. 11/30/25 — STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — NATHAN A. HEARN — No. E 23927 — 3-31-2024 — ELECTRICAL — STATE OF CALIFORNIA — 10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

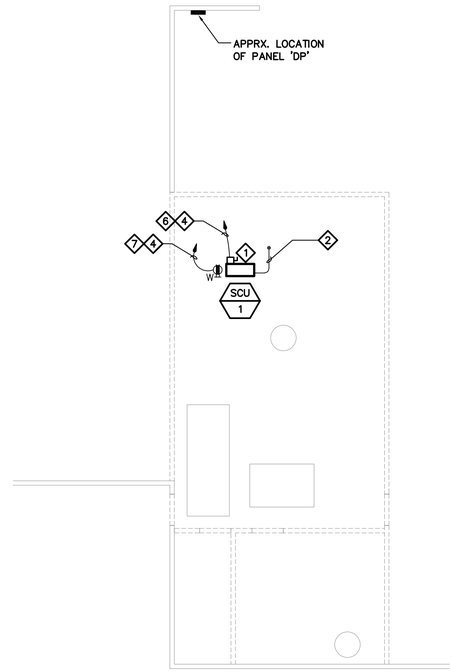
QC
INI	%

SHEET NOTES:

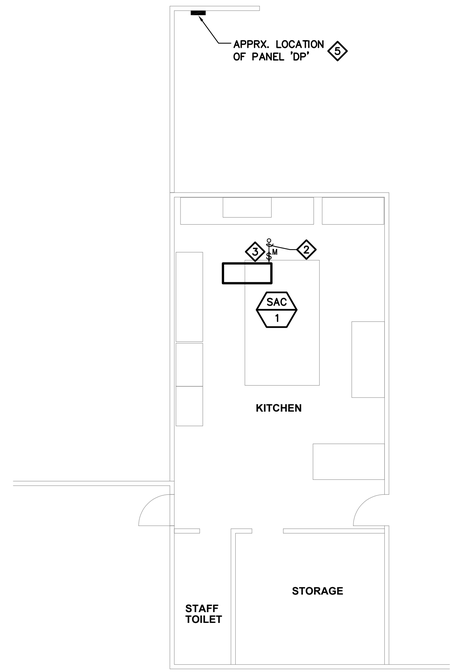
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'DP'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 1



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | PM - DESIGN TEAM
230417.00 | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

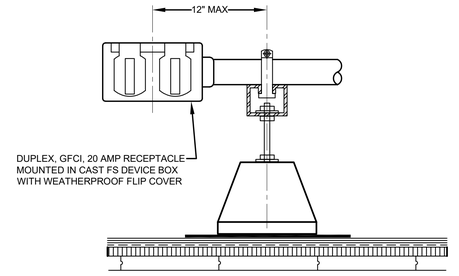
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

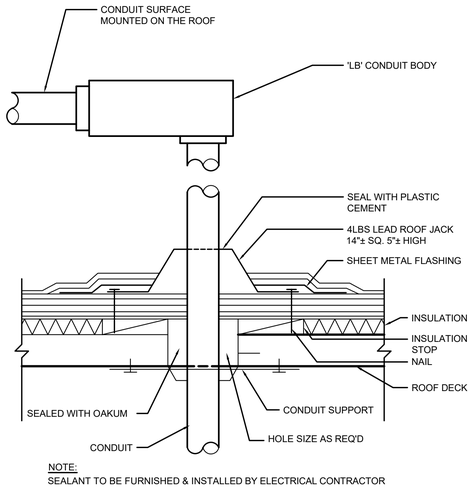


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Roosevelt E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

TAFT AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

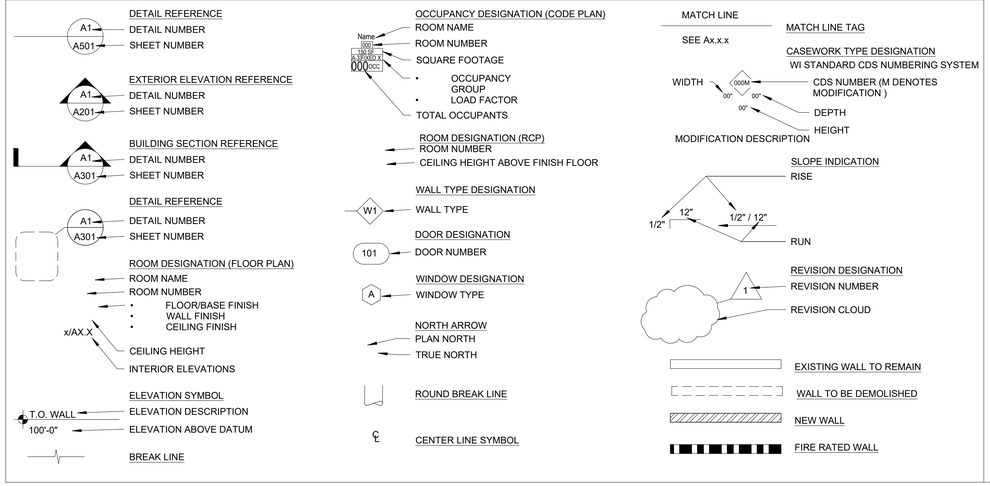
419 Downing, Stockton, CA 95206

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER
AD	AREA DRAIN	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM	**F**	
ANOD	ANODIZED	F	FAHRENHEIT
ARCH	ARCHITECT	FA	FIRE ALARM
@	AT	FACP	FIRE ALARM CONTROL PANEL
B		FDC	FIRE DEPARTMENT CONNECTION
BD	BOARD	FD	FLOOR DRAIN
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET
BO	BOTTOM OF	FE	FIRE EXTINGUISHER
C		FG	FINISH GRADE
C	CELSIUS	FHC	FIRE HOSE CABINET
CH	COAT HOOK	FIN	FINISH
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR
CG	CORNER GUARD	FND	FOUNDATION
CI	CONTINUOUS INSULATION	FO	FINISHED OPENING
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE
CL	CENTER LINE	FOM	FACE OF MASONRY
CLG	CEILING	FOS	FACE OF STUD
CLO	CLOSET	FOW	FACE OF WALL
CLR	CLEAR	FRG	FIBER REINFORCED GYPSUM
CMU	CONCRETE MASONRY UNIT	FSP	FIRE STANDPIPE
COL	COLUMN	FT	FEET
CONC	CONCRETE	FV	FIELD VERIFY
CONT	CONTINUOUS		
CORR	CORRIDOR	**G**	
CT	CERAMIC TILE	GA	GAUGE
CTJ	CONSTRUCTION JOINT	GALV	GALVANIZED
CUH	CABINET UNIT HEATER	GFRC	GLASS-FIBRER-REINFORCED CONCRETE
D		GFRG	GLASS-FIBRER-REINFORCED GYPSUM
D	DEEP	GL	GLASS
DEG	DEGREE	GWB	GYPSUM WALL BOARD
DEMO	DEMOLITION	GYP	GYPSUM
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	**H**	
DIM	DIMENSION	H	HIGH
DN	DOWN	HB	HOSE BIBB
DS	DOWNSPOUT	HDR	HEADER
DWGS	DRAWINGS	HM	HOLLOW METAL
		HPT	HIGH POINT
E		HR	HOUR
E	EXISTING	HT	HEIGHT
EA	EACH		
EJ	EXPANSION JOINT	**I**	
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	ID	INSIDE DIAMETER; INSIDE DIMENSION
EL	ELEVATION	IN	INCH
ELEC	ELECTRICAL	INFO	INFORMATION
ELEV	ELEVATOR	INT	INTERIOR
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		

J		RH	RELATIVE HUMIDITY
JAN	JANITOR	RM	ROOM
		RO	ROUGH OPENING
K	(NOT USED)	RTU	ROOF TOP UNIT
		RWL	RAIN WATER LEADER
L			
LAB	LABORATORY	**S**	
LAV	LAVATORY	S	SMOKE DETECTOR
LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		SCHED	SCHEDULE
LLH	LONG LEG HORIZONTAL	SECT	SECTION
LLV	LONG LEG VERTICAL	SIM	SIMILAR
LPT	LOW POINT	SPEC	SPECIFICATION
		SS	STAINLESS STEEL
M		STD	STANDARD
MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
MAX	MAXIMUM	STRUCT	STRUCTURAL
MFR	MANUFACTURER		
MECH	MECHANICAL	**T**	
MEZZ	MEZZANINE	T	TREAD
MIN	MINIMUM	TEL	TELEPHONE
MO	MASONRY OPENING	TEMP	TEMPORARY
		THK	THICK
N		TOC	TOP OF CONCRETE
NA	NOT APPLICABLE	TOM	TOP OF MASONRY
NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
NTS	NOT TO SCALE	TOW	TOP OF WALL
		TYP	TYPICAL
O		TO	TOP OF
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	**U**	
		UL	UNDERWRITER'S LABORATORIES
OFD	OVERFLOW DRAIN	UNO	UNLESS NOTED OTHERWISE
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND	**V**	
OPP	OPPOSITE	VCT	VINYL COMPOSITE TILE
ORIG	ORIGINAL	VERT	VERTICAL
		VEST	VESTIBULE
P		VIF	VERIFY IN FIELD
P LAM	PLASTC LAMINATE		
PLAS	PLASTER	**W**	
PLUMB	PLUMBING	W/	WITH
PR	PAIR	W/O	WITHOUT
PSI	POUNDS PER SQUARE INCH	WD	WOOD
PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		WRB	WEATHER RESISTIVE BARRIER
Q			
QT	QUARRY TILE	X,Y,Z	NOT USED
R			THE PRECEDING LIST OF ABBREVIATIONS
R	RISER OR RADIUS		IS PRESENTED AS A GENERAL GUIDE
RAD	RADIUS		AND DOES NOT NECESSARILY SHOW ALL
RCP	REFLECTED CEILING PLAN		ABBREVIATIONS USED. OTHER
RD	ROOF DRAIN		GENERALLY ACCEPTED ABBREVIATIONS
REF	REFRIGERATOR		MAY BE FOUND AMONG THE DRAWINGS -
REQD	REQUIRED		SOME ABBREVIATIONS SHOWN ABOVE
REV	REVISION		MAY NOT BE USED WITHIN THIS DRAWING
			SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
TAFT E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

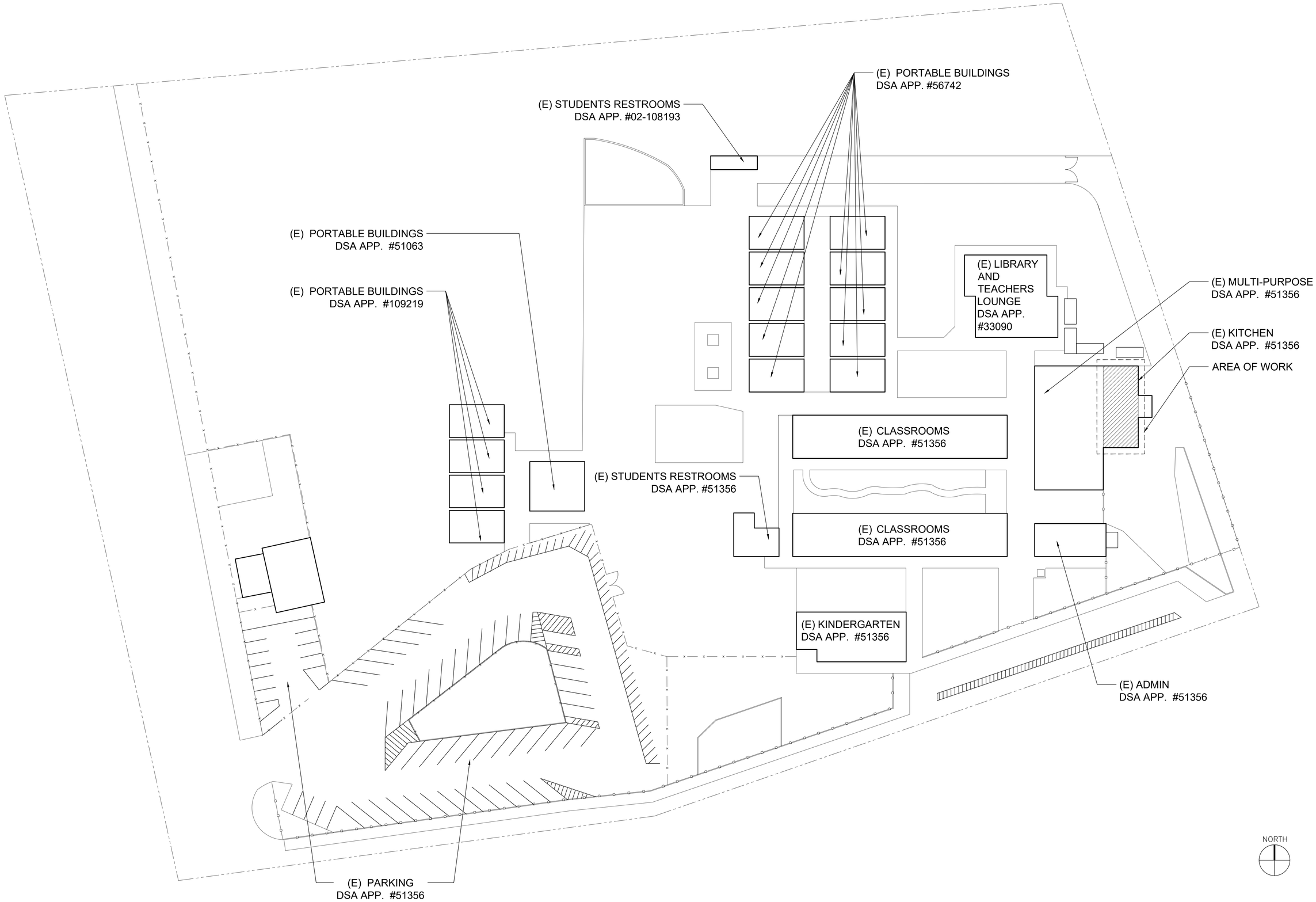
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 30'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

PROJECT TITLE:
TAFT E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

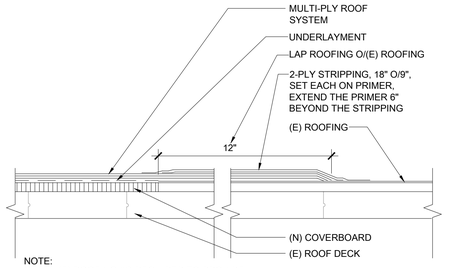
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0



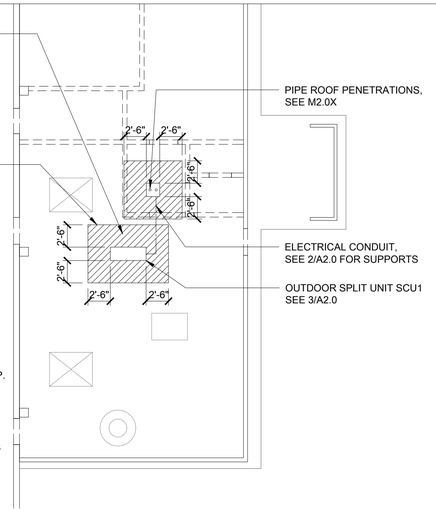
NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

3" = 1'-0" | 1

PATCH/REPAIR ROOFING WHERE (N) HVAC EQUIP. WILL BE INSTALLED, AREA (SHOWN HATCHED). ROOFING SYSTEM TO BE COLD PROCESS BUILT-UP ASPHALT ROOFING. SEE SPECIFICATION SECTION 075130 SEE DETAIL 1/A2.0 FOR TIE-IN OF (N) TO (E) ROOFING

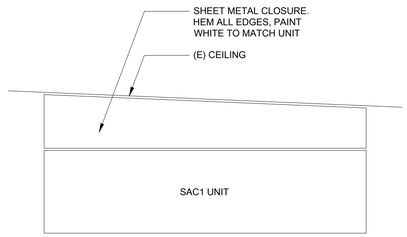
SEE STRUCTURAL FOR EXTENT OF REMOVAL OF ROOF DECK IN THIS AREA TO ACCOMMODATE THE INSTALLATION OF MOUNTING HARDWARE AND BLOCKING



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

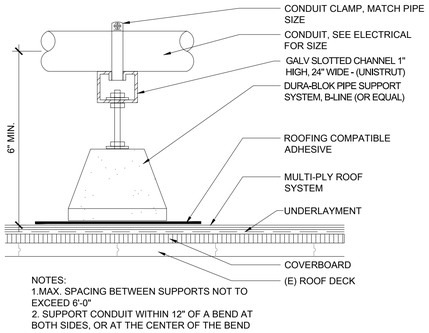
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

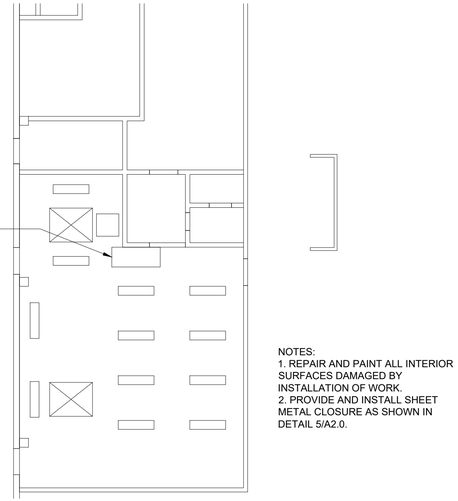
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

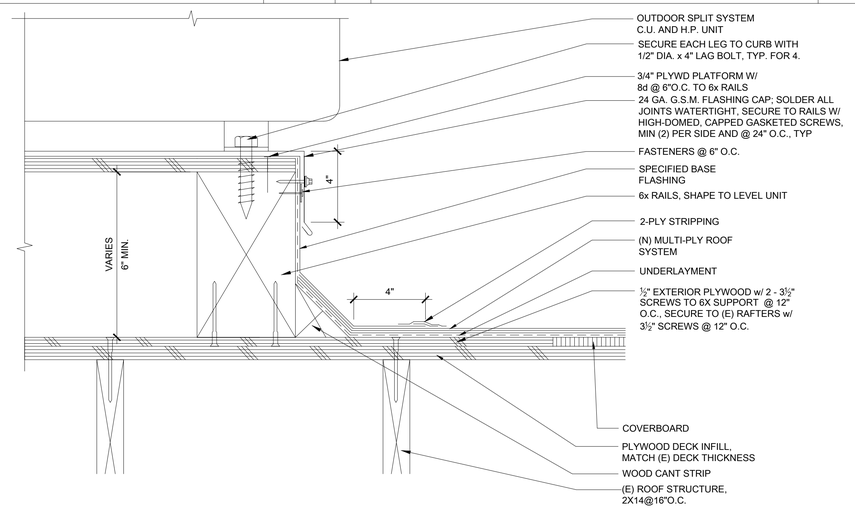
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

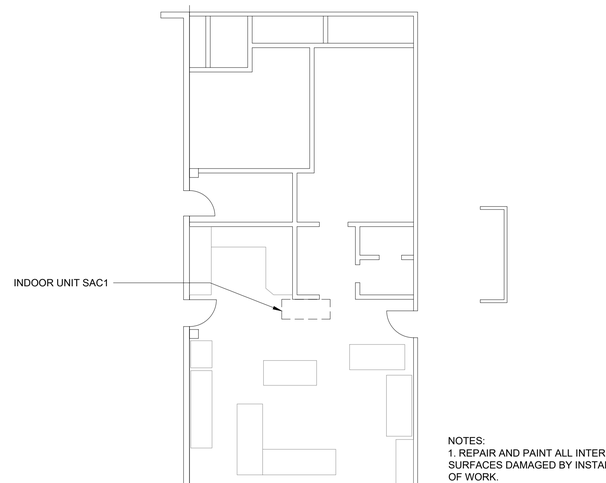
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
TAFT E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PRECAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD	SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
		TOF	TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C]	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 11/2" GALV ROOFING NAIL 25/32" THICK 13/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL
   - MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ☒ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES, IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .598

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE Fp= .029 Wp

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

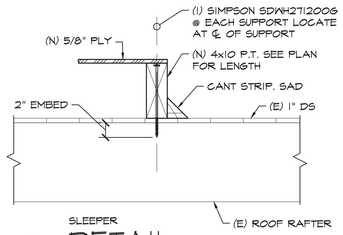
PROJECT #:
2023-024

REVISION #:

DATE:
10/23/2024

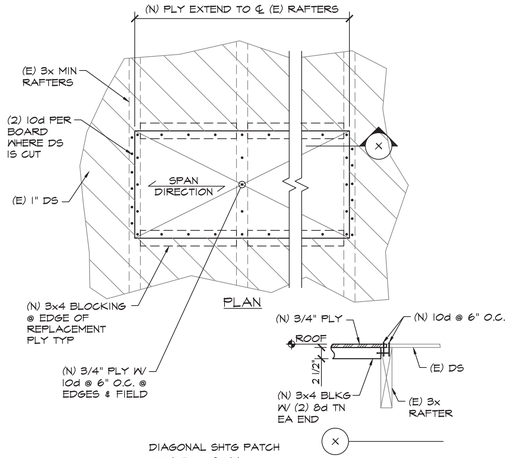
TYPICAL NOTES AND DETAILS

S1.0



1 S2.0 DETAIL

1" = 1'-0" 022DET001



2 S2.0 DIAGONAL SHTG PATCH DETAIL

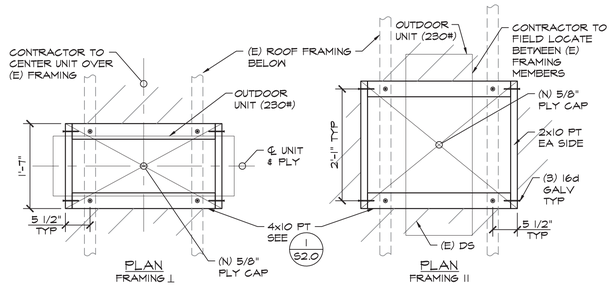
3/4" = 1'-0" 022DET002

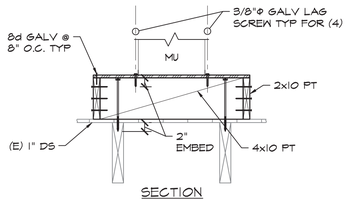
5 S2.0 NOT USED

= 1'-0"

6 S2.0 NOT USED

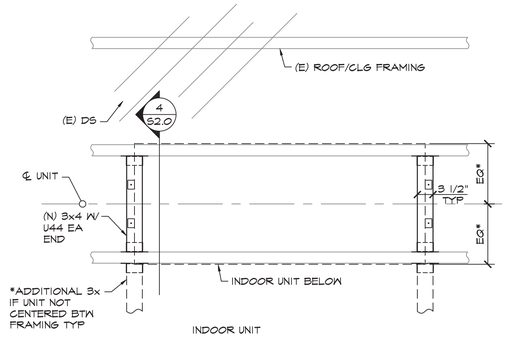
= 1'-0"





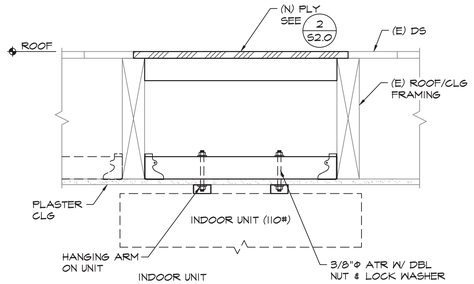
7 S2.0 OUTDOOR UNIT ANCHORAGE DETAIL

3/4" = 1'-0" 022DET007_9x_DS



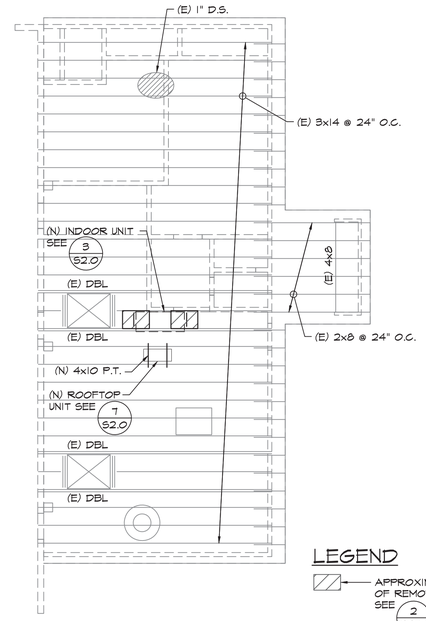
3 S2.0 INDOOR UNIT DETAIL

3/4" = 1'-0" 022DET008



4 S2.0 INDOOR UNIT DETAIL

1 1/2"= 1'-0" 022DET004



KITCHEN ROOF FRAMING PLAN

A S2.0

1/8" = 1'-0"

N

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

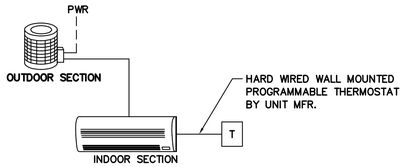
PROJECT #:
2023-024

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
(T)x	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KLIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

QC
INI	%

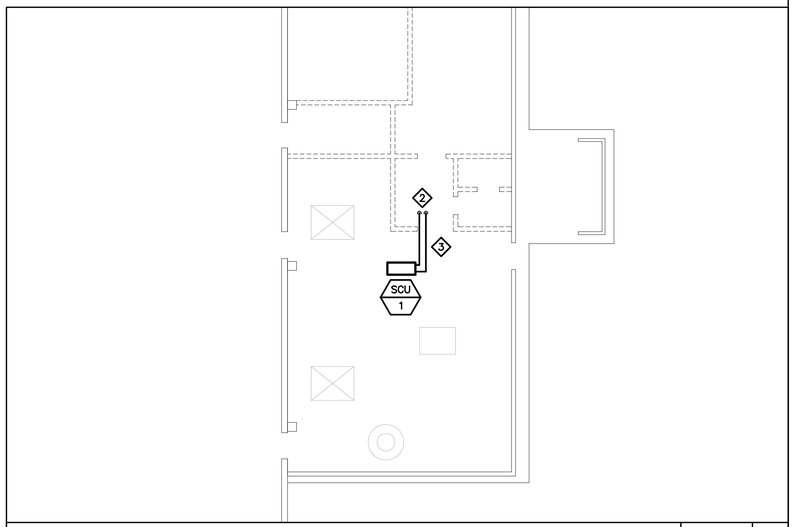
SHEET NOTES:

1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.

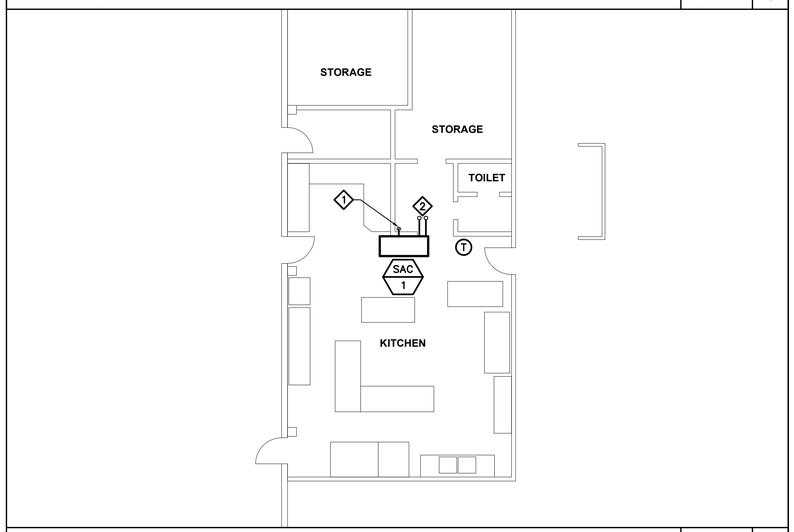
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD(D) ALONG INTERIOR OF WATER HEATER ROOM WALL. OFFSET THRU WALL BELOW SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN 1/8" = 1'-0" **1**



HVAC FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

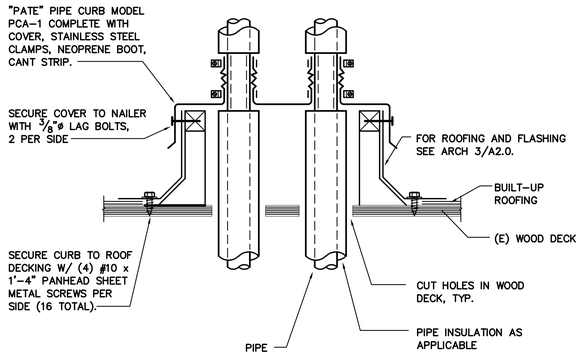
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

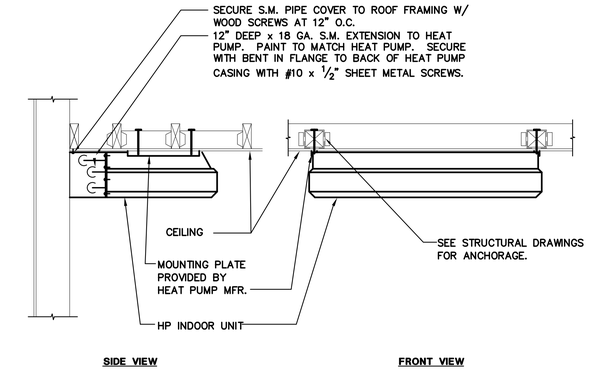
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

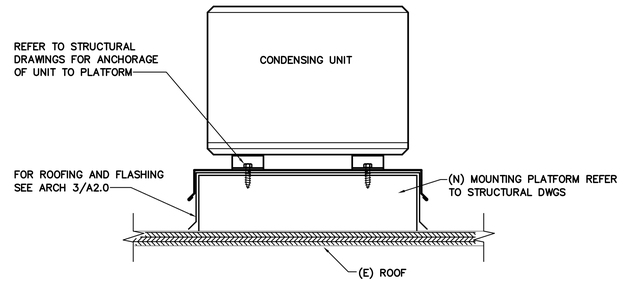
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

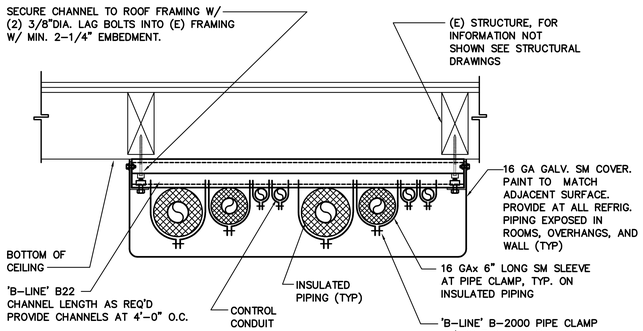
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC

INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KLIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA 10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

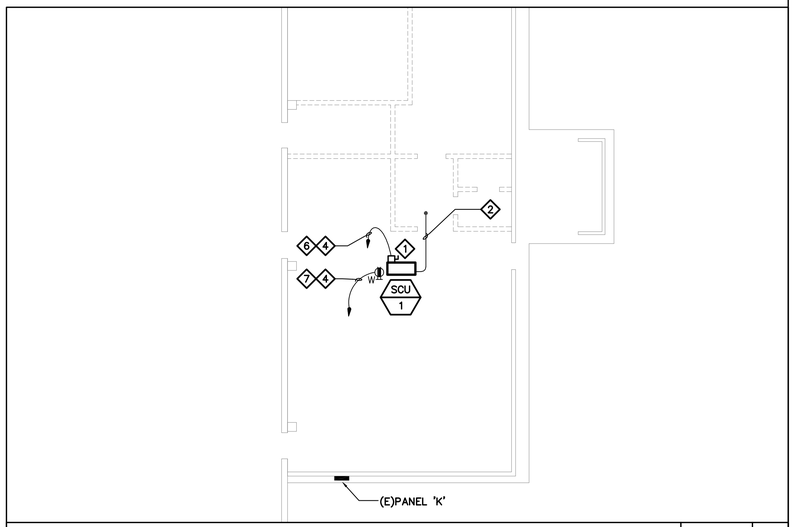
QC
INI	%

SHEET NOTES:

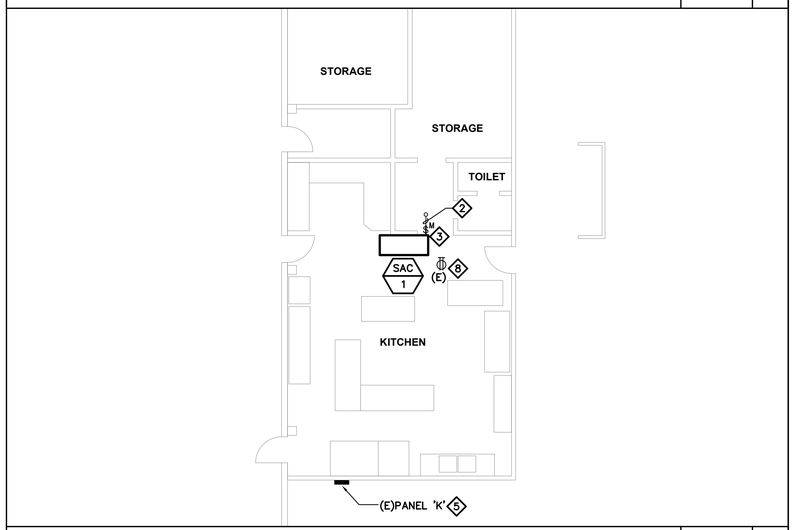
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF OVERHANG TO GO DOWN TO PANEL 'K'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND
8. (E) SURFACE RECEPTACLE LOCATED AT 96" AFF. RELOCATE RECEPTACLE TO 66" AFF. PROVIDE SURFACE RACEWAY AND WIRES AS REQUIRED.



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

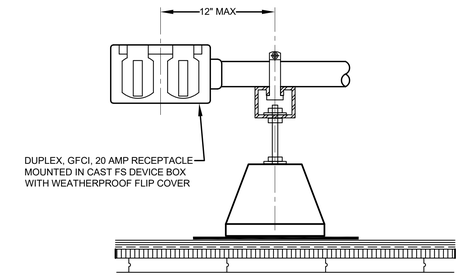
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

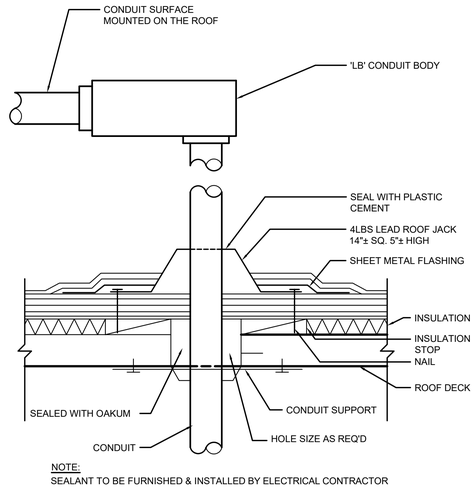


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Taft E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

TAYLOR AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

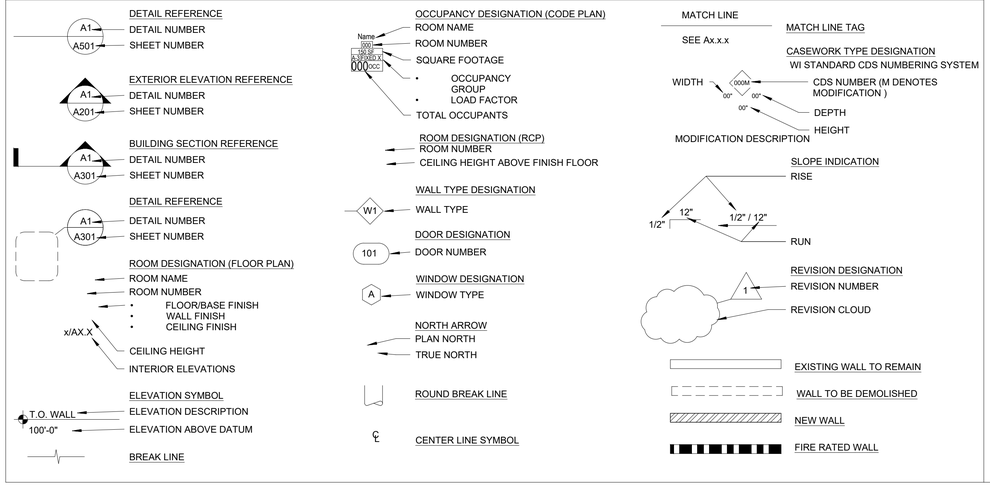
1101 Lever Blvd, Stockton, CA 95206

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
TAYLOR E.S. AUGMENT KITCHEN HVAC STOCKTON USD

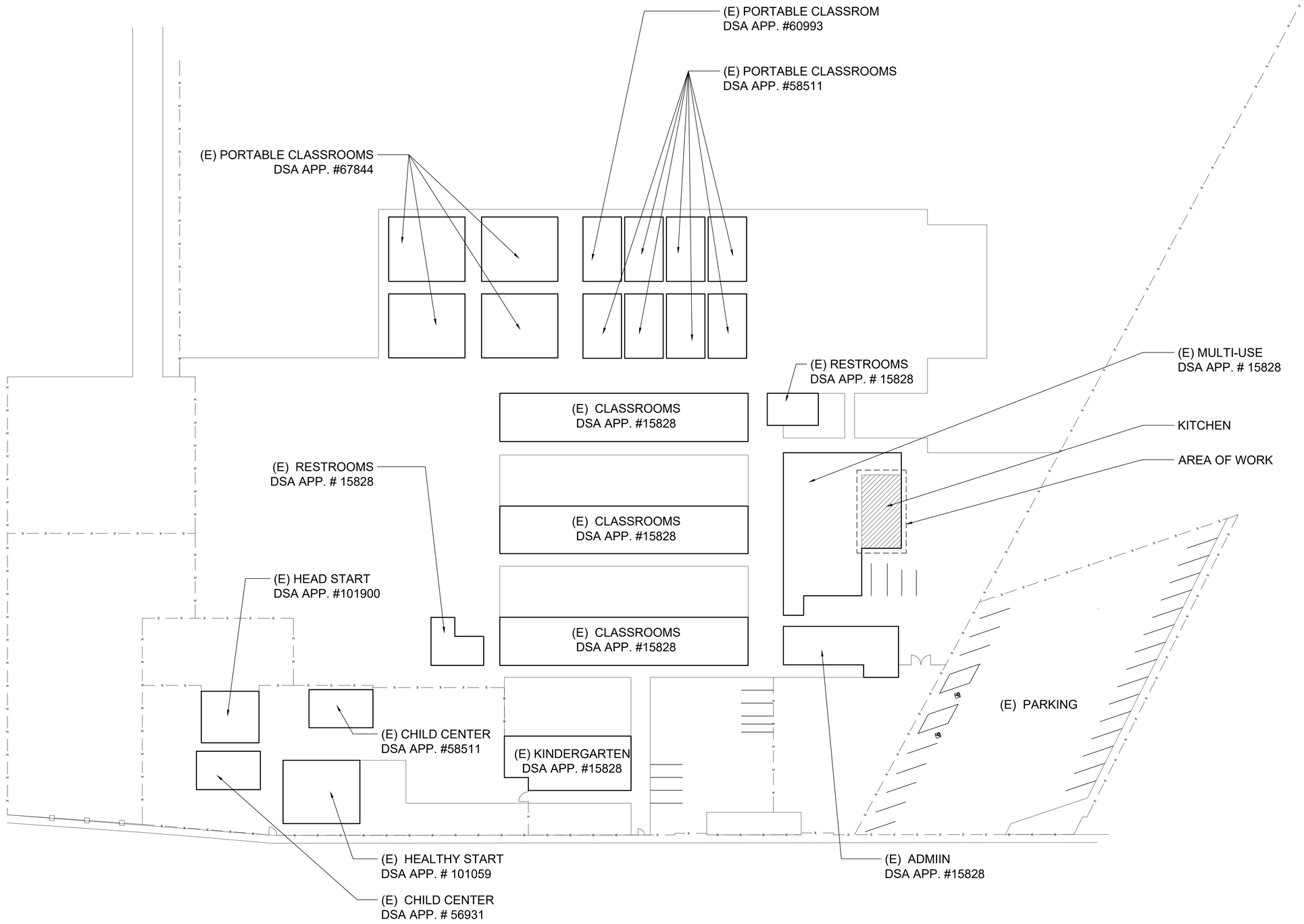
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 30'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
TAYLOR E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

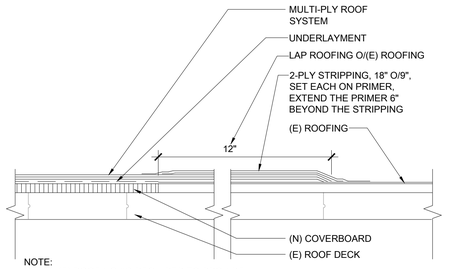
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

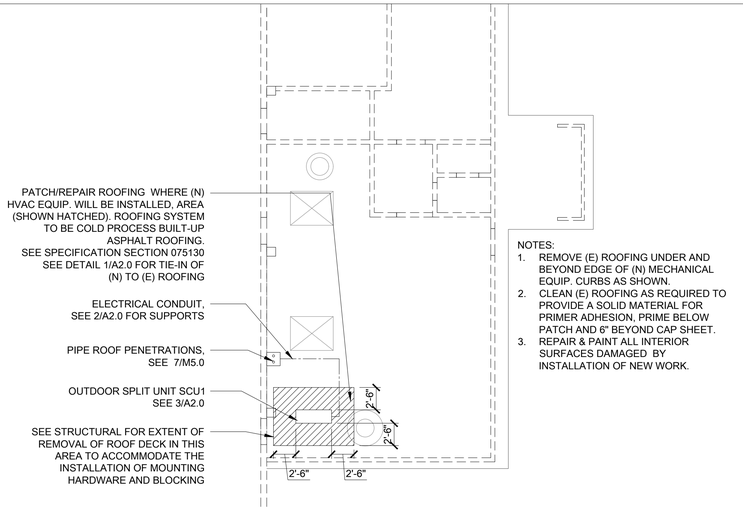
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

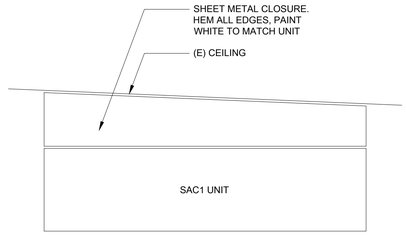
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

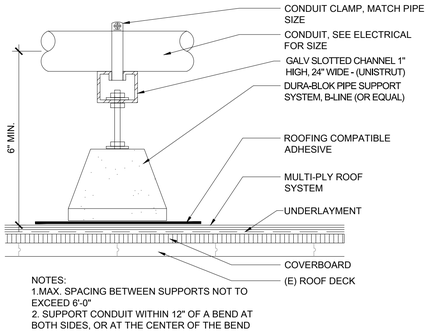
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

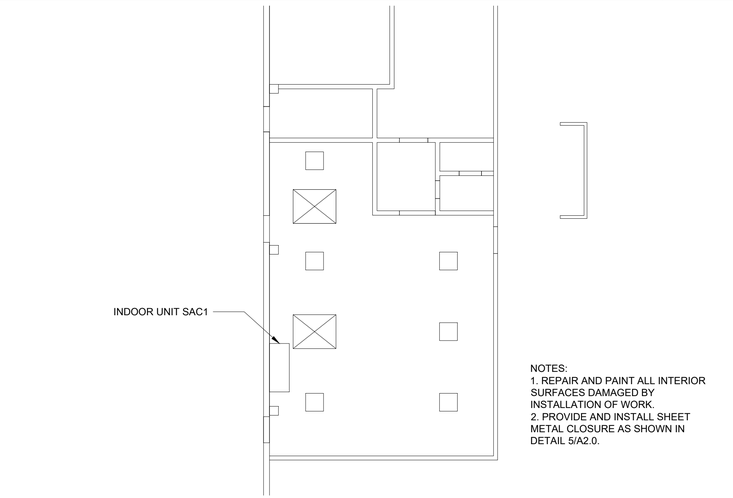
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

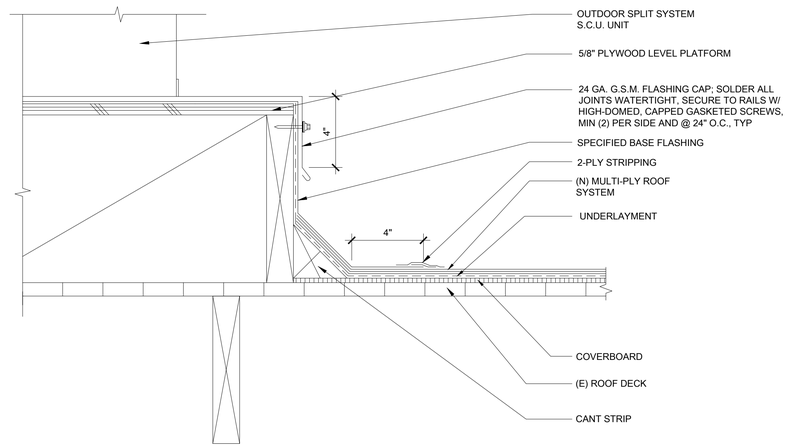
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

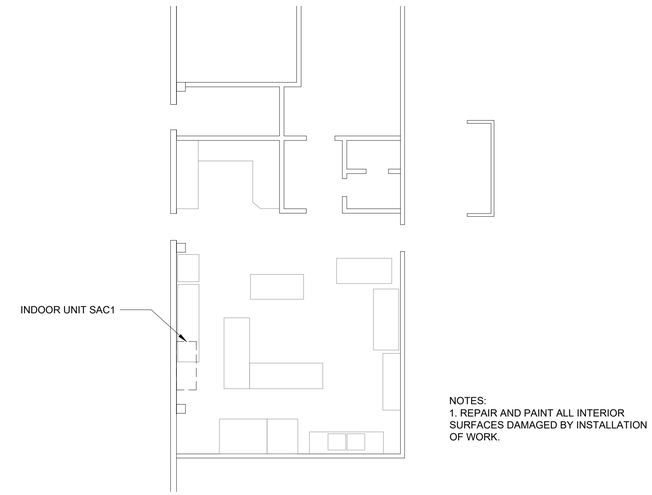
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
TAYLOR E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT
AB	ANCHOR BOLTS
AC	ASPHALTIC CONCRETE
AFF	ABOVE FINISH FLOOR
BN	BOUNDARY NAILING
BEV	BEVELED
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DF	DOUGLAS FIR
(E)	EXISTING
EF	EACH FACE
EW	EACH WAY
EJ	EXPANSION JOINT
EOS	EDGE OF SLAB
EN	EDGE NAILING
ES	EACH SIDE
FA	FRAMING ANCHOR
FD	FLOOR DRAIN
FF	FINISH FLOOR
FLG	FLANGE
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
GLB	GLUE LAMINATED BEAM
GSM	GALVANIZED SHEET METAL
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HDG	HOT DIPPED GALVANIZED
HP	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
ID	INSIDE DIAMETER
JT	JACK TRUSS
LFRS	LATERAL FORCE RESISTING SYTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LS	LAG SCREW
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MU	MECHANICAL UNIT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NSG	NON SHRINK GROUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
OWSG	OPEN WEB STEEL GIRDER
OWSJ	OPEN WEB STEEL JOIST
OH	OPPOSITE HAND
PCC	PRECAST CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED POINT
PW	PLYWOOD
R	RADIUS
SAD	SEE ARCHITECTURAL DRAWINGS
SDST	SELF DRILLING SELF TAPPING
SIM	SIMILAR
SCJ	SLIP CONTROL JOINT
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SS	STAINLESS STEEL
T24	TITLE 24 CALIFORNIA CODE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING TOP OF FRAMING
TOM	TOP OF MASONRY
T.O. SLAB	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
WS	WATER STOP
WWF	WELDED WIRE FABRIC
WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .394"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES, IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .609

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p = 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

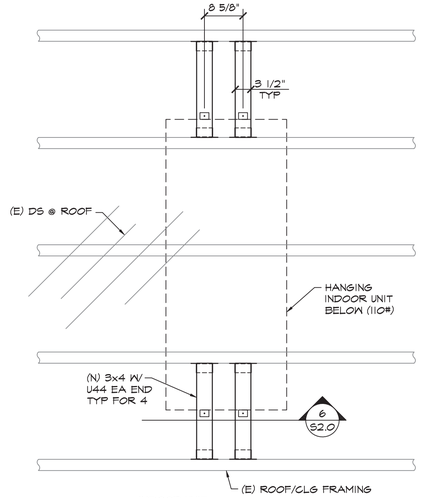
PROJECT #:
2023-022

REVISION #:

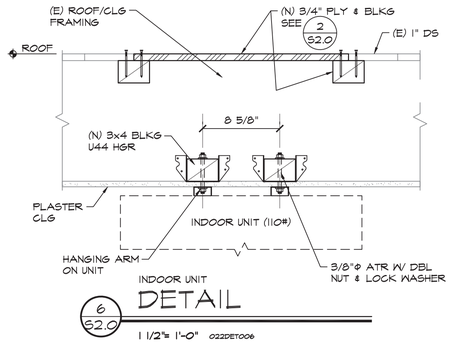
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

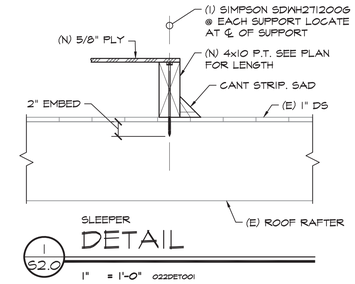
S1.0



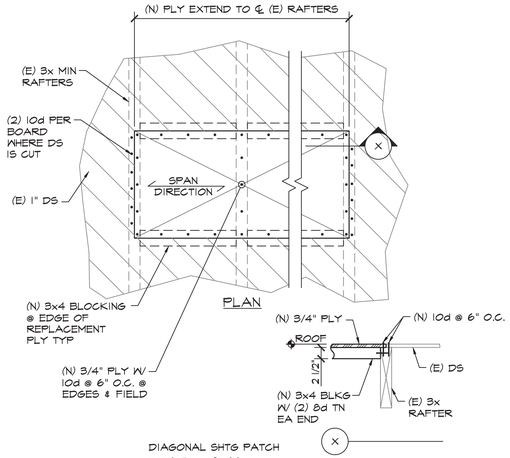
INDOOR UNIT
DETAIL
5 / 52.0
3/4" = 1'-0" 022DET005



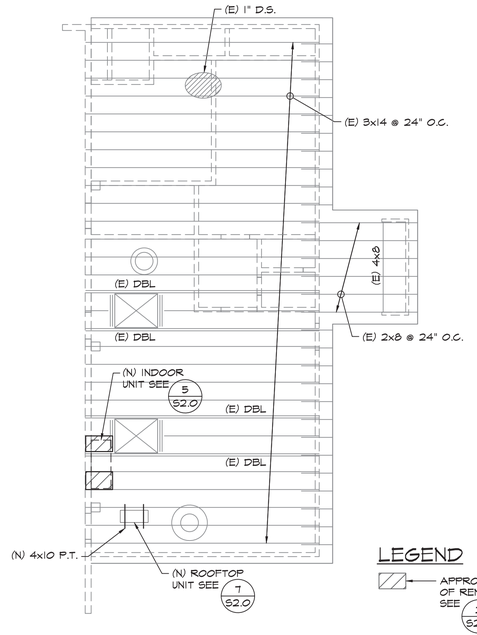
INDOOR UNIT
DETAIL
6 / 52.0
1 1/2"= 1'-0" 022DET006



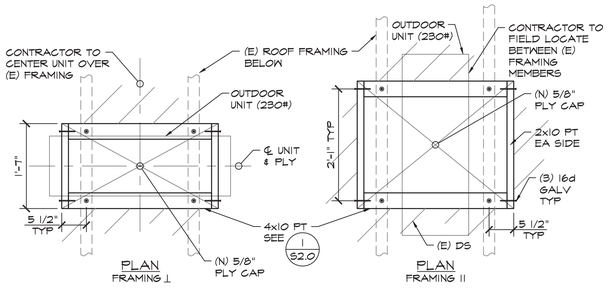
DETAIL
1 / 52.0
1" = 1'-0" 022DET001



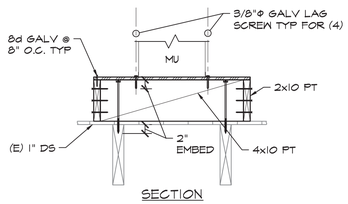
DIAGONAL SHTG PATCH
DETAIL
2 / 52.0
3/4" = 1'-0" 022DET002



KITCHEN
ROOF FRAMING PLAN
A / 52.0
1/8" = 1'-0"



NOT USED
3 / 52.0
= 1'-0"



OUTDOOR UNIT ANCHORAGE
DETAIL
7 / 52.0
3/4" = 1'-0" 022DET007_SK_DS

NOT USED
4 / 52.0
= 1'-0"

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-022

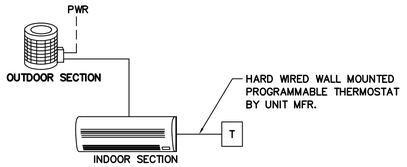
REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0

QC
INI | %



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	①②③④⑤

NOTES:

1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KYLE DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND		AND	Yes	AND		AND		AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

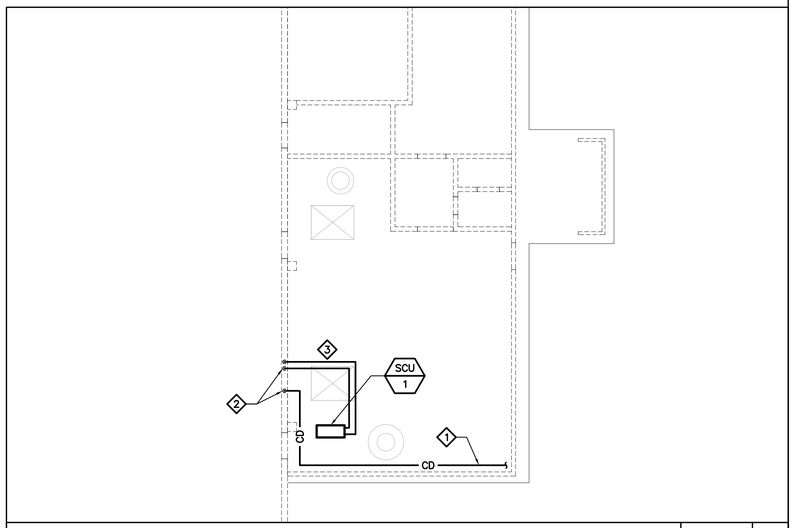
QC	
INI	%

SHEET NOTES:

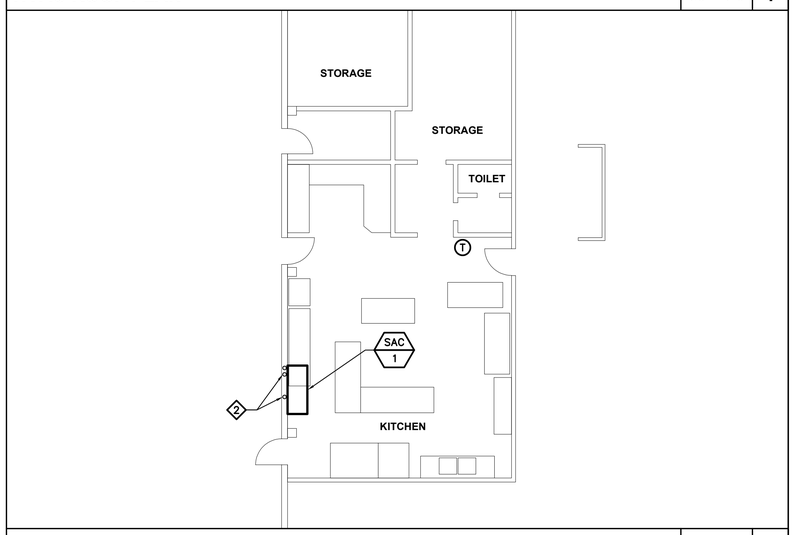
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CONDENSATE DRAIN PIPE ON ROOF, FOR MOUNTING DETAIL SEE 5/M5.0. DISCHARGE TO (E) GUTTER W/ MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT OR CONDENSATE DRAIN PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN 1/8" = 1'-0" **1**



HVAC FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

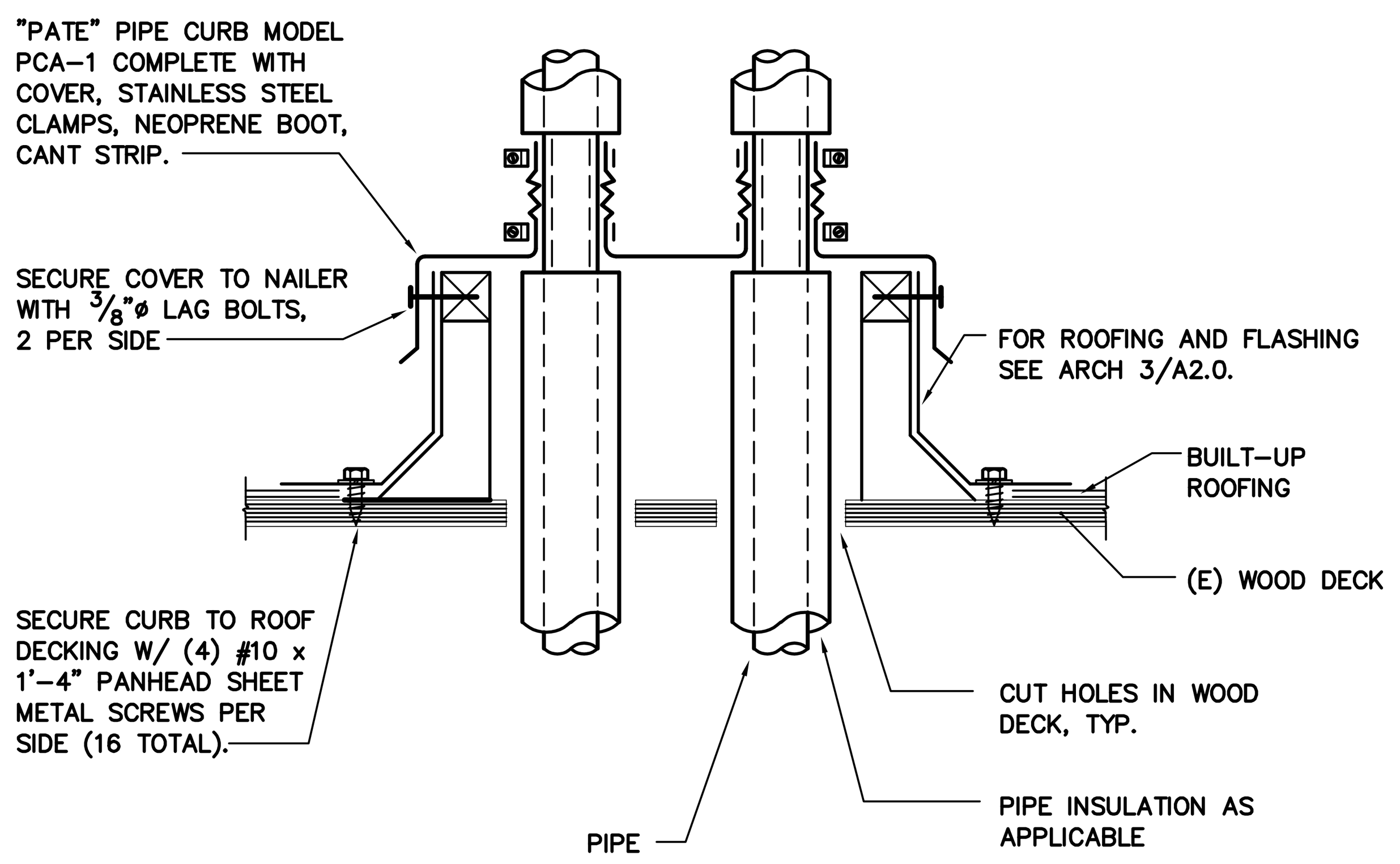
PROJECT #:
2022-025.00

REVISION #:

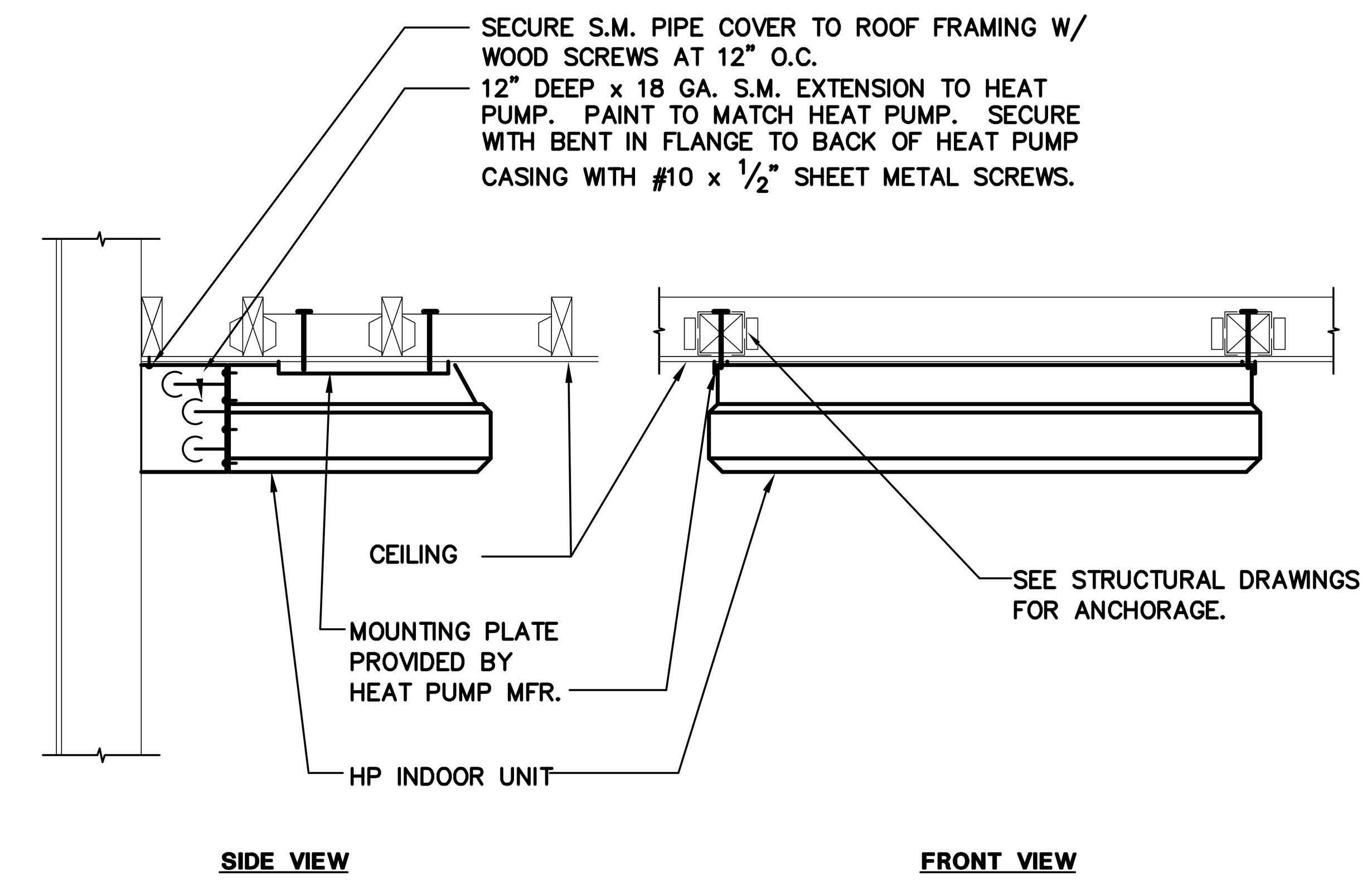
DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

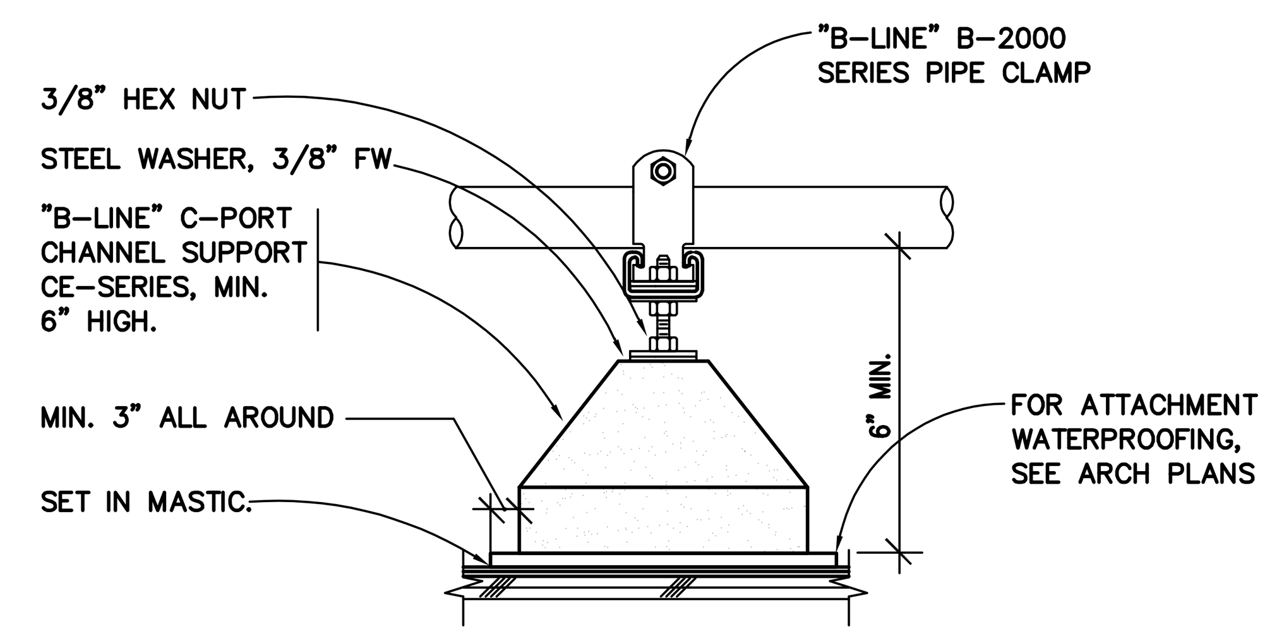
M2.0



PIPE THRU ROOF
SCALE : NONE — 7 / M5.0



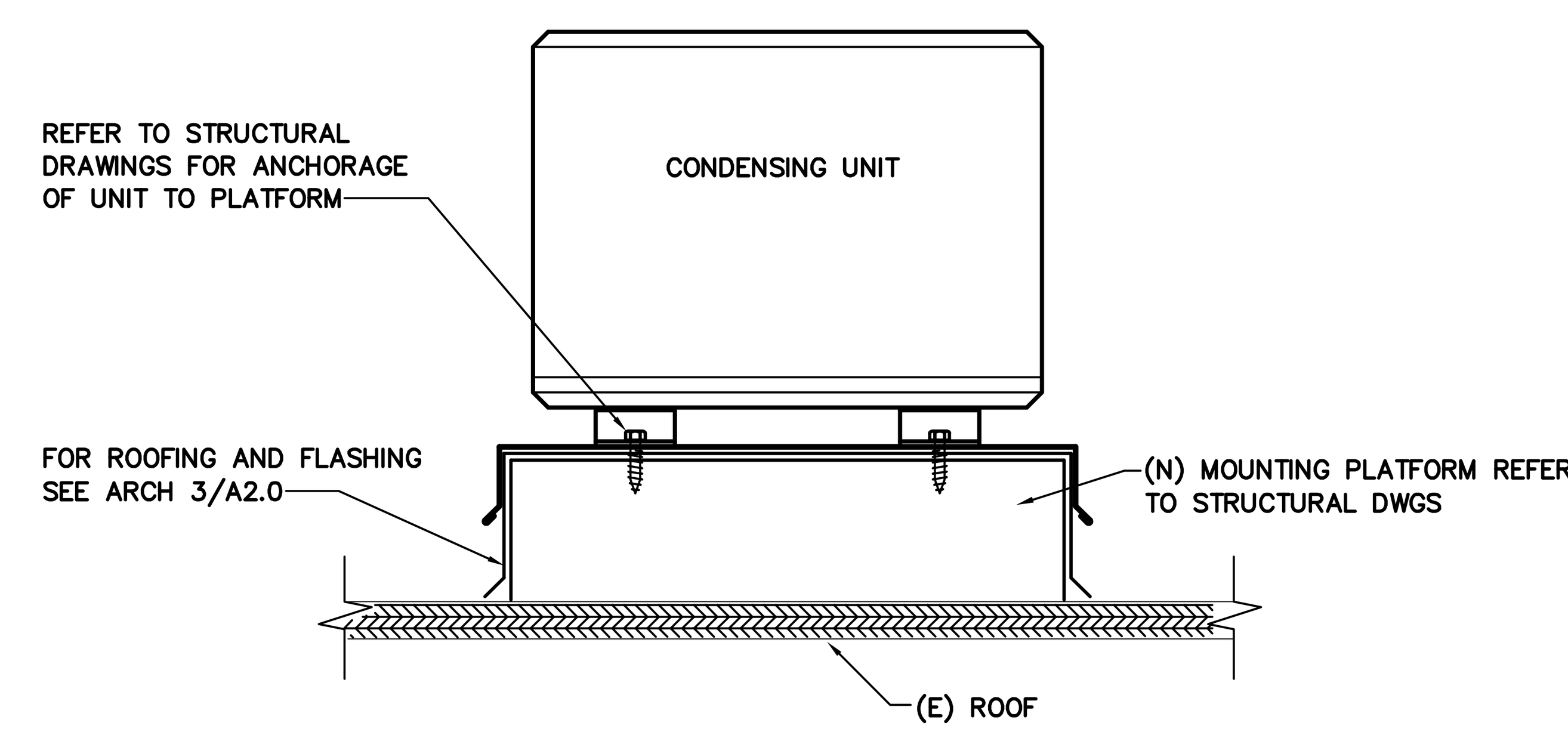
HP INDOOR UNIT MOUNTING
SCALE : NONE — 1 / M5.0



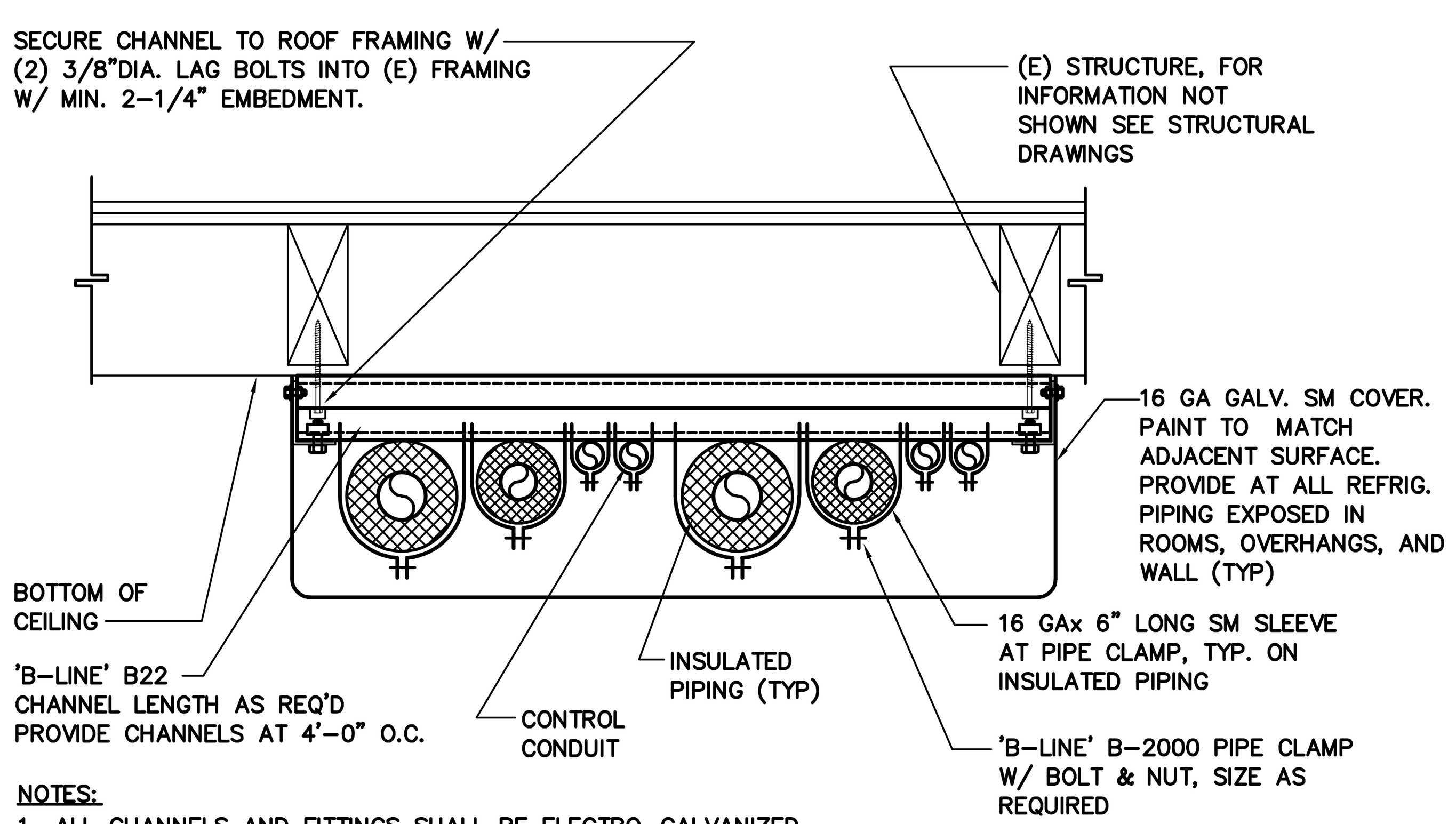
2022 CPC TABLE 1210.2.4.1 SUPPORT OF PIPING — NFPA 54-7.2.5.1 TABLE 7.2.5.2 SUPPORT OF PIPING

STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	7/8 OR 1 (HORZ.)	8

CD MOUNTING ON ROOF
SCALE : NONE — 5 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING
SCALE : NONE — 2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING
SCALE : NONE — 9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655
LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA
capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA 10/23/2023

DATE SIGNED: _____

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

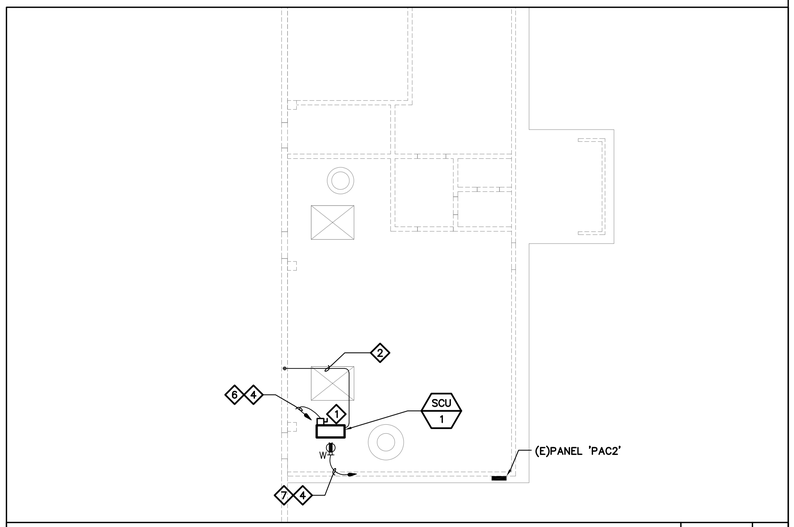
QC	
INI	%

SHEET NOTES:

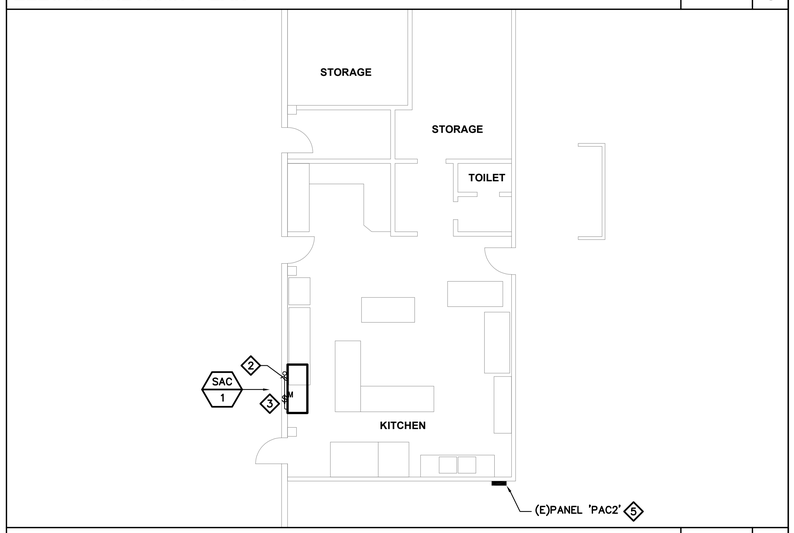
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN ELLED DOWN TO GO TO PANEL 'PAC2'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1-50/2 AND 1-20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" - 2#6, 1#10GND
7. 3/4" - 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

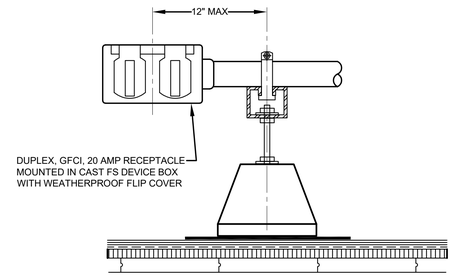
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

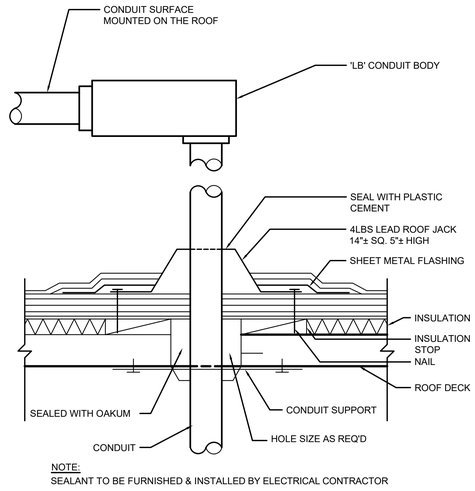


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
J.H.P. DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED:

PROJECT TITLE:
Taylor E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

VAN BUREN AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

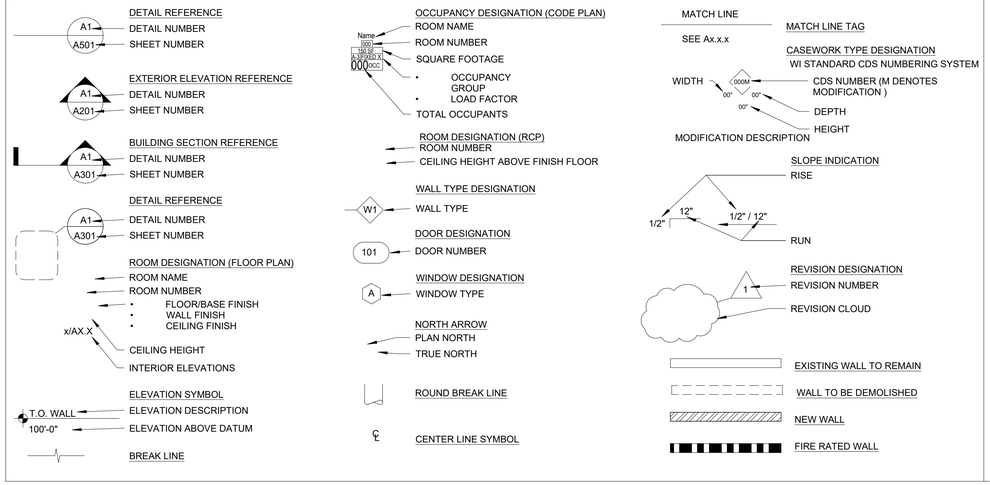
1628 E. Tenth St, Stockton, CA 95206

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
VAN BUREN E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

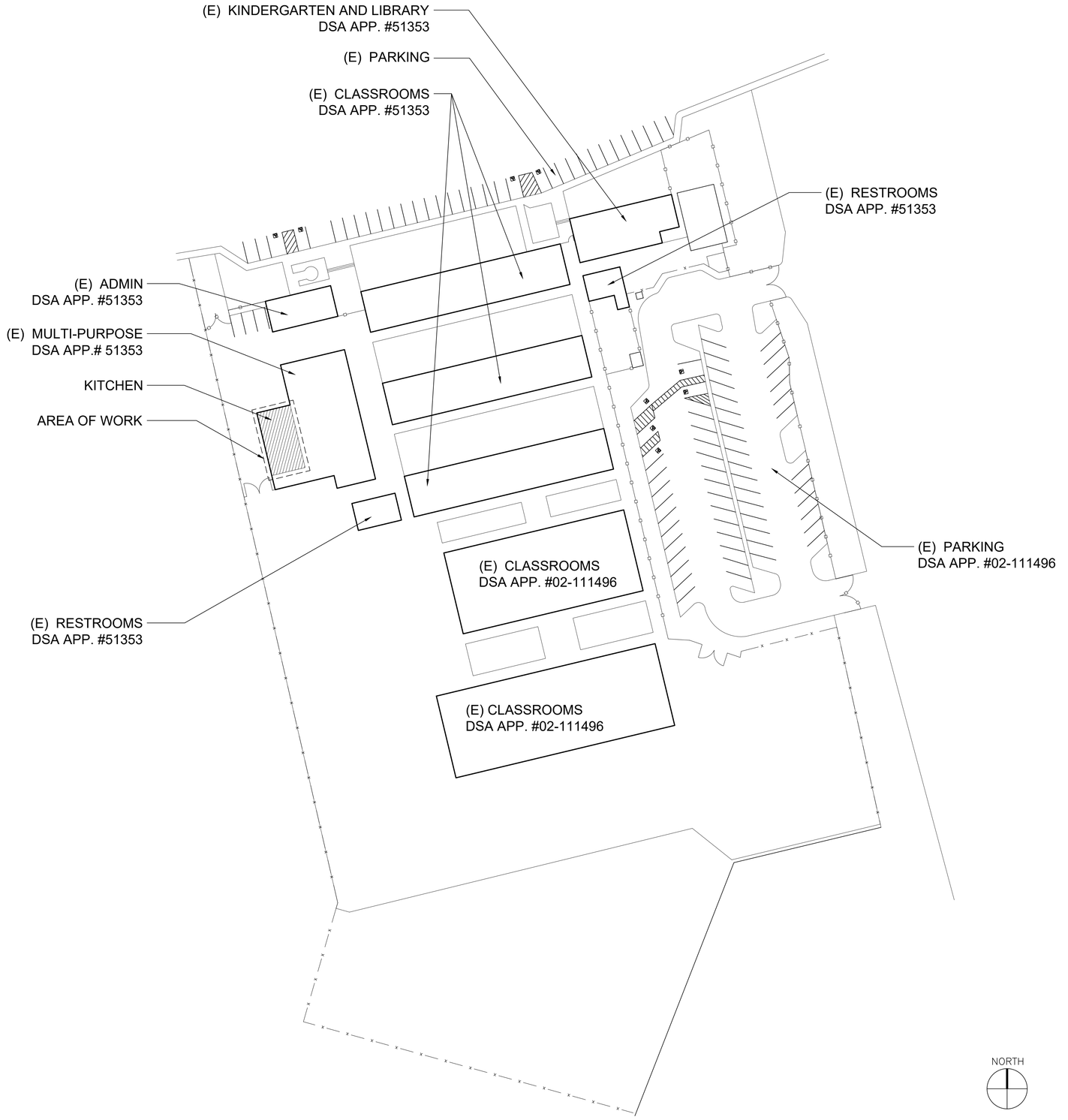
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
VAN BUREN E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

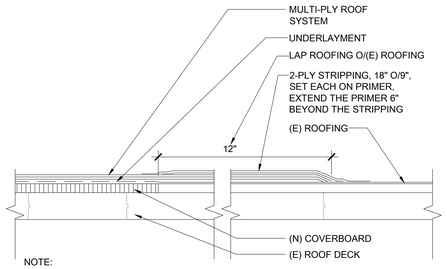
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

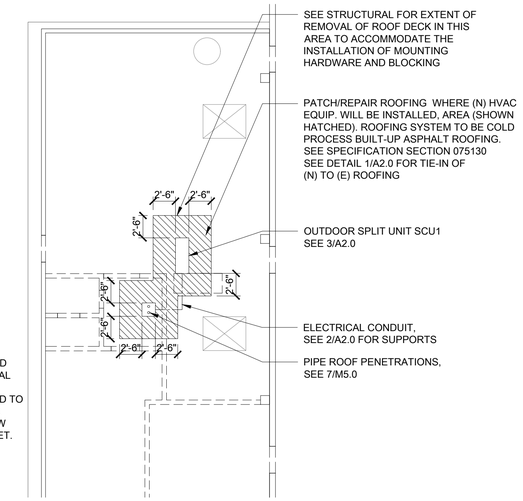
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

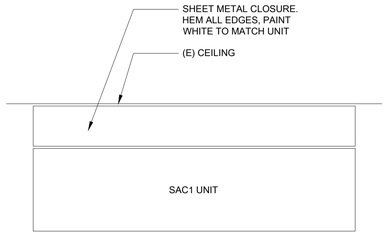
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

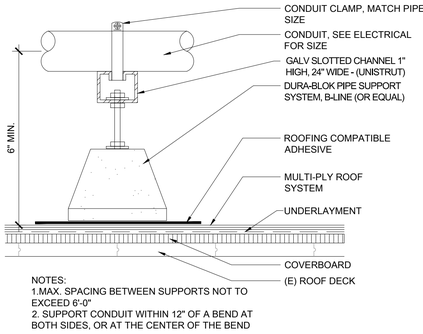
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

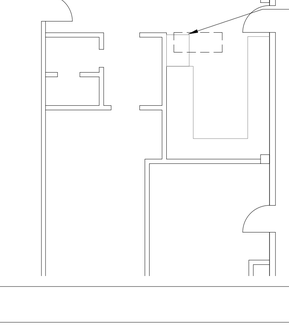
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

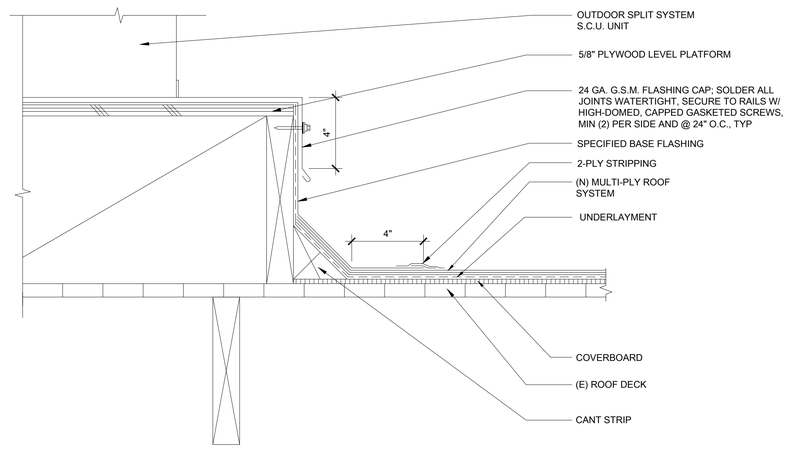
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3

NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
VAN BUREN E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT
AB	ANCHOR BOLTS
AC	ASPHALTIC CONCRETE
AFF	ABOVE FINISH FLOOR
BN	BOUNDARY NAILING
BEV	BEVELED
BOC	BOTTOM OF CONCRETE
BOF	BOTTOM OF FOOTING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DF	DOUGLAS FIR
(E)	EXISTING
EF	EACH FACE
EW	EACH WAY
EJ	EXPANSION JOINT
EOS	EDGE OF SLAB
EN	EDGE NAILING
ES	EACH SIDE
FA	FRAMING ANCHOR
FD	FLOOR DRAIN
FF	FINISH FLOOR
FLG	FLANGE
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
GLB	GLUE LAMINATED BEAM
GSM	GALVANIZED SHEET METAL
GT	GIRDER TRUSS
HAS	HEADED ANCHOR STUD
HDG	HOT DIPPED GALVANIZED
HP	HIGH POINT
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HIP TRUSS
ID	INSIDE DIAMETER
JT	JACK TRUSS
LFRS	LATERAL FORCE RESISTING SYTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LS	LAG SCREW
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MU	MECHANICAL UNIT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NSG	NON SHRINK GROUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
OWSG	OPEN WEB STEEL GIRDER
OWSJ	OPEN WEB STEEL JOIST
OH	OPPOSITE HAND
PCC	PRECAST CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED POINT
PW	PLYWOOD
R	RADIUS
SAD	SEE ARCHITECTURAL DRAWINGS
SDST	SELF DRILLING SELF TAPPING
SIM	SIMILAR
SCJ	SLIP CONTROL JOINT
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SS	STAINLESS STEEL
T24	TITLE 24 CALIFORNIA CODE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING OR TOP OF FRAMING
TOM	TOP OF MASONRY
T.O. SLAB	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
UNO	UNLESS NOTED OTHERWISE
WS	WATER STOP
WWF	WELDED WIRE FABRIC
WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   - PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   - STRUCTURAL FRAMING — DF#1 TYPICAL; MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   - STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    - 2x & 3x MEMBERS — U HANGERS
    - 4x MEMBERS — HU HANGERS
    - 6x MEMBERS — HUTF HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    - ⊠ CONTINUOUS
    - ▱ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
't' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐ I ■ II ☐ III ☐ IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .588

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE Fp= .029 Wp

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER 2837 BRAD J. ROLLINS STATE OF CALIFORNIA

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2023-025

REVISION #:

DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

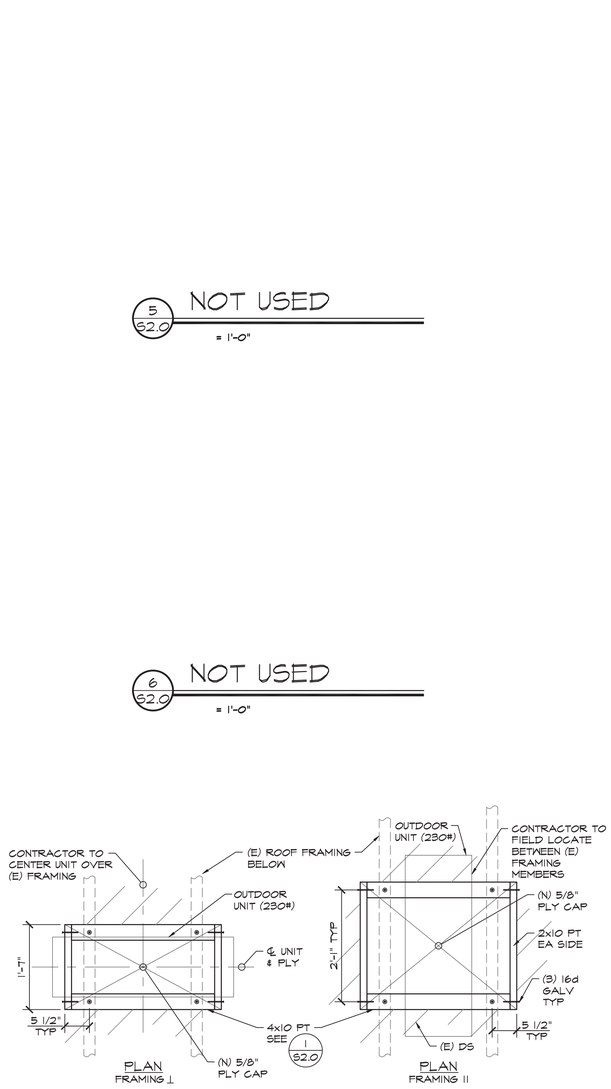
S1.0

5 / S2.0 NOT USED

= 1'-0"

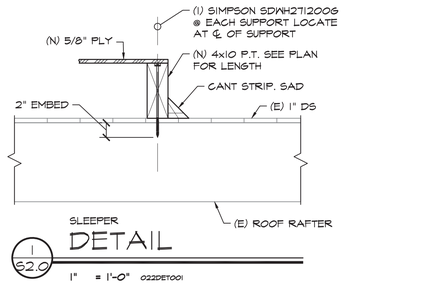
6 / S2.0 NOT USED

= 1'-0"



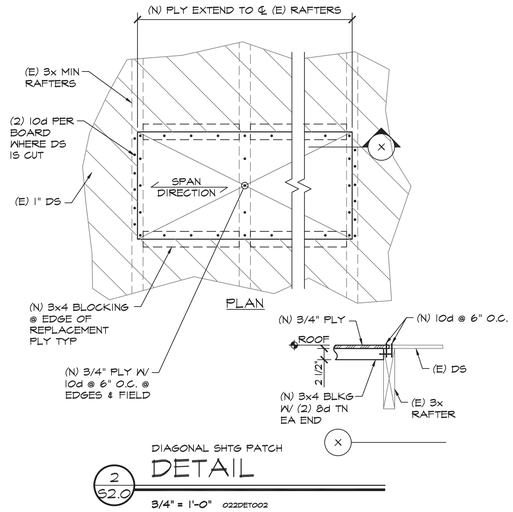
OUTDOOR UNIT ANCHORAGE
7 / S2.0 DETAIL

3/4" = 1'-0" 022DET007_3x_DS



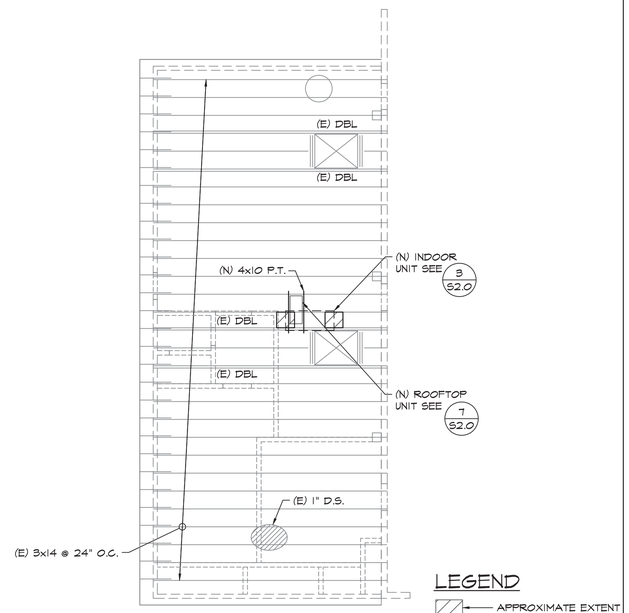
SLEEPER
1 / S2.0 DETAIL

1" = 1'-0" 022DET001



DIAGONAL SHTG PATCH
2 / S2.0 DETAIL

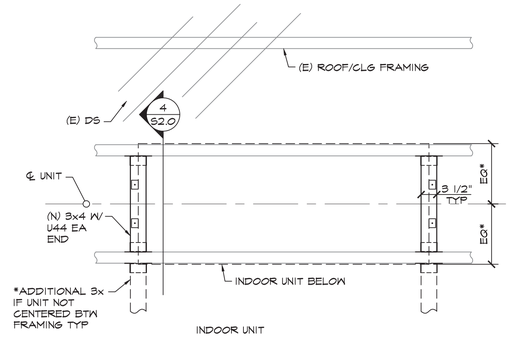
3/4" = 1'-0" 022DET002



KITCHEN
A / S2.0 ROOF FRAMING PLAN

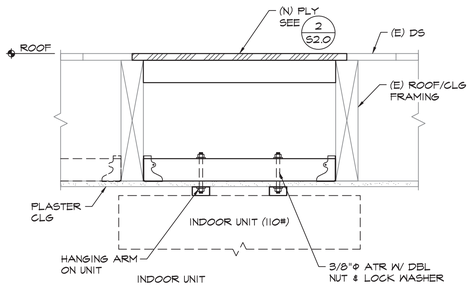
1/8" = 1'-0"

N



INDOOR UNIT
3 / S2.0 DETAIL

3/4" = 1'-0" 022DET003



INDOOR UNIT
4 / S2.0 DETAIL

1 1/2"= 1'-0" 022DET004

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

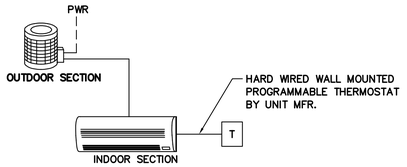
PROJECT #:
2023-025

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT — KIP DAVIS GRUBB — No. C19022 — EXP. 11/30/25 — STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — M 33498 — Exp. 9/30/26 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 10/23/2024

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC

INI	%

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND		AND	Yes	AND		AND		AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

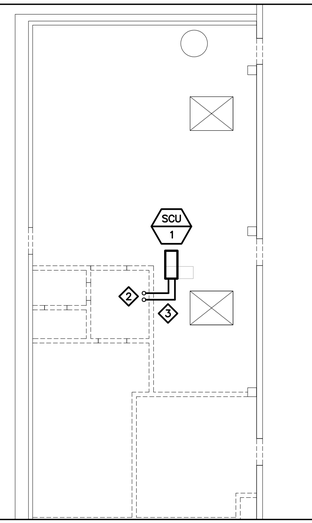
QC	
INI	%

SHEET NOTES:

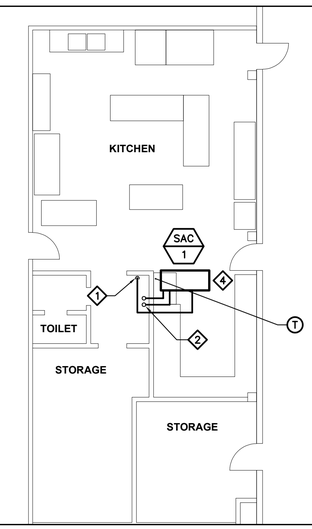
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD(D) ALONG INTERIOR OF WATER HEATER ROOM WALL. OFFSET THRU WALL BELOW SINK AND CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.
4. DEMO (2) PIPE SUPPORTS COMING DOWN THRU CEILING AT LOCATION OF NEW EQUIPMENT.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | PM - DESIGN TEAM
230417.00 | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33458
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

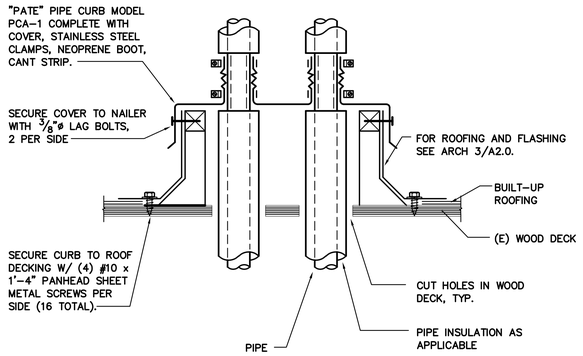
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

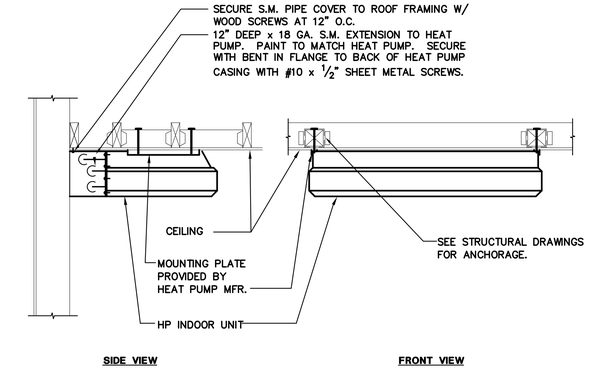
QC
INI | %



PIPE THRU ROOF

SCALE : NONE

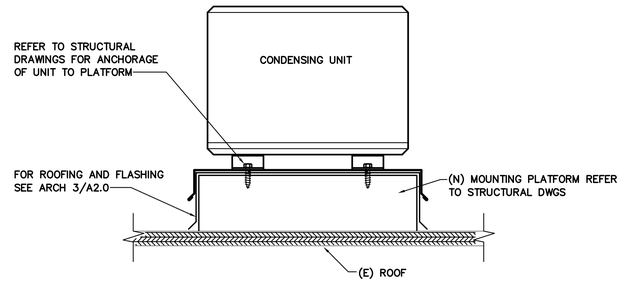
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

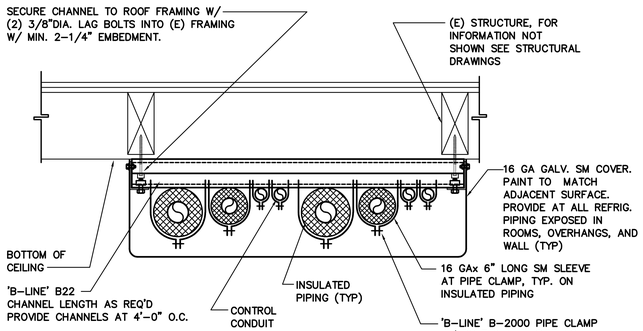
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X / LOCATION / 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 / B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT — KIP DAVIS GRUBB — No. C19022 — EXP. 11/30/25 — STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — NATHAN A. HEARN — No. E 23927 — 3-31-2024 — ELECTRICAL — STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

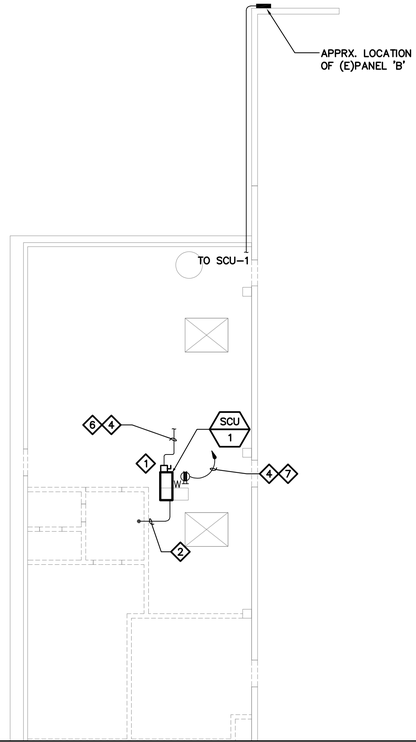
QC
INI	%

SHEET NOTES:

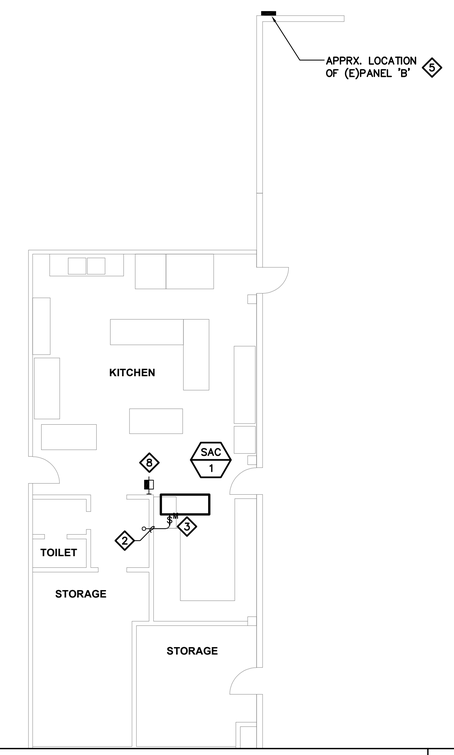
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN SURFACE MOUNT HIGH ON THE WALL AND ELLED DOWN TO PANEL 'B'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND
8. SCHOOL DISTRICT WILL RELOCATE (E) INTRUSION ALARM DETECTOR.



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 1



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

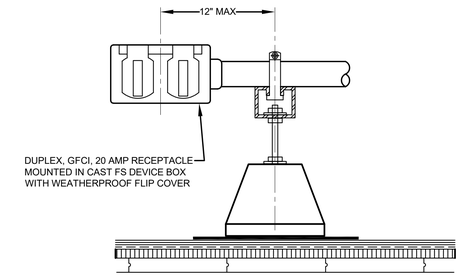
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

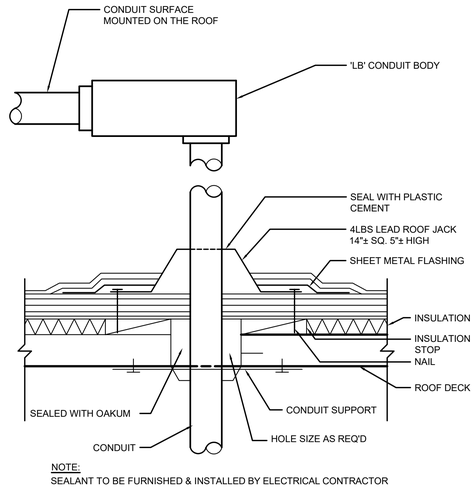


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Van Buren E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL DETAILS

E5.0

WEBER AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

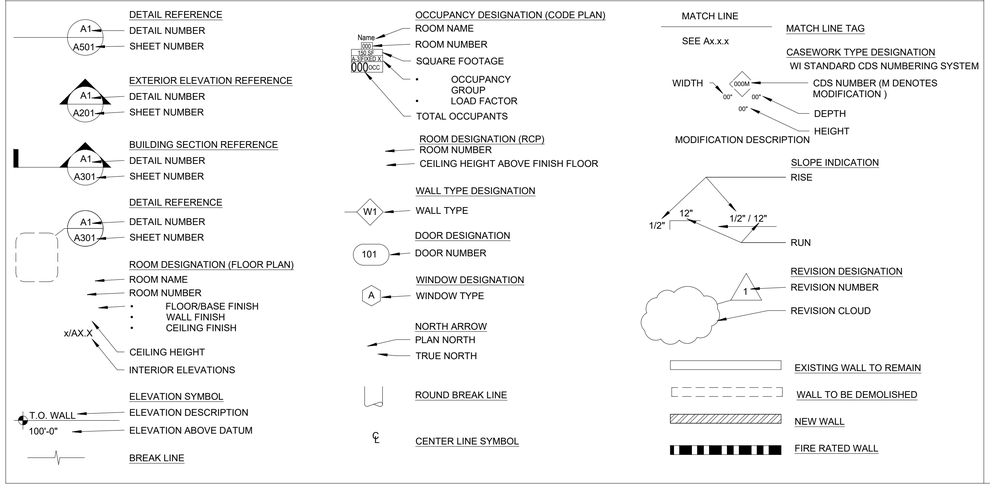
302 West Weber Avenue, Stockton, CA 95203

LIST OF ABBREVIATIONS

A			
A/C	AIR CONDITIONING		
AD	AREA DRAIN		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT		
ALUM	ALUMINUM		
ANOD	ANODIZED		
ARCH	ARCHITECT		
@	AT		
B			
BD	BOARD		
BLDG	BUILDING		
BO	BOTTOM OF		
C			
C	CELSIUS		
CH	COAT HOOK		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		
CG	CORNER GUARD		
CI	CONTINUOUS INSULATION		
CJ	CONTROL JOINT		
CL	CENTER LINE		
CLG	CEILING		
CLO	CLOSET		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONT	CONTINUOUS		
CORR	CORRIDOR		
CT	CERAMIC TILE		
CTJ	CONSTRUCTION JOINT		
CUH	CABINET UNIT HEATER		
D			
D	DEEP		
DEG	DEGREE		
DEMO	DEMOLITION		
DF	DRINKING FOUNTAIN		
DIA	DIAMETER		
DIM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DWGS	DRAWINGS		
E			
E	EXISTING		
EA	EACH		
EJ	EXPANSION JOINT		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR		
EOS	EDGE OF SLAB		
ERD	EXISTING ROOF DRAIN		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EWC	ELECTRICAL WATER COOLER		
EXP	EXPOSED		
EXT	EXTERIOR		
F			
F	FAHRENHEIT		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FDC	FIRE DEPARTMENT CONNECTION		
FD	FLOOR DRAIN		
FEC	FIRE EXTINGUISHER CABINET		
FE	FIRE EXTINGUISHER		
FG	FINISH GRADE		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FLR	FLOOR		
FND	FOUNDATION		
FO	FINISHED OPENING		
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FOW	FACE OF WALL		
FRG	FIBER REINFORCED GYPSUM		
FSP	FIRE STANDPIPE		
FT	FEET		
FV	FIELD VERIFY		
G			
GA	GAUGE		
GALV	GALVANIZED		
GFRC	GLASS-FIBRER-REINFORCED CONCRETE		
GFRG	GLASS-FIBRER-REINFORCED GYPSUM		
GL	GLASS		
GWB	GYPSUM WALL BOARD		
GYP	GYPSUM		
H			
H	HIGH		
HB	HOSE BIBB		
HDR	HEADER		
HM	HOLLOW METAL		
HPT	HIGH POINT		
HR	HOUR		
HT	HEIGHT		
I			
ID	INSIDE DIAMETER; INSIDE DIMENSION		
IN	INCH		
INFO	INFORMATION		
INT	INTERIOR		
J			
JAN	JANITOR		
K	(NOT USED)		
L			
LAB	LABORATORY		
LAV	LAVATORY		
LBS	POUNDS		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LPT	LOW POINT		
M			
MACH RM	MACHINE ROOM		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MIN	MINIMUM		
MO	MASONRY OPENING		
N			
NA	NOT APPLICABLE		
NIC	NOT IN CONTRACT		
NOM	NOMINAL		
NTS	NOT TO SCALE		
O			
OC	ON CENTER		
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION		
OFD	OVERFLOW DRAIN		
OH DR	OVERHEAD DOOR		
OPH	OPPOSITE HAND		
OPP	OPPOSITE		
ORIG	ORIGINAL		
P			
P LAM	PLASTC LAMINATE		
PLAS	PLASTER		
PLUMB	PLUMBING		
PR	PAIR		
PSI	POUNDS PER SQUARE INCH		
PSF	POUNDS PER SQUARE FOOT		
PVC	POLYVINYL CHLORIDE		
Q			
QT	QUARRY TILE		
R			
R	RISER OR RADIUS		
RAD	RADIUS		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
REF	REFRIGERATOR		
REQD	REQUIRED		
REV	REVISION		
RH	RELATIVE HUMIDITY		
RM	ROOM		
RO	ROUGH OPENING		
RTU	ROOF TOP UNIT		
RWL	RAIN WATER LEADER		
S			
S	SMOKE DETECTOR		
SAM	SELF ADHESIVE MEMBRANE		
SCHED	SCHEDULE		
SECT	SECTION		
SIM	SIMILAR		
SPEC	SPECIFICATION		
SS	STAINLESS STEEL		
STD	STANDARD		
STS	SELF TAPPING SCREW		
STRUCT	STRUCTURAL		
T			
T	TREAD		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
TOC	TOP OF CONCRETE		
TOM	TOP OF MASONRY		
TOP	TOP OF PARAPET		
TOS	TOP OF SLAB; TOP OF STEEL		
TOW	TOP OF WALL		
TYP	TYPICAL		
TO	TOP OF		
U			
UL	UNDERWRITER'S LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
V			
VCT	VINYL COMPOSITE TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W/	WITH		
W/O	WITHOUT		
WD	WOOD		
WH	WALL HYDRANT		
WP	WORKING POINT		
WRB	WEATHER RESISTIVE BARRIER		
X,Y,Z	NOT USED		

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite
100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
WEBER H.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

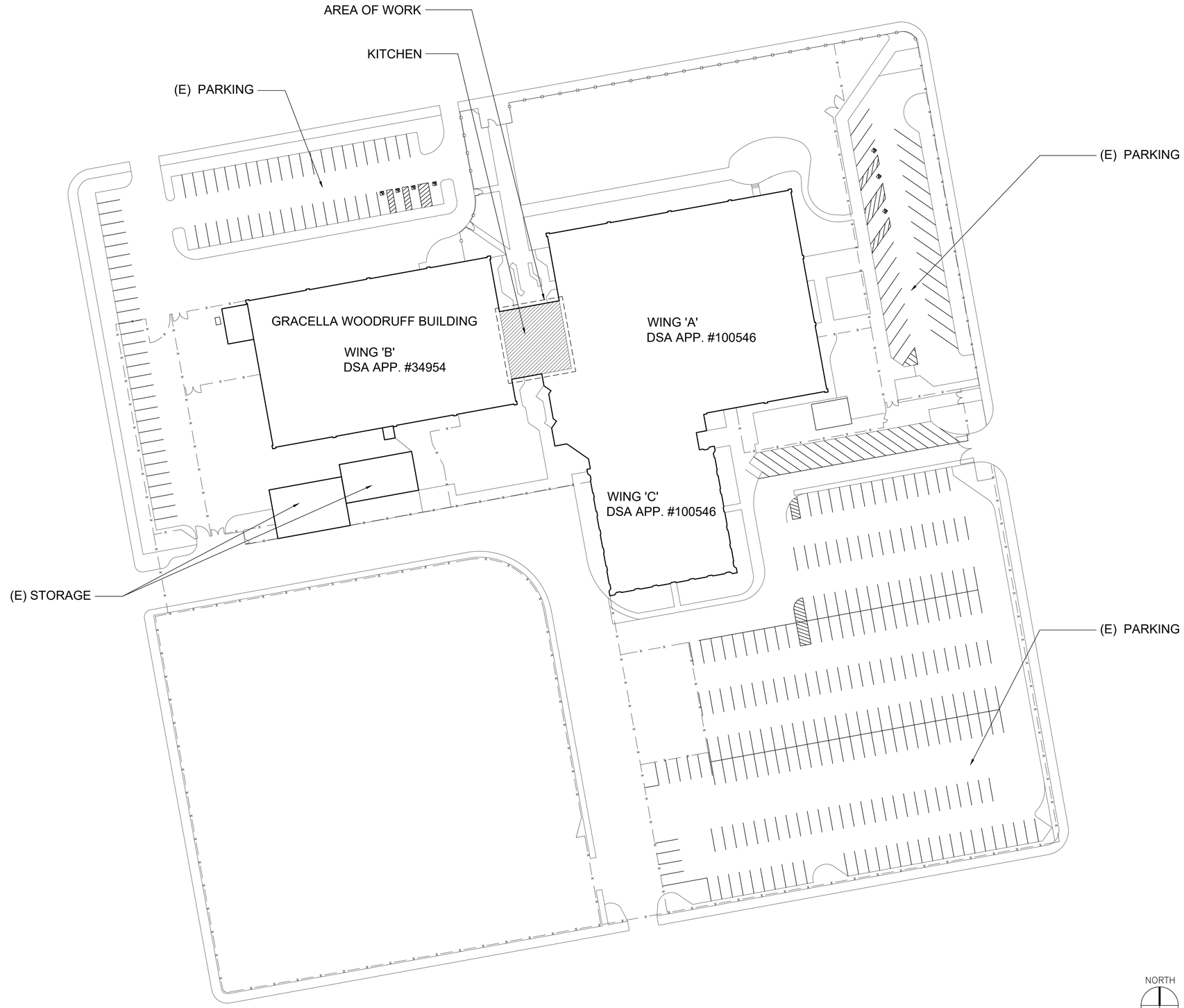
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
WEBER H.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

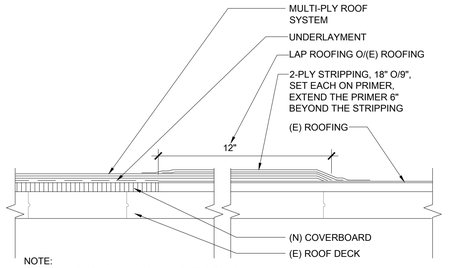
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

A1.0

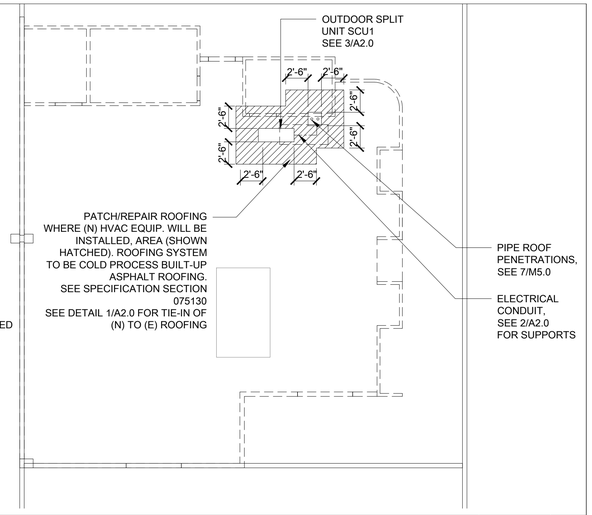


NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

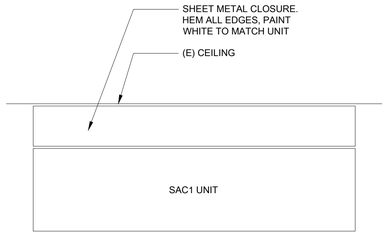
3" = 1'-0" | 1

NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.



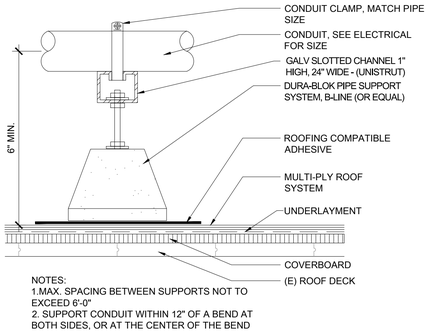
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

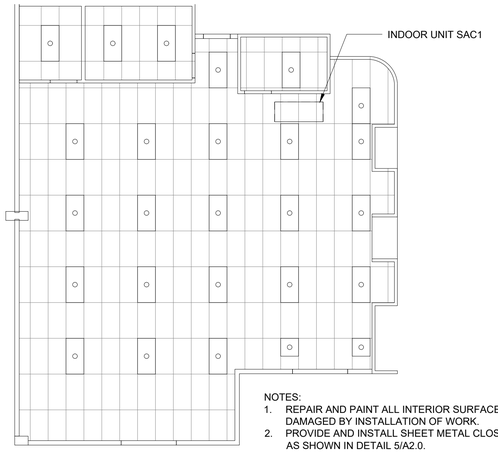
NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

CONDUIT SUPPORT

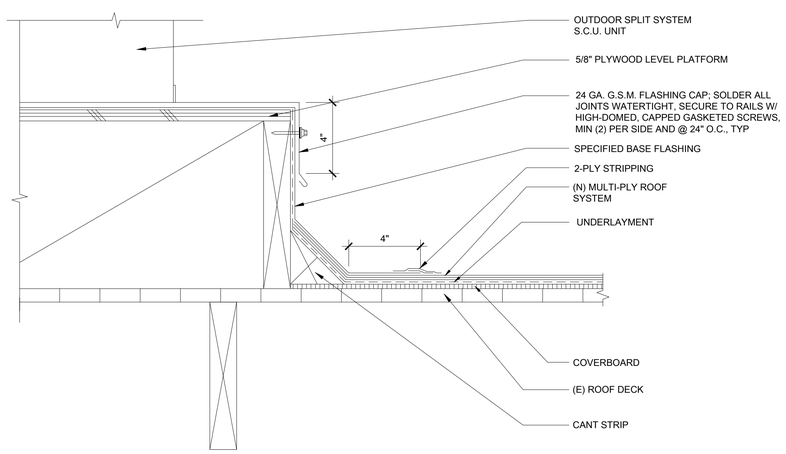
3" = 1'-0" | 2



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

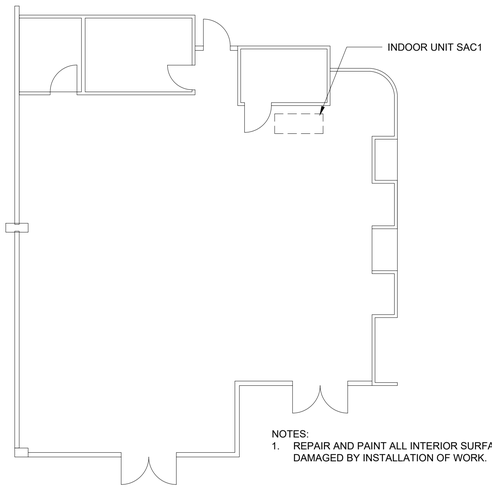
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
WEBER H.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LON POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
BEV	BEVELED	LT WT	LIGHT WEIGHT
BOC	BOTTOM OF CONCRETE	LVL	LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	OWSG	OPEN WEB STEEL GIRDER
COL	COLUMN	OWSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
DF	DOUGLAS FIR	PCC	PREGAST CONCRETE
		PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		POINT
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD		
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING
			TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

SCHEDULE OF SPECIAL INSPECTIONS:

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION AND TESTING PER CBC SECTION 1704A & 1705A. THIS WORK SHALL BE PERFORMED BY A SPECIAL INSPECTOR QUALIFIED TO PERFORM THE TYPES OF INSPECTIONS AND TESTS SPECIFIED HEREIN. THE FREQUENCY OF TESTING SHALL BE IN ACCORDANCE, BUT NOT LIMITED, TO THE CBC TABLE ITEMS LISTED BELOW. DEFICIENCIES SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR. SUMMARY REPORTS SHALL BE DISTRIBUTED WEEKLY TO THE OWNER, ARCHITECT, CONTRACTOR, AND STRUCTURAL ENGINEER. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION AND TESTING.

LEGEND

	R	← REQUIRED
	C	← CONTINUOUS
	P	← PERIODIC
		← NOT PART OF THIS PROJECT
X		← REQUIRED FOR THIS PROJECT

STEEL CONSTRUCTION

MATERIAL VERIFICATION OF STRUCTURAL STEEL:

X	R	MANUFACTURERS' CERTIFIED MILL TEST REPORTS.

MATERIAL VERIFICATION OF WELD FILLER MATERIAL:

X	R	MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED.

INSPECTION OF WELDING:

STRUCTURAL STEEL

X	P	SINGLE-PASS FILLET WELDS ≤ 5/16"

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

STRUCTURAL STEEL:

1. FABRICATION, ERECTION, AND MATERIALS SHALL CONFORM WITH THE AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND 2022 CBC.
2. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   - A. WIDE FLANGE BEAMS & COLUMNS (UNO).....ASTM-A992 (Fy = 50 ksi)
   - B. ANGLES (UNO)..... ASTM-A36
   - C. M, S, C, MC, (UNO) ASTM-A36
   - D. HP, MT, MT & ST .....ASTM-A4922 (Fy = 50 ksi)
   - E. RECTANGULAR HSS SHAPES (UNO)....ASTM-A500 GRADE C (Fy=50 ksi)
   - F. ROUND HSS SHAPES (UNO).....ASTM-A500 GRADE C (Fy = 46 ksi)
   - G. PIPES (UNO).....ASTM-A53, TYPE E OR S, GRADE B (Fy = 35 ksi)
   - H. PLATES, BARS & MISC. (UNO).....ASTM-A36
   - I. ANCHOR RODS (UNO)...ASTM-F1554 (Fy=36ksi)
3. WELDING DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH "AWS". STANDARDS:
   PROVIDE E70XX ELECTRODES FOR ALL WELDS UNO.
   USE ONLY CERTIFIED WELDERS. ALL BUTT WELDS SHALL HAVE COMPLETE PENETRATION. ALL EXPOSED BUTT WELDS SHALL BE GROUND.
4. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
5. HOLES FOR UNFINISHED BOLTS SHALL BE OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
6. USE STANDARD AISC GAGE AND PITCH FOR BOLTS UNLESS NOTED OTHERWISE
7. HIGH STRENGTH BOLTS: 3/4" DIAMETER A325-N TYP UNO.
8. PAINT ALL EXPOSED STEEL W/ PRIMER.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   - B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS
BUILDING LOCATION:

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .594

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\,a_p\,S_{DS}\,W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\,\frac{z}{h}\right)$

USE F_p= 0.29 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

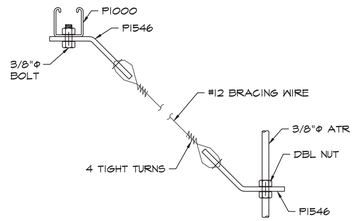
PROJECT #:
2023-021

REVISION #:

DATE:
10/23/2024

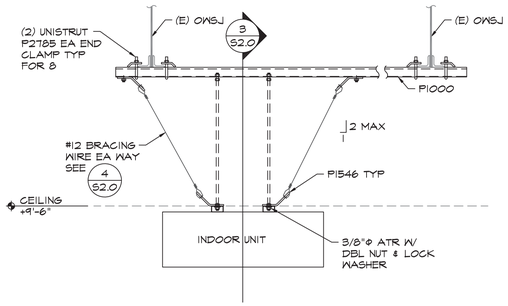
TYPICAL NOTES AND DETAILS

S1.0



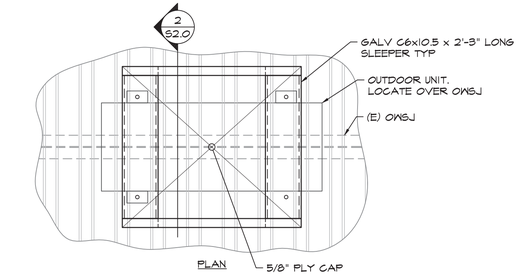
BRACING WIRE
DETAIL
4 / S2.0

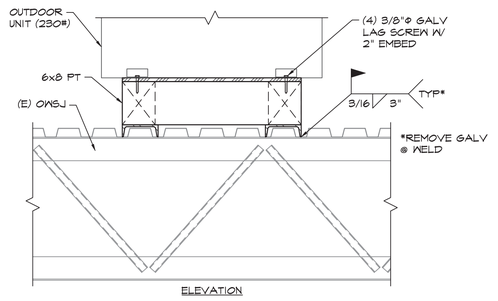
3" = 1'-0" 023DET002



INDOOR UNIT
ANCHORAGE DETAIL
5 / S2.0

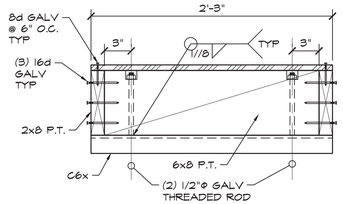
1" = 1'-0" 021DET001





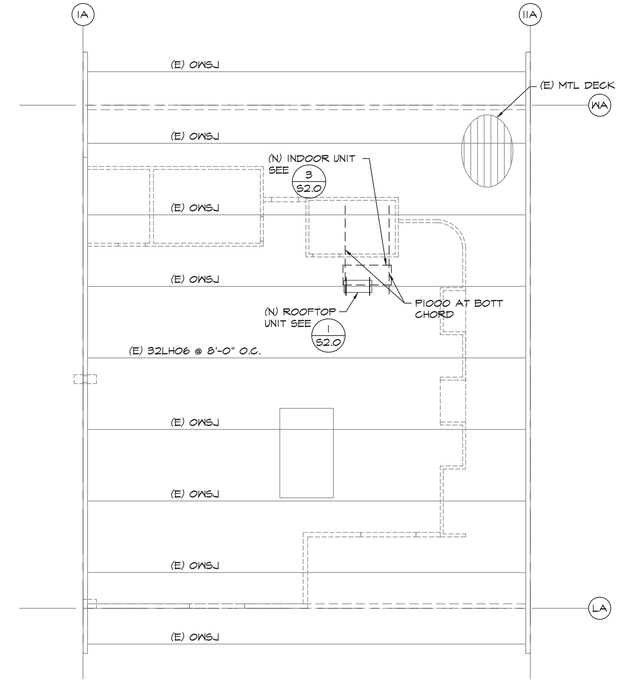
OUTDOOR UNIT
ANCHORAGE DETAIL
1 / S2.0

1" = 1'-0" 027DET001_OWSJ



DETAIL
2 / S2.0

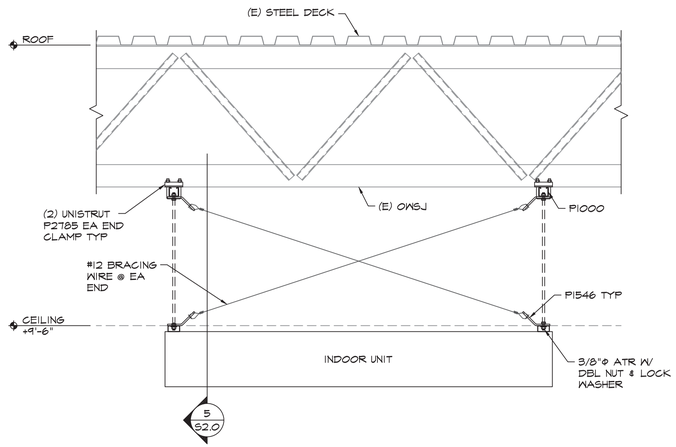
1 1/2"= 1'-0" 027DET003_OWSJ



KITCHEN
ROOF FRAMING PLAN
A / S2.0

1/8" = 1'-0"

N



INDOOR UNIT
ANCHORAGE DETAIL
3 / S2.0

1" = 1'-0" 027DET002

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 CIVIL STATE OF CALIFORNIA

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

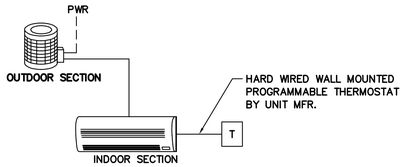
PROJECT #:
2023-021

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

SCALE : NONE

1 / M0.1

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	MCA	MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 / M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 / M5.0	1 / M0.1	①②③④⑤

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY PM - DESIGN TEAM
230417.00 PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M-33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr., Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24
COMPLIANCE

M0.2

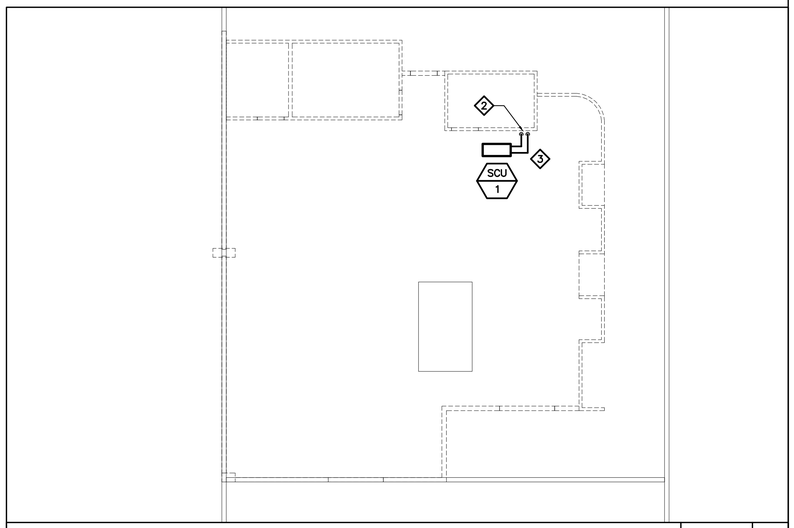
QC	
INI	%

SHEET NOTES:

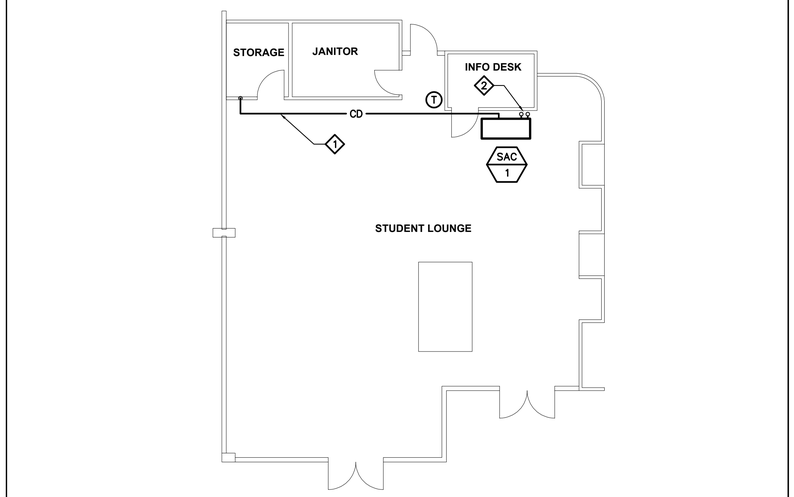
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE T-BAR CEILING AND DOWN THRU WALL. CONNECT 3/4" CD INTO SINK P-TRAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN 1/8" = 1'-0" **1**



HVAC FLOOR PLAN 1/8" = 1'-0" **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

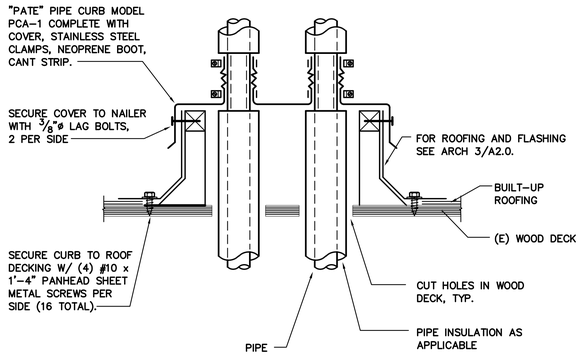
PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

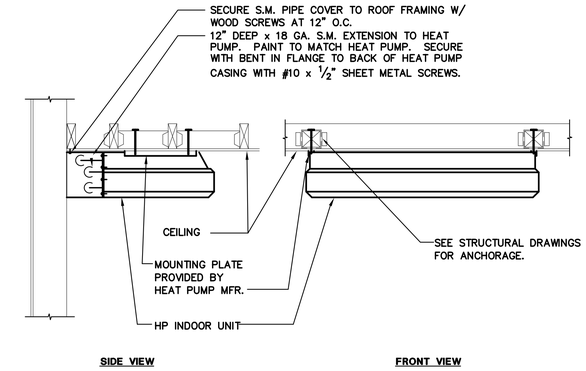
M2.0



PIPE THRU ROOF

SCALE : NONE

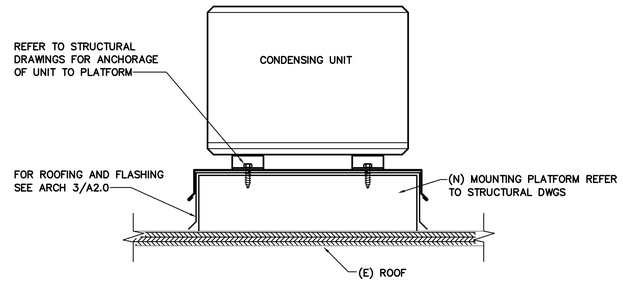
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

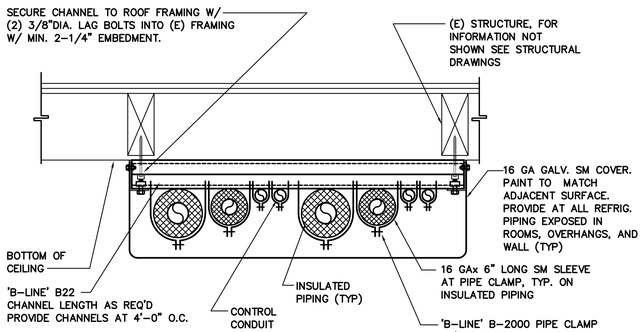
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:

1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 33491
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

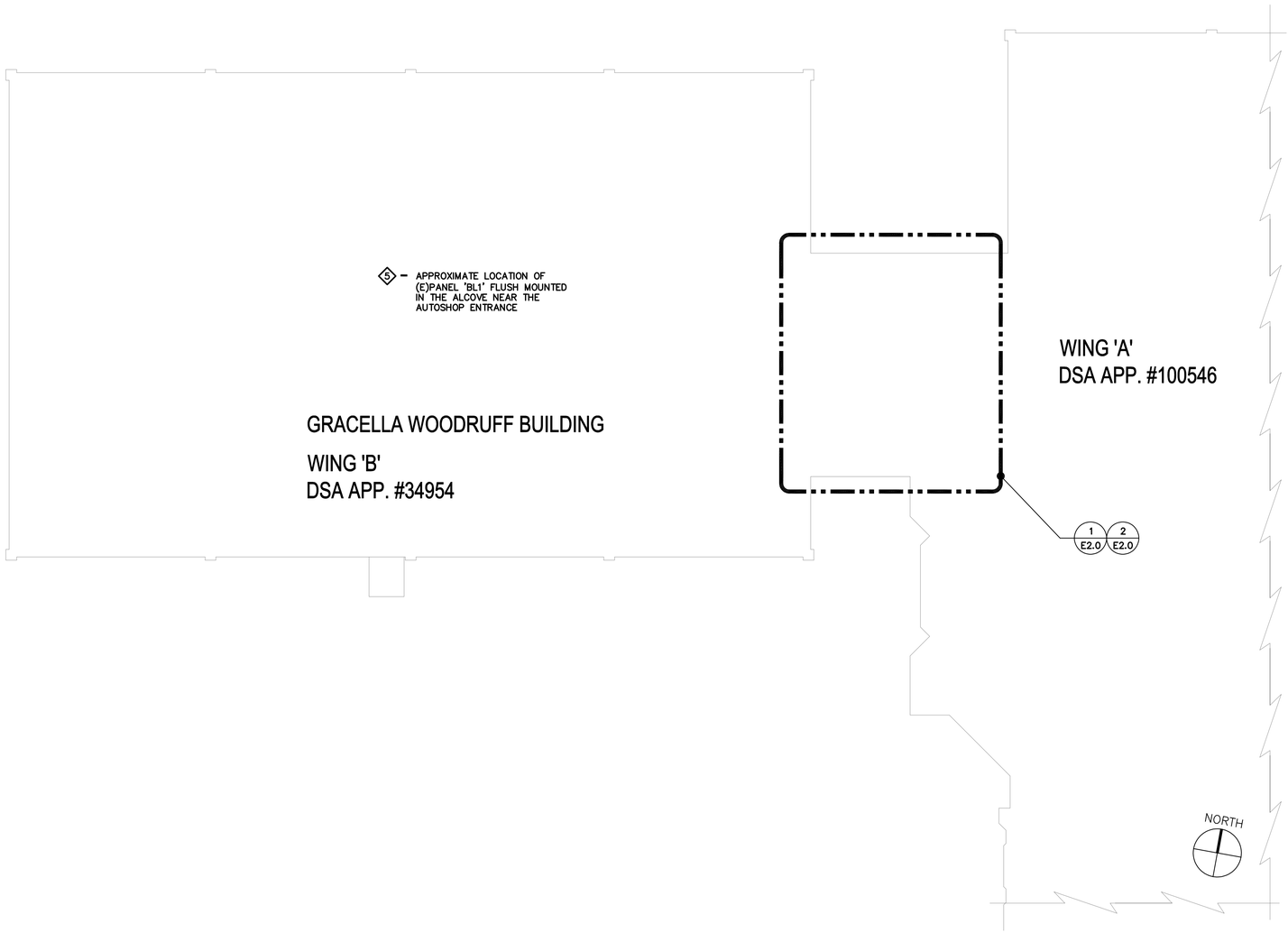
QC	
INI	%

SHEET NOTES:

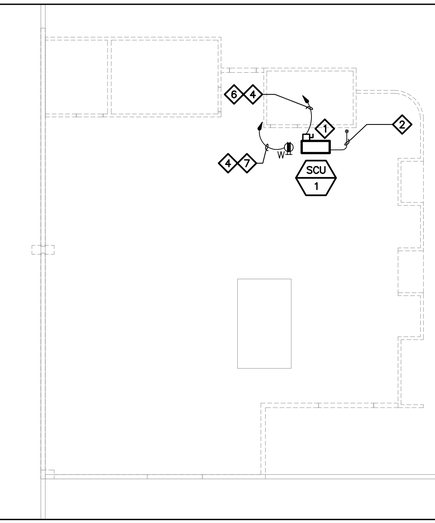
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

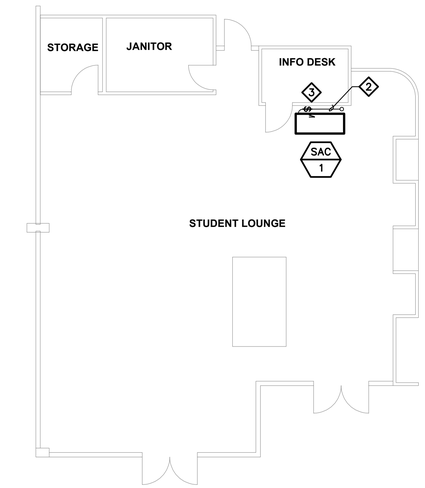
1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'BL1'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1. CUT WALL FOR CONDUIT PENETRATION. PATCH, SEAL AND PAINT TO MATCH EXISTING.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL PANEL LOCATOR PLAN | 1/32" = 1'-0" | 3



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 1



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | 2

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

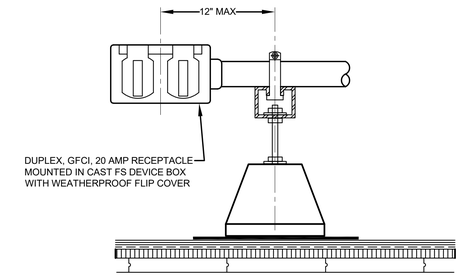
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

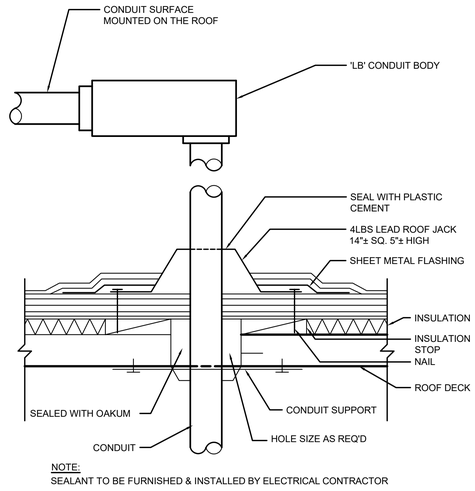


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/23
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Weber H.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0

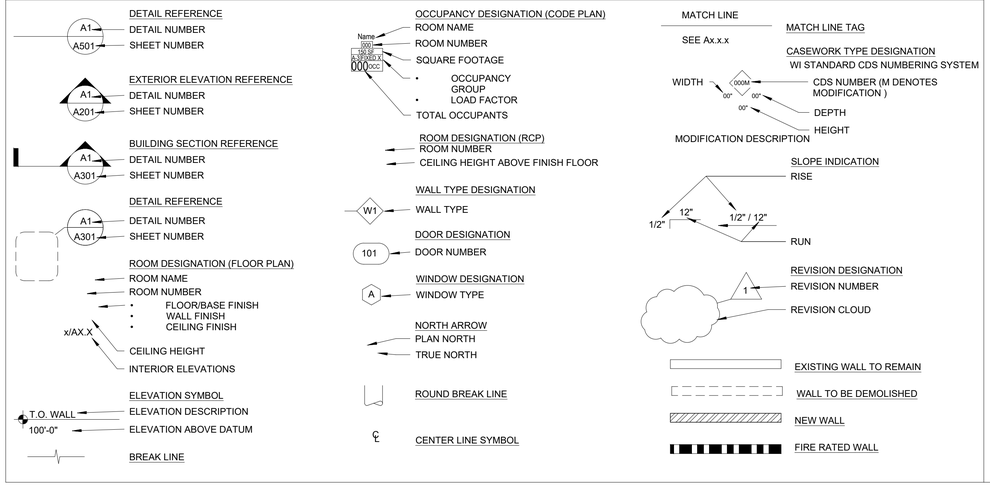
WILHELMINA AUGMENT KITCHEN HVAC
STOCKTON UNIFIED SCHOOL DISTRICT

1107 S. Wagner Ave, Stockton, CA 95215

LIST OF ABBREVIATIONS

A		EQUIP	EQUIPMENT	**J**		RH	RELATIVE HUMIDITY
A/C	AIR CONDITIONING	EWC	ELECTRICAL WATER COOLER	JAN	JANITOR	RM	ROOM
AD	AREA DRAIN	EXP	EXPOSED			RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	EXT	EXTERIOR	**K**	(NOT USED)	RTU	ROOF TOP UNIT
AHU	AIR HANDLING UNIT					RWL	RAIN WATER LEADER
ALUM	ALUMINUM	**F**		**L**			
ANOD	ANODIZED	F	FAHRENHEIT	LAB	LABORATORY	**S**	
ARCH	ARCHITECT	FA	FIRE ALARM	LAV	LAVATORY	S	SMOKE DETECTOR
@	AT	FACP	FIRE ALARM CONTROL PANEL	LBS	POUNDS	SAM	SELF ADHESIVE MEMBRANE
		FDC	FIRE DEPARTMENT CONNECTION			SCHED	SCHEDULE
B				LLH	LONG LEG HORIZONTAL	SECT	SECTION
BD	BOARD	FD	FLOOR DRAIN	LLV	LONG LEG VERTICAL	SIM	SIMILAR
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET	LPT	LOW POINT	SPEC	SPECIFICATION
BO	BOTTOM OF					SS	STAINLESS STEEL
		FE	FIRE EXTINGUISHER	**M**		STD	STANDARD
C		FG	FINISH GRADE	MACH RM	MACHINE ROOM	STS	SELF TAPPING SCREW
C	CELSIUS	FHC	FIRE HOSE CABINET	MAX	MAXIMUM	STRUCT	STRUCTURAL
CH	COAT HOOK	FIN	FINISH	MFR	MANUFACTURER		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FLR	FLOOR	MECH	MECHANICAL	**T**	
		FND	FOUNDATION	MEZZ	MEZZANINE	T	TREAD
CG	CORNER GUARD	FO	FINISHED OPENING	MIN	MINIMUM	TEL	TELEPHONE
CI	CONTINUOUS INSULATION	FOC	FACE OF CONCRETE	MO	MASONRY OPENING	TEMP	TEMPORARY
CJ	CONTROL JOINT	FOM	FACE OF MASONRY			THK	THICK
CL	CENTER LINE	FOS	FACE OF STUD	**N**		TOC	TOP OF CONCRETE
CLG	CEILING	FOW	FACE OF WALL	NA	NOT APPLICABLE	TOM	TOP OF MASONRY
CLO	CLOSET	FRG	FIBER REINFORCED GYPSUM	NIC	NOT IN CONTRACT	TOP	TOP OF PARAPET
CLR	CLEAR	FSP	FIRE STANDPIPE	NOM	NOMINAL	TOS	TOP OF SLAB; TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	FT	FEET	NTS	NOT TO SCALE	TOW	TOP OF WALL
COL	COLUMN	FV	FIELD VERIFY			TYP	TYPICAL
CONC	CONCRETE			**O**		TO	TOP OF
CONT	CONTINUOUS	**G**		OC	ON CENTER	**U**	
CORR	CORRIDOR	GA	GAUGE	OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION	UL	UNDERWRITER'S LABORATORIES
CT	CERAMIC TILE	GALV	GALVANIZED			UNO	UNLESS NOTED OTHERWISE
CTJ	CONSTRUCTION JOINT	GFRC	GLASS-FIBRER-REINFORCED CONCRETE	OFD	OVERFLOW DRAIN		
CUH	CABINET UNIT HEATER			OH DR	OVERHEAD DOOR	**V**	
		GFRG	GLASS-FIBRER-REINFORCED GYPSUM	OPH	OPPOSITE HAND	VCT	VINYL COMPOSITE TILE
D		GL	GLASS	OPP	OPPOSITE	VERT	VERTICAL
D	DEEP	GWB	GYPSUM WALL BOARD	ORIG	ORIGINAL	VEST	VESTIBULE
DEG	DEGREE	GYP	GYPSUM	**P**		VIF	VERIFY IN FIELD
DEMO	DEMOLITION			P LAM	PLASTC LAMINATE		
DF	DRINKING FOUNTAIN	**H**		PLAS	PLASTER	**W**	
DIA	DIAMETER	H	HIGH	PLUMB	PLUMBING	W/	WITH
DIM	DIMENSION	HB	HOSE BIBB	PR	PAIR	W/O	WITHOUT
DN	DOWN	HDR	HEADER	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DS	DOWNSPOUT	HM	HOLLOW METAL	PSF	POUNDS PER SQUARE FOOT	WH	WALL HYDRANT
DWGS	DRAWINGS	HPT	HIGH POINT	PVC	POLYVINYL CHLORIDE	WP	WORKING POINT
		HR	HOUR			WRB	WEATHER RESISTIVE BARRIER
E		HT	HEIGHT	**Q**			
E	EXISTING			QT	QUARRY TILE	X,Y,Z	NOT USED
EA	EACH	**I**					
EJ	EXPANSION JOINT	ID	INSIDE DIAMETER; INSIDE DIMENSION	**R**			THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM			R	RISER OR RADIUS		
EL	ELEVATION	IN	INCH	RAD	RADIUS		
ELEC	ELECTRICAL	INFO	INFORMATION	RCP	REFLECTED CEILING PLAN		
ELEV	ELEVATOR	INT	INTERIOR	RD	ROOF DRAIN		
EOS	EDGE OF SLAB			REF	REFRIGERATOR		
ERD	EXISTING ROOF DRAIN			REQD	REQUIRED		
EQ	EQUAL			REV	REVISION		

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2003
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

INSTALL SPLIT HVAC SYSTEM, PIPING, AND ELECTRICAL AS SHOWN ON THE APPROVED DOCUMENTS AND SPECIFICATIONS.

PROJECT TEAM

OWNER
STOCKTON UNIFIED SCHOOL DISTRICT

MONIQUE ORR
SUSD PLANNING TECH
1944 EI PINAL DRIVE
STOCKTON, CA 95205
209-933-7045 X2828

ARCHITECT
COMMUNITY ARCHITECTURE.INC
3701 BUSINESS DRIVE,SUITE 200
SACRAMENTO, CA 95820

KIP GRUBB
ARCHITECT
(916)365-9656 ext.1002
kip@commarch.net

CHARLES DANDY
PROJECT ARCHITECT
(916)365-9658
charles@commarch.net

STRUCTURAL ENGINEER
3701 BUSINESS DRIVE
SACRAMENTO, CA 95820

BRAD ROLLINS
PRINCIPAL
(916) 452-8200
brad@point2se.com

MECHANICAL ENGINEER
11020 Sun Center Drive, Suite 100Rancho Cordova, CA 95670

MIKE MINGE
PRINCIPAL
(916) 851-3528
(916) 956-6787
MMinge@capital-engineering.com

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
WILHELMINA HENRY E.S. AUGMENT KITCHEN HVAC
STOCKTON USD

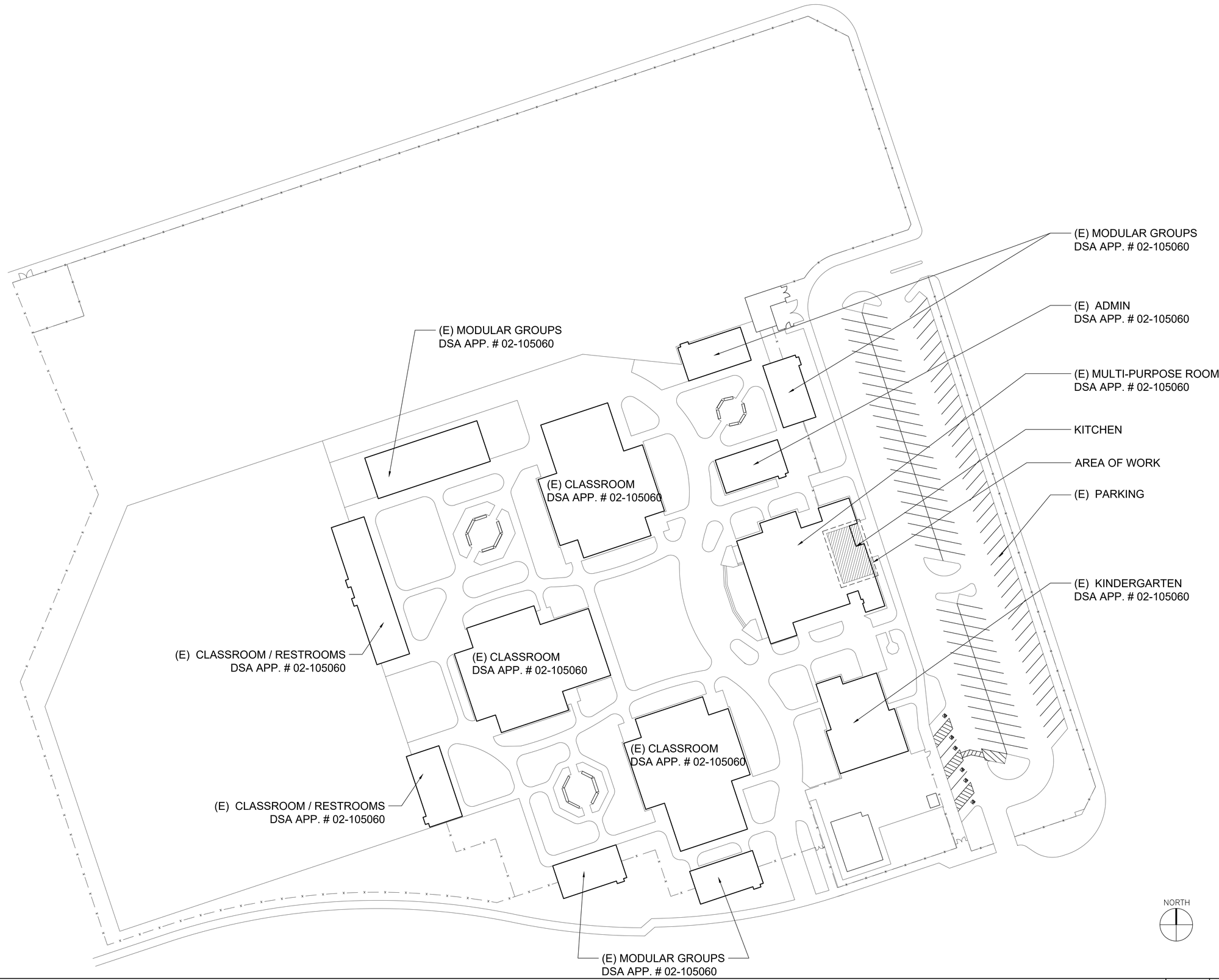
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

COVER SHEET

G0.1



SITE PLAN | 1" = 40'-0" | 1

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
WILHELMINA HENRY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

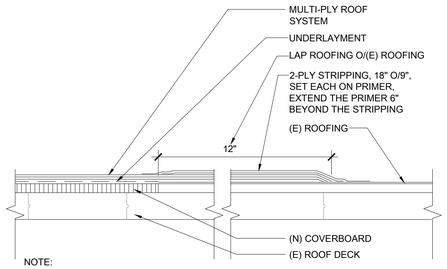
PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

SITE PLAN

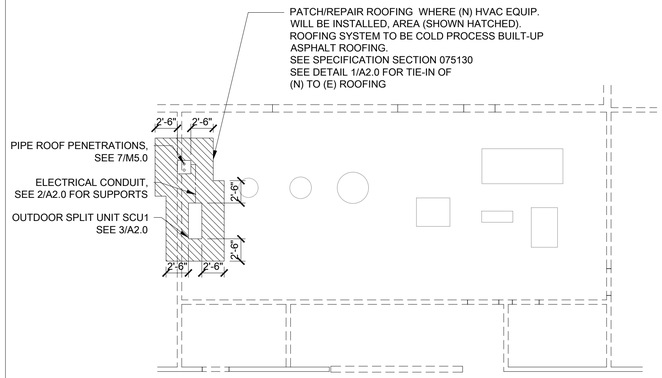
A1.0



NOTE:
CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME (E) ROOFING BELOW PATCH AND 6" BEYOND CAP SHEET

NEW TO EXISTING ROOFING TIE-IN

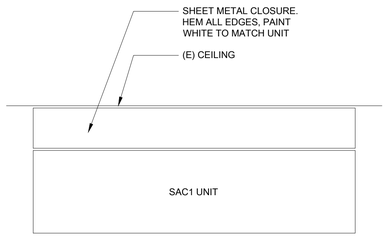
3" = 1'-0" | 1



NOTES:
1. REMOVE (E) ROOFING UNDER AND BEYOND EDGE OF (N) MECHANICAL EQUIP. CURBS AS SHOWN.
2. CLEAN (E) ROOFING AS REQUIRED TO PROVIDE A SOLID MATERIAL FOR PRIMER ADHESION, PRIME BELOW PATCH AND 6" BEYOND CAP SHEET.
3. REPAIR & PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF NEW WORK.

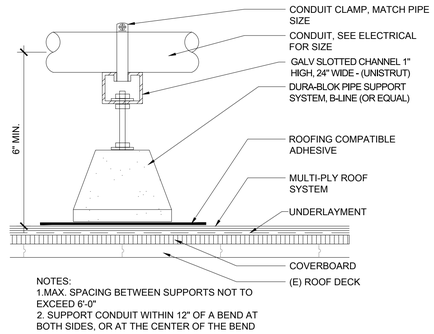
KITCHEN ROOF PLAN

1/8" = 1'-0" | 1



CLOSURE PANEL

NTS | 5



NOTES:
1.MAX. SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0"
2. SUPPORT CONDUIT WITHIN 12" OF A BEND AT BOTH SIDES, OR AT THE CENTER OF THE BEND

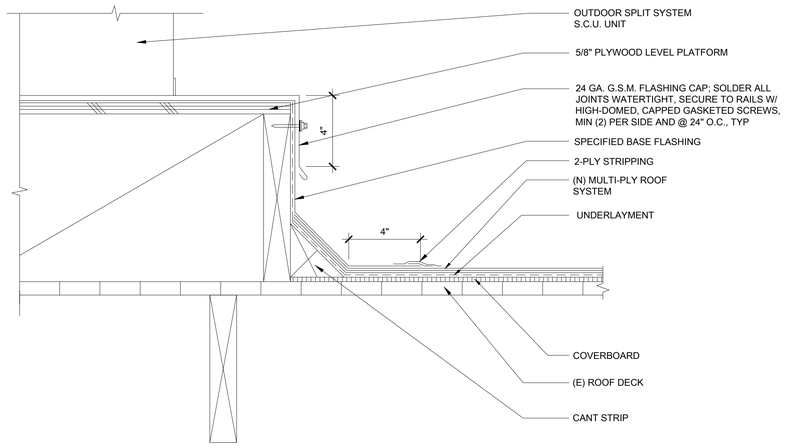
CONDUIT SUPPORT

3" = 1'-0" | 2

NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.
2. PROVIDE AND INSTALL SHEET METAL CLOSURE AS SHOWN IN DETAIL 5/A2.0.

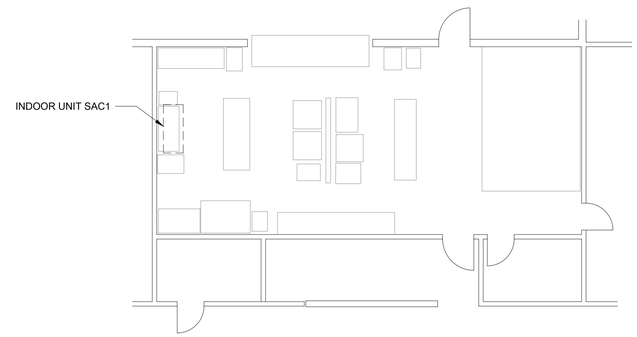
KITCHEN REFLECTED CEILING PLAN

1/8" = 1'-0" | 2



OUTDOOR SPLIT UNIT MOUNTING

3" = 1'-0" | 3



NOTES:
1. REPAIR AND PAINT ALL INTERIOR SURFACES DAMAGED BY INSTALLATION OF WORK.

KITCHEN FLOOR PLAN

1/8" = 1'-0" | 3

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

PROJECT TITLE:
WILHELMINA HENRY E.S.
AUGMENT KITCHEN
HVAC
STOCKTON USD

PROJECT #:
2023-005.00

REVISION #:

DATE:
10/23/2024

ROOF PLAN, FLOOR PLAN, REFLECTED CEILING PLAN, DETAILS

A2.0

STRUCTURAL ABBREVIATIONS

@	AT	LFRS	LATERAL FORCE RESISTING SYTEM
AB	ANCHOR BOLTS		
AC	ASPHALTIC CONCRETE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
		LP	LOW POINT
BN	BOUNDARY NAILING	LS	LAG SCREW
		LT WT	LIGHT WEIGHT
BEV	BEVELED	LVL	LAMINATED VENEER LUMBER
BOC	BOTTOM OF CONCRETE		
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
		NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	NSG	NON SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CMU	CONCRETE MASONRY UNIT	ONSG	OPEN WEB STEEL GIRDER
COL	COLUMN	ONSJ	OPEN WEB STEEL JOIST
CONC	CONCRETE		
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS		
		PCC	PRECAST CONCRETE
DF	DOUGLAS FIR	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EF	EACH FACE		
EW	EACH WAY	PT	PRESSURE TREATED
EJ	EXPANSION JOINT		
EOS	EDGE OF SLAB	PW	PLYWOOD
EN	EDGE NAILING		
ES	EACH SIDE	R	RADIUS
FA	FRAMING ANCHOR	SAD	SEE ARCHITECTURAL DRAWINGS
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SDST	SELF DRILLING SELF TAPPING
FLG	FLANGE		
FN	FIELD NAILING	SIM	SIMILAR
FOC	FACE OF CONCRETE	SCJ	SLIP CONTROL JOINT
		SLH	SHORT LEG HORIZONTAL
FOM	FACE OF MASONRY	SLV	SHORT LEG VERTICAL
FOS	FACE OF STUD		
		SOG	SLAB ON GRADE
GLB	GLUE LAMINATED BEAM	SP	STRUCTURAL PLYWOOD
GSM	GALVANIZED SHEET METAL	SS	STAINLESS STEEL
GT	GIRDER TRUSS	T24	TITLE 24 CALIFORNIA CODE
HAS	HEADED ANCHOR STUD	TOC	TOP OF CONCRETE
HDG	HOT DIPPED GALVANIZED	TOF	TOP OF FOOTING TOP OF FRAMING
HP	HIGH POINT	TOM	TOP OF MASONRY
HSB	HIGH STRENGTH BOLT	T.O. SLAB	TOP OF SLAB
		TOS	TOP OF STEEL
HSS	HOLLOW STRUCTURAL SECTION	TOW	TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER		
		WS	WATER STOP
JT	JACK TRUSS	WWF	WELDED WIRE FABRIC
		WPJ	WEAKENED PLANE JOINT

TABLE No. 2304.10.2 FASTENING SCHEDULE.

CONNECTION	FASTENING	LOCATION
1. BLKG. BTWN CLG JOISTS, TRUSSES OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL EA END
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2"x0.131")	TOENAIL, EA JOIST
3. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2"x0.162")	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTERS (SEE SEC. 2308.7.3.1, TABLE 2308.7.3.1)	SEE TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148")	FACE NAIL
6. RAFTER OR ROOF TRUSS OR PLATE (SEE SEC. 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3"x0.148")	TOENAIL
7. JACK RAFTER TO HIP OR VALLEY OR ROOF RAFTER TO 2x RIDGE BEAM	3-10d COMMON (3"x0.148") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
8. STUD TO STUD	16d COMMON (3 1/2"x0.162") @ 24" O.C.	FACE NAIL
9. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162")	16" O.C. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
14. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
15. BOTT PL TO JOIST, RIM JOIST, BAND JOIST OR BLKG.	2-16d COMMON (3 1/2"x0.162") @ 16" O.C.	TYP. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162")	TOENAIL END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3 1/2"x0.162")	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
19. 1" DIAG. BRACE TO EA. STUD AND PLATE	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" AND WIDER SHEATHING TO EA. BEARING	3-8d COMMON (2 1/2"x0.131")	FACE NAIL
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d COMMON (2 1/2"x0.131")	TOENAIL
23. RIM JOISTBAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR FRMS BELOW	8d COMMON (2 1/2"x0.131") @ 6" O.C.	TOENAIL
24. 1"x6" SUBFLOOR OR LESS TO EA. JOIST	2-8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS	16d COMMON (3 1/2"x0.162")	@ EA. BEARING FACE NAIL
27. BUILT-UP GIRDER AND BEAMS (2" LUMBER LAYERS)	20d COMMON (4"x0.192") @ 32" O.C. 2-20d COMMON (4"x0.192")	FACE NAIL @ TOP & BOT. STAGG. ON OPP. SIDES FACE NAIL @ ENDS & @ EA. SPLICE
28. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON (3 1/2"x0.162")	FACE NAIL @ EA. JOIST OR RAFTER
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2"x0.162")	END NAIL
30. BRIDGING OR BLOCKING TO JOIST OR STUD	2-8d COMMON (2 1/2"x0.131")	TOENAIL EA. END
31. WOOD STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [C] SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" AND LESS 6d COMMON 19/32" TO 3/4" 8d COMMON 7/8" TO 1 1/4" 10d COMMON 3/4" OR LESS 8d COMMON 7/8" TO 1" 8d COMMON 1 1/8" TO 1 1/4" 10d COMMON	6" @ EDGES 12" @ INTERMEDIATE SUPPORTS
34. FIBERBOARD SHEATHING[C,D]	1/2" THICK 1 1/2" GALV ROOFING NAIL 25/32" THICK 1 3/4" GALV ROOFING NAIL	
39. PANEL SIDING (TO FRAMING)[C]	1/2" OR LESS 6d COMMON 5/8" 8d COMMON	
42. INTERIOR PANELING	1/4" 4d CASING (1 1/2"x0.080") 3/8" 6d CASING (2"x0.099")	

A. COMMON NAILS SHALL BE USED.
B. FOR ITEMS 31-42 ALTERNATIVE NAILING IS ACCEPTABLE. SEE CBC TABLE 2304.10.2 FOR OPTIONS.
C. NAILS SPACED AT 6" AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
D. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
E. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

PREFABRICATED WOOD FRAMING MEMBERS

(SHOP DRAWINGS TO BE SUBMITTED PRIOR TO FABRICATION)

1. PREFABRICATED MEMBERS IDENTIFIED HEREIN ARE BASED ON PRODUCTS MANUFACTURED FOR "RedBuilt LLC" AND SHALL BE USED AS THE MINIMUM REQUIREMENT. SUBSTITUTIONS OF ALTERNATE PRODUCTS SHALL HAVE EQUAL OR GREATER PROPERTIES AND CAPACITIES AND MUST HAVE ALL APPROPRIATE APPROVALS.
2. MEMBERS INDICATED AS "I JOIST" SHALL CONSIST OF LVL (LAMINATED VENEER LUMBER) TOP AND BOTTOM CHORDS AND OSB (ORIENTED STRAND BOARD) WEBS IN CONFORMANCE WITH ICC ES ESR -2994 DEPTH AND SERIES AS INDICATED ON PLANS.
3. MEMBERS INDICATED AS "LVL", "LSL", OR "PSL" SHALL MEET MINIMUM PROPERTIES AS SET OUT BELOW:

LVL:	LSL:	PSL:
E = 2.0E6 PSI	E = 1.55E6 PSI	E = 2.0E6 PSI
Fb = 2600 PSI	Fb = 2325 PSI	Fb = 2900 PSI
Fv = 285 PSI	Fv = 525 PSI	Fv = 290 PSI

4. I JOIST BLOCKING TO BE OF SAME MATERIAL AS I JOISTS, UNO.
5. WEB STIFFENERS REQUIRED AT ALL END SUPPORTS, HANGERS AND INTERMEDIATE SUPPORTS.
6. FULL DEPTH I JOIST BLOCKING OR BRIDGING REQUIRED FOR ALL ROOF RAFTERS AT 10'-0" O.C. AND ALL FLOOR JOISTS AT 8'-0" O.C. FOR RAFTER OR JOIST SPAN OF 16'-0" OR MORE.
7. FULL DEPTH BLOCKING REQUIRED BETWEEN RAFTERS OR JOISTS AT ALL SUPPORTS.
8. DOUBLE ALL JOISTS UNDER AND PARALLEL TO PARTITION WALLS.

WOOD:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   DOUGLAS FIR- LARCH — WESTERN LUMBER GRADING RULES WWPA.
   PLYWOOD — U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
2. MINIMUM GRADES SHALL BE:
   STRUCTURAL FRAMING — DF#1 TYPICAL
   MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
   STRUCTURAL PLYWOOD (UNO) — ROOF PLYWOOD: 3/4" APA RATED STRUCT 1 SHEATHING, 5 PLY, 48/24, EXPOSURE 1.
3. CUTTING OF WOOD JOISTS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FIFTH THE JOIST DEPTH FROM THE TOP, & LOCATED NOT FARTHER FROM THE END THAN THREE TIMES THE JOIST DEPTH.
4. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
5. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN THE ROOT OF THE THREAD.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
7. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .195"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .391"

8. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
9. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
10. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
11. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
    2x & 3x MEMBERS — U HANGERS
    4x MEMBERS — HU HANGERS
    6x MEMBERS — HUTF HANGERS
    I JOIST MEMBERS — BA HANGERS
12. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS.
13. WOOD SYMBOLS:
    ⊠ CONTINUOUS ▨ BLOCKING
14. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

15. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
16. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
t' ≤ 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	

EXISTING CONSTRUCTION

1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
8. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
9. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
4. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
5. SAFETY NOTE:
   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
   B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
7. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES, IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF . . . . . 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC GUST)= 93 MPH
RISK CATEGORY: ☐I ■II ☐III ☐IV
EXPOSURE C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (GCpi)
■ ENCLOSED	+0.18, -0.18
☐ PARTIALLY ENCLOSED	+0.55, -0.55
☐ PARTIALLY OPEN	+0.18, -0.18
☐ OPEN	0.00

GUST FACTOR G = 0.85
FORCE COEFFICIENT C_f = 1.4
VELOCITY PRESSURE q_h = 16.0 PSF

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
☐ A	☐ I	☐ A	■ 1.00
☐ B	■ II	☐ B	☐ 1.50
☐ C	☐ III	☐ C	
■ D	☐ IV	■ D	
☐ E		☐ E	
☐ F		☐ F	

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: S_{DS} = .569

COMPONENT COEFFICIENTS
ap= 1.0
Rp= 2.5
Ω= 2.0
$\frac{z}{h}$ = 1.0

ANALYSIS PROCEDURE: DESIGN FORCE $F_p = \frac{0.4\, a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1+2\frac{z}{h}\right)$

USE F_p= .029 W_p

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Wilhelmina Henry E.S.
Augment Kitchen HVAC
Stockton USD

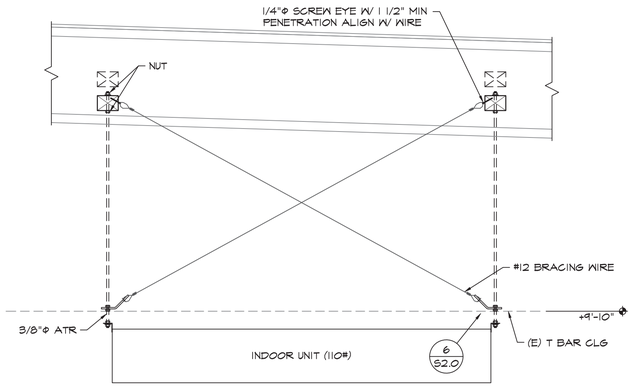
PROJECT #:
2023-029

REVISION #:

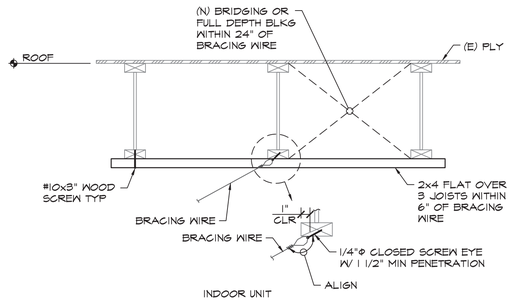
DATE:
10/23/2024

TYPICAL NOTES AND DETAILS

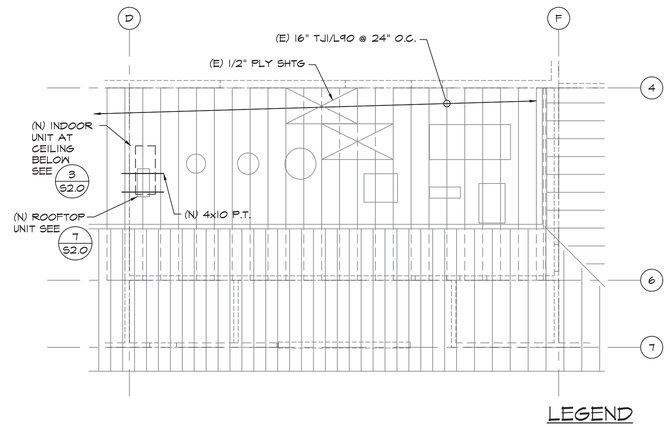
S1.0



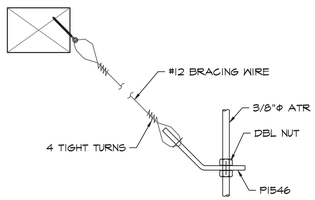
INDOOR UNIT
DETAIL
5 / S2.0
1" = 1'-0" 024DET001



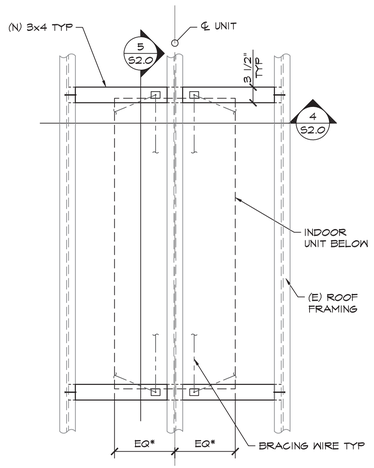
INDOOR UNIT
DETAIL
2 / S2.0
1" = 1'-0" 024DET002



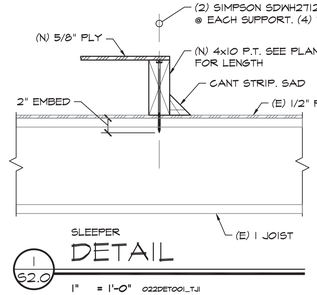
KITCHEN
ROOF FRAMING PLAN
A / S2.0
1/8" = 1'-0"



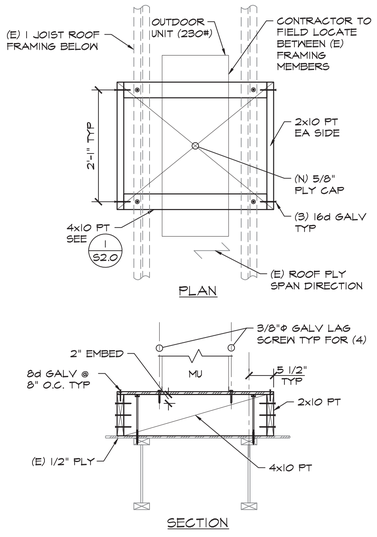
BRACING WIRE
DETAIL
6 / S2.0
3" = 1'-0" 023DET002



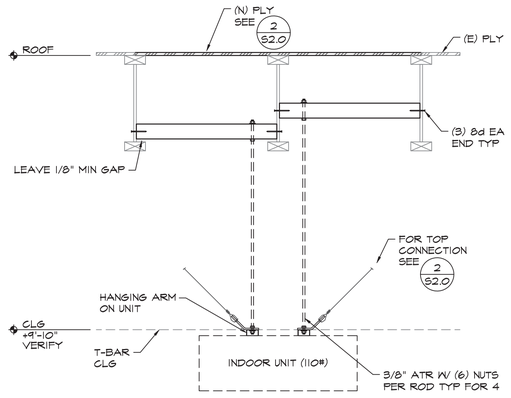
INDOOR UNIT
DETAIL
3 / S2.0
3/4" = 1'-0" 022DET003_TJI



DETAIL
1 / S2.0
1" = 1'-0" 022DET001_TJI



OUTDOOR UNIT ANCHORAGE
DETAIL
7 / S2.0
3/4" = 1'-0" 022DET007_TJI



INDOOR UNIT
DETAIL
4 / S2.0
1" = 1'-0" 022DET004_TJI

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DR SUITE 100
SACRAMENTO, CA. 95820
(916)-452-8200
(916)-452-8212 (FAX)

10/23/23

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS 2837 STRUCTURAL STATE OF CALIFORNIA

PROJECT TITLE:
Wilhelmina Henry E.S.
Augment Kitchen HVAC
Stockton USD

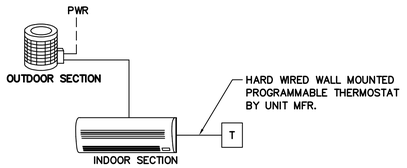
PROJECT #:
2023-029

REVISION #:

DATE:
10/23/2024

PLAN AND DETAILS

S2.0



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

SHPI/SHPO UNIT CONTROL DIAGRAM

1 / M0.1

SCALE : NONE

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CLG	CEILING
—— CD ——	CD	CONDENSATE DRAIN
f	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	(D)	DOWN
ø	DIA	DIAMETER , PHASE
	(E), EXIST	EXISTING
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	(N)	NEW
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	(R)	RISE
	SA	SUPPLY AIR
Tx	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
5. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE (OWNER FURNISHED/CONTRACTOR INSTALLED)

UNIT	SERVES	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	ESP (IN. W.G.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"CARRIER" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIG. PIPE RS (DIA.)	REFRIG. PIPE RL (DIA.)	ELECTRICAL DATA VOLT/PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	SEER	EER	COP	HSPF	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI 1	KITCHEN	40MBFQ58	1385	N/A	208/1	1.48	110	1 M5.0	SHPO 1	38MBRQ58A	54.0	60.0	3/4	3/8"	208/1	35	50	18.0	9.8	3.6	10.5	225	2 M5.0	1 M0.1	1 2 3 4 5

NOTES:
1. PROVIDE ALL INDOOR UNITS WITH MANUFACTURER'S THERMOSTAT, HARD WIRED, WALL MOUNTED.
2. COOLING CAPACITY RATED AT 80 DEGREES F DB / 67 DEGREES F WB INDOOR AIR AND 95 DEGREES F DB / 75 DEGREES F WB OUTDOOR AIR.
3. PROVIDE WITH FACTORY WASHABLE FILTERS.
4. PROVIDE 208V, 1 PH. TO THE OUTDOOR UNIT; 208V, 1PH. BETWEEN OUTDOOR UNIT & INDOOR UNIT; 24V CONTROL WIRING BETWEEN OUTDOOR UNIT & INDOOR UNIT.
5. CONTRACTOR TO PROVIDE MANUFACTURER'S CONDENSATE PUMP ACCESSORY 53DS-900---118. CONDENSATE PUMP TO BE POWERED BY INDOOR UNIT.

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KLIP DAVIS GRUBB No. C19022 EXP. 11/30/25 STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY | 230417.00
PM - DESIGN TEAM | PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M-33498 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2024

PROJECT TITLE:
Wilhelmina Henry E.S. Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

MECHANICAL LEGENDS, NOTES, AND SCHEDULES

M0.1

QC
INI | %

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area	1500
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
SHP/O-1	Single zone	<= 25,000 ft²	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2023-10-02T16:55:03-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Documentation Author Signature:
Company: Capital Engineering Consultants	Signature Date: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kevin D. Stillman	Responsible Designer Signature:
Company: Capital Engineering Consultants	Date Signed: 10/2/2023
Address: 11020 Sun Center Dr, Suite 100	License: M 33498
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
SHP/O-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
SHP/O-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	60,000	60,000	0	54,000	54,000	60000	54,000

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
SHP/O-1	<65,000		HSPF2	7.5	10.5	SEER2	14.3	18

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stockton USD Kitchen HVAC Augmentation	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-10-02T16:55:03-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.1
Cooling Equipment Efficiency per 110.1		M0.1
Furnace Standby Loss Control per 110.2(d)		N/A
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. STILLMAN
M 33498
Exp. 9/30/25
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Wilhelmina Henry E.S. Augment Kitchen HVAC Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

TITLE 24 COMPLIANCE

M0.2

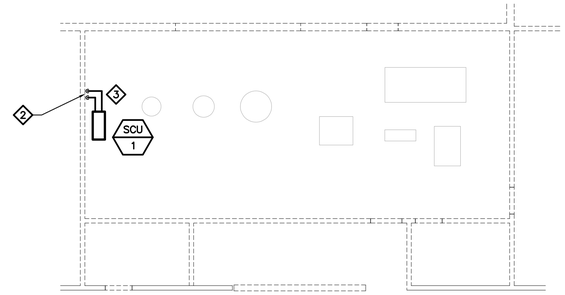
QC	
INI	%

SHEET NOTES:

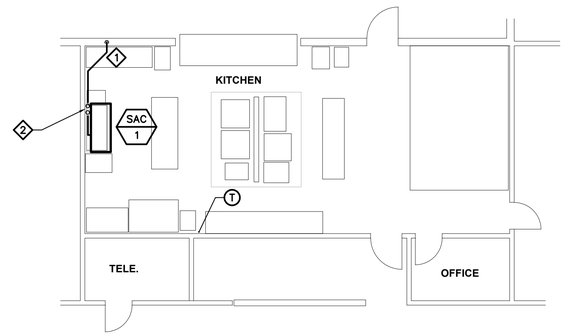
1. THE HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN.
2. EXISTING EQUIPMENT, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT.

KEYNOTES:

1. 3/4" CD ROUTED ABOVE T-BAR CEILING AND DOWN THRU WALL. DISCHARGE INTO (E) FLOOR SINK WITH MIN. 1" AIR GAP. PROVIDE ACCESSIBLE CO IN CHANGES OF DIRECTION.
2. REFRIGERANT PIPE (R)/(D) THRU ROOF, FOR DETAIL SEE 7/M5.0.
3. REFRIGERANT PIPE ON ROOF, FOR MOUNTING DETAIL SEE 9/M5.0.



HVAC ROOF PLAN | 1/8" = 1'-0" | **1**



HVAC FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
KEVIN T. STOLL
M 33498
Exp. 9/30/26
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 10/23/2023

PROJECT TITLE:
Wilhelmina Henry E.S. Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

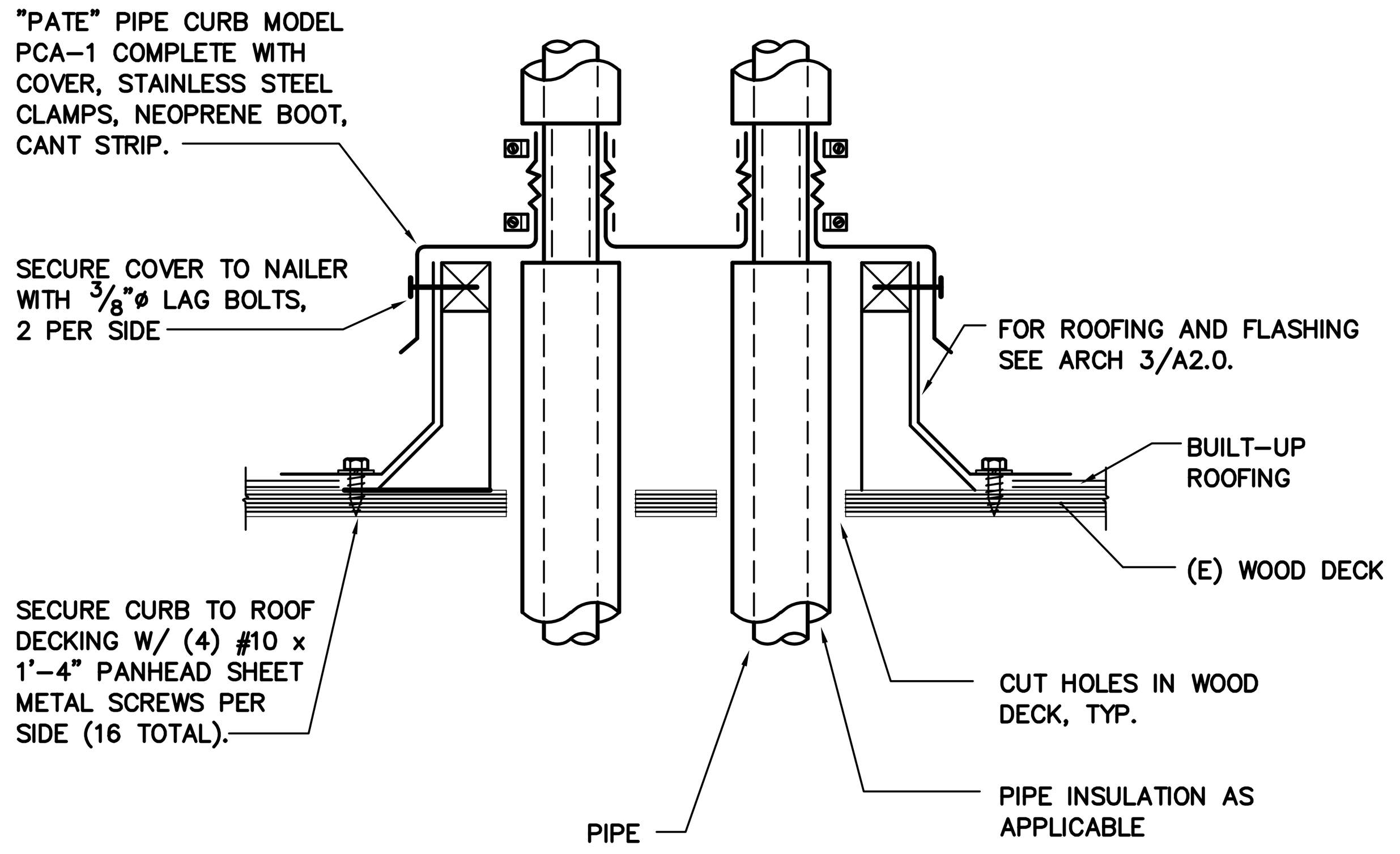
REVISION #:

DATE:
10/23/2024

HVAC FLOOR AND ROOF PLAN

M2.0

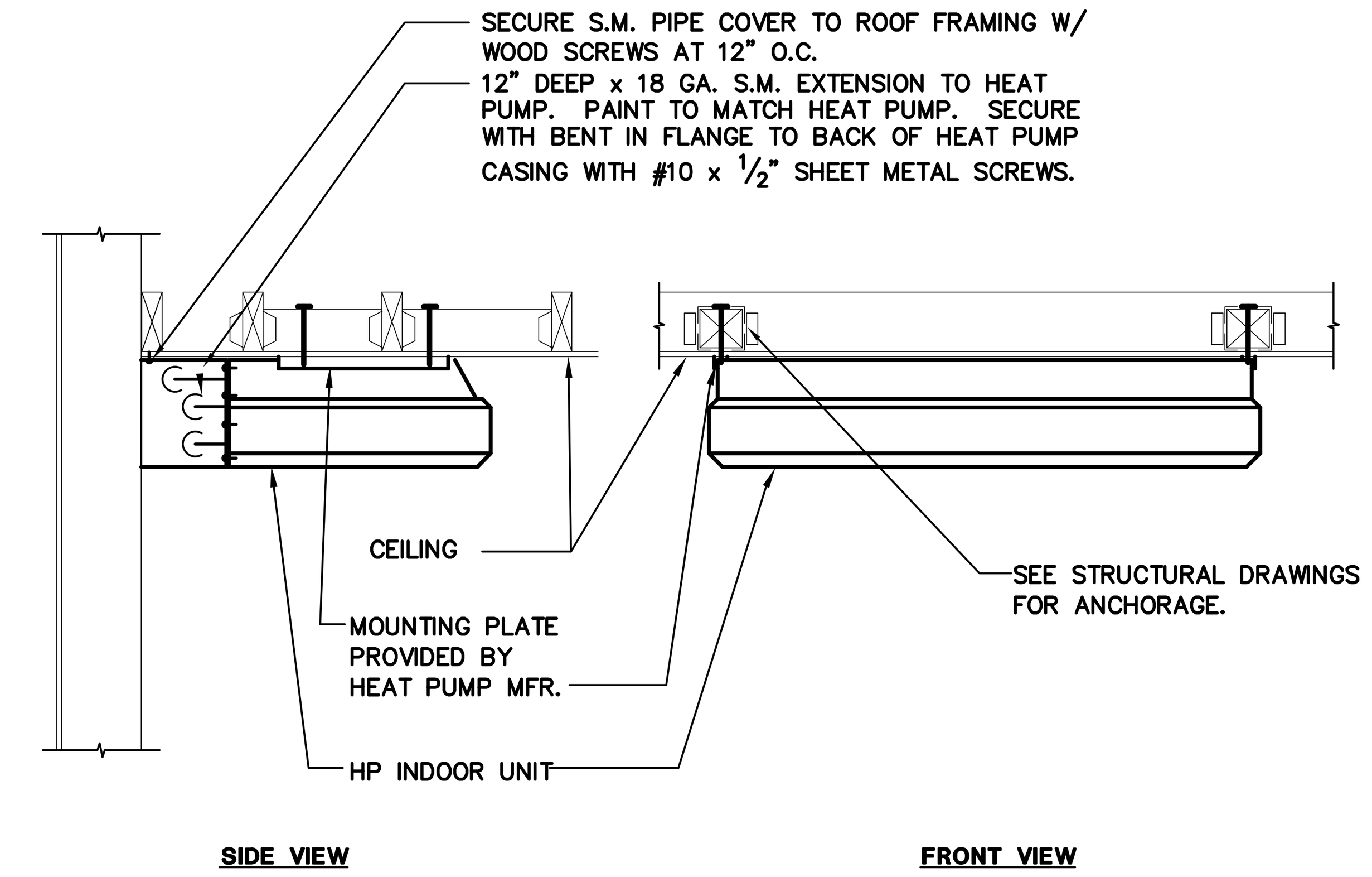
QC	
INI	%



PIPE THRU ROOF

SCALE : NONE

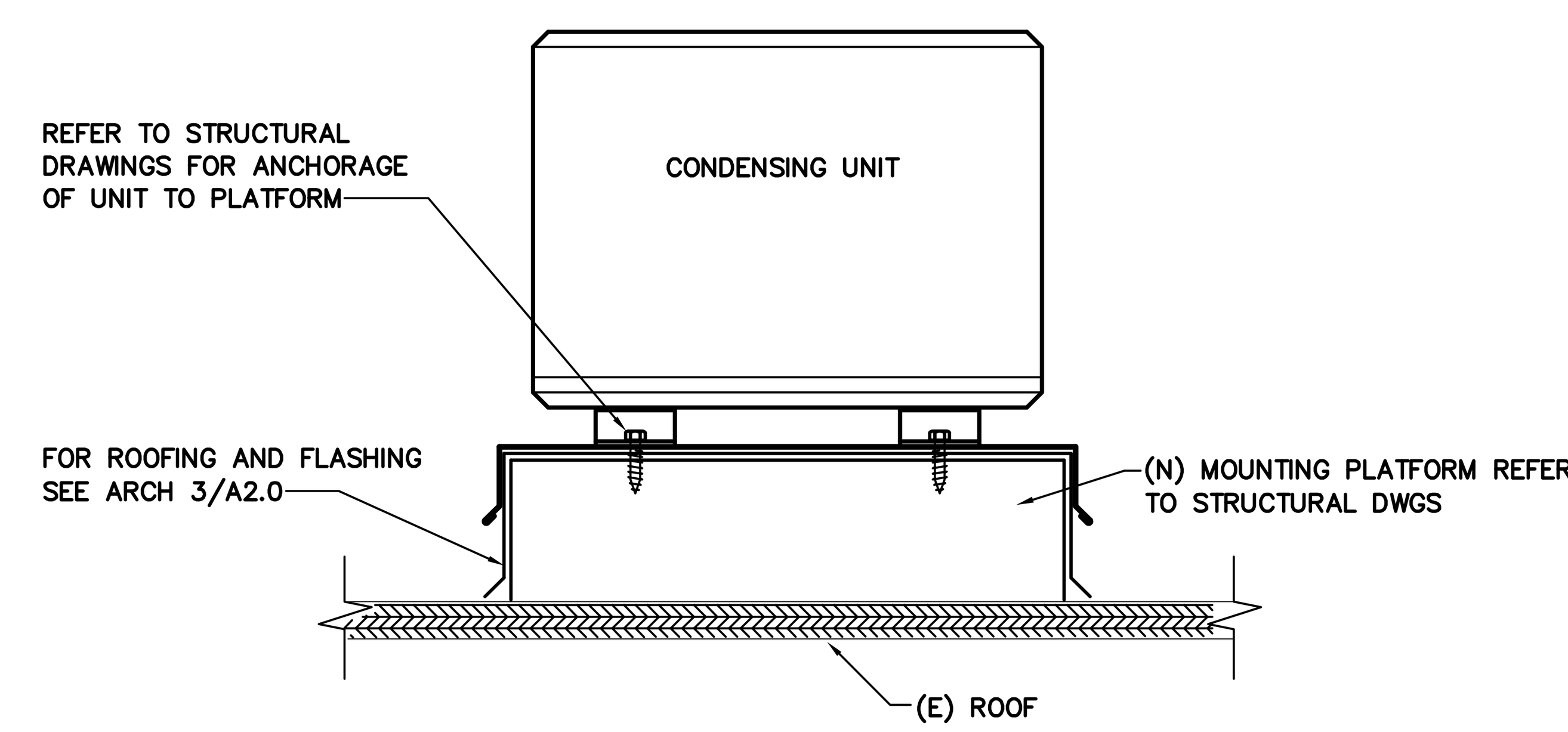
7 / M5.0



HP INDOOR UNIT MOUNTING

SCALE : NONE

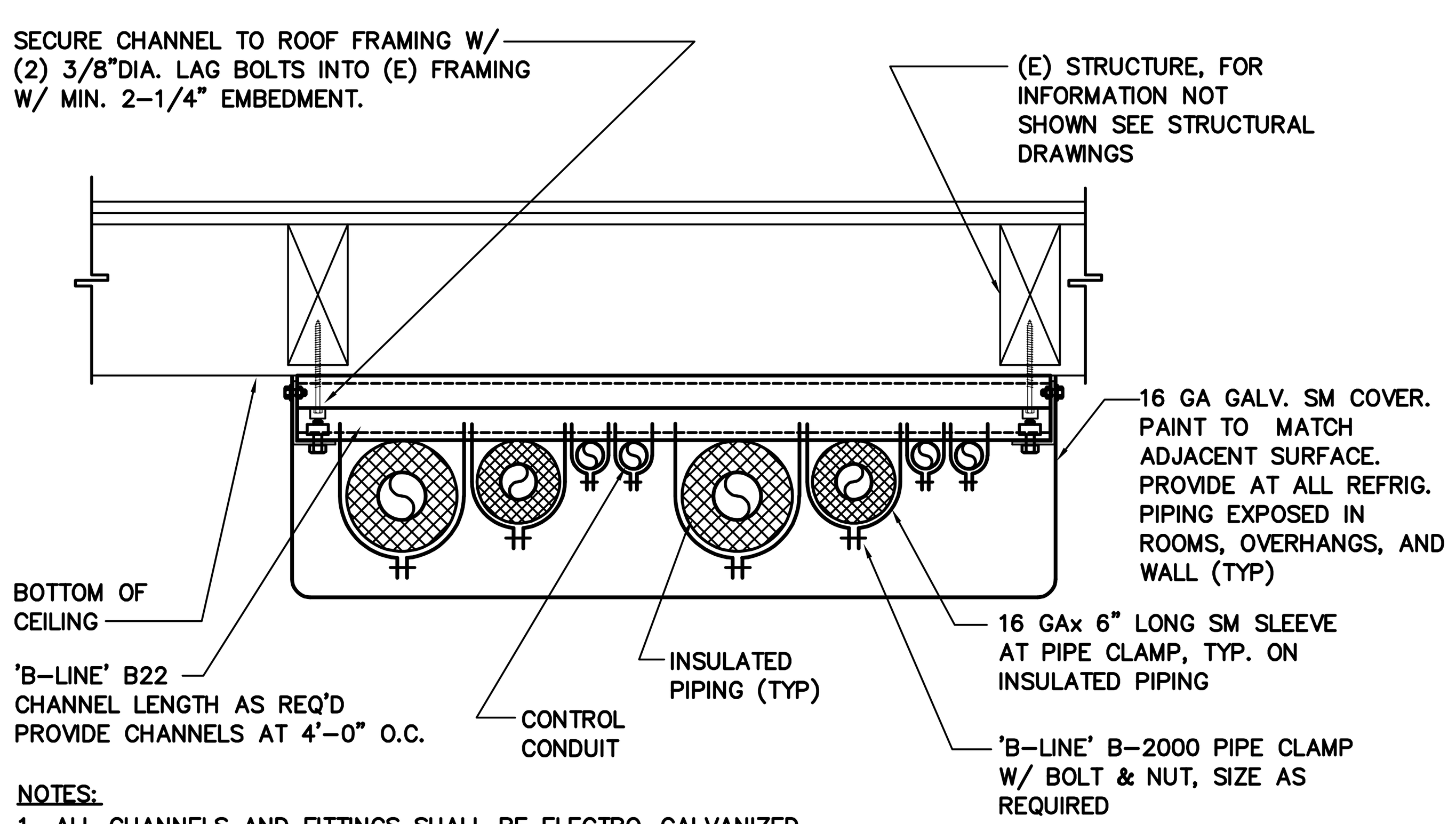
1 / M5.0



HP OUTDOOR UNIT ON ROOF MOUNTING

SCALE : NONE

2 / M5.0



NOTES:
1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED.
2. SEE SPEC SECTION 230050 FOR PIPE SUPPORT SPACING.
3. SEE PLAN FOR NUMBER OF PIPES AND CONDUITS ON EACH SUPPORT.
4. SHEET METAL COVER REQUIRED AT ALL EXPOSED REFRIGERANT PIPING AT EXTERIOR LOCATION. PAINT TO MATCH ADJACENT SURFACE.
5. BOTTOM OF REFRIGERANT PIPING TO BE 7'3" MIN AFF PER 2022 CMC 1109.4.

REFRIGERANT PIPE AT ROOF/WALL/CEILING

SCALE : NONE

9 / M5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT KIP DAVIS GRUBB No. C19022 EXP. 11/30/23 STATE OF CALIFORNIA

capital engineering
Rancho Cordova, California
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER M 33496 Exp. 9/30/26 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 10/23/2023

PROJECT TITLE:
Wilhelmina Henry E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

HVAC DETAILS

M5.0

QC	
INI	%

ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	General
	NEW WORK
XX–X LOCATION 1	EQUIPMENT IDENTIFICATION
	KEYED NOTE
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	FLUSH WALL MOUNTED BRANCH PANEL
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	Raceways
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Wilhelmina Henry E.S. Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL LEGENDS AND NOTES

E0.1

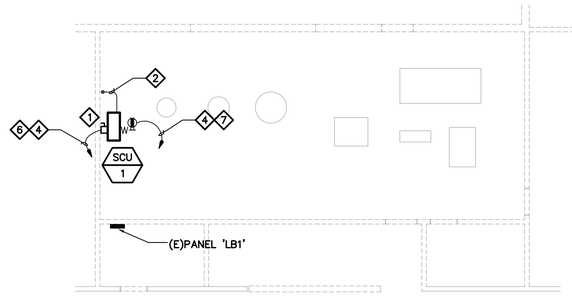
QC
INI | %

SHEET NOTES:

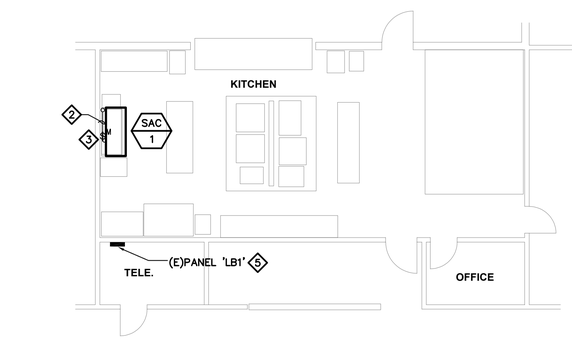
1. REFER TO ELECTRICAL GENERAL NOTES ON SHEET E0.1.

KEYNOTES:

1. PROVIDE 240V RATED 60A DISCONNECT SWITCH FOR THE OUTDOOR UNIT.
2. PROVIDE POWER CONNECTION FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH REFRIGERANT PIPING INSTALLER.
3. PROVIDE 20A MOTOR RATED LOCAL DISCONNECT SWITCH FOR THE INDOOR UNIT.
4. SURFACE MOUNT BRANCH CIRCUIT CONDUIT AND WIRING ON THE ROOF, THEN PROVIDE 'LB' CONDUIT BODY AND PENETRATE ROOF TO GO DOWN TO PANEL 'LB1'. SEE DETAIL 1 AND 2 ON SHEET E5.0 FOR ROOF RECEPTACLE MOUNTING AND CONDUIT PENETRATION MOUNTING DETAIL AND SEE DETAIL 2 ON SHEET A2.0 CONDUIT ON ROOF SUPPORT DETAIL.
5. PROVIDE 1–50/2 AND 1–20/1 CIRCUIT BREAKERS WITH HARDWARE. CONNECT SCU TO 50/2 AND ROOF RECEPTACLE TO 20/1.
6. 1" – 2#6, 1#10GND
7. 3/4" – 2#12, #12GND



ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | **1**



ELECTRICAL FLOOR PLAN | 1/8" = 1'-0" | **2**

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA
JGH - NH/DY — PM - DESIGN TEAM
230417.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Wilhelmina Henry E.S. Augment Kitchen HVAC Stockton USD

PROJECT #:
2022-025.00

REVISION #:

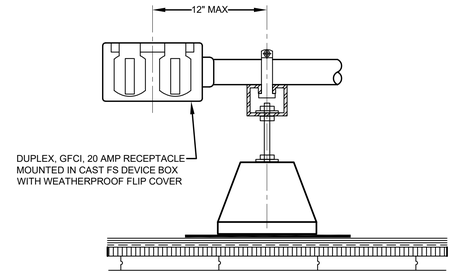
DATE:
10/23/2024

ELECTRICAL FLOOR AND ROOF PLAN

E2.0

QC
INI	%

REFER TO ARCHITECTURAL SHEET A2.0,
DETAIL 2 FOR CONDUIT ON ROOF SUPPORT

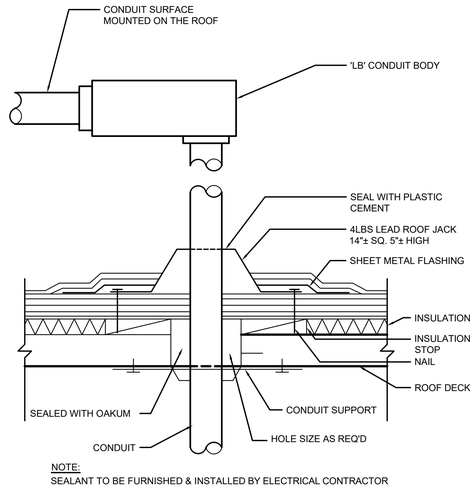


END VIEW

ROOF RECEPTACLE MOUNTING DETAIL

SCALE : NONE

1
E5.0



NOTE:
SEALANT TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR

ROOF CONDUIT PENETRATION DETAIL

SCALE : NONE

2
E5.0

COMMUNITY ARCHITECTURE
3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
KLIP DAVIS GRUBB
No. C19022
EXP. 11/30/25
STATE OF CALIFORNIA

capital engineering
RANCHO CORDOVA, CALIFORNIA

JGH - NH/DY	230417.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/23/2023
DATE SIGNED: _____

PROJECT TITLE:
Wilhelmina Henry E.S.
Augment Kitchen HVAC
Stockton USD

PROJECT #:
2022-025.00

REVISION #:

DATE:
10/23/2024

ELECTRICAL
DETAILS

E5.0