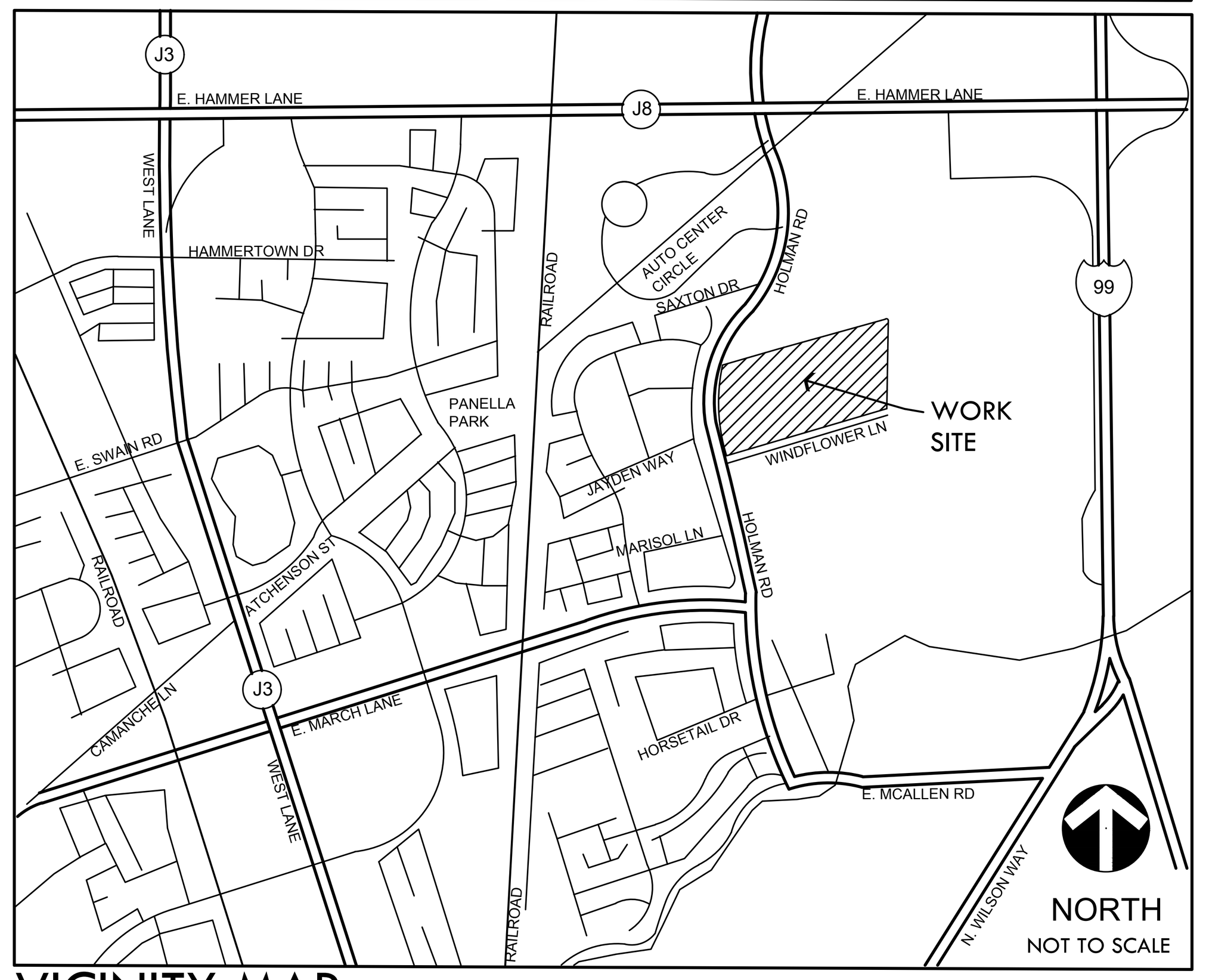
CONSTRUCTION DRAWINGS FOR

CHAVEZ HIGH SCHOOL SWIMMING POOL

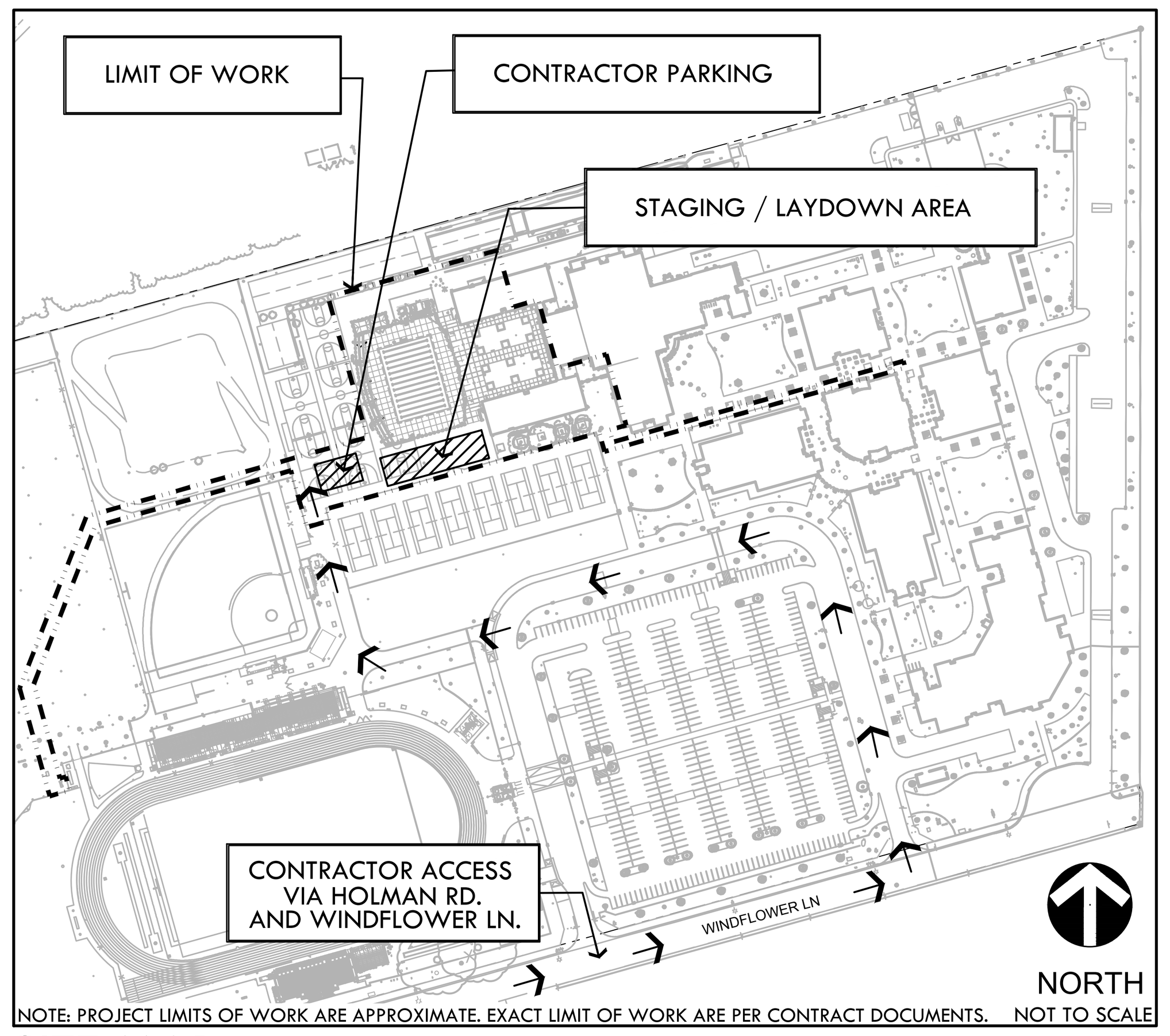
2929 WINDFLOWER LANE
STOCKTON, CA 95212
STOCKTON UNIFIED SCHOOL DISTRICT
DSA PROJECT NO. 02-118018
VERDE DESIGN, INC. PROJECT NO. 1910900-1211

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

PROJECT MAPS

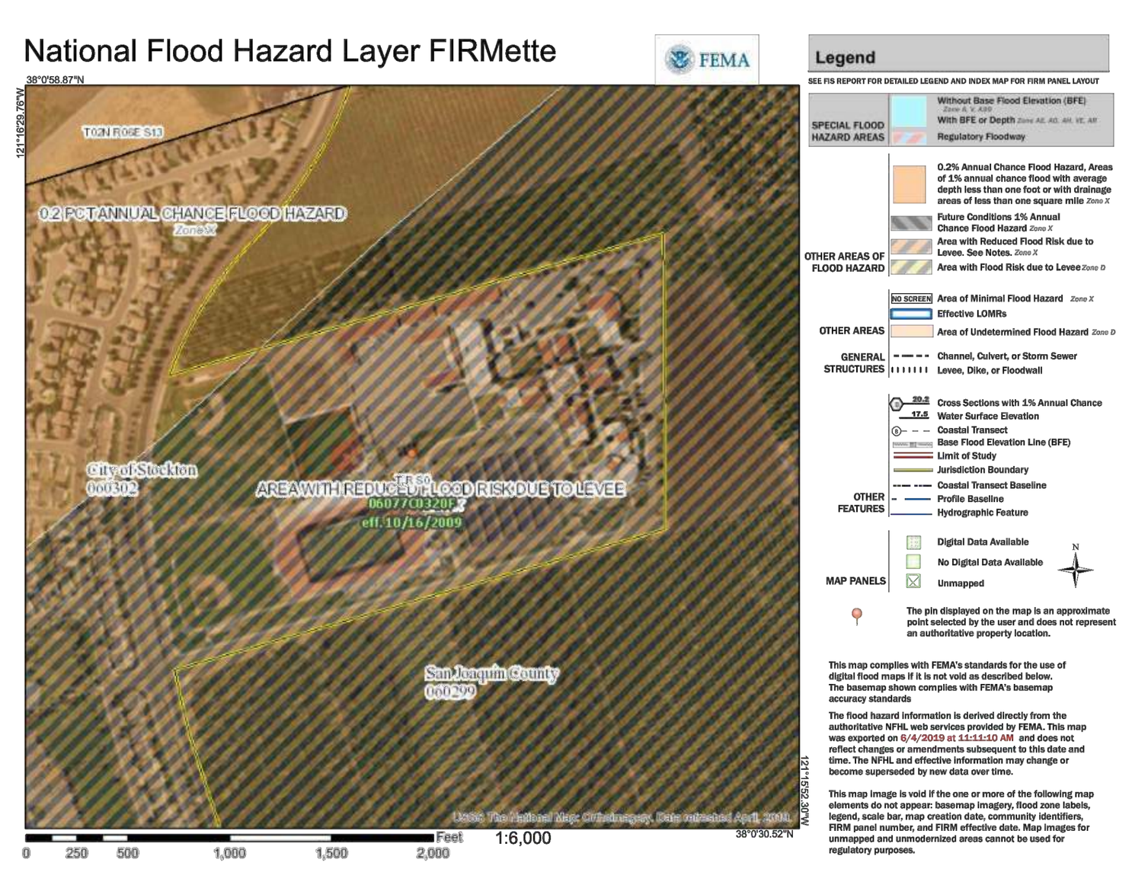


VICINITY MAP



NOTE: PROJECT LIMITS OF WORK ARE APPROXIMATE. EXACT LIMIT OF WORK ARE PER CONTRACT DOCUMENTS.

SITE MAP



FLOOD HAZARD MAP

APPLICABLE CODES

1. 2016 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

   2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
   2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2015 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2014 NATIONAL ELECTRICAL CODE AND 2015 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2015 UNIFORM MECHANICAL CODE AND 2015 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA PLUMBING CODE (CDC), PART 5, TITLE 24 C.C.R.
   (2015 UNIFORM PLUMBING CODE AND 2015 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
   2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2012 INTERNATIONAL FIRE CODE AND 2015 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
   (2015 INTERNATIONAL EXISTING BUILDING CODE AND 2015 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
   2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
   2016 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

   LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)
   AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III
   FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) — 28 CFR 35.151(c)
   OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)
   FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) — 28 CFR 36.406
   2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

   NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY FIRE PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ASME 17.1	ELEVATOR STANDARD	2016 EDITION

   REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

   ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.12, CFC 904.12.

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PREPARED BY

VERDE DESIGN
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CIVIL ENGINEERING
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REGISTERED LANDSCAPE ARCHITECT — MARK S. BAGINSKI — No. 4089 — EXPIRATION DATE: JULY 2021 — STATE OF CALIFORNIA

akh STRUCTURAL ENGINEERS, INC.
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PHONE 408.978.1970
AKH JOB M19-033

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American Consulting Engineers Electrical, Inc.
100 Saratoga Ave, Suite 200, Santa Clara, California 95125
Phone 408.236.2312
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REGISTERED PROFESSIONAL ENGINEER — SAMMY S. FERNANDEZ — E16890 — Exp. 06/30/21 — ELECTRICAL — STATE OF CALIFORNIA

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
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760.438.8400

LICENSED ARCHITECT — SCOTT J. FERREL — C-26222 — REN. 12/31/21 — STATE OF CALIFORNIA

WILLIAM C. KEMPF
ARCHITECT
911 Center Street, Suite F
Santa Cruz, CA 95060
831 459-0951
www.wckempf.com

LICENSED ARCHITECT — WILLIAM C. KEMPF — No. 25962 — SEPTEMBER 30, 2021 EXPIRATION — STATE OF CALIFORNIA

SCOPE OF WORK

SITE IMPROVEMENTS TO INCLUDE BUT NOT BE LIMITED TO THE DEMOLITION OF EXISTING AC PAVING AND BASKETBALL COURTS PER PLANS. CONTRACTOR TO COMPLETE THE INSTALLATION OF A NEW COMPETITION SWIMMING POOL, MECHANICAL BUILDING, UTILITY CONNECTIONS, PLAZA AREA IMPROVEMENTS, FENCING, SCOREBOARD, PLANTERS, SYNTHETIC TURF, SHADE STRUCTURES, LIGHTING, AND CONCRETE WALLS. THIS INCLUDES ALL SITE FURNISHINGS, HARDSCAPE, AND SOFTSCAPE. IN ADDITION, IMPROVEMENTS TO THE ON SITE DRAINAGE, IRRIGATION, UTILITIES AND LOCKER ROOMS SHALL BE COMPLETED. CONDUIT AND OTHER INFRASTRUCTURE TO ALLOW FOR THE FUTURE INSTALLATION OF MUSCO COMPETITION SPORTS LIGHTING IN THE FUTURE WILL ALSO BE INSTALLED.

ADD ALTERNATE

THE INSTALLATION OF MUSCO COMPETITION SPORTS LIGHTING EQUIPMENT, FEEDERS, CONTROLS, POLES AN D FIXTURES.

GENERAL NOTES

1. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE OWNER.
3. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE OWNER, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATING FOR NEW FACILITIES.
4. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
6. DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
7. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
9. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
15. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF THE UTILITIES MUST BE COORDINATED AND APPROVED BY THE OWNER'S REPRESENTATIVE AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.
16. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
17. THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
18. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
19. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
21. CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
23. CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT THEIR PROPOSED BMP AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.
24. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR OWNER REPRESENTATIVE'S DIRECTION.
25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.
26. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR’S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
27. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
28. A “DSA CERTIFIED” PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
29. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
30. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
31. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
32. THE PROJECT WILL BE COMPLIANT WITH CFC CH. 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

CONTACT INFORMATION

ORGANIZATION	NAME	PHONE
OWNER: STOCKTON UNIFIED SCHOOL DISTRICT	STEVE BREAKFIELD DAVID VARELA	(209) 933-7045 x2341 (209) 933-7045 x2828
CIVIL ENGINEER/LANDSCAPE ARCHITECT: VERDE DESIGN INC.	MARK BAGINSKI CHRIS SULLIVAN	(408) 850-3411 (916) 996-5525
STRUCTURAL ENGINEER: AKH STRUCTURAL ENGINEERS, INC	TIM HYDE	(408) 978-1970
ELECTRICAL ENGINEER: ACEE	SAMMY FERNANDEZ	(408) 236-2312
AQUATIC DESIGN: AQUATIC DESIGN GROUP	DENNIS BERKSHIRE	(760) 438-8400
ARCHITECT: WILLIAM C KEMPF	BILL KEMPF	(831) 459-0951
GEOTECHNICAL ENGINEER: WALLACE - KUHL & ASSOCIATES, INC.	MATT MOYNEUR	(209) 372-1434

SHEET INDEX (TOTAL SHEET 94)

* THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS HAS BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTION 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336 , 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

TIM D. HYDE, STRUCTURAL ENGINEER

LICENSE # S3260
EXP. DATE 03/31/2021

CHAVEZ HIGH SCHOOL SWIMMING POOL

DSA BACK CHECK SUBMITTAL - 03/13/2020

USA SHADE STRUCTURE CODE ANALYSIS

CANTILEVER SHADE STRUCTURE OVER TERRACED SEATING:
DIMENSIONS: 150' X 18'. BOTTOM OF BEAM NO MORE THAN 15' ABOVE FINISHED GRADE. HEIGHT VARIES WITH GRADE.
TOTAL SQUARE FOOTAGE: 2,613
OCCUPANCY TYPE: A-3
TYPE OF CONSTRUCTION: V-B
OCCUPANT LOAD FACTOR: ASSEMBLY WITH FIXED SEATS (18" OF SEAT LENGTH PER PERSON) = 179 PEOPLE

HIPROOF SHADE STRUCTURE AT STORAGE AREA:
DIMENSIONS: 47'-6 $\frac{3}{4}$" X 18'. BOTTOM OF BEAM NO MORE THAN 15' ABOVE FINISHED GRADE. HEIGHT VARIES WITH GRADE.
TOTAL SQUARE FOOTAGE: 856
OCCUPANCY TYPE: A-3
TYPE OF CONSTRUCTION: V-B
OCCUPANT LOAD FACTOR: ACCESSORY STORAGE AREA (300 GROSS) = 3 PEOPLE

PARKING COUNTS

TOTAL (e)	(e) STANDARD	(e) RA	(e) RV	REQUIRED ADA STALLS	REQUIRED* RV	TOTAL NEW PARKING REQUIRED
466	456	5	5	9	2	0

*REQUIRED # PER CBC 11B 208.2

PROPOSED PARKING

STANDARD	RA	RV	TOTAL
0	0	0	0

OCCUPANCY LOAD & SAFE DISPERSAL AREA

	AREA	CALCULATIONS	SAFE DISPERSAL REQUIREMENTS
A	SWIMMING POOL	8,035 SQ. FT/ 50 GROSS = 162	PER CBC 1004.1.2 TOTAL OCCUPANCY LOAD = 162 PEOPLE REQUIRED SAFE DISPERSAL AREA: 162 x 5 SQ FT = 810 SQ FT PROVIDED AREA = 11,600 SQ FT.
B	SWIMMING POOL DECK	11,261 SQ. FT/ 15 GROSS = 751	PER CBC 1004.1.2 TOTAL OCCUPANCY LOAD = 751 PEOPLE REQUIRED SAFE DISPERSAL AREA: 751 X 5 SQ FT. = 3,755 SQ FT. PROVIDED AREA = 11,600 SQ FT.
C	TERRACED SEATING	165 LN FT/ 18" PER PERSON = 179	PER CBC 1004.1.2 TOTAL OCCUPANCY LOAD = 179 PEOPLE REQUIRED SAFE DISPERSAL AREA: 179 X 5 SQ FT. = 895 SQ FT. PROVIDED AREA = 11,600 SQ FT.
D	COURTYARD	12,474 SQ. FT/ 15 GROSS = 831	PER CBC 1004.1.2 TOTAL OCCUPANCY LOAD = 831 PEOPLE REQUIRED SAFE DISPERSAL AREA: 831 X 5 SQ FT. = 4,155 SQ FT. PROVIDED AREA = 11,600 SQ FT.

EXITING CALCULATIONS

PROPOSED OCCUPANCY USE - ASSEMBLY WITH FIXED SEATS

SWIMMING POOL AREA MAX OCCUPANCY = 1,466 PERSONS

EXIT WIDTH CALCULATION REQUIRED
1,466 OCCUPANTS X .2=293" OR 25'-0" OF GATE

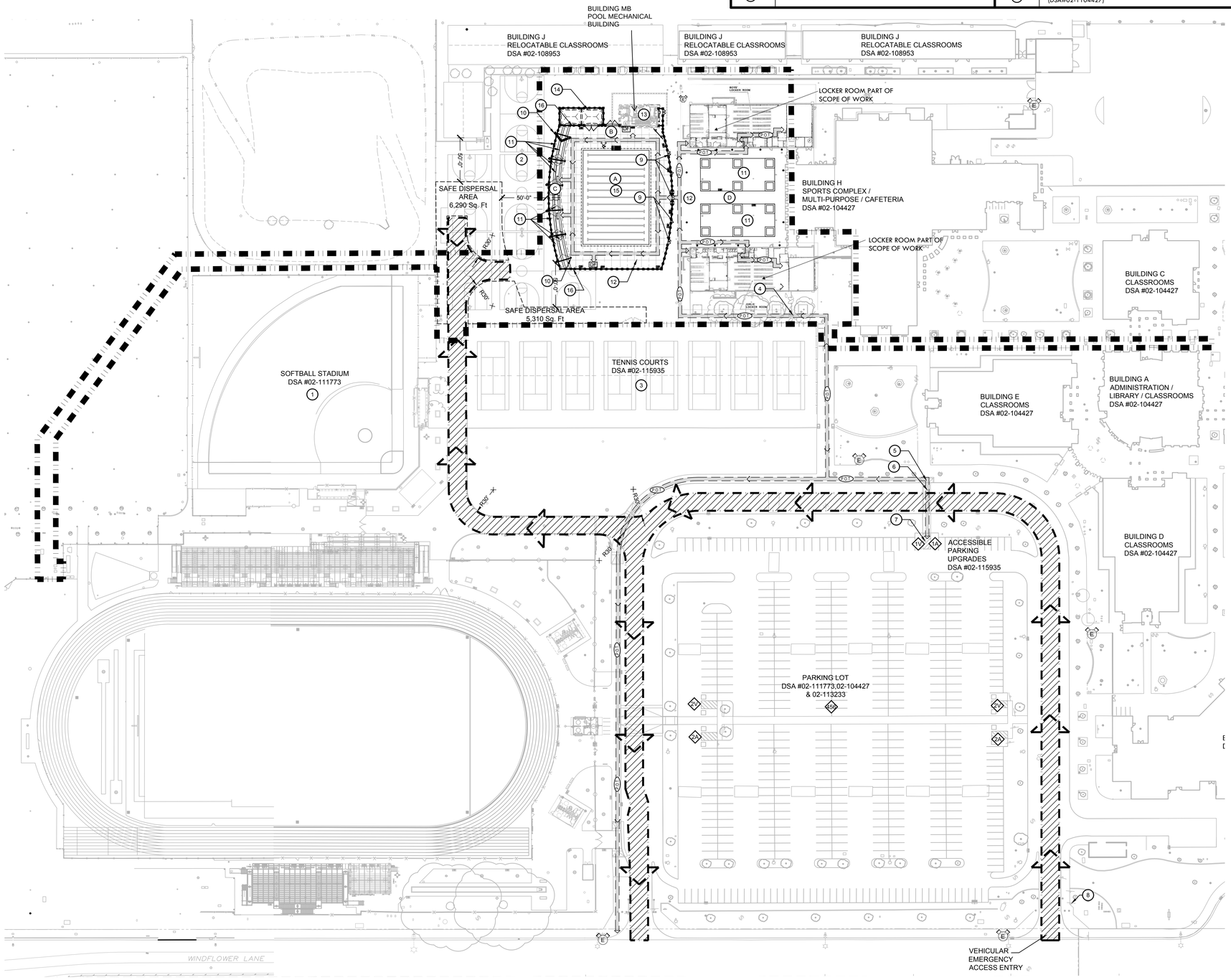
EXIT WIDTH CALCULATION PROVIDED
8 - 4'-0" GATES = 32'-0"
TOTAL WIDTH= 32'-0"

FOR EXITING ANALYSIS OF SWIMMING POOL REFER TO DETAIL B, SHEET L1.1

ACCESSIBILITY LEGEND

SYM	DESCRIPTION	DTL
5	EXISTING ACCESSIBLE RAMP - DSA#02-115935	A L1.1
6	EXISTING CROSSWALK - DSA#02-115935	A L1.1
7	EXISTING ACCESSIBLE AISLE - DSA#02-115935	A L1.1
8	EXISTING TOW AWAY SIGN	
9	PROPOSED ACCESSIBLE ORNAMENTAL GATE WITH KICKPLATE AND PANIC HARDWARE	H D3.0
10	PROPOSED SHADE STRUCTURE AT SEATING AREA, REFER TO USA SHADE STRUCTURE SHEETS	
11	PROPOSED SYNTHETIC TURF	
12	PROPOSED HARDSCAPE	
13	PROPOSED MECHANICAL BLDG, REFER TO AQUATIC SHEETS, STRUCTURAL SHEETS, AND ARCHITECTURAL SHEETS	
14	PROPOSED SHADE STRUCTURE AT STORAGE AREA, REFER TO USA SHADE STRUCTURE SHEETS	
15	SWIMMING POOL EXIT ANALYSIS	B L1.1
16	FIRE EXTINGUISHER	

SYM	DESCRIPTION	DTL
	PROJECT LIMIT OF WORK	
	ACCESSIBLE PATH OF TRAVEL	
	FIRE DEPARTMENT ACCESS - FIRE DEPARTMENT ACCESS IS 20' AND RATED 96,000 LBS	
DF	NEW ACCESSIBLE DRINKING FOUNTAIN	J D1.0
	EXISTING DRINKING FOUNTAIN	
E	EXISTING FIRE HYDRANT	
458	EXISTING NUMBER OF PARKING STALLS (DSA APPLICATION NO. 02-104427)	
14	EXISTING NUMBER OF ACCESSIBLE PARKING STALLS (DSA APPLICATION NO. 02-104427)	
1	EXISTING SOFTBALL FIELD DSA #02-111773	
2	EXISTING BASKETBALL COURTS - DSA APPLICATION NO. 02-104427	
3	EXISTING TENNIS COURTS - DSA APPLICATION NO. 02-115935	
4	EXISTING PEDESTRIAN GATE WITH KICKPLATE AND PUSHBAR (DSA#02-1104427)	



GENERAL SHEET NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM, AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2%, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE NOTED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FROM OBJECTS PROTRUDING MORE THAN 4" FROM WALL BETWEEN 27" AND 80" AFF. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
2. CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED, OR WILL BE REMOVED, UNDER THIS PROJECT, AND THAT THE PATH OF TRAVEL COMPLIES WITH CBC 1133B
3. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.
4. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DIRECTIVE (CCD) DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS **FOR PATH OF TRAVEL REQUIREMENTS AND STRUCTURAL REPAIRS.** AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A "CONSTRUCTION CHANGE DOCUMENT" (FORM **DSA 140**).

NOTE: THIS DRAWING IS FOR AGENCY APPROVAL ONLY - NOT FOR CONSTRUCTION.

LOCAL FIRE AUTHORITY REVIEW

DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1-3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and* 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: Stockton Unified School District — LFA VERIFIED SITE 3/27.
Project Name/School: Chavez High School — DSA CONFIRMED FOR PROJECT 4/29/19
Project Address: 2929 Windflower Lane, Stockton, CA 95212

FIRE & LIFE SAFETY INFOMATION

1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☒
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☒
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐		No ☒
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION

		ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.		☒		
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	X			
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	X			
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			X	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

DSA 810 (rev 10-22-18) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 4 STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: STEVE L. BRENKFIELD — Title: DIRECTOR
Signature: [signature] — Date: 12/20/19

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: Stockton Fire Department
LFA Review Official: Phil Simon
Title: Assistant Fire Marshal
Work E-mail: philsimon@stocktonca.gov

NORTH
0 25' 50' 100' 150'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
ACCESSIBILITY PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

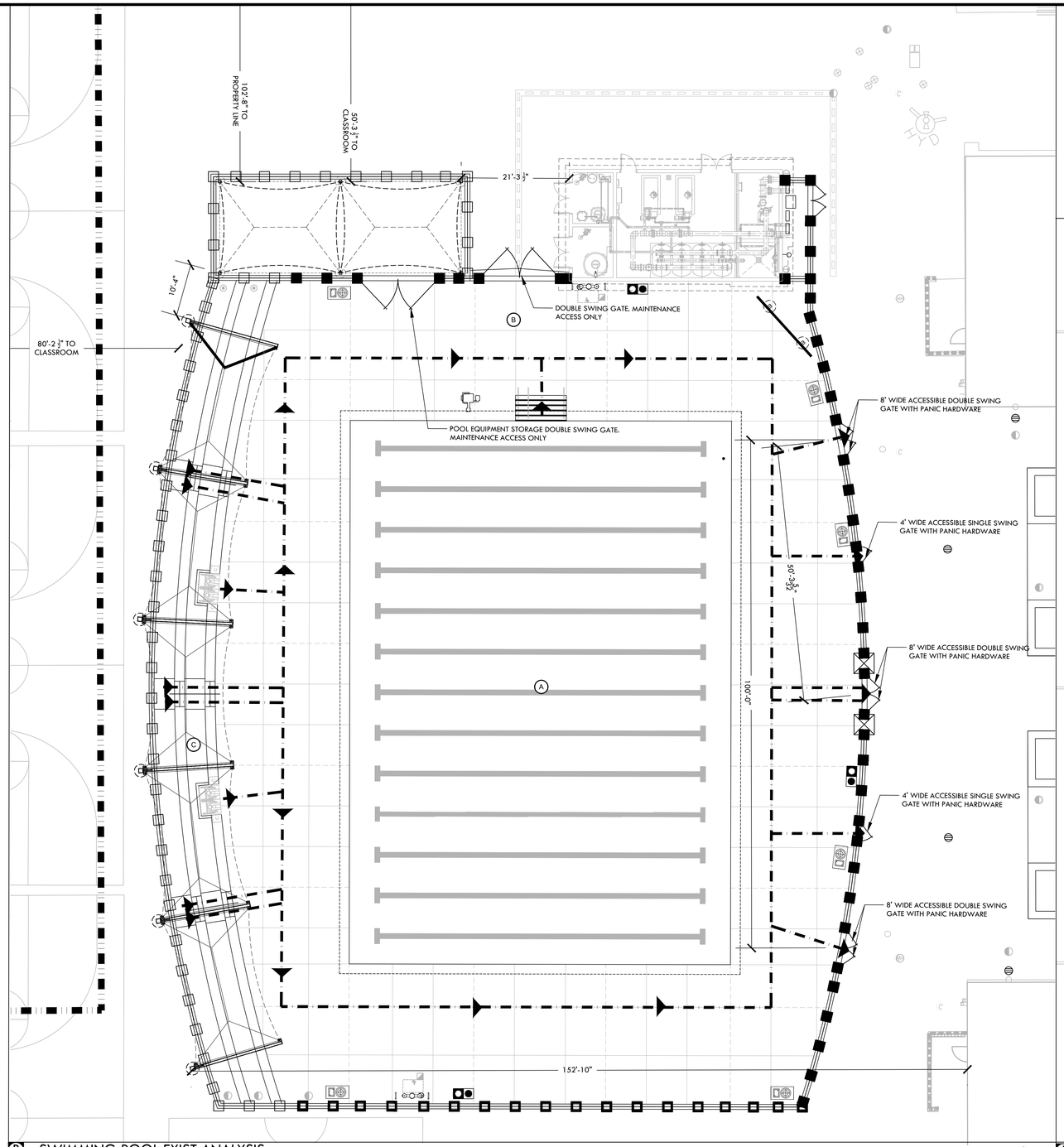
PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

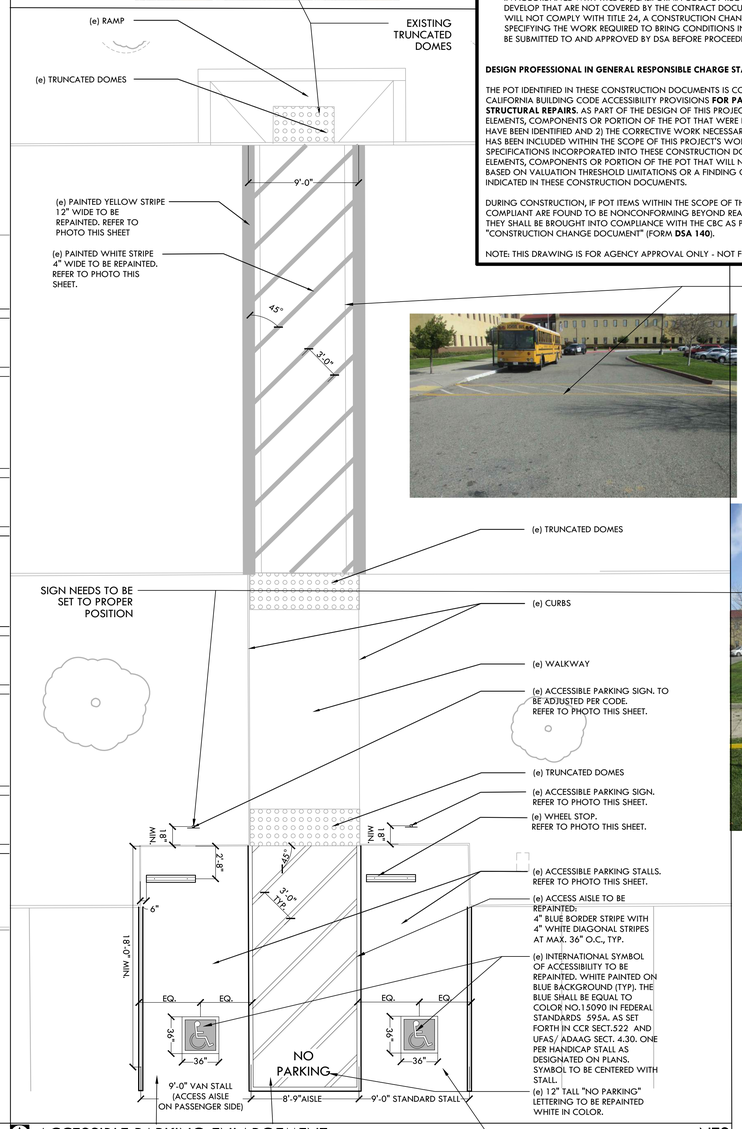
NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED	SCALE
03/13/2020	1" = 50'
PROJ. NO.	
1910900-1211	
SHEET NO.	
L1.0	

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_ACC- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46



B SWIMMING POOL EXIST ANALYSIS NTS



A ACCESSIBLE PARKING ENLARGEMENT NTS

GENERAL SHEET NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM, AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2%, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE NOTED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FROM OBJECTS PROTRUDING MORE THAN 4" FROM WALL BETWEEN 27" AND 80" AFF. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
2. CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED, OR WILL BE REMOVED, UNDER THIS PROJECT, AND THAT THE PATH OF TRAVEL COMPLIES WITH CBC 1133B
3. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.
4. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DIRECTIVE (CCD) DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

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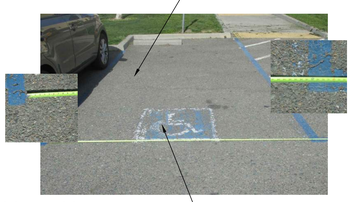
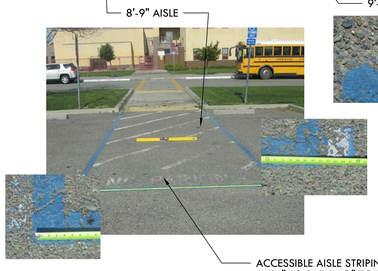
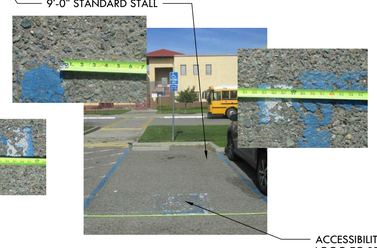
ACCESSIBLE AISLE AND STALL STRIPING TO BE REPAINTED PER DETAIL A THIS SHEET.

EXISTING ACCESSIBLE PARKING STALLS - DSA 02-115935







NORTH

0 25' 50' 100' 150'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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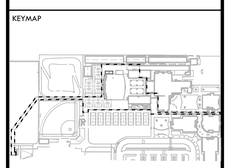
CONSULTANT

KEYMAP



SHEET TITLE
ACCESSIBILITY DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

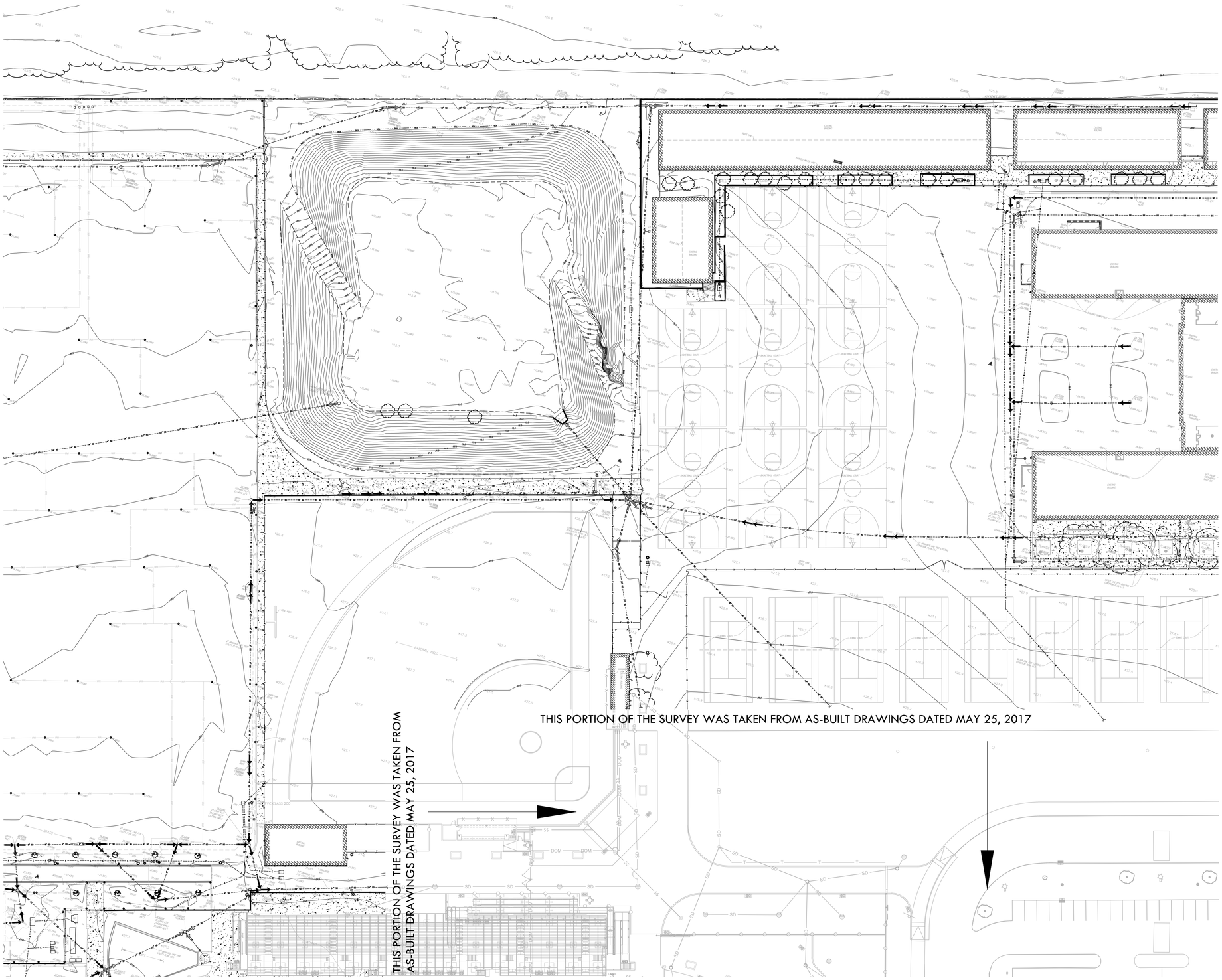
PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED: 03/13/2020	SCALE
PROJ. NO.: 1910900-1211	
SHEET NO.: L1.1	

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_ACC- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46



EXISTING CONDITIONS NOTES

1. SURVEY PROVIDED BY: CAL VADA SURVEYING, INC.
2. ASSESSOR'S PARCEL NO.: 130-040-03
3. ELEVATIONS SHOWN HEREON ARE BASED UPON STOCKTON CITY BENCHMARK 341, ELEVATION 28.83 FEET (NAVD 88):
   5/8" ALUMINUM ROD DRIVEN TO REFUSAL WITH 2-1/2" DIAMETER ALUMINUM CAP STAMPED "WELL 26, L.S. 4334," IN AN ALUMINUM MONUMENT WELL WITH SCREW LOCKING COVER; BENCH MARK IN LOCATED WITHIN THE LOCKED CITY OF STOCKTON WELL SITE NO. 26, ON SOUTH SIDE OF HAMMER LN, ON THE WEST SIDE OF THE EBMUD RIGHT-OF-WAY. THE POINT LIES IN CENTER OF PAVED AREA EAST OF WELL BUILDING. CONTACT THE CITY OF STOCKTON SURVEYS SECTION FOR ACCESS.
4. FIELD COMPLETION DATE: 08/07/19
5. FINAL SURVEY ISSUED: 10/15/19, UPDATED 11/26/19
6. THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, (2017.50) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID BEARINGS ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK CONTINUOUS OPERATING REFERENCE STATIONS (C.O.R.S.):

C.S.R.C. P273:
NORTHING = 2229969.53' EASTING = 6306178.61'

C.S.R.C. P309:
NORTHING = 2219667.30' EASTING = 6431806.86'

CONTROL POINTS

CP#	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	2192386.08'	6339908.09'	28.42'	SET MAGNETIC NAIL/SHINNER
CP2	2192214.00'	6339396.78'	25.56'	SET CHISELED "X"
CP3	2192244.46'	6339663.76'	25.62'	SET 60DN
CP4	2191780.53'	6338889.60'	26.17'	SET CHISELED "X"
CP5	2192159.80'	6338916.65'	26.98'	SET CHISELED "X"
CP6	2191673.49'	6339270.32'	28.61'	SET 1X2 WOOD HUB & TAG
CP7	2191834.81'	6339331.96'	27.54'	SET MAGNETIC NAIL/SHINNER
CP8	2191273.81'	6338991.86'	26.07'	SET CHISELED "X"
CP9	2191397.32'	6339271.01'	27.39'	SET WOOD 1X2 HUB & TAG
CP10	2191315.83'	6339011.30'	27.00'	SET WOOD 1X2 HUB & TAG
CP11	2191592.48'	6338957.11'	26.84'	SET WOOD 1X2 HUB & TAG

MONUMENT NOTES

MON#	DESCRIPTION
M41	FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520
M42	FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520
M43	FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520

EXISTING CONDITIONS LEGEND

APN	ASSESSOR'S PARCEL NUMBER
CB	CATCH BASIN
DI	DRAIN INLET
EP	ELECTRIC PANEL
EPB	ELECTRIC PULL BOX
EV	ELECTRIC VAULT
FF	FINISH FLOOR
FS	FINISH SURFACE
FL	FLOW LINE
HCP	HANDICAP RAMP
INV	INVERT
ICV	IRRIGATION CONTROL VALVE
NG	NATURAL GROUND
SDCO	STORM DRAIN CLEAN OUT
TOE	TOE OF SLOPE
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UB	UTILITY BOX
WV	WATER VAULT
	BACK-FLOW VALVE
	BASKETBALL
CONCRETE	CONCRETE PAVEMENT
	CONTROL POINT
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	FOUND MONUMENT AS NOTED
	GATE
E	GROUND ELECTRIC
IV	IRRIGATION CONTROL VALVE
	LIGHT STANDARD
M	MANHOLE
PIV	POST INDICATOR VALVE
C	SEWER CLEAN OUT
S	SEWER MANHOLE
	SIGN
	STAIRS SHOWING DOWNWARD DIRECTION
D	STORM DRAIN MANHOLE
	STREET LIGHT
	TRAFFIC LIGHT
	TREE (TYPICAL)
	WATER SPRINKLER
	WATER VALVE
	CHAIN LINK FENCE
	CONCRETE/RETAINING WALL
	EDGE OF PAVEMENT
	ELECTRIC LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	TELECOM LINE
TOE	TOE OF SLOPE
TOS	TOP OF SLOPE
	GAS LINE
	WATER LINE
DOM	DOMESTIC WATER LINE
26.5	CONTOUR
	EXISTING IRRIGATION LATERAL LINE PER DISTRICT PROVIDED AS-BUILT DRAWINGS
	EXISTING IRRIGATION MAIN LINE PER DISTRICT PROVIDED AS-BUILT DRAWINGS

NORTH
0' 15' 30' 60' 90'

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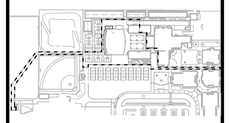
LICENSED LAND SURVEYOR Armando D. DuPont L.S. 7780 Exp. 12-31-19 STATE OF CALIFORNIA
Armando D. DuPont
Registration No. 7780

CONSULTANT

CAL VADA SURVEYING, INC.
411 Jenks Cir., Suite 205, Corona, CA 92880
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com
EST. 1989 JOB NO. 19396

KEYMAP



SHEET TITLE
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STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

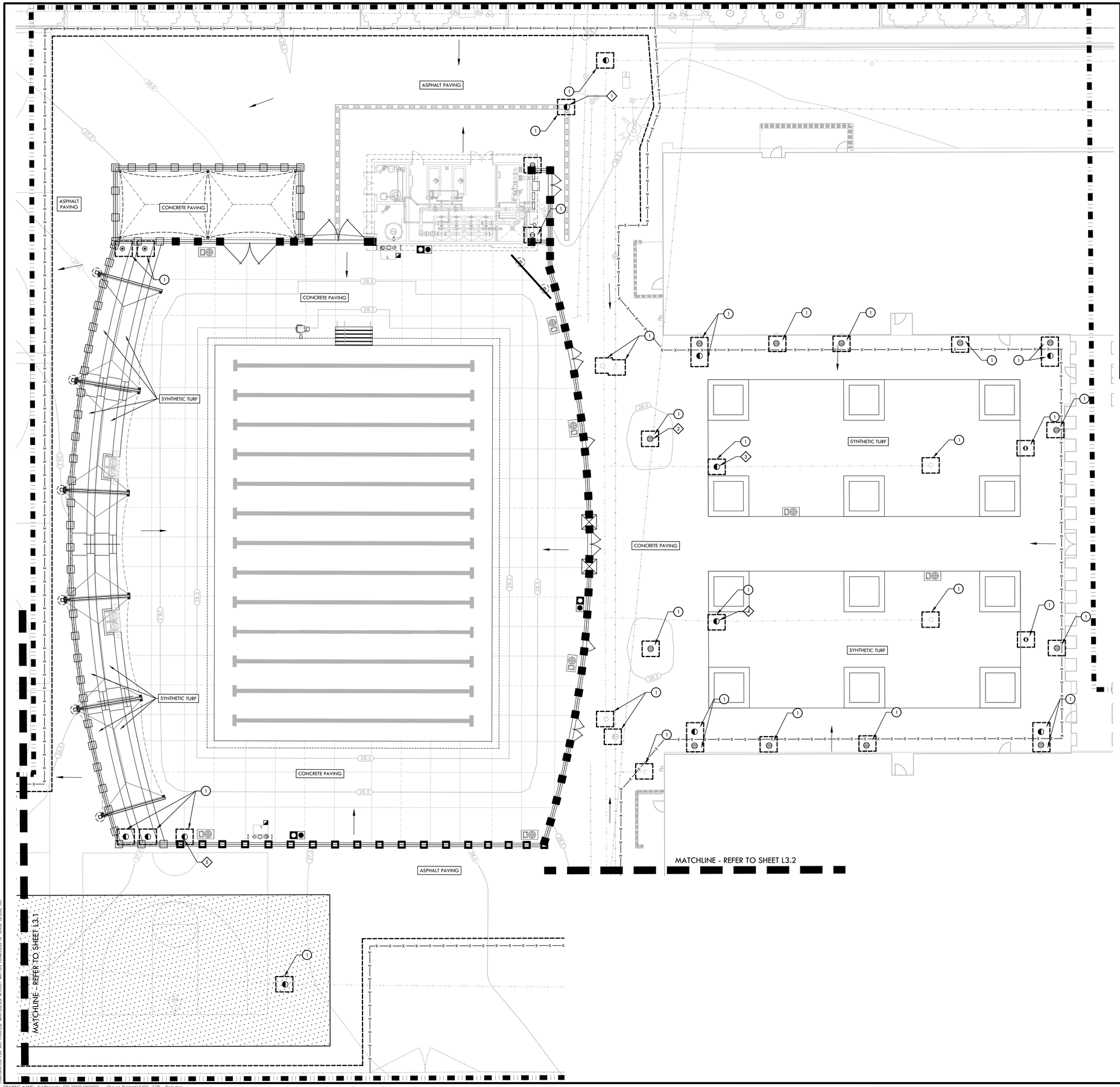
SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED: 03/13/2020	SCALE: 1" = 30'-0"
PROJ. NO.: 1910900-1211	
SHEET NO.: L2.0	

EXISTING CONDITIONS PLAN

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_EXC- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46



EROSION/SEDIMENTATION CONTROL NOTES

1. EROSION/SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION/SEDIMENTATION CONTROL PLAN SHALL REMAIN THROUGHOUT CONSTRUCTION AND DISPOSED DURING MAINTENANCE PERIOD.
3. EROSION/SEDIMENTATION CONTROL PLAN MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WEEKLY WITH STREET SWEEPER.
5. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.

EROSION/SEDIMENTATION CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
1	FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER WADDLE	D 3.1
	FILTER ROLL BARRIER	C 3.1
	TEMPORARY CONSTRUCTION FENCE - ADJUST ACCORDING TO SCHOOL SCHEDULE FOR ACCESS. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT FOR SCHOOL BELL SCHEDULE. CONTRACTOR SHALL MAINTAIN A 4' MINIMUM WIDE ACCESSIBLE PATH OF TRAVEL FOR STUDENTS AND FACULTY TO ACCESS ALL GYM DOORS, TENNIS COURTS AND ADJACENT PORTABLE BUILDINGS. IMPROVEMENTS AT THE EXISTING BASKETBALL COURTS AND MULTI USE FIELD TO BE EXPEDITED SO THAT MINIMAL CLOSURE IS REQUIRED	
	SLOPE DIRECTION	
	CONSTRUCTION WASHOUT AREA - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	B 3.1
	CONSTRUCTION STAGING AREA	
	CONSTRUCTION ENTRY	A 3.1
	PROJECT ACCESS ROAD	
X	ANTICIPATED DISCHARGE LOCATION, VISUAL MONITORING LOCATION, AND SAMPLING LOCATION	
NV-X	NON-VISIBLE POLLUTANT SAMPLING LOCATION	

NORTH

0' 5' 10' 20' 30'

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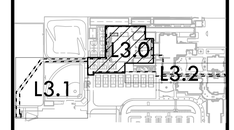

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PROJECT ADDRESS

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L3.0	

EROSION CONTROL PLAN

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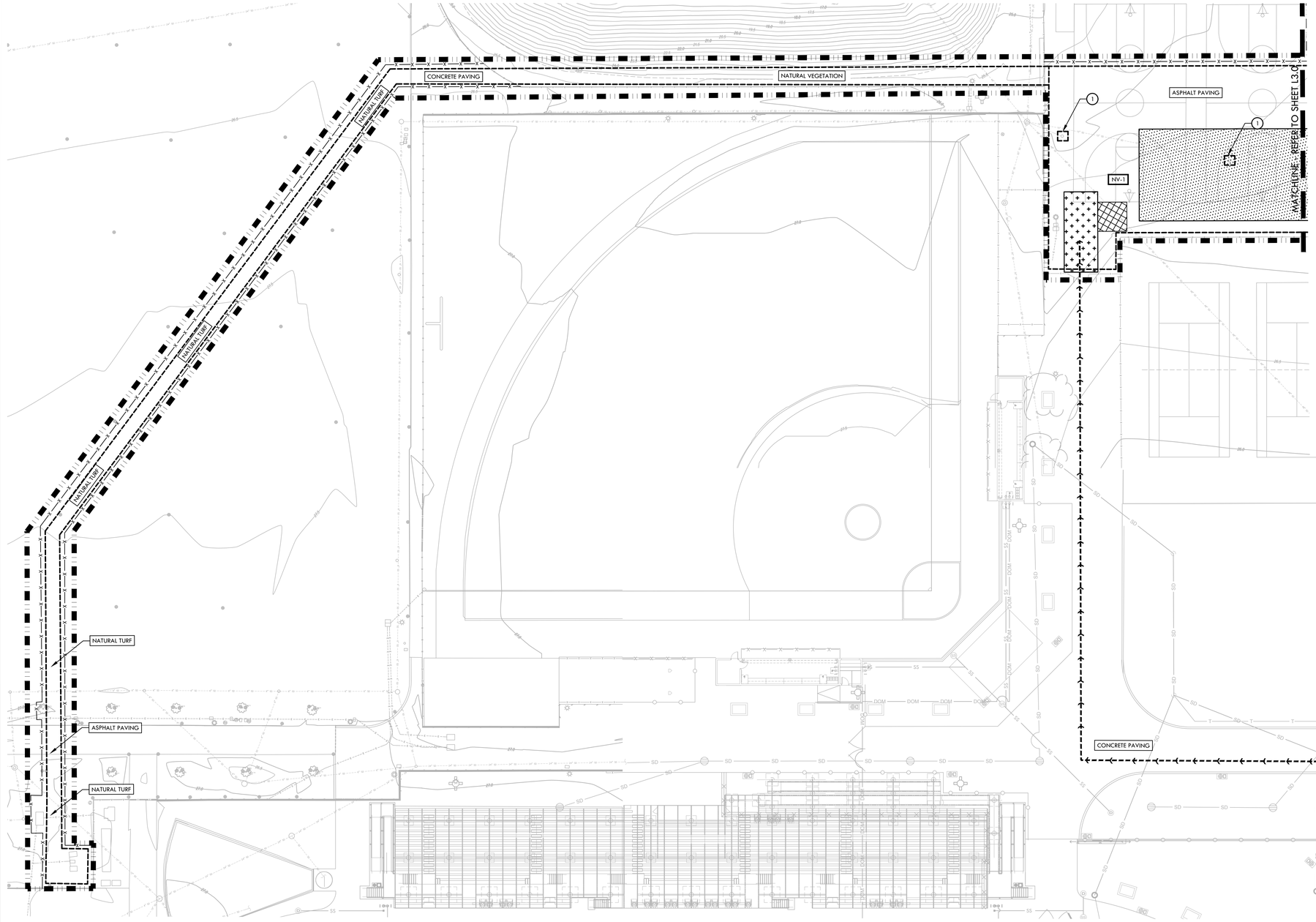
PLOT DATE: 04-28-20 PLOTTED BY: station46

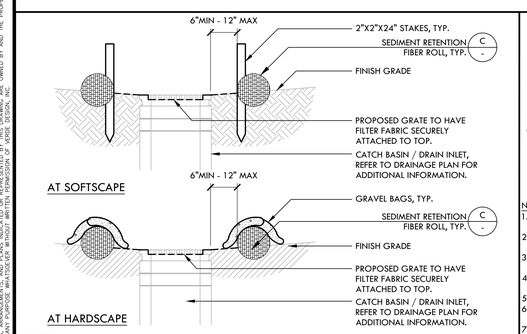


EROSION/SEDIMENTATION CONTROL NOTES

1. EROSION/SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION/SEDIMENTATION CONTROL PLAN SHALL REMAIN THROUGHOUT CONSTRUCTION AND DISPOSED DURING MAINTENANCE PERIOD.
3. EROSION/SEDIMENTATION CONTROL PLAN MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WEEKLY WITH STREET SWEEPER.
5. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.

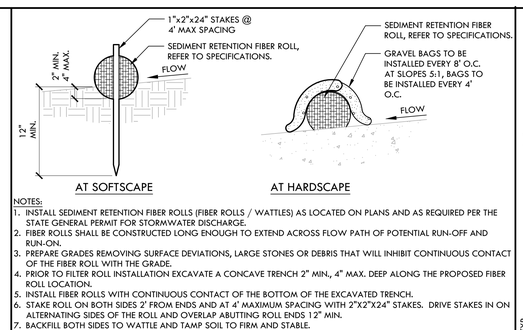
EROSION/SEDIMENTATION CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
1	FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER WADDLE	D -
	FILTER ROLL BARRIER	C -
	TEMPORARY CONSTRUCTION FENCE - ADJUST ACCORDING TO SCHOOL SCHEDULE FOR ACCESS. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT FOR SCHOOL BELL SCHEDULE. CONTRACTOR SHALL MAINTAIN A 4' MINIMUM WIDE ACCESSIBLE PATH OF TRAVEL FOR STUDENTS AND FACULTY TO ACCESS ALL GYM DOORS, TENNIS COURTS AND ADJACENT PORTABLE BUILDINGS. IMPROVEMENTS AT THE EXISTING BASKETBALL COURTS AND MULTI USE FIELD TO BE EXPEDITED SO THAT MINIMAL CLOSURE IS REQUIRED	
	SLOPE DIRECTION	
	CONSTRUCTION WASHOUT AREA - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	B -
	CONSTRUCTION STAGING AREA	
	CONSTRUCTION ENTRY	A -
	PROJECT ACCESS ROAD	
X	ANTICIPATED DISCHARGE LOCATION, VISUAL MONITORING LOCATION, AND SAMPLING LOCATION	
NV-X	NON-VISIBLE POLLUTANT SAMPLING LOCATION	



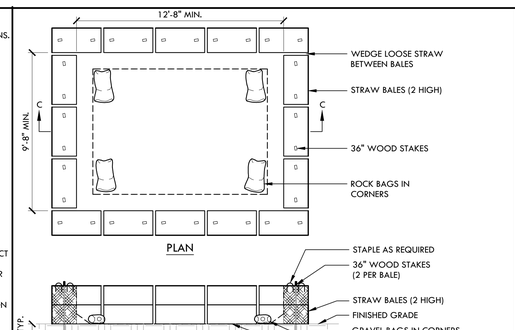
NOTES:
CONTRACTOR TO CONFORM TO SEDIMENT RETENTION FIBER ROLL NOTES PROVIDED IN DETAIL C, THIS SHEET.

D STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS — NTS

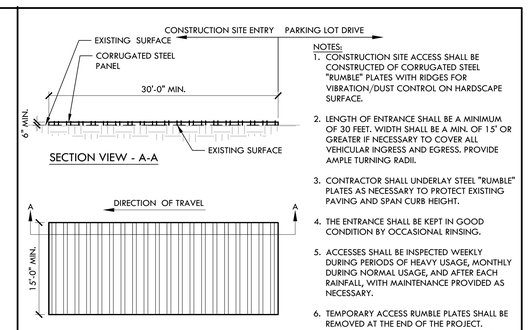


NOTES:
1. INSTALL SEDIMENT RETENTION FIBER ROLLS (FIBER ROLLS / WATTLES) AS LOCATED ON PLANS AND AS REQUIRED PER THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.
2. FIBER ROLLS SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS FLOW PATH OF POTENTIAL RUN-OFF AND RUN-ON.
3. PREPARE GRADES REMOVING SURFACE DEVIATIONS, LARGE STONES OR DEBRIS THAT WILL INHIBIT CONTINUOUS CONTACT OF THE FIBER ROLL WITH THE GRADE.
4. PRIOR TO FILTER ROLL INSTALLATION EXCAVATE A CONCAVE TRENCH 2" MIN., 4" MAX. DEEP ALONG THE PROPOSED FIBER ROLL LOCATION.
5. INSTALL FIBER ROLLS WITH CONTINUOUS CONTACT OF THE BOTTOM OF THE EXCAVATED TRENCH.
6. STAKE ROLL ON BOTH SIDES 2' FROM ENDS AND AT 4' MAXIMUM SPACING WITH 2"X2"X24" STAKES. DRIVE STAKES IN ON ALTERNATING SIDES OF THE ROLL AND OVERLAP ABUTTING ROLL ENDS 12" MIN.
7. BACKFILL BOTH SIDES TO WATTLE AND TAMP SOIL TO FIRM AND STABLE.
8. CONTRACTOR SHALL MAKE WEEKLY INSPECTIONS OR AS INDICATED IN STORMWATER POLLUTION PREVENTION PLAN, OR THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.

C SEDIMENT RETENTION FIBER ROLL — NTS



B TEMPORARY CONCRETE WASHOUT FACILITY



NOTES:
1. CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF CORRUGATED STEEL "RUMBLE" PLATES WITH RIDGES FOR VIBRATION/DUST CONTROL ON HARDSCAPE SURFACE.
2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 30 FEET. WIDTH SHALL BE A MIN. OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.
3. CONTRACTOR SHALL UNDERLAY STEEL "RUMBLE" PLATES AS NECESSARY TO PROTECT EXISTING PAVING AND SPAN CURB HEIGHT.
4. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL RINSING.
5. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY.
6. TEMPORARY ACCESS RUMBLE PLATES SHALL BE REMOVED AT THE END OF THE PROJECT. AFFECTED AREA SHALL BE RETURNED TO AS WAS OR BETTER CONDITION.

A RUMBLE PLATE CONSTRUCTION ENTRY — NTS

NORTH
0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP
REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP


SHEET TITLE
EROSION CONTROL PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
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6		

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JC	CS
DATE ISSUED	SCALE
03/13/2020	1" =20'-0"
PROJ. NO.	
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SHEET NO.	
L3.1	

EROSION CONTROL PLAN

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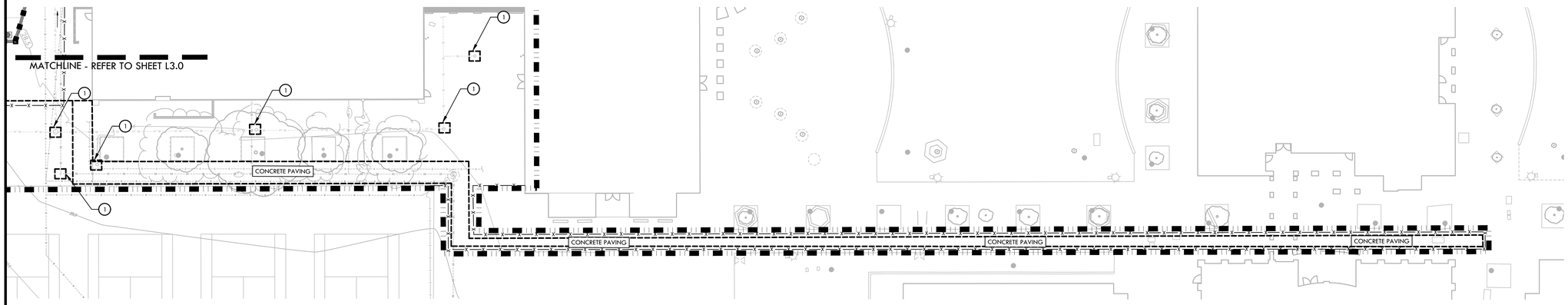

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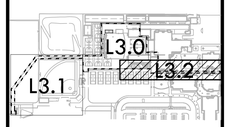

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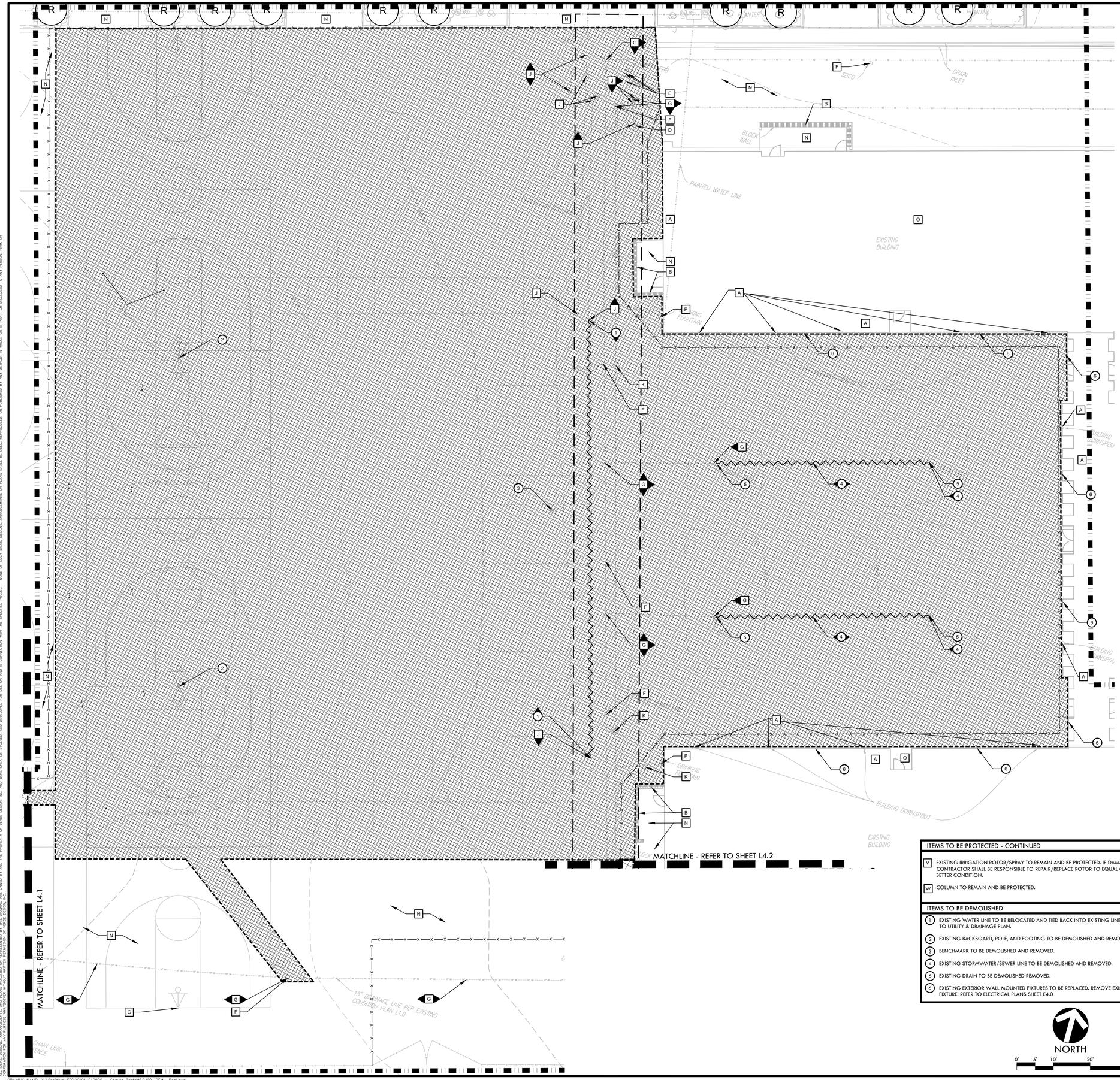

DEMOLITION NOTES

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3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
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5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). IT SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.
10. PRIOR TO TRENCHING, CONTRACTOR TO VERIFY LOCATION OF GAS LINE BY POTHOLING. SAW CUT FOR GAS LINE TRENCH TO ALIGN WITH EDGE OF CONCRETE AND END AT THE CONCRETE JOINT PAST THE POINT OF CONNECTION. OWNER'S REPRESENTATIVE TO APPROVE OF TRENCH LOCATION PRIOR TO TRENCHING.
11. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
	TEMPORARY CONSTRUCTION FENCE - ADJUST ACCORDINGLY TO SCHOOL SCHEDULE FOR ACCESS. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT FOR SCHOOL BELL SCHEDULE. CONTRACTOR SHALL MAINTAIN A 4' MININUM WIDE ACCESSIBLE PATH OF TRAVEL FOR STUDENTS AND FACULTY TO ACCESS ALL GYM DOORS, TENNIS COURTS AND ADJACENT PORTABLE BUILDINGS. IMPROVEMENTS AT THE EXISTING BASKETBALL COURTS AND MULTI USE FIELD TO BE EXPEDITED SO THAT MINIMAL CLOSURE IS REQUIRED.
#	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
#	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	DEMOLISH AND REMOVE EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL. REFER TO SPECIFICATIONS.
	SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSED IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION. POT HOLE FOR IRRIGATION BY HAND PRIOR TO EXCAVATION.
	DEMOLISH AND REMOVE EXISTING CURB, UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS
	SAWCUT - WHEN SAW CUTTING IN CONCRETE, CONTRACTOR TO SAW CUT AT CLOSEST CONCRETE JOINT.
	LIMIT OF CLEAR AND GRUB
	LIMIT OF POTHOLING - CONTRACTOR TO POTHOLE EVERY 50' SIMULTANEOUSLY FROM THE NORTH AND SOUTH IN THE AREA TO CONFIRM UTILITIES - GAS, WATER, SEWER, STORM, AND OTHERS PRIOR TO EXCAVATION. POTHOLE TO CONTINUE UNTIL SIZE, DEPTHS, AND LOCATION OF UTILITIES ARE CONFRIMED.
R	EXISTING TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS
	TREE SHALL BE DEMOLISHED AND REMOVED

ITEMS TO BE PROTECTED

- A BUILDING INCLUDING DOORS, WALLS, WINDOWS, DOWNSPOUTS, FA HORN AND SPEAKER TO REMAIN AND BE PROTECTED.
- B WALLS TO BE REMAIN AND BE PROTECTED.
- C BASKETBALL HOOPS AND POLES TO REMAIN AND BE PROTECTED.
- D FIRE HYDRANT TO REMAIN AND BE PROTECTED.
- E ELECTRICAL BOX TO REMAIN AND BE PROTECTED. SEE ELECTRICAL DRAWINGS.
- F CATCH BASIN OR STORM DRAIN CLEANOUT TO REMAIN AND BE PROTECTED. IF LID IS WITHIN NEW CONSTRUCTION, LIDS ARE TO BE SALVAGED, CONTRACTOR TO ADJUST LID TO PROPOSED GRADES AND PROTECT PIPES. REFER TO DRAINAGE PLANS.
- G STORM WATER/SEWER LINE TO REMAIN AND BE PROTECTED.
- H NOT USED
- I NOT USED
- J WATER LINE, PIPES, AND VALVES TO REMAIN AND BE PROTECTED. ADJUST LID TO PROPOSED GRADE. REFER TO DRAINAGE PLANS.
- K SEWER LID AND PIPES TO BE PROTECTED, ADJUST LID TO PROPOSED GRADE. REFER TO DRAINAGE PLANS.
- L NOT USED
- M TREE WELLS TO REMAIN AND BE PROTECTED.
- N HARDSCAPE TO REMAIN AND BE PROTECTED.
- O REFER TO ARCHITECTURAL PLANS FOR LOCKER ROOM MODIFICATIONS AND IMPROVEMENTS.
- P DRINKING FOUNTAIN TO REMAIN AND BE PROTECTED.
- Q SPORT FIELD LIGHT TO REMAIN AND BE PROTECTED
- R FENCE FABRIC TO BE PULLED BACK FOR ACCESS AND REINSTALLED IN AN AS-WAS OR BETTER CONDITION AFTER TRENCHING HAS BEEN COMPLETED.
- S EXISTING FENCE AND GATE TO REMAIN AND BE PROTECTED.
- T EXISTING IRRIGATION REMOTE CONTROL VALVES TO REMAIN AND BE PROTECTED. VALVES TO REMAIN OPERABLE DURING CONSTRUCTION.
- U EXISTING IRRIGATION WATER LINE (LATERAL OR MAIN LINE), PER DISTRICT PROVIDED AS-BUILT DRAWINGS, TO REMAIN AND BE PROTECTED. IF DAMAGED, CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR IRRIGATION LINE TO EQUAL OR BETTER CONDITION.

ITEMS TO BE PROTECTED - CONTINUED

- V EXISTING IRRIGATION ROTOR/SPRAY TO REMAIN AND BE PROTECTED. IF DAMAGED, CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR/REPLACE ROTOR TO EQUAL OR BETTER CONDITION.
- W COLUMN TO REMAIN AND BE PROTECTED.

ITEMS TO BE DEMOLISHED

1. EXISTING WATER LINE TO BE RELOCATED AND TIED BACK INTO EXISTING LINE. REFER TO UTILITY & DRAINAGE PLAN.
2. EXISTING BACKBOARD, POLE, AND FOOTING TO BE DEMOLISHED AND REMOVED.
3. BENCHMARK TO BE DEMOLISHED AND REMOVED.
4. EXISTING STORMWATER/SEWER LINE TO BE DEMOLISHED AND REMOVED.
5. EXISTING DRAIN TO BE DEMOLISHED REMOVED.
6. EXISTING EXTERIOR WALL MOUNTED FIXTURES TO BE REPLACED. REMOVE EXISTING FIXTURE. REFER TO ELECTRICAL PLANS SHEET E4.0

NORTH

0' 5' 10' 20' 30'

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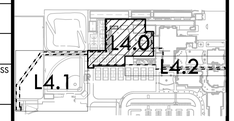

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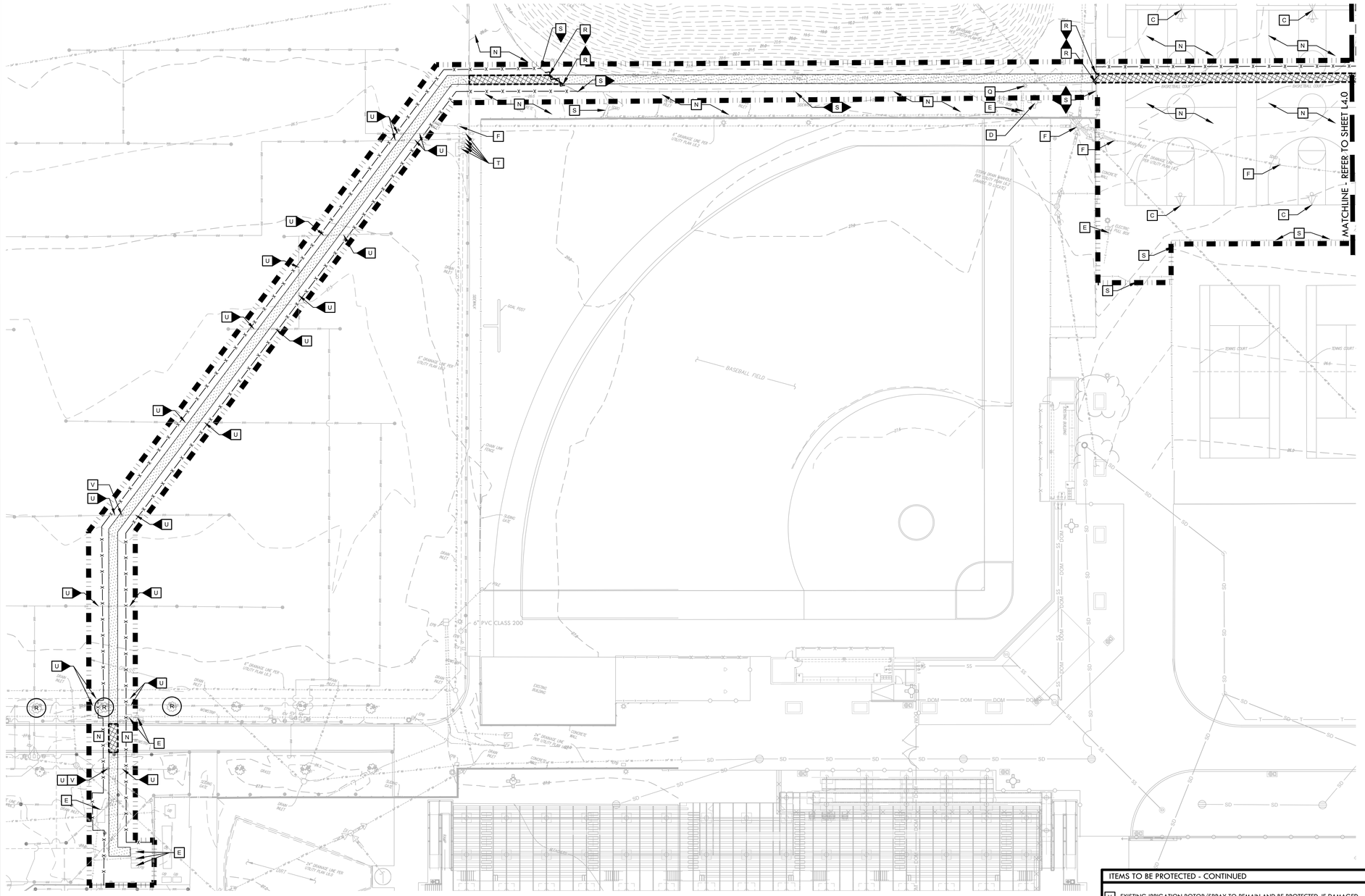

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3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). IT SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.
10. PRIOR TO TRENCHING, CONTRACTOR TO VERIFY LOCATION OF GAS LINE BY POTHOLING. SAW CUT FOR GAS LINE TRENCH TO ALIGN WITH EDGE OF CONCRETE AND END AT THE CONCRETE JOINT PAST THE POINT OF CONNECTION. OWNER'S REPRESENTATIVE TO APPROVE OF TRENCH LOCATION PRIOR TO TRENCHING.
11. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
	TEMPORARY CONSTRUCTION FENCE - ADJUST ACCORDINGLY TO SCHOOL SCHEDULE FOR ACCESS. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT FOR SCHOOL BELL SCHEDULE. CONTRACTOR SHALL MAINTAIN A 4' MININUM WIDE ACCESSIBLE PATH OF TRAVEL FOR STUDENTS AND FACULTY TO ACCESS ALL GYM DOORS, TENNIS COURTS AND ADJACENT PORTABLE BUILDINGS. IMPROVEMENTS AT THE EXISTING BASKETBALL COURTS AND MULTI USE FIELD TO BE EXPEDITED SO THAT MINIMAL CLOSURE IS REQUIRED.
(#)	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
#	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	DEMOLISH AND REMOVE EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL. REFER TO SPECIFICATIONS.
	SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSED IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION. POT HOLE FOR IRRIGATION BY HAND PRIOR TO EXCAVATION.
	DEMOLISH AND REMOVE EXISTING CURB, UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS
	SAWCUT - WHEN SAW CUTTING IN CONCRETE, CONTRACTOR TO SAW CUT AT CLOSEST CONCRETE JOINT.
	LIMIT OF CLEAR AND GRUB
	LIMIT OF POTHOLING - CONTRACTOR TO POTHOLE EVERY 50' SIMULTANEOUSLY FROM THE NORTH AND SOUTH IN THE AREA TO CONFIRM UTILITIES - GAS, WATER, SEWER, STORM, AND OTHERS PRIOR TO EXCAVATION. POTHOLE TO CONTINUE UNITL SIZE, DEPTHS, AND LOCATION OF UTILITIES ARE CONFRIMED.
R	EXISTING TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS
	TREE SHALL BE DEMOLISHED AND REMOVED

ITEMS TO BE PROTECTED

- A BUILDING INCLUDING DOORS, WALLS, WINDOWS, DOWNSPOUTS, FA HORN AND SPEAKER TO REMAIN AND BE PROTECTED.
- B WALLS TO BE REMAIN AND BE PROTECTED.
- C BASKETBALL HOOPS AND POLES TO REMAIN AND BE PROTECTED.
- D FIRE HYDRANT TO REMAIN AND BE PROTECTED.
- E ELECTRICAL BOX TO REMAIN AND BE PROTECTED. SEE ELECTRICAL DRAWINGS.
- F CATCH BASIN OR STORM DRAIN CLEANOUT TO REMAIN AND BE PROTECTED. IF LID IS WITHIN NEW CONSTRUCTION, LIDS ARE TO BE SALVAGED, CONTRACTOR TO ADJUST LID TO PROPOSED GRADES AND PROTECT PIPES. REFER TO DRAINAGE PLANS.
- G STORM WATER/SEWER LINE TO REMAIN AND BE PROTECTED.
- H NOT USED
- I NOT USED
- J WATER LINE, PIPES, AND VALVES TO REMAIN AND BE PROTECTED. ADJUST LID TO PROPOSED GRADE. REFER TO DRAINAGE PLANS.
- K SEWER LID AND PIPES TO BE PROTECTED, ADJUST LID TO PROPOSED GRADE. REFER TO DRAINAGE PLANS.
- L NOT USED
- M TREE WELLS TO REMAIN AND BE PROTECTED.
- N HARDSCAPE TO REMAIN AND BE PROTECTED.
- O REFER TO ARCHITECTURAL PLANS FOR LOCKER ROOM MODIFICATIONS AND IMPROVEMENTS.
- P DRINKING FOUNTAIN TO REMAIN AND BE PROTECTED.
- Q SPORT FIELD LIGHT TO REMAIN AND BE PROTECTED
- R FENCE FABRIC TO BE PULLED BACK FOR ACCESS AND REINSTALLED IN AN AS-WAS OR BETTER CONDITION AFTER TRENCHING HAS BEEN COMPLETED.
- S EXISTING FENCE AND GATE TO REMAIN AND BE PROTECTED.
- T EXISTING IRRIGATION REMOTE CONTROL VALVES TO REMAIN AND BE PROTECTED. VALVES TO REMAIN OPERABLE DURING CONSTRUCTION.
- U EXISTING IRRIGATION WATER LINE (LATERAL OR MAIN LINE), PER DISTRICT PROVIDED AS-BUILT DRAWINGS, TO REMAIN AND BE PROTECTED. IF DAMAGED, CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR IRRIGATION LINE TO EQUAL OR BETTER CONDITION.

ITEMS TO BE PROTECTED - CONTINUED

- V EXISTING IRRIGATION ROTOR/SPRAY TO REMAIN AND BE PROTECTED. IF DAMAGED, CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR/REPLACE ROTOR TO EQUAL OR BETTER CONDITION.
- W COLUMN TO REMAIN AND BE PROTECTED.

ITEMS TO BE DEMOLISHED

1. EXISTING WATER LINE TO BE RELOCATED AND TIED BACK INTO EXISTING LINE. REFER TO UTILITY & DRAINAGE PLAN.
2. EXISTING BACKBOARD, POLE, AND FOOTING TO BE DEMOLISHED AND REMOVED.
3. BENCHMARK TO BE DEMOLISHED AND REMOVED.
4. EXISTING STORMWATER/SEWER LINE TO BE DEMOLISHED AND REMOVED.
5. EXISTING DRAIN TO BE DEMOLISHED REMOVED.
6. EXISTING EXTERIOR WALL MOUNTED FIXTURES TO BE REPLACED. REMOVE EXISTING FIXTURE. REFER TO ELECTRICAL PLANS SHEET E4.0

NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

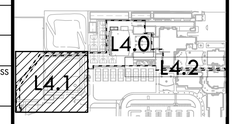
VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AC	CS
DATE ISSUED	SCALE
03/13/2020	1" = 20'-0"

PROJ. NO.
1910900-1211

SHEET NO.
L4.1

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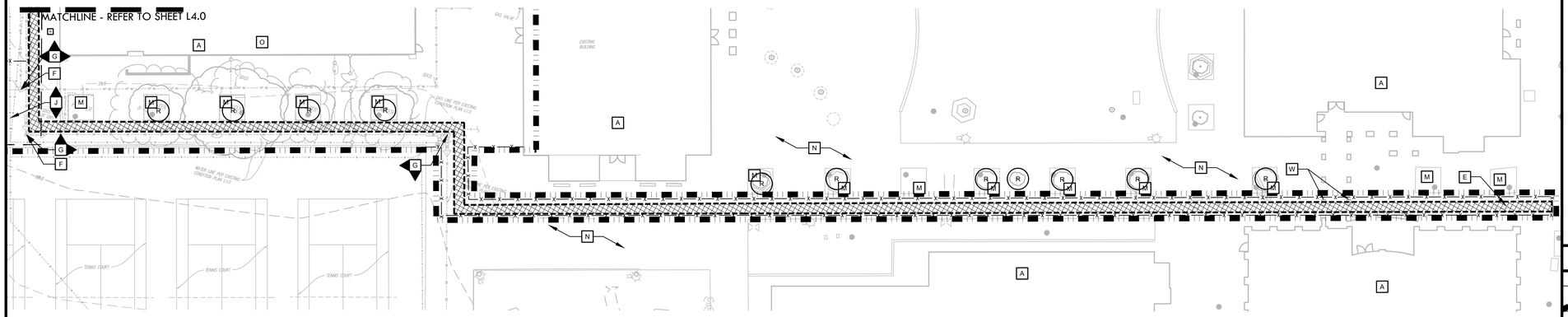
PLOT DATE: 04-28-20 PLOTTED BY: station46



EXISTING CONDITION OF FUTURE GAS TRENCH. SAW CUT AT CONCRETE JOINTS. REFER TO DEMOLITION NOTES

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
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5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
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DEMOLITION LEGEND

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#	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
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	SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSED IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION. POT HOLE FOR IRRIGATION BY HAND PRIOR TO EXCAVATION.
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	SAWCUT - WHEN SAW CUTTING IN CONCRETE, CONTRACTOR TO SAW CUT AT CLOSEST CONCRETE JOINT.
	LIMIT OF CLEAR AND GRUB
	LIMIT OF POTHOLING - CONTRACTOR TO POTHOLE EVERY 50' SIMULTANEOUSLY FROM THE NORTH AND SOUTH IN THE AREA TO CONFIRM UTILITIES - GAS, WATER, SEWER, STORM, AND OTHERS PRIOR TO EXCAVATION. POTHOLE TO CONTINUE UNTIL SIZE, DEPTHS, AND LOCATION OF UTILITIES ARE CONFRIMED.
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	TREE SHALL BE DEMOLISHED AND REMOVED

ITEMS TO BE PROTECTED

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- I NOT USED
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- K SEWER LID AND PIPES TO BE PROTECTED, ADJUST LID TO PROPOSED GRADE. REFER TO DRAINAGE PLANS.
- L NOT USED
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ITEMS TO BE PROTECTED - CONTINUED

- V EXISTING IRRIGATION ROTOR/SPRAY TO REMAIN AND BE PROTECTED. IF DAMAGED, CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR/REPLACE ROTOR TO EQUAL OR BETTER CONDITION.
- W COLUMN TO REMAIN AND BE PROTECTED.

ITEMS TO BE DEMOLISHED

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2. EXISTING BACKBOARD, POLE, AND FOOTING TO BE DEMOLISHED AND REMOVED.
3. BENCHMARK TO BE DEMOLISHED AND REMOVED.
4. EXISTING STORMWATER/SEWER LINE TO BE DEMOLISHED AND REMOVED.
5. EXISTING DRAIN TO BE DEMOLISHED REMOVED.
6. EXISTING EXTERIOR WALL MOUNTED FIXTURES TO BE REPLACED. REMOVE EXISTING FIXTURE. REFER TO ELECTRICAL PLANS SHEET E4.0

NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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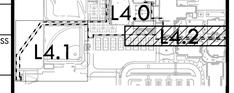
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

DEMOLITION PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AC	CS
DATE ISSUED	SCALE
03/13/2020	1" = 20'-0"

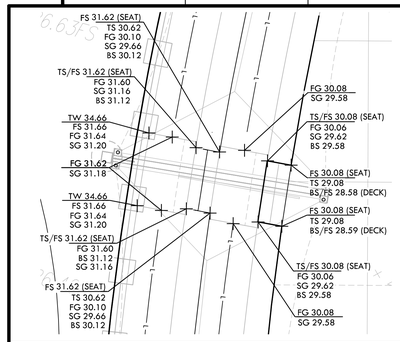
PROJ. NO. 1910900-1211

SHEET NO. L4.2

CUT & FILL VOLUME CALC'S*

*FOR REFERENCE ONLY

CUT VOLUME	FILL VOLUME	NET VOLUME
2,620 YD³	288 YD³	2,332 YD³ (CUT)



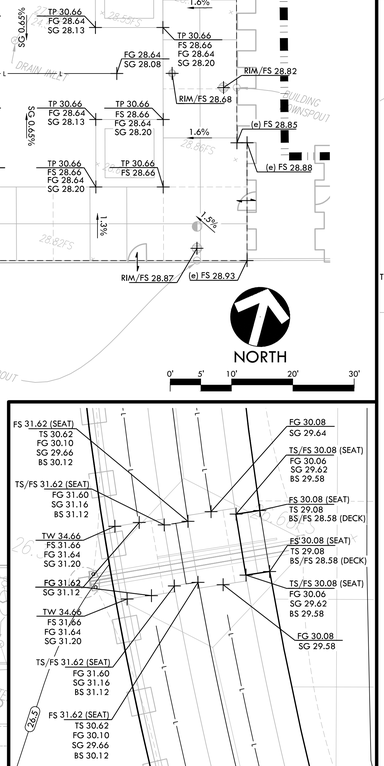
ENLARGEMENT A SCALE: 1"=5'-0"

GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: CALVADA SURVEYORS. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY OWNER REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
R	RIDGE LINE
L	LOW POINT AT SUBGRADE ELEVATION
GB GB	GRADE BREAK
(28.5)	PROPOSED CONTOUR
BS 28.50	PROPOSED BOTTOM OF STAIRS ELEVATION
FG 28.50	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FS 28.50	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
SG 28.50	PROPOSED SUBGRADE ELEVATION
TC 28.50	PROPOSED TOP OF CURB ELEVATION
TP 28.50	PROPOSED TOP OF PLANTER ELEVATION
TS 28.50	PROPOSED TOP OF STAIRS ELEVATION
TW 28.50	PROPOSED TOP OF WALL ELEVATION
RIM/FS 28.50	PROPOSED FINISH SURFACE/ RIM ELEVATION OF DRAIN
	CONFORM TO EXISTING GRADE
53	EXISTING CONTOUR
× 5.3	EXISTING ELEVATION
1.00%	SLOPE AND DIRECTION
(e)	EXISITNG



ENLARGEMENT B SCALE: 1"=5'-0"

ENLARGEMENT C SCALE: 1"=5'-0"

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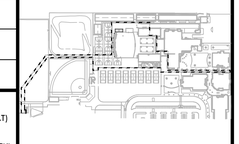
NO. 4190
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE
GRADING PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
QH	CS
DATE ISSUED	SCALE
03/13/2020	1" = 10'-0"
PROJ. NO.	
1910900-1211	
SHEET NO.	
L5.0	

DRAINAGE & UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT. VERIFY CONDITION OF EXISTING STRUCTURES WITH OWNER'S REPRESENTATIVE PRIOR TO FINAL FINISH GRADING.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
9. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION AT SANITARY SEWER POINT OF CONNECTIONS PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING.
10. PRIOR TO TRENCHING, CONTRACTOR TO VERIFY LOCATION OF GAS LINE BY POTHOLING. SAW CUT FOR GAS LINE TRENCH TO ALIGN WITH EDGE OF CONCRETE AND END AT THE CONCRETE JOINT PAST THE POINT OF CONNECTION.

DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
	JUNCTION BOX (JB), SIZE PER PLAN	A D1.0
	CATCH BASIN (CB), SIZE PER PLAN	A/L D1.0
	CLEANOUT IN SYNTHETIC TURF (CO)	D D1.0
	CLEANOUT IN HARDSCAPE (CO)	C D1.0
	CLEANOUT IN LANDSCAPE (CO)	K D1.0
	SANITARY SEWER CLEANOUT (SSCO)	G D1.0
	DOWNSPOUT CONNECTION (DS)	E D1.0
	SANITARY SEWER MANHOLE (SSMH)	N D1.0
PERF	PERFORATED SUBDRAIN (PERF), SIZE PER PLAN	B D1.0
SD	SOLID WALL STORM DRAIN (SD), SIZE PER PLAN	H D1.0
SS	SANITARY SEWER LINE (SS), SIZE PER PLAN	H D1.0
	TRENCH DRAIN (TD)	F D1.0
DOM	DOMESTIC WATER LINE (DOM), SIZE PER PLAN	H D1.0
	UTILITY WATER LINE TO BE LINE SIZED UNLESS OTHERWISE NOTED ON THE PLANS.	H D1.0
WD	WALL DRAIN (WD), SIZE PER PLAN	M D1.0
	PALM TREE PLANTER PERFORATED SUBDRAIN (PERF), SIZE PER PLAN	J D5.0
	DOMESTIC/UTILITY WATER GATE VALVE	B/C D5.0
	1-1/2" WILKINS REDUCED PRESSURE ASSEMBLY MODEL 975XL2	A D5.0
(e)	EXISTING	
DF	DRINKING FOUNTAIN	
INV	INVERT	
RIM	RIM ELEVATION	
TDCB	TRENCH DRAIN CATCH BASIN	
LF	LINEAR FEET	
S=0.5%	SLOPE	
MIN.	MINIMUM	
TOR	TOP OF ROCK	
(A)	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING.	
(B)	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN	
(C)	UTILITY WATER CONNECTION TO BUILDING. PRIOR TO CONSTRUCTION, CONTRACTOR VERIFY LOCATION AND SIZE OF EXISTING WATER LINE, TAP AND TEE NEW 3" LINE ONTO EXISTING WATER LINE AS SHOWN.	
(D)	STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING.	
(E)	SANITARY SEWER CONNECTION TO BUILDING DRAIN, REFER TO AQUATIC PLANS.	
(F)	SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING.	
(G)	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN	
(H)	UTILITY WATER LINE TO BE RE-ROUTED AS SHOWN. CONTRACTOR TO FIELD VERIFY SIZE AND PROVIDE SIMILAR LINE SIZE. CONTRACTOR TO AVOID USING 90° FITTINGS.	
(I)	WALL DRAIN TO STORM DRAIN CONNECTION	
(J)	TRENCH DRAIN TO STORM DRAIN CONNECTION	

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VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

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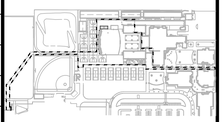
REGISTERED LANDSCAPE ARCHITECT
MARK S. BASTASZ
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

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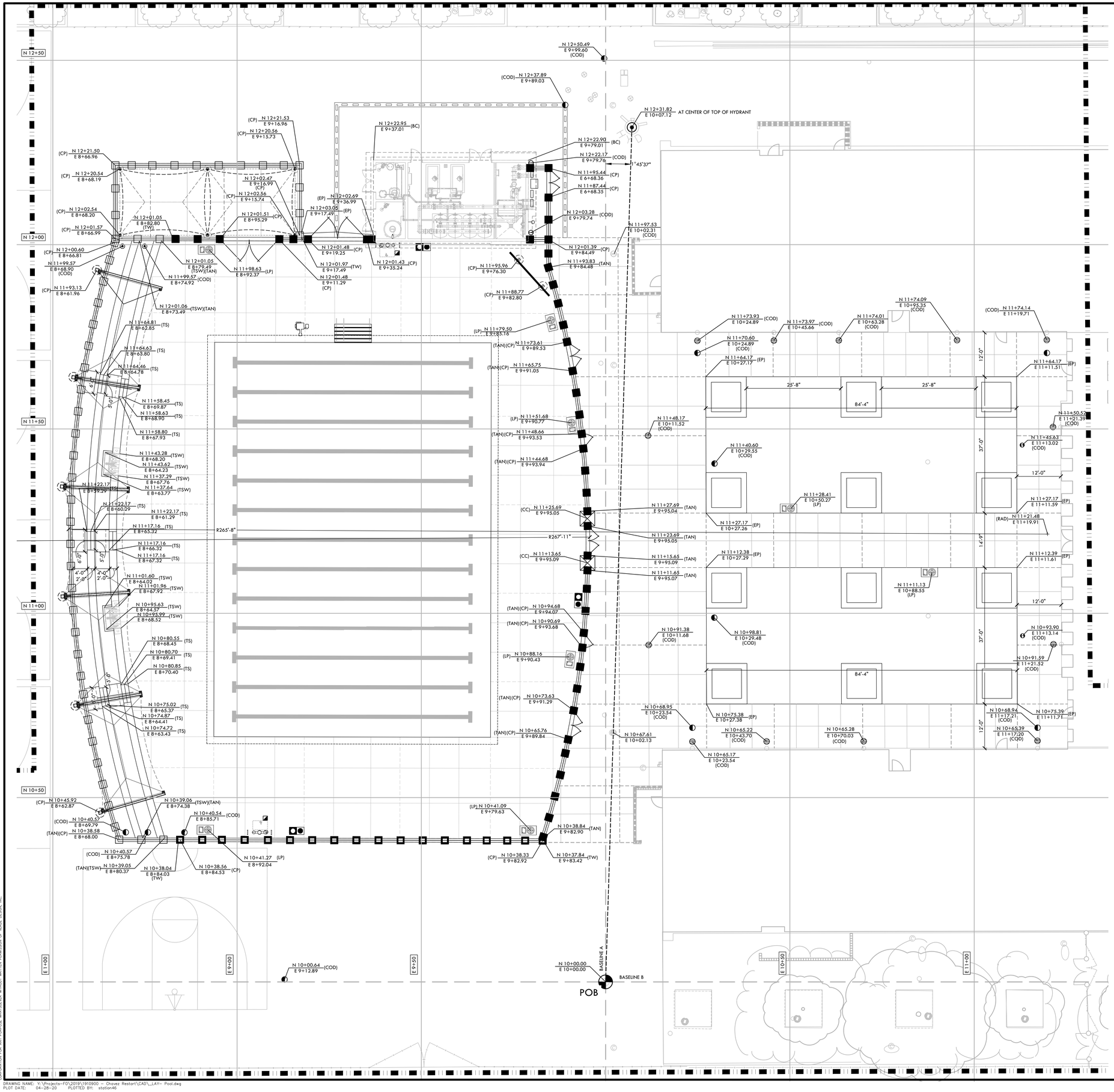
L6.0	

DRAINAGE AND UTILITY PLAN

NORTH
0' 5' 10' 20' 30'

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_DRN- Pool-C3D.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46



LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
	POINT OF BEGINNING (POB)
	CONTROL POINT
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N ##+##.## E#+##.##	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(POB)	POINT OF BEGINNING
(LP)	LIGHT POST
(COD)	CENTER OF DRAINAGE STRUCTURE
(CP)	CENTER OF POST
(CC)	CENTER OF COLUMN
(BC)	BUILDING CORNER
(TAN)	TANGENT POINT
(TS)	TOP OF STAIR
(TW)	TOP OF WALL
(RAD)	RADIUS
(EP)	EDGE OF PAVEMENT
(TSW)	TOP OF SEATWALL

NOTE:
1. POINT OF BEGINNING (POB) IS LOCATED AT CENTER OF STORM DRAIN INLET (RIM 28.37). CONTROL POINT IS LOCATED AT THE CENTER OF THE TOP OF EXISTING FIRE HYDRANT.
2. BASELINE A IS 1"45'37" FROM POB./ CONTROL POINT.
3. BASELINE B IS 90° FROM BASELINE A AT POB.
4. GRID IS 50' OFFSETS FROM EACH BASELINE.

NORTH
0' 5' 10' 20' 30'

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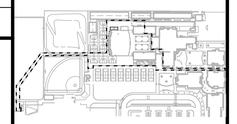

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

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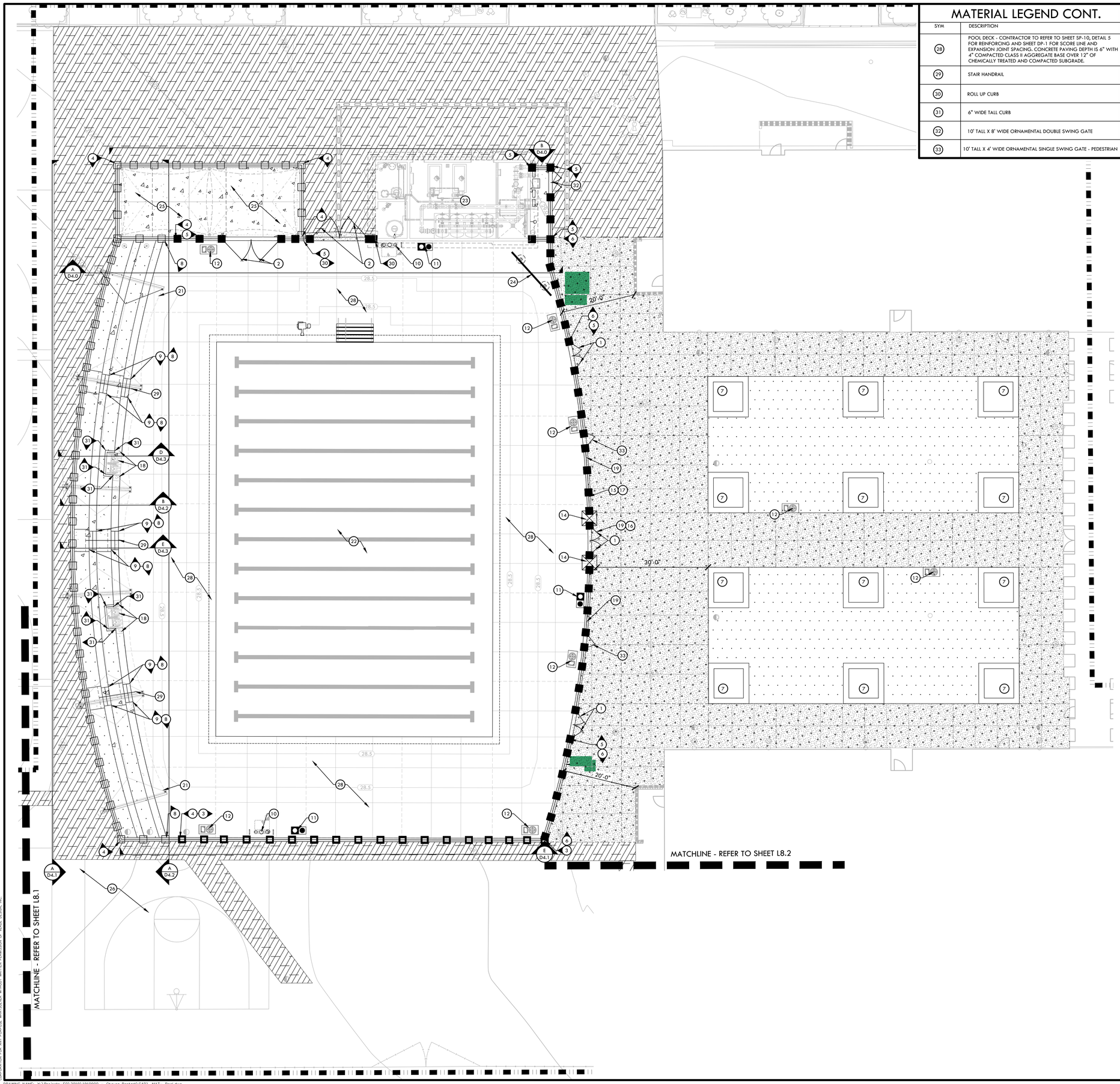
PROJ. NO.	
1910900-1211	
SHEET NO.	
L7.0	

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD__LAY- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46



MATERIAL LEGEND CONT.

SYM	DESCRIPTION	DTL REF
28	POOL DECK - CONTRACTOR TO REFER TO SHEET SP-10, DETAIL 5 FOR REINFORCING AND SHEET DP-1 FOR SCORE LINE AND EXPANSION JOINT SPACING. CONCRETE PAVING DEPTH IS 6" WITH 4" COMPACTED CLASS II AGGREGATE BASE OVER 12" OF CHEMICALLY TREATED AND COMPACTED SUBGRADE.	
29	STAIR HANDRAIL	C D4.3
30	ROLL UP CURB	L D2.0
31	6" WIDE TALL CURB	M D2.0
32	10' TALL X 8' WIDE ORNAMENTAL DOUBLE SWING GATE	L D3.0
33	10' TALL X 4' WIDE ORNAMENTAL SINGLE SWING GATE - PEDESTRIAN	Q D3.0

MATERIAL NOTES

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2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
	SYNTHETIC TURF	I D2.0
	PEDESTRIAN ASPHALT PAVING ON CHEMICALLY-TREATED SUBGRADE	A D2.0
	VEHICULAR ASPHALT PAVING ON CHEMICALLY-TREATED SUBGRADE	
	PEDESTRIAN CONCRETE PAVING ON CHEMICALLY-TREATED SUBGRADE	B D2.0
	VEHICULAR CONCRETE PAVING ON CHEMICALLY TREATED SUBGRADE	
	TURF AREAS DAMAGED DURING TRENCHING SHALL BE RE-SODDED AND BROUGHT BACK TO AN AS-WAS OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.	
	NATURAL VEGETATION AREAS DAMAGED DURING TRENCHING SHALL BE BROUGHT BACK TO AN AS-WAS OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.	
	EXPANSION JOINT - PER PLANS AND WHERE PROPOSED CONCRETE PAVING MEETS CONCRETE WALL OR EXISTING BUILDING	
	SCORE JOINT	C D2.0
	4' TALL ORNAMENTAL IRON FENCE IN 9'-0" - 11'-0" TALL WALL	G D3.0
	6' TALL ORNAMENTAL IRON FENCE IN 5'-6" - 7'6" TALL WALL	G D3.0
	10' TALL ORNAMENTAL IRON FENCE IN 12" WIDE EDGEBAND OR CURB	G D3.0 E D2.0 K D2.0
1	10' TALL X 8' WIDE ORNAMENTAL DOUBLE SWING GATE - PEDESTRIAN	H D3.0
2	10' TALL X 16' WIDE ORNAMENTAL DOUBLE SWING GATE	D D3.0
3	5'-6" - 7'-6" TALL CONCRETE WALL	D D4.0
4	9'-0" - 11'-0" TALL CONCRETE WALL	E D4.0
5	12" EDGEBAND WITH FENCE	E D2.0
6	12" TALL CURB WITH FENCE	K D2.0
7	SQUARE RAISED PLANTER	J D2.0
8	CONCRETE SEAT WALL	F D4.2
9	CONCRETE STAIRS	F D4.3
10	DRINKING FOUNTAIN WITH BOTTLE FILLER	J D1.0
11	TRASH/RECYCLING RECEPTACLE	F D2.0
12	PEDESTRIAN LIGHTING - REFER TO ELECTRICAL AND LIGHTING PLANS	
13	SCORE JOINTS AND EXPANSION JOINTS TO ALIGN WITH EXISTING CONTROL JOINTS	
14	POOL ENTRANCE COLUMNS	A D4.3
15	RULES SIGN	K D3.0
16	ACCESS SIGN	P D3.0
17	WELCOME SIGN	O D3.0
18	ACCESSIBLE SEATING WITH COMPANION SEAT	D D4.3
19	EMERGENCY ACCESS SIGN	N D3.0
20	FIRE ACCESS LANE SIGN	M D3.0
21	SHADE STRUCTURE AT SPECTATOR SEATING AREA - REFER TO USA SHADE STRUCTURE DRAWINGS	
22	POOL - REFER TO AQUATIC DRAWINGS AND SPECIFICATIONS	
23	POOL MECHANICAL BUILDING - REFER TO AQUATIC, STRUCTURAL AND ARCHITECTURAL PLANS	
24	SCOREBOARD - REFER TO AQUATIC DRAWINGS, ELECTRICAL DRAWINGS, AND SPECIFICATIONS	
25	SHADE STRUCTURE AT STORAGE AREA - REFER TO USA SHADE STRUCTURE DRAWINGS	
26	CONTRACTOR TO RE-STRIPE BASKETBALL COURT AFTER AC PAVING HAS BEEN COMPLETED.	
27	NOT USED	

NORTH

0' 5' 10' 20' 30'

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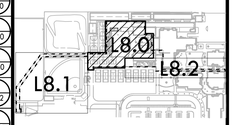

SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_MAT- Pool.dwg
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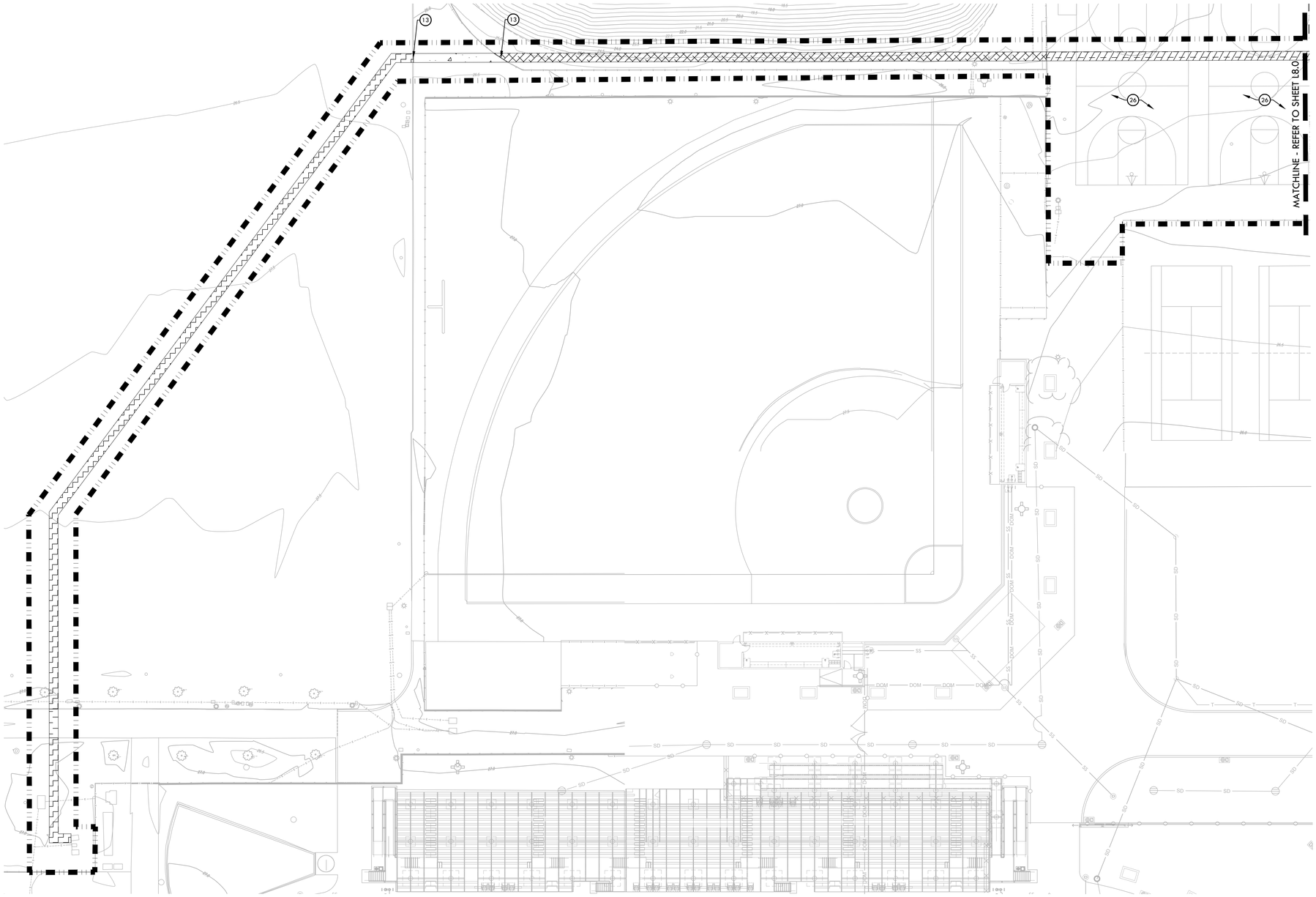

MATERIAL LEGEND CONT.

SYM	DESCRIPTION	DTL REF
28	POOL DECK - CONTRACTOR TO REFER TO SHEET SP-10, DETAIL 5 FOR REINFORCING AND SHEET DP-1 FOR SCORE LINE AND EXPANSION JOINT SPACING. CONCRETE PAVING DEPTH IS 6" WITH 4" COMPACTED CLASS II AGGREGATE BASE OVER 12" OF CHEMICALLY TREATED AND COMPACTED SUBGRADE.	
29	STAIR HANDRAIL	C D4.3
30	ROLL UP CURB	L D2.0
31	6" WIDE TALL CURB	M D2.0
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MATERIAL NOTES

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MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
	SYNTHETIC TURF	I D2.0
	PEDESTRIAN ASPHALT PAVING ON CHEMICALLY-TREATED SUBGRADE	A D2.0
	VEHICULAR ASPHALT PAVING ON CHEMICALLY-TREATED SUBGRADE	
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	NATURAL VEGETATION AREAS DAMAGED DURING TRENCHING SHALL BE BROUGHT BACK TO AN AS-WAS OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.	
	EXPANSION JOINT - PER PLANS AND WHERE PROPOSED CONCRETE PAVING MEETS CONCRETE WALL OR EXISTING BUILDING	C D2.0
	SCORE JOINT	
	4' TALL ORNAMENTAL IRON FENCE IN 9'-0" - 11'-0" TALL WALL	G D3.0
	6' TALL ORNAMENTAL IRON FENCE IN 5'-6" - 7'6" TALL WALL	G D3.0
	10' TALL ORNAMENTAL IRON FENCE IN 12" WIDE EDGEBAND OR CURB	G D3.0 / E D2.0 / K D2.0
1	10' TALL X 8' WIDE ORNAMENTAL DOUBLE SWING GATE - PEDESTRIAN	H D3.0
2	10' TALL X 16' WIDE ORNAMENTAL DOUBLE SWING GATE	D D3.0
3	5'-6" - 7'-6" TALL CONCRETE WALL	D D4.0
4	9'-0" - 11'-0" TALL CONCRETE WALL	E D4.0
5	12" EDGEBAND WITH FENCE	E D2.0
6	12" TALL CURB WITH FENCE	K D2.0
7	SQUARE RAISED PLANTER	J D2.0
8	CONCRETE SEAT WALL	F D4.2
9	CONCRETE STAIRS	F D4.3
10	DRINKING FOUNTAIN WITH BOTTLE FILLER	J D1.0
11	TRASH/RECYCLING RECEPTACLE	F D2.0
12	PEDESTRIAN LIGHTING - REFER TO ELECTRICAL AND LIGHTING PLANS	
13	SCORE JOINTS AND EXPANSION JOINTS TO ALIGN WITH EXISTING CONTROL JOINTS	
14	POOL ENTRANCE COLUMNS	A D4.3
15	RULES SIGN	K D3.0
16	ACCESS SIGN	P D3.0
17	WELCOME SIGN	O D3.0
18	ACCESSIBLE SEATING WITH COMPANION SEAT	D D4.3
19	EMERGENCY ACCESS SIGN	N D3.0
20	FIRE ACCESS LANE SIGN	M D3.0
21	SHADE STRUCTURE AT SPECTATOR SEATING AREA - REFER TO USA SHADE STRUCTURE DRAWINGS	
22	POOL - REFER TO AQUATIC DRAWINGS AND SPECIFICATIONS	
23	POOL MECHANICAL BUILDING - REFER TO AQUATIC, STRUCTURAL AND ARCHITECTURAL PLANS	
24	SCOREBOARD - REFER TO AQUATIC DRAWINGS, ELECTRICAL DRAWINGS, AND SPECIFICATIONS	
25	SHADE STRUCTURE AT STORAGE AREA - REFER TO USA SHADE STRUCTURE DRAWINGS	
26	CONTRACTOR TO RE-STRIPE BASKETBALL COURT AFTER AC PAVING HAS BEEN COMPLETED.	
27	NOT USED	

NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
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APP: 02-118018 INC:
REVIEWED FOR
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DATE: 01/19/2024

VERDE DESIGN
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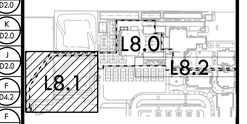
REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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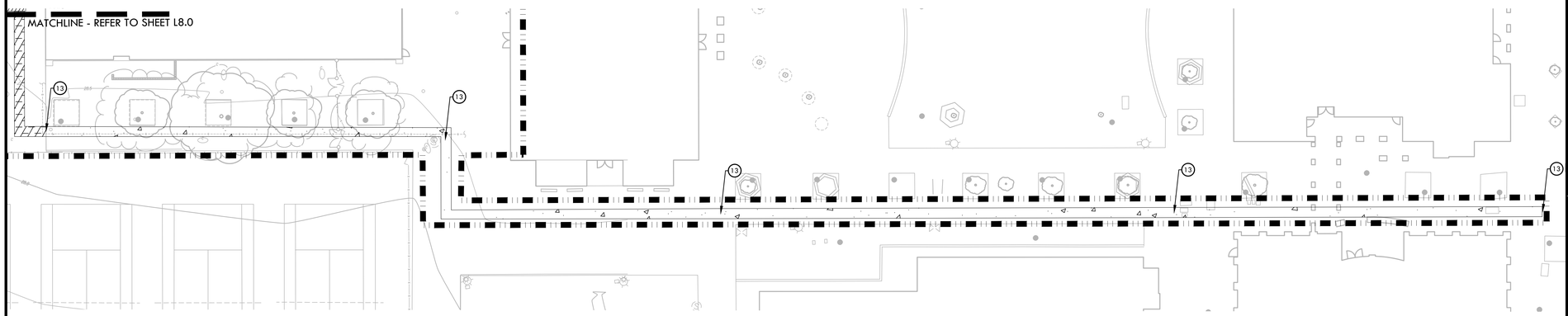
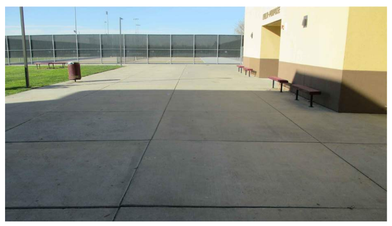
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
AC	CS
DATE ISSUED: 03/13/2020	SCALE: 1"=20'-0"
PROJ. NO.: 1910900-1211	
SHEET NO.: L8.1	

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_MAT- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46





13 EXISTING CONDITION OF FUTURE GAS TRENCH. MATCH EXISTING CONCRETE AND JOINT LOCATIONS. REFER TO DEMOLITION NOTES

MATERIAL LEGEND CONT.

SYM	DESCRIPTION	DTL REF
28	POOL DECK - CONTRACTOR TO REFER TO SHEET SP-10, DETAIL 5 FOR REINFORCING AND SHEET DP-1 FOR SCORE LINE AND EXPANSION JOINT SPACING. CONCRETE PAVING DEPTH IS 6" WITH 4" COMPACTED CLASS II AGGREGATE BASE OVER 12" OF CHEMICALLY TREATED AND COMPACTED SUBGRADE.	
29	STAIR HANDRAIL	C D4.3
30	ROLL UP CURB	L D2.0
31	6" WIDE TALL CURB	M D2.0
32	10' TALL X 8' WIDE ORNAMENTAL DOUBLE SWING GATE	L D3.0
33	10' TALL X 4' WIDE ORNAMENTAL SINGLE SWING GATE - PEDESTRIAN	Q D3.0

MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
	SYNTHETIC TURF	I D2.0
	PEDESTRIAN ASPHALT PAVING ON CHEMICALLY-TREATED SUBGRADE	A D2.0
	VEHICULAR ASPHALT PAVING ON CHEMICALLY-TREATED SUBGRADE	
	PEDESTRIAN CONCRETE PAVING ON CHEMICALLY-TREATED SUBGRADE	B D2.0
	VEHICULAR CONCRETE PAVING ON CHEMICALLY TREATED SUBGRADE	
	TURF AREAS DAMAGED DURING TRENCHING SHALL BE RE-SODDED AND BROUGHT BACK TO AN AS-WAS OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.	
	NATURAL VEGETATION AREAS DAMAGED DURING TRENCHING SHALL BE BROUGHT BACK TO AN AS-WAS OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.	
	EXPANSION JOINT - PER PLANS AND WHERE PROPOSED CONCRETE PAVING MEETS CONCRETE WALL OR EXISTING BUILDING	C D2.0
	SCORE JOINT	
	4' TALL ORNAMENTAL IRON FENCE IN 9'-0" - 11'-0" TALL WALL	G D3.0
	6' TALL ORNAMENTAL IRON FENCE IN 5'-6" - 7'6" TALL WALL	G D3.0
	10' TALL ORNAMENTAL IRON FENCE IN 12" WIDE EDGEBAND OR CURB	G D3.0, E D2.0, K D2.0
1	10' TALL X 8' WIDE ORNAMENTAL DOUBLE SWING GATE - PEDESTRIAN	H D3.0
2	10' TALL X 16' WIDE ORNAMENTAL DOUBLE SWING GATE	D D3.0
3	5'-6" - 7'-6" TALL CONCRETE WALL	D D4.0
4	9'-0" - 11'-0" TALL CONCRETE WALL	E D4.0
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SWIMMING POOL

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PROJ. NO.
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SHEET NO.
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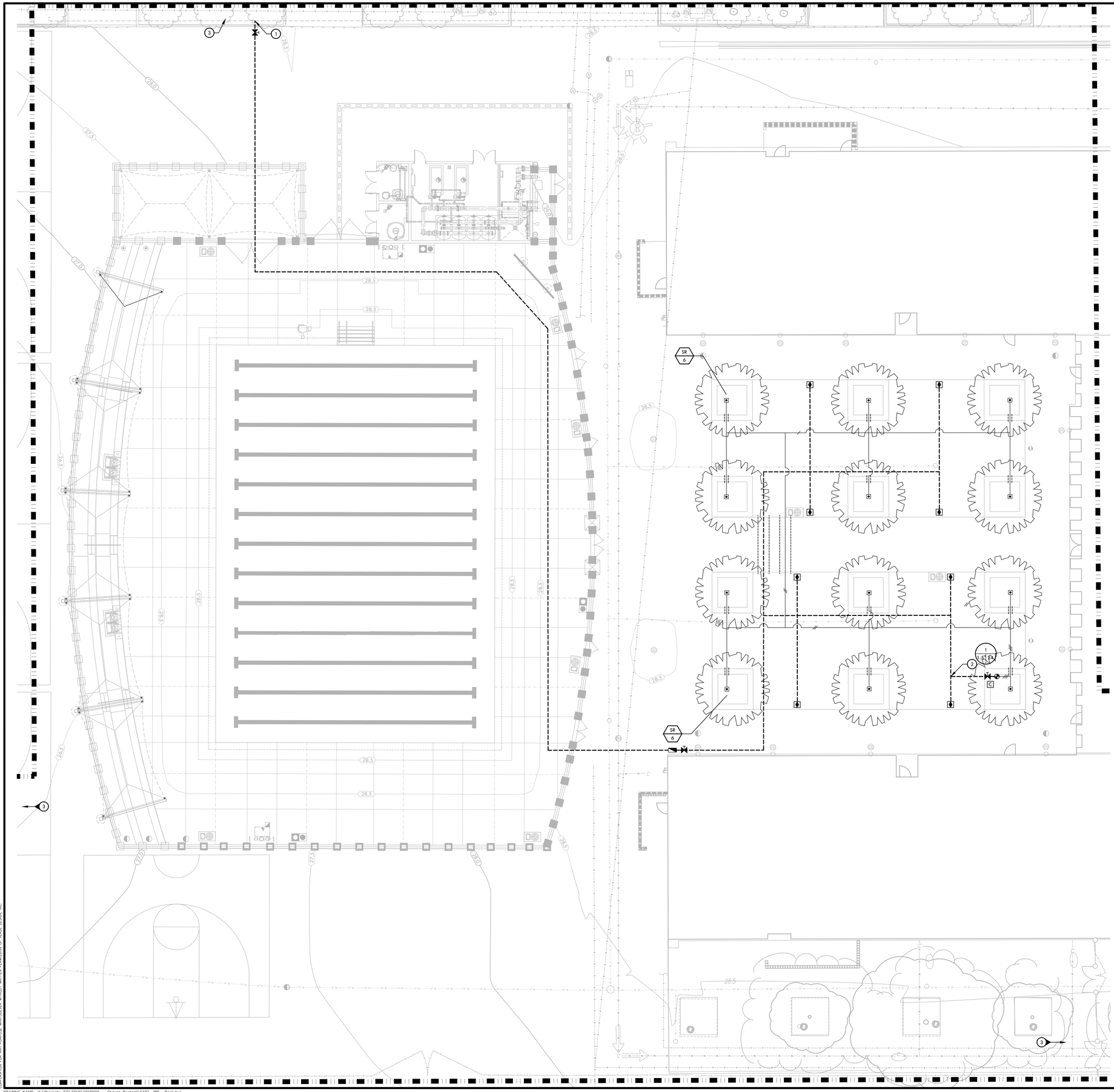
PLOT DATE: 04-28-20 PLOTTED BY: station46



IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (30) GPM WITH A MINIMUM (50) STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
3. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK, INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
4. CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
5. CONTRACTOR SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
6. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
7. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION LEGEND

SYM.	ITEM	MODEL NO./ DESCRIPTION	CAT. RAD./ DES. RAD	GPM	PSI	DTL REF
	BUBBLER	HUNTER: RZWS-18-50-CV ROOT WATER ASSEMBLY SYMBOL INDICATES 2 PER PALM TREE PLANTER	-	0.5		K D5.0
	REMOTE CONTROL VALVE	HUNTER: ICV SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULATOR - SIZE AS NOTED				E D5.0
C	IRRIGATION CONTROLLER	HUNTER: NODE-400-458200. 4 STATION BATTERY OPERATED CONTROLLER WITH DC LATCHING SOENOID. CONTROLLER TO BE INSTALLED INSIDE OF VALVE BOX				
	GATE VALVE	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				S/C D5.0
	QUICK COUPLER VALVE	RAIN BIRD: 44LRC QUICK COUPLING VALVE IN SYNTHETIC TURF				G D5.0
	REDUCED PRESSURE BACKFLOW	WILKENS: 1/2", MODEL 975XL REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY. CONTRACTOR TO INSTALL ASSEMBLY 1'-2' AWAY FROM EXISTING ADJACENT BUILDING, AVOID PLACING ASSEMBLY IN PATH OF TRAVEL.				A D5.0
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				H D5.0
	LATERAL LINE	1" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				
	LATERAL LINE	1-1/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				
	LATERAL LINE	1-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER.				
	MAINLINE	2" SCHEDULE 40 PVC WITH RING - TITE CONNECTIONS WITH 24" COVER.				H D5.0
	SLEEVES	IRRIGATION SLEEVE - CLASS 200 PVC, SIZE TO BE MIN. TWO TIMES THE TOTAL OF PIPE DIAMETER INSIDE SLEEVE WITH 30" COVER.				H D5.0
	EXISTING MAINLINE	EXISTING IRRIGATION MAINLINE PER DISTRICT AS-BUILT DRAWINGS TO REMAIN. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE PRIOR TO CONSTRUCTION.				
1		MAIN LINE POINT OF CONNECTION FOR QUICK COUPLERS AND PALM TREE IRRIGATION SYSTEM: CONTRACTOR TO FIELD VERIFY LOCATION AND SIZE OF EXISTING IRRIGATION MAIN LINE. CONTRACTOR TO TAP AND TEE ONTO EXISTING MAIN LINE AND EXTEND NEW MAIN LINE AS SHOWN PER PLANS.				
2		MAIN LINE POINT OF CONNECTION FOR PALM TREE IRRIGATION SYSTEM: CONTRACTOR TO TEE INTO NEW MAIN LINE AND EXTEND MAIN LINE AS SHOWN ON DRAWINGS. INSTALL NEW GATE VALVE AND VALVE ADJACENT TO PLANTER.				
3		CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGED EXISTING IRRIGATION EQUIPMENT TO AS-WAS OR BETTER CONDITION LOCATED WITHIN THE LIMIT OF WORK AREA INCLUDING BUT NOT LIMITED TO THIS SHEET. REFER TO DEMOLITION PLAN FOR ADDITIONAL INFORMATION.				
		LIMIT OF WORK				
1 / 1" | 1.5		CONTROLLER STATION NUMBER / APPROX. GPM FLOW THROUGH VALVE / CONTROL VALVE SIZE				

PLANTING NOTES

1. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. ALL TURF, MULCH AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.

PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/ COMMON NAME	SPACING/ COMMENTS	DTL REF
TREES					
SR	12	MIN. CLEAN TRUNK FOOT MEASURING 10'-15'.	WASHINGTONIA ROBUSTA MEXICAN FAN PALM	PER PLAN	L D5.0

NORTH

0' 5' 10' 20' 30'

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_IRR- Pool.dwg
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IRRIGATION AND PLANTING PLAN

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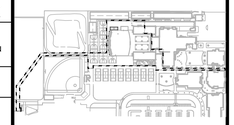

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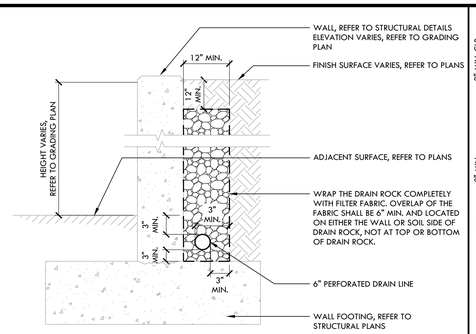
Q

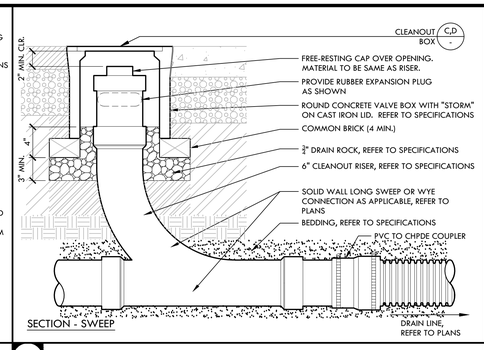
M

WALL DRAIN NTS



I

STORM DRAIN CLEANOUT



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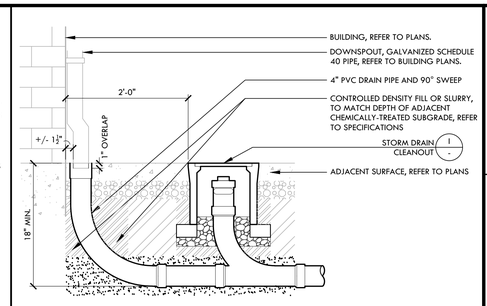
DOWNSPOUT CONNECTION NTS

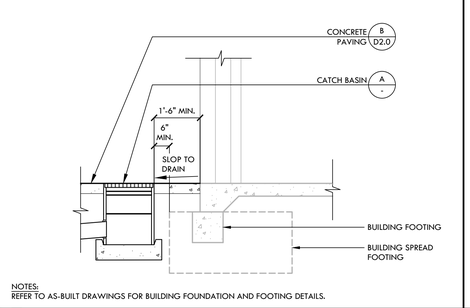


P

O

L

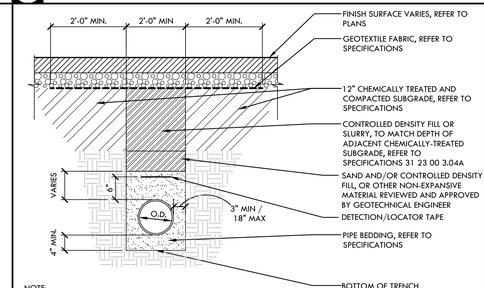
CATCH BASIN AT EXISTING DOWNSPOUT NTS



NOTES:
REFER TO AS-BUILT DRAWINGS FOR BUILDING FOUNDATION AND FOOTING DETAILS.

H

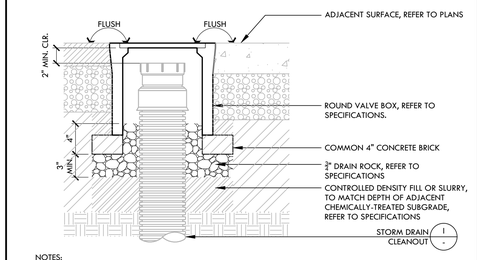
TRENCH REPAIR FOR CHEMICAL-TREATMENT AREAS NTS



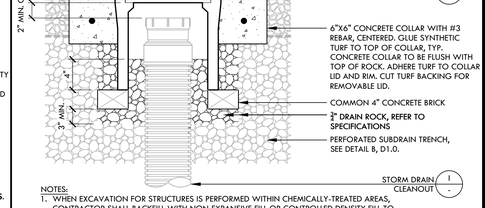
NOTE:
1. **TRENCHING AFTER CHEMICAL TREATMENT SHALL REQUIRE SAWCUT OF THE TRENCH TO PROVIDE CLEAN EDGES.**
2. CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS.
3. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL MATERIAL.

D

CLEANOUT IN SYNTHETIC TURF NTS



NOTES:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.



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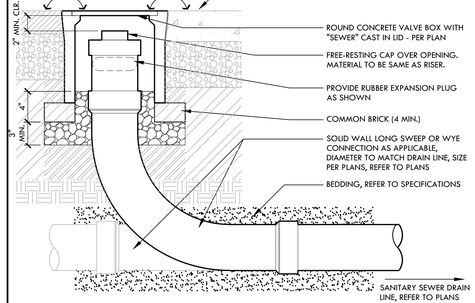
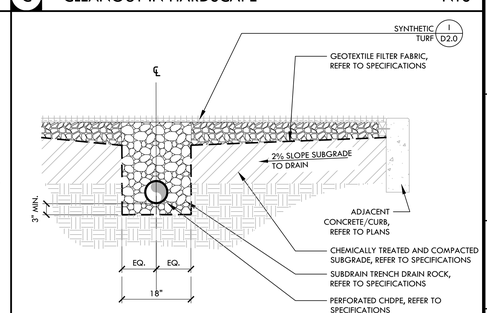
G

SANITARY SEWER CLEANOUT NTS



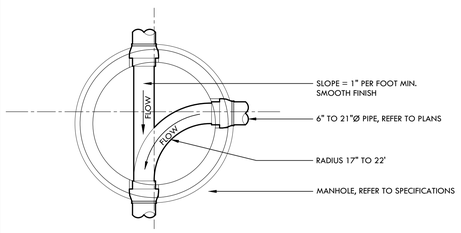
C

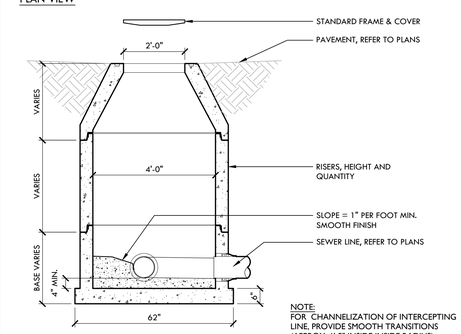
CLEANOUT IN HARDSCAPE NTS



N

SANITARY SEWER MANHOLE NTS

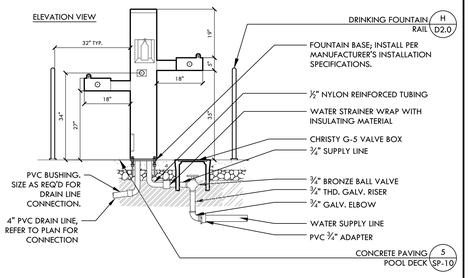


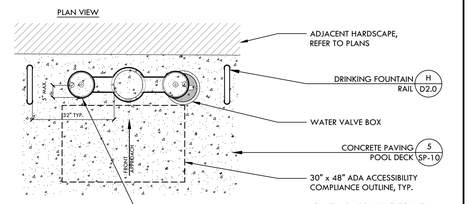


NOTE:
FOR CHANNELIZATION OF INTERCEPTING LINE. PROVIDE SMOOTH TRANSITIONS (APPROX. 1'-8" INSIDE INSIDE RADIUS) TOWARDS DOWNSTREAM FLOW OF MAN.

J

DRINKING FOUNTAIN WITH BOTTLE FILLER NTS

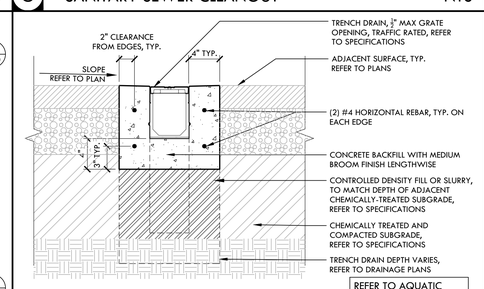




NOTES:
1. MEETS ADA REGULATIONS. ALL DRINKING FOUNTAINS TO BE INSTALLED CLEAR OF ACCESSIBLE PATH OF TRAVEL.
2. REFER TO SPECIFICATIONS FOR MODEL NUMBER.
3. FOUNTAIN SHALL HAVE SAME DIRECTION OF APPROACH FOR BOTTLE FILLER, HI & LO USERS.
4. DRINKING FOUNTAIN BUTTONS TO FACE TOWARD APPROACH.
5. CONTRACTOR TO COORDINATE INSTALLATION OF FOOTINGS FOR DRINKING FOUNTAIN AND ASSOCIATIVE RAILINGS WITH ADJACENT FOUNDATION.
6. CONTRACTOR TO REVIEW JOINTING PRIOR TO POUR

F

TRENCH DRAIN NTS



NOTE:
1. PROVIDE SAW CUT JOINT 8' ON CENTER AND ALIGN WITH FENCE POSTS (AS APPLICABLE).
2. JOINTS TO BE ON BOTH SIDE OF GRATE.

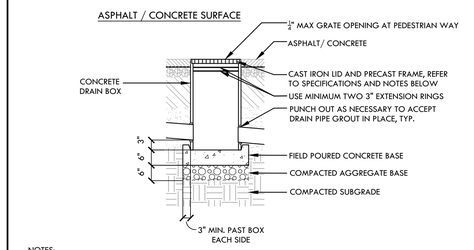
REFER TO AQUATIC DESIGN PLANS, SHEET SP-11, FOR SLOT DRAIN AT THE POOL DECK.

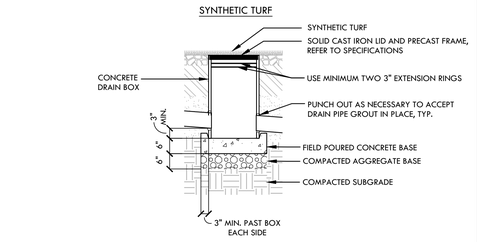
B

PERFORATED SUBDRAIN NTS

A

CATCH BASIN / JUNCTION NTS





NOTES:
1. SET CATCH BASIN RIM FLUSH WITH ADJACENT GRADE (REFER TO DETAILS ABOVE). VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT)
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.
6. CERTAIN LID SIZES AND/OR ADA COMPLIANT LIDS MAY NOT BE AVAILABLE AND MAY NEED TO BE FABRICATED.
7. ALL GRATES LOCATED WITHIN VEHICULAR TRAFFIC AREAS ARE TO BE TRAFFIC-RATED. ALL GRATES LOCATED WITHIN PEDESTRIAN TRAFFIC AREAS ARE TO BE ADA COMPLIANT.
8. ENSURE PROPER COMPACTION AROUND BASIN/BOX IN SYNTHETIC TURF TO PREVENT SETTLING AROUND EDGE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

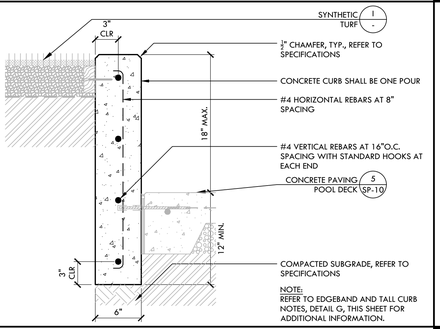
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		
7		

DRAWN BY	CHECKED BY
	CS
DATE ISSUED	SCALE
03/13/2020	
PROJ. NO.	
1910900-1211	
SHEET NO.	
D1.0	

DRAINAGE AND UTILITY DETAILS

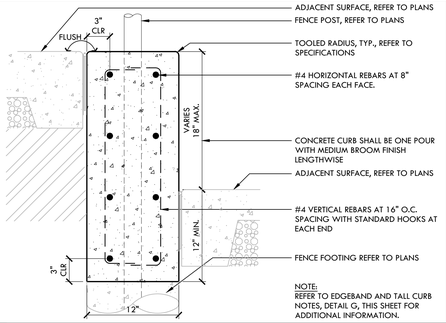
DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D1.0-DRN- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46

N



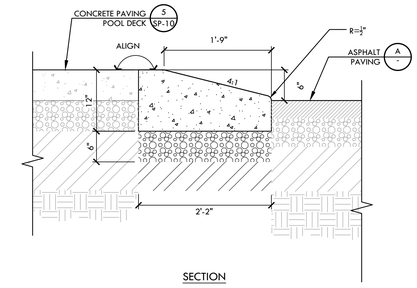
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL G, THIS SHEET FOR ADDITIONAL INFORMATION.

M 6" WIDE TALL CURB NTS



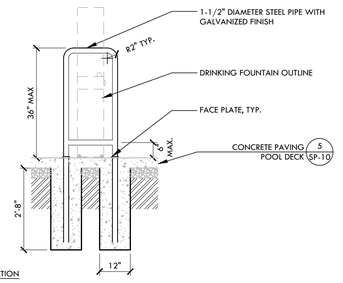
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL G, THIS SHEET FOR ADDITIONAL INFORMATION.

K 12" WIDE TALL CURB WITH FENCE NTS



SECTION

L ROLL UP CURB NTS



SAFETY RAIL SECTION

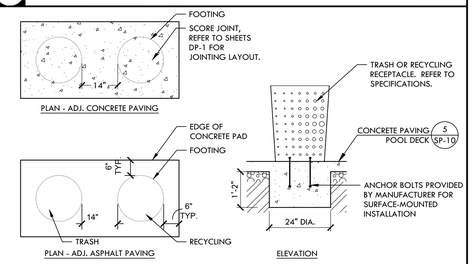
H DRINKING FOUNTAIN RAIL

NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:
1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL EXPANSION JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL SCORE JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL SCORE JOINTS AT 10' O.C. SPACING AND FIBER EXPANSION JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, FIBER EXPANSION JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING SCORE JOINTS AT 5' O.C. SPACING.
3. ALL EXPANSION JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL CURB DETAILS:
1. PROVIDE EXPANSION JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT., AS PER DETAIL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A ½" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ½" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL EXPANSION JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO SCORE JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

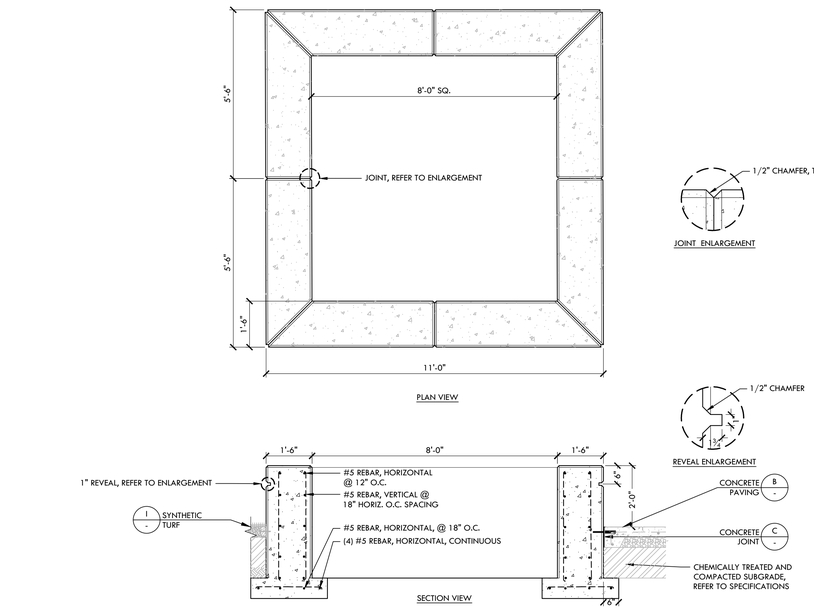
FINISHES
EDGEBANDS AND CURBS: MEDIUM BROOM
WALLS: SMOOTH ARCHITECTURAL FINISH

G EDGEBAND AND CURB NOTES NTS



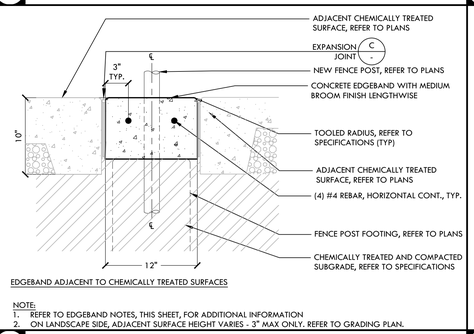
NOTES:
1. FOR ADDITIONAL INSTALLATION INFORMATION, REFER TO MANUFACTURER'S RECOMMENDATIONS.
2. TRASH RECEPTACLE IS TO BE PANTONE BLACK WITH PANTONE COLOR WHITE LETTERING. RECYCLING RECEPTACLE IS TO BE PANTONE COLOR WHITE WITH PANTONE BLACK LETTERING.
3. FOR INSTALLATION WHERE ADJACENT PAVING IS CONCRETE, IT IS INTENDED THAT THE PAVEMENT BE POURED FOR RECEPTACLES AT SAME TIME TO PROVIDE UNIFORM AND CONTINUOUS SURFACE WHERE APPLICABLE.

F TRASH AND RECYCLING RECEPTACLE PAD NTS



NOTE:
1. OUTER RADIUS EXPOSED CONCRETE TO HAVE SMOOTH FINISH.

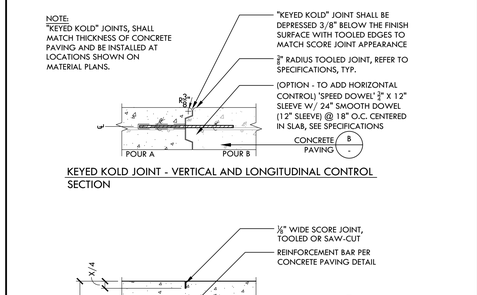
J SQUARE RAISED PLANTER NTS



EDGEBAND ADJACENT TO CHEMICALLY TREATED SURFACES

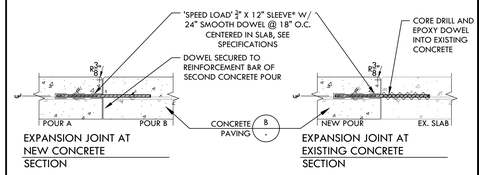
NOTE:
1. REFER TO EDGEBAND NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.

E 12" EDGEBAND WITH FENCE NTS



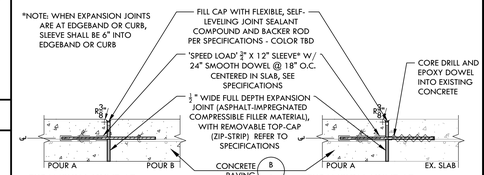
KEYED KOLD JOINT - VERTICAL AND LONGITUDINAL CONTROL
SECTION

SCORE JOINT
SECTION



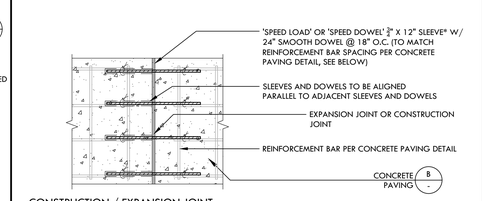
EXPANSION JOINT AT NEW CONCRETE
SECTION

EXPANSION JOINT AT EXISTING CONCRETE
SECTION



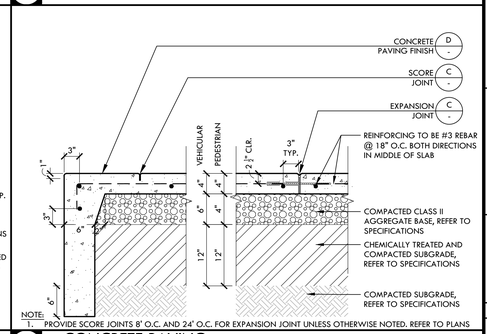
EXPANSION JOINT AT NEW CONCRETE
SECTION

EXPANSION JOINT AT EXISTING CONCRETE
SECTION



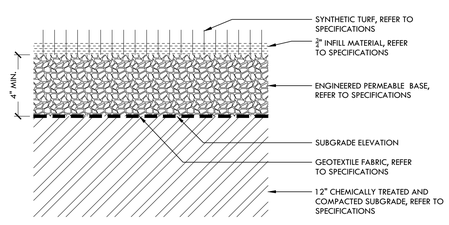
CONSTRUCTION / EXPANSION JOINT
PLAN

C CONCRETE JOINTS NTS

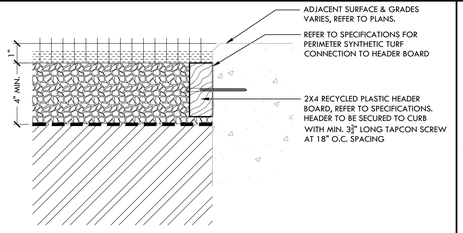


NOTE:
1. PROVIDE SCORE JOINTS 8' O.C. AND 24' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED. REFER TO PLANS

B CONCRETE PAVING ON CHEMICALLY-TREATED SUBGRADE NTS



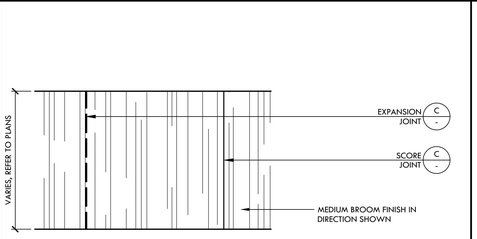
SYNTHETIC TURF SECTION



SYNTHETIC TURF CONNECTION

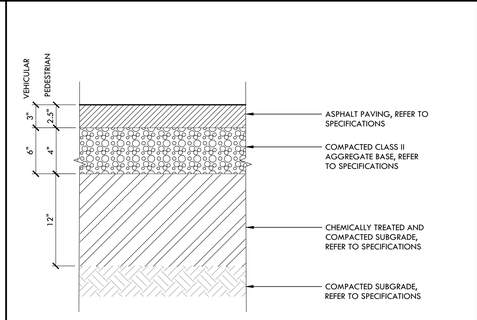
SYNTHETIC TURF NOTES:
1. INFILL 3/4" MAX LOWER THAN ADJACENT SURFACE UNLESS ADJACENT SURFACE IS VERTICAL CURB OR WALL
2. FINISHED GRADE OF TURF IS AT INFILL HEIGHT

I SYNTHETIC TURF NTS



NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

D CONCRETE PAVING FINISH NTS



A ASPHALT PAVING NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BROTSKY
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - HARDSCAPE

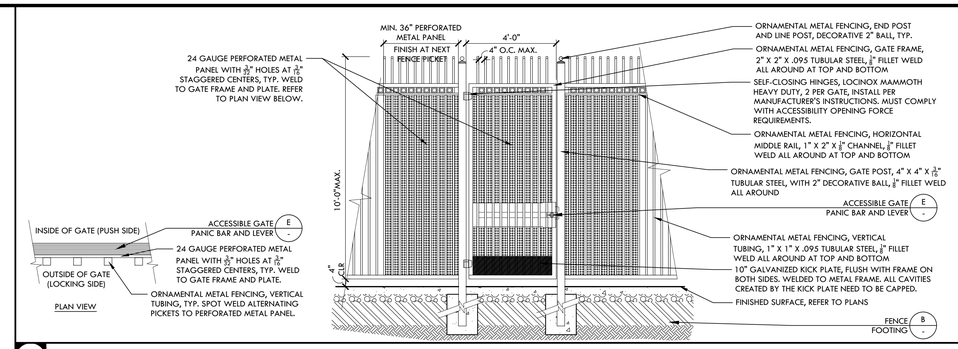
PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

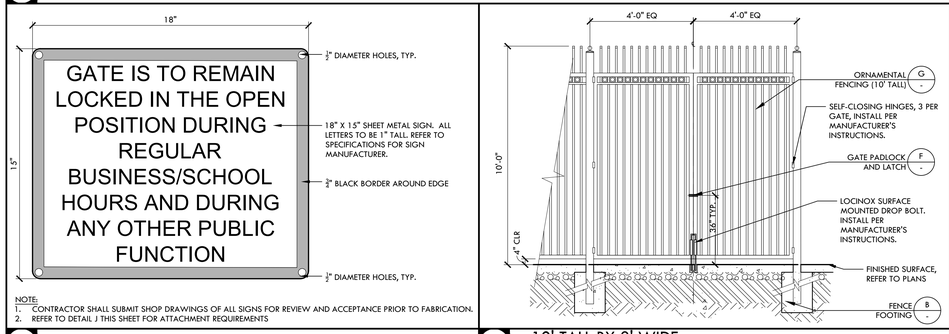
NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. D2.0



Q 10' TALL X 4' WIDE ORNAMENTAL SINGLE SWING GATE - PEDESTRIAN — NTS

H 10' TALL X 8' WIDE ORNAMENTAL DOUBLE SWING GATE - PEDESTRIAN — NTS



NOTE:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL SIGNS FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION.
2. REFER TO DETAIL J THIS SHEET FOR ATTACHMENT REQUIREMENTS

P ACCESS SIGN — NTS

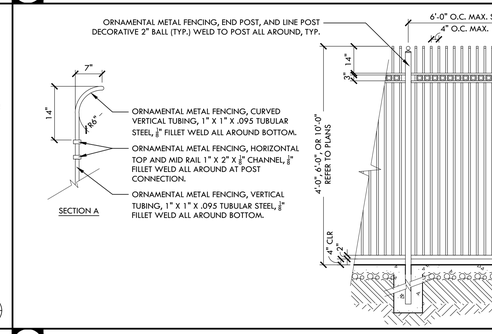
NOTE:
1. SIGN TO BE ATTACHED TO FENCE, PER DETAIL K. REFER TO CBC ACCESSIBLE STANDARDS FOR MOUNTING HEIGHTS.
2. FOR SIGNS ATTACHED TO POST, 3/8" HOLE ARE NOT REQUIRED. SIGN TO BE BOLTED ONTO POST. REFER TO DETAIL J.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE DETAILED ON PLANS FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION. METAL WILL BE ALUMINUM. NO OTHER SPECIFICATIONS ARE PROVIDED BEYOND DETAILS.

O WELCOME SIGN — NTS

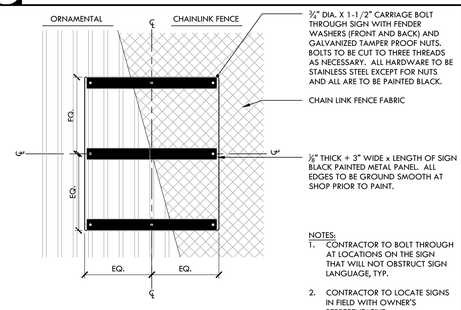
L 10' TALL BY 8' WIDE ORNAMENTAL DOUBLE SWING GATE — NTS

NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE DETAILED ON PLANS. METAL WILL BE ALUMINUM. NO OTHER SPECIFICATIONS ARE PROVIDED BEYOND DETAILS.
2. REFERENCE DETAIL K FOR FENCE ATTACHMENT.
3. FOR SIGNS ATTACHED TO POST, 3/8" HOLE ARE NOT REQUIRED. SIGN TO BE BOLTED ONTO POST. REFER TO DETAIL J.

G ORNAMENTAL FENCE (4', 6', OR 10' TALL) — NTS

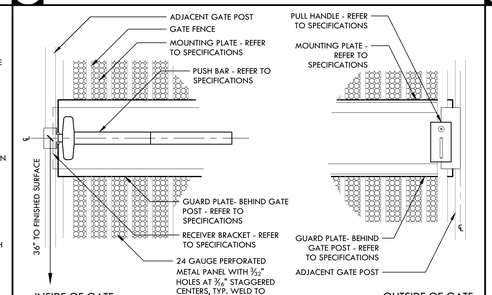


K RULES SIGN — NTS



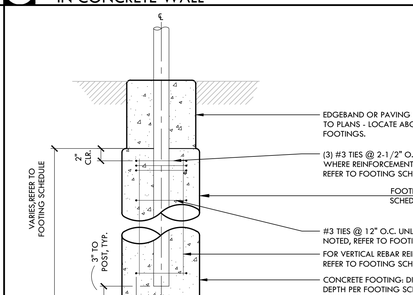
NOTES:
1. CONTRACTOR TO BOLT THROUGH AT LOCATIONS ON THE SIGN THAT WILL NOT OBSTRUCT SIGN LANGUAGE, TYP.
2. CONTRACTOR TO LOCATE SIGNS IN FIELD WITH OWNER'S REPRESENTATIVE.

F GATE PADLOCK AND LATCH — NTS

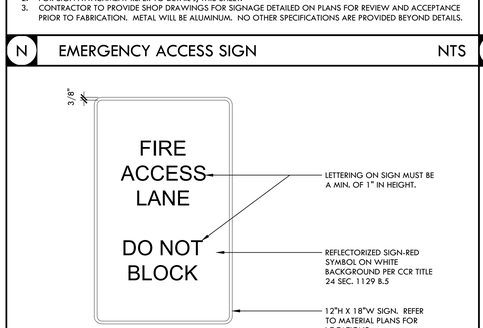


NOTES:
1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION.
2. GATE LATCH WIDTH TO VARY BASED ON GATE/FENCE POST DIMENSIONS.
3. ALL WELDING TO BE DONE IN THE FIELD AND EDGES TO BE GROUND SMOOTH. PRIMER AND TWO COATS OF BLACK PAINT TO BE APPLIED TO WELDS.
4. SEE GATE AND FENCE NOTES ON THIS SHEET, DETAIL A.

C ORNAMENTAL POST IN CONCRETE WALL — NTS



N EMERGENCY ACCESS SIGN — NTS

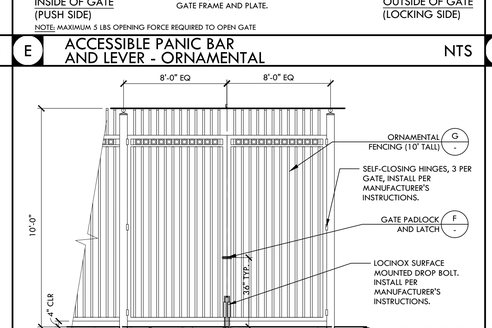


NOTE:
1. SIGN TO BE ATTACHED TO FENCE, REFER TO CBC ACCESSIBLE STANDARDS FOR MOUNTING HEIGHTS.
2. FOR SIGN ATTACHMENT REFER TO DETAIL J, THIS SHEET.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE DETAILED ON PLANS FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION. METAL WILL BE ALUMINUM. NO OTHER SPECIFICATIONS ARE PROVIDED BEYOND DETAILS.

J SIGN ATTACHMENT AT FENCE — NTS

NOTES:
1. WELCOME SIGN AND RULES SIGN SHALL ONLY BE ATTACHED ONTO 10' FENCING.
2. REFER TO DETAIL J, THIS SHEET, FOR ATTACHMENT REQUIREMENTS.
3. FINAL LOCATION OF SIGNS TO BE APPROVED BY OWNER REPRESENTATIVE

E ACCESSIBLE PANIC BAR AND LEVER - ORNAMENTAL — NTS



B FENCE FOOTING — NTS

FENCE POST & FOOTING SCHEDULE

DESCRIPTION	HEIGHT	LINE POST (TUBULAR STEEL)	CORNER/END POST (TUBULAR STEEL)	FOOTING DIMENSIONS	VERT. REBAR
ORNAMENTAL FENCE	4'	TS 4 X 4 X 3/16	TS 5 X 5 X 3/16	16" DIA. x 3'-0" DEEP	-
ORNAMENTAL FENCE	6'	TS 4 X 4 X 3/16	TS 5 X 5 X 3/16	16" DIA. x 3'-6" DEEP	-
ORNAMENTAL FENCE	10'	TS 4 X 4 X 3/16	TS 5 X 5 X 3/16	18" DIA. x 4'-6" DEEP	(4) #5

GATE POST FOOTING SCHEDULE

DESCRIPTION	SIZE (H x L)	GATE POST (TUBULAR STEEL)	FOOTING DIMENSIONS	VERT. REBAR
ORNAMENTAL DOUBLE SWING GATE	10' X 8'	TS 5 X 5 X 3/16	18" DIA. x 4'-6" DEEP	(4) #5
ORNAMENTAL DOUBLE SWING GATE	10' X 16'	TS 5 X 5 X 3/16	18" DIA. x 4'-6" DEEP	(4) #5

NOTES:
1. REFER TO PLANS & DETAILS FOR POST LOCATIONS AND TOP OF POST FOOTING.
2. REFER TO FENCE FOOTING DETAIL, DETAIL C, THIS SHEET
3. THE PIPE SIZES INDICATED ARE FOR NPS, REFER TO SPECIFICATIONS.

M FIRE ACCESS LANE — NTS

NOTE:
1. SIGN TO BE ATTACHED TO FENCE, REFER TO DETAIL J, THIS SHEET.
2. REFER TO CBC ACCESSIBLE STANDARDS FOR MOUNTING HEIGHTS.
3. ALL LETTERING MUST BE A PERMANENT PART OF THE SIGN.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL SIGNS FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION.

I SIGN ATTACHMENT AT ORNAMENTAL FENCE — NTS

D 10' TALL BY 16' WIDE ORNAMENTAL DOUBLE SWING GATE — NTS

A FOOTING SCHEDULE — NTS

VERDE DESIGN
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DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

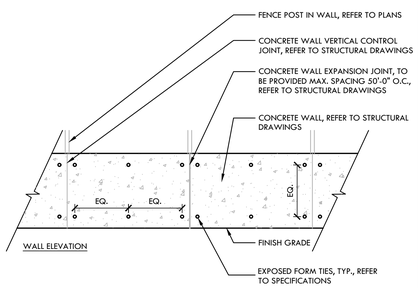
SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

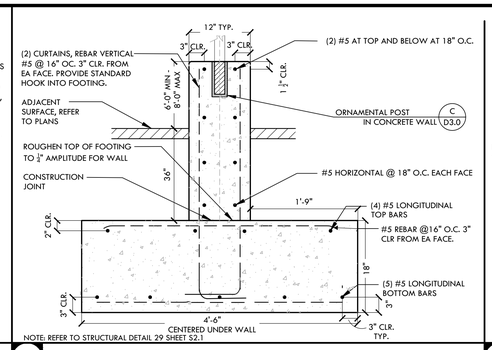
DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. D3.0

FENCING DETAILS

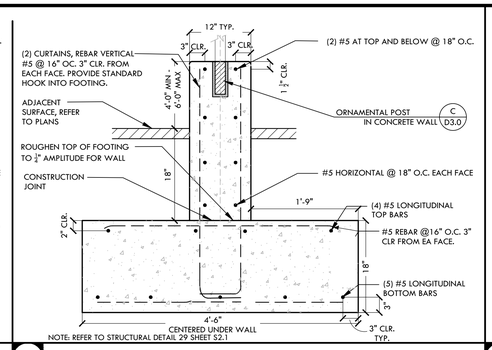
DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D3.0-Fencing- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46



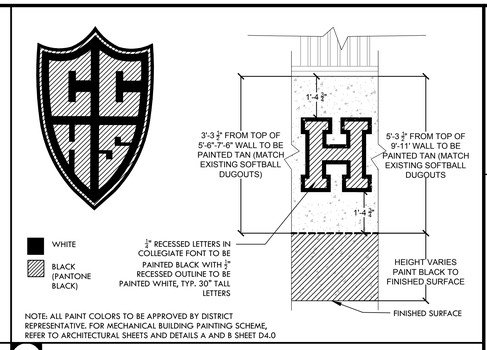
F CONCRETE WALL FORM TIES NTS



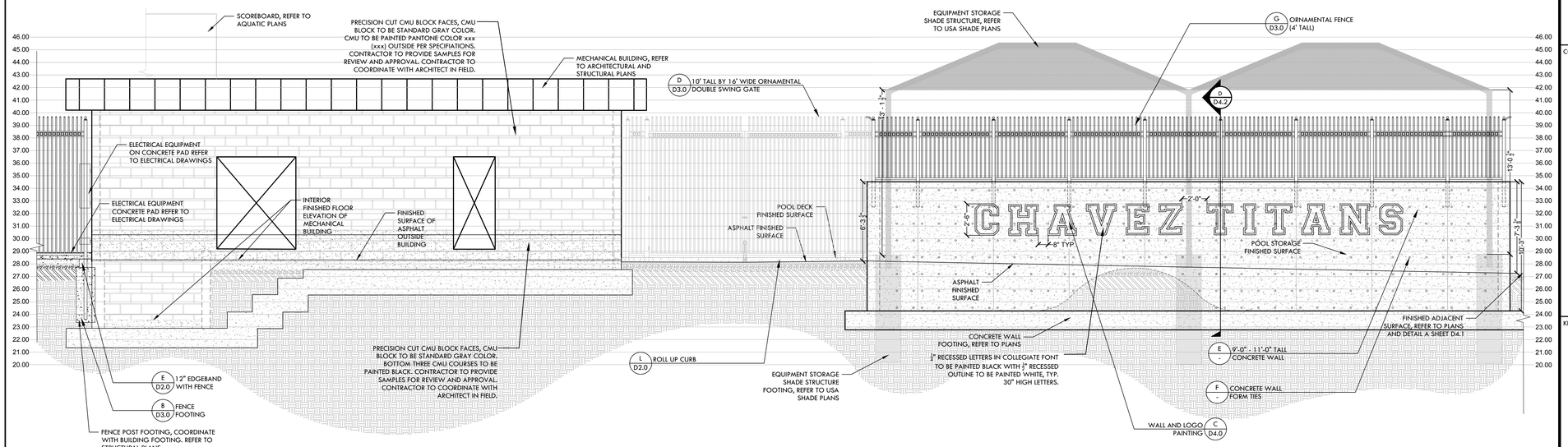
E 9'-0" - 11'-0" TALL CONCRETE WALL NTS



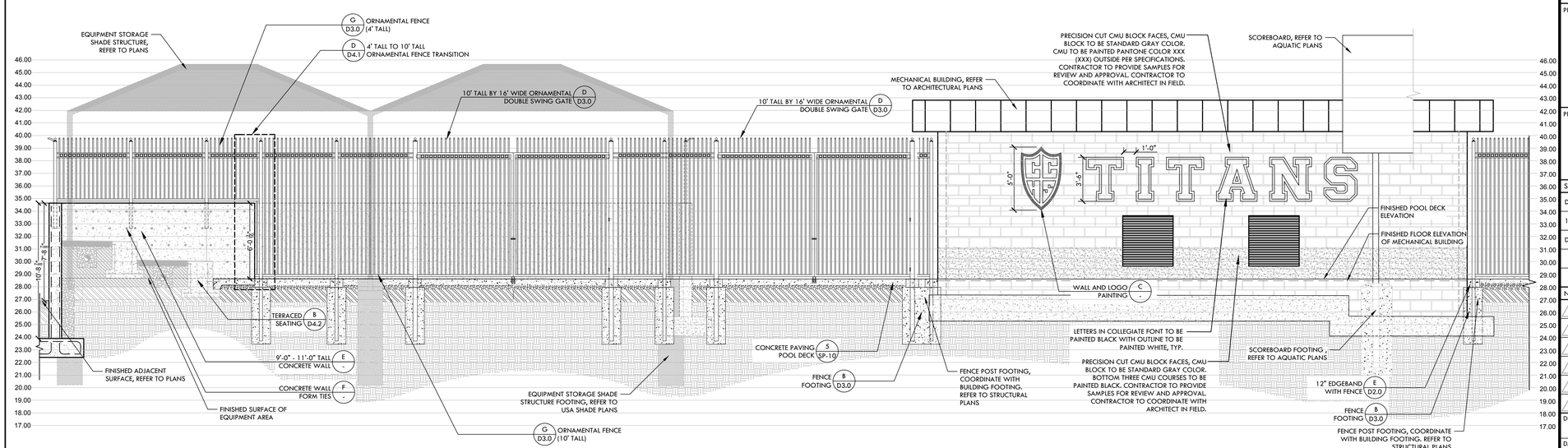
D 5'-6" - 7'-6" TALL CONCRETE WALL NTS



C WALL AND LOGO PAINTING NTS



B NORTH FACING SIDE OF NORTH WALL SECTION ELEVATION NTS



A SOUTH SIDE OF NORTH FACING WALL SECTION ELEVATION NTS

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D4.0-Elevations- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46

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REGISTERED LANDSCAPE ARCHITECT
MARK E. BROSKEY
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
NORTH CONCRETE WALL ELEVATIONS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

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VDI	CS
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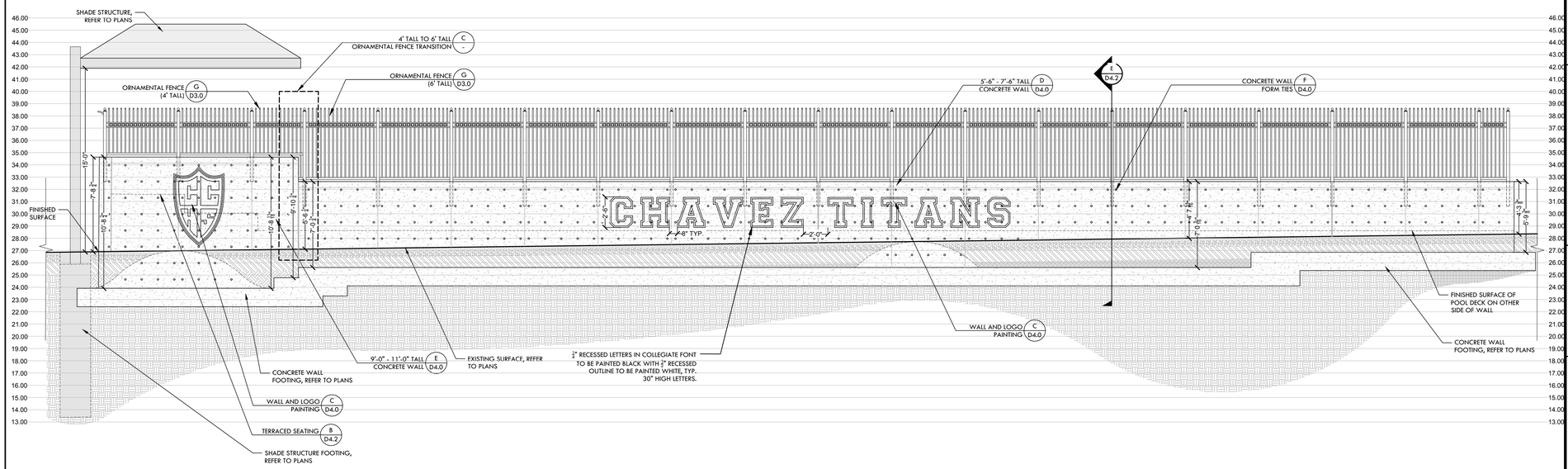
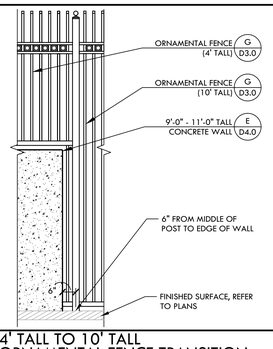
PROJ. NO.
1910900-1211

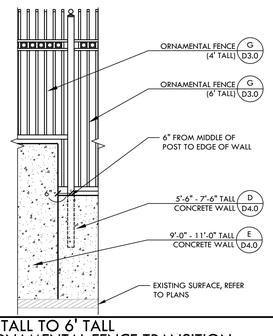
SHEET NO.
D4.0



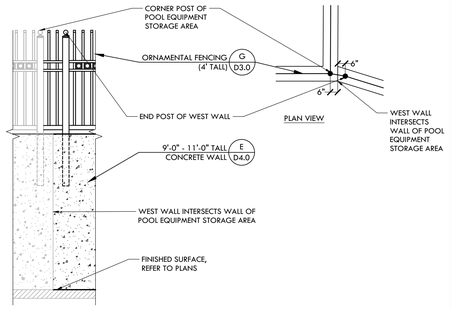
E SOUTH WALL SECTION ELEVATION — NTS



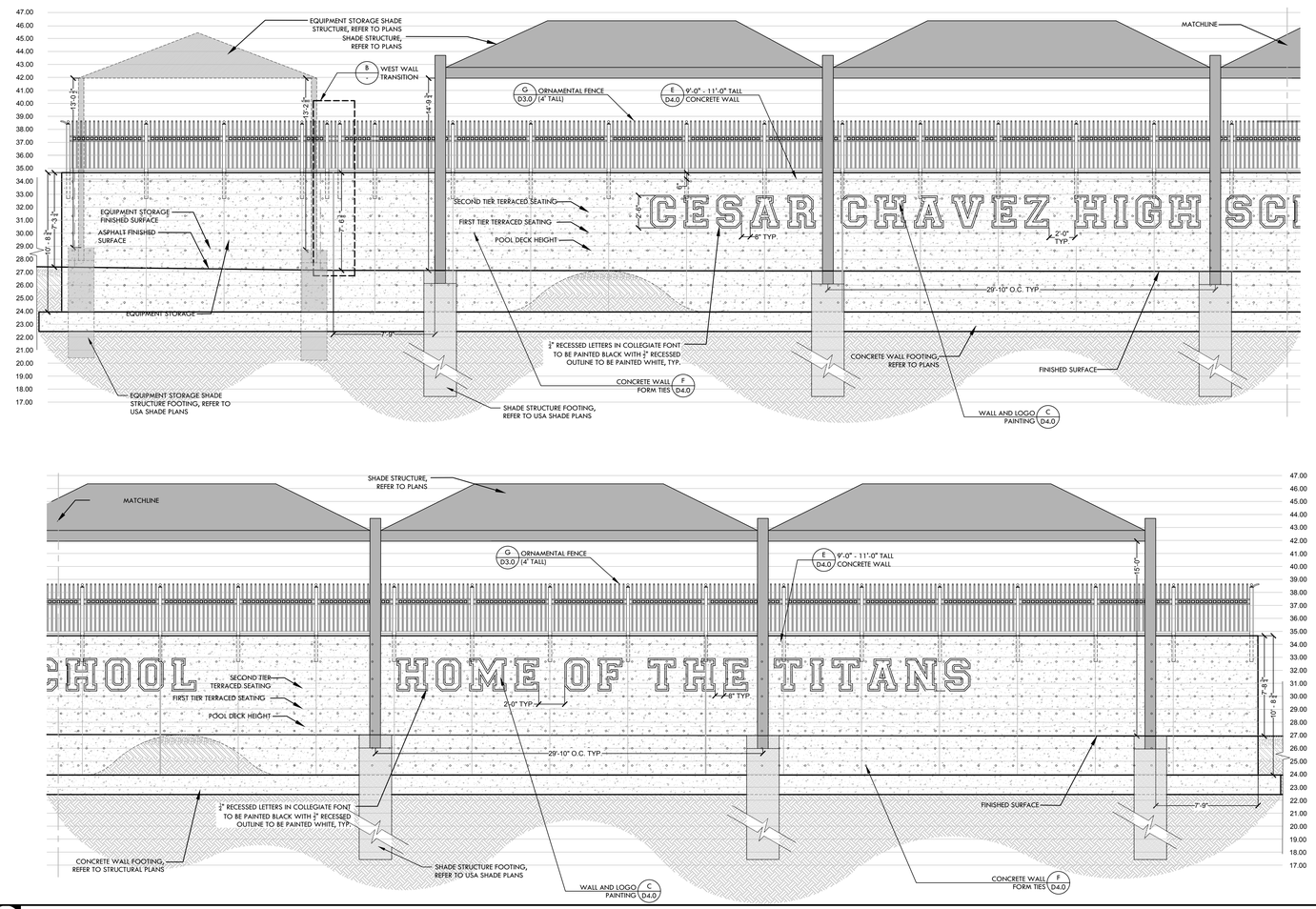
D 4' TALL TO 10' TALL ORNAMENTAL FENCE TRANSITION — NTS



C 4' TALL TO 6' TALL ORNAMENTAL FENCE TRANSITION — NTS



B WEST WALL TRANSITION — NTS



A WEST WALL SECTION ELEVATION — NTS

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MARK S. BROTHERS
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
SOUTH AND WEST CONCRETE WALLS ELEVATIONS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
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100% SUBMITTAL	12/20/19
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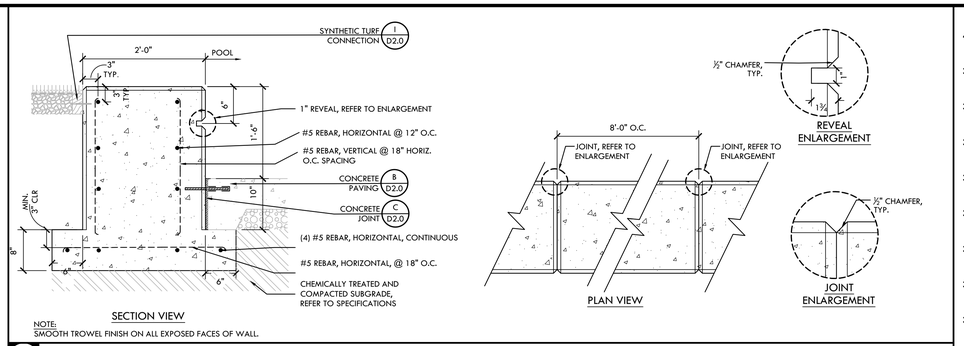
PROJ. NO.: 1910900-1211	
SHEET NO.: D4.1	



SECTION VIEW

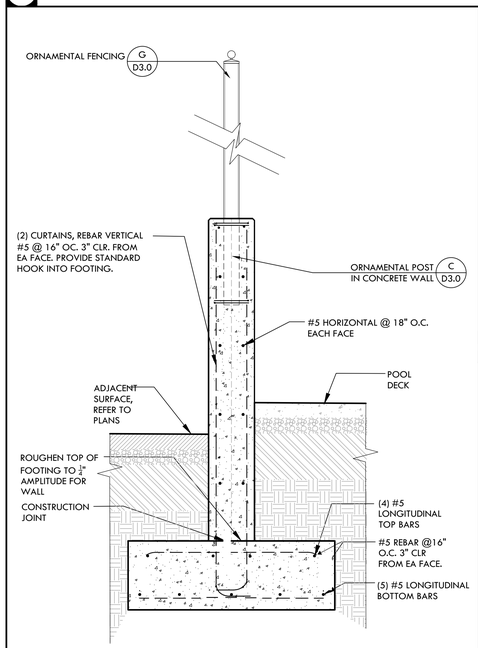
PLAN VIEW

REVEAL ENLARGEMENT

JOINT ENLARGEMENT

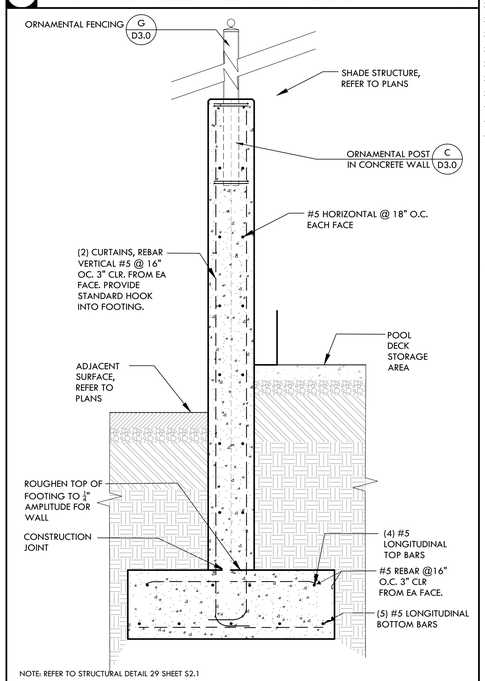
NOTE:
SMOOTH TROWEL FINISH ON ALL EXPOSED FACES OF WALL.

F CONCRETE SEAT WALL NTS



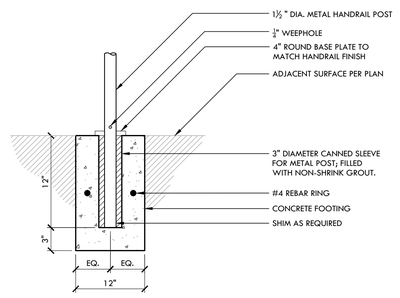
NOTE: REFER TO STRUCTURAL DETAIL 29 SHEET S2.1

E SOUTH CONCRETE WALL CROSS SECTION NTS

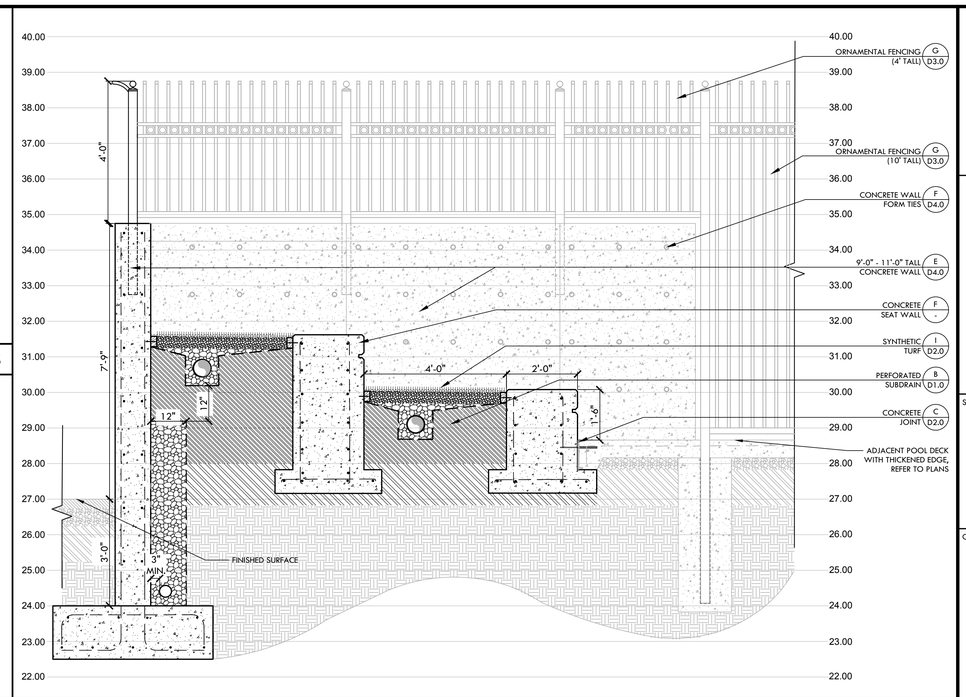


NOTE: REFER TO STRUCTURAL DETAIL 29 SHEET S2.1

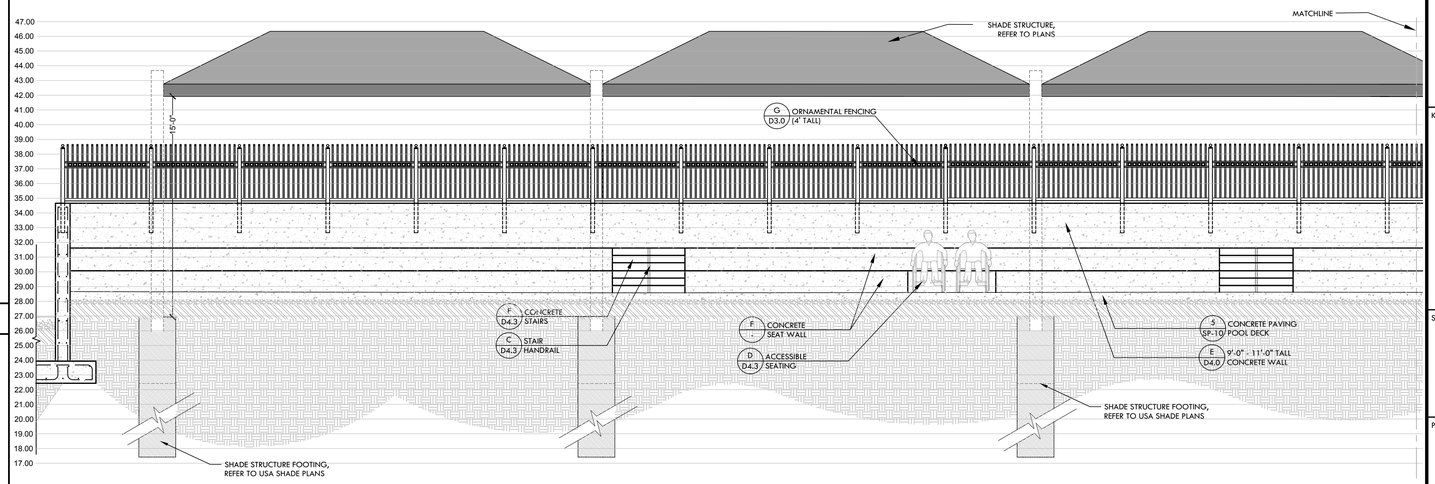
D NORTH CONCRETE WALL CROSS SECTION NTS

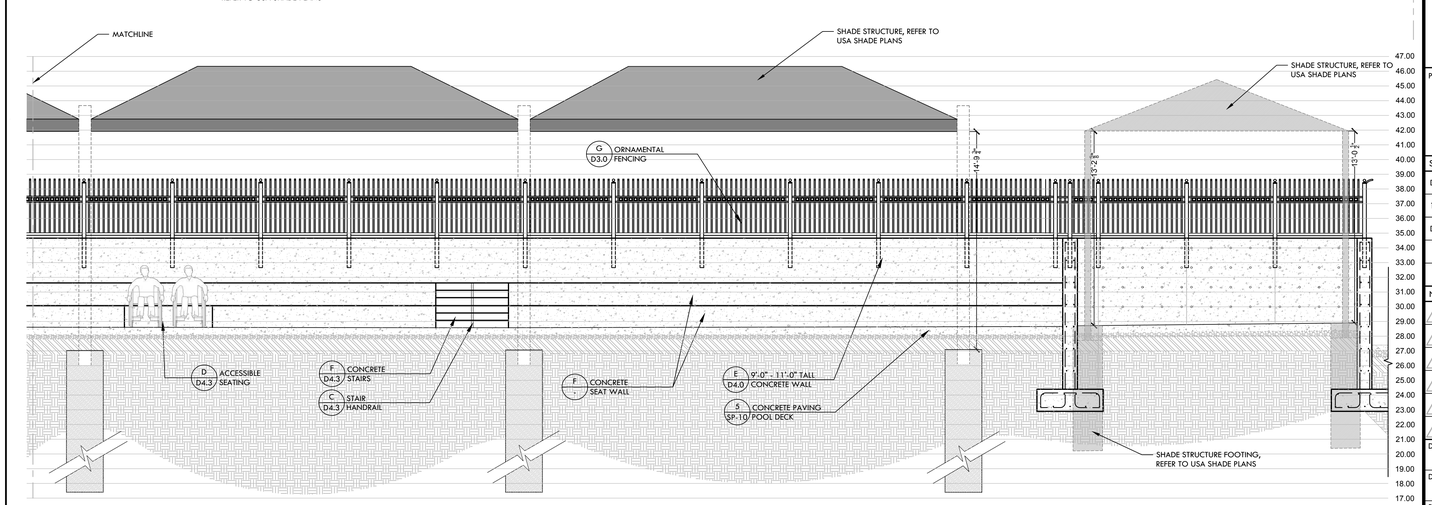


C RAILING FOOTING NTS



B TERRACED SEATING NTS





A WEST WALL FROM POOL DECK NTS

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MARK S. BASINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
TERRACED SEATING ELEVATIONS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

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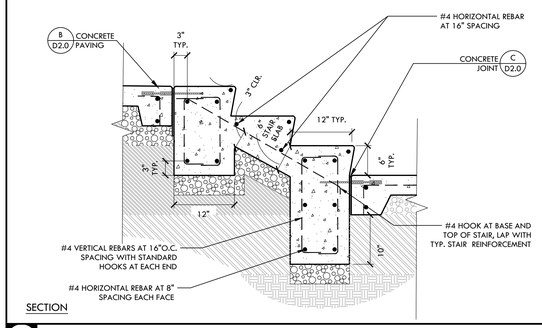
DATE ISSUED	SCALE
03/13/2020	

PROJ. NO.
1910900-1211

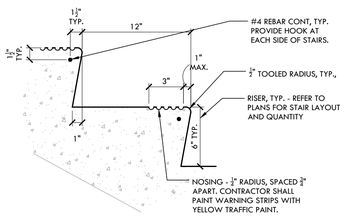
SHEET NO.
D4.2

TERRACED SEATING ELEVATIONS

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D4.0-Elevations- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46

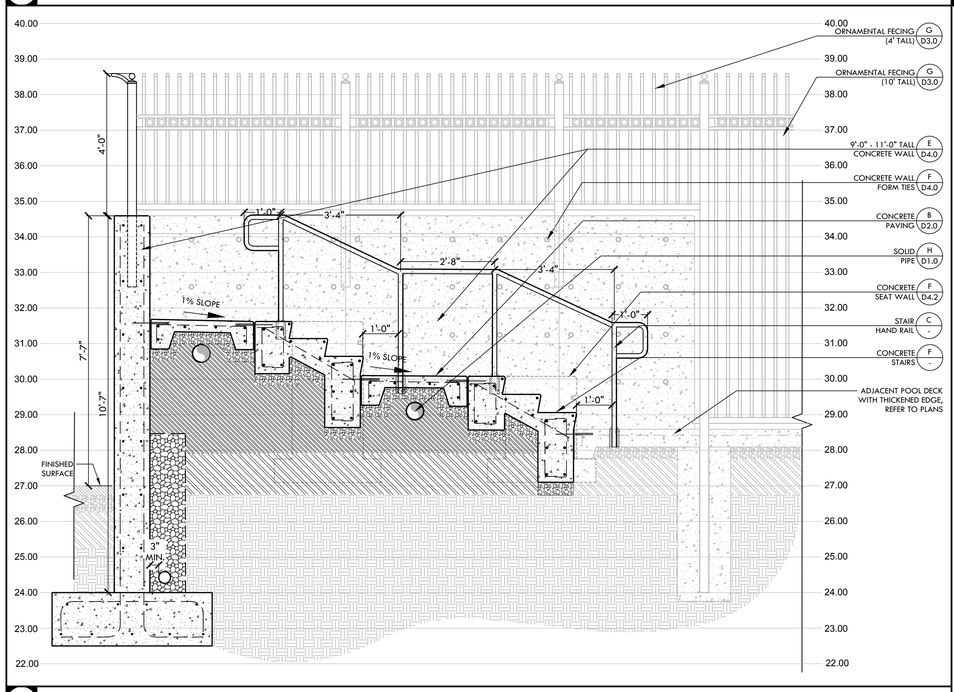


SECTION

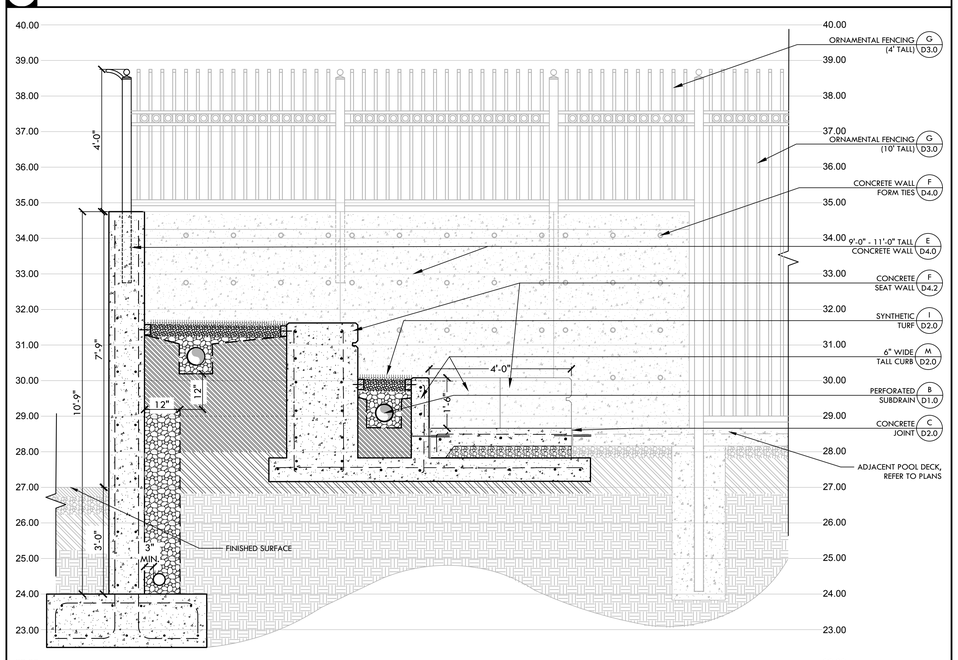


STAIR ENLARGEMENT

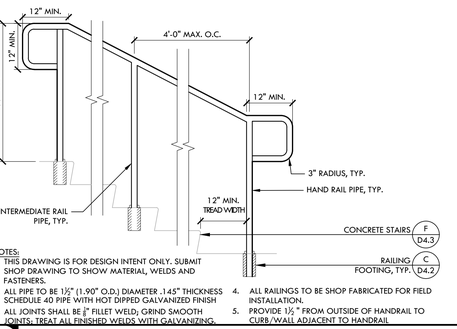
F CONCRETE STAIRS NTS



E STAIRS AT TERRACED SEATING NTS

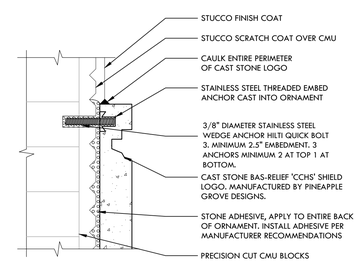


D ACCESSIBLE SEATING NTS



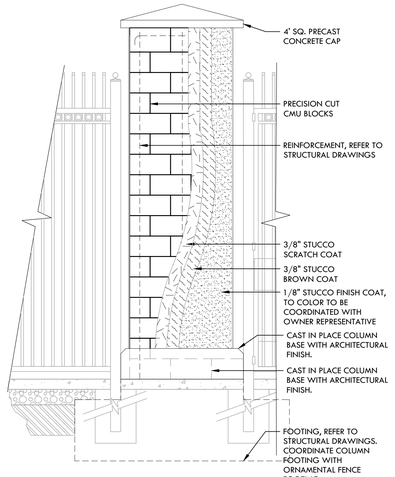
NOTES:
1. THIS DRAWING IS FOR DESIGN INTENT ONLY. SUBMIT SHOP DRAWING TO SHOW MATERIAL, WELDS AND FASTENERS.
2. ALL PIPE TO BE 1½" (1.900" O.D.) DIAMETER .145" THICKNESS SCHEDULE 40 PIPE WITH HOT DIPPED GALVANIZED FINISH
3. ALL JOINTS SHALL BE 2" FILLET WELD, GRIND SMOOTH JOINTS; TREAT ALL FINISHED WELDS WITH GALVANIZING.
4. ALL RAILINGS TO BE SHOP FABRICATED FOR FIELD INSTALLATION.
5. PROVIDE 1½ " FROM OUTSIDE OF HANDRAIL TO CURB/WALL ADJACENT TO HANDRAIL

C STAIR HAND RAIL NTS

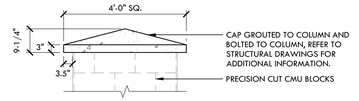


NOTE:
1. TO AVOID DAMAGE ON ORNAMENT, DO NOT OVER TIGHTEN ANCHOR PIN INTO EMBEDDED ANCHOR.

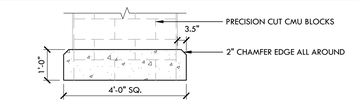
B CAST STONE ORNAMENT ANCHOR SYSTEM NTS



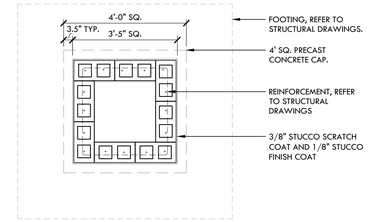
COLUMN SECTION 1 (FRONT)



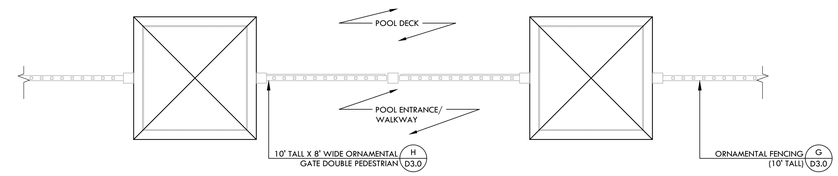
PRECAST CONCRETE CAP: 48" SQUARE PIER CAP AS MANUFACTURED AND SUPPLIED BY MODERN PRECAST INC.



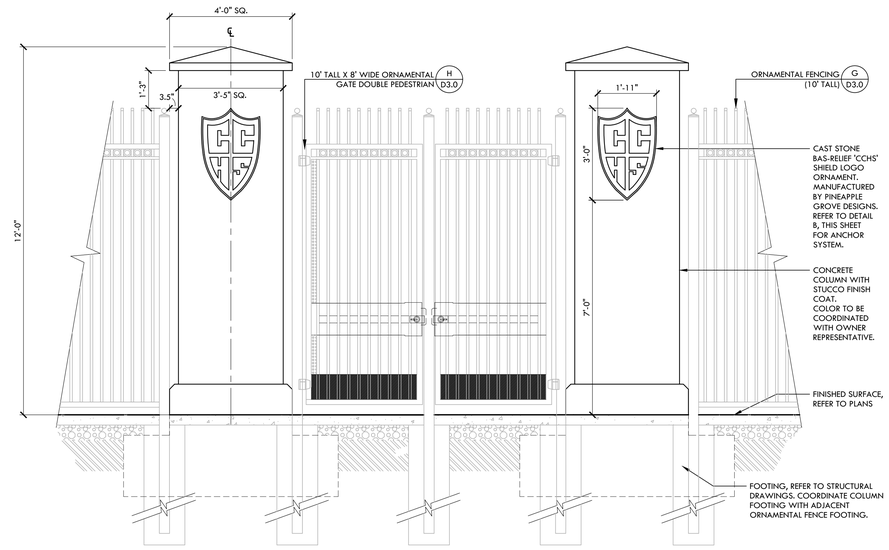
CAST IN PLACE COLUMN ARCHITECTURAL BASE



COLUMN SECTION 2 (PLAN)



PLAN VIEW



COLUMN ELEVATION (FRONT)

NOTE:
1. SEE STRUCTURAL DRAWINGS FOR FOOTING AND REINFORCEMENT DESIGN.

A POOL ENTRANCE COLUMNS NTS

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CONSULTANT

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SHEET TITLE
POOL ENTRY COLUMNS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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1910900-1211

SHEET NO.
D4.3

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D4.0-Elevations- Pool.dwg
PLOT DATE: 04-28-20 PLOTTED BY: station46

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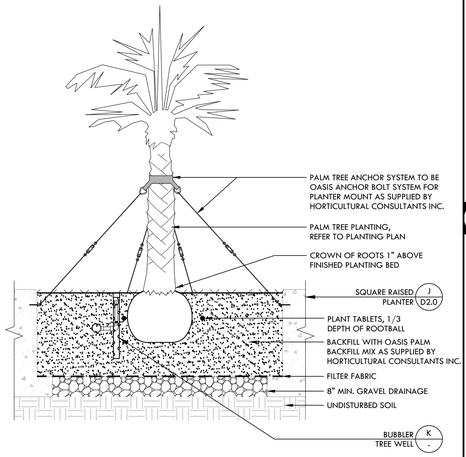
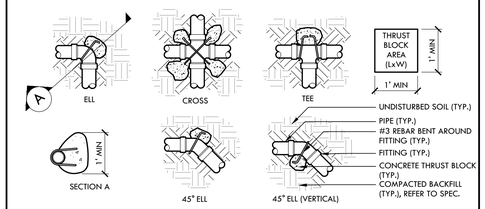
N



NOTE:
1. INSTALL PALM TREE ANCHORING SYSTEM PER MANUFACTURER'S RECOMMENDATIONS.

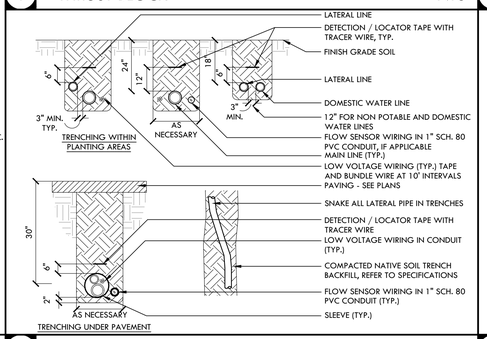
L PALM TREE PLANTING AND ANCHOR SYSTEM NTS



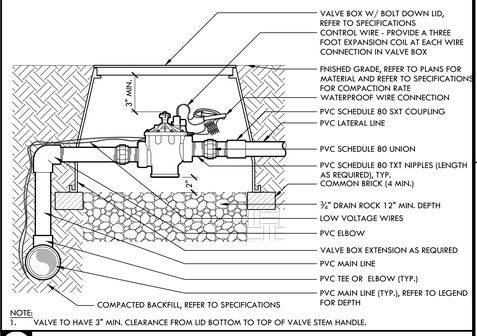
NOTES:
1. SUPPLY LINES 3" DIA. AND LARGER OR GATE VALVES 2½" OR LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. MIN. THRUST BLOCK AREAS ARE BASE ON A SOIL BEARING CAPACITY OF 3000 LBS/SF.
3. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
4. CONCRETE SHALL NOT COVER FITTING JOINTS.
5. MAIN LINE PIPING 6" AND LARGER SHALL HAVE DUCTILE IRON FITTINGS WITH JOINT RESTRAINTS INSTALLED AT ALL FLOW DIRECTION CHANGES (CONCRETE THRUST BLOCK NOT REQUIRED)

MINIMUM THRUST BLOCK AREA (LxW)		
PIPE SIZE	IRRIGATION PIPE	
	TEE, DEAD END, 90° BEND	45°,22.5°
2"	1 SF	.5 SF
4"	2 SF	1 SF

I THRUST BLOCK NTS



H IRRIGATION PIPE TRENCHING NTS

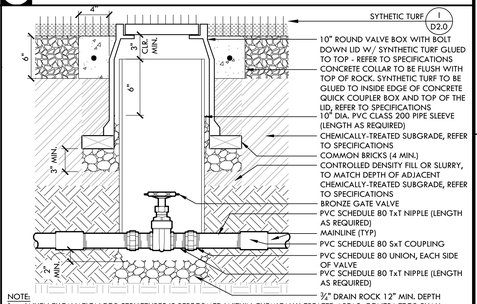


NOTE:
1. VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE STEM HANDLE.

E REMOTE CONTROL VALVE NTS

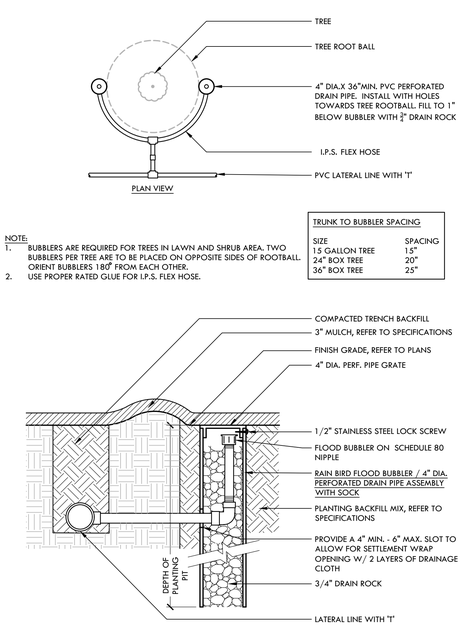
NOT USED

D



NOTE:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

C GATE VALVE IN SYNTHETIC TURF NTS



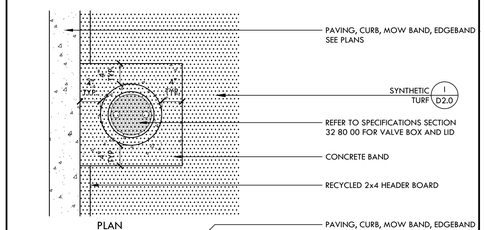
NOTE:
1. MAXIMUM WIRE SIZES PER CONNECTOR ARE 3 - #14'S OR 2 - #12'S.

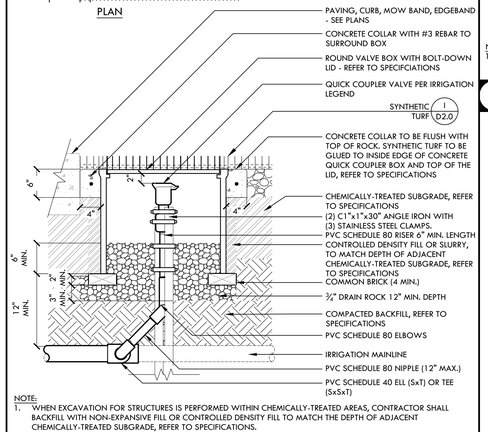
M CONTROL WIRE CONNECTION NTS

K TREE BUBBLER WELL NTS

NOTE:
1. BUBBLERS ARE REQUIRED FOR TREES IN LAWN AND SHRUB AREA. TWO BUBBLERS PER TREE ARE TO BE PLACED ON OPPOSITE SIDES OF ROOTBALL. ORIENT BUBBLERS 180° FROM EACH OTHER.
2. USE PROPER RATED GLUE FOR I.P.S. FLEX HOSE.

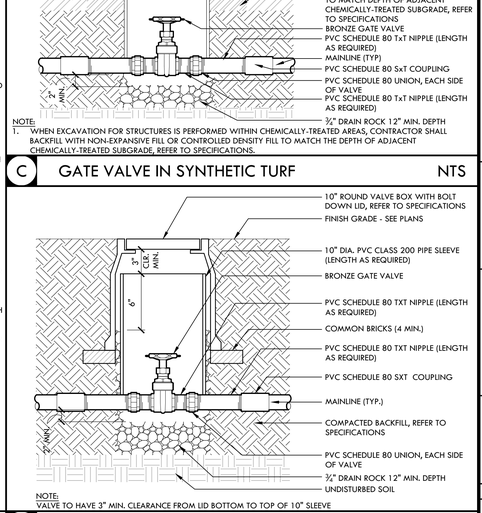
TRUNK TO BUBBLER SPACING	
SIZE	SPACING
15 GALLON TREE	15"
24" BOX TREE	20"
36" BOX TREE	25"





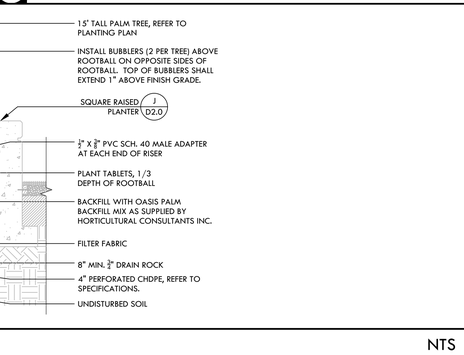
NOTE:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

G QUICK COUPLER IN SYNTHETIC TURF NTS

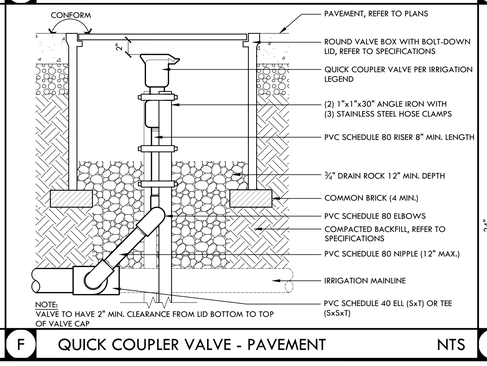


NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" SLEEVE

B GATE VALVE - 2" AND SMALLER IN SIZE NTS

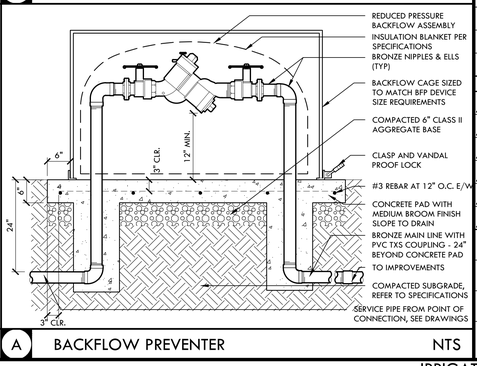


J PALM TREE PLANTING AND DRAINAGE NTS



NOTE:
VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP

F QUICK COUPLER VALVE - PAVEMENT NTS



A BACKFLOW PREVENTER NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BROTHERS
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
IRRIGATION AND PLANTING DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
	CS
DATE ISSUED	SCALE
03/13/2020	
PROJ. NO.	
1910900-1211	
SHEET NO.	
D5.0	

GENERAL NOTES:

1. READ THE COMPLETE SPECIFICATIONS, CONTRACT DOCUMENTS AND COMPLY WITH EACH REQUIREMENTS.
2. THE COMPLETE ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE N.E.C., AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
5. PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
7. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWING, SHOW LOCATIONS OF PULLBOXES, CONDUIT RUNS AND WIRING CHANGES.
8. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE UL OR CSA LISTED AND SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
11. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RSG" UNLESS OTHERWISE NOTED ON DRAWINGS.
12. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12'S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN SELECTED BASED ON DIMENSIONS TO FIT THE SPACE, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO ORDERING OF THE EQUIPMENT.
15. CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.
16. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS.
17. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
18. NEW DUCT ROUTES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED IN THE FIELD TO CLEAR OTHER UNDERGROUND UTILITIES. PROVIDE AS-BUILT DRAWINGS TO INDICATE ACTUAL LOCATION OF CONDUIT ROUTING.
19. EFFECTIVELY BOND ELECTRICAL CABINETS. ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.
20. FROM ALL NEW PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
21. UTILITY SERVICE WORK SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY COMPANY'S RULES, REGULATIONS AND STANDARDS, AND SHALL BE VERIFIED WITH UTILITY COMPANY'S ENGINEERING DRAWINGS AND FIELD SUPERVISOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER, CATV AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS. THE CONTRACTOR SHALL REMAIN IN CONTACT WITH UTILITY COMPANY ENGINEERING DEPARTMENTS THROUGHOUT PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.
22. THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION. STRING SHALL BE NYLON PULLSTRING ROPE/STRING.
23. POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.
24. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
25. PROVIDE SEISMIC BRACING FOR ALL PENDANT LIGHT FIXTURES, FREESTANDING ELECTRICAL DISTRIBUTION EQUIPMENT, MOTOR CONTROL CENTERS ETC; AND CONDUIT RACKS PER SEISMIC CRITERIA 2016 CBC REQUIREMENTS INCLUDING ENGINEERED LOAD CALCULATIONS COMPLETE WITH SWAY BRACING CRITERIA.
26. DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
27. ALL SPACES ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARES AND BUSSING FOR FUTURE BREAKER OR SWITCH.
28. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2016 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2016 CALIFORNIA ELECTRICAL CODE.
29. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES AND BOND TO METAL COVER WITH #6 CU GND.

DRAWING INDEX

SHEET NO.	SHEET TITLE
E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULE
E0.2	TITLE 24 - INDOOR MECHANICAL ROOM
E0.3	TITLE 24 - OUTDOOR MECHANICAL ROOM
E1.0	ELECTRICAL DEMOLITION SITE PLAN
E1.1	ELECTRICAL NEW SITE PLAN
E4.0	ENLARGED SWIMMING POOL ELECTRICAL DEMOLITION SITE PLAN
E4.1	ENLARGED SWIMMING POOL NEW SITE PLAN POWER AND SIGNAL
E4.2	ENLARGED SWIMMING POOL ELECTRICAL NEW SITE PLAN LIGHTING
E4.3	MECHANICAL ROOM ELECTRICAL NEW FLOOR PLAN
E4.4	MECHANICAL ROOM LIGHTING NEW FLOOR PLAN
E5.1	ELECTRICAL SINGLE LINE DIAGRAM
E6.1	INVERTER RISER DIAGRAM
E6.2	PA/ SPEAKER AND DATA RISER DIAGRAM
E7.1	ELECTRICAL DETAILS
E7.2	ELECTRICAL DETAILS
E7.3	ELECTRICAL DETAILS
E7.4	ELECTRICAL DETAILS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN AREA OF NEW TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. EXTREME CARE SHALL BE MAINTAINED DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN AREA. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATION AND SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA EXPENSE TO THE OWNER THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL NEW WORK.

SYMBOL LIST:

1/E1.1 — PLAN, DETAIL OR SECTION DESIGNATION.
201 — ROOM NUMBER.
1 — SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.
3 — FEEDER SCHEDULE SYMBOL.
CH/2 — MECHANICAL EQUIPMENT TAG.
A — INDICATES FIXTURE TYPE

LUMINAIRE SYMBOLS

LUMINAIRE - SEE SCHEDULE.
LUMINAIRE - SEE SCHEDULE.
LUMINAIRE - SEE SCHEDULE.
LUMINAIRE - SEE SCHEDULE.
LUMINAIRE - SEE SCHEDULE.
LUMINAIRE WALL MOUNTED-SEE SCHEDULE.
EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
EM — EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
EMERGENCY LUMINAIRE WALL MOUNTED- PROVIDE EMERGENCY BATTERY BALLAST
EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.
EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.
COMBO EMERGENCY LIGHT/ EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.

TYPICAL LUMINAIRE NOMENCLATURE

3a — INDICATES SWITCHING DESIGNATION
INDICATES CIRCUIT NUMBER

SWITCH SYMBOLS

$ — SINGLE POLE SWITCH, + 48" AFF UON.
$a — SINGLE POLE SWITCH, + 48" AFF UON, a = CIRCUIT CONTROLLED.
$3 — THREE WAY SWITCH + 48" AFF UON.
$4 — FOUR WAY SWITCH + 48" AFF UON.
MOTOR RATED SWITCH
OS — OCCUPANCY SENSOR
P — OCCUPANCY SENSOR POWER PACK

RECEPTACLE SYMBOLS

CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF UON.
GFCI CONVENIENCE RECEPTACLE - DUPLEX.
RECEPTACLE DOUBLE DUPLEX AT + 18" AFF UON.
SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.
SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE, 5 WIRE, AT + 18" AFF UON.
FLOOR BOX WITH CONVENIENCE RECEPTACLE, TELEPHONE AND DATA OUTLET.
FLUSH FLOOR BOX WITH SINGLE CONVENIENCE RECEPTACLE.
WIRE RACEWAY, INSTALL AT + 36" AFF UON.

ABBREVIATIONS:

A	AMPERE	KAIC	KILOAMPERE INTERRUPTING CAPACITY
ABV	ABOVE	KV	KILOVOLT
AF	AMP FRAME OR AMP FUSE	KVA	KILOVOLT AMPERES
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
ARCH	ARCHITECTURAL	LTG	LIGHTING
AS	AMP SWITCH	MCM	THOUSAND CIRCULAR MILS
AT	AMP TRIP	MDF	MAIN DISTRIBUTION FRAME
ATS	AUTOMATIC TRANSFER SWITCH	MECH	MECHANICAL
BKR	BREAKER	MH	MANHOLE
BLDG	BUILDING	MTD	MOUNTED
C	CONDUIT	MTG	MOUNTING
CATV	CABLE TELEVISION	(N)	NEW
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CD	CANDELAS	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NIEC	NOT IN ELECTRICAL CONTRACT
CL	CENTER LINE	NO	NUMBER/ NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CONDUIT ONLY	O.C.	ON CENTER
CTR	CENTER	P	POLE CIRCUIT BREAKER
(D)	DEMOLISH	PA	PUBLIC ADDRESS
DET	DETAIL	PB	PULL BOX
DIM	DIMENSION	PF	POWER FACTOR
DISTR	DISTRIBUTION	PH	PHASE
DWG	DRAWING	PNL	PANEL
(E)	EXISTING	(R)	EXISTING TO BE RELOCATED
EM	EMERGENCY	REQD	REQUIRED
EQPT	EQUIPMENT	REQT	REQUIREMENT(S)
FA	FIRE ALARM	RM	ROOM
FACP	FIRE ALARM CONTROL PANEL	RSC	RIGID STEEL CONDUIT
(F)	FUTURE	SHT	SHEET
FIN	FINISH	SW	SWITCH
FL	FLOOR	SWBD	SWITCHBOARD
G , GND	GROUND	TC	TERMINAL CABINET
HGT	HEIGHT	TEL	TELEPHONE
HP	HORSEPOWER	TYP	TYPICAL
IC	INTERCOM	UON	UNLESS OTHERWISE NOTED
IDF	INTERMEDIATE DISTRIBUTION FRAME	V	VOLT
JB	JUNCTION BOX	W	WATT
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

POWER DISTRIBUTION SYMBOLS

PANELBOARD - SURFACE OR FLUSH MOUNTED.
JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT.
DISTRIBUTION PANEL
M — MOTOR
30 — COMBINATION MAGNETIC STARTER FUSED DISCONNECT SWITCH. RATING AS INDICATED.
60 — UNFUSED DISCONNECT SWITCH - RATING AS INDICATED.
100 — FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR MANUFACTURER'S RECOMMENDATIONS. RATING AS INDICATED.
II — MAGNETIC STARTER - NEMA SIZE INDICATED.
T — TRANSFORMER - SEE SINGLE LINE FOR SIZE.
GROUND ROD.

WIRING & CONDUIT RUN SYMBOLS

CONDUIT - CONCEALED IN WALLS OR CEILING.
CONDUIT - EXPOSED.
CONDUIT - IN OR BELOW FLOOR: 3/4"MIN.
#10 — CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH "#10" INDICATES WIRE SIZE OTHER THAN #12'S.
FLEX CONDUIT WITH CONNECTION.
CONDUIT - STUB UP.
CONDUIT - STUB DOWN.
CONDUIT EMERGENCY SYSTEM.
CAPPED CONDUIT.
CONDUIT CONTINUATION.

POWER DISTRIBUTION SINGLE LINE SYMBOLS

CIRCUIT BREAKER.
M — "PG&E" METER W/ CURRENT TRANSFORMER.
TRANSFORMER.

GENERAL ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OF 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH 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 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1615A.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., SMACNA OR OSHPD OPM), 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 SYSTEM. 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 THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #

MP☐ MD☐ PP☐ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

FIXTURE SCHEDULE

TYPE	LAMPS	LAMP QUANTITY	BALLAST	MOUNTING	DESCRIPTION	WEIGHT
AA	74W LED	N/A	N/A	MOUNTED ON A 15' POLE FLUSH BASE (6/E7.4)	SINGLE HEAD POLE MOUNTED LED LUMINAIRE WITH A RECTANGULAR 15' POLE. HOUSING TO HAVE DIE CAST ALUMINUM. FIXTURE TO HAVE LED DRIVER THAT ACCEPTS 277V AT 60HZ. DRIVER OUTPUT IS BASED ON THE LED WATTAGE SELECTED. FINISH TO HAVE A FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED, TRIGLYCIDAL ISOCYANURATE (TGIC) TEXTURED POLYESTER POWEDCOAT FINISH. FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AT PEDESTRIAN PATHWAY/EGRESS. GARDCO - P26-48L-500-NW-G2-AR-5-UNV 277V POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 15' X 7 GAUGE BY KW (SSP15-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH. THE POLE SHAFT SHALL BE A SINGLE PIECE 7 GAUGE CARBON STEEL. THE ANCHOR BASE SHALL BE CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS.	38lbs.
AB1	74W LED	N/A	N/A	MOUNTED ON A 12' POLE 3' RAISED BASE (5/E7.4)	SINGLE HEAD POLE MOUNTED LED LUMINAIRE WITH A RECTANGULAR 15' POLE. HOUSING TO HAVE DIE CAST ALUMINUM. FIXTURE TO HAVE LED DRIVER THAT ACCEPTS 277V AT 60HZ. DRIVER OUTPUT IS BASED ON THE LED WATTAGE SELECTED. FINISH TO HAVE A FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED, TRIGLYCIDAL ISOCYANURATE (TGIC) TEXTURED POLYESTER POWEDCOAT FINISH. FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AT PEDESTRIAN PATHWAY/EGRESS. GARDCO - P26-48L-500-NW-G2-AR-3-UNV 277V POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 12' X 7 GAUGE BY KW (SSP12-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH. THE POLE SHAFT SHALL BE A SINGLE PIECE 7 GAUGE CARBON STEEL. THE ANCHOR BASE SHALL BE CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS.	38lbs.
AB2	74W LED	N/A	N/A	MOUNTED ON A 12' POLE 3' RAISED BASE (5/E7.4)	DOUBLE HEAD POLE MOUNTED LED LUMINAIRE WITH A RECTANGULAR 15' POLE. HOUSING TO HAVE DIE CAST ALUMINUM. FIXTURE TO HAVE LED DRIVER THAT ACCEPTS 277V AT 60HZ. DRIVER OUTPUT IS BASED ON THE LED WATTAGE SELECTED. FINISH TO HAVE A FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED, TRIGLYCIDAL ISOCYANURATE (TGIC) TEXTURED POLYESTER POWEDCOAT FINISH. FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AT PEDESTRIAN PATHWAY/EGRESS. GARDCO - P26-48L-500-NW-G2-AR-3-UNV 277V POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 12' X 7 GAUGE BY KW (SSP12-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH. THE POLE SHAFT SHALL BE A SINGLE PIECE 7 GAUGE CARBON STEEL. THE ANCHOR BASE SHALL BE CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS.	38lbs.
BC	28W LED	N/A	N/A	MOUNTED ON (E) BUILDING	(N) GARDCO 121 LED FIXTURE. ON EXTERIOR BUILDING WALL. GARDCO-121-16L-530-NW-G3-EBPC-UNV-F1	18.5lbs.
BB	40W LED	N/A	N/A	MOUNTED ON STORAGE STRUCTURE (1/E7.4)	(N) GARDCO CLEAR SPACE LED FLOOD LIGHT, MEDIUM ON STORAGE STRUCTURE. GARDCO-121-16L-530-NW-G3-EBPC-UNV-F1	40lbs.
CC	23W LED			MOUNTED ON SHADE STRUCTURE (2/E7.4)	(N) BEGA 44 437 LED FIXTURE. ON SHADE STRUCTURE. BEGA - 44 347 - K4 - BRZ	15 lbs.
P1-P4					SEE MUSCO DRAWINGS	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesignInc.com

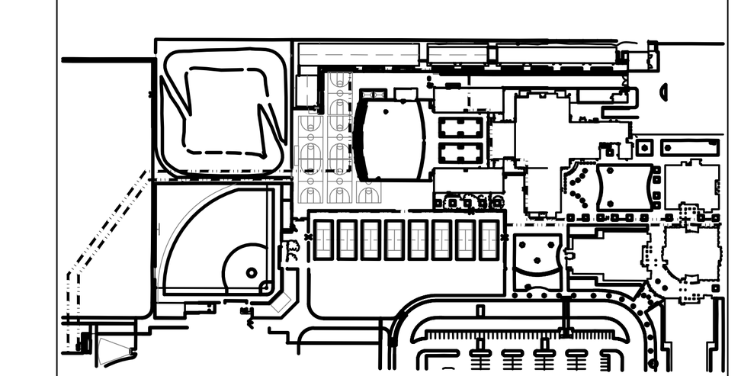
STAMP

REGISTERED PROFESSIONAL ENGINEER
SAMMY S. FERNANDEZ
E16690
Exp. 06/30/19
ELECTRICAL
STATE OF CALIFORNIA

CONSULTANT

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # E19146.00
408/236-2312
Fax: 408/236-2316

KEYMAP



SHEET TITLE
ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULE

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY: MG
CHECKED BY: SF
DATE ISSUED: 03/13/2020
SCALE:
PROJ. NO.: 1910900-1211
SHEET NO.: E0.1

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 3/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: Chavez HS Stockton USD Swimming Pool — Report Page: Page 1 of 6
Project Address: 2929 Windflower Ln — Date Prepared: 11/20/2019

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Conditioned Floor Area (ft²)	838
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☑ Other (write in): Mechanical Room

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☑ New Lighting System	Area Category	838	Area Category	0
	Add Parking Garage-Complete Bldg Method		Remove Parking Garage	
☐ Altered Lighting System				
	Add Altered Lighting System		Remove Last Altered System	
Total Area of Work (ft²):	**838**		**0**	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)						Actual Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05		06	07	08		09	10
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Footnotes §140.6(c)2G (+) (See Table K)	Tailored §140.6(c)3 (+) (See Table L)	**Total Allowed** (Watts)	≥	Total Designed (Watts) (See Table F)	Adjustments: Portable Lighting §140.6(a) (-) (See Table J)	Adjustments: PAF Control Credits §140.6(a)2 (-) (See Table R)	=	**Total Actual** (Watts) *Includes Adjustments	**05 Must be ≥09** §140.6
Conditioned:		460.9			**460.9**	≥	390			=	**390**	**COMPLIES**
Unconditioned:						≥				=		
											Controls Compliance (See Table H for Details)	**COMPLIES**
											Rated Power Reduction Compliance (See Table S for Details)	**Not Applicable**

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 3/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: Chavez HS Stockton USD Swimming Pool — Report Page: Page 2 of 6
Project Address: 2929 Windflower Ln — Date Prepared: 11/20/2019

D. EXCEPTIONAL CONDITIONS

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

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

01	02	03		04	05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Specialized Luminaire Types: Track	Specialized Luminaire Types: Portable	Watts per luminaire[1]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector: Pass	Field Inspector: Fail
C	C - 4' Length LED DW Industrial Light	☐	☐	46	Mfr. Spec[1]	5	☐	230	☐	☐
D	D - 4' Length LED DW Industrial Light	☐	☐	32	Mfr. Spec[1]	5	☐	160	☐	☐
					Total Designed Watts CONDITIONED SPACES:			**390**		
								Reset / Add Row / Remove Last		

[1]NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. TRACK LIGHTING

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

Table Instructions:
*Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §130.1(e)	Shut-off Controls §130.1(c)	Field Inspector: Pass	Field Inspector: Fail
Not Required < 10,000 SF	Whole Building: Automatic Time Switch	☐	☐

Area Level Controls
Table Continued

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 3/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: Chavez HS Stockton USD Swimming Pool — Report Page: Page 3 of 6
Project Address: 2929 Windflower Ln — Date Prepared: 11/20/2019

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector: Pass	Field Inspector: Fail
Mechanical Room	Electrical, Mechanical, Telephone Ro	Manual ON/OF	Bi-level Switch	Auto Timeswit	N/A	N/A	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. 13
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2
Plan Sheet Showing Daylit Zones:
Reset / Add Row / Remove Last

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06		
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustments: Footnotes	PAF	Portable Ltg
Mechanical Room	Elec, Mech, Telephone	0.55	838	460.9	☐	☐	☐
		TOTAL:	**838**	**460.9**	See Tables J, K, R for detail		
					Reset / Add Row / Remove Last		

J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES

This Section Does Not Apply

K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES

This Section Does Not Apply

L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS

This Section Does Not Apply

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 3/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: Chavez HS Stockton USD Swimming Pool — Report Page: Page 4 of 6
Project Address: 2929 Windflower Ln — Date Prepared: 11/20/2019

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)

This Section Does Not Apply

S. RATED POWER REDUCTION COMPLIANCE BY SPACE

This Section Does Not Apply

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 3/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: Chavez HS Stockton USD Swimming Pool — Report Page: Page 5 of 6
Project Address: 2929 Windflower Ln — Date Prepared: 11/20/2019

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: 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 http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI

YES	NO	Form/Title	Field Inspector: Pass	Field Inspector: Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
◉	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector: Pass	Field Inspector: Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
◉	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 3/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E
Project Name: Chavez HS Stockton USD Swimming Pool — Report Page: Page 6 of 6
Project Address: 2929 Windflower Ln — Date Prepared: 11/20/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Sammy Fernandez	Documentation Author Signature:	
Company:	American Consulting Engr. Elec., Inc	Signature Date:	11/20/2019
Address:	1590 The Alameda Suite 200	CEA/ HERS Certification Identification (if applicable):	6B66-CE2F-1F36-F9C7-EFEB-E42B
City/State/Zip:	San Jose, CA 95126	Phone:	408-236-2312

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 the 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:	Sammy Fernandez	Responsible Designer Signature:	
Company :	American Consulting Engineers Electrical, Inc.	Date Signed:	11/20/2019
Address:	1590 The Alameda Suite 200	License:	E16890
City/State/Zip:	San Jose, CA 95126	Phone:	408-236-2312

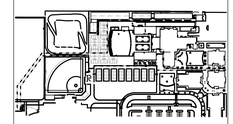
DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E0.2_T24_Interior.dwg
PLOT DATE: 04-09-20 PLOTTED BY: sbuhay

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesignInc.com

STAMP
REGISTERED PROFESSIONAL ENGINEER — JAMES S. FERNANDEZ — E16890 — 06/30/19 — ELECTRICAL — STATE OF CALIFORNIA

CONSULTANT
American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200, San Jose, CA 95126 — 408/236-2312 — Fax: 408/236-2316
JOB # E19146.00

KEYMAP


SHEET TITLE
TITLE 24 - INDOOR MECHANICAL ROOM

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
MG	SF
DATE ISSUED: 03/13/2020	SCALE:

PROJ. NO.: 1910900-1211

SHEET NO.: E0.2

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Chavez HS Stockton USD Swimming Pool	Report Page: Page 1 of 6
Project Address:	2929 Windflower Ln	Date Prepared: 11/20/2019

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	Stockton	04	Total Illuminated Hardscape Area (ft²)	410
02	Climate Zone	12			

03 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Rural Areas ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Developed Parkland ☑ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02
☑ New Lighting System	Must Comply with Allowances from §140.7.
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results		
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2	OR	Existing Power §141.0(b)2L	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 Must be ≥ 08**
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		(See Table N)				(See Table F)	
572.1	+	88	+		+		+		OR		=	660.1	≥	110	**COMPLIES**
												Cutoff Compliance (See Table G for Details)		**Not Applicable**	
												Controls Compliance (See Table H for Details)		**COMPLIES**	

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Chavez HS Stockton USD Swimming Pool	Report Page: Page 2 of 6
Project Address:	2929 Windflower Ln	Date Prepared: 11/20/2019

D. EXCEPTIONAL CONDITIONS

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

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

This Section Does Not Apply

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1]	How Wattage is determined	Total number luminaires	Luminaire Status[2]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 150W §130.2(b)[3]	Pass	Fail
E	E - LED Wall Sconce	22	Mfr. Spec[1]	5	New	☐	110		☐	☐
						Total Designed Watts:	**110**			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

Reset | Add Row | Remove Last

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

This Section Does Not Apply

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Chavez HS Stockton USD Swimming Pool	Report Page: Page 3 of 6
Project Address:	2929 Windflower Ln	Date Prepared: 11/20/2019

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 07, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01	02	03	04	05	06	07	08	
							Field Inspector	
Area Description	Motion Sensor: Incandescent>100W §130.2(a)	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Sales Frontage §130.2(c)4	Façade, Ornament, Outdoor Dining §130.2(c)5	Pass	Fail
Entrance/ Exit	NA: No Incand>100V	Photocontrol	Yes	NA: Walls≤30W	NA: No Sales Front Ltg	No Applicable Ltg	☐	☐
Pedestrian Hardscape	NA: No Incand>100V	Photocontrol	Yes	NA: Walls≤30W	NA: No Sales Front Ltg	No Applicable Ltg	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

Reset | Add Row | Remove Last

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01					
	"Use it or lose it" Allowance (Watts)					
General Hardscape Allowance	☑ Per Application	☐ Sales Frontage	☐ Ornamental	☐ Per Specific Area		
Table I (below)	Table J	Table K	Table L	Table M		

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A

02	03	04	05	06	07	08	09
	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
Area Description	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Pedestrian Hardscape	410	0.04	16.4	102	0.35	35.7	52.1

Reset | Add Row | Remove Last

Initial Wattage Allowance for Entire Site (Watts):	**520**
Total General Hardscape Allowance (Watts):	**572.1**

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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Project Address:	2929 Windflower Ln	Date Prepared: 11/20/2019

J. LIGHTING ALLOWANCE: PER APPLICATION

Table Instructions: Please complete this table for areas using the wattage allowance per application from Table-140.7-B.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2] (Watts)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entrance/ Exit	Bldg Entrance/ Exit	4	35	140	E	22	4	88	
							Total Design Watts for this Area:	88	88
								Add Luminaire	Remove Last
							Total Allowance (Watts) All Areas:		**88**
							Reset	Add Row	Remove Last

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
[2] The Allowance per Location for ATMs is 250W for the first ATM and 70W for each additional per Table 140.7-B.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

STATE OF CALIFORNIA
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NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Chavez HS Stockton USD Swimming Pool	Report Page: Page 5 of 6
Project Address:	2929 Windflower Ln	Date Prepared: 11/20/2019

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: 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 http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRG

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	○	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Chavez HS Stockton USD Swimming Pool	Report Page: Page 6 of 6
Project Address:	2929 Windflower Ln	Date Prepared: 11/20/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Sammy Fernandez	Documentation Author Signature:	
Company:	American Consulting Engineers Electrical, Inc.	Signature Date:	11/20/2019
Address:	1590 The Alameda Suite 200	CEA/ HERS Certification Identification (if applicable):	6B66-CE2F-1F36-F9C7-EFEB-E42B-0
City/State/Zip:	San Jose, CA 95126	Phone:	408-236-2312

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:	Sammy Fernandez	Responsible Designer Signature:	
Company :	American Consulting Engineers Electrical, Inc.	Date Signed:	11/20/2019
Address:	1590 The Alameda Suite 200	License:	E16890
City/State/Zip:	San Jose, CA 95126	Phone:	408-236-2312

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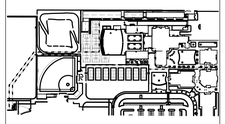


SHEET TITLE

TITLE 24 - OUTDOOR MECHANICAL ROOM

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

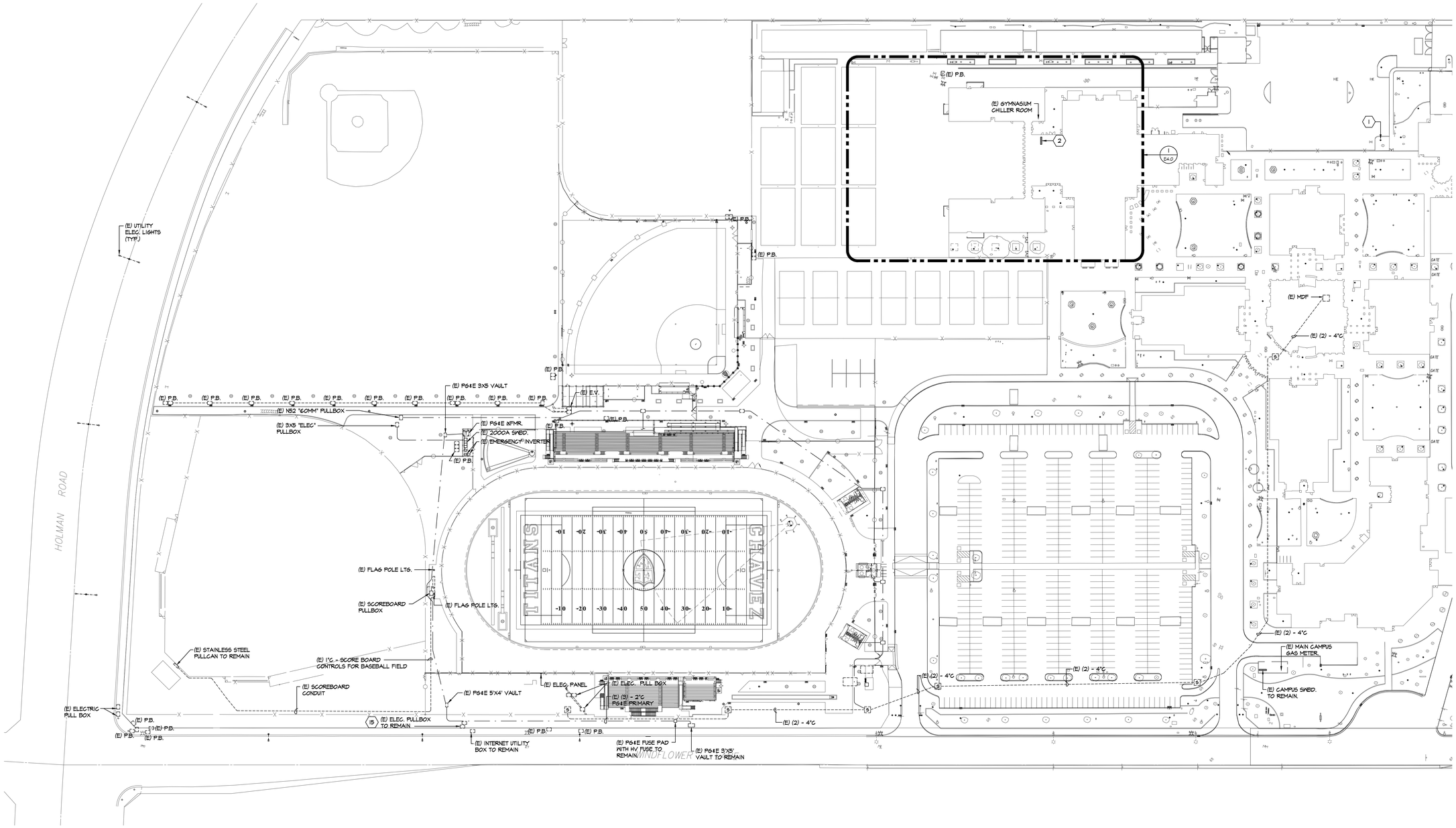
PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: MG
CHECKED BY: SF
DATE ISSUED: 03/13/2020
SCALE:
PROJ. NO.: 1910900-1211
SHEET NO.: E0.3



1 ELECTRICAL DEMOLITION SITE PLAN

E1.0 SCALE: 1" = 60'-0"

NORTH

DEMOLITION SHEETS NOTES:

1. (E) CAMPUS SWITCHGEAR TO REMAIN.
2. (E) 400A DISTRIBUTION BOARD FOR GYMNASIUM.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING ELECTRICAL EQUIPMENT NOTED ON DRAWINGS AND REMOVE TO SOURSE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND LOCATING POWER AND COMMUNICATION SOURCE AND PROPERLY SAFE-OFF ALL ELECTRICAL EQUIPMENT NOTED TO BE DEMOLISHED.

DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E1.0_Electrical Site Plan Demo.dwg
PLOT DATE: 04-09-20 PLOTTED BY: sbuhay

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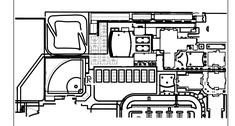


SHEET TITLE

ELECTRICAL DEMOLITION SITE PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

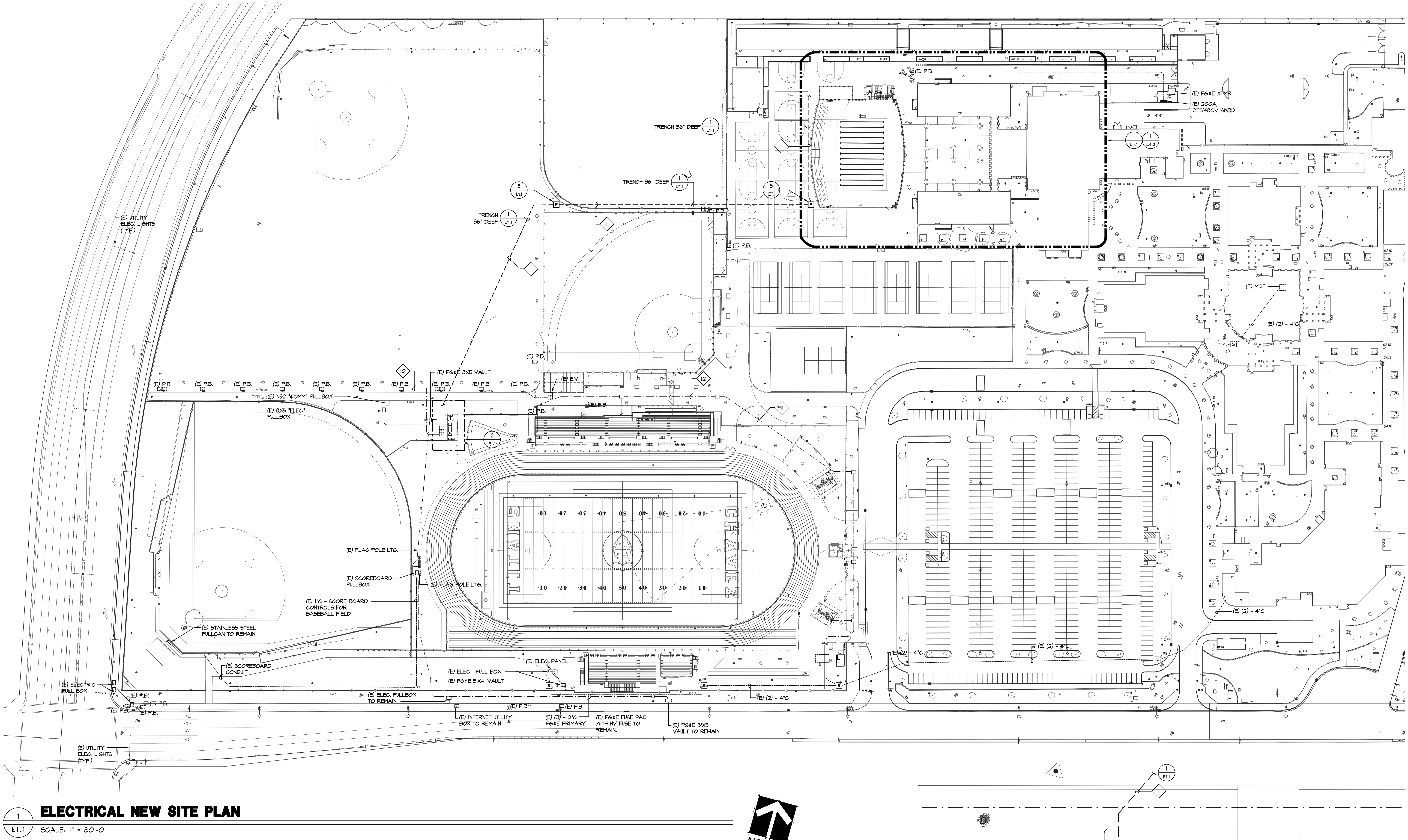
PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
MG	SF
DATE ISSUED: 03/13/2020	SCALE
PROJ. NO.: 1910900-1211	
SHEET NO.: E1.0	



1 E1.1 **ELECTRICAL NEW SITE PLAN**

SCALE: 1" = 80'-0"

SHEETS NOTES:

1. UNDERGROUND CONDUIT AND BOXES BY ATHLETIC FIELD CONTRACT.
2. CONTRACTOR TO PROVIDE AND ROUTE CABLES IN UNDERGROUND CONDUITS.

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2016 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.

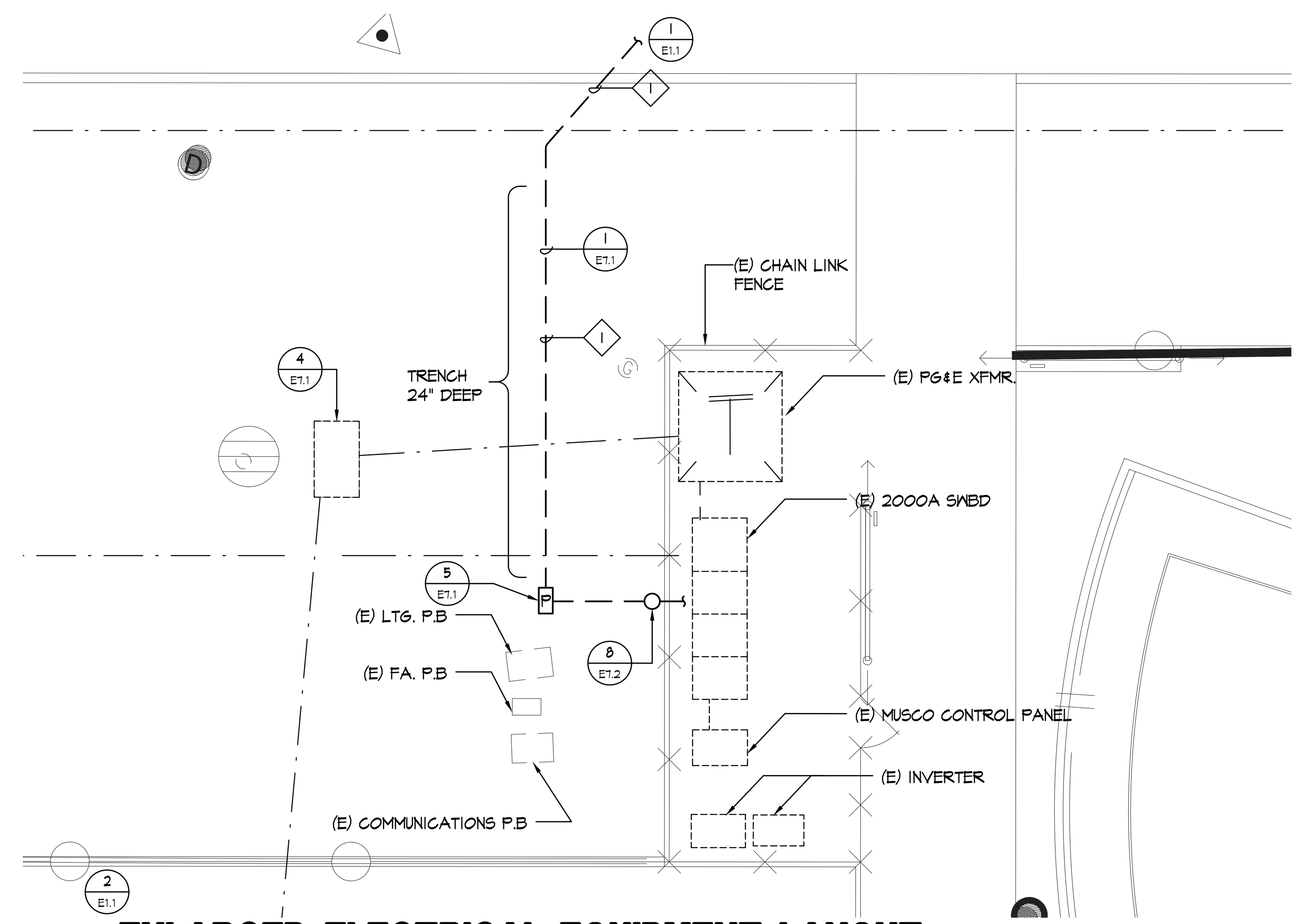
CONDUIT SCHEDULE:

POWER SYSTEMS

1. (N) (2) 4""C - SWIMMING POOL

COMMUNICATION SYSTEMS

10. (E) 4"CO - DATA / FIBER (VOIP)
(E) 2"CO - SIGNAL
11. (E) 4"C - DATA/ FIBER (VOIP)
(E) 4"CO - DATA/ FIBER (VOIP)
(E) 2"CO - SIGNAL
12. (E) 4"C - FIBER (VOIP) - FOOTBALL PRESS BOX
(E) 4"C - FIBER (VOIP) - SOFTBALL PRESS BOX
(E) 4"CO - DATA / FIBER (VOIP BASEBALL)
(E) 2"CO - SIGNAL
13. (E) 4"C - FIBER (VOIP)
(E) 4"CO - FIBER
(E) 2"CO - SIGNAL



2 E1.1 **ENLARGED ELECTRICAL EQUIPMENT LAYOUT**

SCALE: 1/8" = 1'-0"

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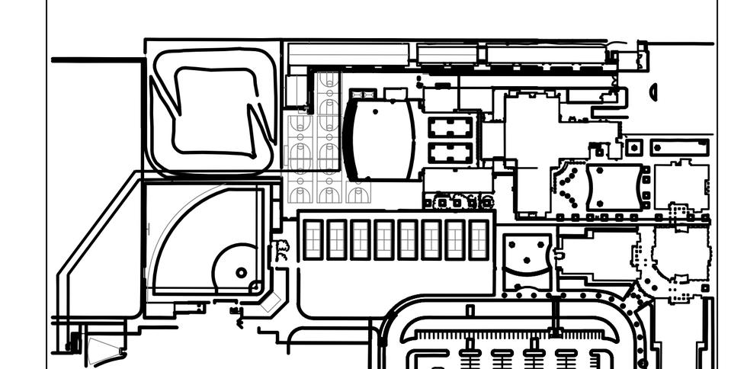

SHEET TITLE

ELECTRICAL NEW SITE PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
△		
△		
△		
△		
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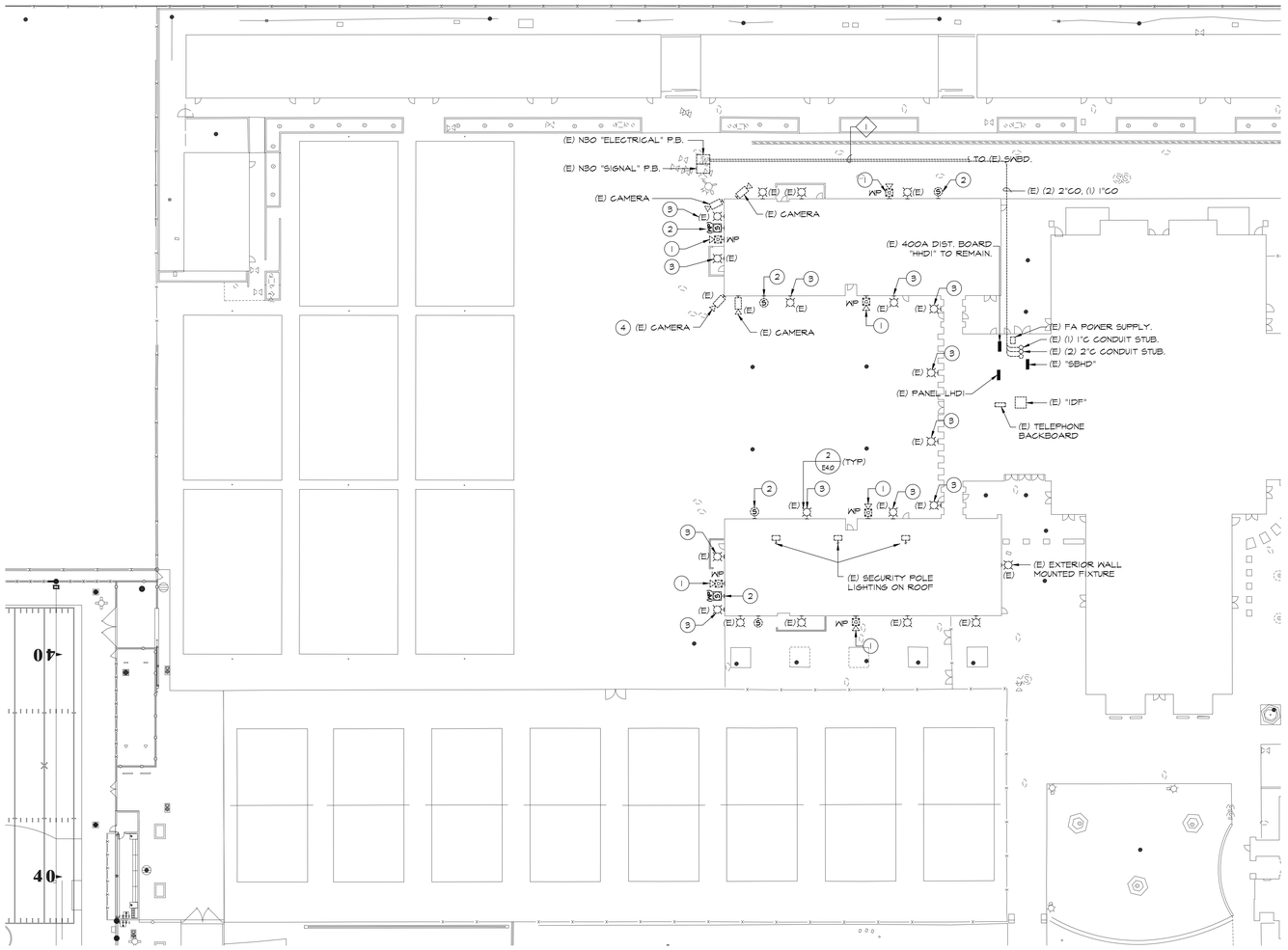
DRAWN BY	CHECKED BY
MG	SF
DATE ISSUED 03/13/2020	SCALE

PROJ. NO. 1910900-1211

SHEET NO. E1.1

ELECTRICAL NEW SITE PLAN



1 ENLARGED SWIMMING POOL - ELECTRICAL DEMOLITION SITE PLAN

E4.0 SCALE: 1" = 30'-0"

NORTH

GENERAL DEMOLITION NOTES:

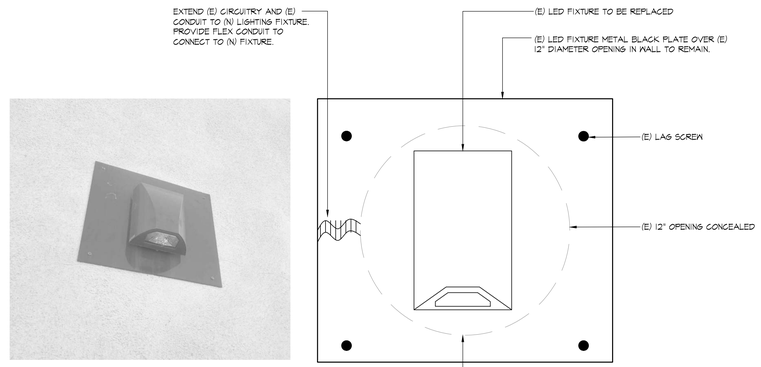
1. CONTRACTOR SHALL COORDINATE UNDERGROUND DEMOLITION REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL PHASING SCHEDULE. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. (E) PULL BOX NOT SHOWN OR INDENTIFIED ON DRAWINGS TO REMAIN AND SHALL NEED TO BE ADJUSTED TO (N) FINISH GRADE. CONTRACTOR TO PROVIDE AND INCLUDE, IN BID, BOX ADJUSTMENTS. ADJUSTMENTS INCLUDE (N) GRAVEL AND ADDITIONAL PULL BOX APRON.
4. ALL (E) CONDUITS SHOWN ON DRAWINGS ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT ROUTING. CONTRACTORS TO INCLUDE IN BID PROFESSIONAL UNDERGROUND CONDUIT LOCATOR AS NEEDED FOR HE/SHE TO BE FAMILIAR WITH THE (E) SITE CONDITIONS AND PROVIDE REQUIRED WORK AND ADJUSTMENTS TO EXTEND/RECONNECT POWER CONDUITS AS NOTED IN DRAWINGS.

DEMOLITION SHEETS NOTES:

1. (E) FA HORN TO REMAIN.
2. (E) SPEAKER TO REMAIN.
3. (E) EXTERIOR WALL MOUNTED FIXTURES TO BE REPLACED. REMOVE EXISTING FIXTURE. SEE E4.2 FOR ADDITIONAL INFORMATION.
4. (E) AVIGILON SECURITY CAMERA TO BE REPLACE. PRESERVE EXISTING WIRING AND CAMERA MOUNT AS THIS IS TO BE USED TO INSTALL NEW CAMERA. RETURN (E) AVIGILON SECURITY CAMERA TO DISTRICT.

CONDUIT SCHEDULE:

1. (E) (2) 4"GO - POWER



(E) FIXTURE (TYP.)

2 TYPICAL WALL MOUNTED FIXTURE ON GYM EXTERIOR WAL

E4.0 SCALE: N/A

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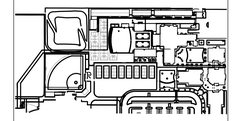
KEYMAP



SHEET TITLE

ENLARGED SWIMMING POOL ELECTRICAL DEMOLITION SITE PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
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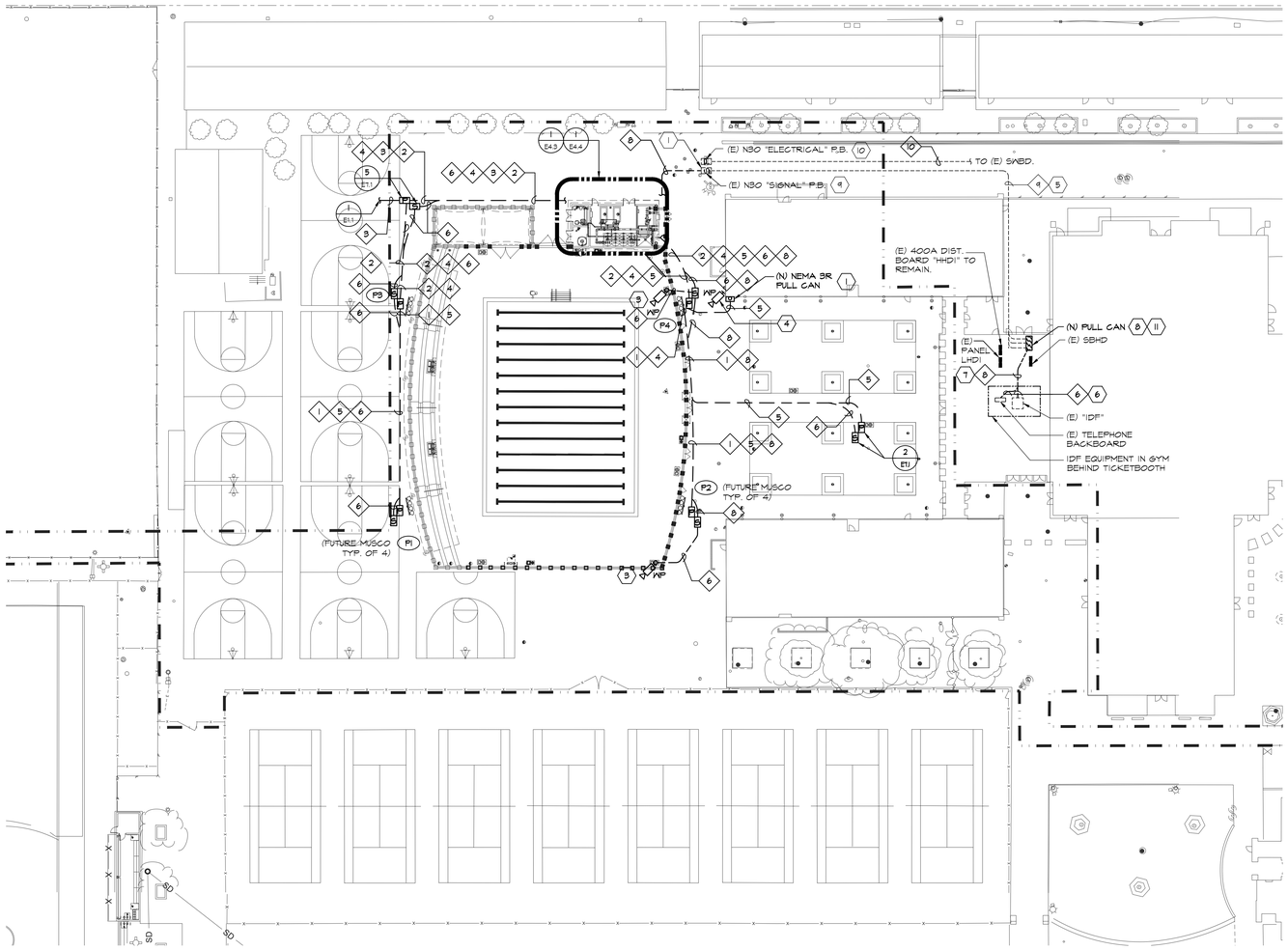
6		

DRAWN BY	CHECKED BY
MG	SF
DATE ISSUED: 03/13/2020	SCALE:

PROJ. NO.: 1910900-1211

SHEET NO.: E4.0

DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E4.0_Enlarged Swimming Pool Site Plan Demo.dwg
PLOT DATE: 04-09-20 PLOTTED BY: sbuhay



1 / E4.1 ENLARGED SWIMMING POOL - NEW SITE PLAN POWER AND SIGNAL

SCALE: 1" = 30'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2016 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.
13. ALL PULL BOXES SHALL BE TRAFFIC RATED B2436 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
14. COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.

SHEETS NOTES:

1. (N) NEMA-3R PULL CAN WITH 120V RECEPTACLE WITH IN USE COVER. PROVIDE LABEL OF CIRCUIT NUMBER AND PANEL PER NEC. HOMERUN TO PANEL LP VIA LIGHTING RELAY.
2. ROUTE (N) CONDUIT IN (E) SIGNAL BOX. UTILIZE EXISTING PATHWAY TO CONNECT TELEPHONE/DATA TO (N) POOL BUILDING.
3. MOUNT (N) AVIGILON SECURITY CAMERA ON (N) EGRESS LIGHT POLE. COORDINATE MOUNTING HEIGHT WITH DISTRICT. SEE DATA RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. (N) AVIGILON 32C-H4A-4MH-360 CAMERA WITH H4MH-DO-COVR 1 DOME COVER. INSTALL AND CONNECT ON EXISTING MOUNT AND CONNECT TO EXISTING DATA WIRES. SUBMIT (N) CAMERA MODEL TO DISTRICT FOR APPROVAL.
5. UTILIZE (E) (1) 2" CONDUIT TO ROUTE NEW SECURIT AND TELEPHONE CABLES FOR NEW POOL AREA.
6. ROUTE (N) 2"C UP WALL TO HEIGHT OF (E) CONDUITS NEAR CEILING. PENETRATE WALL TO ENTER (E) ELECTRICAL ROOM. CONNECT TO NEW PULL CAN IN (E) ELECTRICAL ROOM.
7. UTILIZE (N) (1) 2" CONDUIT TO ROUTE NEW SECURITY AND TELEPHONE CABLES FOR NEW POOL AREA.
8. STUB EXISTING (2) 2"C AND (1) 1"C INTO NEW 12"x12"x6" PULL CAN.
9. REPLACE (E) NBO SIGNAL BOX WITH NEW B2436 IN-GRADE BOX. LABEL LID "SIGNAL".
10. REPLACE (E) NBO POWER BOX WITH NEW B2436 IN-GRADE BOX. LABEL LID "ELECTRICAL".
11. LOCATE (E) SPARE (1) 2"C AND EXTEND TO (E) IDF ROOM AS SHOWN.

CONDUIT SCHEDULE:

1. (N) 2"C - POWER - MUSCO
2. (N) (2) 2"C - POWER - MUSCO
3. (N) (2) 4"C - POWER - SWIMMING POOL
4. (N) (2) 1 1/2"C - POWER
5. (N) (1) 1 1/2"C - POWER
6. (N) (1) 2"C - SIGNAL
7. (N) (1) 2"C - SIGNAL
8. (N) (2) 2"C - SIGNAL
9. (E) (2) 2"C - SIGNAL
10. (E) (1) 2"CO - POWER

IDENTIFICATION STAMP
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APP: 02-118018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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REGISTERED PROFESSIONAL ENGINEER
MATTHEW S. FERTMAN
E16890
12/31/19
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STATE OF CALIFORNIA

CONSULTANT

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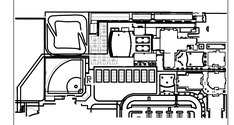
KEYMAP



SHEET TITLE

ENLARGED SWIMMING POOL
NEW SITE PLAN
POWER AND SIGNAL

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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5		
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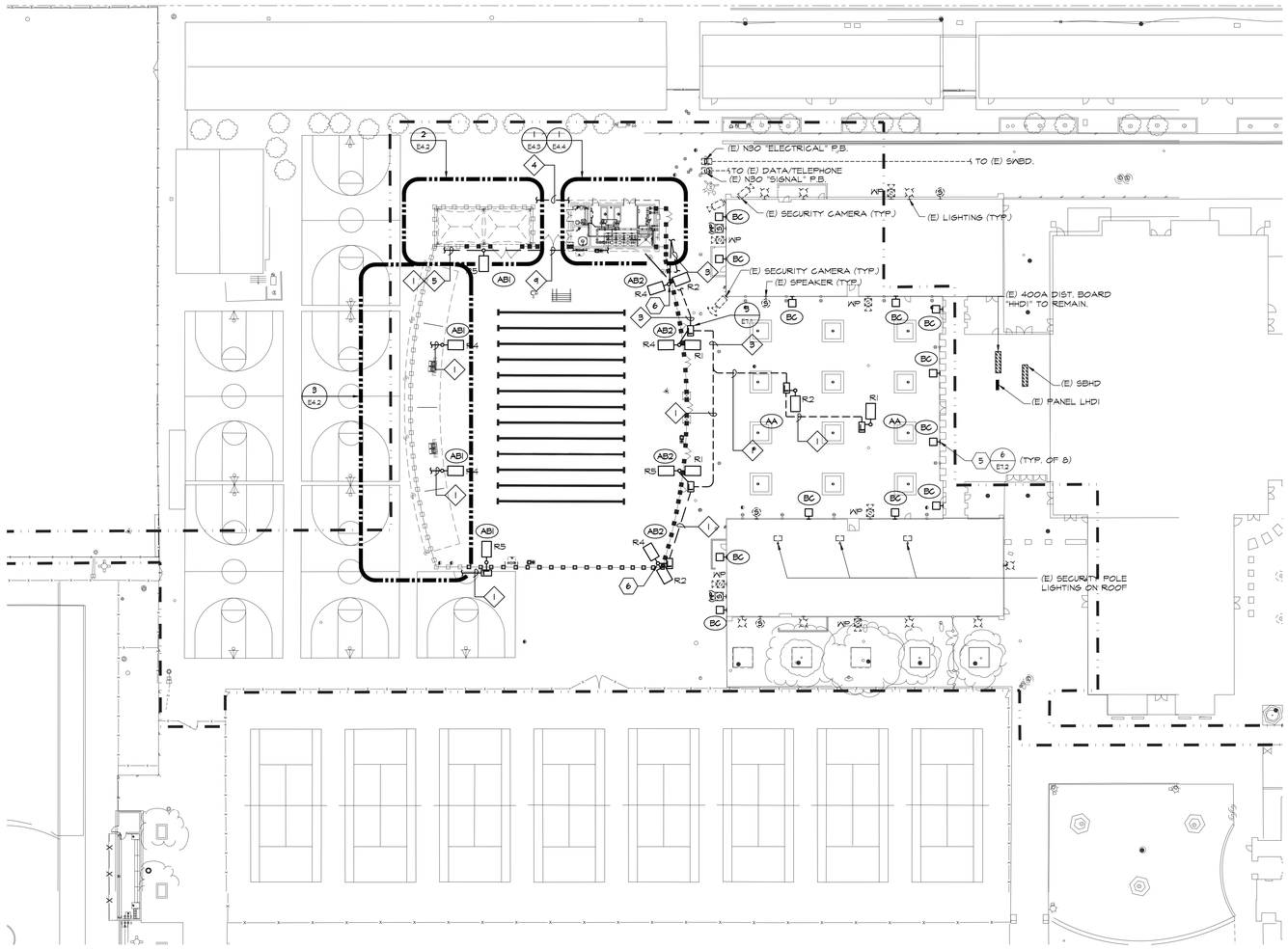
DRAWN BY	CHECKED BY
MG	SF
DATE ISSUED: 03/13/2020	SCALE:

PROJ. NO. 1910900-1211

SHEET NO. E4.1

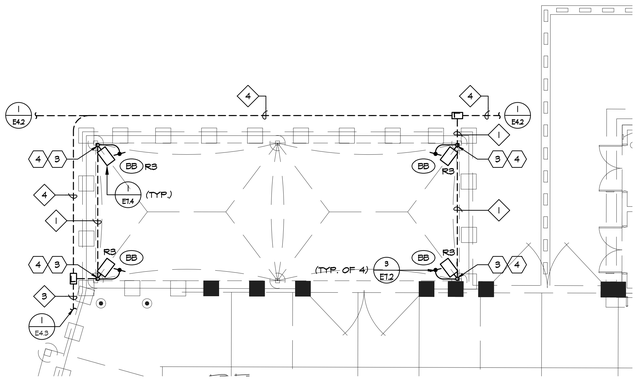
DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E4.1_Enlarged Swimming Pool Site Plan Power and Signal.dwg
PLOT DATE: 04-09-20 PLOTTED BY: sbuhay



1 ENLARGED SWIMMING POOL - ELECTRICAL NEW SITE PLAN

E4.2 SCALE: 1" = 30'-0"

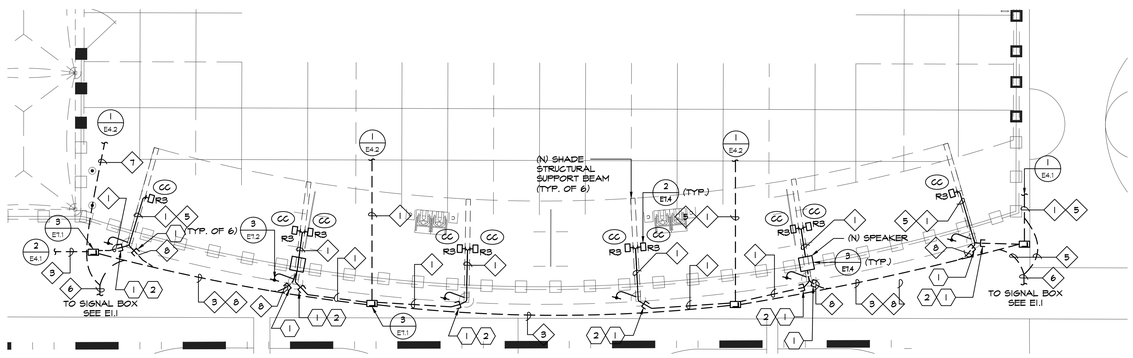
NORTH



2 ENLARGED STORAGE STRUCTURE LIGHTING PLAN

E4.2 SCALE: 1/8" = 1'-0"

NORTH



3 ENLARGED SHADE STRUCTURE LIGHTING PLAN

E4.2 SCALE: 3/32" = 1'-0"

NORTH

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2016 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.
13. ALL PULL BOXES SHALL BE TRAFFIC RATED B10IT UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
14. COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.
15. ALL WALKWAY LIGHTING POLE SHALL BE NUMBERED TO IDENTIFY POLE. PROVIDE STANDARD ADHESIVE NAME PLATE PER MANUFACTURES RECOMMENDATION.
16. ALL WALKWAY POLES ARE 15' IN HEIGHT WITH FLUSH BASE. PROVIDE AND INSTALL AS NOTED ON POLE BASE DETAIL.
17. LIGHTING ON EMERGENCY CIRCUITS SHALL BE ROUTED IN EMERGENCY CONDUIT. DO NOT SHARE WITH NON-EMERGENCY CIRCUITS.
18. N-4 BOXES WITH EMERGENCY CIRCUITS SHALL BE LABELED "EMERGENCY LIGHTING".

SHEETS NOTES:

1. STUB CONDUIT IN CONCRETE BASE AT SHADE STRUCTURE. COORDINATE WITH SHADE STRUCTURE INSTALLER.
2. ROUTE FEEDERS TO (N) LIGHT FIXTURE CONCEALED IN SHADE STRUCTURE POST. USE FLEX CONDUIT TO TRANSITION FROM SHADE STRUCTURE POST TO SHADE STRUCTURE SUPPORT BEAM. COORDINATE WITH SHADE STRUCTURE INSTALLER.
3. STUB CONDUIT IN CONCRETE BASE AT STORAGE STRUCTURE. COORDINATE WITH SHADE STRUCTURE INSTALLER.
4. ROUTE FEEDERS TO (N) LIGHT FIXTURES CONCEALED IN STORAGE STRUCTURE POST. COORDINATE WITH STORAGE STRUCTURE INSTALLER.
5. CONTRACTOR SHALL INSTALL AND RECONNECT NEW FIXTURE HEAD IN EXACT LOCATION OF (E) FIXTURE HEAD.
6. SECURITY CAMERA TO BE MOUNTED ON THIS POLE. SEE E4.2 FOR CAMERA LOCATION AND SIGNAL CONDUIT LAYOUT, MOUNT CAMERA AT 12' A.F.F.

CONDUIT SCHEDULE:

1. (N) 1"C - POWER - LIGHTING
2. NOT USED.
3. (N) (2) 1"C - POWER - LIGHTING
4. (N) (3) 1"C - POWER - LIGHTING
5. (N) 1 1/4"CO - SIGNAL
6. (N) 1 1/4"C - SIGNAL - SPEAKER
   (N) 1 1/4"CO - SIGNAL
7. (N) 2 1/4"C - SIGNAL - SPEAKER
   (N) 1 1/4"C - SIGNAL
8. (N) 1 1/4"C - SIGNAL - SPEAKER
9. (N) (2) 1 1/4"C - SIGNAL - SPEAKER

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APP: 02-118018 INC:
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REGISTERED PROFESSIONAL ENGINEER STEVEN S. FERTANIS E16890 Exp. 06/30/19 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

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San Jose, CA 95126
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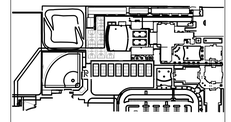
KEYMAP



SHEET TITLE

ENLARGED SWIMMING POOL ELECTRICAL NEW SITE PLAN LIGHTING

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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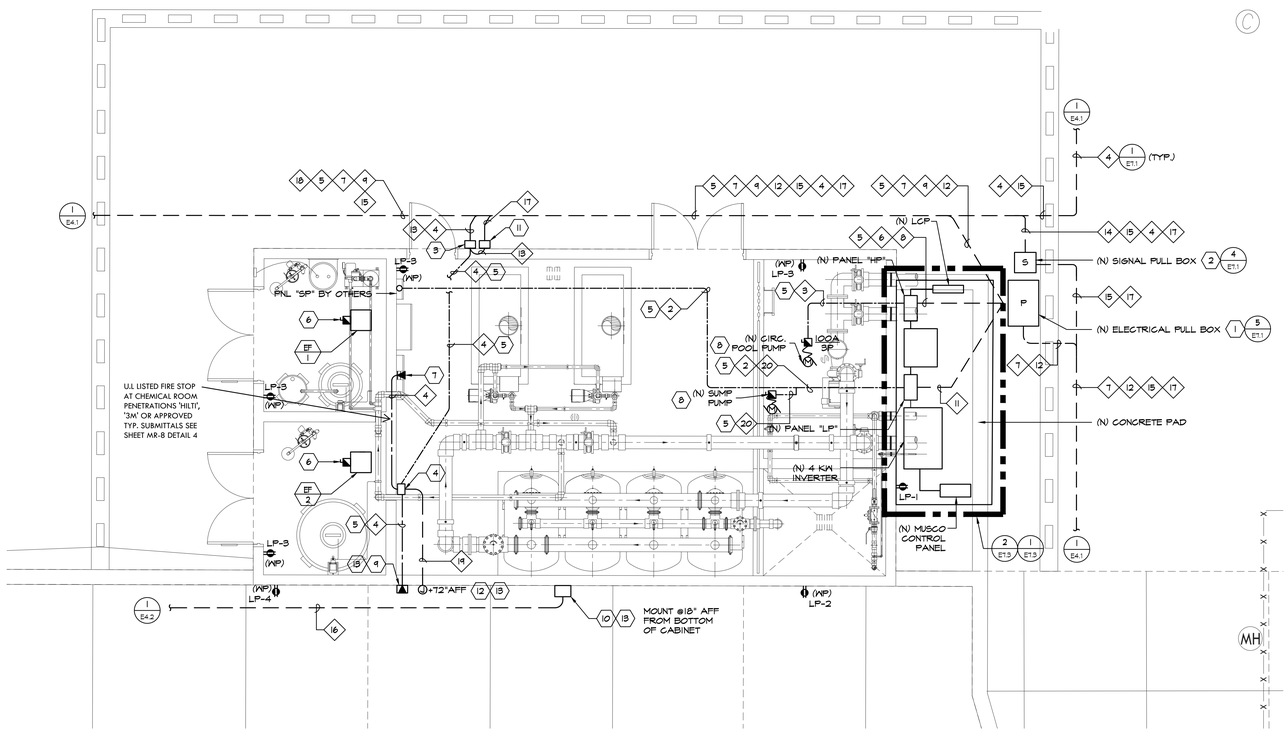
MG	SF
DATE ISSUED: 03/13/2020	SCALE
PROJ. NO.: 1910900-1211	
SHEET NO.: E4.2	



1 MECHANICAL ROOM - ELECTRICAL NEW FLOOR PLAN

E4.3 SCALE: 1/4" = 1'-0"

PANEL NAME:	(N) HP	FED FROM: (E) MSG
VOLTAGE:	480/277V	MAIN O/B: 400A/MF3P
PHASE:	3	BUSSING: 400 AMP
WIRE:	4	MIN. A/C: 10,000
TYPE:	NEMA 3R	SUB-FEED O/B:
MOUNTING:	SURFACE	FEED THRU LUGS: YES

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL.	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL.	CIRCUIT DESCRIPTION
(N) 75KVA XFMR				24.91	90A	1	A	2	70A			9.41		(N) CIRC. PUMP - POOL BUILDING
" "				24.91		3	B	4				9.41		" "
" "				24.91	3P	5	C	6	3P			9.41		" "
MUSCO P1		1.00			20A	7	A	8	20A		1.00			MUSCO P3
" "		1.00				9	B	10			1.00			" "
" "		1.00			3P	11	C	12	3P		1.00			" "
MUSCO P2		1.00			20A	13	A	14	20A		1.00			MUSCO P4
" "		1.00				15	B	16			1.00			" "
" "		1.00			3P	17	C	18	3P		1.00			" "
SPARE					20A/1P	19	A	20	20A/1P		3.00			MUSCO EGRESS
					20A/1P	21	B	22	20A/1P		1.00			POOL LIGHTING
					20A/1P	23	C	24	20A/1P		1.00			COURTYARD LIGHTING
					20A/1P	25	A	26	20A/1P					SPARE
					20A/1P	27	B	28	20A/1P					
					20A/1P	29	C	30	20A/1P					
					20A/1P	31	A	32	20A/1P					
					20A/1P	33	B	34	20A/1P					
					20A/1P	35	C	36	20A/1P					
					1000A/1P	37	A	38	20A					
					20A	39	B	40						
					2P	41	C	42	3P					
	0	6.0	0	74.7						0	11.0	28.2	0	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	0	1.25	0.0
(REC) RECEPTS PER 220.44;	10.0	1.00	10.0
10KVA x 100% + REMAINDER x 50%	7.0	0.50	3.5
(MTR) LARGEST MOTOR X 125%	28.2	1.25	35.3
+ REMAINING MOTORS x 100%	0	1.00	0.0
(NCL) NON CONTINOUS LOAD x 100%	74.7	1.00	74.7

	Yes/No
FULL RATED A/C	Y
SERIES RATED A/C	N
SPD	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	41.3
KVA PHASE B (CONNECTED)	39.3
KVA PHASE C (CONNECTED)	39.3
SUB FEED CONNECTED LOAD	
TOTAL DEMAND KVA	123.5
TOTAL LOAD AMPERES	148.7

PANEL NAME:	(N) LP	FED FROM: 75KVA XFMR
VOLTAGE:	208/120V	MAIN O/B: 200A/MF3P
PHASE:	3	BUSSING: 200 AMP
WIRE:	4	MIN. A/C: 10,000
TYPE:	NEMA 3R	SUB-FEED O/B:
MOUNTING:	SURFACE	FEED THRU LUGS: YES

CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CB AMP/P	CKT #	PH	CKT #	CB AMP/P	LOAD TYPE (KVA) LTG	REC	MTR	NCL	CIRCUIT DESCRIPTION
(N) REC - OUTDOOR		0.72			20A/1P	1	A	2	20A/1P				0.50	(N) REC - OUTDOOR POOL AREA
(N) REC - POOL BUILDING		0.72			20A/1P	3	B	4	20A/1P				0.93	(N) REC - BASKETBALL COURTS
(N) REC - INTRUSION		0.36			20A/1P	5	C	6	20A/1P		0.18			(N) RECEPTACLE COURTYARD WALL (14)
(N) LTG - EXTERIOR	0.21				20A/1P	7	A	8	20A/1P					(N) SUMP PUMP
(N) LTG - INTERIOR	0.48				20A/1P	9	B	10	20A/1P					SPARE
(N) LCP #4				0.50	20A/1P	11	C	12	20A/1P					
SPARE					20A/1P	13	A	14	20A/1P					
					20A/1P	15	B	16	20A/1P					
					20A/1P	17	C	18	20A/1P					
					20A/1P	19	A	20	20A/1P					
					20A/1P	21	B	22	20A/1P					
					20A/1P	23	C	24	20A/1P					
					20A/1P	25	A	26	20A/1P					
					20A/1P	27	B	28	20A/1P					
					20A/1P	29	C	30	20A/1P					
					20A/1P	31	A	32	20A/1P					
					20A/1P	33	B	34	20A/1P					
					20A/1P	35	C	36	20A/1P					
					20A/1P	37	A	38	20A/1P					
					20A/1P	39	B	40	20A/1P					
					20A/1P	41	C	42	20A/1P					
	0.7	1.8	0	0.5						0	0.2	0	1.4	

LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
(LTG) LIGHTING X 125%	0.7	1.25	0.9
(REC) RECEPTS PER 220.44;	2.0	1.00	2.0
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0
(MTR) LARGEST MOTOR X 125%	0	1.25	0.0
+ REMAINING MOTORS x 100%	0	1.00	0.0
(NCL) NON CONTINOUS LOAD x 100%	1.9	1.00	1.9

	Yes/No
FULL RATED A/C	Y
SERIES RATED A/C	N
SPD	N
COPPER BUSSING	Y
ALUMINUM BUSSING	N

KVA PHASE A (CONNECTED)	1.4
KVA PHASE B (CONNECTED)	2.1
KVA PHASE C (CONNECTED)	1.0
SUB FEED CONNECTED LOAD	
TOTAL DEMAND KVA	4.8
TOTAL LOAD AMPERES	13.3

GENERAL NOTES:

1. ALL (N) OUTLETS IN NEW POOL BUILDING SHALL BE PROVIDED WITH NEW CONDUCTORS AND CONDUITS. MINIMAL SIZE FOR CONDUIT IS 3/4"G WITH #12 CONDUCTORS AND GROUND. ROUTE TO (N) PANEL "LP" U.O.N. OUTLETS SHALL BE PROTECTED WITH GFC BREAKERS.
2. ALL EXPOSED CONDUITS INSIDE POOL BUILDING SHALL BE RIGID STEEL.
3. CONDUITS INSTALLED EXPOSED IN (N) POOL BUILDING SHALL BE ROUTED BELOW CEILING ON TRAPEZE UNISTRUT.

SHEETS NOTES:

1. LABEL LID "ELECTRICAL". PROVIDE TRAFFIC RATED LID.
2. LABEL LID "SIGNAL". PROVIDE TRAFFIC RATED LID.
3. (N) SIGNAL PULL CAN. NEMA-4 24"W x 24"H x 8"D HINGE TYPE; STAINLESS STEEL WITH LOCKABLE COVERS. PROVIDE (N) TERMINAL BLOCK AND PROVIDE (N) 12-PAIR TELEPHONE CABLES.
4. (N) STAINLESS STEEL SIGNAL TERMINAL CABINET, 24"W x 24"H x 8"D BOX. PROVIDE TERMINAL BLOCK TO TERMINATE ALL 12-PAIR. PROVIDE 60LL 10' OF 12-PAIR TELEPHONE CABLE. PROVIDE 120V CIRCUIT AND RECEPTACLE INSIDE PULL CAN. CONNECT TO PANEL "LP".
5. PROVIDE TRAPEZE UNISTRUT SUPPORT.
6. PROVIDE NEMA-3R 30A/1P FOR (N) EXHAUST FANS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
7. PROVIDE ANALOG TELEPHONE CONNECTION FOR WATER CHEMISTRY CONTROLLER. PROVIDE DEDICATED LINE TO ALLOW FOR MONITORING OF CONTROLLER. COORDINATE WITH DISTRICT FOR REQUIREMENTS FOR ACTIVE LINE AT MPOE. COORDINATE WITH POOL CONTRACTOR TO CONNECT TO CONTROLLER.
8. PROVIDE AND INSTALL MOTOR STARTER AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS.
9. PROVIDE TELEPHONE OUTLET AND PLACE IN NEMA 4R ENCLOSURE. NON-METALLIC WITH LOCKABLE FEATURES. MOUNT 48" AFF. PROVIDE LABEL TO IDENTIFY "EMERGENCY PHONE".
10. PROVIDE LOCKABLE PLASTIC NEMA 4X ENCLOSURE WITH PLUS TO SPEAKER. COORDINATE WITH DISTRICT USER AND ARCHITECT FOR EXACT LOCATION. COORDINATE WITH SIGNAGE.
11. (N) SIGNAL PULL CAN. NEMA-4 24"W x 24"H x 8"D HINGE TYPE; STAINLESS STEEL WITH LOCKABLE COVERS. PROVIDE 120V POWER AND SIGNAL/ POWER BOOSTER FOR SECURITY CAMERA.
12. OUTDOOR RATED JUNCTION BOX WITH STAINLESS STEEL COVER PLATE.
13. COORDINATE WITH LANDSCAPE ARCHITECT TO AVOID BUILDING SIGNAGE.
14. PROVIDE GFCI BREAKER

CONDUIT SCHEDULE:

1. (N) (4) 2"C - POWER.
2. (N) 2"C - POWER (ROUTE BELOW CEILINGS).
3. (N) 2"C - POOL PUMP (ROUTE BELOW CEILINGS).
4. (N) 2"C - SIGNAL - TELEPHONE.
   (N)2"C - SIGNAL - DATA.
5. (N) (2) 4"C - SWIMMING POOL
6. (N) (4) 2"C - POWER - MUSCO
7. (N) (2) 2"C - POWER - MUSCO
8. (N) (5) 1"C - POWER - LIGHTING
9. (N) (3) 1"C - POWER - LIGHTING
10. (N) (2) 1"C - POWER - LIGHTING
11. (N) (6) 1 1/2"C - POWER
12. (N) (3) 1 1/2"C - POWER
13. (N) (1) 1 1/2"C - POWER
14. (N) (2) 2"C - SIGNAL
15. (N) (1) 2"C - SIGNAL
16. (N) (2) 1 1/4"C - SIGNAL - SPEAKER
17. (N) (2) 2"C - SIGNAL - SECURITY CAMERA
18. (N) (2) 1 1/2"C - POWER
19. (N) 1" CO - DATA
20. (N) 1"C - POWER - SUMP PUMP (ROUTE BELOW CEILING).

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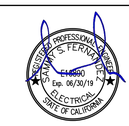

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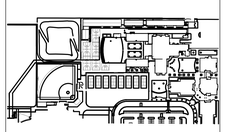
KEYMAP



SHEET TITLE

MECHANICAL ROOM ELECTRICAL NEW FLOOR PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

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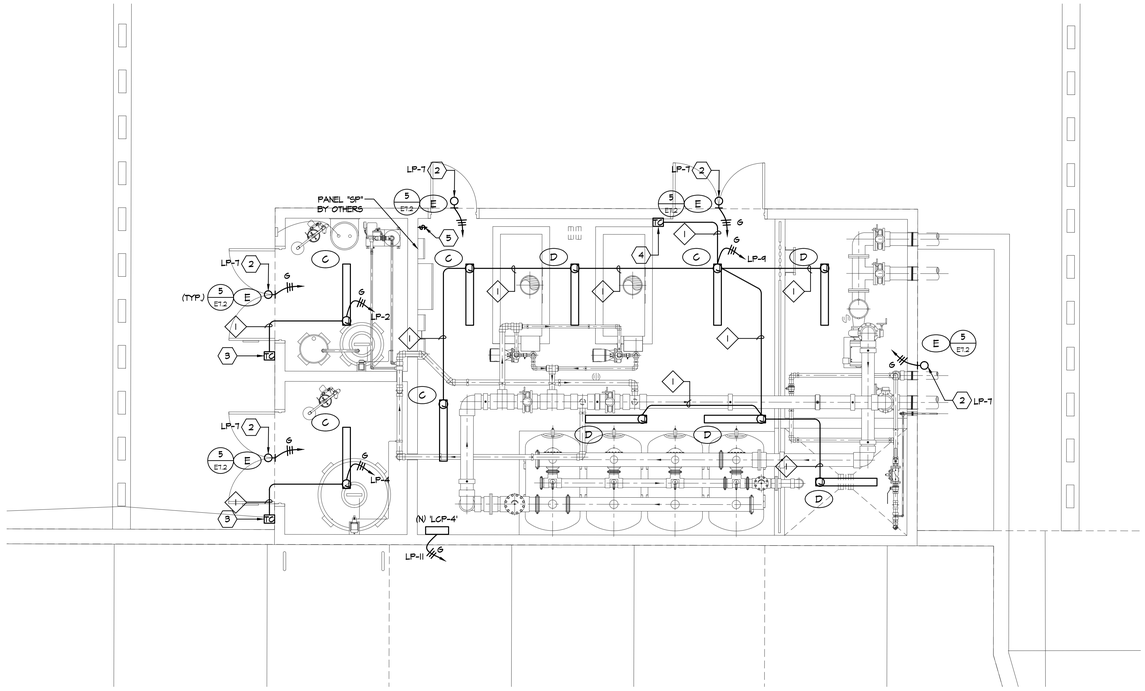
MG	SF
DATE ISSUED: 03/13/2020	SCALE:

PROJ. NO. 1910900-1211

SHEET NO. E4.3



1 MECHANICAL ROOM - LIGHTING NEW FLOOR PLAN

E4.4

SCALE: 1/4" = 1'-0"

FIXTURE SCHEDULE

TYPE	LAMPS	LAMP QUANTITY	BALLAST/ DRIVER	MOUNTING	DESCRIPTION	WEIGHT
C (4 / E1.2)	LED 65W	N/A	0-10V DIMMING DRIVER	SURFACE MOUNT	CFI VAPORLUME 4' SEALED INDUSTRIAL LED, WET LOCATION. DAY-BRITE: DVAETGL840-4-UNV-MD360W 120 VOLT	25.5 LBS
D (4 / E1.2)	LED 32W	N/A	0-10V DIMMING DRIVER	SURFACE MOUNT	CFI VAPORLUME 4' SEALED INDUSTRIAL LED, WET LOCATION. DAY-BRITE: DVAE3SL840-4-UNV-MD360W 120 VOLT	20.5 LBS
E (5 / E1.2)	LED 22W	N/A	0-10V DIMMING DRIVER	WALL MOUNT	EXTERIOR LIGHT LED WALL SCONCE 121 GARDCO: 121-16L-350-NW-64-3 120 VOLT	18.5 LBS

GENERAL NOTES:

1. ALL (N) OUTLETS IN NEW POOL BUILDING SHALL BE PROVIDED WITH NEW CONDUCTORS AND CONDUITS. MINIMAL SIZE FOR CONDUIT IS ¾"G WITH #12 CONDUCTORS AND GROUND. ROUTE TO (N) PANEL "LP" U.O.N. OUTLETS SHALL BE PROTECTED WITH 6FC BREAKERS.
2. EXPOSED CONDUITS SHALL BE RIGID STEEL.
3. CONDUITS INSTALLED EXPOSED IN (N) POOL BUILDING SHALL BE ROUTED BELOW CEILING ON TRAPEZE UNISTRUT.

SHEETS NOTES:

1. NOT USED.
2. ROUTE EXTERIOR LIGHTS VIA 'LCP' TO NOTED CIRCUITRY.
3. PROVIDE AND INSTALL (N) MANUAL WALLBOX TIMER FOR CONTROL OF INTERIOR LIGHTS. TIMER SHALL BE INSTALLED INSIDE OF TYPE 12 ENCLOSURE BY B-LINE '649-12LC'. WALLBOX TIMER SHALL BE BY LEGRAND MODEL #4TI60I; 120V. SURFACE BOX SHALL BE OUTDOOR RATED. COVERS SHALL BE STAINLESS STEEL.
4. PROVIDE WALLBOX TIMER BY LEGRAND MODEL #4TI60I; 120V.
5. WALL MOUNTED SWITCH FOR IN-POOL LIGHTS. COORDINATE WITH ARCHITECT FOR EXACT LOCATION. BOX SHALL BE OUTDOOR RATED. COVER TO BE STAINLESS STEEL.

CONDUIT SCHEDULE:

1. (N) 1 1/4"G - LIGHTING

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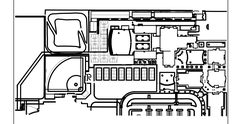

SHEET TITLE

MECHANICAL ROOM
LIGHTING NEW
FLOOR PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
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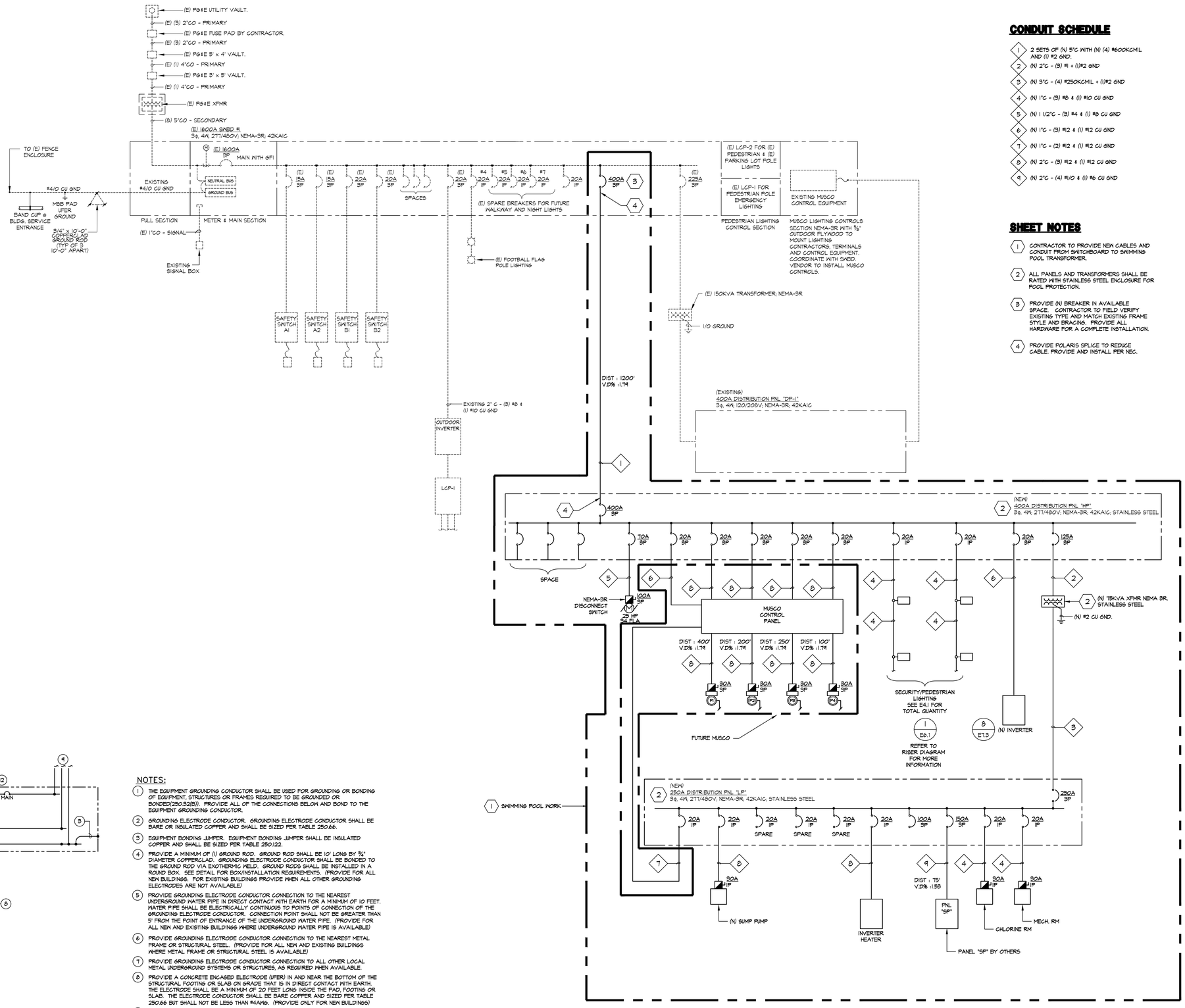
SHEET NO.
E4.4

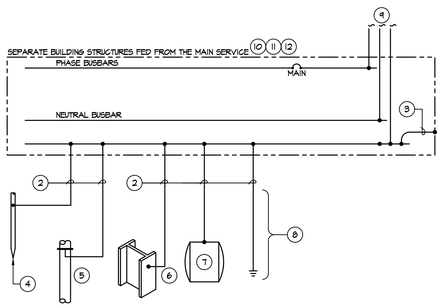


CONDUIT SCHEDULE

1. 2 SETS OF (N) 5"G WITH (N) (4) #600KCMIL AND (1) #2 GND.
2. (N) 2"G - (3) #1 + (1)#2 GND
3. (N) 3"G - (4) #250KCMIL + (1)#2 GND
4. (N) 1"G - (3) #8 & (1) #10 CU GND
5. (N) 1 1/2"G - (3) #4 & (1) #8 CU GND
6. (N) 1"G - (3) #12 & (1) #12 CU GND
7. (N) 1"G - (2) #12 & (1) #12 CU GND
8. (N) 2"G - (3) #12 & (1) #12 CU GND
9. (N) 2"G - (4) #1/0 & (1) #6 CU GND

SHEET NOTES

1. CONTRACTOR TO PROVIDE NEW CABLES AND CONDUIT FROM SWITCHBOARD TO SWIMMING POOL TRANSFORMER.
2. ALL PANELS AND TRANSFORMERS SHALL BE RATED WITH STAINLESS STEEL ENCLOSURE FOR POOL PROTECTION.
3. PROVIDE (N) BREAKER IN AVAILABLE SPACE. CONTRACTOR TO FIELD VERIFY EXISTING TYPE AND MATCH EXISTING FRAME STYLE AND BRACING. PROVIDE ALL HARDWARE FOR A COMPLETE INSTALLATION.
4. PROVIDE POLARIS SPLICE TO REDUCE CABLE. PROVIDE AND INSTALL PER NEC.



NOTES:

1. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED FOR GROUNDING OR BONDING OF EQUIPMENT, STRUCTURES OR FRAMES REQUIRED TO BE GROUNDED OR BONDED(250.32(B)). PROVIDE ALL OF THE CONNECTIONS BELOW AND BOND TO THE EQUIPMENT GROUNDING CONDUCTOR.
2. GROUNDING ELECTRODE CONDUCTOR. GROUNDING ELECTRODE CONDUCTOR SHALL BE BARE OR INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.66.
3. EQUIPMENT BONDING JUMPER. EQUIPMENT BONDING JUMPER SHALL BE INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.122.
4. PROVIDE A MINIMUM OF (1) GROUND ROD. GROUND ROD SHALL BE 10' LONG BY ¾" DIAMETER COPPERCLAD. GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED TO THE GROUND ROD VIA EXOTHERMIC WELD. GROUND RODS SHALL BE INSTALLED IN A ROUND BOX. SEE DETAIL FOR BOX/INSTALLATION REQUIREMENTS. (PROVIDE FOR ALL NEW BUILDINGS. FOR EXISTING BUILDINGS PROVIDE WHEN ALL OTHER GROUNDING ELECTRODES ARE NOT AVAILABLE)
5. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR A MINIMUM OF 10 FEET. WATER PIPE SHALL BE ELECTRICALLY CONTINUOUS TO POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR. CONNECTION POINT SHALL NOT BE GREATER THAN 5' FROM THE POINT OF ENTRANCE OF THE UNDERGROUND WATER PIPE. (PROVIDE FOR ALL NEW AND EXISTING BUILDINGS WHERE UNDERGROUND WATER PIPE IS AVAILABLE)
6. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST METAL FRAME OR STRUCTURAL STEEL. (PROVIDE FOR ALL NEW AND EXISTING BUILDINGS WHERE METAL FRAME OR STRUCTURAL STEEL IS AVAILABLE)
7. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO ALL OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES, AS REQUIRED WHEN AVAILABLE.
8. PROVIDE A CONCRETE ENCASED ELECTRODE (UFER) IN AND NEAR THE BOTTOM OF THE STRUCTURAL FOOTING OR SLAB ON GRADE THAT IS IN DIRECT CONTACT WITH EARTH. THE ELECTRODE SHALL BE A MINIMUM OF 20 FEET LONG INSIDE THE PAD, FOOTING OR SLAB. THE ELECTRODE CONDUCTOR SHALL BE BARE COPPER AND SIZED PER TABLE 250.66 BUT SHALL NOT BE LESS THAN #4AWG. (PROVIDE ONLY FOR NEW BUILDINGS)
9. INCOMING SERVICE FROM THE MAIN SWITCHBOARD. SEE SINGLE LINE DIAGRAM FOR PHASE, NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR SIZING.
10. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE SECONDARY SIDE OF ALL WYE CONNECTED BUILDING TRANSFORMERS. GROUNDING ELECTRODE CONDUCTOR MAY BE CONNECTED TO THE NEAREST STRUCTURAL STEEL OR THE MAIN SERVICE GROUNDING ELECTRODE ONLY. SEE TRANSFORMER GROUNDING DETAIL FOR ADDITIONAL REQUIREMENTS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL GROUNDING AND BONDING AS REQUIRED PER THE CEC.
12. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2 / E5.1 **SEPARATE BUILDING STRUCTURES GROUNDING DETAIL FOR DISTRIBUTION PANEL**

SCALE: NOT TO SCALE

1 / E5.1 **ELECTRICAL SINGLE LINE DIAGRAM - (SWIMMING POOL)**

NOT TO SCALE

DRAWING NAME: \\ACEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E5.1_Single Line Diagram.dwg
PLOT DATE: 04-09-20 PLOTTED BY: stuhoy

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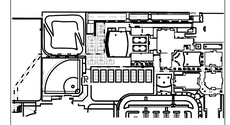

SHEET TITLE

ELECTRICAL
SINGLE LINE DIAGRAM

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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DD SUBMITTAL	10/25/19
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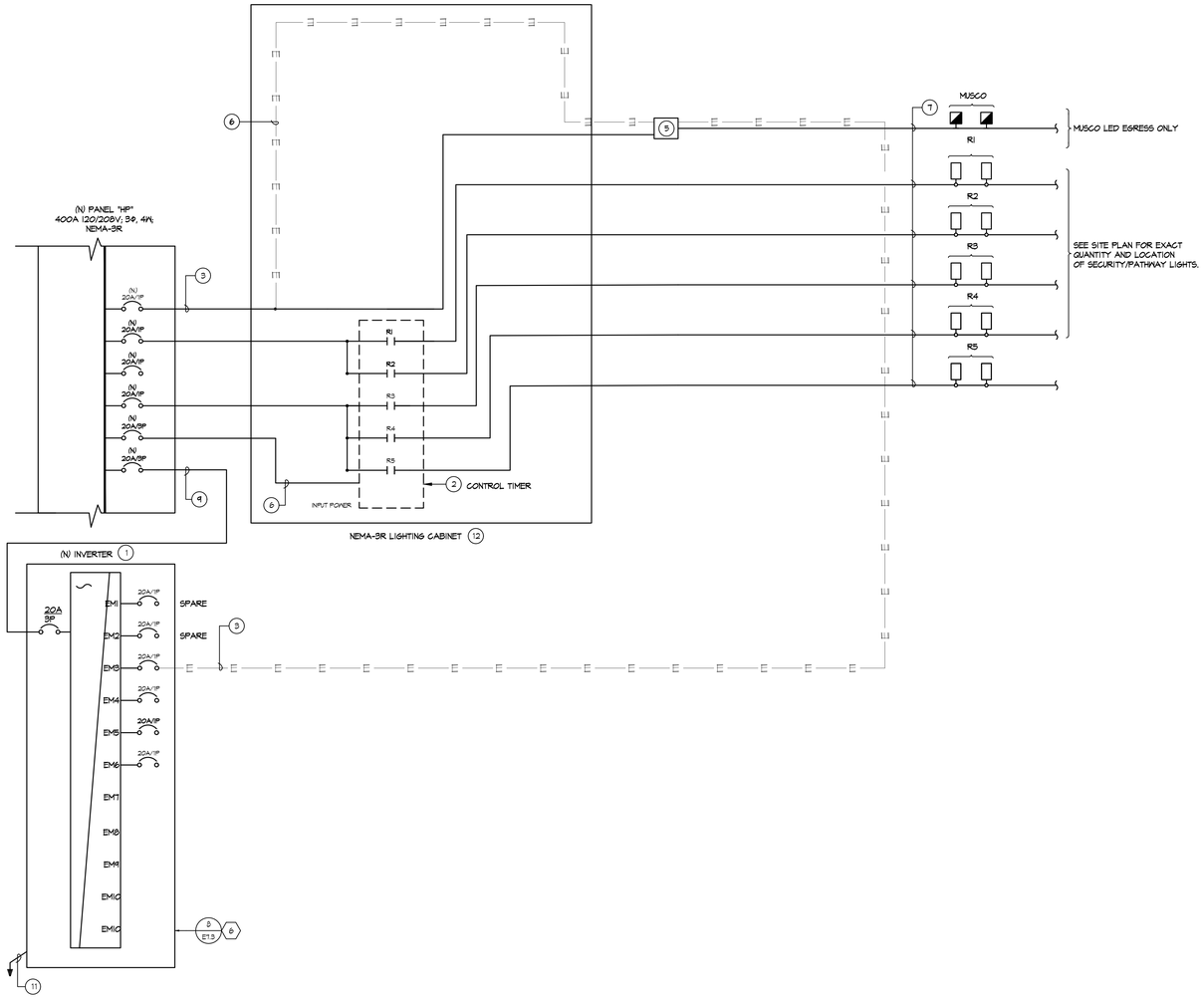
SHEET NO. E5.1

ELECTRICAL SINGLE LINE DIAGRAM



1 INVERTER AND LIGHTING RISER DIAGRAM

E6.1 NOT TO SCALE

NOTES:

1. PROVIDE MYERS ILLUMINATOR SERIES "DR," MODEL #4-DR-4-S-(BD2014)-F-S-H-2YW INVERTER OR EQUAL. PROVIDE ALL MATERIALS AS REQUIRED FOR A COMPLETE INSTALLATION.
2. PROVIDE "INTERMATIC" TIMER CONTROLLER #ET1125CR, 24 HOUR BASIC ELECTRONIC CONTROL WITH 24 HOUR, 7-DAY AND 7-DAY ASTRONOMIC TIME. CONTRACTOR TO COORDINATE WITH DISTRICT PROGRAMMING FOR TIMES OF OPERATION.
3. PROVIDE (2) #8 AND (1) #10 IN 1½"C. REFER TO SITE PLAN FOR CONDUIT SIZES AND BOX.
4. NOT USED
5. PROVIDE WATTSTOPPER ELCU-2000 - EMERGENCY LIGHT CONTROL UNIT(ELCU-200), PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION. INSTALL IN NEMA-3R LIGHTING CABINET.
6. PROVIDE MINIMUM (3)#12 IN ¾"C.
7. PROVIDE (2) #6 AND (1) #8 IN 1½"C. REFER TO LIGHTING SITE PLAN FOR CONDUIT REQUIREMENTS.
8. NOT USED
9. PROVIDE (3) #12 + (1) #12 CU GND IN 1"C. REFER TO SITE PLAN FOR CONDUIT SIZE.
10. NOT USED
11. SEE DETAIL 8/ET.3 FOR GROUNDING CABLE SIZE. SIZE PER CEC.
12. CONTRACTOR TO PROVIDE 24" X 16" X 6" NEMA-3R CABINET WITH HINGE TYPE DOOR WITH LOCKABLE HASP. OBTAIN PAD LOCK FROM OWNER TO SECURE. PROVIDE OUTDOOR ENGRAVED NAME PLATE AND IDENTIFY AS " EGRESS LIGHTING CABINET."

DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E6.1_Inverter Riser Diagram.dwg
PLOT DATE: 04-09-20 PLOTTED BY: sbuhay

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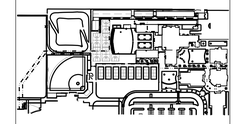

SHEET TITLE

INVERTER RISER DIAGRAM

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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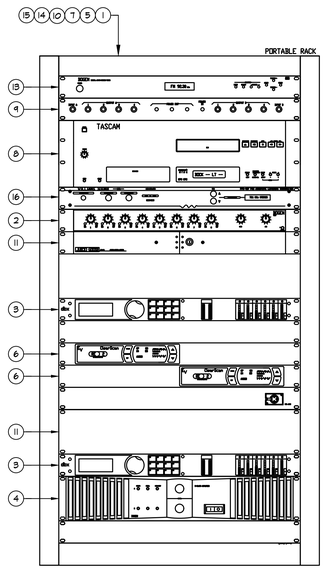
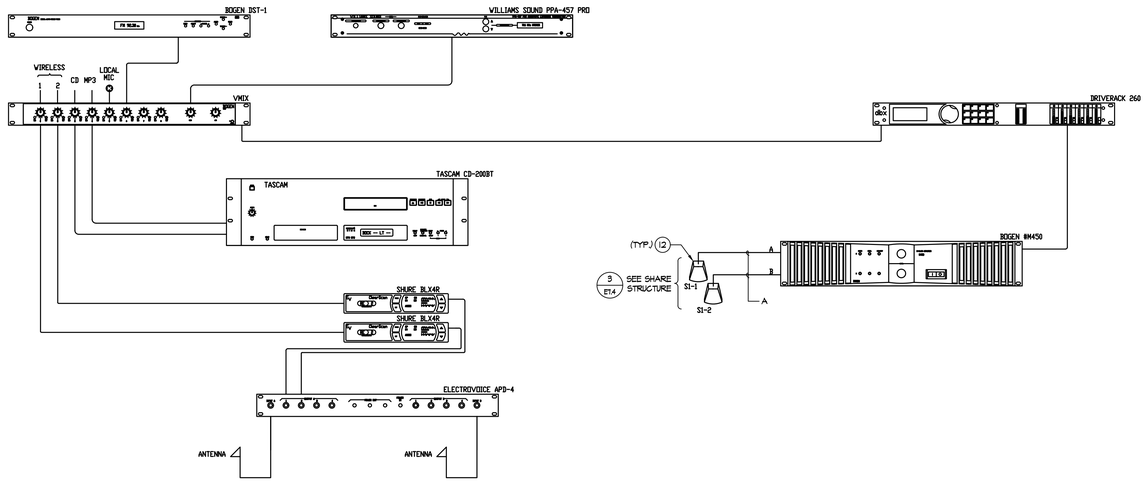
DATA RISER DIAGRAM



(N) PA SYSTEM FOR SWIMMING POOL



P.A. RISER DIAGRAM NOTES:

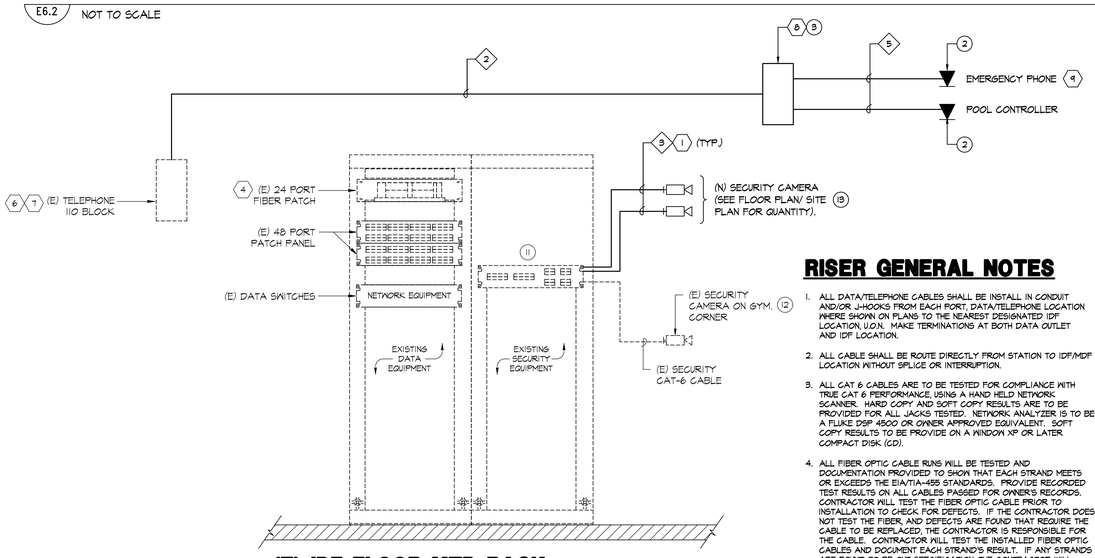
1. NEW PORTABLE RACK ODYSSEY FZAR16WL.
2. NEW BOGEN #VMIX MIXER, OR APPROVED EQUAL.
3. NEW dbx #DRIVERACK 260 EQUALIZER, OR APPROVED EQUAL.
4. NEW BOGEN #M450 AMPLIFIER, OR APPROVED EQUAL.
5. NEW BOGEN #DDU250 DESK MICROPHONE, QUANTITY (1), OR APPROVED EQUAL.
6. NEW SHURE #BLX4R WIRELESS MICROPHONE RECEIVER, OR APPROVED EQUAL.
7. NEW SHURE #SM58 HANDHELD WIRELESS MICROPHONE, QUANTITY (2), OR APPROVED EQUAL.
8. NEW TASCAM #CD-200BT CD/BLUETOOTH DECK, OR APPROVED EQUAL.
9. NEW SHURE WIRELESS MICROPHONE APLIFIER/ANTENNA SYSTEM, OR APPROVED EQUAL.
10. NEW MIDDLE ATLANTIC #PD-415R POWER STRIP, OR APPROVED EQUAL.
11. NEW MIDDLE ATLANTIC #UD-3 SLIDING DRAWER, OR APPROVED EQUAL.
12. NEW APOGEE #AH14-12ST WEATHER PROOF SPEAKER, QUANTITY (2), OR APPROVED EQUAL.
13. NEW BOSEN DST-1 RADIO TUNER DECK, OR APPROVED EQUAL.
14. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
15. PROVIDE QUANTITY OF CABLES AS REQUIRED BY THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND PROPERLY SIZING ALL CABLES PER THE PA SYSTEM MANUFACTURERS REQUIREMENTS.
16. ASSISTIVE LISTENING SYSTEM. SEE SPECS FOR REQUIREMENTS.

CABLE SCHEDULE:

A- WESTPENN #AQ246 (2 CONDUCTOR #12 AWG OUTDOOR RATED SPEAKER CABLE)

1 P.A. RISER DIAGRAM

E6.2 NOT TO SCALE



(E) IDF FLOOR MTD RACK IN (E) GYMNASIUM BUILDING

NOTE: CONTRACTOR TO FIELD VERIFY EXACT LOCATION.

RISER GENERAL NOTES

1. ALL DATA/TELEPHONE CABLES SHALL BE INSTALL IN CONDUIT AND/OR J-HOOKS FROM EACH PORT, DATA/TELEPHONE LOCATION WHERE SHOWN ON PLANS TO THE NEAREST DESIGNATED IDF LOCATION, U.O.N. MAKE TERMINATIONS AT BOTH DATA OUTLET AND IDF LOCATION.
2. ALL CABLE SHALL BE ROUTE DIRECTLY FROM STATION TO IDF/MDF LOCATION WITHOUT SPLICE OR INTERRUPTION.
3. ALL CAT 6 CABLES ARE TO BE TESTED FOR COMPLIANCE WITH TRUE CAT 6 PERFORMANCE, USING A HAND HELD NETWORK SCANNER. HARD COPY AND SOFT COPY RESULTS ARE TO BE PROVIDED FOR ALL JACKS TESTED. NETWORK ANALYZER IS TO BE A FLUKE DSP 4500 OR OWNER APPROVED EQUIVALENT. SOFT COPY RESULTS TO BE PROVIDE ON A WINDOW XP OR LATER COMPACT DISK (CD).
4. ALL FIBER OPTIC CABLE RUNS WILL BE TESTED AND DOCUMENTATION PROVIDED TO SHOW THAT EACH STRAND MEETS OR EXCEEDS THE EIA/TIA-455 STANDARDS. PROVIDE RECORDED TEST RESULTS ON ALL CABLES PASSED FOR OWNER'S RECORDS. CONTRACTOR WILL TEST THE FIBER OPTIC CABLE PRIOR TO INSTALLATION TO CHECK FOR DEFECTS. IF THE CONTRACTOR DOES NOT TEST THE FIBER, AND DEFECTS ARE FOUND THAT REQUIRE THE CABLE TO BE REPLACED, THE CONTRACTOR IS RESPONSIBLE FOR THE CABLE. CONTRACTOR WILL TEST THE INSTALLED FIBER OPTIC CABLES AND DOCUMENT EACH STRAND'S RESULT. IF ANY STRANDS ARE FOUND TO BE OUT SPECIFICATION, THE CONTRACTOR WILL REPAIR THE STRANDS TERMINATION AS NEEDED OR REPLACE CABLE IF REQUIRED. THE CONTRACTOR WILL RETEST AFTER REPAIRS.
5. SEE DATA/TELEPHONE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

RISER NOTES:

1. ROUTE CABLE DIRECTLY FROM (E) SECURITY RACK TO (N) CAMERA LOCATION TO IDF LOCATION WITHOUT SPLICE OR INTERRUPTION.
2. MAKE TERMINATIONS AT THE FIBER OPTIC PATCH PANEL. LEAVE 15' OF EXCESS FIBER OPTIC CABLE AT BOTH IDF LOCATIONS BEFORE MAKING TERMINATIONS FOR USE AS A SERVICE LOOP. SECURE EXCESS CABLE IN A NEAT WORKMANLIKE MANNER. ALL TERMINATED FIBER OPTIC CABLES WILL BE INSTALLED INTO FIBER PANEL.
3. PROVIDE NEW PATCH PANEL. QUANTITY AS REQUIRED TO TERMINATE ALL DATA/TELEPHONE OUTLETS + 10% SPARE. PATCH PANELS SHALL BE 48 PORTS PANEL.
4. (E) FIBER PORT HAS FIBER STRANDS AVAILABLE.
5. PROVIDE 4-GANG DOUBLE DUPLEX "LEVITON" COMMERCIAL GRADE 20A DEDICATED, 20V BRANCH CIRCUIT. INSTALL IN (N) IDF. PROVIDE (2)#12 + (1)#12 GU GND - ¾"C, ROUTE CONCEALED IN CEILINGS/WALL AND CONNECT TO MODULAR BLDG PANEL. PROVIDE 20A/1P BREAKER IN MODULAR PANEL AND CONNECT AS REQUIRED. PROVIDE AND UPDATE PANEL DIRECTORY.
6. PROVIDE/ ACTIVATE (2) DEDICATED PHONE LINES FOR (N) POOL EMERGENCY PHONE & POOL CONTROLLER. SEE FLOOR PLAN DRAWINGS FOR REQUIREMENTS.
7. PROVIDE ADDITIONAL 66 BLOCK AS REQUIRED TO ADD (N) LINES. PROVIDE AND COORDINATE WITH DISTRICT FOR ADDITIONAL PHONE LINES AND PROVIDE CROSS CONNECTIONS AS NEEDED TO COMPLETE SERVICE LINES.
8. (N) NEMA 3R SIGNAL CAN AT POOL BUILDING. PROVIDE TERMINAL BLOCKS AS REQUIRED TO TERMINATE FIELD DEVICES. LABEL PULL CAN "TELEPHONE".
9. PROVIDE STANDARD POOL PHONE WITH TOUCH TONE DIALER. PROVIDE DIRECTORY FOR EMERSENCY LINE.

CABLE SCHEDULE:

1. FIBER OPTIC - (12) STRAND INDOOR/OUTDOOR SINGLE-MODE OSI FIBER (BERK-TEK, CORNING OR EQUAL) CONNECTOR - SC
2. TELEPHONE - 25 PAIR, CATEGORY 5, OUTDOOR RATED CABLE FOR TELEPHONE INFRASTRUCTURE.
3. DATA - CAT-6 (BLUE WITH BLACK LETTERING)
4. FIBER OPTIC - (4) STRAND INDOOR/OUTDOOR MULTI-MODE OSI FIBER (BERK-TEK, CORNING OR EQUAL) CONNECTOR - SC
5. TELEPHONE - CAT-6 (GREY WITH BLACK LETTERING)

EQUIPMENT SCHEDULE:

1. DATA JACK - CATEGORY 6 RATED - PANDUIT OR EQUAL. (DATA JACK COLOR SHALL BE BLUE AT BOTH ENDS, JACK AND PATCH PANEL)
2. TELEPHONE JACK - CATEGORY 6 RATED - PANDUIT OR EQUAL. (TELEPHONE JACK COLOR SHALL BE GREY AT BOTH ENDS, JACK AND PATCH PANEL)
3. 66-BLOCK.
4. HORIZONTAL WIRE MANAGER MODULE, TYPICAL.
5. NETWORK SWITCH - PROVIDED AND INSTALLED BY DISTRICT.
6. CAT 6 PATCH PANEL - PANDUIT #CPP48WBL OR EQUAL.
7. FIBER OPTIC PATCH PANEL - PANDUIT FMD24SCMP WITH (2) FAP6WSC AND (2) FAPB BLANK INSERTS OR EQUAL.
8. WALL MOUNT IDF CABINET - CHATSWORTH #1900-T24.
9. CAT 6 PATCH PANEL - PANDUIT #CPP24WBL OR EQUAL.
10. WALL MOUNTED LOW PROFILE IDF CABINET - HUBBELL.

SECURITY CAMERA EQUIPMENT

11. PROVIDE SECURITY "AVIGNON" AMPLIFIER TO BOOST SIGNAL.
12. (E) CAMERA TO BE REPLACED.
13. (N) CAMERA "AVIGNON" 32C-H4A-4M1-360.

2 TYPICAL INTRUSION ALARM RISER DIAGRAM

E6.2 NOT TO SCALE

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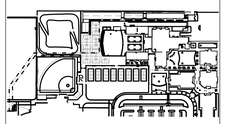
KEYMAP



SHEET TITLE

PA/ SPEAKER AND DATA RISER DIAGRAM

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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5		
6		

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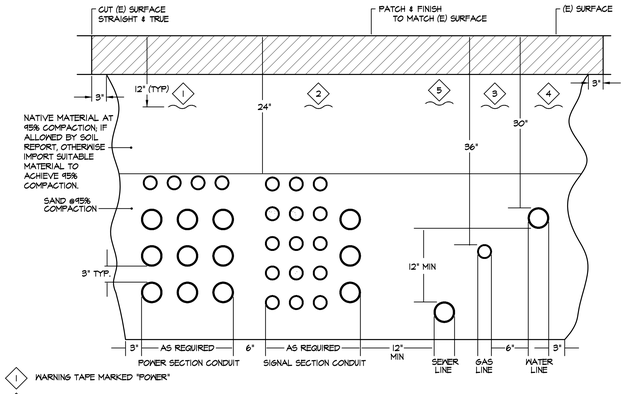
MG	SF
DATE ISSUED: 03/13/2020	SCALE
PROJ. NO.: 1910900-1211	
SHEET NO.: E6.2	



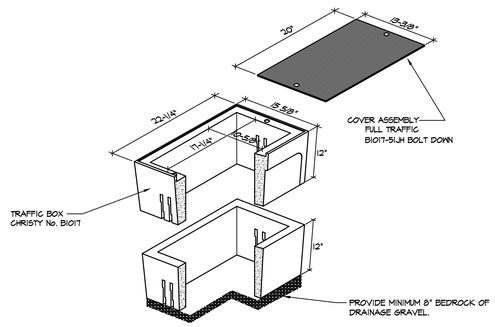
1. WARNING TAPE MARKED "POWER"
2. WARNING TAPE MARKED "SIGNAL"
3. WARNING TAPE MARKED "GAS"
4. WARNING TAPE MARKED "WATER"
5. WARNING TAPE MARKED "SEWER"

NOTES:

1. ALL ELECTRICAL TRENCH WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
2. MINIMUM SPACING BETWEEN CONDUITS IS 3".
3. SEE SITE/FLOOR PLANS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

1 TYPICAL JOINT TRENCH & DUCT BANK DETAIL

E7.1 NOT TO SCALE

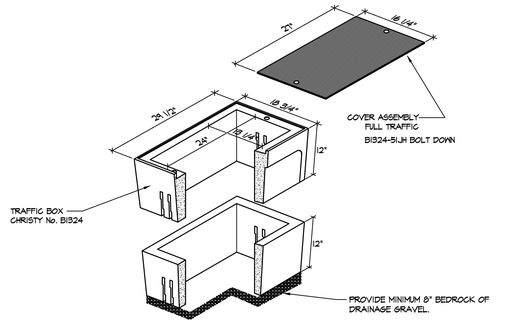


NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

2 B1017 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)



NOTES:

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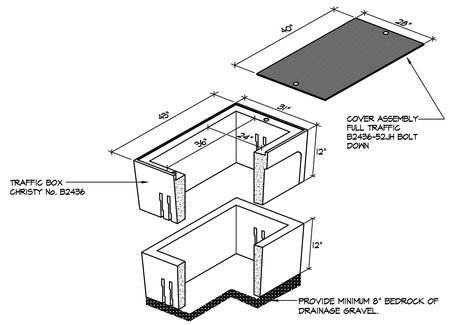
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

3 B1324 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

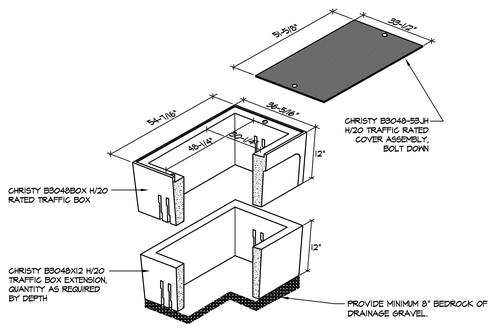


NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

4 B2436 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
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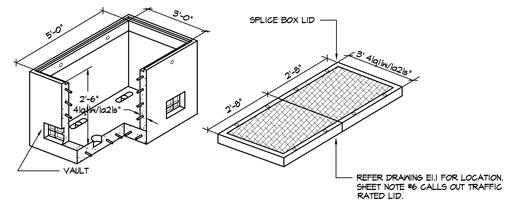
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

5 B3048 TRAFFIC BOX DETAIL

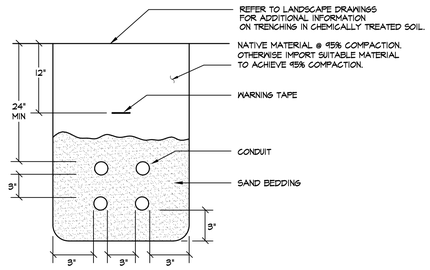
E7.1 NOT TO SCALE (FULL TRAFFIC COVER)



A HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS MADE IN CONFORMANCE WITH P G & E REQUIREMENTS.

6 3' X 5' ELECTRICAL VAULT

E7.1 NOT TO SCALE



7 TYPICAL TRENCH DETAIL

E7.1 NOT TO SCALE

DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E7.1_Electrical Details.dwg
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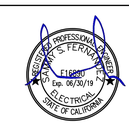

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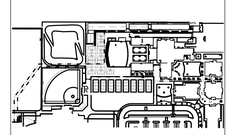

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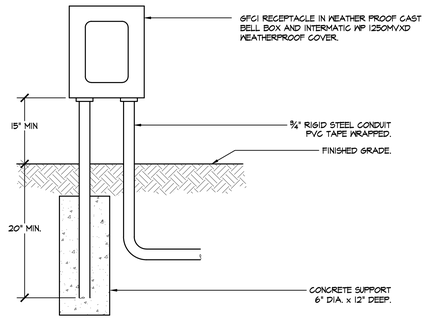
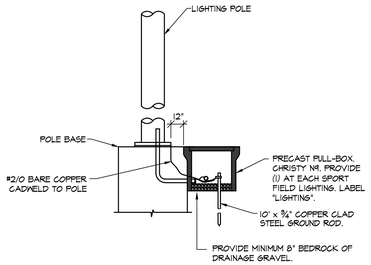


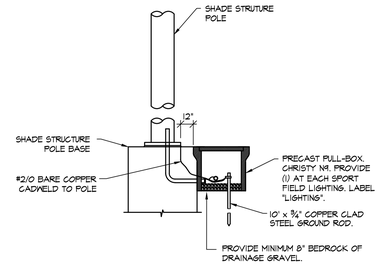
1 RECEPTACLE PEDESTAL DETAIL

E7.2 NOT TO SCALE



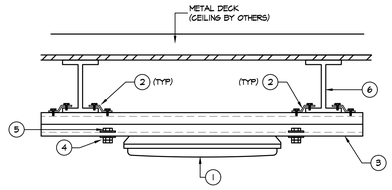
2 TYPICAL POLE BASE GROUNDING DETAIL

E7.2 NOT TO SCALE



3 TYPICAL SHADE STRUCTURE POLE BASE GROUNDING DETAIL

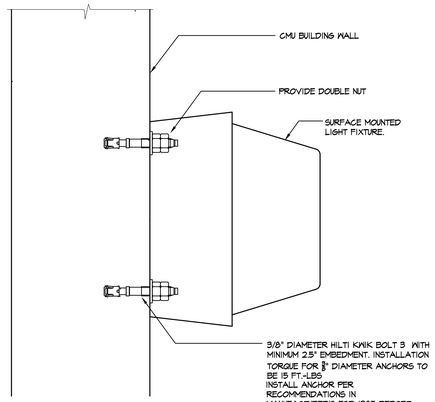
E7.2 NOT TO SCALE



1. PROVIDE 4' LED LIGHT FIXTURE MAX. WEIGHT 25.5 LBS.
2. FASTEN (N) P1001 UNISTRUT TO BEAM. CLAMP AT EACH SIDE. (N) P1379S CLAMP WITH ½" X I ⅜" HEX HEAD CAP SCREW AND ½" CHANNEL NUT EACH SIDE OF BEAM.
3. (N) P1001 UNISTRUT. LENGTH AS REQUIRED.
4. DOUBLE NUT AND WASHER.
5. NUT AND LOCKING WASHER INSIDE THE UNISTRUT.
6. WIDE FLANGE I-BEAM BY OTHERS.

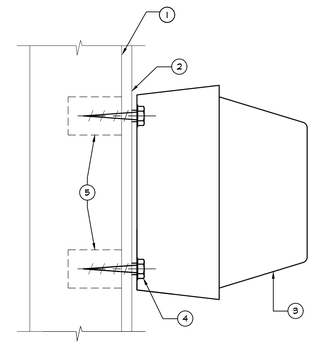
4 SURFACE MOUNTED FIXTURE (POOL BUILDING)

E7.2 NOT TO SCALE



5 SURFACE MOUNT WALL LIGHT FIXTURE - CMU

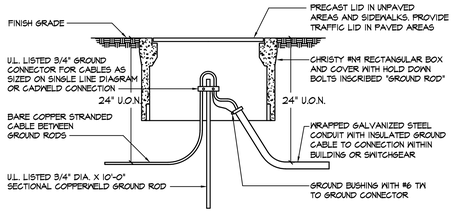
E7.2 NOT TO SCALE



1. BUILDING STUDS.
2. FOR BUILDING WALL CONSTRUCTION SEE ARCHITECTURAL DRAWINGS.
3. SURFACE MOUNTED FIXTURE.
4. (4) #10 WOOD SCREWS WITH FLAT WASHER. (4) PER FIXTURE PENETRATE 2" INTO BLOCKING.
5. BLOCKING 2 x 4, PROVIDE 16d STRONG HOLD NAILS TO FASTEN BLOCKING TO BUILDING STUDS OR JOIST. (4) AT EACH END. (TYP.)

6 SURFACE MOUNT WALL LIGHT FIXTURE - WOOD

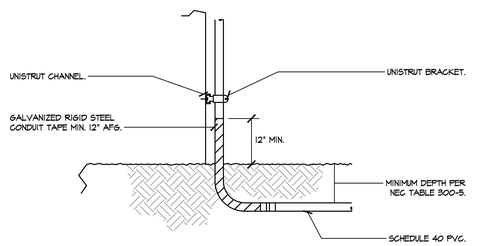
E7.2 NOT TO SCALE



NOTE:
SEE SINGLE LINE DIAGRAM AND FLOOR PLANS FOR SIZE OF CONDUCTORS AND ARRANGEMENT OF GROUNDING SYSTEM

7 GROUND ROD INSPECTION WELL

E7.2 NOT TO SCALE

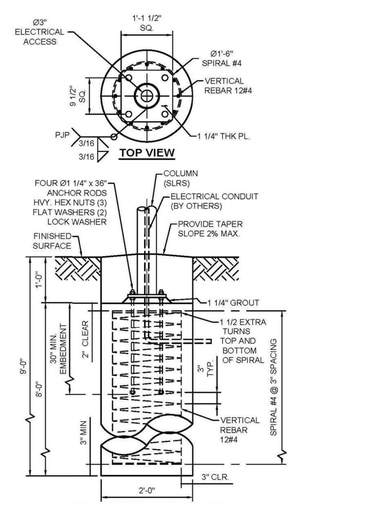


NOTE:

1. FOR WOOD STUD WALL: USE 1231W/1A815"Φ LAG BOLT WITH MIN. 1631W/1A415" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
2. FOR CONCRETE WALL: 1211W/1A315"Φ HILTI KWIK-BOLT TZ STAINLESS STEEL ANCHOR (ICC ESR-1917) WITH MINIMUM EMBEDMENT OF 3-1251W/1A815" IN 4" DEEP HOLE. 1211W/1A215"Φ ANCHORS SHALL BE TORQUE-TESTED TO 40 FT-LBS, WHICH MUST BE ATTAINED WITHIN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. INSTALL ANCHOR PER CBC, HSAJT AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL OF (4) PER SECTION)

8 UNDERGROUND CONDUIT RISER DETAIL

E7.2 NOT TO SCALE



9 CONDUIT IN CONCRETE FOOTING DETAIL

E7.2 NOT TO SCALE

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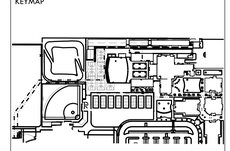

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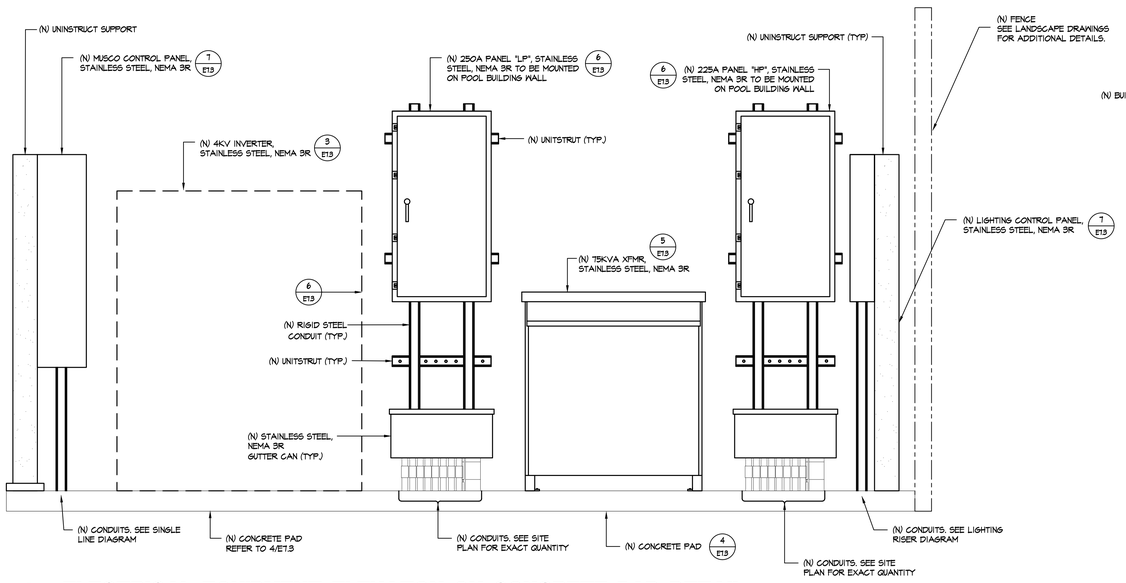
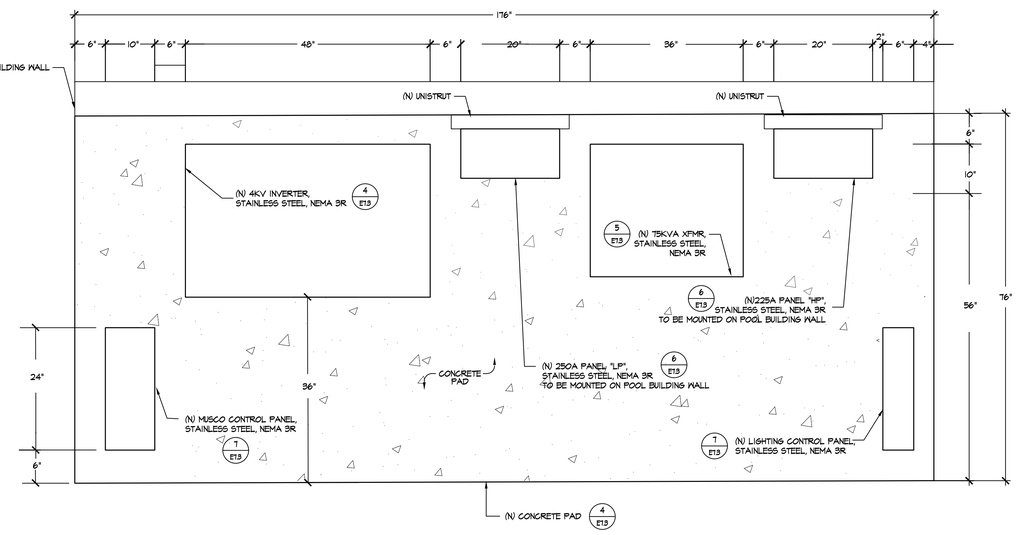


1 ELECTRICAL EQUIPMENT ELEVATON ON CONCRETE PAD DETAIL

E7.3 NOT TO SCALE



2 ELECTRICAL EQUIPMENT LAYOUT ON CONCRETE PAD DETAIL

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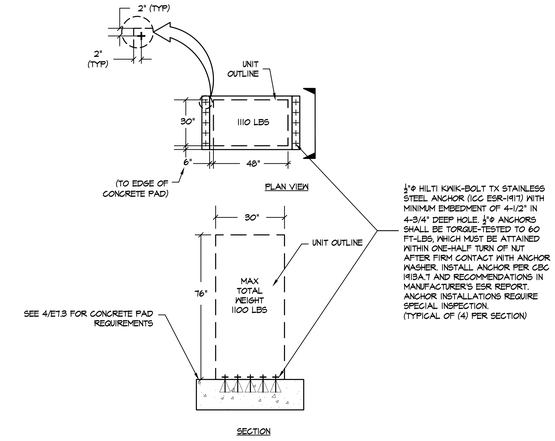
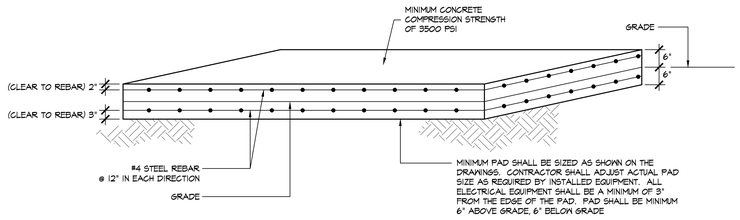


½"ø HILTI KWIK-BOLT TX STAINLESS STEEL ANCHOR (ICC ESR-1917) WITH MINIMUM EMBEDMENT OF 4-1/2" IN 4-3/4" DEEP HOLE. ½"ø ANCHORS SHALL BE TORQUE-TESTED TO 60 FT-LBS, WHICH MUST BE ATTAINED WITHIN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. INSTALL ANCHOR PER CBC 1918A.7 AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL OF (4) PER SECTION)

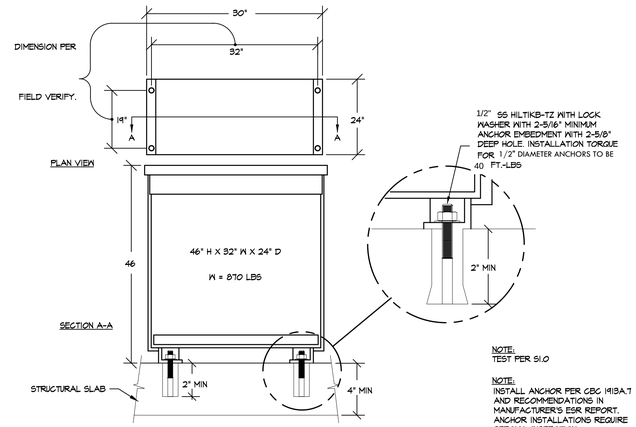
3 INVERTER ENCLOSURE ANCHORAGE DETAILS

E7.3 NOT TO SCALE



4 CONCRETE ELECTRICAL EQUIPMENT PAD

E7.3 NOT TO SCALE



NOTE:
TEST PER 5I.O

NOTE:
INSTALL ANCHOR PER CBC 1918A.7 AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL OF (4) PER SECTION)

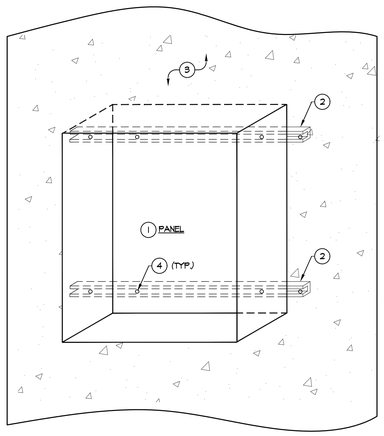
5 DISTRIBUTION TRANSFORMER INSTALLATION DETAIL

E7.3 SCALE: NOT TO SCALE

INVERTER ENCLOSURE	
TOTAL WEIGHT OF INVERTER ENCLOSURE	2,875 LBS

NOTE:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-66.
2. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AS REQUIRED. (NEC 250-56)
3. OUTDOOR TYPE INVERTER ENCLOSURE

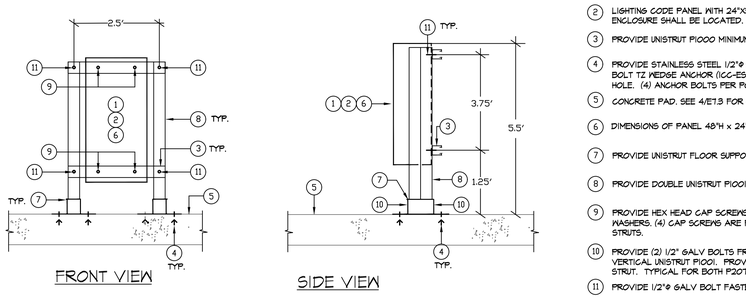


NOTE:
INSTALL ANCHOR PER RECOMMENDATIONS IN MANUFACTURER'S ESR-1385 REPORT. INSTALLATION TORQUE FOR ⅜" DIAMETER ANCHORS TO BE 15 FT.-LBS

1. (N) DISTRIBUTION PANEL 24"W X 42H X 10"D. (MAX WEIGHT 250 LBS)
2. (N) UNISTRUT CHANNEL 1 ⅝" x 1 ⅝", ATTACHED TO (N) CMU WITH ⅝"ø HILTI KWIK BOLT TZ WITH 3" EMBEDMENT INTO (N) CMU WALL. PROVIDE (4) PER CHANNEL.
3. (N) CMU WALL.
4. PROVIDE HEX HEAD CAP SCREWS 3/8"x2" WITH HEX NUTS AND WASHERS. (4) CAP SCREWS ARE FOR ATTACHMENT OF PANEL TO REAR STRUTS.

6 PANEL INSTALLATION - CMU WALL

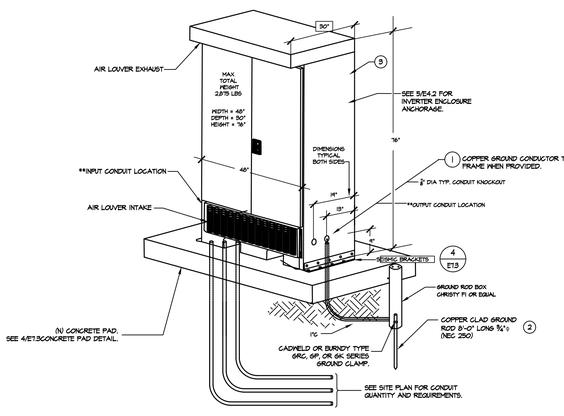
E7.3 NOT TO SCALE



7 MUSCO CONTROL & LIGHT CONTROL PANEL INSTALLATION ON UNISTRUT DETAIL

E7.3 NOT TO SCALE

1. MUSCO CONTROL PANEL **(MAX WEIGHT : 200 LBS.)**
2. LIGHTING CODE PANEL WITH 24"X30"X8" NEMA 3R ENCLOSURE. ENCLOSURE SHALL BE LOCATED.
3. PROVIDE UNISTRUT P1000 MINIMUM 12 GA GALV STEEL.
4. PROVIDE STAINLESS STEEL 1/2"ø x 2-3/8" MINIMUM EMBEDMENT KWIK BOLT TZ WEDGE ANCHOR (ICC-ES-ESR 1917), IN MINIMUM 2-5/8" DEEP HOLE. (4) ANCHOR BOLTS PER POST BASE.
5. CONCRETE PAD. SEE 4/E7.3 FOR ADDITIONAL INFORMATION.
6. DIMENSIONS OF PANEL 48"H x 24"W x 10"D
7. PROVIDE UNISTRUT FLOOR SUPPORT P2073A POST BASE.
8. PROVIDE DOUBLE UNISTRUT P1001 HS MINIMUM 12 GA GALV STEEL.
9. PROVIDE HEX HEAD CAP SCREWS 3/8"x2" WITH HEX NUTS AND WASHERS. (4) CAP SCREWS ARE FOR ATTACHMENT OF PANEL TO REAR STRUTS.
10. PROVIDE (2) 1/2" GALV BOLTS FROM P2073A POST BASE INTO VERTICAL UNISTRUT P1001. PROVIDE EACH BOLT WITH P1010 NUT INSIDE STRUT. TYPICAL FOR BOTH P2073A POST BASE.
11. PROVIDE 1/2"ø GALV BOLT FASTENERS AT EACH INTERSECTION.



8 TYPICAL INVERTER ENCLOSURE DETAILS

E7.3 NOT TO SCALE

DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E7.3_Electrical Details.dwg
PLOT DATE: 04-09-20 PLOTTED BY: sbuhay

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
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REGISTERED PROFESSIONAL ENGINEER STEPHEN S. FERTANIS E16890 Exp. 06/30/19 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # E19146.00
408/236-2312
Fax: 408/236-2316

KEYMAP

SHEET TITLE

ELECTRICAL DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

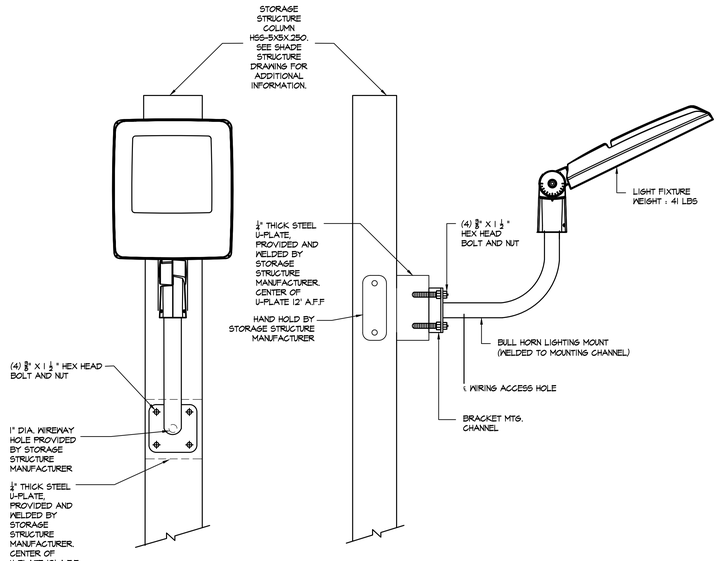
PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

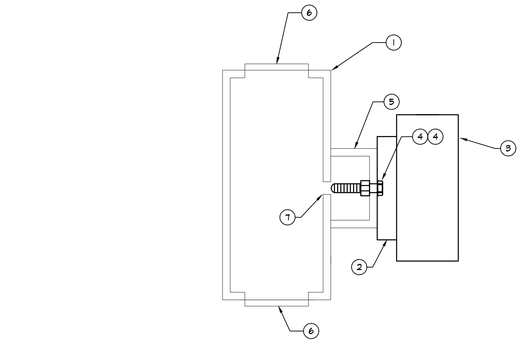
NO.	REVISIONS	DATE

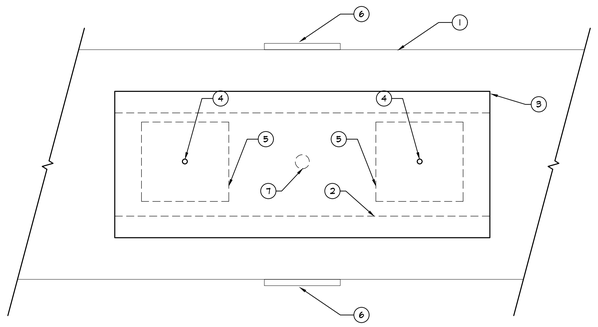
DRAWN BY	CHECKED BY
MG	SF
DATE ISSUED: 03/13/2020	SCALE
PROJ. NO.: 1910900-1211	
SHEET NO.: E7.3	



1 STORAGE STRUCTURE FIXTURE MOUNTING DETAIL

E7.4 NOT TO SCALE

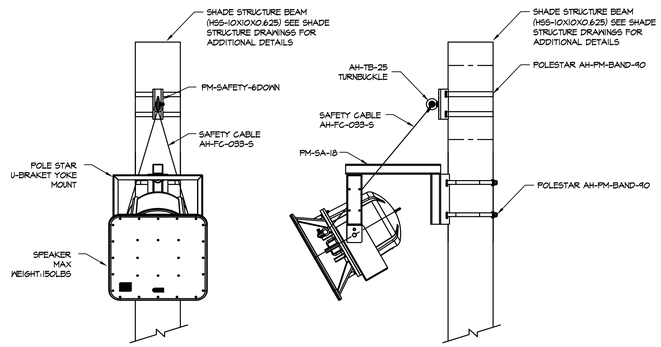




1. SHADE STRUCTURE BEAM (HSS-10X6X0.375). SEE SHADE STRUCTURE DRAWINGS FOR ADDITIONAL INFORMATION
2. FIXTURE MOUNTING PLATE
3. SURFACE MOUNTED FIXTURE. WEIGHT 27.5 LBS
4. ½" DIAMETER GALVANIZED MACHINE BOLTS WITH NUT
5. ¼" THICK, STEEL U-PLATE WELDED AND PROVIDED BY SHADE STRUCTURE MANUFACTURER. U-PLATE SHALL BE 14" OFF CENTER FROM THE HORIZONTAL CENTER OF THE BEAM.
6. HAND HOLE PROVIDED BY SHADE STRUCTURE MANUFACTURER. LOCATION OF HAND HOLE SHALL BE AT THE HORIZONTAL CENTER OF BEAM
7. 1" DIA. HOLE FOR ELECTRICAL WIRING, BY SHADE STRUCTURE MANUFACTURER. LOCATION OF 1" HOLE SHALL BE AT THE HORIZONTAL CENTER OF BEAM.

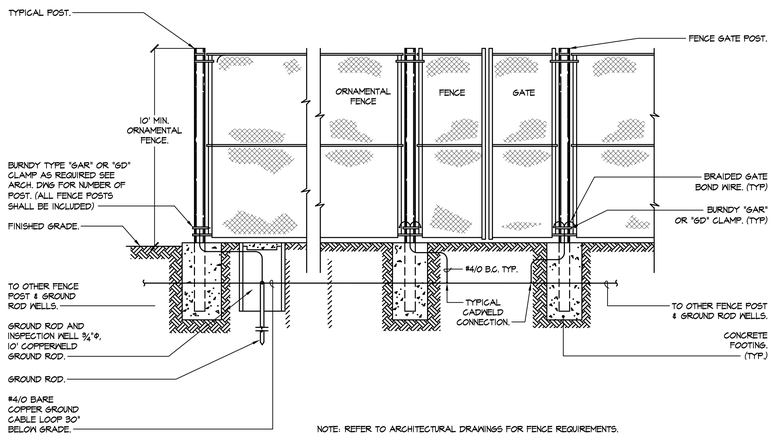
2 SURFACE MOUNT WALL OR CEILING LIGHT FIXTURE

7.4 NOT TO SCALE



3 POLE MOUNTED SPEAKER DETAIL

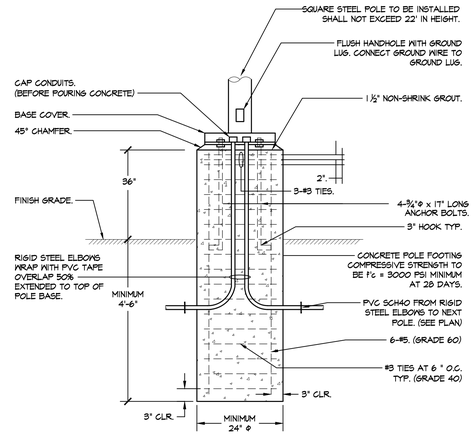
E7.4 NOT TO SCALE



NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR FENCE REQUIREMENTS.

4 ORNAMENTAL FENCE GROUNDING DETAIL

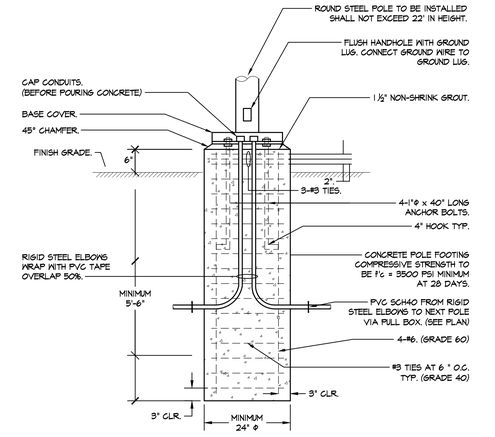
E7.4 NOT TO SCALE



NOTE: EXEMPT FROM DSA REVIEW PER DSA IR-22

5 TYPICAL RAISED POLE BASE DETAIL - 15' POLE

E7.4 N.T.S. (NOT PART OF DSA STRUCTURAL REVIEW)



NOTE: EXEMPT FROM DSA REVIEW PER DSA IR-22

6 TYPICAL FLUSH POLE BASE DETAIL - 15' POLE

E7.4 N.T.S. (NOT PART OF DSA STRUCTURAL REVIEW)

DRAWING NAME: \\ACEEDC2\projects\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\SWIMMING POOL\E7.4_Electrical Details.dwg
PLOT DATE: 04-09-20 PLOTTED BY: stauhoy

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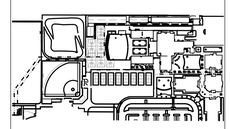

SHEET TITLE

ELECTRICAL DETAILS

PROJECT NAME

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STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

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DD SUBMITTAL	10/25/19
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1		
2		
3		
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5		
6		

DRAWN BY	CHECKED BY
MG	SF
DATE ISSUED: 03/13/2020	SCALE:

PROJ. NO. 1910900-1211

SHEET NO. E7.4

DSA GENERAL NOTES

THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.

ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2016.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

COMPONENT ANCHORAGE NOTES

ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (EG HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4'-0" OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE EQUIPMENT.
2. 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH 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 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25, AND 1616A.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., SMACNA OR OSHPD OPM), 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 THE APPLICABLE OSHPD PRE-APPROVAL (OPM:)
OPM-0043-13, "MASON WEST, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS' OR
OPM-0052-13, "B-LINE/TOLCO SEISMIC RESTRAINT SYSTEMS GUIDELINES'

MP☐ MD☐ PP☐ E☐ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION , ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL_____ AND CONNECTION LEVEL_____ FOR THE PROJECT CONDITIONS.

GENERAL NOTES

PRE-BID SITE VISIT
CONTRACTOR SHALL VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR MAY CONTACT THE ENGINEER DURING THE BIDDING PHASE REGARDING CLARIFICATIONS AND PROJECT REQUIREMENTS. ASBESTOS ABATEMENT IS NOT PART OF THE SCOPE.

SAFETY
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

DAMAGE TO STRUCTURE OR SYSTEM TO REMAIN
CONTRACTOR SHALL REIMBURSE THE OWNER FOR REPAIR AND REPLACEMENT, INCLUDING ENGINEER'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES, LANDSCAPE, SITE WORK, OR EXISTING SYSTEMS TO REMAIN, AS THE RESULT OF CONSTRUCTION OPERATIONS.

EXISTING CONDITIONS
ALL EXISTING CONDITIONS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND BUILDING DATA AT THE JOB SITE. ANY DISCREPANCIES REQUIRING MODIFICATION TO THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

CONTRACTOR'S EQUIPMENT
COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES.

UTILITY SHUT-DOWNS AND CONNECTIONS
ALL REQUIRED UTILITY SHUT DOWNS SHALL HAVE PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE. REQUEST SHALL BE SUBMITTED WITH ADEQUATE ADVANCE NOTICE PER PROJECT REQUIREMENTS.

ASBESTOS AND ASBESTOS PRODUCTS
THE OWNER/OPERATOR AND CONTRACTOR SHALL BE AWARE THAT BUILDINGS CONSTRUCTED PRIOR TO 1978 (OR THERE ABOUT) POSSIBILITY CONTAIN ASBESTOS IN SOME EXISTING CONSTRUCTION MATERIALS, AND WILL LIKELY BE ENCOUNTERED DURING ALTERATIONS OR REMODELING.

UNDER CALIFORNIA TITLE 8, THE OWNER AND CONTRACTOR BOTH HAVE RESPONSIBILITIES TO DETERMINE THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IN AREAS TO BE ALTERED OR REMODELED PRIOR TO COMMENCEMENT OF WORK AND TO TAKE APPROPRIATE MEASURES TO PROTECT PERSONNEL. CAL-OSHA HAS JURISDICTION OVER ASBESTOS RELATED WORK. ASBESTOS RELATED WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA GENERAL INDUSTRIAL SAFETY ORDERS, TITLE 8, SECTION 341.6 THROUGH 341.14. ASBESTOS IN THE WORK ENVIRONMENT IS REGULATED BY TITLE 8, SECTION 5208.

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE
THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN, DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR

CONSTRUCTION SCHEDULING
CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.

TITLE 24 COMPLIANCE
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2016 CBC). SHOULD ANY EXISTING CONDITIONS BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH 2016 CBC, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.

DRILLED-IN EXPANSION ANCHORS
WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

LIST OF GOVERNING CODES

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2016 NFPA 13 AS AMENDED
2016 NFPA 54 AS AMENDED.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
1. ADDENDA, CONSTRUCTION CHANGE DOCUMENTS PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECT. 4-335.
4. SPECIAL INSPECTION PER SECT. 4-333(c).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECT. 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECT. 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECT. 4-331.
10. SUPERVISION BY THE DIVISION OF STATE ARCHITECTS PER SECT. 4-334.

PLUMBING LEGEND

SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
	CW	COLD WATER (DOMESTIC)	ARCH	ARCHITECT/ARCHITECTURAL
	HW	HOT WATER	BLDG	BUILDING
	HWR	HOT WATER RETURN	BTU	BRITISH THERMAL UNIT
	V	VENT	CFH	CUBIC FEET PER HOUR
TP	TP	TRAP PRIMER LINE	CONN	CONNECTION
W	S OR W	SOIL OR WASTE ABOVE GRADE	DF	DRINKING FOUNTAIN
W	S OR W	SOIL OR WASTE BELOW GRADE	DN	DOWN
RWL	RWL	RAIN WATER LEADER	DWGS	DRAWINGS
OD	OD	OVERFLOW DRAIN	(E)	EXISTING
CD	CD	CONDENSATE DRAIN	EQUIP	EQUIPMENT
		CAP	EXT	EXTERIOR
	CONT	CONTINUATION	FD	FLOOR DRAIN
	SOV	SHUT-OFF VALVE	FFE	FINISHED FLOOR ELEVATION
		BALL VALVE	FS	FLOOR SINK
	GPR	GAS PRESSURE REGULATOR	IE	INVERT ELEVATION
		UNION	INV	INVERT
	P.O.C.	POINT OF CONNECTION	MBH	1000 BTU PER HOUR
		CIRCULATION PUMP (DOMESTIC)	(N)	NEW
OR		GATE VALVE	NTS	NOT TO SCALE
			PRV	PRESSURE REDUCING VALVE
	WHA	WATER HAMMER ARRESTOR	P/T	PRESSURE/TEMPERATURE
	HB	HOSE BIBB	RPM	REVOLUTIONS PER MINUTE
	T&PRV	TEMP. & PRESS. RELIEF VALVE	RV	RELIEF VALVE
			SOV	SHUT-OFF VALVE
OR		ANGLE VALVE	SPEC	SPECIFICATION
			SQ	SQUARE
	CKV	CHECK VALVE	TYP	TYPICAL
			UON	UNLESS OTHERWISE NOTED
OR	GC	GAS COCK	VTR	VENT THROUGH ROOF
			W/	WITH
	GCO/FCO	GRADE CLEAN-OUT/FLOOR CLEAN-OUT	WH	WATER HEATER
	WCO	WALL CLEAN-OUT		
		THERMOMETER		

EXHAUST FANS

UNIT TAG	FAN				MOTOR			CONTROLS BY	WT LBS	MAKE & MODEL	REMARKS
	CFM	ESP	RPM	SONES	HP	BHP	V/PH				
EF-1	500	0.20	1550	4.4	1/30	.02	115/1	LIGHT SW	26	GREENHECK G-090-VG	1,2,3,4
EF-1	500	0.20	1550	4.4	1/30	.02	115/1	LIGHT SW	26	GREENHECK G-090-VG	1,2,3,4

1. PROVIDE BACK DRAFT DAMPER & MANUFACTURER PREFABRICATED ROOF CURB.
2. PROVIDE SPEED CONTROLLER, MANUAL STARTERS & WEATHERPROOF DISCONNECT SWITCHES.
3. PROVIDE "ON/OFF" SWITCH OUTSIDE THE ENTRANCE DOOR
4. SEE 4/MP6.0 FOR ROOF INSTALLATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

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CIVIL ENGINEERING
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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STEVEN I. ISHII
No. 33114
EXP. JUNE 30, 2021
MECHANICAL
STATE OF CALIFORNIA

03/11/2020

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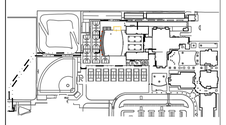
KEYMAP



SCHEDULES, LEGENDS, AND SPECS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
	SI
DATE ISSUED: 03/13/2020	SCALE: AS NOTED
PROJ. NO.: 1910900-1211	
SHEET NO.: MP0.1	

SCHEDULES, LEGENDS & SPECS

DRAWING NAME: G:\Shared drives\HVAC\ACE Projects\19099 - Cesar Chavez HS Pool Proj\Drawings\Cesar_Chavez Dwg.dwg
PLOT DATE: 03-12-20 PLOTTED BY: Julie

SEE MP2.0

ELECTRICAL EQUIPMENT ROOM ENTRY

ELECTRICAL EQUIPMENT ROOM ENTRY

5"MPG (E)

5"MPG (E)

5"MPG (E)

5"MPG (E)

5"MPG (E)

5"MPG (E)

(E) 1½"MPG

3"MPG

SEE 3.MP6.0 FOR THE PIPE TRENCH DETAIL

3"MPG

3"MPG (E)

3"MPG (E)

3"MPG (E)

(E) 4"MPG

P.O.C. TO EXISTING 4" GAS LINE. INSTALL WITH SHUT-OFF VALVE

(E) 2½"MPG

(E) 2"MPG

(E) 4"MPG

(E) 4"MPG

GATE

GATE

GATE

GATE

H

G

C

E

A

B

D

F

PROJECT NORTH

NORTH

1 MP1.0 SITE PLAN - GAS PIPING

SCALE: 1" = 30'-0"

EXISTING PG&E CONNECTION AND GAS METER VALVE TRIM

DRAWING NAME: G:\Shared drives\HVAC\ACE Projects\19099 - Cesar Chavez HS Pool Pro\Drawings\Cesar_Chavez Dwg.dwg
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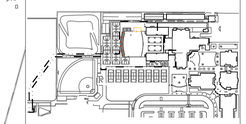
KEYMAP



PLUMBING SITE PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
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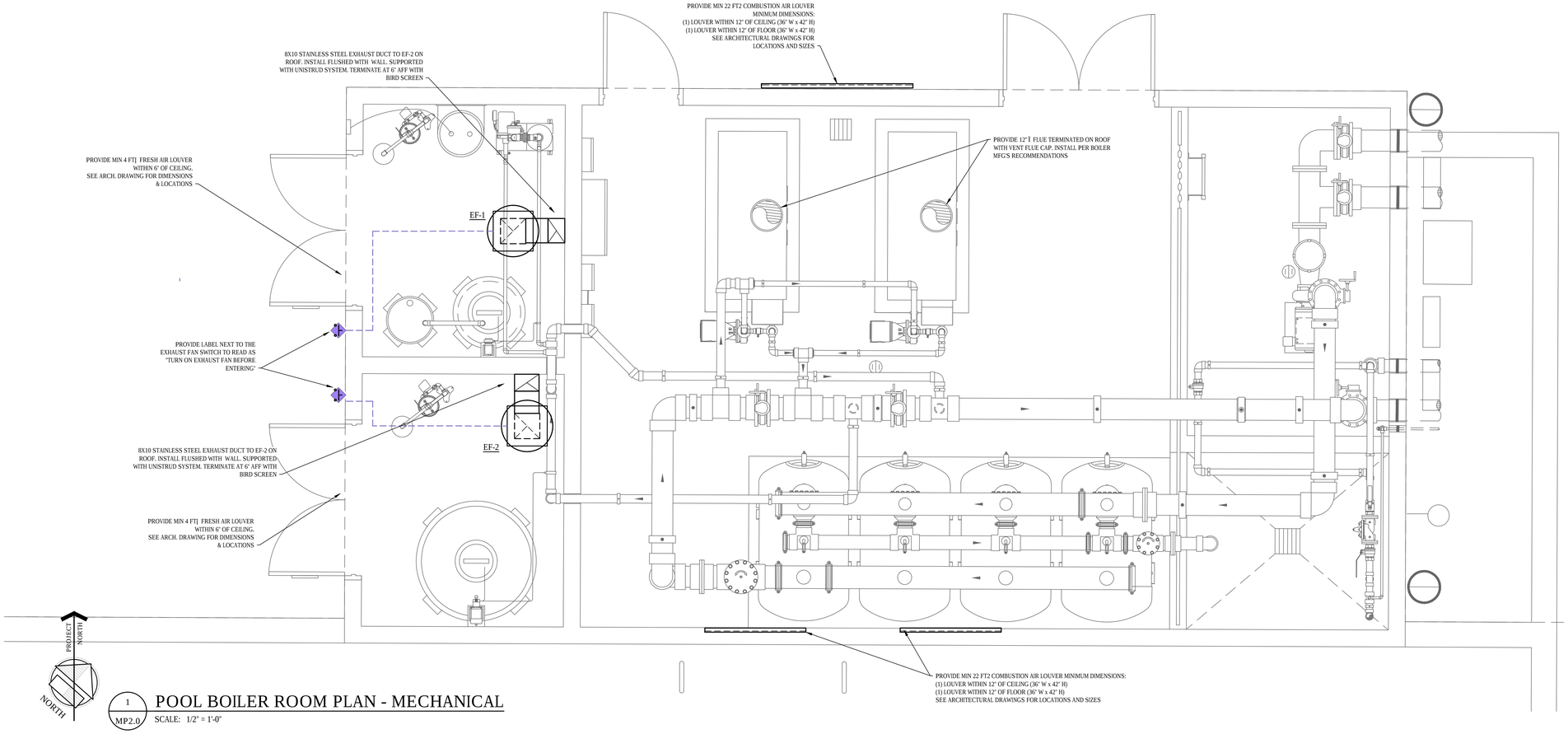
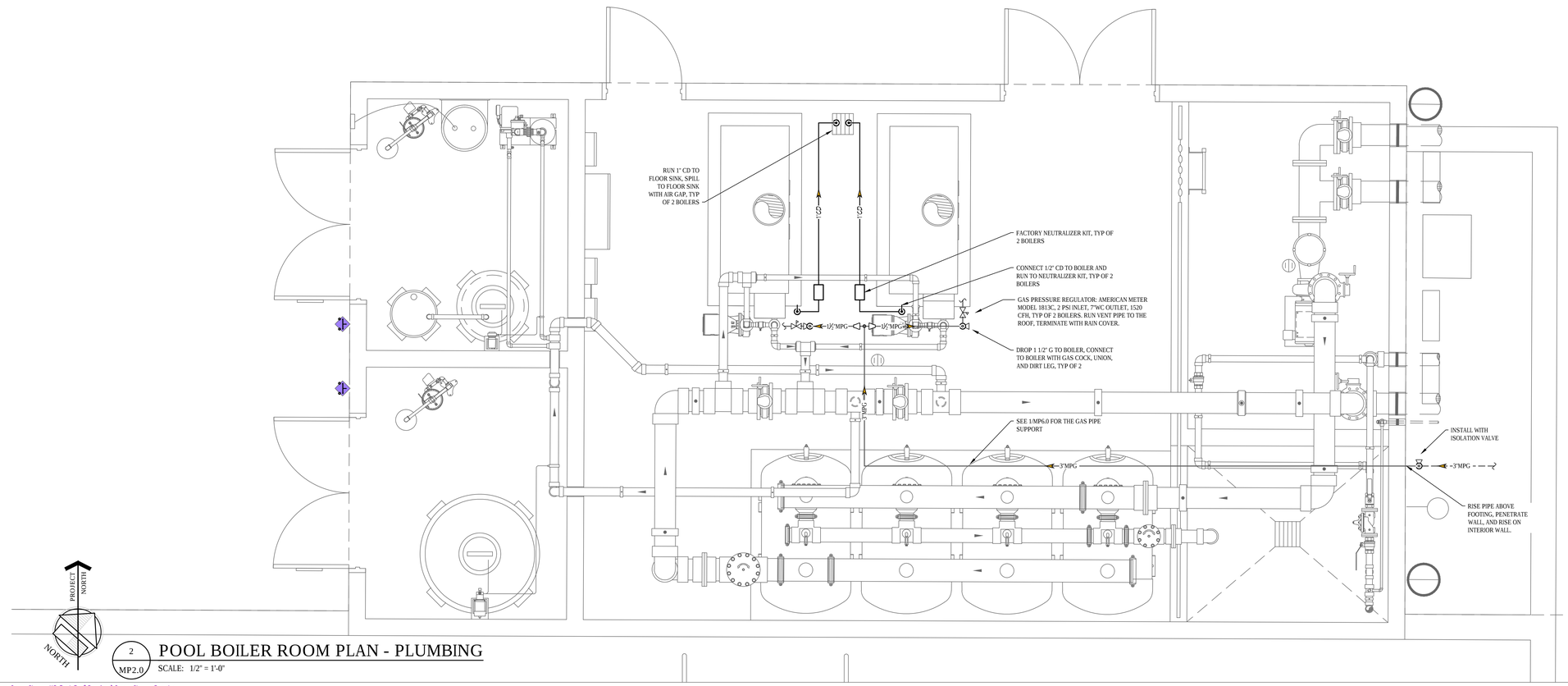
SHEET NO.	
MP1.0	

PLUMBING SITE PLAN



1 MP2.0 POOL BOILER ROOM PLAN - MECHANICAL

SCALE: 1/2" = 1'-0"



2 MP2.0 POOL BOILER ROOM PLAN - PLUMBING

SCALE: 1/2" = 1'-0"

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PLOT DATE: 03-12-20 PLOTTED BY: Julie

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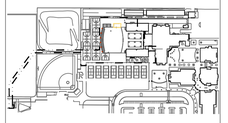
KEYMAP



POOL BOILER ROOM PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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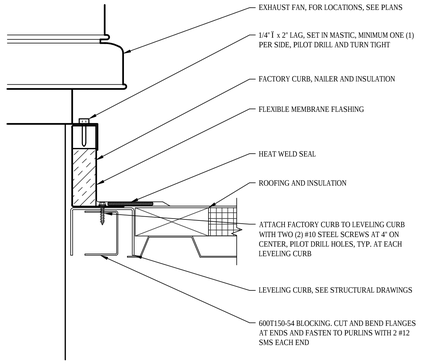
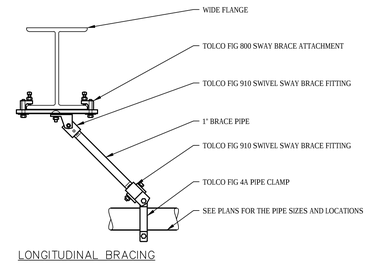
POOL BOILER ROOM PLAN

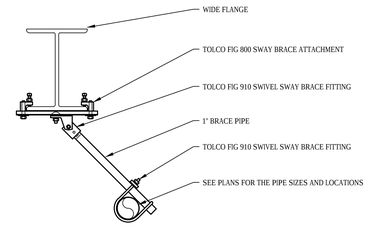


4 / MP6.0 ROOF EXHAUST FAN MOUNTING

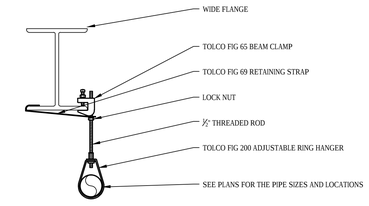
SCALE: N.T.S.



LONGITUDINAL BRACING



LATERAL BRACING

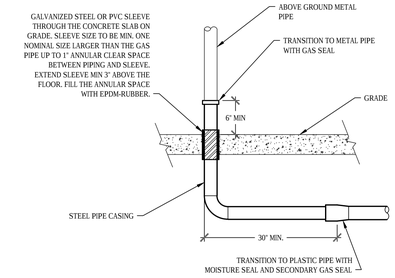


HANGER

NOTE
FOR VERTICAL HANGER SPACING, SEE SPECIFICATION SECTION 22 05 00. HORIZONTAL BRACING AT MAXIMUM 12'-0" ON CENTER.

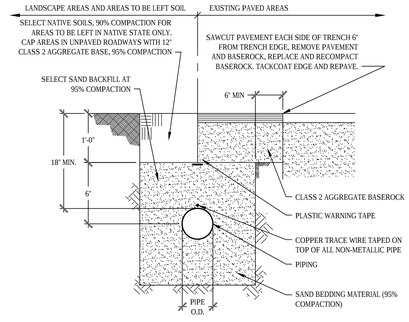
1 / MP6.0 PIPE HANGER AND BRACING

SCALE: N.T.S.



2 / MP6.0 GAS RISER

SCALE: N.T.S.



3 / MP6.0 UTILITY TRENCH

SCALE: N.T.S.

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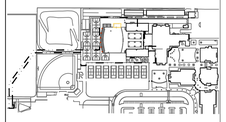

DETAILS

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STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
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STOCKTON, CA 95212

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1910900-1211

SHEET NO.
MP6.0

GENERAL

1. ALL CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, VOLUMES 1–2 (2015 INTERNATIONAL BUILDING CODE (IBC) WITH 2016 CALIFORNIA AMENDMENTS, INCLUDING SECTIONS AND 'A' CHAPTERS PERTAINING TO DSA–SS).

2. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.

3. DETAILS OF CONSTRUCTION ARE TYPICAL, UNLESS NOTED OTHERWISE, AND SHALL APPLY AT ALL LOCATIONS OF SIMILAR CONSTRUCTION. TYPICAL DETAILS ARE NOT CUT AT EVERY APPLICABLE LOCATION ON THE PLANS.

4. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

5. SHORING, TEMPORARY BRACING AND OTHER METHODS AND MEANS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND IS NOT INCLUDED IN THE SCOPE OF THE STRUCTURAL DRAWINGS.

6. THE FOLLOWING NOTES ARE FOR GENERAL MATERIAL GRADES AND PROCEDURES. SEE SPECIFICATIONS AND REMAINDER OF DRAWINGS FOR COMPLETE REQUIREMENTS. ITEMS NOTED IN PLANS, SECTIONS AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES.

7. LOADS:
   A) LIVE:
      ROOF: 20 PSF (REDUCIBLE)

   B) WIND:
      EXPOSURE C, 110 MPH BASIC WIND SPEED
      DIRECTIONAL PROCEDURE

   C) SEISMIC:
      BUILDING RISK CATEGORY II
      EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7–10 SECTION 12.8)
      LATITUDE: 38.0126, LONGITUDE: –121.2696
      SEISMIC DESIGN CATEGORY (SDC) D
      SITE CLASS D
      S_S=0.831, S_1=0.317; F_a=1.168, F_v=1.765;
      S_{MS}=0.971, S_{M1}=0.560; S_{DS}=0.647, S_{D1}=0.373
      IMPORTANCE FACTOR: I_e=1.00
      R=5 FOR SPECIAL REINFORCED MASONRY SHEAR WALLS
      C_S=0.129 (STRENGTH), 0.092 (ALLOWABLE STRESS)
      C_V=0.129 (STRENGTH), 0.092 (ALLOWABLE STRESS).

   D) LOAD COMBINATIONS FOR DESIGN:
      CONCRETE: PER CBC SECTION 1605A.2 FOR STRENGTH DESIGN.
      FOUNDATIONS: PER CBC SECTION 1605A.3.2 FOR ALLOWABLE STRESS DESIGN.
      ALL OTHERS: PER CBC SECTION 1605A.3.1 FOR ALLOWABLE STRESS DESIGN.

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	I.D.	INSIDE DIAMETER
ADJ	ADJACENT	IN	INCH
APPROX	APPROXIMATE	INT	INTERIOR
ARCH	ARCHITECTURAL		
		LAM	LAMINATE
BLDG	BUILDING	LBS	POUNDS
BLK	BLOCK		
BLKG	BLOCKING	KSI	KIPS PER SQ. IN.
BM	BEAM		
B.N.	BOUNDARY NAILING	MAX	MAXIMUM
BOT	BOTTOM	M.B.	MACHINE BOLT
BP	BASEPLATE	MECH	MECHANICAL
BRG	BEARING	MFR	MANUFACTURER
B.S.	BOTH SIDES	MIN	MINIMUM
		MISC	MISCELLANEOUS
C TO C	CENTER TO CENTER		
C.B.	CARRIAGE BOLT	<N>	NEW
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	N.S.	NEAR SIDE
		N.I.C.	NOT IN CONTRACT
C.I.	CAST IRON	NO.	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL	COLUMN	O.D.	OUTSIDE DIAMETER
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS		
C.P.	COMPLETE PENETRATION	PERP	PERPENDICULAR
CTRD	CENTERED	PL	STEEL PLATE
CTSK	COUNTERSINK	P.P.	PARTIAL PENETRATION
		PLYWD	PLYWOOD
<D>	DEMO	PSF	POUNDS PER SQ. FT.
DBL	DOUBLE	PSI	POUNDS PER SQ. IN.
DIA OR ø	DIAMETER		
DIAG	DIAGONAL	RAD	RADIUS
DO	DITTO	REINF	REINFORCING
DWG	DRAWING	REQD	REQUIRED
		REV	REVISION
EA	EACH	R.O.	ROUGH OPENING
E.F.	EACH FACE	RWD	REDWOOD
ELEC	ELECTRICAL		
ELEV	ELEVATION	S.A.D	SEE ARCH'L DRAWINGS
E.N.	EDGE NAILING	S.M.D.	SEE MECH'L DRAWINGS
EQ	EQUAL	S.L.D.	SEE LANDSCAPE DRAWINGS
E.W.	EACH WAY	S.F.	SQUARE FEET
EXIST OR <E>	EXISTING	SIM	SIMILAR
EXTER	EXTERIOR	SPEC	SPECIFICATION
		SQ	SQUARE
<F>	FUTURE	STD	STANDARD
F.D.	FLOOR DRAIN	STGRD	STAGGERED
FHWS	FLAT HEAD WOOD SCREW	STIFF	STIFFENER
FIN	FINISH	SYM	SYMMETRICAL
F.O.B.	FACE OF BLOCK		
F.O.C.	FACE OF CONCRETE	T&G	TONGUE & GROOVE
F.O.F.	FACE OF FINISH	THRD	THREADED
F.O.S.	FACE OF STUD	T.O.C.	TOP OF CONCRETE
F.P.	FULL PENETRATION	T.O.F.	TOP OF FRAMING
F.S.	FAR SIDE	T.O.S.	TOP OF STEEL
FT	FOOT OR FEET	TS	TUBE STEEL
FTG	FOOTING	TYP	TYPICAL
GA	GAGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
G.I.	GALVANIZED IRON	VERT	VERTICAL
GLB	GLUE–LAMINATED BEAM		
GYP.BD.	GYPSUM BOARD	W/	WITH
		W/O	WITHOUT
HDR	HEADER	WT	WEIGHT OR STEEL WT SECTION
HORIZ	HORIZONTAL		
HR	HOUR	WWF	WELDED WIRE FABRIC
H.S.	HIGH STRENGTH		
H.S.B.	HIGH STRENGTH BOLT		
HSS	HOLLOW STEEL SECTION		

GEOTECHNICAL & FOUNDATIONS

1. GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN:
   A) GEOTECHNICAL REPORT BY WALLACE KUHL & ASSOCIATES INC., STOCKTON, CA. REPORT NO. 12435.01P, DATED 09–11–19.
      GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF CONSTRUCTION DOCUMENTS. ALL RECOMMENDATIONS DESCRIBED THEREIN SHALL BE IMPLEMENTED IN PROJECT'S CONSTRUCTION, INCLUDING GRADING, STRIPPING OF EXISTING MATERIAL, LOCATION, TYPE AND INSTALLATION OF FILL MATERIAL, AND COMPACTION.

   B) CONTINUOUS & SPREAD FOOTINGS:
      MINIMUM WIDTH: 12" (CONTINOUS FOOTINGS) & 24" (SPREAD FOOTINGS)
      MINIMUM EMBEDMENT BELOW LOWEST ADJACENT FINISHED GRADE: 18"

   C) ALLOWABLE SOIL PRESSURES USED FOR FOUNDATION DESIGN:
      DEAD PLUS LIVE LOAD: 2000 PSF
      TOTAL LOAD W/ SEISMIC OR WIND: 2667 PSF
      ALLOWABLE FRICTION COEFFICIENT: 0.325
      ALLOWABLE PASSIVE PRESSURE: 250 PCF

      PIER/PILE ALLOWABLE LATERAL PRESSURE: 250 PCF PLUS 1/3 INCREASE FOR SHORT TERM LOADS
      IGNORE 1 FT. AT TOP. EFFECTIVE PIER WIDTH: 1 DIAMETERS.
      MINIMUM PIER SPACING: 3 DIAMETERS

      CANTILEVERED RETAINING WALL:
        ACTIVE PRESSURE: 50 PCF (LEVEL BACKFILL)
      RESTRAINED RETAINING WALL:
        AT–REST PRESSURE: 70 PCF (LEVEL BACKFILL)
                          90 PCF (2H:1V BACKFILL)
      PASSIVE PRESSURE: 250 PCF

   D) ENGINEERED FILL AND COMPACTION:
      PER GEOTECHNICAL REPORT RECOMMENDATIONS.

STRUCTURAL CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO CHAPTER 19A OF THE 2016 CALIFORNIA BUILDING CODE (CBC) AND 2014 ACI STANDARD 318 AND ASTM C94, SPECIFICATION FOR READY–MIX CONCRETE. CEMENT SHALL BE PORTLAND CEMENT TYPE II AND SHALL COMPLY WITH ASTM C150. CALCIUM CHLORIDE SHALL NOT BE USED. COARSE AND FINE AGGREGATE SHALL COMPLY WITH ASTM C33. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.

2. ALL STRUCTURAL CONCRETE MIXES SHALL HAVE MIN. FIVE (5) SACKS CEMENT PER CU. YARD AND MAX. WATER–TO–CEMENT RATIO OF 0.60. CONCRETE MIX PROPERTIES SHALL BE AS FOLLOWS:
   A) SLABS–ON–GRADE & CONCRETE WALLS:
      28–DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1/2" – 1"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C0, S1 (ACI 318 TABLE 19.3.1.1)

   B) FOOTINGS & GRADE BEAMS:
      28–DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1" – 1–1/2"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)

   C) NON–STRUCTURAL CONCRETE WALKS ON GRADE:
      28–DAY COMP. STRENGTH: 2,500 PSI
      LARGE AGGREGATE SIZE: 3/8" – 3/4"
      MAX. SLUMP: 5"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)

3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GR. 60 U.N.O. ALTERNATIVELY, #4 AND SMALLER BARS MAY CONFORM TO ASTM A615, GR. 40. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

4. GROUT SHALL BE NON–SHRINK GROUT U.N.O. CONFORMING TO ASTM C1107. GROUT SHALL HAVE A 7–DAY COMPRESSIVE STRENGTH 5,000 PSI MIN. GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 928", SIKA SIKAGROUT 212, OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SURFACE PREPARATION RECOMMENDATIONS.

5. BONDING AGENT SHALL BE MASTER BUILDERS "MASTEREMACO ADH 326", SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL, AND SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

6. CURING COMPOUND SHALL BE APPROVED BY ENGINEER, AND APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

7. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO FULL 1/4" AMPLITUDE (ICRI CSP 9) WITH BUSH HAMMER OR OTHER APPROVED METHOD. SURFACES SHALL BE CLEANED OF DUST AND DEBRIS IMMEDIATELY PRIOR TO PLACEMENT OF NEWER CONCRETE.

8. REINFORCING STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. SPLICE WITH CONTACT LAP–SPLICES. STAGGER ALL SPLICES. SPLICE LENGTHS SHALL BE 57 BAR–DIAMETERS MINIMUM. WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL SQUARES, BUT NOT LESS THAN 12".

9. EXTEND HORIZONTAL BARS IN FOUNDATIONS AND WALLS INTO INTERSECTING FOUNDATIONS AND WALLS WITH BEND AND 30 BAR DIAMETER EXTENSION, BUT NOT LESS THAN 24" EXTENSION.

10. WELDING OF REINFORCING SHALL NOT BE ALLOWED.

11. SEE STRUCTURAL STEEL NOTES FOR ANCHOR BOLTS CAST IN CONCRETE.

12. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT. ANCHOR BOLTS SHALL BE FIRMLY SECURED TO FORMS TO PREVENT THEIR MOVEMENT DURING CONCRETE PLACEMENT. WET–SETTING OF ANCHOR BOLTS IS NOT ALLOWED.

13. MAINTAIN THE FOLLOWING MINIMUM CONCRETE COVER FOR REBAR:
    WHERE CONC. IS PLACED AGAINST EARTH = 3"
    WHERE CONCRETE IS FORMED AND EXPOSED TO EARTH OR WEATHER = 2"
    WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER = 1–1/2"
    SLABS ON GRADE = 3/4"

14. WHERE SIDES OF FOUNDATIONS (FOOTINGS, GRADE BEAMS OR WALLS) ARE CAST AGAINST EARTH WITHOUT FORMS, FOUNDATION SHALL BE WIDENED 1" AT EACH SUCH SURFACE.

15. EXCAVATION FOR FOOTINGS BELOW DEPTHS SHOWN ON DRAWINGS SHALL BE BACKFILLED WITH CONCRETE.

16. NOTIFY ENGINEER, PROJECT INSPECTOR, AND DSA–SS AT LEAST 48 HOURS BEFORE ANY CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT. SEE ALSO SPECIAL INSPECTION REQUIREMENTS.

17. CONTRACTOR SHALL, PRIOR TO EXCAVATION, VERIFY FOOTING CONDITIONS AND FINISH GRADE/PAVING ELEVATIONS AT PERIMETER OF BUILDING. VERIFY THAT FOOTINGS HAVE SPECIFIED MINIMUM DEPTH BELOW ADJACENT GRADE AND THAT FOOTINGS DO NOT "DAYLIGHT" OR OTHERWISE INTERFERE WITH INTENDED EXTERIOR CONDITIONS. NOTIFY ENGINEER IF SUCH INTERFERENCE EXISTS PRIOR TO EXCAVATION.

18. IF LOADING OF CONCRETE ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF CONCRETE MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT CONCRETE ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF CONCRETE ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

CONCRETE MASONRY

1. ALL CONCRETE UNIT MASONRY WORK SHALL CONFORM TO CHAPTER 21A OF THE 2016 CALIFORNIA BUILDING CODE (CBC) AND 2013 EDITIONS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.

2. ALL BLOCK UNITS SHALL BE NORMAL OR MEDIUM WEIGHT UNITS, WITH MINIMUM COMPRESSIVE STRENGTH OF 2,800 PSI, CONFORMING TO ASTM C90. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, CONFORMING TO ASTM C476.

3. DESIGN OF MASONRY IS BASED ON COMPRESSIVE STRENGTH OF MASONRY f'm OF 2,000 PSI AND FULL ALLOWABLE STRESSES PER CBC. SPECIAL INSPECTION IS REQUIRED. SEE INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.

4. f'm COMPLIANCE SHALL BE VERIFIED BY THE "UNIT STRENGTH METHOD" PER TMS 602/ACI 530.1/ASCE 6 ARTICLE 1.4B.2 AND CBC SECTION 2105A.3 (DSA–SS). TEST UNITS PRIOR TO CONSTRUCTION. UNITS AND GROUT SHALL BE TESTED DURING CONSTRUCTION FOR EVERY 5,000 SQ. FEET OF WALL AREA. VERIFY MORTAR TYPE.

5. REINFORCING SHALL BE AS SPECIFIED FOR CONCRETE.

6. LAP ALL BARS 72 BAR–DIAMETERS, BUT NOT LESS THAN 24" AT ALL SPLICES. PROVIDE BEND PLUS 24" EXTENSION ON HORIZONTAL BARS AT ALL WALL INTERSECTIONS.

7. SEE STEEL NOTES FOR BOLTS EMBEDDED IN MASONRY. ALL ANCHOR BOLTS THROUGH FACE SHELLS OF MASONRY UNITS SHALL BE GROUTED IN PLACE WITH AT LEAST 1" OF GROUT BETWEEN BOLT AND SHELL, ALL AROUND BOLT.

8. REINFORCING BARS AND TIES SHALL BE HELD AT LEAST 1/2" CLEAR FROM MASONRY UNIT FACE SHELLS, EXCEPT BARS MAY BEAR ON CROSS WEBS OF BOND BEAM UNITS. PARALLEL BARS SHALL BE HELD AT LEAST 1" CLEAR BETWEEN, EXCEPT AT CONTACT LAP SPLICES.

9. UNITS SHALL BE LAYED IN RUNNING BOND. USE OF OPEN–END UNITS THROUGHOUT IS ENCOURAGED. USE OF SPEED–BLOCK (NON–GROUTED OPEN–END UNITS) IS NOT ALLOWED. IF OPEN–END UNITS ARE NOT USED, ALL LINTEL HEAD JOINTS SHALL BE FILLED SOLID WITH MORTAR.

10. ALL STARTER (BOTTOM) COURSE UNITS SHALL BE INVERTED BOND–BEAM UNITS, TYPICAL THROUGHOUT. TOPS OF FOOTINGS RECEIVING MASONRY UNITS AND GROUT SHALL BE ROUGHENED TO FULL 1/8" AMPLITUDE (1/4" PEAK–TO–VALLEY), FOR FULL WIDTH OF UNITS.

11. GROUT ALL CELLS SOLID UNLESS NOTED OTHERWISE ON DRAWINGS. NO ITEMS OTHER THAN REBAR, STEEL CONDUIT AND ANCHOR BOLTS SHALL BE EMBEDDED IN CMU. ALL HOLES CREATED FOR EXTRACTION OF TESTING/SAMPLE CORES SHALL BE FILLED SOLID WITH APPROVED NON–SHRINK GROUT AND FINISHED TO MATCH TEXTURE OF ADJACENT FACE SHELL.

12. GROUTING SHALL BE DONE BY THE LOW–LIFT METHOD ONLY (UNITS LAID UP 4'–0" HIGH MAXIMUM AT A TIME, AND 4'–0" HIGH MAXIMUM LIFTS). ANY REQUESTS TO USE HIGH–LIFT GROUTING METHOD SHALL BE MADE AT LEAST FOUR (4) WEEKS PRIOR TO LAYING UP OF UNITS, AND WILL BE CONSIDERED A CHANGE TO THE DRAWINGS, REQUIRING DSA–APPROVAL. ADDITIONAL DSA REQUIREMENTS FOR HIGH–LIFT METHOD WILL BE ISSUED AS A CHANGE ORDER, AND SUBMITTED TO DSA FOR APPROVAL.

13. IF LOADING OF CONCRETE MASONRY ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF GROUT AND/OR MORTAR MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS TO BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF MASONRY ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

STRUCTURAL STEEL

1. ALL STEEL AND MISC. IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

2. STEEL MATERIAL SHALL BE AS FOLLOWS:
   W SHAPES: ASTM A992
   PLATES, CHANNELS & ANGLES: ASTM A36 UNLESS NOTED OTHERWISE
   RECTANGULAR TUBES (TS OR HSS): ASTM A500 GRADE B, Fy=46 KSI
   PIPES (STD., X–STRG. & XX–STRG.): ASTM A53 GRADE B, Fy=35 KSI
   ROUND TUBES (HSS): ASTM A500 GRADE B, Fy=42 KSI
   HEADED STUDS: ASTM A108 TYPE B, Fy=51 KSI
   MACHINE BOLTS (M.B.): ASTM A307 GRADE A, A563 FOR NUTS, F844 FOR WASHERS
   ANCHOR BOLTS/RODS (A.B.): ASTM F1554 GRADE 36, A307 GRADE C, OR A36
   THREADED RODS: ASTM A307 OR A36 (MAY BE THREADED FOR ENTIRE LENGTH)
   WELDING ELECTRODES: E70XX

3. UNLESS NOTED OTHERWISE, ANCHOR BOLTS, MACHINE BOLTS AND THREADED ANCHOR RODS THROUGH STEEL AND EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F1554, A307 OR A36. ANCHOR BOLTS/RODS SHALL HAVE A STANDARD BOLT HEAD OR TIGHTENED DOUBLE NUTS. THREADED RODS SHALL HAVE TIGHTENED DOUBLE NUTS AT END. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT.

4. ALL WELDING ON STRUCTURAL STEEL SHALL CONFORM WITH AWS D1.1 CODE AND SHALL BE PRE–QUALIFIED WELDS CONFORMING TO AWS D1.1. UNLESS SPECIFICALLY INDICATED AS FIELD WELDING, ALL WELDS MAY BE PERFORMED IN SHOP OR FIELD.

5. HEADED STUDS SHALL BE WELDED WITH AUTOMATICALLY TIMED STUD WELDING EQUIPMENT. STUDS SHALL NOT BE FILLET– OR BUTT–WELDED UNLESS SPECIFICALLY SHOWN AS SUCH ON DETAILS.

6. ALL COMPLETE AND FULL PENETRATION GROOVE WELDS (DESIGNATED BY "C.P." OR "F.P.") SHALL USE BACK–UP PLATES UNLESS NOTED OTHERWISE. ALL PARTIAL–PENETRATION WELDS (DESIGNATED BY "P.P.") SHALL HAVE LARGEST EFFECTIVE THROAT ALLOWED BY AWS. GROOVE WELDS NOT NOTED WITH "C.P.", "F.P." OR "P.P" SHALL BE COMPLETE PENETRATION WELDS.

7. WELDING PROCEDURE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND THE TEST AND INSPECTION AGENCY'S WELDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO START OF FABRICATION.

8. MINIMUM SPACING OF ALL BOLTS, 7/8"ø AND SMALLER IN STEEL SHALL BE 3" o.c. AND THE MINIMUM EDGE DISTANCE FROM CENTERLINE OF HOLE TO EDGE OF PLATE OR MEMBER SHALL BE 1–1/2", UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BOLTS ARE INSTALLED THROUGH FLANGES OF "W" OR SIMILAR SHAPES, THE BOLT GAGE SHALL BE AS RECOMMENDED BY AISC.

9. HOLES FOR BOLTS IN STEEL SHALL BE 1/16" MAXIMUM LARGER IN DIAMETER THAN BOLTS. HOLES FOR ANCHOR BOLTS SHALL NOT BE MORE THAN 5/16" LARGER FOR A.B.'S UP TO 1"ø, AND NOT MORE THAN 1/2" LARGER FOR A.B.'S OVER 1"ø. ALL HOLES SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES IS NOT ALLOWED, WHETHER IN FIELD OR SHOP.

10. ALL STRUCTURAL STEEL IN EXTERIOR SPACES OR EXPOSED TO VIEW IN INTERIOR SPACES SHALL BE PAINTED WITH TWO (2) COATS OF ALKYD RED OXIDE PRIMER, COMPLYING WITH SSPC–PAINT 25 OR U.S. FEDERAL SPEC TT–P–645, WITH MIN. DRY THICKNESS OF 2 MILS. SEE ARCHITECTURAL SPECS FOR FINISH PAINTING. STRUCTURAL STEEL IN ENCLOSED SPACES AND NOT EXPOSED TO WEATHER NEED NOT BE PAINTED OR PRIMED UNLESS NOTED OTHERWISE. STEEL TO BE EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.

11. ALL NON–PAINTED STEEL FASTENERS EXPOSED TO WEATHER OR IN UNENCLOSED SPACES SHALL BE HOT–DIPPED GALVANIZED, UNLESS NOTED OTHERWISE. GALVANIZED BOLTS AND NUTS SHALL BE PROVIDED BY SAME MANUFACTURER.

12. ALL STRUCTURAL STEEL SPECIFIED ON DRAWINGS TO BE GALVANIZED SHALL BE HOT–DIPPED ZINC GALVANIZED WITH MIN. 1.8 OZ./SQ. FT. ON ALL SURFACES. GALVANIZING SHALL BE TOUCHED UP AT FIELD–WELDED CONNECTIONS, FIELD–DRILLED HOLES, OR FIELD–CUT EDGES WITH A HIGH–ZINC DUST–CONTENT PAINT.

POST-INSTALLED ANCHORS & DOWELS

<u>*NOTE:</u> POST–INSTALLED ANCHORS PROVIDED IN THE EVENT THAT REBAR OR CAST–IN–PLACE ANCHOR BOLTS ARE MISSED OR INCORRECTLY PLACED, CONTRACTOR SHALL NOTIFY PROJECT INSPECTOR & SEOR ENGINEER FOR DIRECTIONS PRIOR TO PROCEEDING WITH INSTALLATION.**

<u>A. GENERAL – APPLICABLE TO ALL ANCHORS:</u>
1. ANCHORS SHALL BE INSTALLED ONLY WHERE SPECIFIED ON DRAWINGS, PER MANUFACTURER'S INSTRUCTIONS, USING MANUFACTURER'S EQUIPMENT, WHERE APPLICABLE. INSTALLER SHALL HAVE ON SITE A COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ICC–ES OR IAPMO–UES REPORT.

2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT THAT HAS ATTAINED THE MIN. DESIGN COMPRESSIVE STRENGTH AT MIN. 28 DAY AGE, EXCEPT AS NOTED BELOW FOR ADHESIVE ANCHORS. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT CONCRETE OR MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY GROUT BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

3. WHERE POST–INSTALLED ANCHORS ARE USED TO MITIGATE OMITTED OR MISPLACED CAST–IN–PLACE ANCHORS, ADDED SPECIAL INSPECTION AND TESTING COSTS ASSOCIATED WITH THE POST–INSTALLED ANCHORS WILL BE PAID FOR BY THE DISTRICT, HOWEVER, SUCH COSTS WILL BE BACK–CHARGED TO THE CONTRACTOR.

4. PRIOR TO DRILLING HOLES FOR ANY POST–INSTALLED ANCHORS INTO NEW OR EXISTING CONCRETE OR MASONRY, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING. WHERE REINFORCING BARS CANNOT BE LOCATED, CARE SHALL BE TAKEN WHILE DRILLING HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRED. USE OF DRILLS WITH GROUND FAULT INTERRUPTERS (GFI) IS RECOMMENDED.

5. PROVIDE TESTING AND INSPECTIONS OF ANCHOR INSTALLATIONS PER TESTING AND SPECIAL INSPECTION NOTES, THIS SHEET.

6. ANCHORS OTHER THAN THOSE SPECIFIED BELOW MAY BE USED ONLY WHEN <u>CURRENT</u> ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED FOR REVIEW AND APPROVAL IN WRITING. ANCHORS SHALL NOT BE INSTALLED UNTIL ANCHORS ARE APPROVED BY STRUCTURAL ENGINEER AND DSA, AND TEST LOADS ARE DETERMINED AND ISSUED.

7. ANCHORS IN CONTACT WITH PRESERVATIVE–TREATED AND FIRE–RETARDANT–TREATED WOOD SHALL BE OF HOT–DIPPED ZINC–COATED GALVANIZED STEEL OR STAINLESS STEEL. ANCHORS EXPOSED TO WEATHER OR REQUIRED TO BE CORROSION RESISTANT SHALL BE OF HOT–DIPPED ZINC–COATED GALVANIZED STEEL OR STAINLESS STEEL.

<u>B. EXPANSION ANCHORS:</u>
1. EXPANSION ANCHORS SHALL BE WEDGE TYPE ANCHORS ONLY AND SHALL HAVE ICC–ES OR IAPMO–UES APPROVAL, INCLUDING APPROVAL FOR RESISTANCE TO SEISMIC AND WIND LOADS, PASSING ICC–ES CRITERIA AC193 (CONCRETE) & AC01 (MASONRY). USE ONE OF THE FOLLOWING ICC–ES OR IAPMO–UES APPROVED SYSTEMS:
   CONCRETE:
   a) HILTI KWIK BOLT TZ (ESR–1917), <u>(TYP. ANCHOR SPECIFIED U.N.O.)</u>
   b) SIMPSON STRONG–BOLT 2 ANCHORS (ESR–3037),
   c) DEWALT/POWERS POWER–STUD+ SD2, SD4 & SD6 ANCHORS (ESR–2502).
   MASONRY:
   a) HILTI KWIK BOLT 3 (ESR–1385), <u>(TYP. ANCHOR SPECIFIED U.N.O.)</u>
   b) SIMPSON WEDGE–ALL ANCHORS (ESR–1396),
   c) DEWALT/POWERS POWER–STUD+ SD1 (ESR–2966)
   d) ITW RED HEAD TRUBOLT+ WEDGE ANCHORS (ESR–4058).
NOTE: OTHER EXPANSION ANCHORS MAY BE USED ONLY WHEN ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.

2. EXPANSION ANCHORS SHALL HAVE EMBEDMENT NOT LESS THAN EIGHT (8) ANCHOR DIAMETERS, OR AS OTHERWISE SPECIFIED IN DETAILS. TORQUE ANCHORS DURING INSTALLATION TO THE RECOMMENDED INSTALLATION TORQUE VALUES SPECIFIED IN MANUFACTURER'S ICC–ES OR IAPMO–UES REPORT.

<u>C. CHEMICAL ADHESIVE ANCHORS AND DOWELS:</u>
1. ALL THREADED RODS AND REBAR DOWELS INSTALLED IN HARDENED CONCRETE OR MASONRY GROUT WITH "ADHESIVE" SHALL BE A TWO–PART NOZZLE–MIXED ICC–ES OR IAPMO–UES APPROVED CHEMICAL ADHESIVE SYSTEM, PASSING ICC–ES CRITERIA AC308 (CONCRETE) & AC58 (MASONRY). USE ONE OF THE FOLLOWING ICC–ES OR IAPMO–UES APPROVED SYSTEMS:
   CONCRETE:
   a) HILTI "HIT–RE 500–V3" ADHESIVE ANCHOR SYSTEM (ESR–3814), <u>(SPECIFIED U.N.O.)</u>
   b) SIMPSON "SET–XP" ADHESIVE ANCHOR SYSTEM (ESR–2508),
   c) DEWALT/POWERS "PURE110+" ADHESIVE ANCHOR SYSTEM (ESR–3298),
   d) ITW RED HEAD "G5+" ADHESIVE ANCHOR SYSTEM (ESR–4138).
   MASONRY:
   a) HILTI "HIT" SYSTEM WITH HY–200 ADHESIVE (ESR–3963), <u>(SPECIFIED U.N.O.)</u>
   b) SIMPSON "SET–XP" ADHESIVE ANCHOR SYSTEM (IAPMO ER–0265),
   c) DEWALT/POWERS "AC100+ GOLD" ADHESIVE ANCHOR SYSTEM (ESR–3200).
NOTE: OTHER CHEMICAL ADHESIVE ANCHOR SYSTEMS MAY BE USED ONLY WHEN ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.

2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT OF MIN. 21 DAY AGE. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 21–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION FOR DIRECTION.

3. INSTALLATION OF CHEMICAL ADHESIVE ANCHORS IN HORIZONTAL OR OVERHEAD APPLICATIONS SHALL BE INSTALLED BY AN ACI/CSRI CERTIFIED ADHESIVE ANCHOR INSTALLER.

4. HOLES SHALL BE DRILLED 1/8" TO 1/4" LARGER IN DIAMETER THAN ROD OR BAR OUTER DIAMETER, AS SPECIFIED IN ICC–ES OR IAPMO–UES REPORT.

5. BARS/RODS SHALL HAVE EMBEDMENT IN ADHESIVE NOT LESS THAN TEN (10) NOMINAL BAR/ROD DIAMETERS IN CONCRETE AND NINE (9) NOMINAL BAR/ROD DIAMETERS IN MASONRY, OR AS OTHERWISE SPECIFIED IN DETAILS.

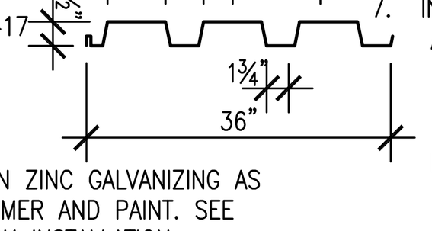
6. INSTALLATION TORQUE FOR ALL ANCHORS SHALL BE REDUCED ACCORDING TO MANUFACTURER'S RECOMMENDATION DUE TO THE VICINITY OF ANCHOR TO EDGE OF CONCRETE.

7. THE BOND STRESSES AS SPECIFIED IN ICC–ES OR IAPMO–UES REPORT SHALL BE BASED ON LONG TERM ELEVATED TEMPERATURES OF NOT LESS THAN 110 DEGREES F.

METAL ROOF DECK

1. METAL DECK SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ICC–ES REPORT.

2. METAL DECK SHALL BE AS MANUFACTURED BY VERCO MANUFACTURING CO. (ESR–1735P), WITH THE FOLLOWING PROPERTIES:
   PROFILE: 1.5" DEEP, HSB–36 WITH STANDARD INTERLOCKING SIDELAP
   ICC–ES APPROVAL: PER REPORT ESR–1735P
   THICKNESS: 18 Ga.
   PER–FOOT PROPERTIES: I = 0.377 +S = 0.411, –S = 0.417
   FINISH: <u>G90</u> GALVANIZED WITH PRIMER ON <u>BOTH</u> SIDES.



3. ATTACHMENT TO SUPPORTING FRAMING: SEE DRAWINGS, B/S2.1.

4. TOUCH–UP: ALL WELDS SHALL BE TOUCHED UP WITH SPRAY–ON ZINC GALVANIZING AS RECOMMENDED BY MANUFACTURER PRIOR TO RE–APPLICATION OF PRIMER AND PAINT. SEE OTHER DRAWINGS FOR PRIMER AND PAINT TO BE APPLIED AFTER DECK INSTALLATION.

5. LAYOUT: DECK SHALL BE LAID OUT SUCH THAT A DOWN–FLUTE IS CENTERED OVER EVERY CMU WALL PARALLEL TO DECK FLUTES. USE ONE–PIECE SHEETS OVER ENTIRE TRANSVERSE DIMENSION OF BUILDINGS. NO SHEET LAPS/SPLICES ARE ALLOWED WITHIN 6" OF CMU FLUTES PARALLEL TO FLUTES.

TESTING AND SPECIAL INSPECTIONS

1. GENERAL
   A) ALL TESTS AND SPECIAL INSPECTIONS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF 2016 CALIFORNIA BUILDING CODE (CBC) SECTION 1701A AND APPROVED FORM DSA–103, "STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS."
   B) ALL TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC) SECTION 4–335.
   C) THE OWNER SHALL EMPLOY AND PAY THE INSPECTION/TESTING LABORATORY. COSTS OF RE–TESTING MAY BE BACK–CHARGED TO THE CONTRACTOR.
   D) INSPECTOR SHALL BE APPROVED BY DSA. INSPECTIONS SHALL BE IN ACCORDANCE WITH CAC SECTION 4–333(b), AND THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH CAC SECTION 4–342.
   E) COPIES OF ALL TEST/INSPECTION REPORTS SHALL BE SUBMITTED TO ARCHITECT, STRUCTURAL ENGINEER, PROJECT INSPECTOR. AND DSA–SSS.

2. FOUNDATIONS AND SLABS–ON–GRADE:
   A) NOTIFY ENGINEER AND PROJECT INSPECTOR 48 HOURS BEFORE CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT.
   B) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.3.
   C) THE TESTING AGENCY SHALL PERFORM THE FOLLOWING:
      * REVIEW ALL CONCRETE MIX DESIGNS. ALL DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.
      * FOR EACH CONCRETE MIX PLACED, AGENCY SHALL CAST (4) TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH 50 CUBIC YARDS OR 2000 SQUARE FEET, OR FRACTION THEREOF, OF CONCRETE PLACED EACH DAY, AND TRANSPORT CYLINDERS TO LAB. TEST CYLINDERS IN ACCORDANCE WITH ASTM C39. TEST (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS. HOLD LAST TEST CYLINDER FOR 60 DAYS.
      * INSPECT FINAL PLACEMENT OF ALL REINFORCING AND STEEL EMBEDS AS INDICATED ON DETAILS PRIOR TO CONCRETE PLACEMENT.
      * CONTINUOUS INSPECTION OF CONCRETE PLACEMENT FOR ALL DRILLED PIERS AND GRADE BEAM FOOTINGS.
   D) SEE ITEM 7 BELOW FOR INSPECTIONS BY GEOTECHNICAL ENGINEER.

3. CONCRETE UNIT MASONRY:
   A) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.4.
   B) VERIFY f'M COMPLIANCE PER UNIT STRENGTH METHOD PER CBC SECTION 2105A.3.
   C) VERIFY REINFORCING PLACEMENT.
   D) INSPECT GROUT SPACE AND PLACEMENT.
   E) MASONRY CORE TEST PER CBC SECTION 2105A.4. AFTER MASONRY HAS CURED, NOT LESS THAN TWO CORES SHALL BE TAKEN, INSPECTED FOR WORKMANSHIP AND TESTED IN SHEAR.
   F) INSPECT CORING OPERATION AND CORES.

4. POST–INSTALLED ANCHORS IN CONCRETE AND CONCRETE MASONRY:
   A) <u>GENERAL – APPLICABLE TO ALL ANCHORS AND DOWELS:</u>
      1) ALL EXPANSION ANCHORS, SCREW ANCHORS AND ADHESIVE ANCHOR SYSTEMS USED SHALL HAVE ICC–ES OR IAPMO–UES APPROVAL.
      2) PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL ANCHORS.
   B) <u>EXPANSION ANCHORS IN CONCRETE & MASONRY:</u>
      1) PULL–TEST OR TORQUE–TEST 100% OF ANCHORS EXCEPT AS NOTED; PULL–TEST OR TORQUE–TEST 10% OF SOLE PLATE ANCHOR BOLTS AND 50% OR ALTERNATE ANCHORS FOR EQUIPMENT ANCHORAGE AND IN NON–STRUCTURAL APPLICATIONS.
      2) PULL–TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1–1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI KWIK–BOLT TZ (ESR–1917)</u> IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI KWIK–BOLT 3 (ESR–1385)</u> IN MASONRY.
      3) PULL–TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW.

ANCHOR DIAMETER	NOMINAL EMBEDMENT (CONC./MASONRY)	CONC. TEST LOAD (LBS.)	MASONRY TEST LOAD (LBS.)	INSTALLATION TORQUE (FT.–LBS.)
3/8"	2 5/16" / 2½"	1905	1250	25
½"	3¼" / 3½"*(3"**)	4050	1450*(1035**)	40
5/8"	4 7/16" / 4"*(3½"**)	5525	1990*(1365**)	60
¾"	5 9/16" / 4 3/8"	7150	2630	110

* – AT ANCHOR INSTALLED IN THE FACE OF GROUT–FILLED MASONRY
** – AT ANCHOR INSTALLED IN THE TOP OF GROUT–FILLED MASONRY

      4) ALTERNATIVELY, TORQUE–TEST ANCHORS WITH CALIBRATED TORQUE WRENCH TO VALUES SPECIFIED IN MANUFACTURER'S ICC–ES OR IAPMO–UES REPORT FOR RECOMMENDED INSTALLATION TORQUE WITHIN 1/4 TURN OF THE NUT FOR 3/8"ø SLEEVE ANCHOR ONLY AND WITHIN 1/2 TURN OF THE NUT FOR ALL OTHER ANCHORS.

   D) <u>RODS & DOWELS WITH CHEMICAL ADHESIVE IN CONCRETE & MASONRY:</u>
      1) PULL–TESTING OF RODS INSTALLED IN CHEMICAL ADHESIVE IS REQUIRED FOR ALL ANCHORS. TESTING OF REBAR USED ONLY AS SHEAR DOWELS ACROSS COLD JOINTS IN SLABS–ON–GRADE, WHERE SLAB IS NOT PART OF THE LATERAL FORCE–RESISTING SYSTEM, IS NOT REQUIRED.
      2) PULL–TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1–1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI HIT–RE 500–V3 (ESR–3814)</u> IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS PROVIDED IN THE ICC–ES REPORT FOR <u>HILTI HIT HY–200 (ESR–3963)</u> IN MASONRY.
      3) PULL–TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW, BASED ON MIN. EMBEDMENT OF 10ø IN CONCRETE & 9ø IN MASONRY, U.N.O.

ANCHOR/BAR DIAMETER	MIN. EMBEDMENT (CONC./MASONRY)	CONC. TEST LOAD (LBS.)	MASONRY TEST LOAD (LBS.)	INSTALLATION TORQUE (FT.–LBS.)
3/8", #3	3¾" / 3 3/8"*	2910	1510*	15
½", #4	5" / 4½"*(4"**)	5165	2290*(1760**)	30
5/8", #5	6¼" / 5 5/8"*(4"**)	8245	2220*(1960**)	60
¾", #6	7½" / 6¾"*	10150	2720	100

* – AT ANCHOR INSTALLED IN THE FACE OF GROUT–FILLED MASONRY
** – AT ANCHOR INSTALLED IN THE TOP OF GROUT–FILLED MASONRY

5. WELDING OF STRUCTURAL STEEL. TESTING LAB SHALL:
   A) VERIFY CERTIFICATION OF WELDERS AT START OF WORK.
   B) REVIEW WELDING PROCEDURE SPECIFICATIONS SUBMITTED BY FABRICATOR.
   C) PROVIDE CONTINUOUS INSPECTION OF ALL COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, AND ALL FILLET WELDS 3/8" AND LARGER.
   D) PROVIDE PERIODIC INSPECTION OF ALL FILLET WELDS 5/16" AND SMALLER.
   E) TEST WELDS AS DEEMED NECESSARY BY THE INSPECTION AGENCY TO ENSURE ADEQUACY OF WELDS AND CONFORMANCE TO THE DRAWINGS AND SPECIFICATIONS.

6. ADDITIONAL INSPECTIONS BY STRUCTURAL ENGINEER:
   ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE FOLLOWING TO ALLOW FOR INSPECTION OF THE RESPECTIVE WORK PRIOR TO ENCLOSING IN FINISHES:
   A) AT SUBSTANTIAL COMPLETION OF ANY AREA OF FOUNDATION WORK AND RETAINING WALLS PRIOR TO CLOSING OF FORMS OR PLACEMENT OF CONCRETE.
   B) AT SUBSTANTIAL COMPLETION OF ANY AREA OF STRUCTURAL STEEL FRAMING.

7. INSPECTIONS BY GEOTECHNICAL ENGINEER:
   A) PROVIDE PERIODIC INSPECTION OF SITE PREPARATION & GRADING – STRIPPING OR DISCING OPERATIONS. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.
   B) PROVIDE CONTINUOUS INSPECTION OF ENGINEERED FILL OPERATIONS. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
   C) PROVIDE CONTINUOUS INSPECTION OF EXCAVATIONS FOR DRILLED PIER FOOTINGS. VERIFY PLACEMENT LOCATIONS, PLUMBNESS, DIAMETERS AND LENGTHS. RECORD CONCRETE VOLUMES.

SHOP DRAWING SUBMITTALS

1. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING MATERIALS/PRODUCTS:
   A) CONCRETE MIX DESIGNS (SUBMIT TO TESTING/INSPECTION AGENCY)
   B) CONCRETE & MASONRY REINFORCING
   C) CONCRETE SLAB AND WALL CONTROL/CONSTRUCTION JOINT LAYOUT
   D) CONCRETE MASONRY UNITS
   E) CONCRETE MASONRY GROUT MIX DESIGN (SUBMIT TO TESTING/INSPECTION AGENCY)
   F) STRUCTURAL STEEL AND MISC. METALS

2. SEE SPECIFICATIONS FOR OTHER SUBMITTALS AND SUBMITTAL PROCEDURE.

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DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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1843 Iron Point Rd #140
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tel: 916.415.6554
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CONSULTANT

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STRUCTURAL ENGINEERS, INC.
1505 MERIDIAN AVE, SUITE B PHONE 408.978.1970
SAN JOSE, CALIFORNIA 95125 FAX 408-267-7919
WWW.AKHSE.COM AKH JOB M19-034

REGISTERED PROFESSIONAL ENGINEER
TIM D. HYDE
No. S3260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE
POOL EQUIP. BLDG.
STRUCTURAL NOTES &
MATERIAL GRADES

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
△		
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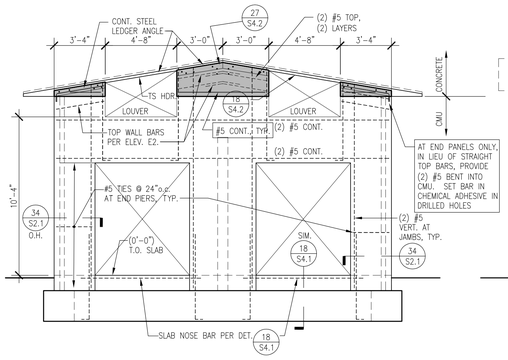
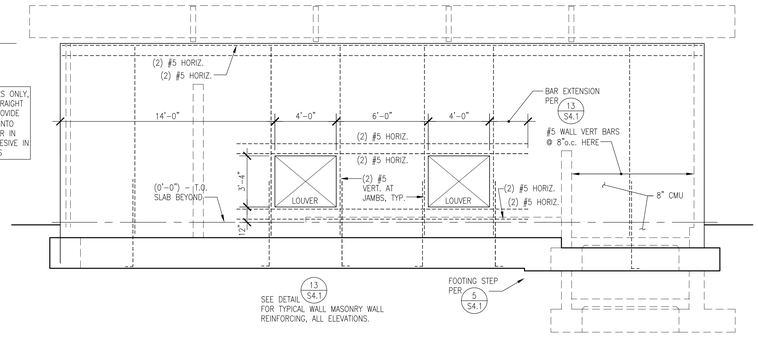
DRAWN BY: TDH, JJQ
CHECKED BY: TDH
DATE ISSUED: 03/13/2020
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: S1.1

DRAWING NAME: P:\Verde Design\M19-034 Chavez HS Pool\Dwgs\Structural\S1.1 PEB Structural Notes.dwg
PLOT DATE: 04-13-20 PLOTTED BY: jose



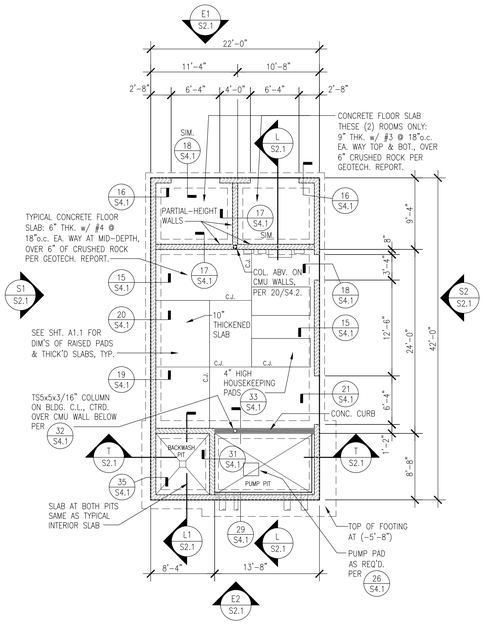
E1 EXTERIOR WALL ELEVATION - END

SCALE: 1/4" = 1'-0"



S1 EXTERIOR WALL ELEVATION - SIDE

SCALE: 1/4" = 1'-0"



A FOUNDATION PLAN

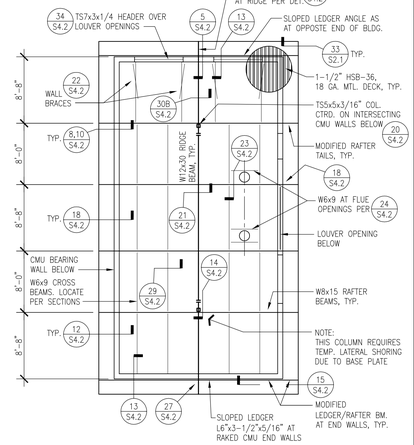
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. TOP OF NORMAL FLOOR SLAB IS AT DATUM (0'-0").
2. TOP OF FOOTING IS AT (-1'-0") U.N.O.
3. FIRST (BOTTOM) COURSE OF ALL CMU WALLS SHALL BE INVERTED OPEN-END BOND-BEAM UNITS. TOP OF FOOTINGS RECEIVING CMU SHALL BE ROUGHENED TO 1/8" FULL AMPLITUDE FOR FULL WIDTH OF MASONRY UNITS.
4. C.J. INDICATES 1" DEEP HAND-TOOLED CONTROL JOINT IN FLOOR SLAB.

LEGEND:

- DENOTES 8" WIDE CMU WALL
- DENOTES 12" WIDE CMU WALL BELOW 8" WIDE CMU WALL
- DENOTES RAISED CONCRETE CURB (SHADED)



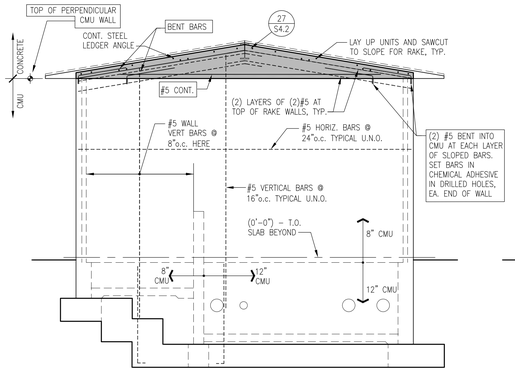
B ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

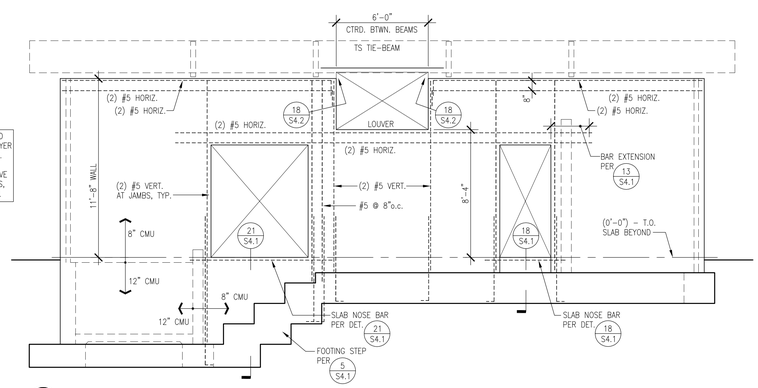
1. METAL ROOF DECK ATTACHMENT:
PUDDLE WELDS (PW) SHALL BE 3/4"ø PUDDLE WELDS (1/2" EFF. DIAMETER). PROVIDE (5) PW PER 36" WIDE SHEET TO ALL PERPENDICULAR SUPPORTS & PW @ 12"o.c. TO ALL PARALLEL SUPPORTS.
SIDE-SEAMS SHALL BE CONNECTED WITH BUTTON PUNCH OR VSC @ 12"o.c.
VSC = VERCO SIDELAP CONNECTION MADE WITH VERCO PUNCHLOK TOOL.

2. METAL DECKING SHALL BE LOCATED SUCH THAT ALL INTENDED CONTACTS PARALLEL TO DECK FLUTES THAT ARE TO RECEIVE DECK WELDING SHALL BE ALIGNED WITH FLUTES. WHERE FLUTES CANNOT BE ALIGNED WITH SUPPORTS, USE DET.



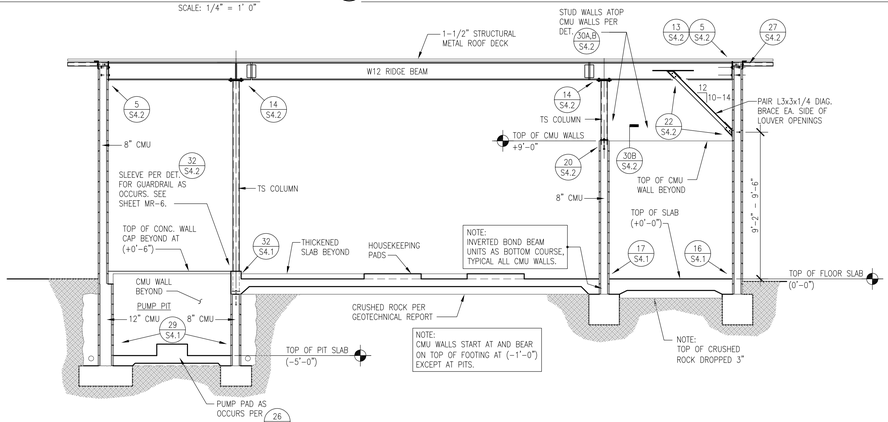
E2 EXTERIOR WALL ELEVATION - END

SCALE: 1/4" = 1'-0"



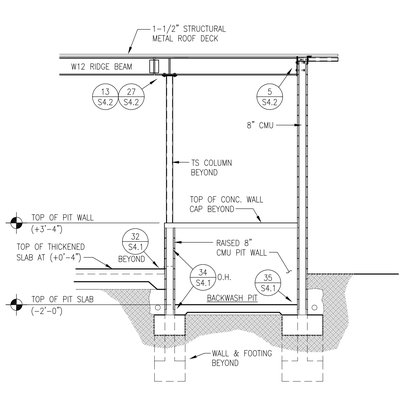
S2 EXTERIOR WALL ELEVATION - SIDE

SCALE: 1/4" = 1'-0"



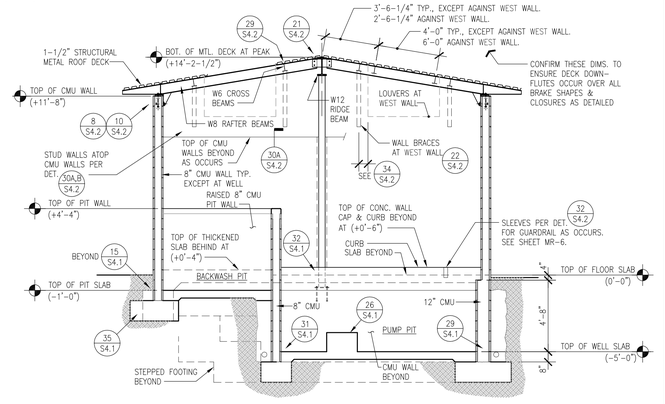
L-L LONGITUDINAL BLDG. SECTION

SCALE: 1/4" = 1'-0"



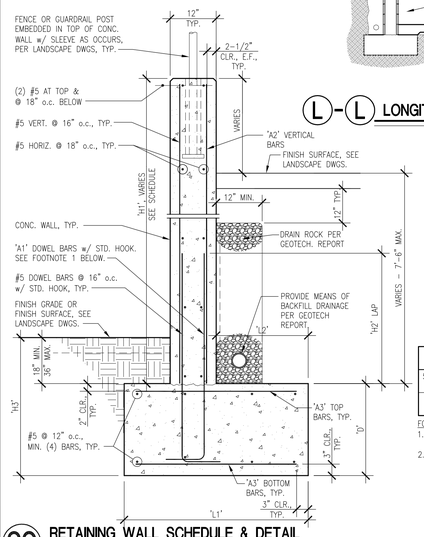
L1 PARTIAL LONGIT. BLDG. SECTION

SCALE: 1/4" = 1'-0"



T-T TRANSVERSE BLDG. SECTION

SCALE: 1/4" = 1'-0"



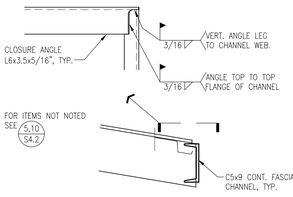
CANTILEVERED CONCRETE RETAINING WALL SCHEDULE

H1	H2	H3	L1	L2	D	A1 BARS[1]	A2 BARS[2]	A3 BARS
5.5' TO 7.5'	45°	36"	4'-0"	2'-0"	18"	#5 @ 16" o.c.	#5 @ 16" o.c.	#5 @ 16" o.c.
9' TO 11'	45°	54"	6'-6"	3'-3"	18"	#5 @ 16" o.c.	#5 @ 16" o.c.	#5 @ 16" o.c.

FOOTNOTES:
1. IN LIEU OF "A2" BARS, CONTRACTOR HAS THE OPTION TO CONTINUE "A1" BARS UP INTO FULL HEIGHT OF WALL.
2. FOR WALLS WITH "H" = 18" OR LESS, SEE TALL CURBS ON LANDSCAPE DRAWINGS.

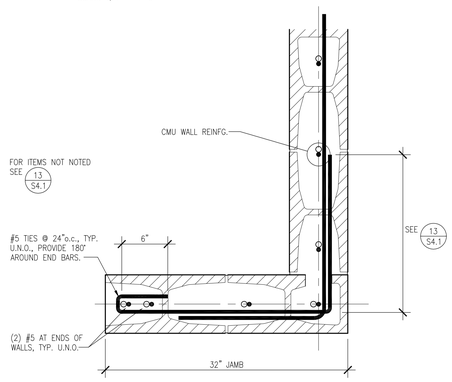
29 RETAINING WALL SCHEDULE & DETAIL

3/4" = 1'-0"



33 CONT. C5 FASCIA TO CLOSURE L6 CONN.

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



34 WALL-END REINFG. AT END PIERS

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

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REGISTERED PROFESSIONAL ENGINEER
No. 53260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE

POOL EQUIP BLDG. FOUNDATION & ROOF FRAMING PLANS, ELEVATIONS & SECTIONS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

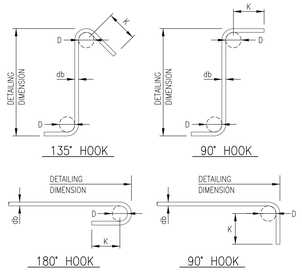
SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
JJQ, TDH	TDH
DATE ISSUED: 03/13/2020	SCALE: AS NOTED

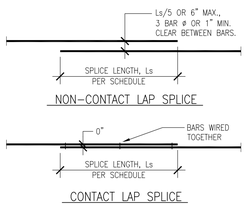
PROJ. NO. 1910900-1211

SHEET NO. S2.1



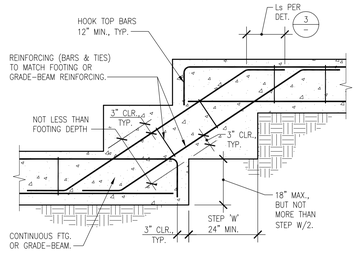
STANDARD HOOKS			
BAR SIZE	"D" IN	180° HOOKS "K"	90° HOOKS "K"
#3	2-1/4"	2-1/2"	4-1/2"
#4	3"	2-1/2"	6"
#5	3-3/4"	2-1/2"	7-1/2"
#6	4-1/2"	3"	9"
#7	5-1/4"	3-1/2"	10-1/2"
#8	6"	4"	12"

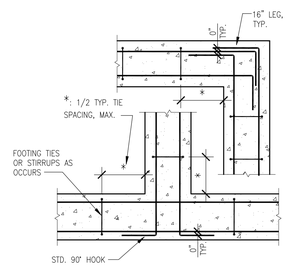
STIRRUP AND TIE HOOKS				
BAR SIZE	"D" IN	180° HOOKS "K"	135° HOOKS "K"	90° HOOKS "K"
#3	1-1/2"	2-1/2"	3"	3"
#4	2"	2-1/2"	3"	3"
#5	2-1/2"	2-1/2"	3-3/4"	3-3/4"
#6	4-1/2"	3"	4-1/2"	9"

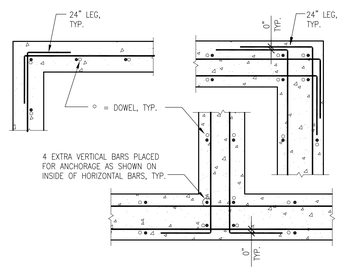


REBAR LAP SPLICE LENGTHS (Ls)			
BAR SIZE	HARD ROCK (REG. WT.) CONCRETE CLASS B SPLICE TYP., U.N.O.	CONCRETE TOP BARS (SEE NOTE 1)	GROUTED MASONRY (CMU)
#3	16"	19"	27"
#4	19"	25"	36"
#5	36"	47"	45"
#6	43"	56"	54"
#7	63"	81"	63"
#8	72"	93"	72"
#9	81"	105"	–
#10	90"	116"	–
#11	98"	128"	–

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS, IN SAME POUR AS BARS (AS IN DEEP BEAM OR FOOTING POURS, ETC.).
2. STAGGER LAPS IN SUCCESIVE PARALLEL BARS IN SLABS AND WALLS A DISTANCE EQUAL TO THE REQUIRED LAP SPLICE LENGTH, BUT NOT LESS THAN 24" (ALONG LENGTH OF BARS).
3. ALL LAP SPLICES SHALL BE CONTACT OR NON-CONTACT TYPE, AS SHOWN.
4. INCREASE SCHEDULED LAP LENGTHS BY 30% WHEN IN LIGHT WEIGHT CONCRETE.



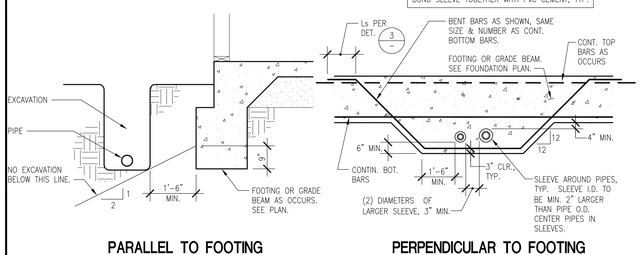




1 TYPICAL REBAR BENDS AND HOOKS

NO SCALE

NOTE: AT EXIST. PIPES, INSTALL SCHEDULE 40 PVC PIPE SLEEVE OVER EXIST. PIPE. CUT THE PIPE SLEEVE IN HALF IN ORDER TO INSTALL & BOND SLEEVE TOGETHER WITH PVC CEMENT, TYP.



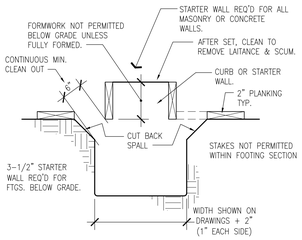
PARALLEL TO FOOTING — PERPENDICULAR TO FOOTING

3 TYPICAL REBAR LAP SPLICES

NO SCALE

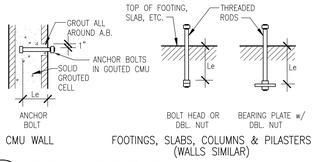
FOUNDATIONS - MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ENGINEER, SUBJECT TO THE APPROVAL OF THE OFFICE OF THE STATE ARCHITECT. IN SUCH CASE, THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.



ANCHOR BOLT DIAMETER (ø)	MINIMUM ANCHOR BOLT EMBEDMENT, Le (1) IN TOP OF CONCRETE & MASONRY (CMU) COLUMNS & PILASTERS	IN CONCRETE FOOTINGS, SLABS & WALLS	IN MASONRY (CMU) WALLS
3/8"	6"	4"	4"
1/2"	7"	5"	5-1/2"
5/8"	8"	5"	5-1/2"
3/4"	10"	6"	5-1/2"
7/8"	10"	7"	8" (2)
1" – 1-1/4"	12"	10"	–

FOOTNOTES:
(1) MIN. EMBEDMENT, U.N.O. SEE OTHER DETAILS FOR HOLDOWNS & SPECIAL BOLTS.
(2) 12" WALLS ONLY. NOT ALLOWED IN 8" WALLS.



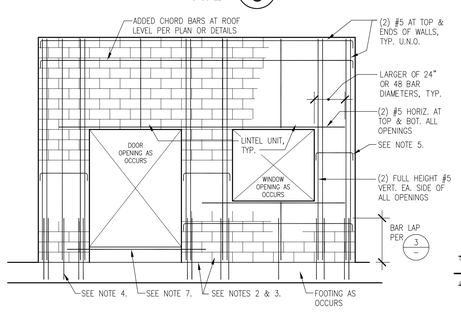
CMU WALL — FOOTINGS, SLABS, COLUMNS & PILASTERS (WALLS SIMILAR)

5 TYPICAL FOOTING STEPS

NO SCALE

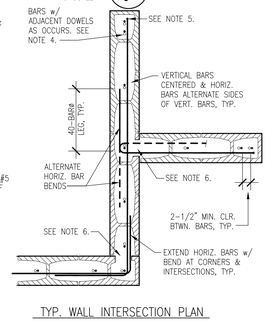
6 TYP. FOOTING INTERSECTION REBAR

NO SCALE



7 TYP. WALL INTERSECTION REBAR

3/4" = 1'-0"



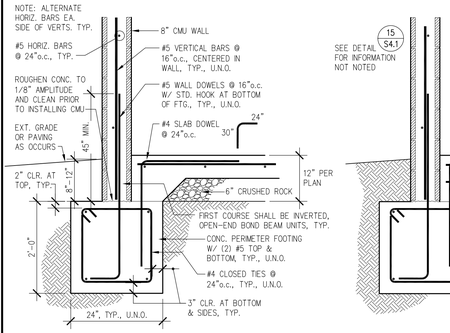
TYP. WALL INTERSECTION PLAN

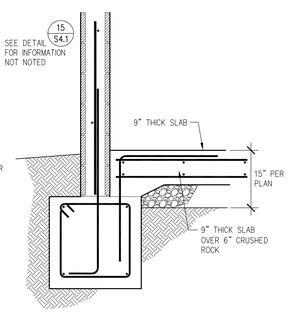
TYP. CMU WALL NOTES

1. USE DOUBLE-OPEN-END UNITS, TYP. USE SINGLE-OPEN-END UNITS AT WALL ENDS, CORNERS AND JAMBS OF OPENINGS.
2. BOTTOM COURSE SHALL BE INVERTED BOND BEAM UNITS, TYP. U.N.O.
3. ROUGHEN TOP OF FOOTING TO FULL 1/8" AMPLITUDE BELOW FULL WIDTH OF MASONRY UNITS, TYP.
4. PROVIDE FOOTING DOWELS TO MATCH SIZE & LOCATION OF EVERY VERTICAL WALL BAR, TYP.
5. PROVIDE 90° STD. HOOK TURNED DOWN AT ENDS OF ALL HORIZONTAL BARS NOT AT WALL INTERSECTIONS.
6. BREAK OUT FACE-SHELL AT INTERSECTIONS TO ALLOW HORIZONTAL BARS & GROUT TO PASS FREELY THROUGH.
7. PROVIDE SLAB NOSE BARS AT DOOR OPENINGS IN EXTERIOR WALLS PER OTHER DETAILS.

8 TYP. PIPES AND EXCAVATIONS NEAR FOOTINGS

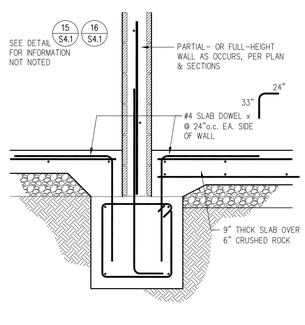
NO SCALE





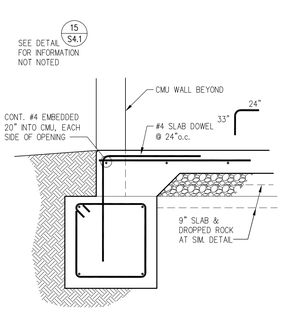
11 TYP. FOOTING TRENCHING & FORMING

NO SCALE



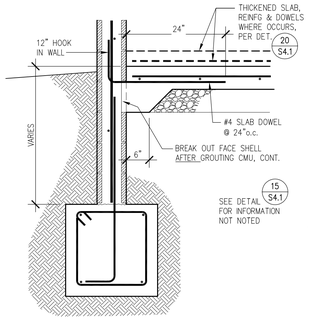
12 TYP. A.B. EMBEDMENTS

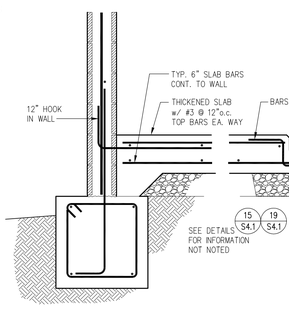
NO SCALE

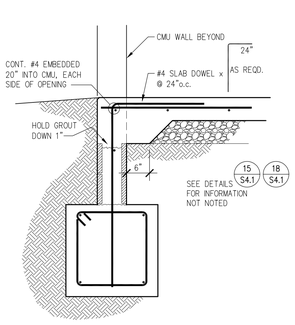


13 TYP. MASONRY WALL

NO SCALE







15 CMU WALL and FOOTING

3/4" = 1'-0"

16 CMU WALL and FOOTING

3/4" = 1'-0"

17 CMU WALL and FOOTING

3/4" = 1'-0"

18 SLAB AT WALL DOOR OPENINGS

3/4" = 1'-0"

19 CMU WALL at STEPPED FOOTING

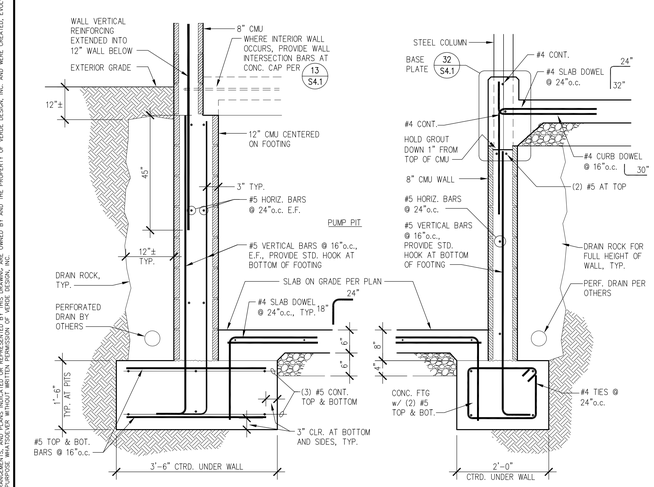
3/4" = 1'-0"

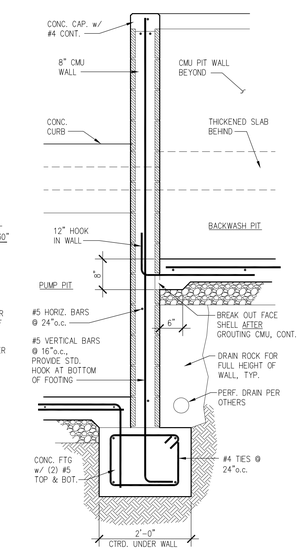
20 CMU WALL at THICKENED SLAB

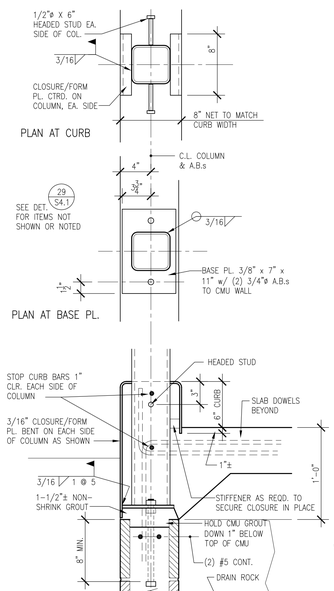
3/4" = 1'-0"

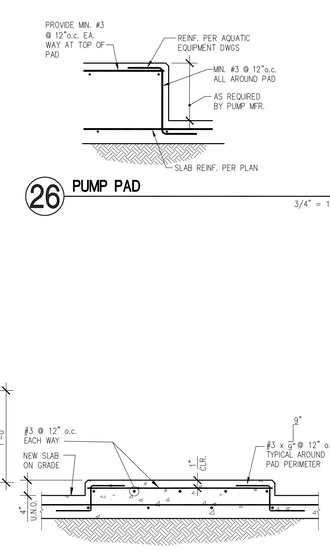
21 STEPPED FTG. AT WALL OPENING

3/4" = 1'-0"



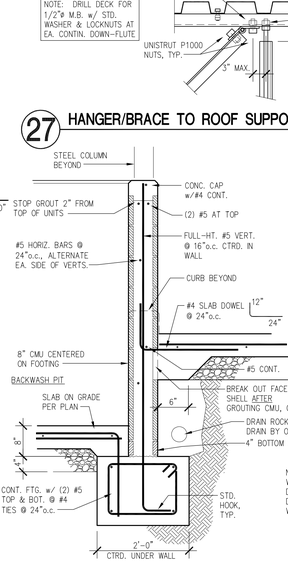






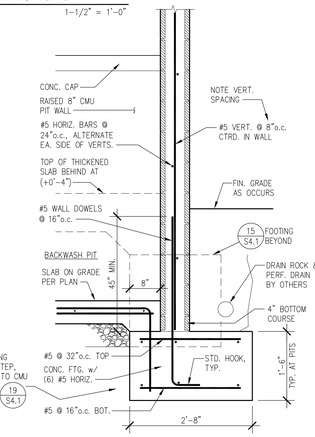
26 PUMP PAD

3/4" = 1'-0"



27 HANGER/BRACE TO ROOF SUPPORT CONNECTIONS

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



29 CMU WALLS & FOOTINGS AT WELL

3/4" = 1'-0"

31 PUMP/BACKWASH PIT WALL & FTG.

3/4" = 1'-0"

32 COLUMN AT CMU WALL

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

33 TYP. HOUSEKEEPING PAD

3/4" = 1'-0"

34 BACKWASH PIT WALL & FOOTING

3/4" = 1'-0"

35 BACKWASH PIT WALL & FOOTING

3/4" = 1'-0"

DRAWING NAME: P:\Verde Design\M19-034 Chavez HS Pool\Dwgs\Structural\S4.1 PEB Structural Details.dwg
PLOT DATE: 04-13-20 PLOTTED BY: jose

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
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SAN JOSE, CALIFORNIA 95125 FAX 408-267-7919
WWW.AKHSE.COM AKH JOB M19-034

REGISTERED PROFESSIONAL ENGINEER
No. 53260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE
POOL EQUIP. BLDG. STRUCTURAL FOUNDATION & CMU WALL DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

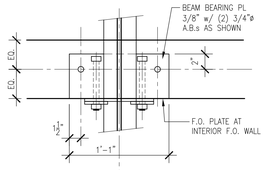
PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

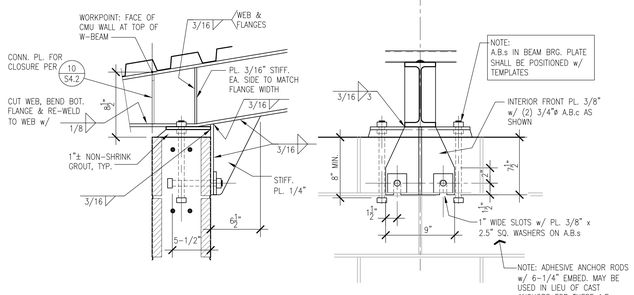
DRAWN BY JJQ, TDH
CHECKED BY TDH
DATE ISSUED 03/13/2020
SCALE AS NOTED
PROJ. NO. 1910900-1211
SHEET NO. S4.1

OUTSIDE



PLAN VIEW

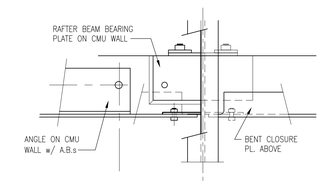
INSIDE



8 RAFTER BEAM AT CMU WALL

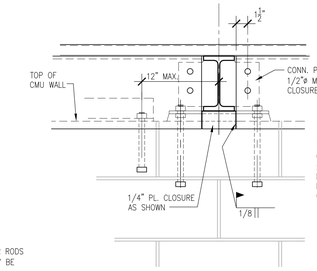
1-1/2" = 1'-0"

INSIDE



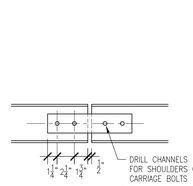
PLAN VIEW

OUTSIDE

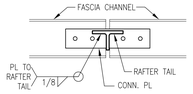


10 CMU WALL CLOSURE AT BEAMS

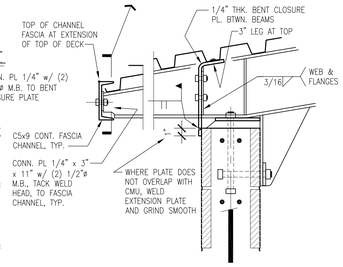
1-1/2" = 1'-0"

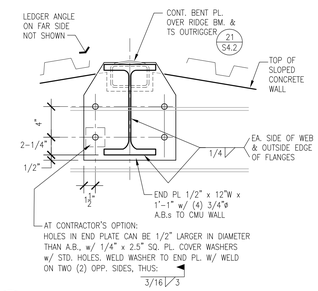


CONN. PL. TO FASCIA



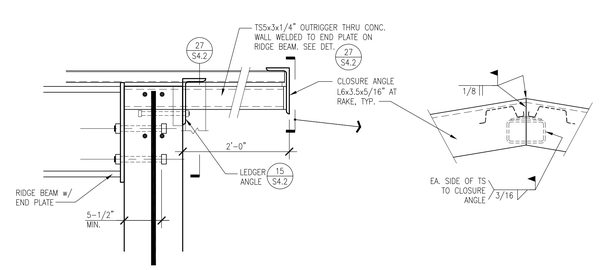
CONN. PL. TO RAFTER TAIL

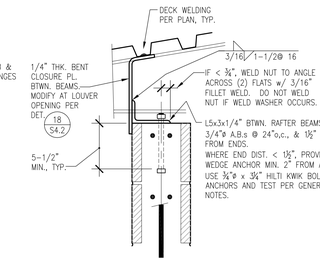


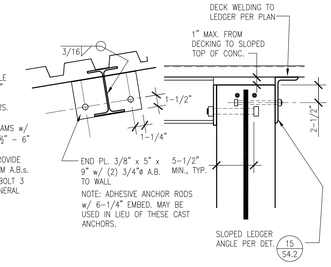


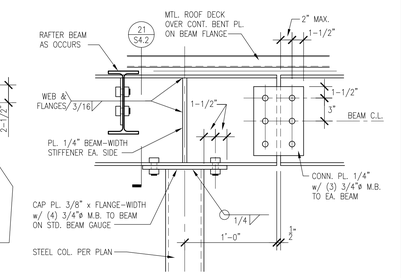
5 RIDGE BEAM AT RAKE WALL

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



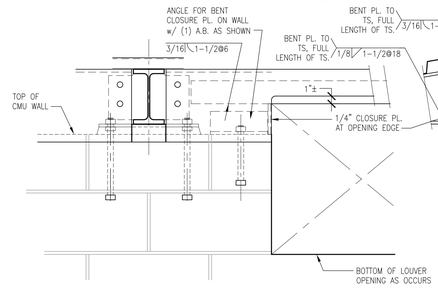






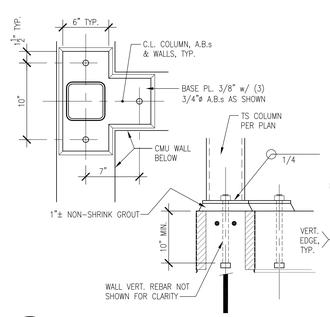
12 CMU WALL CLOSURE BTWN. BEAMS

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



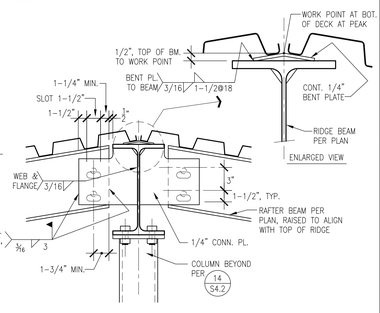
13 BEAM TO RAKE WALL

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



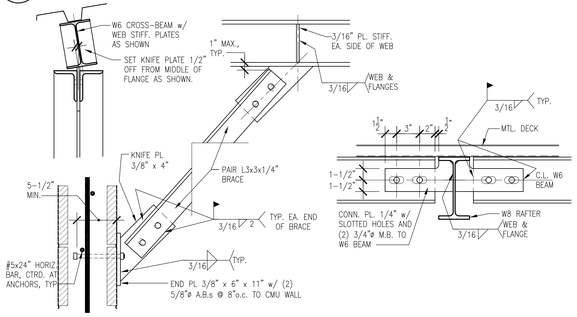
14 BEAM-COLUMN CONNECTION

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



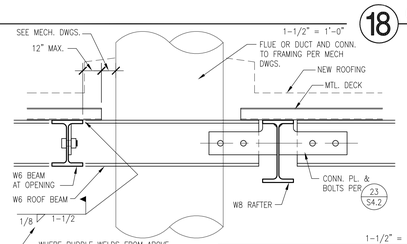
15 MODIFIED LEDGER / END RAFTER AT RAKE WALL

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



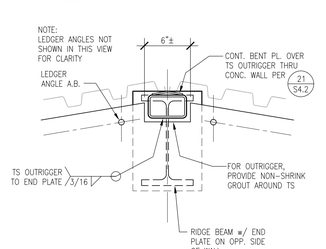
18 CLOSURE BTWN. RAFTER BEAMS OVER LOUVER OPENINGS

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



20 COLUMN BASE ON CMU WALL

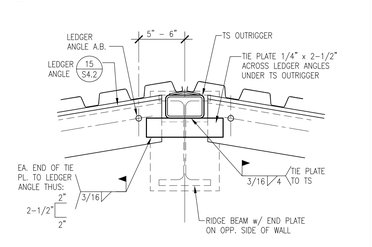
1" = 1'-0"



VIEW AT CONCRETE WALL

21 RAFTER BEAMS TO RIDGE BEAM

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



VIEW AT LEDGER ANGLES ON CONC. WALL

22 WALL BRACE

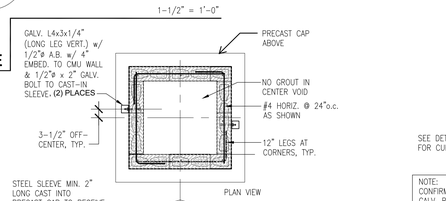
1-1/2" = 1'-0"

23 BEAM CONNECTION

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

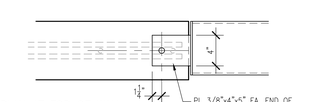
24 ROOF OPENING AT FLUE

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

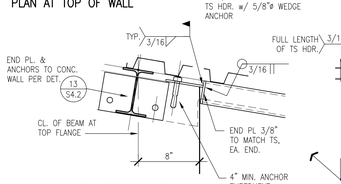


27 OUTRIGGER & LEDGER ANGLES AT RAKE WALL

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

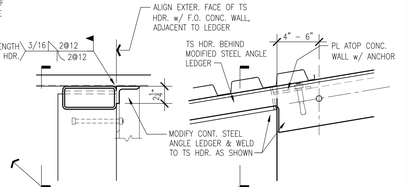


PLAN AT TOP OF WALL



VIEW FROM INSIDE

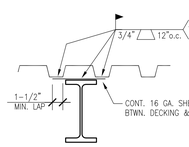
NOTE: TS HEADER AT HIGH CORNER OF LOUVER OPENING SHOWN. LOW CORNER OPP. HAND, SIMILAR



VIEW FROM OUTSIDE

29 TYP. DECK TO PARALLEL SUPT.

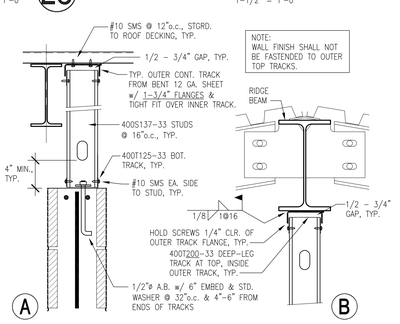
1-1/2" = 1'-0"



NOTE: USE THIS WHEN DECK DOWN-FLUTES DO NOT ALIGN WITH BEAM FLANGE, TYP.

30 STUD WALL ATOP CMU WALLS

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



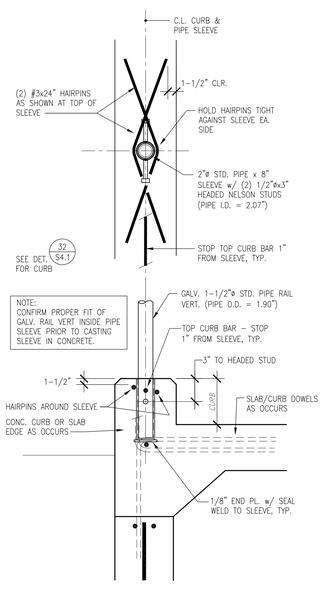
NOTE: WALL FINISH SHALL NOT BE FASTENDED TO OUTER TOP TRACKS.

31 ENTRY COLUMNS

1/2" = 1'-0"

32 TYP. GUARDRAIL SLEEVE

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



34 FRAMING OVER LOUVER OPENING

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
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1843 Iron Point Rd #140
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STAMP

CONSULTANT

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WWW.AKHSE.COM
PHONE 408.978.1970
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AKH JOB M19-034

REGISTERED PROFESSIONAL ENGINEER
TIM D. HYE
No. 53260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE

POOL EQUIP. BLDG. STRUCTURAL ROOF FRAMING & CMU WALL DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

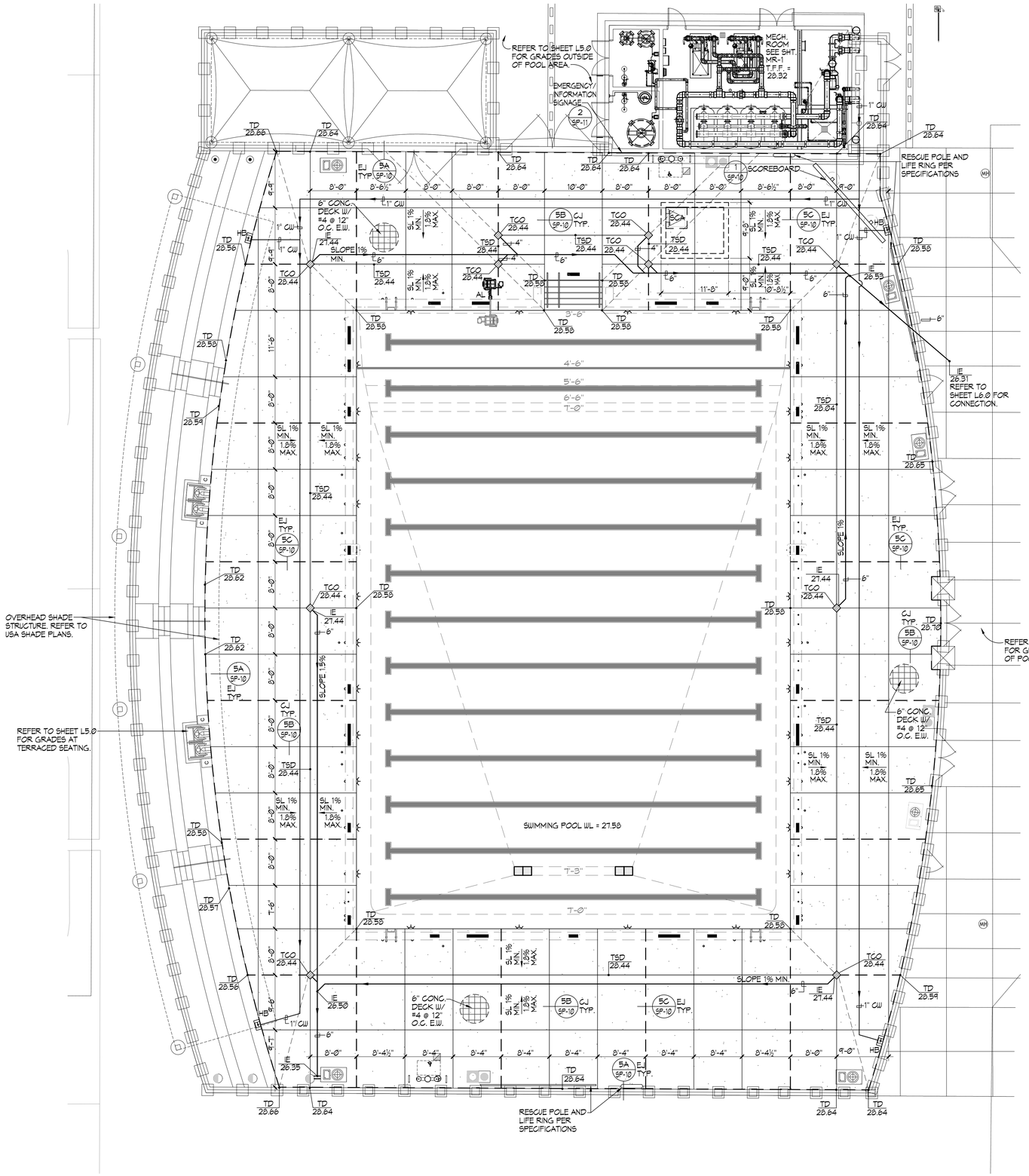
PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
TDH	TDH
DATE ISSUED	SCALE
03/13/2020	AS NOTED
PROJ. NO.	
1910900-1211	
SHEET NO.	
S4.2	



SWIMMING POOL DATA

SURFACE AREA	=	8,085 SQ. FT.
PERIMETER	=	374 FT.
DEPTH	=	3-6" TO 7-3"
VOLUME	=	405,570 GAL.
6 HR TURNOVER	=	1,127 GPM

LEGEND

- - EJ - -	=	EXPANSION JOINT — 5A SP-10 / 5C SP-10
CJ	=	CONTROL JOINT — 5B SP-10
TSD	=	TOP OF SLOT DRAIN — 1 SP-11
TCO	=	TOP OF CLEAN-OUT — 1 SP-11
AL	=	ACCESSIBLE LIFT — 1 SP-7
HB	=	HOSE BIBB — 5 SP-8
CW	=	COLD WATER
SL	=	SLOPE DIRECTION
WL	=	WATERLEVEL
TD	=	TOP OF DECK
TFF	=	TOP OF FINISHED FLOOR
I.E.	=	INVERT ELEVATION
P.O.C.	=	POINT OF CONNECTION
SD	=	STORM DRAIN
◐	=	JUNCTION BOX

2 SP-11

NOTES:

1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH OWNER PRIOR TO INSTALLATION.
2. DECKS SHALL HAVE 1% MIN. SLOPE AND 1.8% MAX. SLOPE TO DRAINS.
3. ALL POOL DECKING SHALL BE NON-SLIP AND NON-ABRASIVE MEDIUM BROOM FINISH WITH MIN. 4 FOOT WIDTH TYP. NATURAL GRAY CONCRETE UNLESS OTHERWISE NOTED.
4. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND QUANTITY OF REQUIRED EXITS, DRINKING FOUNTAINS, AND SANITARY FIXTURES.
5. THE POOL CANNOT BE WITHOUT AN APPROVED POOL ENCLOSURE AT ANY TIME, INCLUDING DURING CONSTRUCTION AND INSTALLATION OF THE NEW POOL ENCLOSURE.

NORTH

1 **SWIMMING POOL DECK PLAN** 1/8"=1'-0"

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APP: 02-118018 INC:
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DATE: 01/19/2024

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1843 Iron Point Rd #140
Folsom, CA 95630
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LICENSED ARCHITECT — SCOTT J. FERRY — C-30022 REN 12/31/21 — STATE OF CALIFORNIA

CONSULTANT

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
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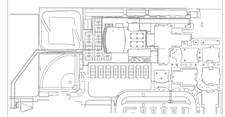

SHEET TITLE

SWIMMING POOL DECK PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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DRAWN BY	CHECKED BY
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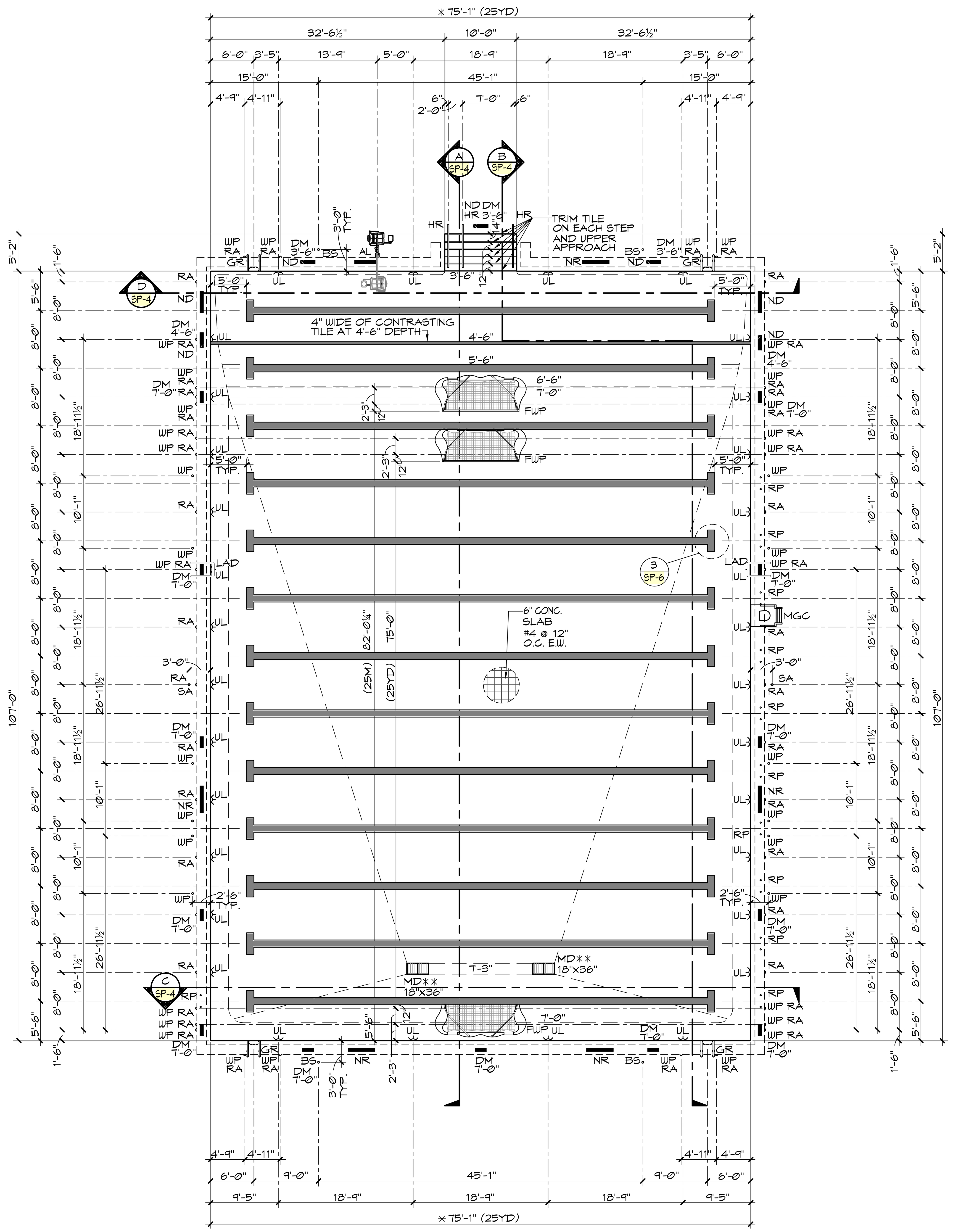
DATE ISSUED	SCALE
03/13/2020	1/8"=1'-0"
PROJ. NO.	
1910900-1211	
SHEET NO.	
DP-1	

SWIMMING POOL DECK PLAN



SWIMMING POOL DATA

SURFACE AREA	=	8,085 SQ. FT.
PERIMETER	=	374 FT.
DEPTH	=	3-6" TO 7'-3"
VOLUME	=	405,570 GAL.
6 HR TURNOVER	=	1,127 GPM

LEGEND

** MD	=	MAIN DRAIN	2 SP-8
GR	=	GRABRAIL	1 SP-8
DM	=	DEPTH MARKER	4 SP-6
NR	=	'NO RUNNING'	5 SP-6
ND	=	'NO DIVING'	5 SP-6, 6 SP-6
RA	=	ROPE ANCHOR	2 SP-7
RP	=	RACING PLATFORM	6 SP-7
BS	=	BACKSTROKE STANCHION	3 SP-7
WP	=	WATER POLO GOAL (STATIONARY)	9 SP-6
UL	=	UNDERWATER LIGHT	6 SP-9
MGC	=	MOVEABLE GUARD CHAIR	5 SP-7
AL	=	ACCESSIBLE LIFT	1 SP-7
SA	=	STANCHION ANCHOR	3 SP-7
FWP	=	FLOATING WATER POLO GOALS	7 SP-7
LAD	=	LADDER	4 SP-7
HR	=	HANDRAIL	7 SP-6

CERTIFICATION REQUIREMENTS

* THE CONTRACTOR SHALL RETAIN AN INDEPENDENT LICENSED SURVEYOR TO PROVIDE PROOF OF COMPLIANCE FOR REQUIRED POOL LENGTHS AS FOLLOWS: (RECOMMEND PATRELL ENG. GROUP (626) 335-4362)

SHORT COURSE-25YDS: (ALLOWS FOR TOUCH PADS AT ONE END) 75'-0 5/16" MIN.: 75'-1 3/16" MAX.

TOLERANCE AGAINST LENGT,H SHALL EXTEND IN A VERTICAL PLANE 0.3M (12") ABOVE AND 0.8M. (2'-7½") BELOW THE SURFACE OF THE WATER AT ALL POINTS OF BOTH END WALLS TYP. OF ALL COURSES.

THE INDEPENDENT LICENSED SURVEYOR SHALL FILL OUT, NOTARIZE AND FILE OFFICIAL CERTIFICATION FORM(S) WITH USA SWIMMING.

** CONTRACTOR SHALL RETAIN A LICENSED ENGINEER TO CERTIFY THE FIELD BUILT MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT.

NORTH

1 **SWIMMING POOL LAYOUT PLAN** ⅛"=1'-0"

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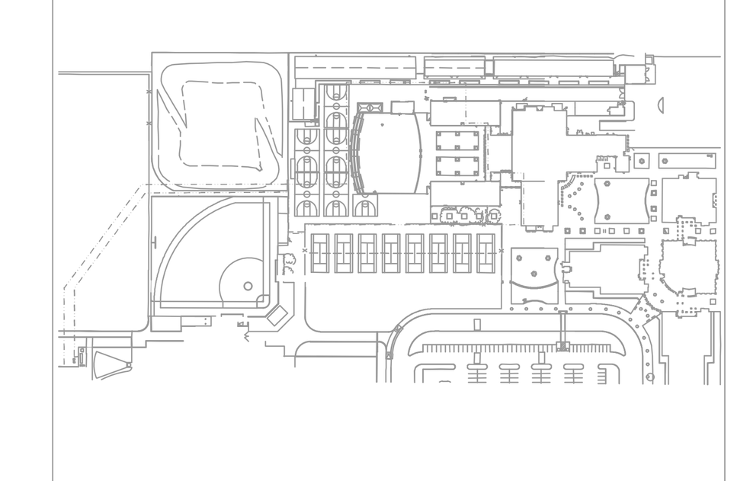

SHEET TITLE
SWIMMING POOL LAYOUT PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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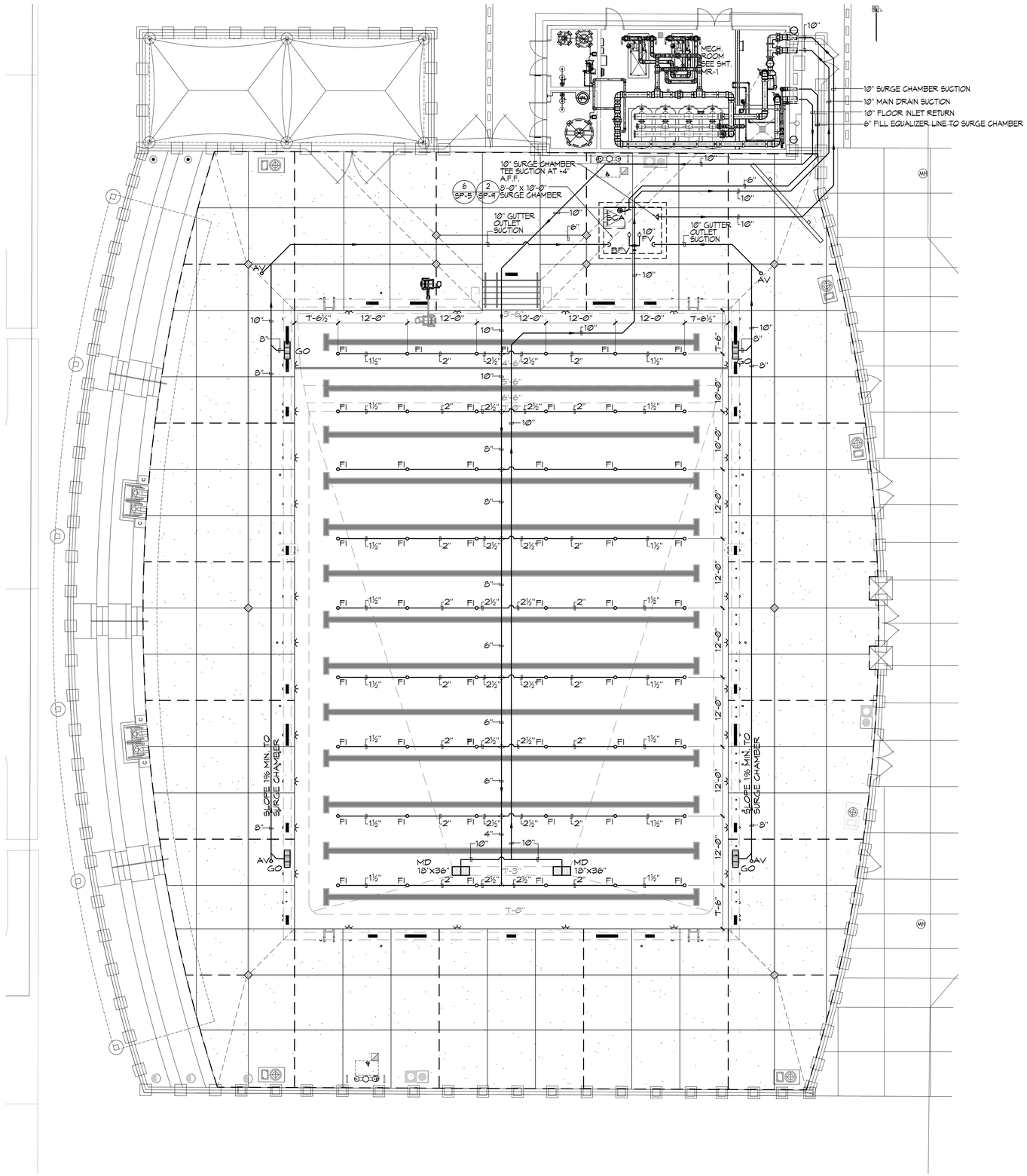
CHECKED BY: SJF
DATE ISSUED: 03/13/2020
SCALE: 1/8"=1'-0"
PROJ. NO.: 1910900-1211
SHEET NO.: SP-1

SWIMMING POOL LAYOUT PLAN



SWIMMING POOL DATA

SURFACE AREA	=	8,085 SQ. FT.
PERIMETER	=	374 FT.
DEPTH	=	3'-6" TO 7'-3"
VOLUME	=	405,570 GAL.
6 HR TURNOVER	=	1,127 GPM

SWIMMING POOL SURGE DATA

REQUIRED SURGE CAPACITY	=	8,085 GAL.
SURGE IN PERIMETER GUTTER	=	4,796 GAL.
SURGE IN GUTTER PIPING	=	972 GAL.
8' x 12' SURGE IN SURGE CHAMBER	=	2,996 GAL.
TOTAL SUPPLIED SURGE	=	8,764 GAL.

∴ 8,764 GAL. > 8,085 GAL. +8% OK

LEGEND

MD	=	MAIN DRAIN	2 SP-8
FI	=	FLOOR INLET	3 SP-8
GO	=	GUTTER OUTLET	6 SP-8
AV	=	AIR VENT	4 SP-8
SCA	=	SURGE CHAMBER ACCESS	5 SP-5
BFV	=	BUTTERFLY VALVE	3 SP-9
FV	=	FLOAT VALVE	

4 SP-9 NOTES:

1. PIPING ROUTES ARE SCHEMATIC IN NATURE AND SHOWN ON PLANS FOR CLARITY. CONTRACTOR SHALL ROUTE PIPING ACCORDINGLY TO MEET NOTED INVERT ELEVATIONS. REFER TO REFERENCED DETAIL FOR PIPE SPACING REQUIREMENTS.
2. ALL BELOW GRADE POOL PIPING SHALL BE SCHEDULE 40 PVC AND ALL ABOVE GRADE POOL PIPING SHALL BE SCHEDULE 80 PVC.
3. COORDINATE ALL PIPING WITH SITE AND BUILDING UTILITIES INCLUDING PIPING, CONDUITS / STRUCTURES AND THE LIKE. COORDINATE ROUTING OF PIPING THROUGH STRUCTURAL SLAB. ALL PIPING SHALL HAVE UNIFORM SLOPE IN ONE DIRECTION.
4. SURGE CHAMBER TEE SUCTION SHALL BE SET AT +6" A.F.F. MAINTAIN MAXIMUM SEPARATION BETWEEN SUCTION AND INFLUENT PIPING WITHIN THE SURGE CHAMBER.
5. EACH MAIN DRAIN SHALL BE EQUIPPED WITH HYDROSTATIC RELIEF VALVE PER RECOMMENDATIONS OF GEOTECHNICAL REPORT

1 **SWIMMING POOL PIPING PLAN**

⅛"=1'-0"

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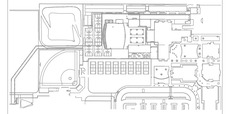

SHEET TITLE

SWIMMING POOL PIPING PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

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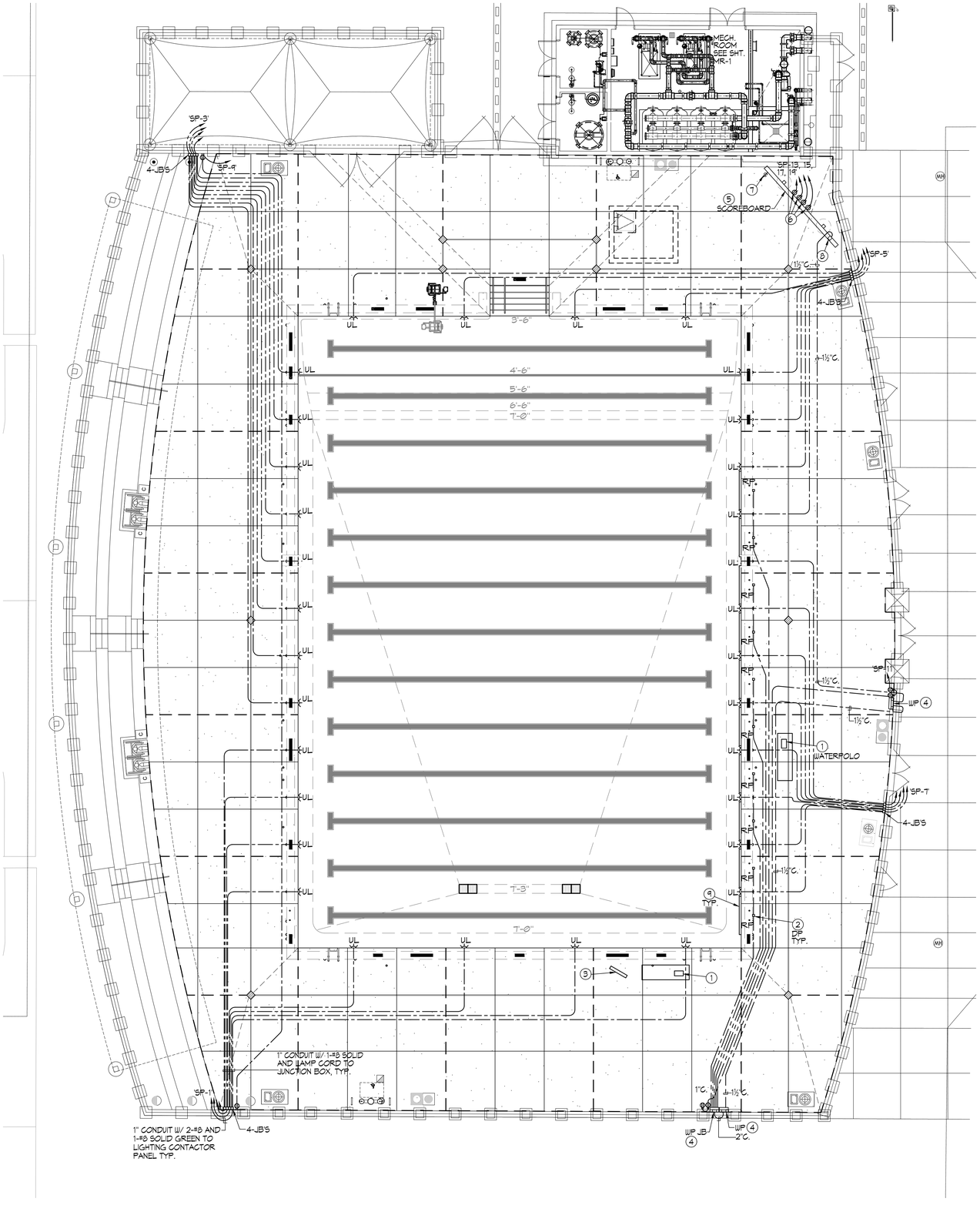
SHEET NO.
SP-2



NORTH

TIMING SYSTEM NOTES/EQUIPMENT

NOTE: THE CONTRACTOR SHALL SUPPLY AND INSTALL DECK PLATE BOXES, WALL PLATE BOXES, WALL PLATE JUNCTION BOXES, CONDUIT, WIRING, SCOREBOARD AND ALL TIMING EQUIPMENT AS SHOWN FOR THE 'COLORADO' TIME SYSTEM OR EQUAL.

TIMING SYSTEM

QTY	MODEL	DESCRIPTION
(1) 1	SPORTS TIMER	MULTI-SPORT TIMING/SCORING CONSOLE HARDWARE: MULTI-SPORT AQUATICS TIMING AND SCORING CONSOLE WITH CARRYING CASE. SPORT INSERTS TO INCLUDE SWIMMING, DIVING, WATER POLO AND PACE CLOCK. SYSTEM TO INCLUDE 15" FULL LCD DISPLAY, CD-RW DRIVE, UNLIMITED RACE/MEET STORAGE, EXTERNAL MOUSE AND KEYBOARD PORT AND BACKUP RECHARGEABLE SYSTEM. SOFTWARE: SWIMMING, DIVING, WATER POLO AND PACE CLOCK SOFTWARE SHALL BE PROVIDED. SWIMMING SOFTWARE SHALL BE CAPABLE OF STORED LAP AND CUMULATIVE SPLITS. SPLIT INFORMATION SHALL BE POSTED TO SCOREBOARD IN LAP OR CUMULATIVE FORMAT. SOFTWARE SHALL BE CAPABLE OF TIMING UP TO 10 LANES OF COMPETITION-NEAR AND FAR END. SOFTWARE SHALL HAVE TIMING CAPABILITY OF ONE TOUCHPAD WITH UP TO THREE BUTTON BACKUP AND RELAY TAKE-OFF PLATFORM. SWIMMING SOFTWARE SHALL OPERATE IN A POINT AND CLICK WINDOWS® ENVIRONMENT.
1	CABLE HARNESS	TEN-LANE ABOVE DECK TIMING HARNESS INCLUDES A TEN-LANE CABLE HARNESS AND ONE PUSHBUTTON PER LANE.
(9) 10	TP-92G	92"x22" TOUCHPAD. TOUCHPAD SHALL BE CONSTRUCTED OF STAINLESS STEEL TO PREVENT THE POSSIBILITY OF WARPING IN EXTREME HEAT.

TOUCHPAD CADDY

QTY	MODEL	DESCRIPTION
1	CART	TOUCHPAD CADDY FOR GUTTERHUNG TOUCHPADS. HOLDS UP TO TEN TOUCHPADS. SHALL ARRIVE ON SITE FULLY ASSEMBLED.

START SYSTEM

QTY	MODEL	DESCRIPTION
(3) 1	HORN START	ELECTRONIC START SYSTEM WITH WIRELESS MICROPHONE, WIRED MICROPHONE, VOLUME CONTROLS FOR AUXILIARY SPEAKERS & INDIVIDUAL LANE SPEAKERS, BUILT-IN EXTERNAL 360-DEGREE STROBE LIGHT WITH CAPABILITY TO ADD REMOTE EXTERNAL STROBE. AC POWER CAPABILITY FOR MEET OPERATION IN THE EVENT THE BATTERY SYSTEM FAILS. LED BATTERY LEVEL INDICATION LIGHT, ABILITY TO DISABLE RECALL FUNCTION.
8	LANE SPEAKER	INDIVIDUAL 6 WATT LANE SPEAKER FOR START SYSTEM
1	AUX. SPEAKER	40 WATT SPEAKER WITH 100' OF CABLE
1	BRACKET	BACKSTROKE FLAGPOLE MOUNTING BRACKET FOR START SYSTEM.
1	CABLE	THIRTY FOOT JUMPER CABLE

IN-DECK

QTY	MODEL	DESCRIPTION
(2) 10	LANE DECK PLATE	INDIVIDUAL LANE TITANIUM DECK PLATE. PLATE SHALL HAVE CONNECTIONS FOR (1) TOUCHPAD, (3) BACKUP BUTTON TIMING, RELAY TAKE-OFF PLATFORM AND INDIVIDUAL LANE SPEAKER. PLATES SHALL BE MOUNTED PERMANENTLY TO THE DECK ON 4"x4"x6" PVC JUNCTION BOXES (CARLON E98NNR).
(4) 2	WALL PLATE	WALL PLATE, TIMING WALL PLATE: 12"x12"x6" WALL BOX IN CONC. PEDESTAL, TWO (2) TOTAL. WALL BOX WITH WALL PLATE JUNCTION BOX 12"x12"x6" ONE (1) TOTAL.

WATER POLO

QTY	MODEL	DESCRIPTION
1	WATER POLO	WATER POLO PACKAGE TO INCLUDE HAND-HELD GAME CLOCK START/STOP/HORN SWITCH, HAND-HELD SHOT CLOCK START/STOP/RESET SWITCH AND ABOVE DECK SHOT CLOCK DATA CABLES

SCOREBOARD

QTY	MODEL	DESCRIPTION
(5) 1	SCOREBOARD (1 SP-10)	EIGHT-LANE OUTDOOR LED SCOREBOARD: EACH MODULE INCLUDES: EIGHT, 10-INCH LED DIGITS. (CHOICE OF RED OR AMBER DIGITS) BEAM MOUNTING HARDWARE SCOREBOARD FUNCTIONS: DISPLAY LANE, PLACE, AND TIME FOR LANES 1-10 ONE LINE TO DISPLAY HOME/GUEST SCORES ONE LINE TO DISPLAY LENGTHS/ RECORD TIME (6) FOUR (4) DEDICATED 20 AMP CIRCUIT TO BE TERMINATED INTO SCOREBOARD LOAD CENTER (7) MASTER ON/OFF SCOREBOARD SWITCH WITH PILOT LIGHT, W/ LOCKABLE ENCLOSURE (8) SCOREBOARD DATA CONNECTION BOX CONNECT TO TIMING/WALL BOX LOCATION W/ 1½" PVC CONDUIT.
1	ID PANEL	NON-ILLUMINATED FACILITY IDENTIFICATION PANEL WITH ARTWORK.

PACE CLOCK/WATER POLO SHOT CLOCK/REACTION TIMER

QTY	MODEL	DESCRIPTION
2	TIMER	MULTI-USE OUTDOOR TIMER WITH 7" OUTDOOR LED DIGITS PACE CLOCK FUNCTIONS: MULTI-SPORT TIMING/SCORING CONSOLE CAPABLE OF DOWNLOADING WORKOUTS FROM HY-TEK WORKOUT MANAGER. UNIT CAPABLE OF OPERATING AS A STAND-ALONE PACE CLOCK. FUNCTIONS INCLUDE COUNT UP, WORKOUT PROGRAM, TIME OF DAY. WATER POLO SHOT CLOCK FUNCTIONS: OPERATES IN CONJUNCTION WITH MULTI-SPORT TIMING/SCORING CONSOLE TO ACT AS A PORTABLE BATTERY-OPERATED WATER POLO SHOT CLOCK. CAN ALSO ACT AS STAND-ALONE SHOT CLOCK OPERATED BY SWITCHES ON THE SIDE OF THE UNIT. REACTION TIMER FUNCTIONS: OPTIMIZES START REACTION TIMES AND PERFECTS RELAY EXCHANGES WHEN USED IN CONJUNCTION WITH TOUCHPAD AND/OR RELAY JUDGING PLATFORM
RJP		RELAY JUDGING PLATFORM TO BE USED IN CONJUNCTION WITH MULTI-USE OUTDOOR TIMER.

LEGEND

UL	=	UNDERWATER LIGHT — 6 SP-9
JB	=	JUNCTION BOX — 5 SP-9, 6 SP-9
RP	=	RACING PLATFORM — 6 SP-7
WP	=	WALL PLATE — 7 SP-9
DP	=	DECK PLATE — 2 SP-10
WP JB	=	WALL PLATE JUNCTION BOX — SIM. 7 SP-9

(1) SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN — 1/8"=1'-0"

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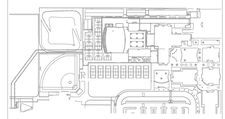

SHEET TITLE

SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

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DATE ISSUED: 03/13/2020	SCALE: 1/8"=1'-0"
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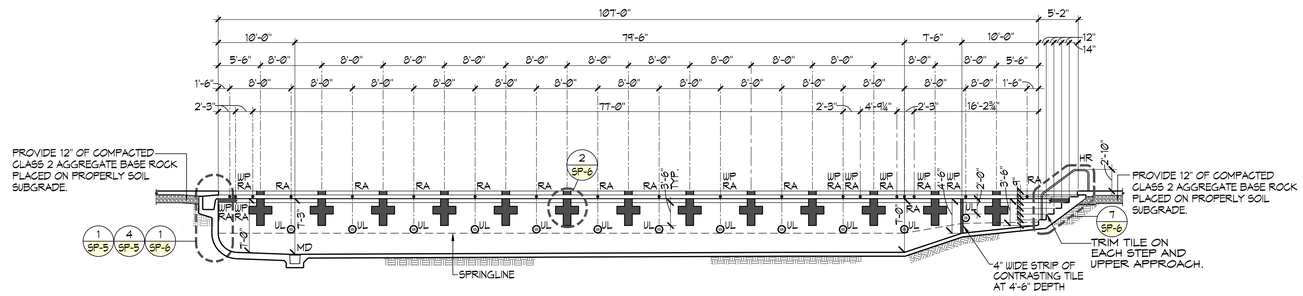
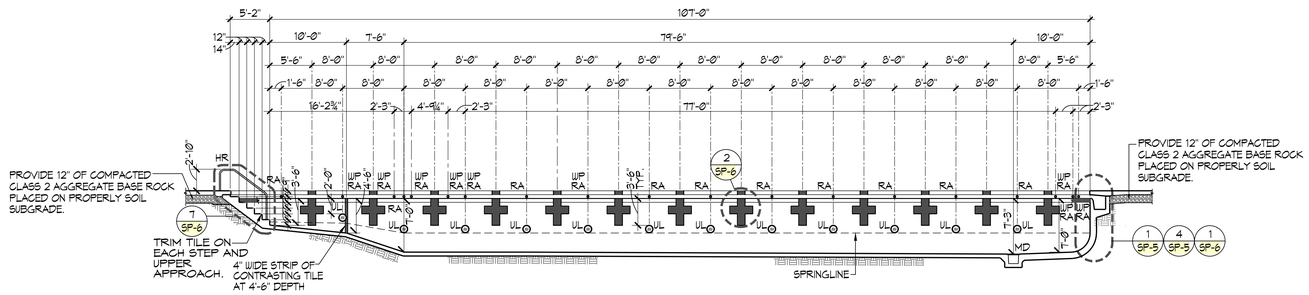
SHEET NO.: SP-3	



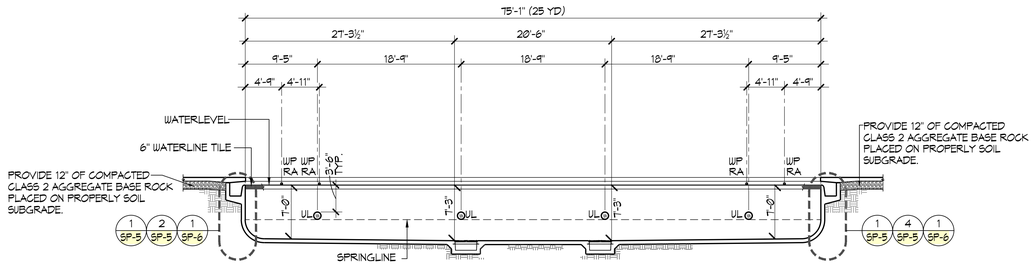
A SWIMMING POOL SECTION

1/8"=1'-0"



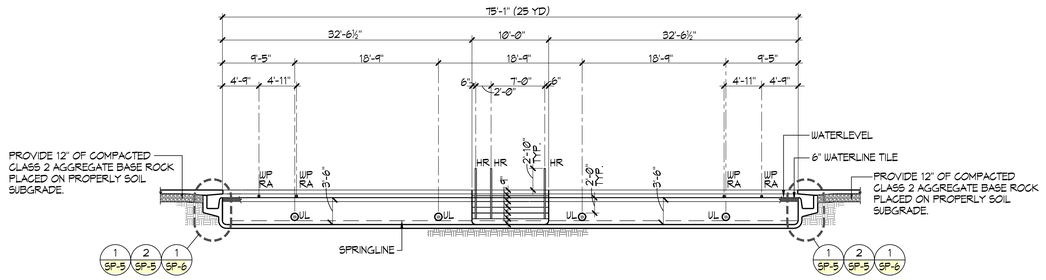
B SWIMMING POOL SECTION

1/8"=1'-0"



C SWIMMING POOL SECTION

1/8"=1'-0"



D SWIMMING POOL SECTION

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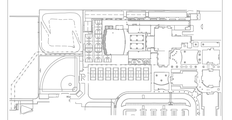

SHEET TITLE

SWIMMING POOL SECTIONS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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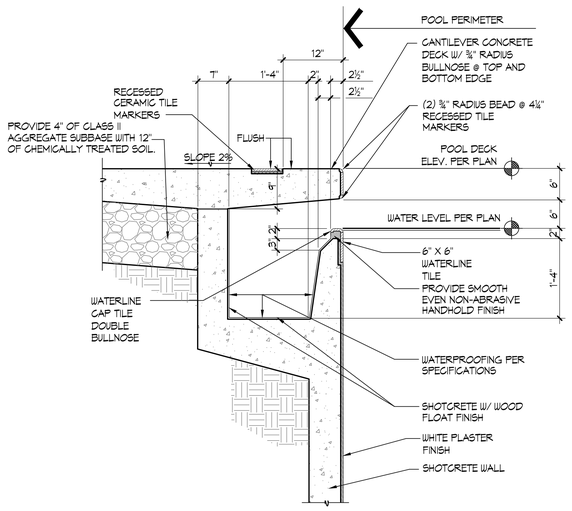
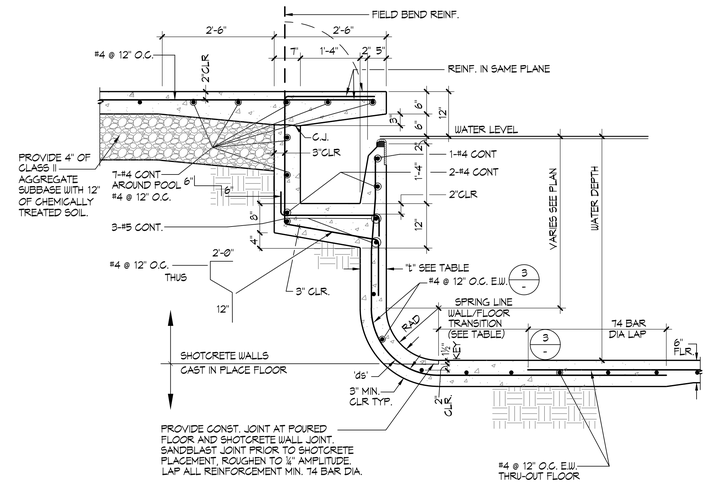
SP-4

SWIMMING POOL SECTIONS



1 TYPICAL GUTTER DETAIL 1"=1'-0"



2 POOL WALL 3'-6" TO 5'-0" ¾"=1'-0"

REINFORCEMENT TABLE

WATER DEPTH	"t"	"ds"	RADIUS	VERTICAL REINF.	HORIZONTAL REINF.	TRANSITION TO FLOOR REINF. BEYOND END RADIUS
3'-6" TO 5'-0"	6"	3"	6" TO 18"	#4 @ 12" O.C.	#4 @ 12" O.C.	24"
5'-1" TO 7'-3"	11"	8"	18" TO 2'-6"	#4 @ 6" O.C.	#4 @ 6" O.C.	24"

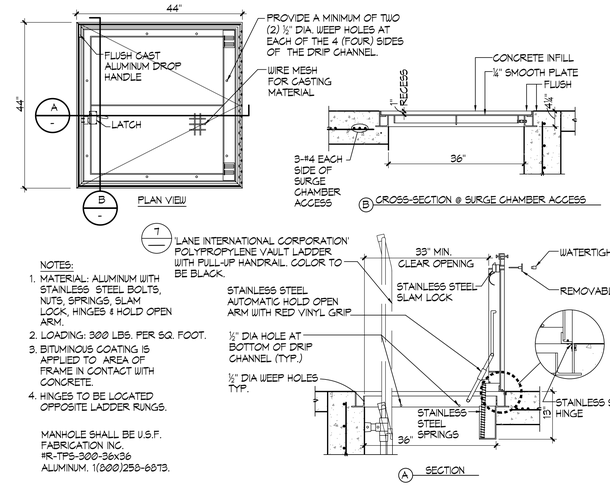
CONCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS
   POOL = 3,000 PSI
   POOL DECK = 4,000 PSI WITH MAX. WATER CEMENT RATIO OF 0.50
2. CONTINUOUS INSPECTION BY AN D.S.A. APPROVED INSPECTOR IS REQUIRED OF ALL CONCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II.
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".
5. CONCRETE MIX DESIGNS SHALL BE BASED UPON CBC SECTION 1904A2.
6. CONCRETE SHALL BE TESTED AND INSPECTED PER SECTION CBC 1705A.3 AND 1913A.1.
7. REMOVAL OF FORMS SHALL COMPLY WITH ACI-14, 26.11.
8. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 74 BAR DIA.

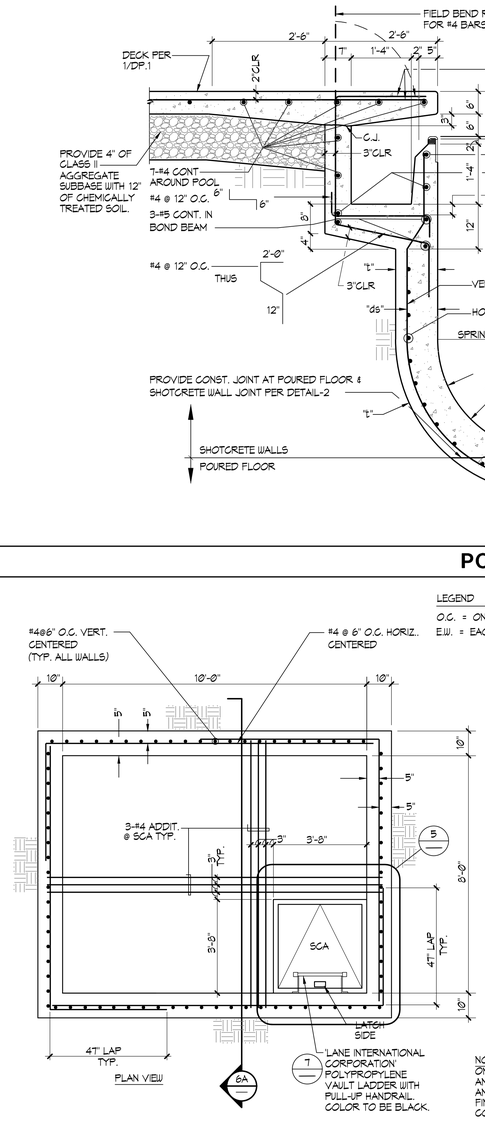
SHOTCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS
   POOL WALLS = 3000 PSI.
2. CONTINUOUS INSPECTION BY AN D.S.A. APPROVED INSPECTOR IS REQUIRED OF ALL SHOTCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II.
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE ⅜".
5. SHOTCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1908A.2.
6. SHOTCRETE SHALL BE TESTED AND INSPECTED PER SECTIONS 1705A.3 AND 1908A.5, 1908A.10.
7. ANCHOR BOLTS, ANCHORS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
8. ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN MINIMUM 2" CLEAR NON-CONTACT SPLICES.
9. THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
10. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 74 BAR DIA.

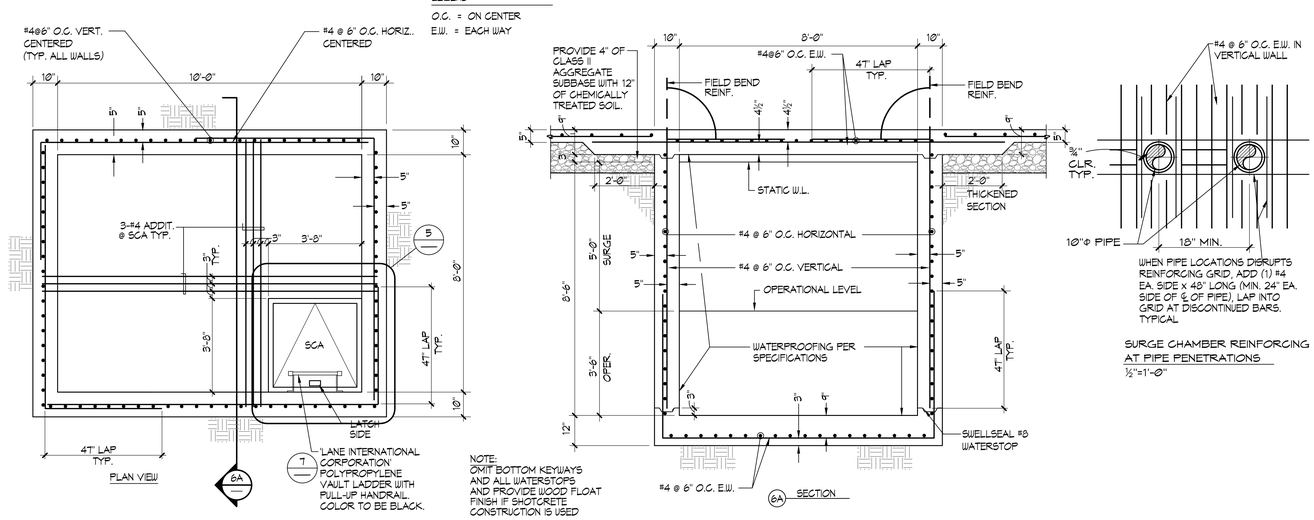
3 REINFORCEMENT TABLE



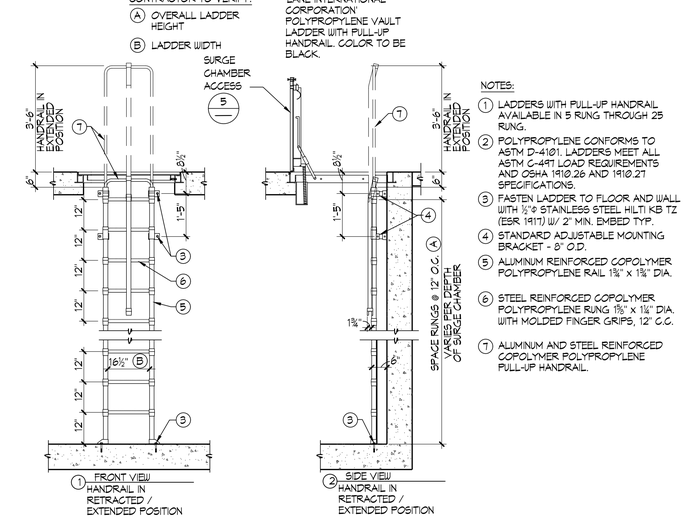
5 SURGE CHAMBER ACCESS COVER ¾"=1'-0"



4 POOL WALL 5'-1" TO 7'-3" ¾"=1'-0"



6 SURGE CHAMBER ½"=1'-0"



7 SURGE CHAMBER ACCESS LADDER ½" = 1'-0"

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1843 Iron Point Rd #140
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CONSULTANT

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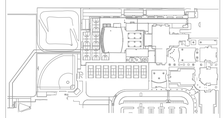
760.438.8400

KEYMAP



SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

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NFC	SJF
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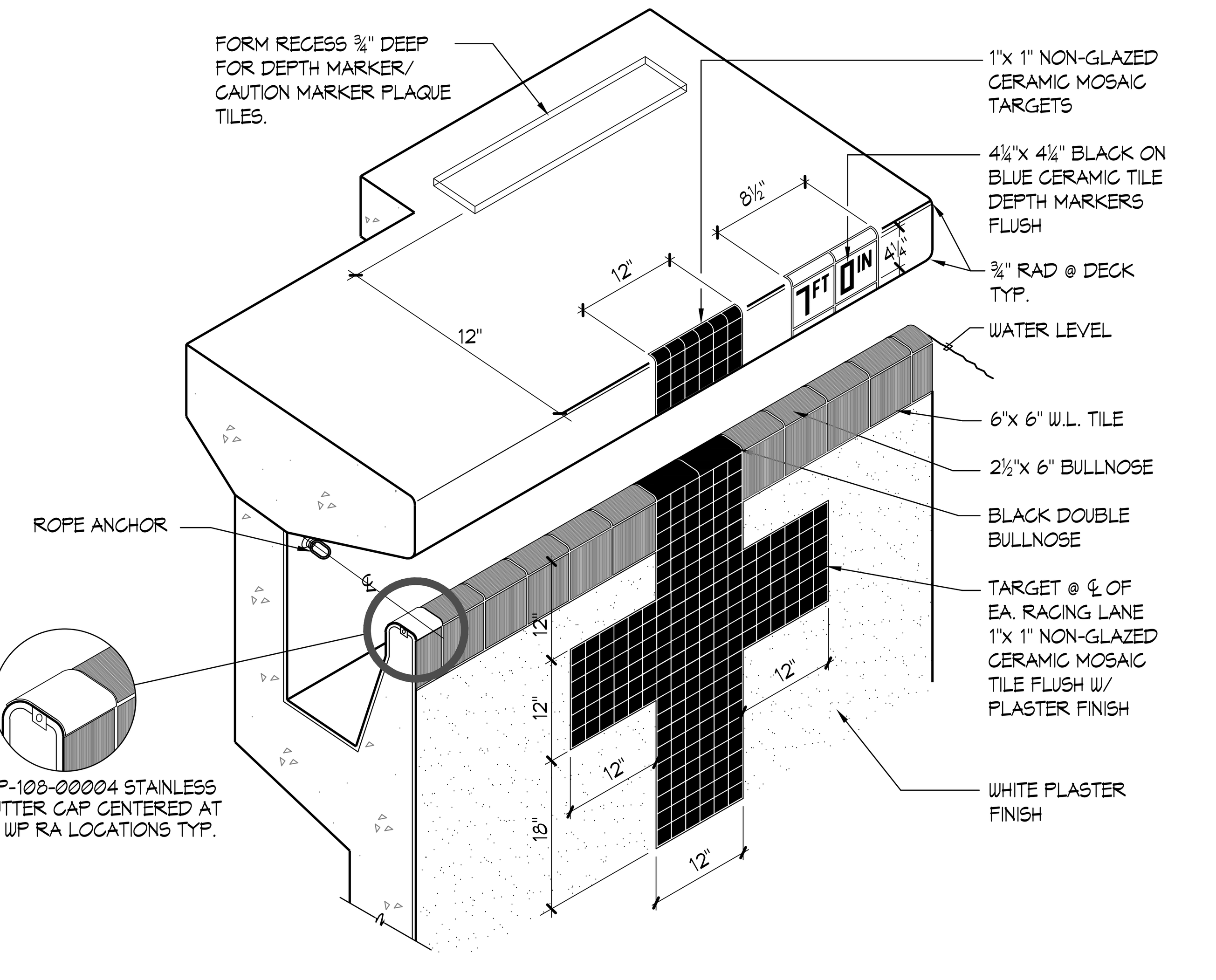
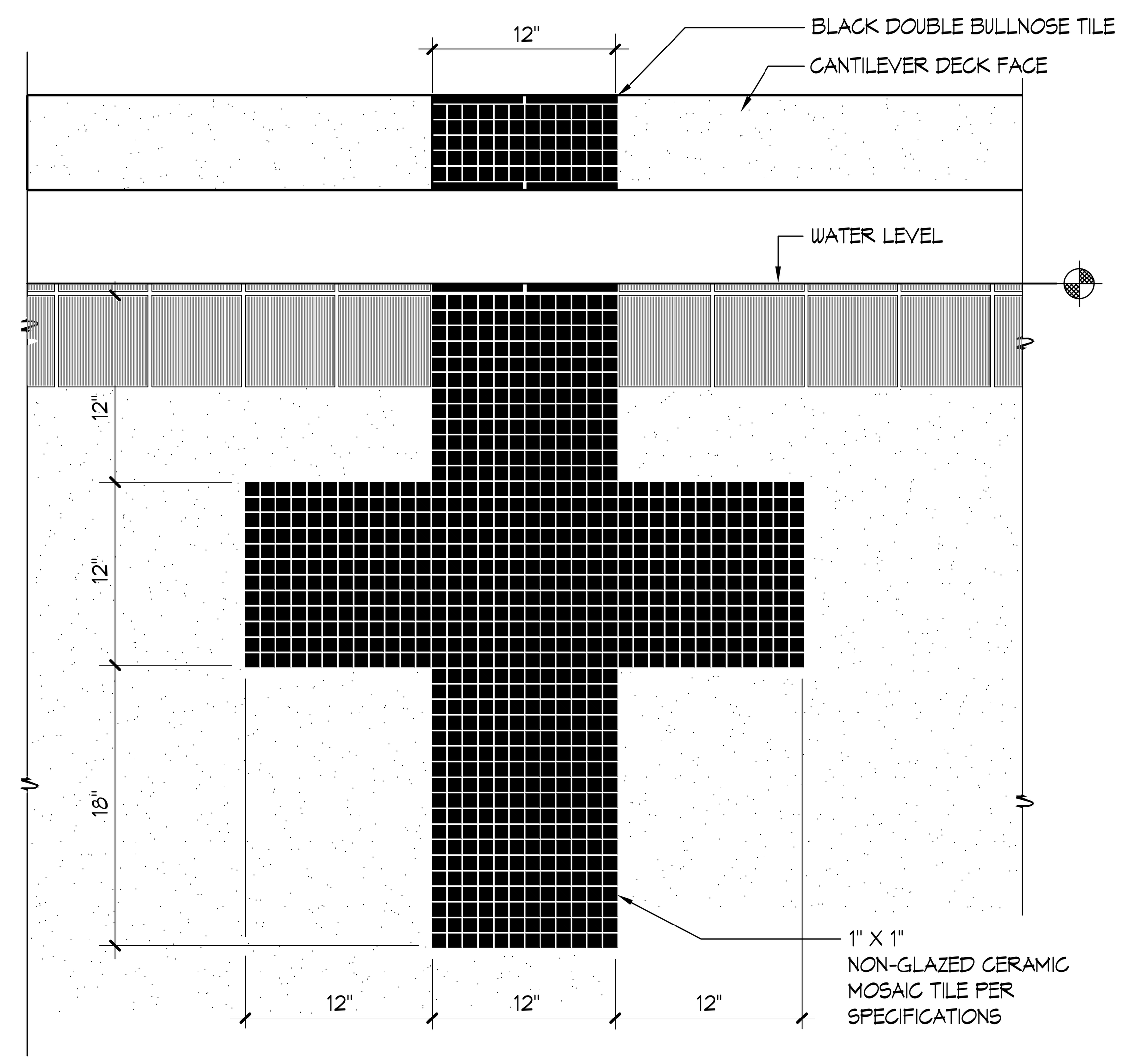
PROJ. NO. 1910900-1211

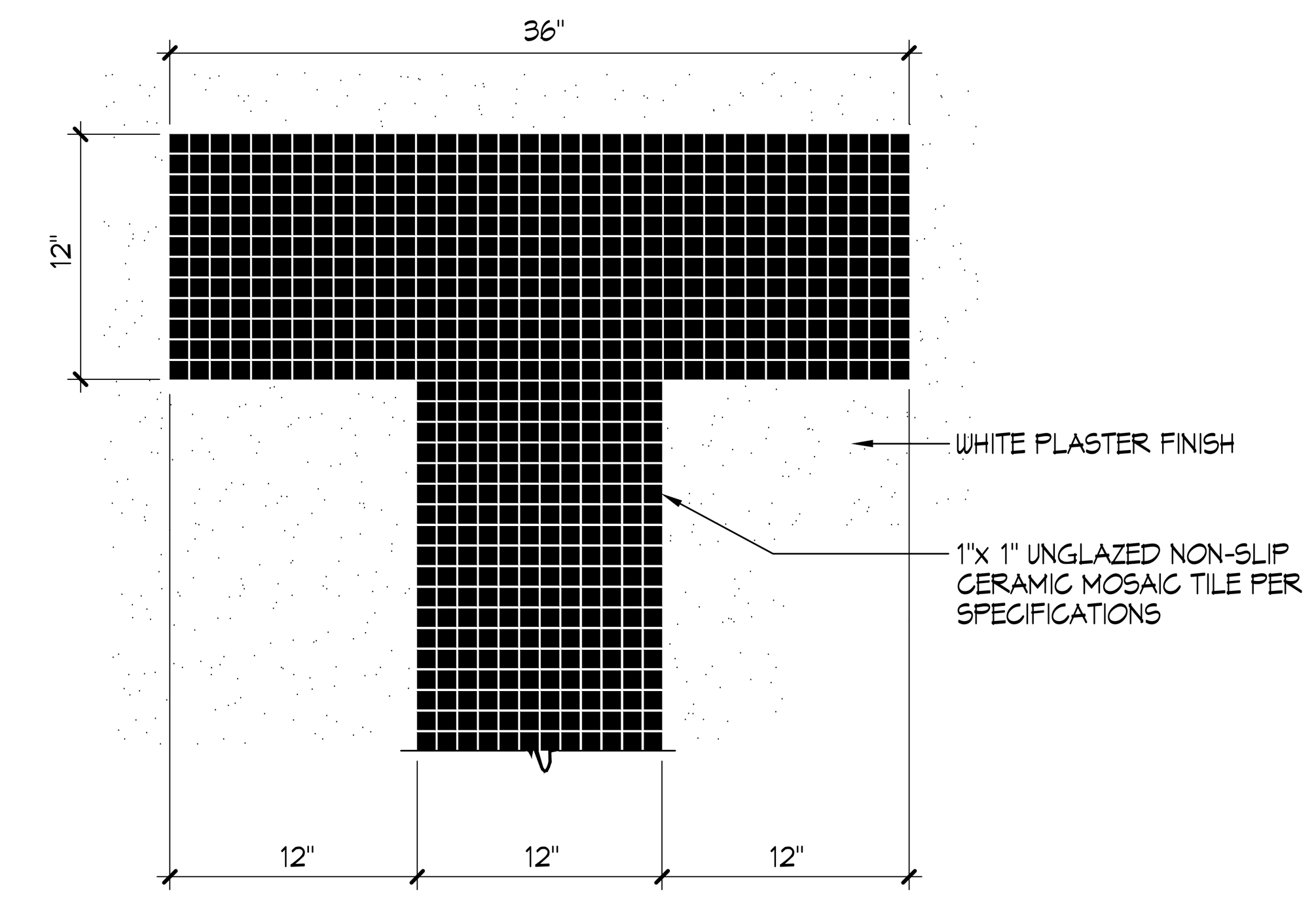
SHEET NO. SP-5



1 DEEP GUTTER PERSPECTIVE NO SCALE

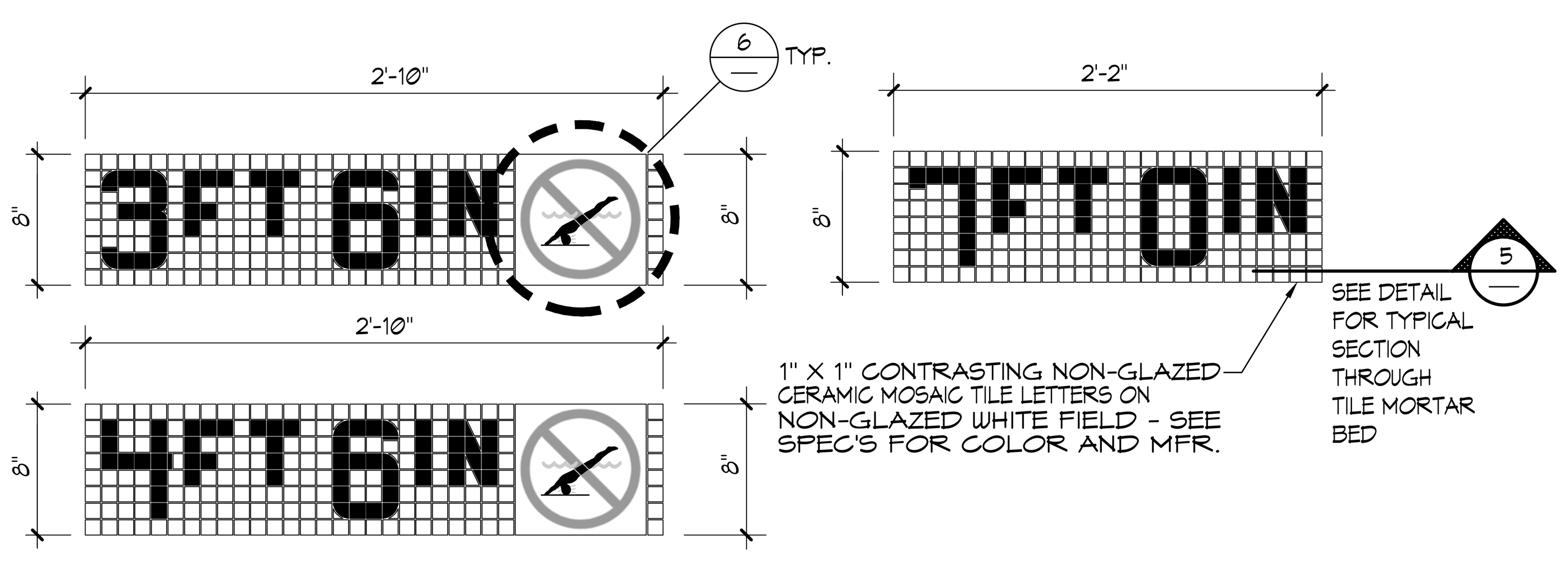


2 END WALL TARGET 1½" = 1'-0"



PLAN VIEW

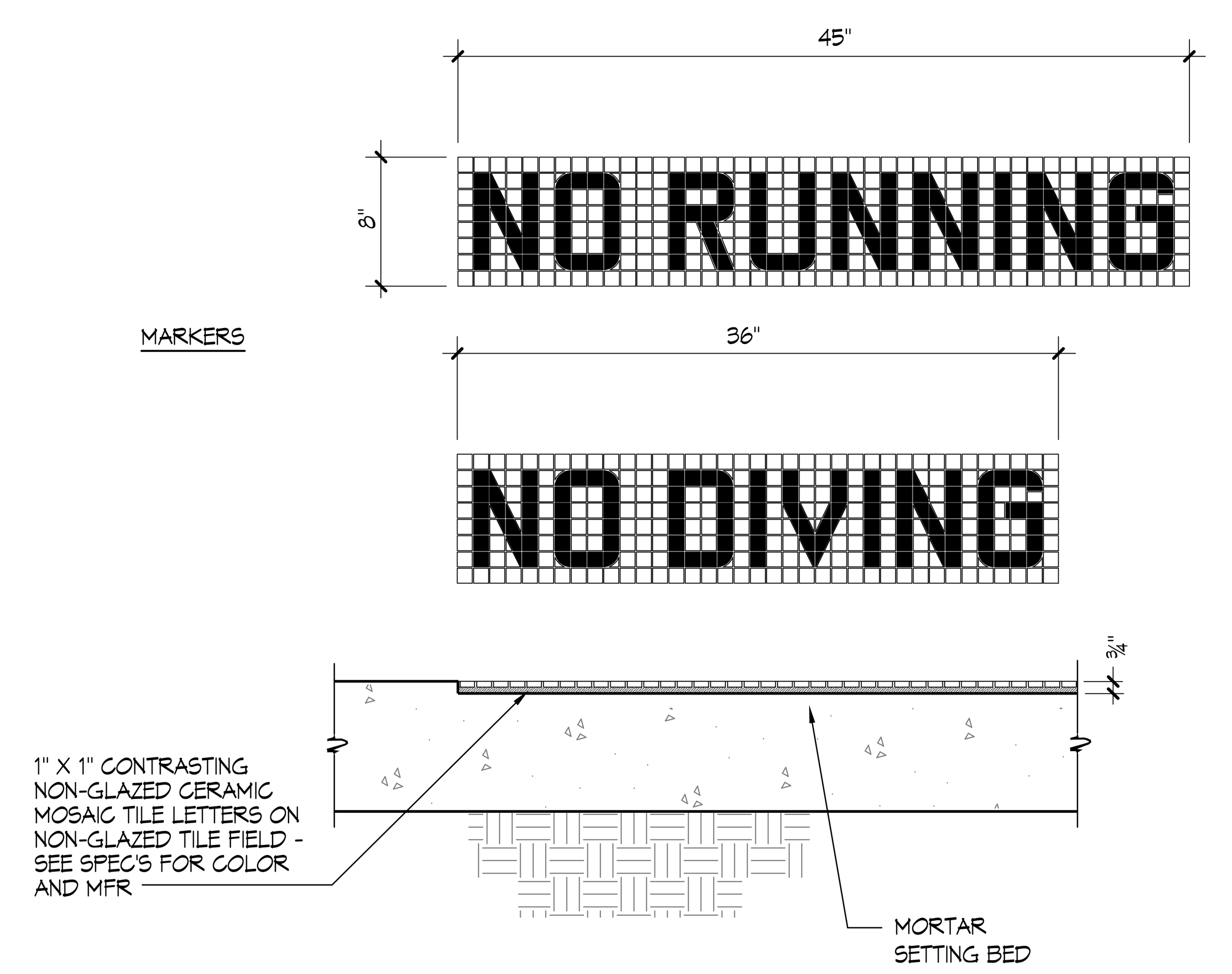
3 RACING LANE LINE 1½"=1'-0"



PROVIDE DEPTH MARKERS ON DECK AND FRONT CANTILEVER DECK FACE (PER DET. 1 SP-6) AT ALL DEPTH MARKER LOCATIONS

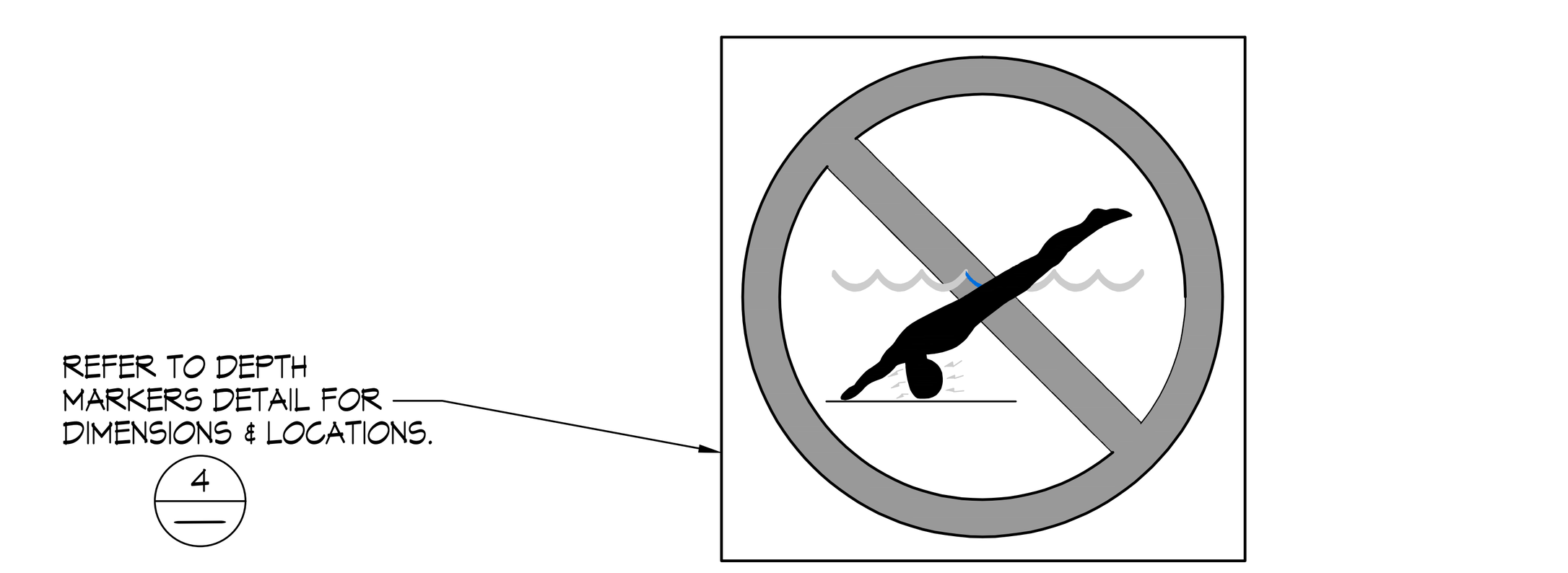
4 DEPTH MARKERS 1½" = 1'-0"

MARKERS



SECTION THROUGH TILE

5 "NO RUNNING" / "NO DIVING" MARKERS 1½" = 1'-0"

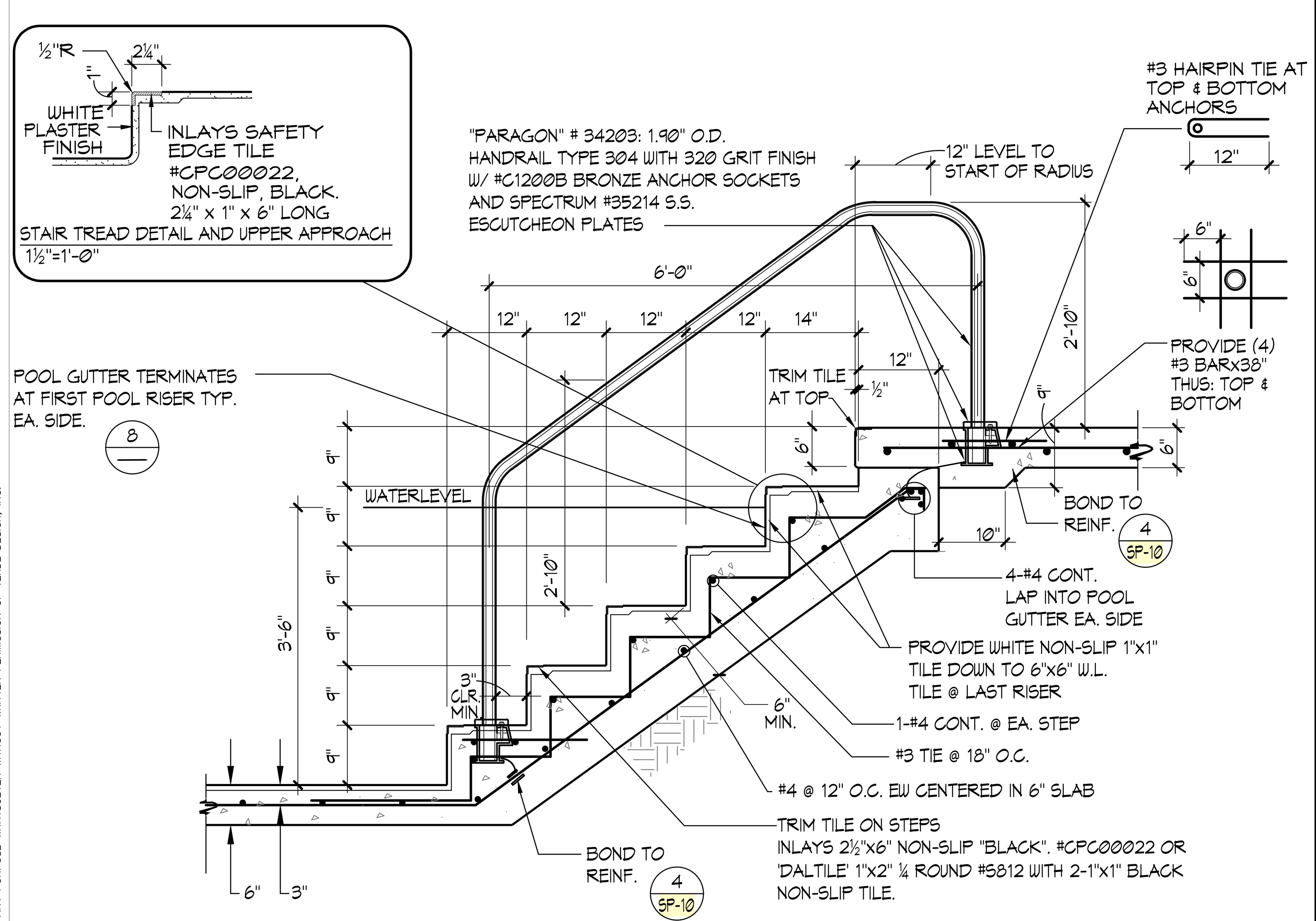


NOTE: PLACE IN DECK AT ALL DEPTH MARKER LOCATION OF 6'-0" OR LESS.

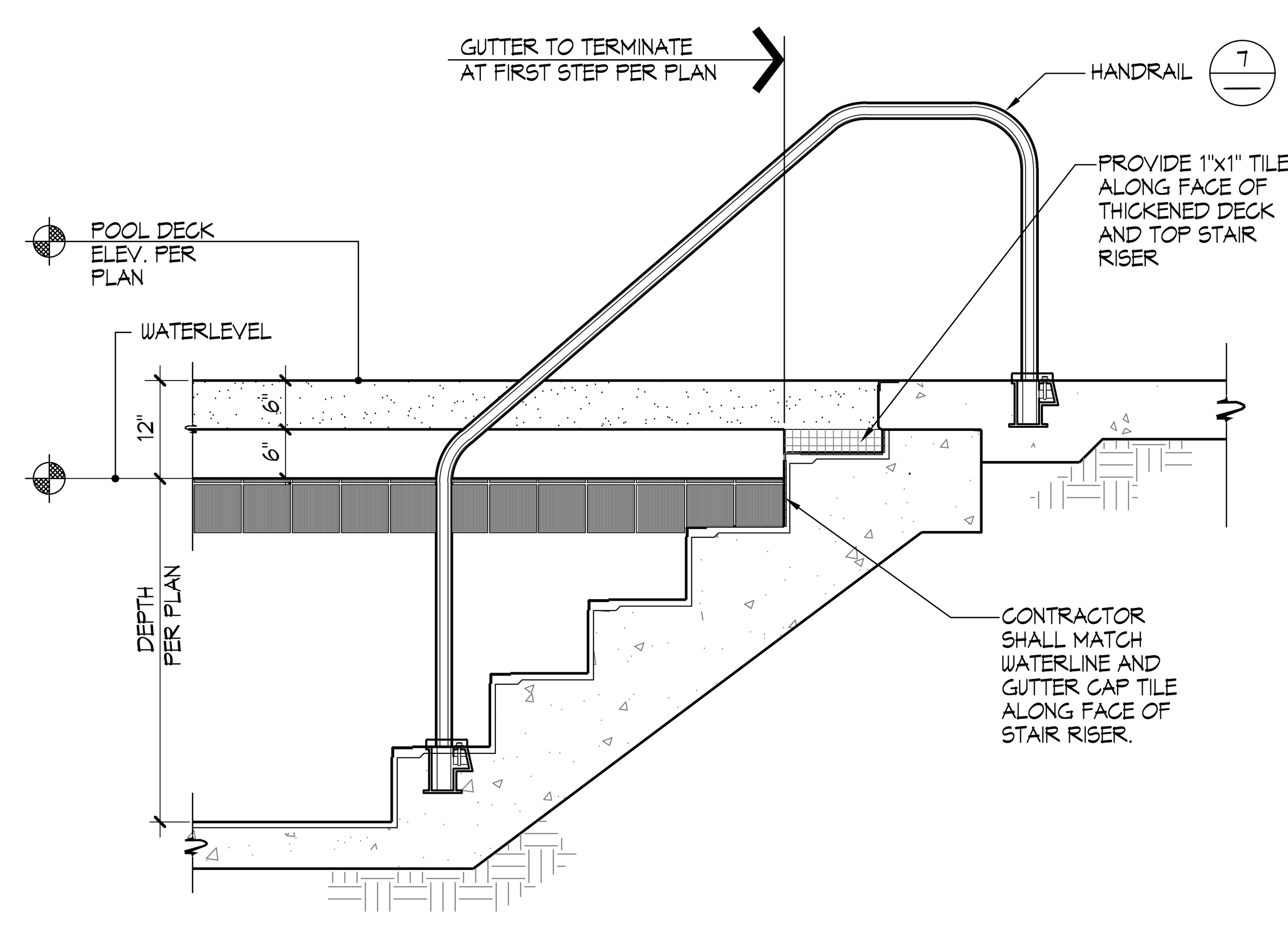
SILK SCREEN

1. INLAYS DOUBLE GLAZED WHITE SLIP RESISTANT TILE TYP. OF (1) PIECE OVER ¼" MORTAR BED WITH 1/16" GROUT JOINTS. SEE PLAN FOR LOCATION.
2. 1" WIDE RED CIRCLE WITH 1" WIDE RED DIAGONAL LINE.
3. ⅛" BLUE WATER.
4. 1/16" RED TICKS ABOUT THE HEAD.
5. TAN COLOR BODY WITH BLACK OUTLINE, HAIR AND TRUNKS.
6. ⅛" BLACK POOL FLOOR.

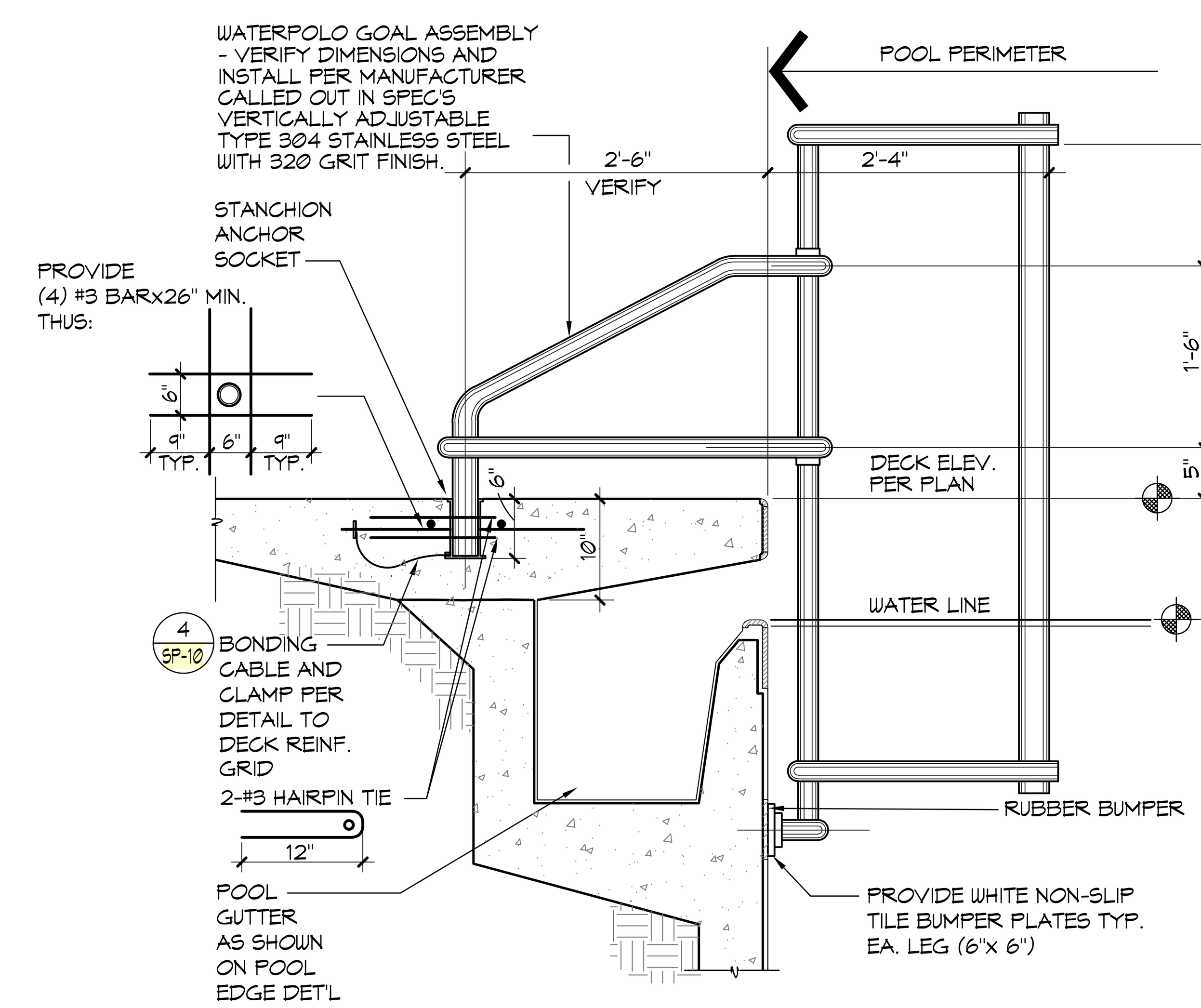
6 INTERNATIONAL "NO DIVING" MARKER 3"=1'-0"



7 HANDRAIL DETAIL ¾"=1'-0"



8 GUTTER EDGE AT STAIRS ¾"=1'-0"



9 WATERPOLO GOAL 1"=1'-0"

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SCOTT J. FERRELL
C-26222
REN. 12/31/21
STATE OF CALIFORNIA

CONSULTANT

AQUATIC DESIGN GROUP
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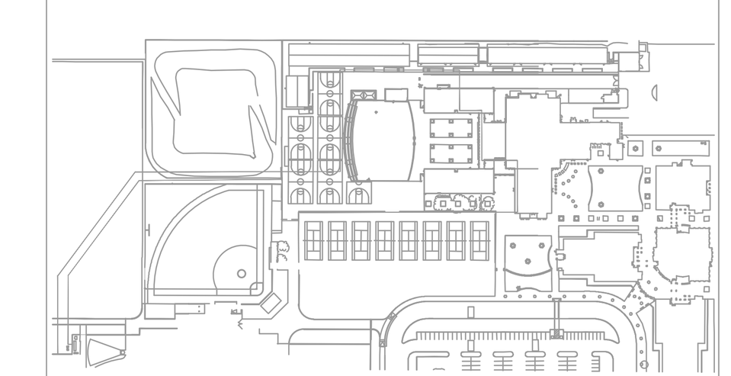
AquaticDesignGroup.com
760.438.8400

KEYMAP



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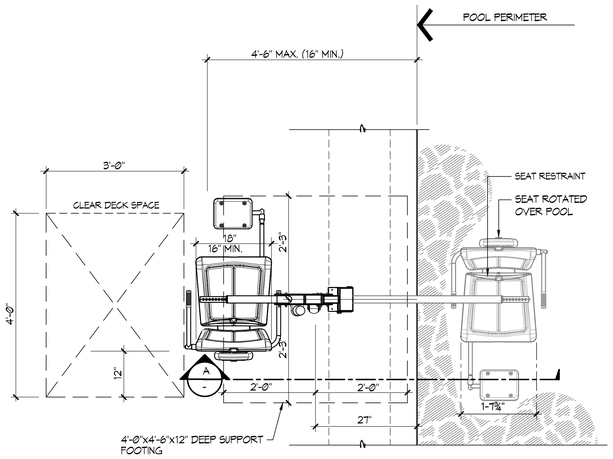
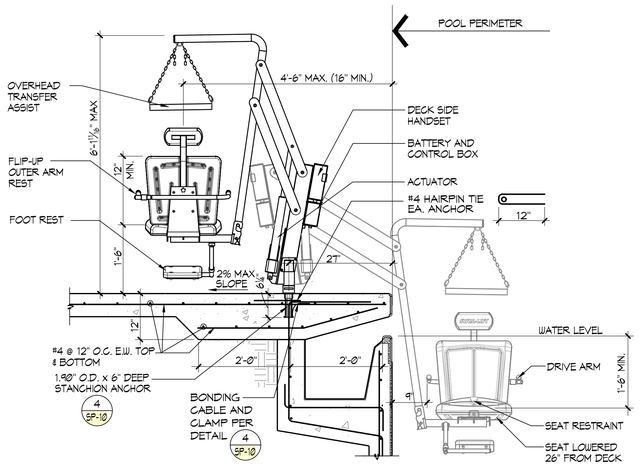
SHEET NO. SP-6

DETAILS



TOP VIEW



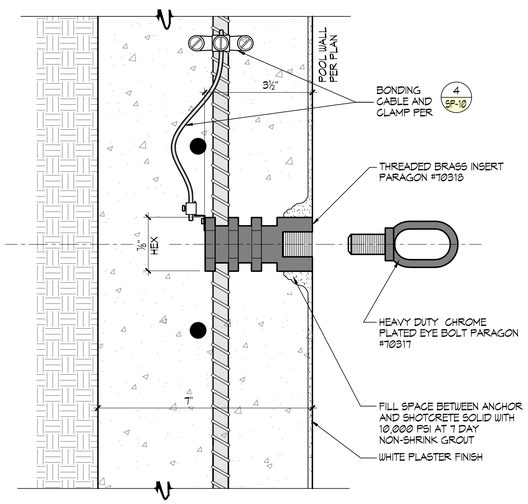
SIDE VIEW A

NOTES:

1. 'SPECTRUM' TRAVELER XRG 500 (350 lb. MIN. AND 500 lb. MAX. LIFTING CAPACITY)
2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'SPECTRUM' #27365; EXTRA BATTERY PACK 'SPECTRUM' #13257; AND TRANSPORTER CART 'SPECTRUM' #26060.
4. UTILIZE OUTLET IN SWIM TEAM ROOM FOR DISABLED LIFT BATTERY CHARGE STATION. SEE SP.3.
5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP , UNLESS ENTIRE POOL IS GREATER THAT 48" DEEP. (CBC SECTION 11B-1009.2.1)
6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.2)
7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE x 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.3)
8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.4)
9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (CBC SECTION 11B-1009.2.4)
10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.6)
11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE (CBC SECTION 11B-309.4.) LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (CBC SECTION 11B-1009.2.7)
12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL. (CBC SECTION 11B-1009.2.8)
13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH CBC SECTION 11B-1009.2.4 AND SECTION 11B-309.

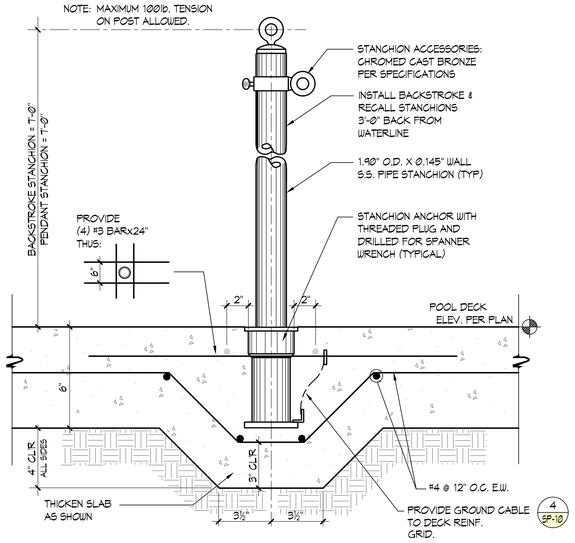
1 ACCESSIBLE LIFT

¾"=1'-0"



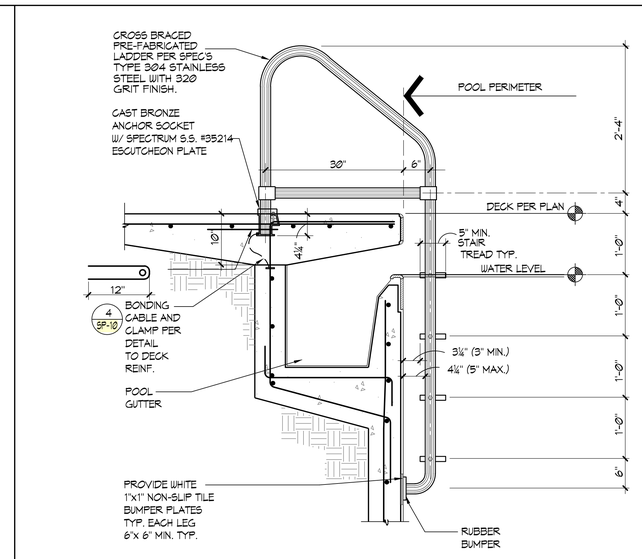
2 ROPE ANCHOR

½" = 1"



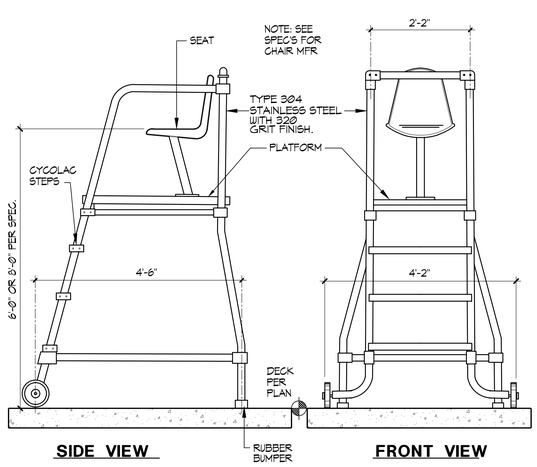
3 STANCHION POST/ANCHOR

3"=1'-0"



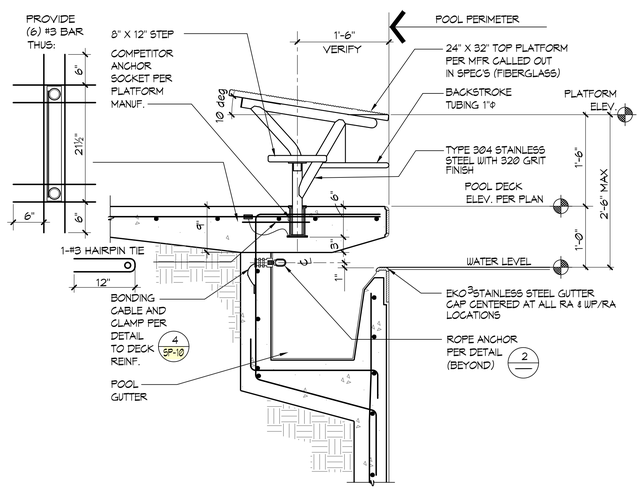
4 POOL LADDER

1"=1'-0"



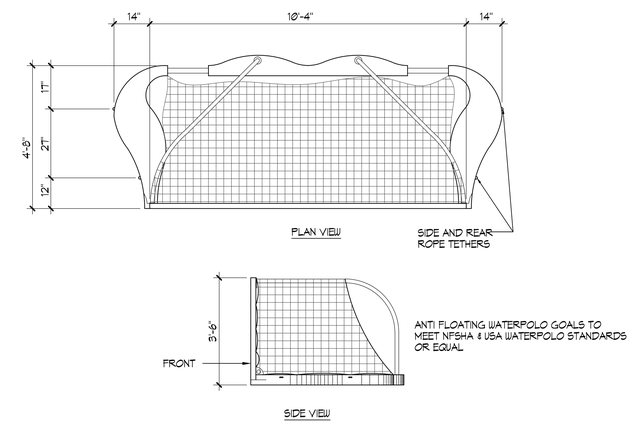
5 MOVEABLE LIFEGUARD CHAIR

¾"=1'-0"



6 RACING PLATFORM

1"=1'-0"



7 FLOATING WATER POLO GOALS

½"=1'-0"

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CONSULTANT

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
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760.438.8400

KEYMAP

SHEET TITLE

DETAILS

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STOCKTON USD
SWIMMING POOL

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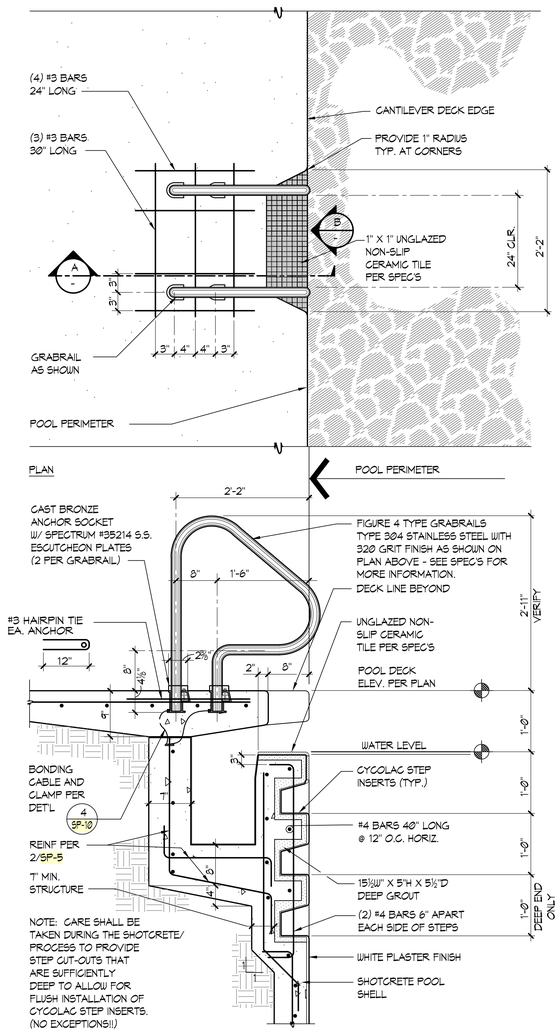
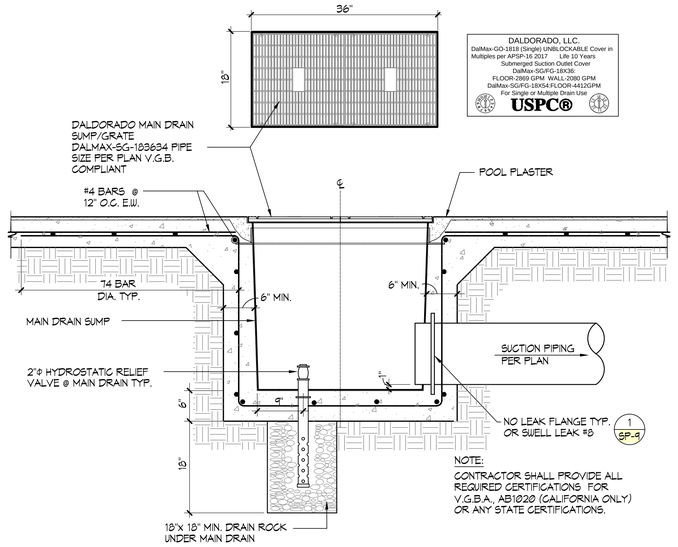
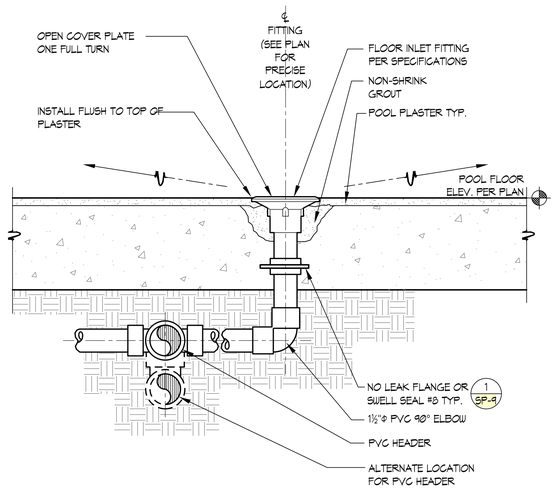
SP-7	



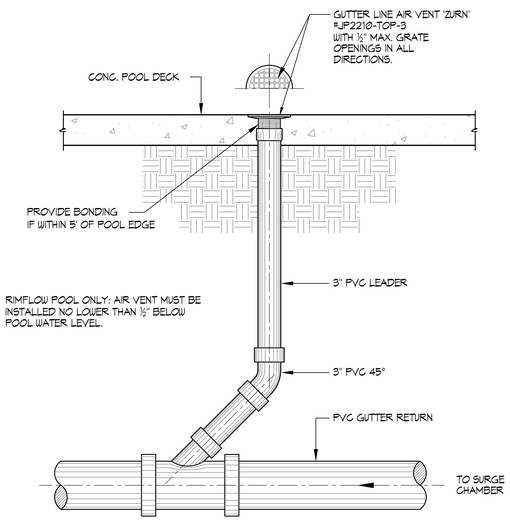
1 **GRABRAIL WITH STEPS** 1"=1'-0"



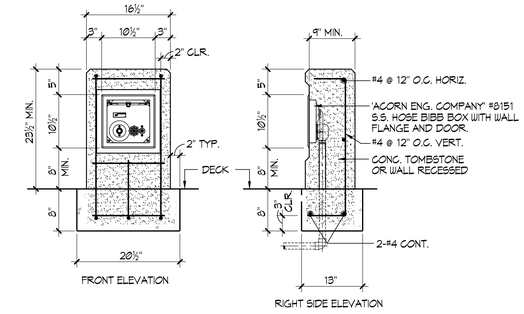
2 **MAIN DRAIN** 1" = 1'-0"



3 **FLOOR INLET** 3"=1'-0"

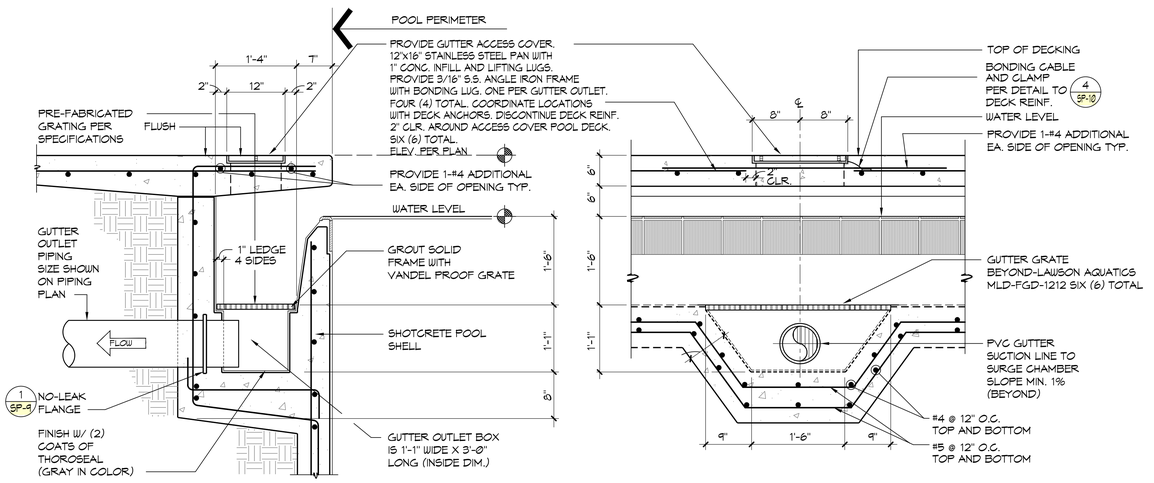


4 **AIR VENT** 1"=1'-0"



NOTE:
PROVIDE ¾" CHAMFER ON ALL CONCRETE CORNERS. SACK & PATCH ALL EXPOSED SURFACES.

5 **HOSE BIBB** 1"=1'-0"



6 **GUTTER OUTLET** 1"=1'-0"

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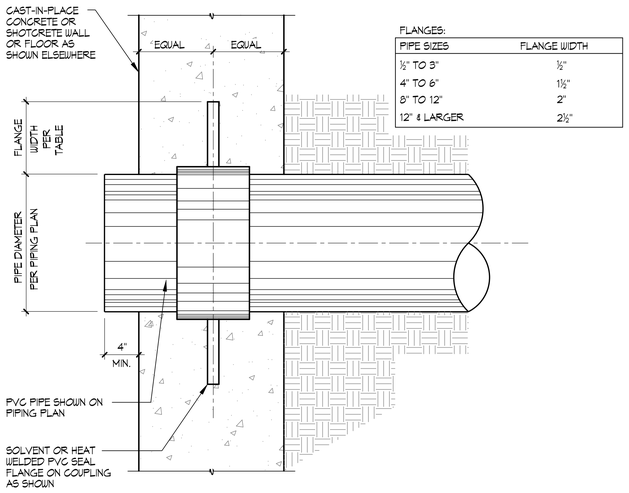
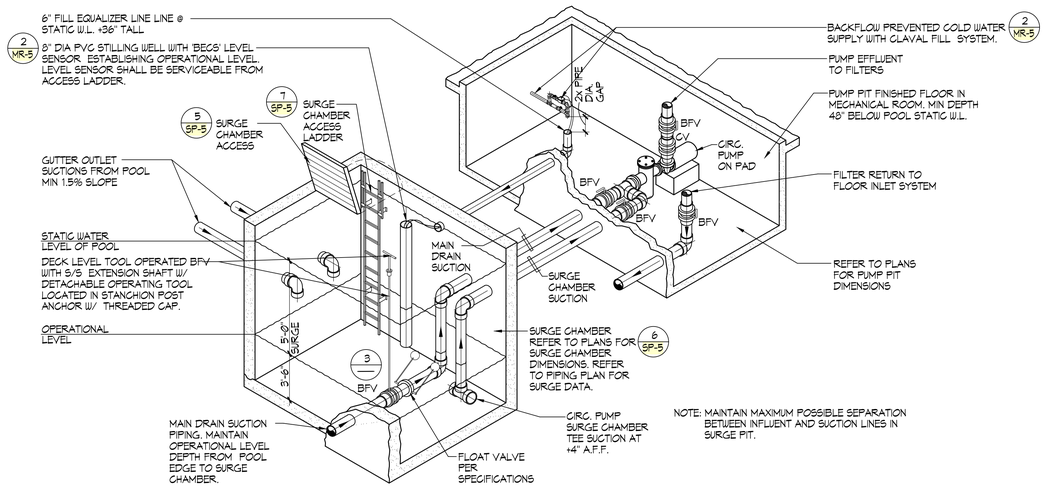
SP-8	



FLANGES:

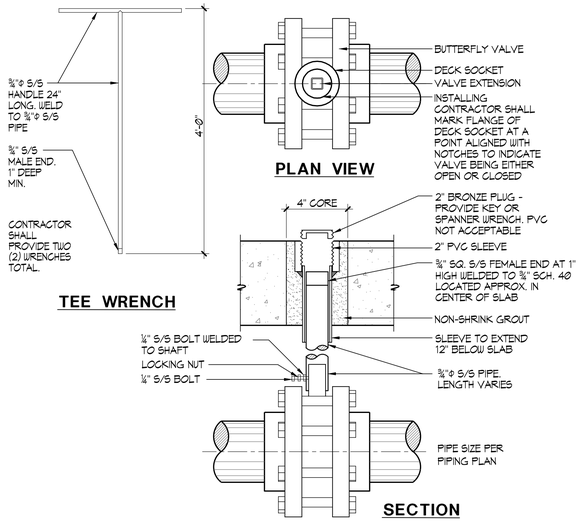
PIPE SIZES	FLANGE WIDTH
½" TO 3"	½"
4" TO 6"	1½"
8" TO 12"	2"
12" & LARGER	2½"

1 WATER STOP DETAIL NO SCALE



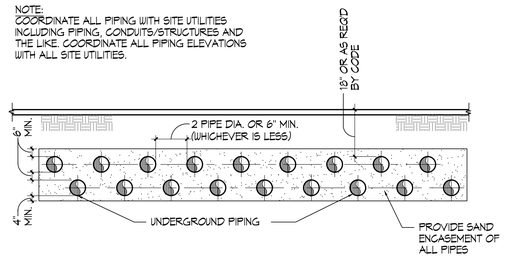
NOTE: MAINTAIN MAXIMUM POSSIBLE SEPARATION BETWEEN INFLUENT AND SUCTION LINES IN SURGE PIT.

2 SURGE CHAMBER PIPING SCHEMATIC NO SCALE

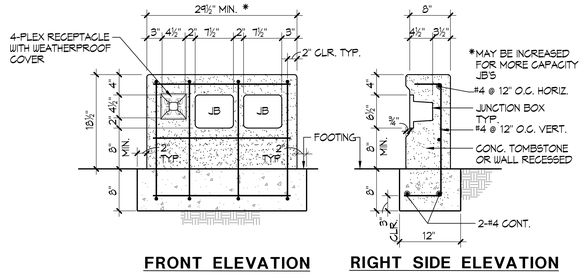


3 SURGE CHAMBER BUTTERFLY VALVE / EXTENSION DETAIL NO SCALE

NOTE:
COORDINATE ALL PIPING WITH SITE UTILITIES INCLUDING PIPING, CONDUITS/STRUCTURES AND THE LIKE. COORDINATE ALL PIPING ELEVATIONS WITH ALL SITE UTILITIES.

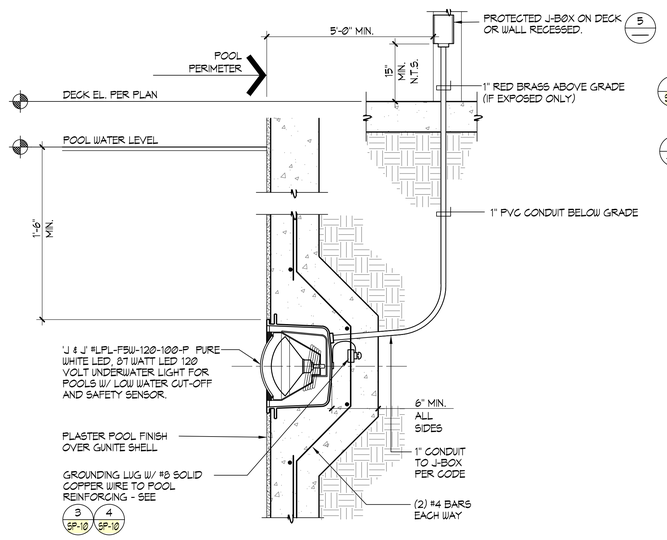


4 STACKED UNDERGROUND PIPING NO SCALE



NOTE:
PROVIDE ½" RADIUS ON ALL CONCRETE CORNERS.

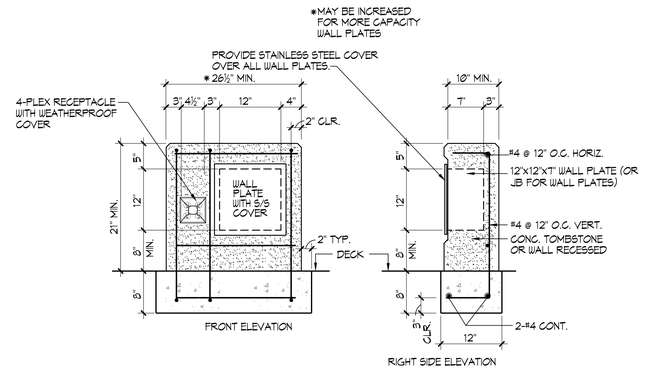
5 UNDERWATER LIGHT JUNCTION BOX CONCRETE SURROUND DETAIL 1"=1'-0"



UNDERWATER LIGHT NOTES:

1. ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1"ø.
2. CONDUCTORS TO POOL, J-BOXES SHALL BE MINIMUM 2-#8 & 1#8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLDWATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.
3. ALL BRASS POOL J-BOXES SHALL BE FLUSH MOUNTED IN WALLS. IF FLUSH MOUNTING IS NOT POSSIBLE THEN MOUNTING SHALL BE SURFACE MOUNTED AND CONCRETE ENGAGED.
4. CONDUITS WHERE ALLOWED BY CODE SHALL BE P.V.C. (POLYVINYL CHLORIDE) FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. PVC CONDUITS SHALL BE SOLVENT WELDED WITH PURPLE PRIMER AND GRAY HEAVY BODIED GLUE.
5. LIGHTING CONTACTORS SHALL BE "ALLEN-BRADLEY" #500 L; OR EQUAL MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO "HUBBELL" #1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.
6. BRASS POOL J-BOXES SHALL BE "HYDREL" #1719 ; W/ 1" HUBS OR EQUAL. (NO DIE CAST BOXES).
7. STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
8. LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO, SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 680 OF LATEST N.E.C. BOOK.
9. PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
10. CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFIC CIRCUITS AND PROVIDE LETTER TO OWNER/DSA UPON SUCCESSFUL TEST.
11. SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
12. PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.

6 UNDERWATER LED LIGHT 1½"=1'-0"



NOTE:
PROVIDE ¾" CHAMFER ON ALL CONCRETE CORNERS.

7 TIMING SYSTEM WALL PLATE CONCRETE SURROUND DETAIL 1"=1'-0"

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CONSULTANT

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

KEYMAP

SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
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DRAWN BY	CHECKED BY
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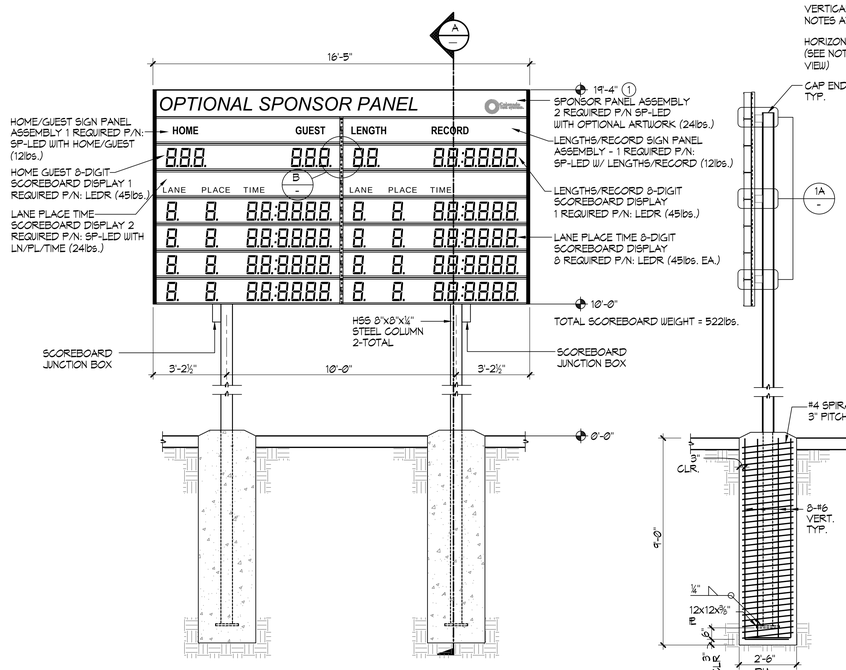
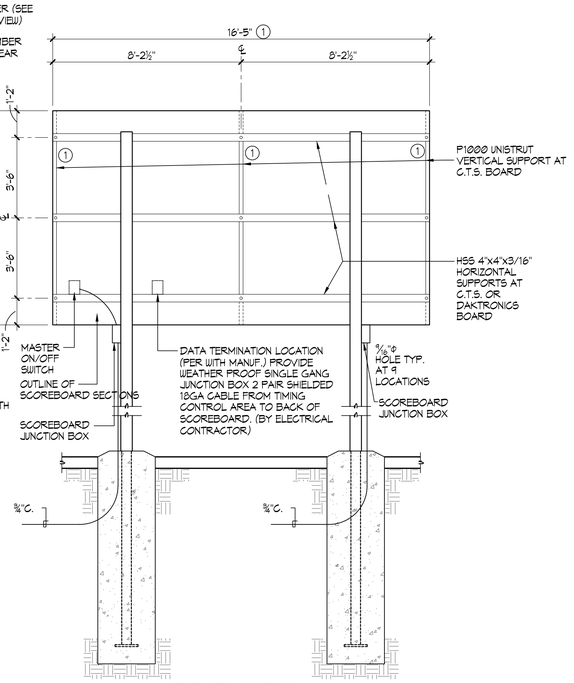
SP-9	



FRONT VIEW
3/8"=1'-0"

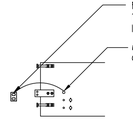
A SECTION
3/8"=1'-0"



REAR VIEW
3/8"=1'-0"

NOTES:

1. C.T.S. 'COLORADO TIME SYSTEM' DIMENSIONS: 9'-4"HX16'-5"L PROVIDE THREE (3) P1000 UNISTRUT VERTICAL MEMBERS BOLTED TO HORIZONTAL MEMBERS.
2. PROVIDE FOOTING OK FOR SINGLE POUR COLUMN TO BE HELD IN PLACE WITH FORM TEMPLATE.
3. VIBRATE CONCRETE FULL DEPTH.
4. PROVIDE PLYWOOD COLLAR AROUND OPENING.
5. CAP ALL TUBES
6. PROVIDE SHOP PRIME WITH ZINC ENRICHED PAINT.
7. PROVIDE FINISH EXTERIOR ACRYLIC PAINT. COLOR TO BE SELECTED BY OWNER/ARCHITECT.



ELECTRICAL HOOKUP DETAIL

SPECIFICATIONS:

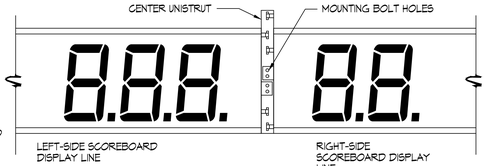
LED SCOREBOARD:
- DIGITS:
- DIGITS ARE 10" HIGH, 7 LED SEGMENTS EACH
- COLONS AND DECIMALS ARE VINYL
- CAPTIONS:
- ALL CAPTIONS ARE 5" HIGH, VINYL

IDENTIFICATION DISPLAY:
- LETTERS ARE 12" HIGH, VINYL
- DISPLAY FACE IS FINISHED ALUMINUM

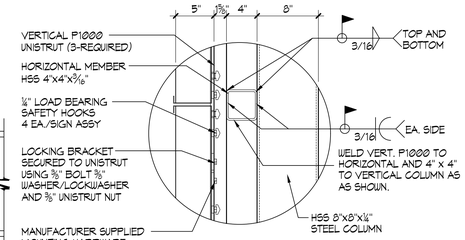
GENERAL DISPLAY:
- SINGLE FACE
- ALL ALUMINUM CONSTRUCTION
- DISPLAY FINISH TO BE SPECIFIED
- DIMENSIONS ARE SUBJECT TO CHANGE DUE TO DETAILED DESIGN CONSIDERATIONS/ONLY APPROVED SHOP DRAWINGS SHOULD BE USED FOR CONSTRUCTION PURPOSES
- OUTDOOR MODELS MUST BE EARTH GROUNDED/NUMBER & LENGTHS OF RODS TO MEET LOCAL NATIONAL ELECTRIC CODE.

MAXIMUM POWER CONSUMPTION:
- 700 WATTS
  120V AC, 20 AMP CIRCUIT REQUIRED

TOTAL SYSTEM WEIGHT:
- APPROXIMATELY 522 LBS

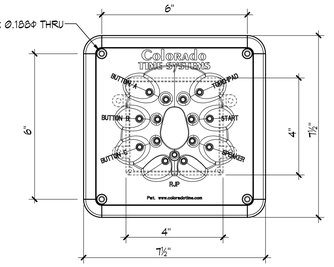


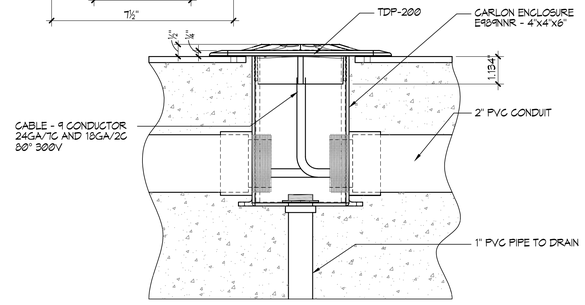
B SIDE-BY-SIDE MOUNTING DETAIL
1½"=1'-0"



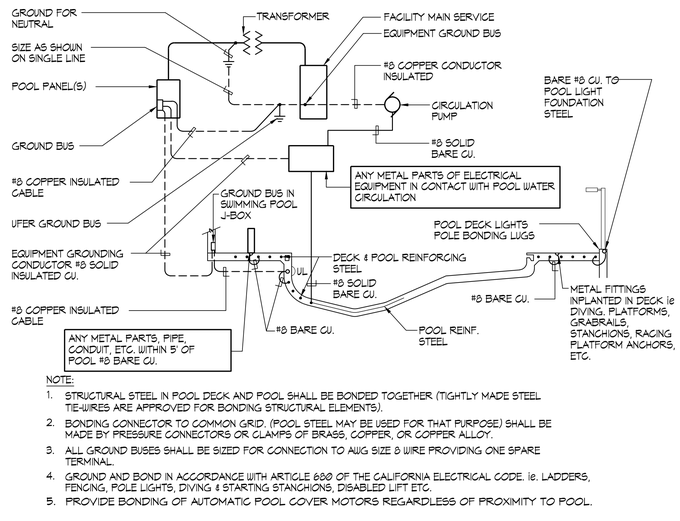
1A 'COLORADO TIME SYSTEM' MOUNTING DETAIL
1½"=1'-0"

1 SCOREBOARD DETAILS
AS NOTED





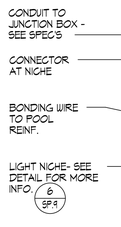
2 TITANIUM DECK PLATE DETAIL (LOCATED UNDER RACING PLATFORM)
NO SCALE



NOTE:

1. STRUCTURAL STEEL IN POOL DECK AND POOL SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL TIE-WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
2. BONDING CONNECTOR TO COMMON GRID. (POOL STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
3. ALL GROUND BUSES SHALL BE SIZED FOR CONNECTION TO AWG SIZE 8 WIRE PROVIDING ONE SPARE TERMINAL.
4. GROUND AND BOND IN ACCORDANCE WITH ARTICLE 680 OF THE CALIFORNIA ELECTRICAL CODE. ie. LADDERS, FENCING, POLE LIGHTS, DIVING & STARTING STANCHIONS, DISABLED LIFT ETC.
5. PROVIDE BONDING OF AUTOMATIC POOL COVER MOTORS REGARDLESS OF PROXIMITY TO POOL.

3 TYPICAL POOL BONDING AND GROUND DETAIL
NO SCALE



NICHE CONNECTOR
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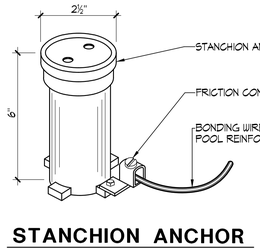
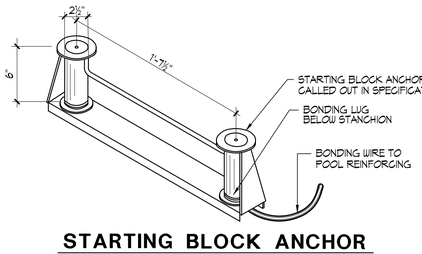


STANCHION ANCHOR
NO SCALE



STARTING BLOCK ANCHOR
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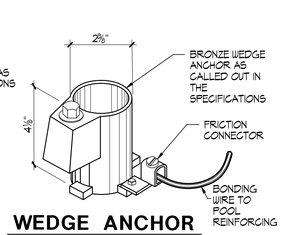

WEDGE ANCHOR
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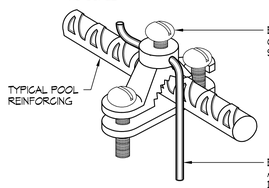
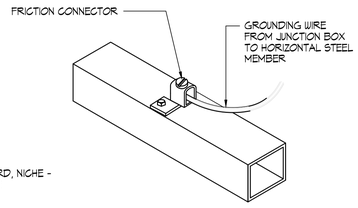
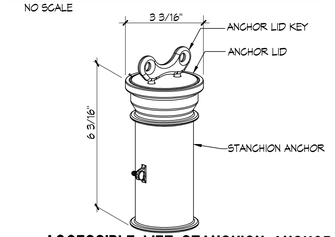


BONDING CLAMP
NO SCALE

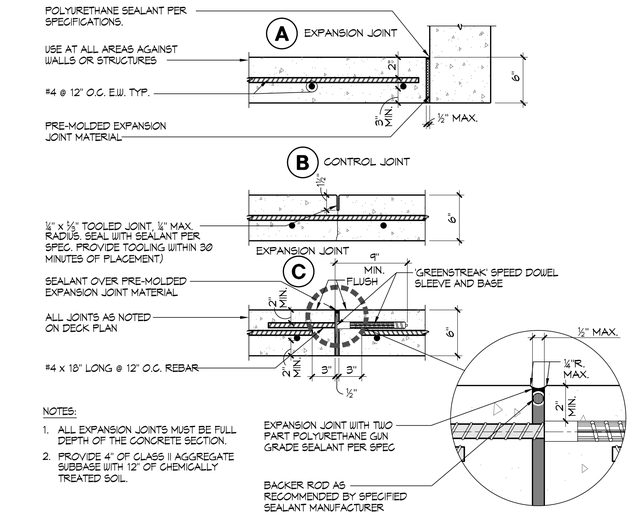


SCOREBOARD ELEC. GROUNDING
NO SCALE



ACCESSIBLE LIFT STANCHION ANCHOR
NO SCALE

4 BONDING DETAILS
NO SCALE



NOTES:

1. ALL EXPANSION JOINTS MUST BE FULL DEPTH OF THE CONCRETE SECTION.
2. PROVIDE 4" OF CLASS II AGGREGATE SUBBASE WITH 12" OF CHEMICALLY TREATED SOIL.

5 POOL CONCRETE DECK JOINT DETAILS
1½"=1'-0"

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CONSULTANT

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

KEYMAP

SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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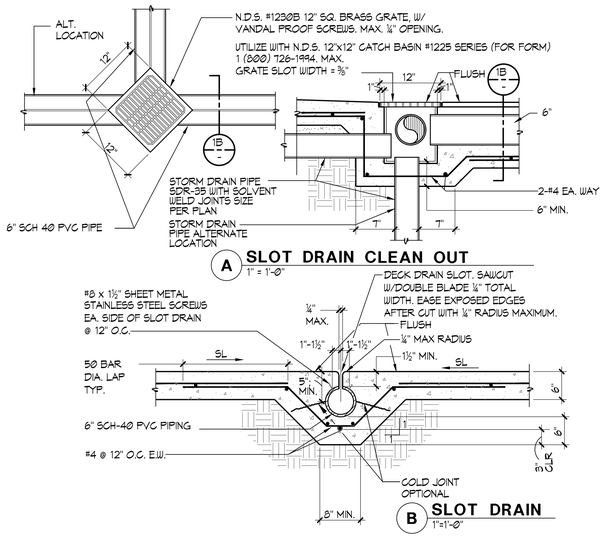


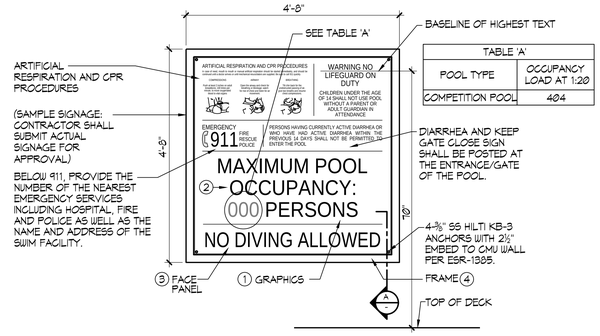
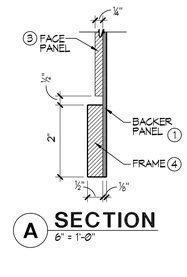


TABLE 'A'	
POOL TYPE	OCCUPANCY LOAD AT 1:20
COMPETITION POOL	404



A SECTION
6" = 1'-0"

NOTES:
1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SIGNAGE FOR REVIEW.
3. CHARACTER FONT STYLE SHALL BE CONVENTIONAL AND NOT UNUSUAL AND SHALL BE EASY TO READ.
4. MINIMUM CHARACTER HEIGHT = ⅝"

SIGNAGE NOTES AND SPECIFICATIONS:

1. ½" THICK PAINTED ALUMINUM BACKER PANEL.
2. SILKSCREENED COPY/GRAPHICS WITH NON GLARE FINISH.
3. ¼" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO ½" THICK PAINTED ALUMINUM BACKER PANEL USING VHB TAPE AND SILICONE ADHESIVE.
4. 2" WIDE x ½" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO ½" THICK PAINTED ALUMINUM BACKER USING 'LORDS' ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE. FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.

REQUIRED SIGNAGE:

1. ALL SIGNS SHALL HAVE CLEARLY LEGIBLE LETTERS OR NUMBERS NOT LESS THAN 4 INCHES HIGH, UNLESS OTHERWISE NOTED, AFFIXED TO A WALL, POLE, GATE, OR SIMILAR PERMANENT STRUCTURE IN A LOCATION VISIBLE TO ALL POOL USERS.
   - A. POOL USER CAPACITY SIGN; A SIGN SHALL INDICATE THE MAXIMUM NUMBER OF POOL USERS PERMITTED FOR EACH POOL.
   - B. NO DIVING SIGN; SIGNS SHALL BE POSTED IN CONSPICUOUS PLACES AND SHALL STATE NO DIVING AT POOLS WITH A MAXIMUM WATER DEPTH OF 6 FEET OR LESS.
   - C. NO LIFEGUARD SIGN; WHERE NO LIFEGUARD SERVICE IS PROVIDED, A WARNING SIGN SHALL BE POSTED STATING, "WARNING: NO LIFEGUARD ON DUTY." THE SIGN ALSO SHALL STATE IN LETTERS AT LEAST 1 INCH HIGH, "CHILDREN UNDER THE AGE OF 14 SHALL NOT USE POOL WITHOUT A PARENT OR ADULT GUARDIAN IN ATTENDANCE."
   - D. ARTIFICIAL RESPIRATION AND CPR SIGN; AN ILLUSTRATED DIAGRAM WITH TEXT AT LEAST ⅝ INCH HIGH OF ARTIFICIAL RESPIRATION AND CPR PROCEDURES SHALL BE POSTED.
   - E. EMERGENCY SIGN; THE EMERGENCY TELEPHONE NUMBER 911, THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED.
   - F. NO USE AFTER DARK; WHERE POOLS WERE CONSTRUCTED FOR WHICH LIGHTING WAS NOT REQUIRED A SIGN SHALL BE POSTED AT EACH POOL ENTRANCE ON THE OUTSIDE OF THE GATE(S) STATING, "NO USE OF POOL ALLOWED AFTER DARK."
   - G. KEEP CLOSED; A SIGN SHALL BE POSTED ON THE EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP CLOSED."
   - H. DIARRHEA; A SIGN IN LETTERS AT LEAST 1 INCH HIGH AND IN A LANGUAGE OR DIAGRAM THAT IS CLEARLY STATED SHALL BE POSTED AT THE ENTRANCE AREA OF A PUBLIC POOL WHICH STATES THAT PERSONS HAVING CURRENTLY ACTIVE DIARRHEA OR WHO HAVE HAD ACTIVE DIARRHEA WITHIN THE PREVIOUS 14 DAYS SHALL NOT BE ALLOWED TO ENTER THE POOL WATER.
2. DIRECTION OF FLOW SIGNAGE AND LABELS.
   - A. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA.
   - B. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
   - C. VALVES AND PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS.

1 SLOT DRAIN 1"=1'-0"

2 POOL SIGNAGE DETAIL ¾"=1'-0"

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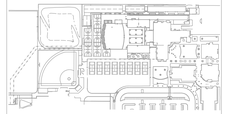

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DATE ISSUED	SCALE
03/13/2020	AS NOTED

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1910900-1211

SHEET NO.
SP-11

EQUIPMENT LIST

1. SWIMMING POOL STRAINER: 'MER-MADE' F.O. SERIES FRP REDUCING BASKET STRAINER: ONE (1) 10"x8" STANDARD, WITH ACRYLIC LID AND TWO (2) STAINLESS STEEL STRAINERS EA. (150lbs.)
2. SWIMMING POOL CIRCULATION PUMP: 'PACO' #6015-7, 6"x8"x15" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1150 RPM 460V, 3PH; 25HP; RATED AT 1,150 GPM @ 60 FT. TDH; 83% EFFICIENT; PREMIMUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL. (760 lbs.) PROVIDE 'SPCS' EKO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS602SEF4 SYSTEM 21"x41"x14" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH. (228 lbs.)
3. SWIMMING POOL FILTERS: 'EKO' SYSTEMS GEN 2' #EKO-42210-1006-T-4 AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 84 SQ. FT. OF FILTER AREA RATED AT 1,260 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 10" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING ETC. (1,400 lbs EACH TANK) 'EKO' SYSTEMS GEN 2 OR EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT ONE (1) SYSTEM TOTAL. PROVIDE 6" BUTTERFLY ISOLATION VALVES ON EACH FILTER INFLUENT LINE TYPICAL OF FOUR (4).
4. SWIMMING POOL HEATER(S): 'RAYPAK' XTHERM ULTRA HIGH EFFICIENCY CONDENSING MODULATING BOILER, TITANIUM PLATE AND FRAME HEAT EXCHANGER WITH CPVC CONNECTIONS, FACTORY ASSEMBLED SKID MOUNTED PACKAGE, CALIFORNIA CODE CONTROLS, 1¼" NATURAL GAS CONNECTION, 6" WATER CONNECTIONS, 8" DIAMETER FLUE, PVC VENTED. TWO (2) UNITS AT 1,500,000 BTU PER HOUR INPUT, 97% EFFICIENT, 'RAYPAK #1505A' 1,448 lbs. EA.) PROVIDE ¾" COLD WATER TO EACH UNIT WITH ADJACENT FLOOR SINK FOR CONDENSATE. REFER TO MECHANICAL PLANS FOR COMBUSTION AIR INTAKE AND EXHAUST FLUES.
5. CHLORINE STORAGE/FEED SYSTEM: PROVIDE 'CHEM-TAINER' 500 GALLON #TC5871IDG; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; OPERATING WEIGHT = (4,165lbs). COMPLIES WITH FED. REG #40CFR-264-193. FEED PUMP SHALL BE 'LMI' #SD43-89P-KSI; 288 GPD @ 15 PSI WITH FRP SHELF BRACKETS. HARD PIPE TO POINT OF INJECTION.
6. ACID STORAGE/FEED SYSTEM: PROVIDE 'CHEM-TAINER' 150 GALLON #TC3448DG; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; OPERATING WEIGHT =(1,250lbs). COMPLIES WITH FED. REG #40CFR-264-193. PROVIDE 60 GALLON ACID VAPOR RECOVERY SYSTEM. ONE (1) TOTAL.
7. CARBON DIOXIDE STORAGE FEED SYSTEM: PROVIDE ONE (1) 'NOVO-600', 600lb. CRYOGENIC LIQUID CO2 STORAGE TANK WITH REMOTE FILL PORT. 594 LIQUID lbs., (5,195 CUBIC FEET OF GASEOUS CO2 AT NTP.) ONE (1) TOTAL. PROVIDE EKO'PH-MTS CO2 HIGH EFFICIENCY FEED SYSTEM WITH ALKALINITY CONTROL, 0 TO 160 SCFH FEED CAPACITY BOOSTER PUMP, PIPING INJECTOR, FLOWMETER, RELAYS AND ACID FEED ALKALINITY CONTROL. ONE (1) SYSTEM TOTAL (92lbs. EA.) PROVIDE HARD WIRED 'ANALOX' #APJ KIT CO2 DETECTOR WITH AUDIBLE AND VISUAL ALARMS IN EACH CHEMICAL ROOM, UL 1971 STANDARD LISTED, ONE (1) TOTAL.
8. WATER CHEMISTRY CONTROLLER: PROVIDE ETHERNET CONNECTION TO 'BECSYS' CS-BECSYS1-BP-E IWATER CHEMISTRY CONTROLLER. PROVIDE COMPLETE SYSTEM CONTROL PACKAGE. 'BECSYS SYSTEM 7', 'IMPACT', 'WALLACE & TIERNAN' OR APPROVED EQUAL.
9. ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S), STARTER/DISCONNECT INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO.
10. PUMP PIT: 8'-0"x13'-0"x5'-0" DEEP. PROVIDE 2"ø GALV. STANDARD STEEL PIPE GUARDRAIL. PROVIDE SUMP PUMP TO WASTE. PROVIDE WATERPROOFING PER SPECIFICATIONS. ACCESS LADDER TO BE 'FIBERGRATE' DYNARAIL FRP OR EQUAL.
11. BACKWASH PIT: 8'-0" x 7'-0" x 5'-0" DEEP RAISED TO 1'-0" BELOW TOP OF FINISHED FLOOR AND 4'-0" ABOVE FINISHED FLOOR WITH 8"ø P-TRAP OUTLET TO SEWER. PROVIDE WATERPROOFING PER SPECIFICATIONS. COORDINATE WITH STRUCTURAL AND PLUMBING PLANS.
12. FILL SYSTEM: 3" 'CLA-VAL FILL SYSTEM TO INCLUDE 3" CLA-VAL SOLENOID CONTROL VALVE #136-01BY, 3" DUCT IRON, EPOXY COATED BODY WITH CAST IRON DISC RETAINER AND DIAPHRAGM WASHER, BRONZE TRIM, FLANGED GLOBE PATTERN, 120V AT 60HZ. SOLENOID WIRING SHALL BE WIRED TO WATER CHEMISTRY CONTROLLER. PROVIDE 6" AIR GAP AT FILL POINT .
13. EYEWASH/SHOWER: HAWS MODEL #8310WC BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH WITH CORROSION RESISTANT PROTECTION. SEE MEP SHEETS FOR SUPPLY PIPING. TWO (2) TOTAL.
14. LIGHTING CONTACTOR PANEL: 'ALLEN BRADLEY' #500L; OR APPROVED EQUAL. PANEL SHALL BE MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO 'HUBBELL' #1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.

THREE PHASE MOTOR LOADS AT 460V

SWIMMING POOL CIRCULATION PUMP: 25 HP @ 460V = 34 AMPS

GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME

MECHANICAL ANCHORAGE

1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ (ICC ESSR-1917) OR SIMPSON STRONG BOLT (ICC ESR-1771) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB 3 (ICC ESR-1385) OR SIMPSON WEDGE-ALL (ICC ESR-1396) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
3. UNDERCUT ANCHORS INTO CONCRETE: HILTI HDA (ICC ESR-1546) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
4. HEAVY DUTY SLEEVE ANCHORS INTO CONCRETE: HILTI HSL-3 (ICC ESR-1545) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
5. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
6. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
7. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
8. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
9. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
10. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING LOADING DEVICES, ETC.
11. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
12. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.
13. TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE TABLE:
    A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
    B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.
14. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED, OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 lbs. OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS..

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25, 1616A.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., SMACNA OR OSHPD OPM), 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.

LEGEND

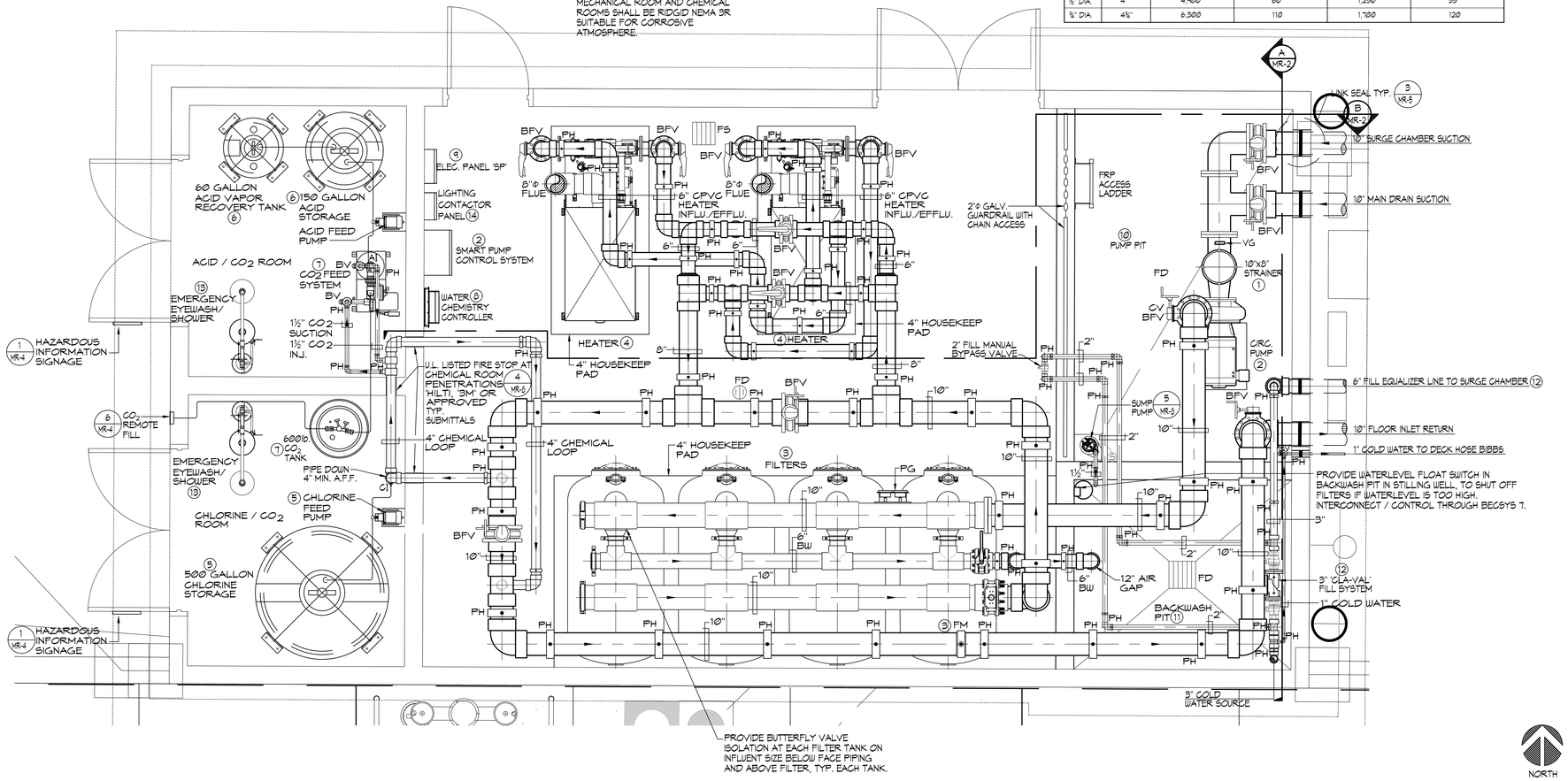
BV	=	BALL VALVE
BFV	=	BUTTERFLY VALVE
CV	=	CHECK VALVE
FM	=	FLOWMETER
BW	=	BACKWASH
FS	=	FLOOR SINK
AI	=	ACID INJECTION
CI	=	CHLORINE INJECTION
PH	=	PIPE HANGER (3 / MR-5)
PG/VG	=	VACUUM / PRESSURE GAUGE (6 / MR-5) (6 / MR-5)
FD	=	FLOOR DRAIN

WEDGE OR EXPANSION ANCHOR EMBEDMENT DEPTH AND TEST LOAD

SIZE	MIN. EMBED	ANCHORS IN CONCRETE		ANCHORS IN MASONRY	
		TENSION LOAD (LBS)	TORQUE LOAD (FT-LBS)	TENSION LOAD (LBS)	TORQUE LOAD (FT-LBS)
¼" DIA.	2"	800	10	300	10
⅜" DIA.	2"	1,500	25	500	30
½" DIA.	3¼"	3,000	40	1,000	35
⅝" DIA.	4"	4,400	60	1,250	55
¾" DIA.	4½"	6,300	110	1,700	120

NOTE:

ALL ELECTRICAL CONDUITS WITHIN MECHANICAL ROOM AND CHEMICAL ROOMS SHALL BE RIDGID NEMA 3R SUITABLE FOR CORROSIVE ATMOSPHERE..



(1) MECHANICAL ROOM LAYOUT PLAN ½"=1'-0"

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KEYMAP

SHEET TITLE

MECHANICAL ROOM LAYOUT PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

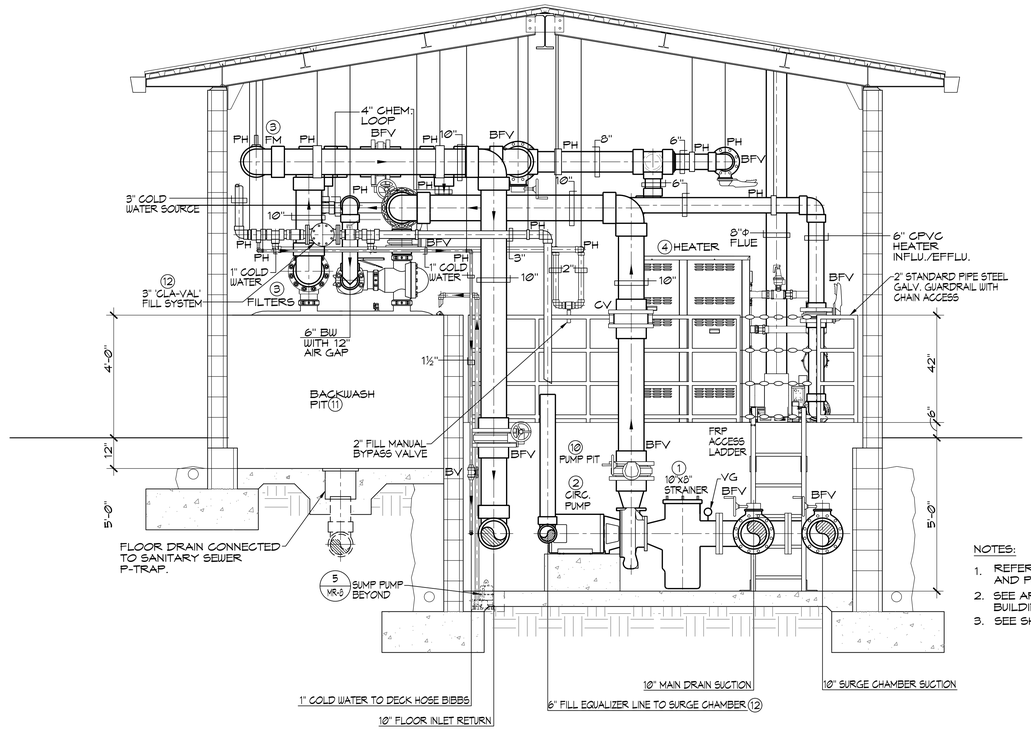
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY: NFC
CHECKED BY: SJF
DATE ISSUED: 03/13/2020
SCALE: 1/2"=1'-0"
PROJ. NO.: 1910900-1211
SHEET NO.: MR-1

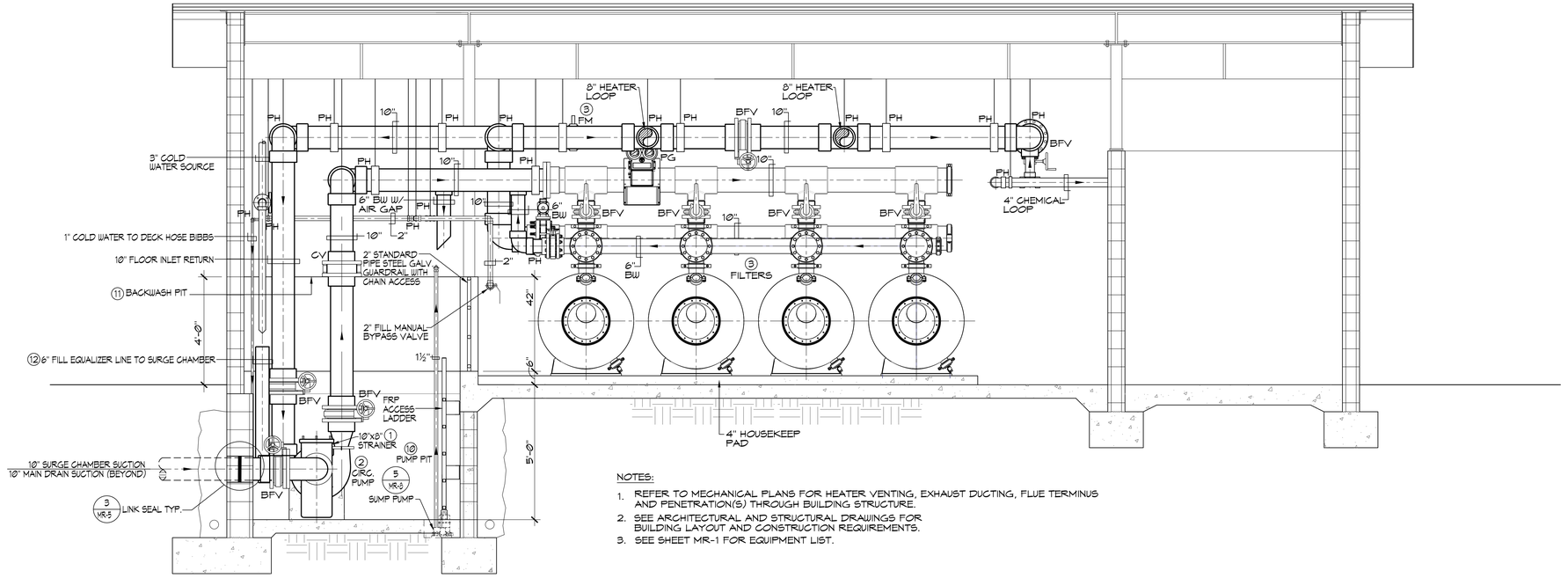
MECHANICAL ROOM LAYOUT PLAN



NOTES:

1. REFER TO MECHANICAL PLANS FOR HEATER VENTING, EXHAUST DUCTING, FLUE TERMINUS AND PENETRATION(S) THROUGH BUILDING STRUCTURE.
2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING LAYOUT AND CONSTRUCTION REQUIREMENTS.
3. SEE SHEET MR-1 FOR EQUIPMENT LIST.

A **MECHANICAL ROOM SECTION** ½"=1'-0"



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B **MECHANICAL ROOM SECTION** ½"=1'-0"

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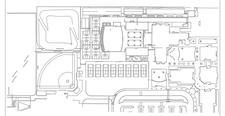

SHEET TITLE

MECHANICAL ROOM SECTIONS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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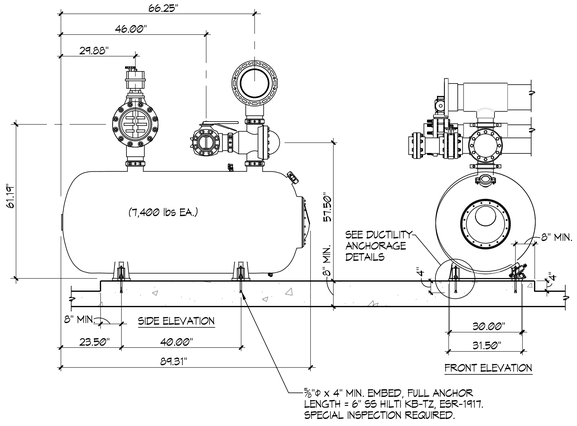
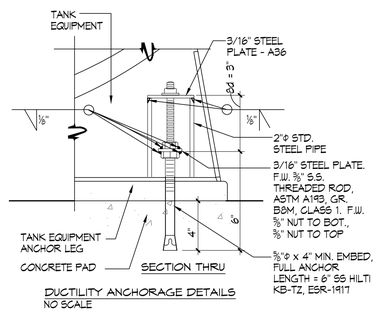
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

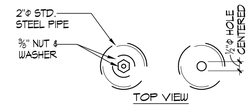
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
NFC	SJF
DATE ISSUED	SCALE
03/13/2020	1/2"=1'-0"
PROJ. NO.	
1910900-1211	
SHEET NO.	
MR-2	

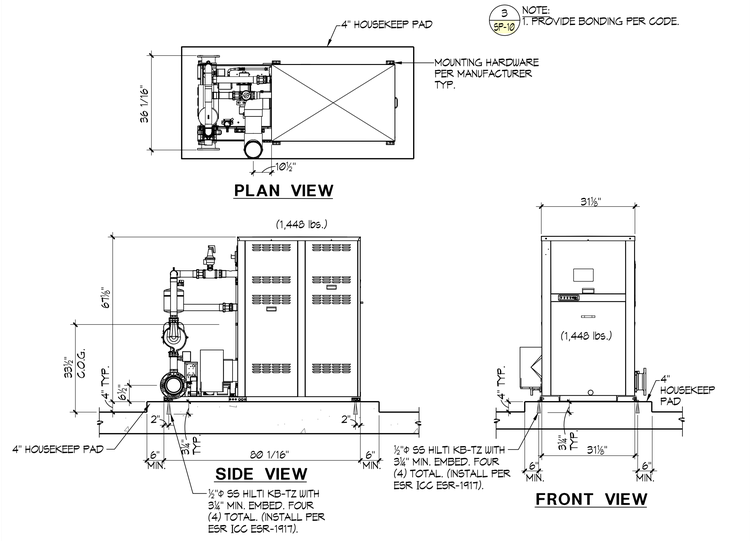
MECHANICAL ROOM SECTIONS





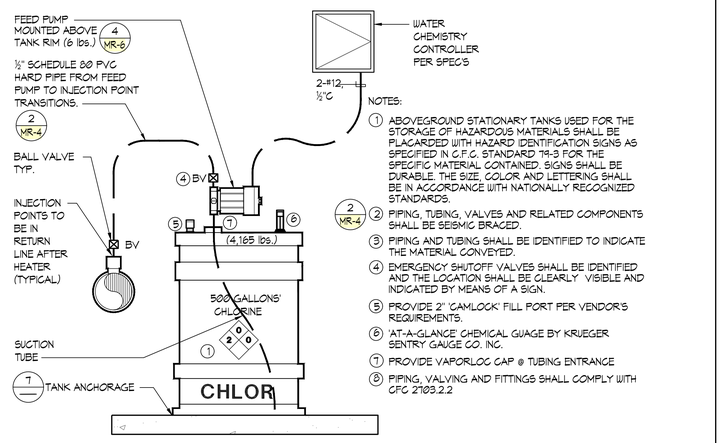


1 FILTER ANCHORAGE NO SCALE

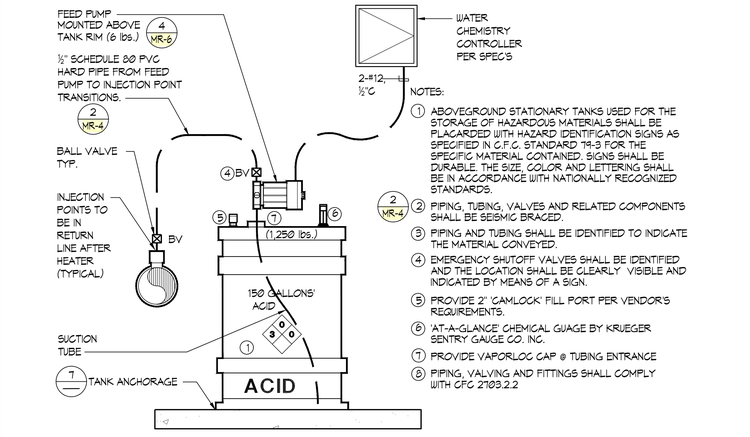


2 HEATER ANCHORAGE NO SCALE

3 PUMP ANCHORAGE NO SCALE



4 SODIUM HYPOCHLORITE FEED SCHEMATIC NO SCALE



5 MURIATIC ACID FEED SCHEMATIC NO SCALE

6 VAPOR RECOVERY TANK 1/16"=1'-0"

7 CHEMICAL TANK ANCHOR (TYP. 3 TANKS) NO SCALE

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KEYMAP

SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

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DATE ISSUED: 03/13/2020	SCALE: AS NOTED
PROJ. NO.: 1910900-1211	
SHEET NO.: MR-3	

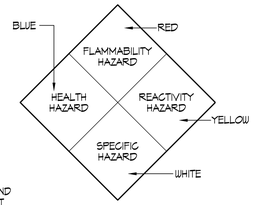
DETAILS

CHEMICAL CLASSIFICATION TABLE										
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ CLASSES	JUSTIFICATION
SODIUM HYPOCHLORITE	SODIUM HYPOCHLORITE	12.5%	7681-52-9	LIQUID	0 GAL.	500 GAL.	500 GAL.	CHEM. ROOM	CORROSIVE LIQUID	MSDS
MURIATIC ACID	HYDROCHLORIC ACID	25%	7647-01-0	LIQUID	0 GAL.	150 GAL.	500 GAL.	CHEM. ROOM	CORROSIVE LIQUID	MSDS
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-39-9	LIQUID	0 lbs.	600 lbs.	686 lbs.	CHEM. ROOM	CRYOGENIC	MSDS

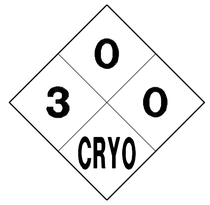
QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN CBC TABLES 307.1 (1) AND 307.1 (2).
FOR CARBON DIOXIDE GAS SEE TABLE 1.12.8(b) OF THE NFPA 1 6,000 FT³ ALLOWABLE OR 686 lbs. STORAGE PER CONTAINED AREA
PROVIDE HARD WIRED CO_2 DETECTOR ANALOX SENSOR TECHNOLOGY MODEL #AP1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 10-15 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO2 GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO_2.

RATING EXPLANATION GUIDE					
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD	SPECIFIC HAZARD	
4	CAN BE LETHAL	EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F.	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES	OXIDIZER:	OX
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F, BELOW 100° F.	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK	ACID:	ACID
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F, BELOW 200° F.	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES	CORROSIVE:	COR
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE	ALKALI:	ALK
				USE NO WATER:	-W-
				RADIATION HAZARDS:	☢
0	NO HAZARD	WILL NOT BURN	STABLE	POLYMERIZES:	P

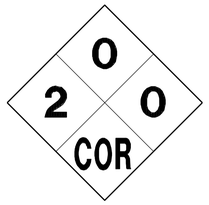
NOTES:
1. CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
2. SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.



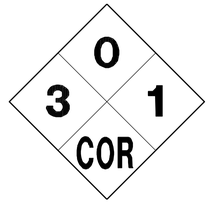
LEGEND



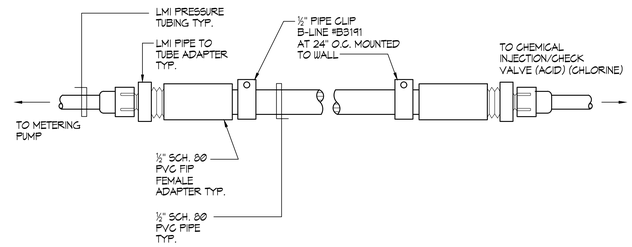
CARBON DIOXIDE



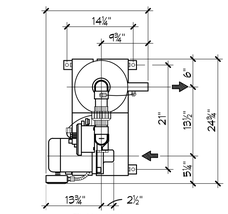
SODIUM HYPOCHLORITE



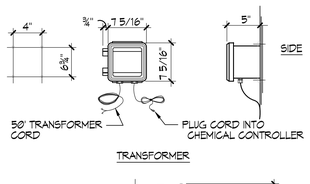
MURIATIC ACID



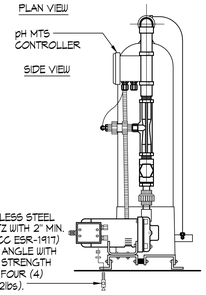
1 HAZARDOUS INFORMATION SIGNAGE NO SCALE

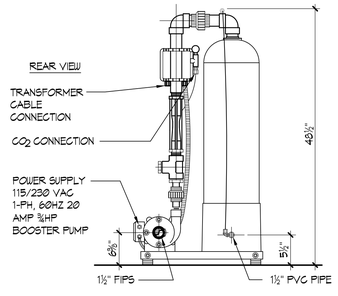


PLAN VIEW



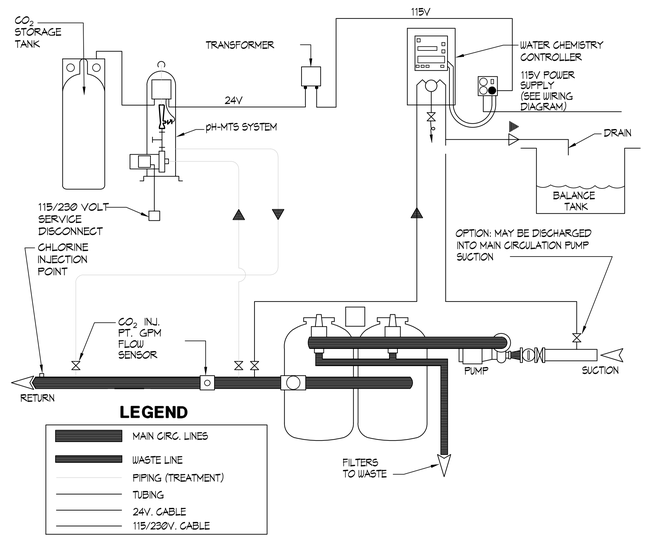
TRANSFORMER



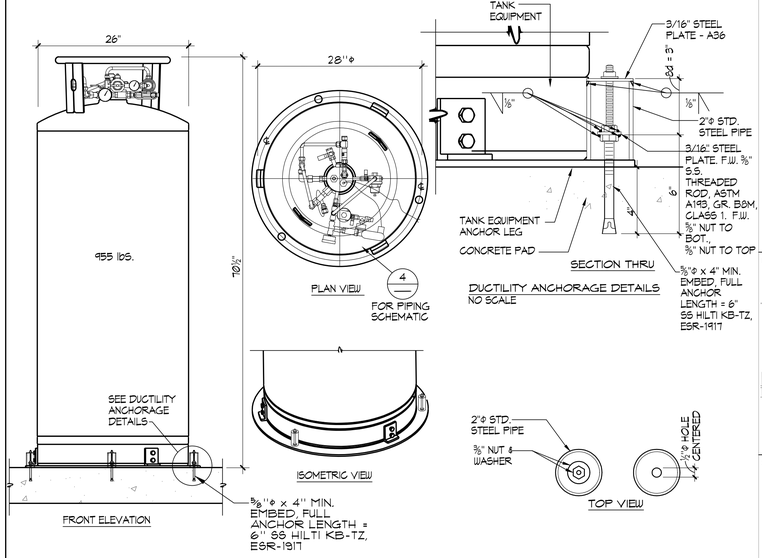


3 CARBON DIOXIDE pH MTS CONTROLLER NO SCALE

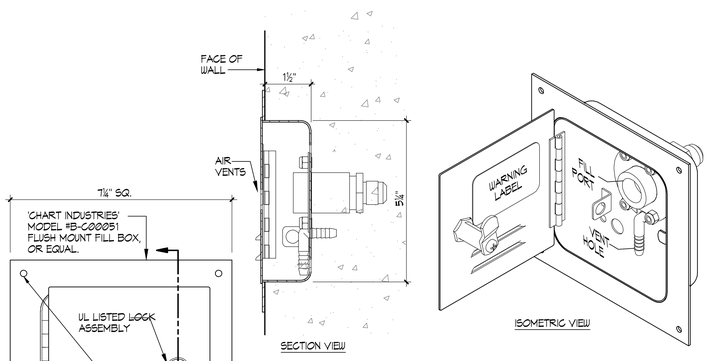
4 TYPICAL CARBON DIOXIDE pH-MTS INSTALLATION NO SCALE



2 CHEMICAL FEED PIPING DETAIL NO SCALE



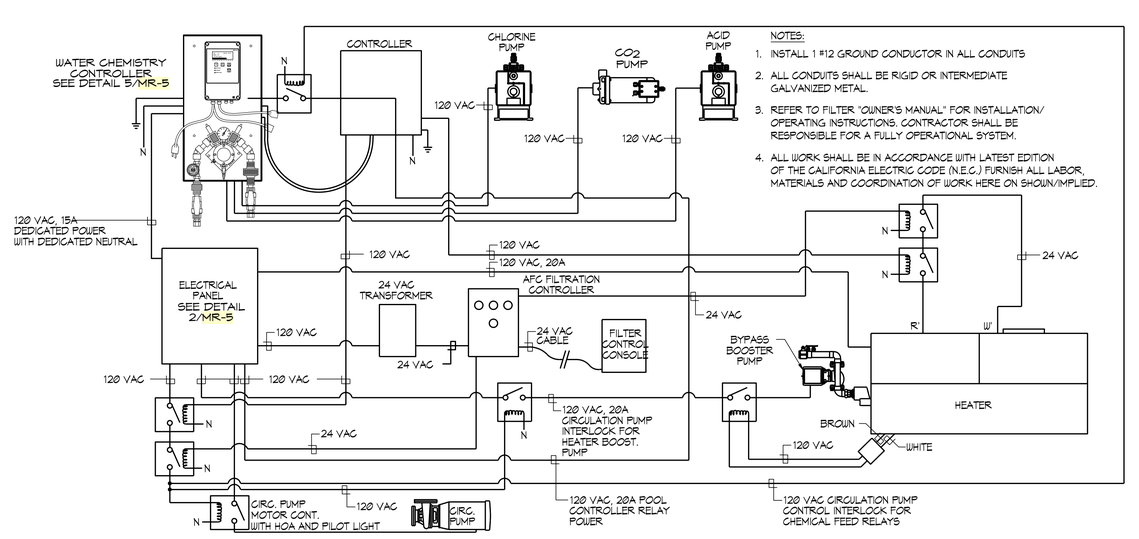
5 CO2 TANK ANCHORAGE DETAIL NO SCALE



NOTES:
1. BOX MUST INCLUDE MAXIMUM ALLOWABLE WORKING PRESSURE WARNING LABEL ON INSIDE OF DOOR.
2. VENT HOLE ON CONNECTOR SHOULD POINT DOWN TOWARD BOTTOM OF BOX.
3. CONTRACTOR TO VERIFY WITH DELIVERY COMPANY FOR IDEAL FILL PORT LOCATION AND WHERE POSSIBLE LOCATE FILL PORT WITHIN SHORTEST DISTANT RUN FROM FILL LOCATION TO TANK PLACEMENT.
4. CONTRACTOR TO VERIFY LOCK ASSEMBLY WITH DELIVERY COMPANY AND SHALL PROVIDE A SET OF KEYS FOR OWNER AT SUBSTANTIAL COMPLETION.

ANCHOR TO CMU WALL W/ 2-¼" HILTI KB3 MASONRY ANCHORS W/ 2½" EMBED (ESR-1385)

6 CO2 FLUSH MOUNT FILL BOX ½"=1"



NOTES:
1. INSTALL 1 #12 GROUND CONDUCTOR IN ALL CONDUITS
2. ALL CONDUITS SHALL BE RIGID OR INTERMEDIATE GALVANIZED METAL.
3. REFER TO FILTER "OWNER'S MANUAL" FOR INSTALLATION/ OPERATING INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.
4. ALL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE CALIFORNIA ELECTRIC CODE (N.E.C.) FURNISH ALL LABOR, MATERIALS AND COORDINATION OF WORK HERE ON SHOWN/IMPLIED.

7 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE

IDENTIFICATION STAMP
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SPORT PLANNING & DESIGN
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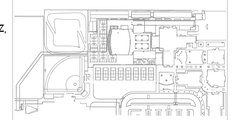
760.438.8400

KEYMAP



SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

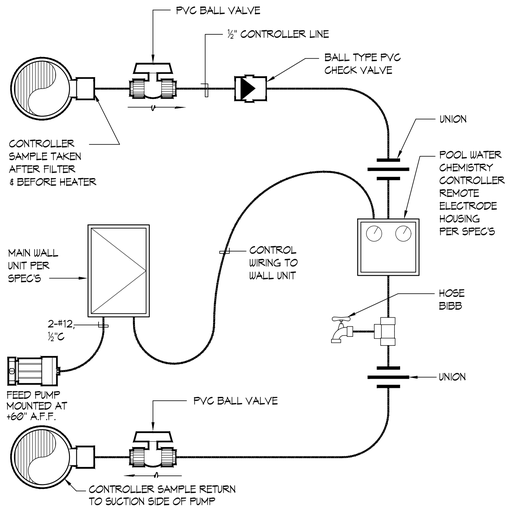
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

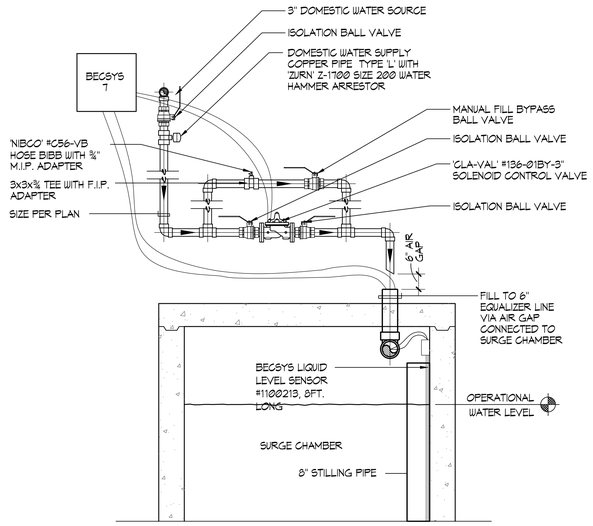
NO.	REVISIONS	DATE
△		
△		
△		
△		
△		
△		

DRAWN BY	CHECKED BY
NFC	SJF
DATE ISSUED: 03/13/2020	SCALE: AS NOTED
PROJ. NO.: 1910900-1211	
SHEET NO.: MR-4	

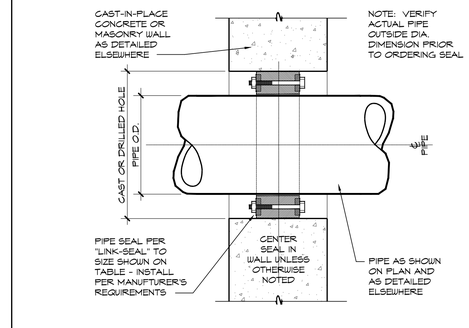
DETAILS



1 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



2 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC NO SCALE



PIPE SIZE NOMINAL	OUTSIDE DIAMETER (PIPE O.D.)	DRILLED CORE SIZE	LINK SEAL SIZE NO.	NO. OF LINKS PER SEAL
½"	Ø.840	2.0	LS-200	4
¾"	1.050	2.5	LS-275	5
1"	1.315	3.0	LS-300	4
1¼"	1.660	3.0	LS-275	7
1½"	1.900	3.5	LS-300	5
2"	2.375	4.0	LS-300	6
2½"	2.875	4.0	LS-200	9
3"	3.50	5.0	LS-300	8
3½"	4.00	6.0	LS-325	5
4"	4.50	6.0	LS-300	10
5"	5.563	8.0	LS-425	6
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-400	10
12"	12.75	16.0	LS-400	12
14"	14.00	18.0	LS-325	15
16"	16.00	18.0	LS-325	17
18"	18.00	23.0	LS-500	16
20"	20.00	25.0	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31.0	LS-500	23
28"	28.00	33.0	LS-500	24
30"	30.00	35.0	LS-500	26
32"	32.00	37.0	LS-500	28
34"	34.00	39.0	LS-500	29
36"	36.00	41.0	LS-500	30

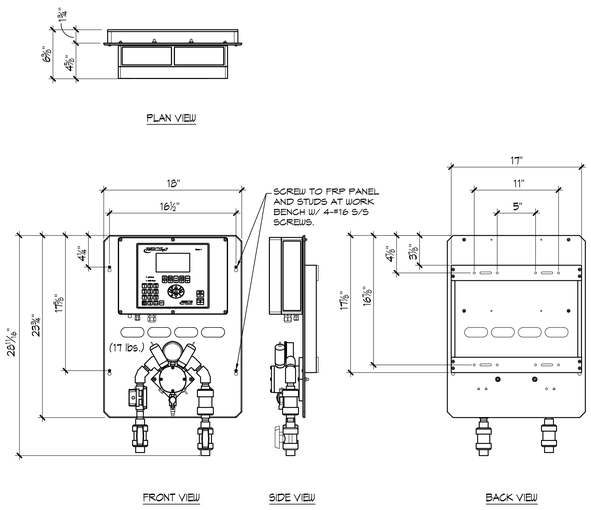
3 PIPE SEAL TO WALL / FLOOR NO SCALE

DESIGNATION: 'SP'	VOLTAGE: 120/208V 3PH 4W			LOCATION: MECHANICAL EQUIP. RM.	
	150 AMP ☒MAIN BREAKER ☐MAIN LUG			MINIMUM DEVICE A.I.C. RATING	☒10,000 ☐14,000
	☐RECESSED ☒SURFACE				PANELBOARD KEY NOTES: ① ◯ ◯ ◯

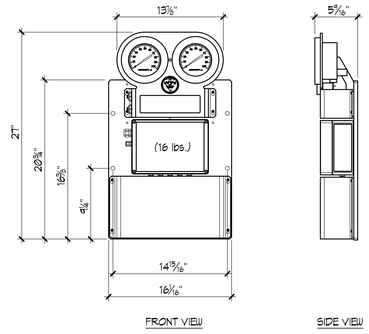
DESCRIPTION:	C/B	CIRC NO.	φ A	φ B	φ C	CIRC NO.	C/B	DESCRIPTION:
SP UNDERWATER LIGHTS	① 20/1	1	696 1200			2	20/1	FILTER AFC
		3		696 1200		4		FILTER PRESS. AMP PUMP
		5			696 1200	6		WATER CHEM. CONTROL
		7	696 360			8		WATER CHEM. RELAY
SP TIMING SYS DECK RECPT		9		720 360		10		CIRC PUMP INTERCONN.
		11			720 360	12		CIRC. PUMP MTR. CONT.
SP TIMING SYS SCOREBOARD		13	720 1440			14		HEATER IGNIT/FAN
		15		720 1440		16		HEATER RECIRC.
		17			720 1440	18		HEATER IGNIT/FAN
		19	720 1440			20		HEATER RECIRC.
CO2 FEED	20/	21		1056 720		22		FILTER PRIORITY VALVE
1 HP	2	23			1056 720	24		SPARE ①
CHLORINE FEED	20/1	25	960			26		SPACE
SPARE ①		27		720		28		
		29			720	30		
SPACE		31				32		
		33				34		
		35				36		
		37				38		
		39				40		
		41				42		
TOTAL PER PHASE			8232	7632	7632			9240 ÷ 120v = 77 AMPS
+ 25% L.C.L.			1008	1194	1194			
TOTAL			9240	8826	8826			

① GFI CIRCUIT SP = SWIMMING POOL

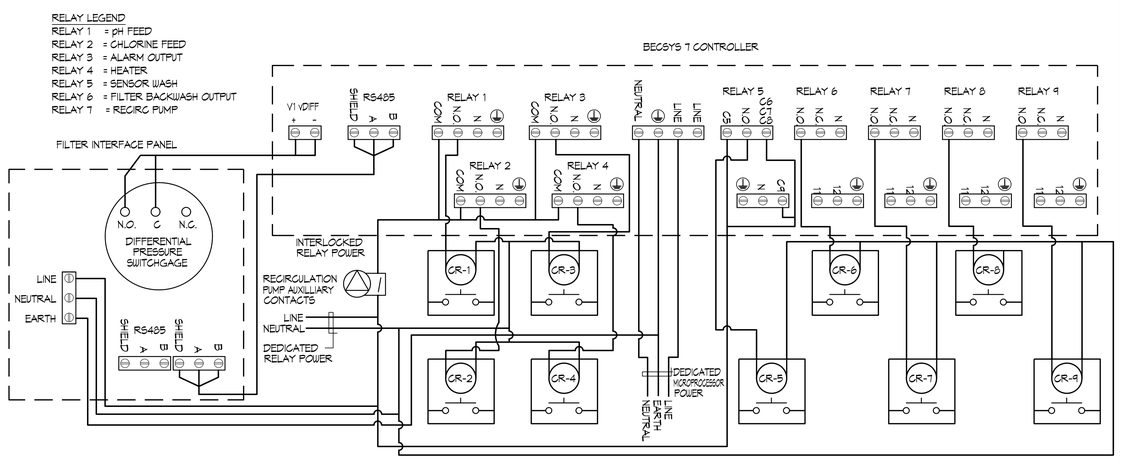
4 PANEL SCHEDULE



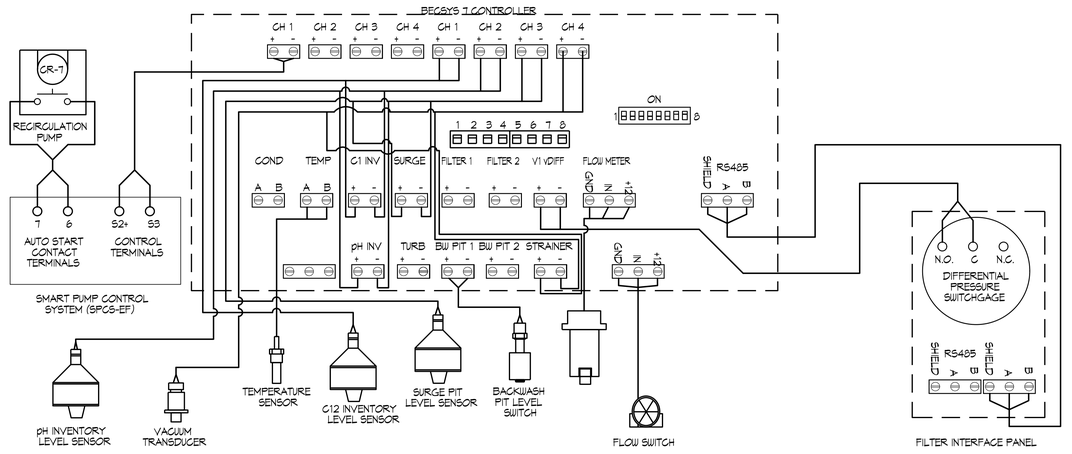
5 BECSYS 7 WATER CHEMISTRY CONTROLLER 1½"=1'-0"



6 BECSYS FILTER INTERFACE SYSTEM 1½"=1'-0"



7 BECSYS 7 CONTROLLER NO SCALE



8 BECSYS 7 CONTROLLER NO SCALE

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KEYMAP

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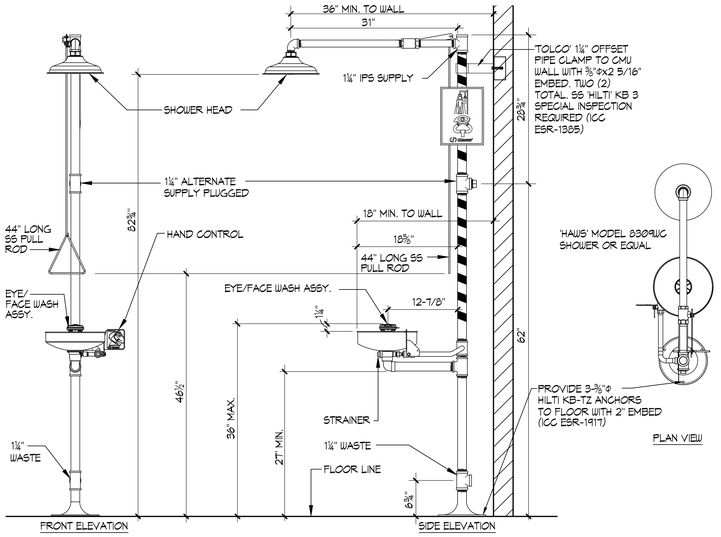
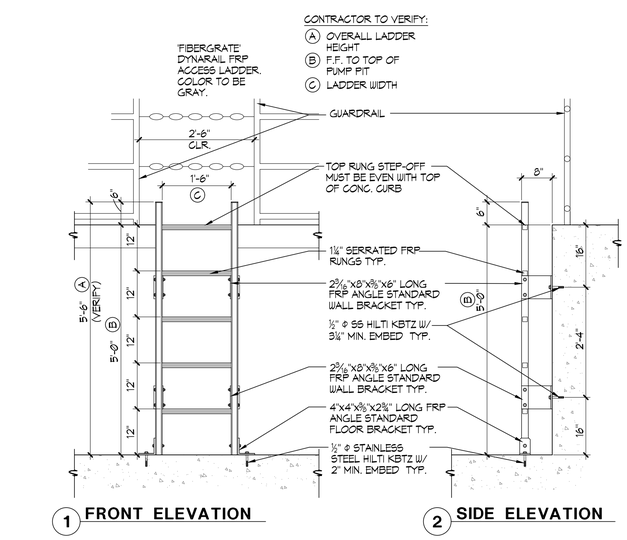


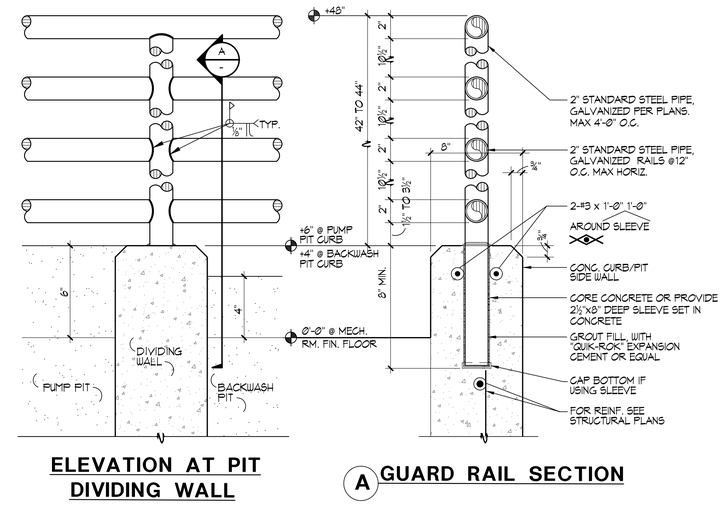
1 TYPICAL EYEWASH/SHOWER DETAIL

NO SCALE



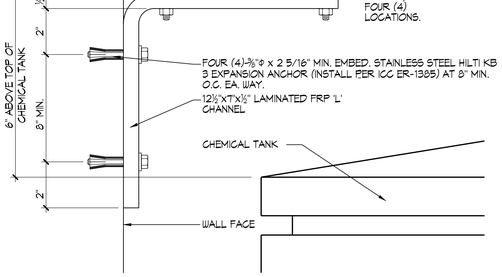
2 PUMP PIT ACCESS LADDER

¾"=1'-0"



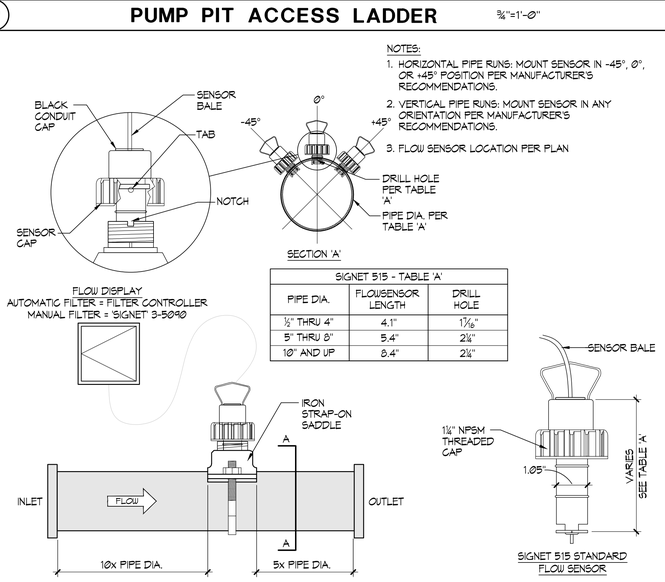
3 PIT GUARD RAIL

3"=1'-0"



4 CHEMICAL PUMP SHELF

6"=1'-0"

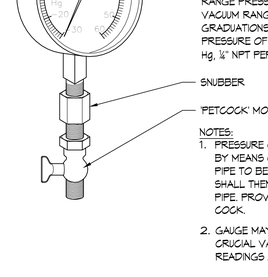


SIGNET 515 - TABLE 'A'

PIPE DIA.	FLOWSENSOR LENGTH	DRILL HOLE
½" THRU 4"	4.1"	1⅞"
5" THRU 8"	5.4"	2¼"
10" AND UP	8.4"	2¼"

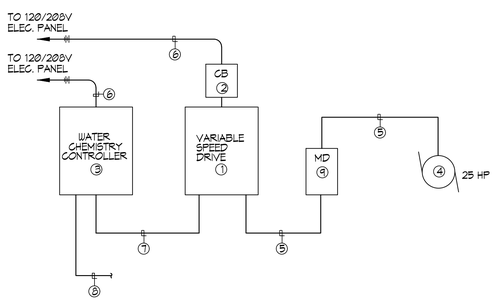
5 SIGNET FLOWMETER

NO SCALE



6 PRESSURE/VACUUM GAUGE

6"=1'-0"

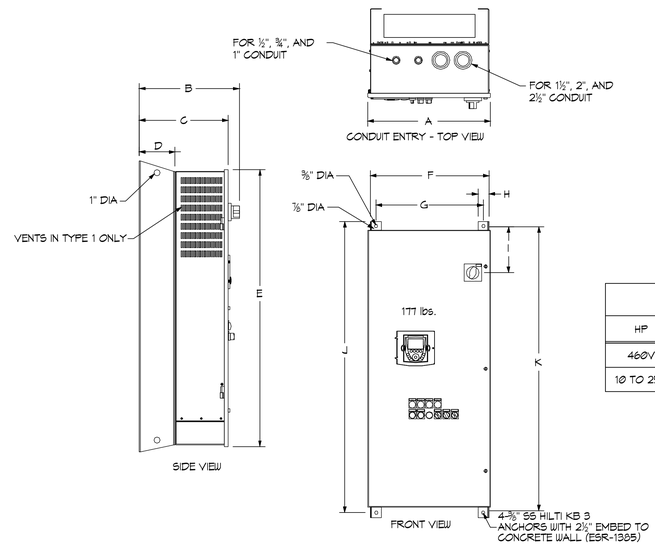


NOTES:

① VARIABLE SPEED DRIVE MOTOR CONTROL CABINET, SEE PLANS AND SPECIFICATIONS.
② ENCLOSED CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM.
③ WATER CHEMISTRY/FILTER CONTROL UNIT, SEE PLANS.
④ CONNECT TO CIRCULATION PUMP MOTOR, SEE PLANS.
⑤ MOTOR FEEDERS, SEESINGLE LINE DIAGRAM.
⑥ 120 VOLT BRANCH CIRCUITS, SEE PLANS.
⑦ ¾"C, (4) #12, (1) #12 GND. (120 VOLT CONTROL WIRING)
⑧ 24 VOLT SIGNAL AND SENSOR CABLING, SEE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
⑨ MOTOR DISCONNECT, SEE PLANS.

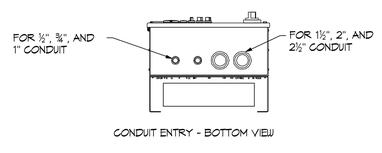
7 TYPICAL WIRING SCHEMATIC AT SPCS UNIT

NO SCALE



8 'SPCS' EKO-FLEX ENCLOSURE DIMENSIONS

NO SCALE



NOTE:
PROVIDE AT LEAST 3" OF MOUNTING CLEARANCE ON EACH SIDE OF THE DRIVE CONTROLLER.
PROVIDE AT LEAST 6" OF MOUNTING CLEARANCE ON EACH TOP AND BOTTOM OF THE DRIVE CONTROLLER

'SPCS' EKO-FLEX SIZING TABLE

HP	HP	WEIGHT	DIMENSIONS									
460V	208/230V	LBS	A	B	C	D	E	F	G	H	I	J	K
10 TO 25	7.5 TO 10	126	20.00"	13.93"	12.08"	3.01"	38.38"	19.49"	17.54"	1.86"	7.65"	41.00"	39.75"

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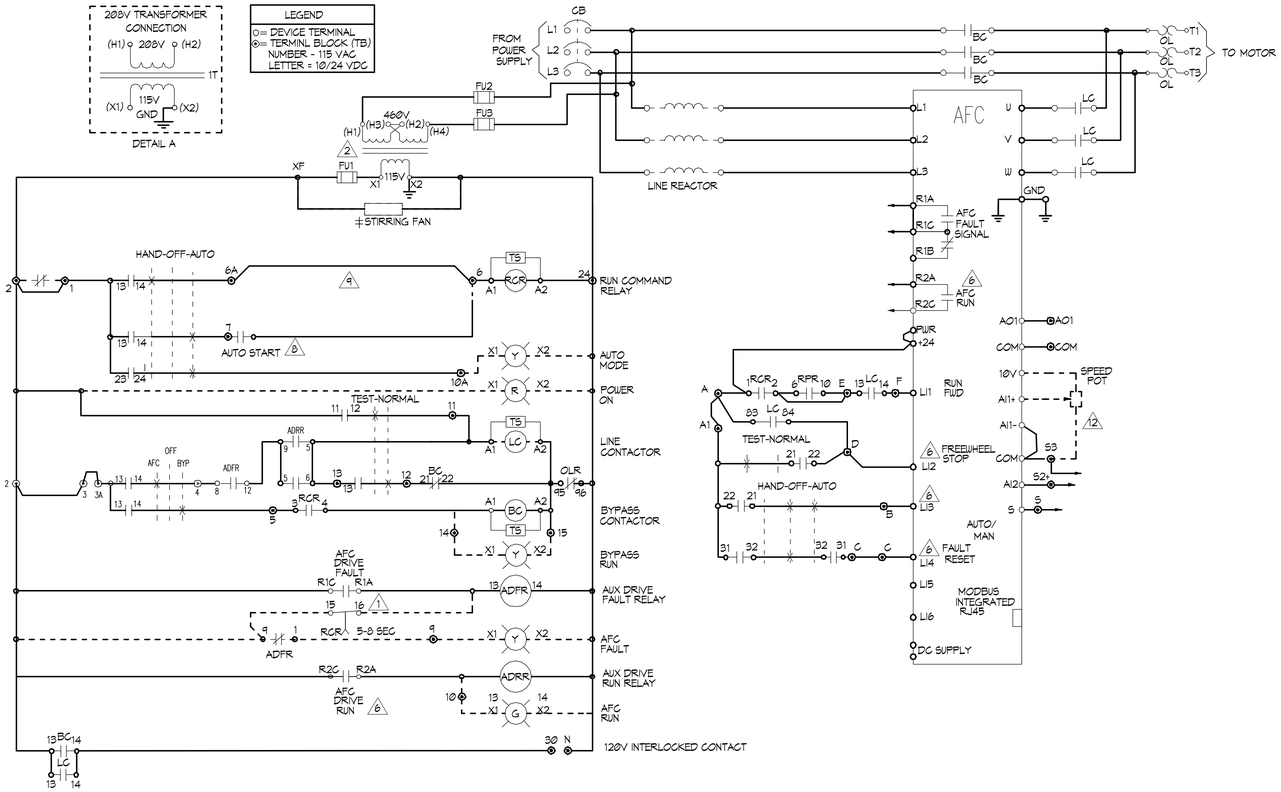
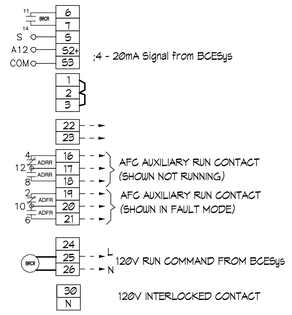
PROJ. NO.: 1910900-1211
SHEET NO.: MR-6



EKO-FLEX ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	-----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	-----	PUMPS FANS	CFG	PnF
SIM	1.1	-----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	-----	ACCELERATION (SEC)	ACC	10
SIM	1.1	-----	DECELERATION (SEC)	dEC	10
SIM	1.1	-----	LOW SPEED (HZ)	LSP	3
SIM	1.3	-----	SWITCHING FREQ. (HZ)	SCr	8
I - O	1.5	-----	2 WIRE TYPE	tCt	LEL
I - O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)	CrI2	4
I - O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2C	rUn
CtL	1.6	-----	REF. 1 CHAN	FR1	HMI
CtL	1.6	-----		FR1	AI1
CtL	1.6	-----	PROFILE	CHCF	SEP
Fun	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	nST	LI2
Fun	1.7	REFERENCE SWITCH	REF. 1B SWITCHING	rCb	LI3
Fun	1.7	REFERENCE SWITCH	REF. 1B CHAN	Frt1b	AI2
FLt	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLt	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLt	1.8	OUTPHASE LOSS	OUTPHASE LOSS	PDL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLt	LI4

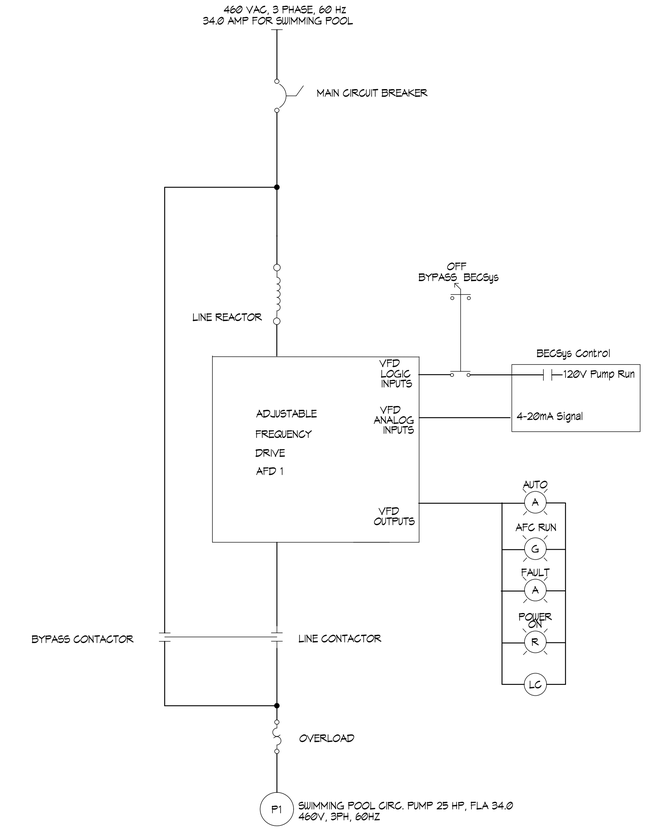
DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
STIRRING FANS	10-100 HP 460V, 7.5-50HP 208/230V	10-100 HP 460V, 7.5-50HP 208/230V	NA
VENTILIATION FAN	NA	NA	ALL HP
SPACE HEATER	NA	NA	ALL HP



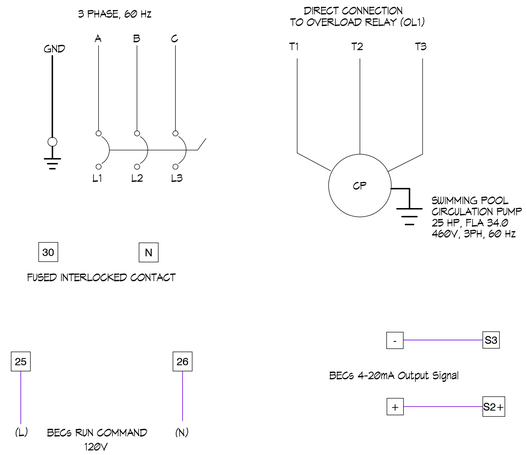
NOTES:

1. RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
2. CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
6. PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
8. BECs RUN COMMAND RELAY (BRCR)
9. JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.

1 'SPCS' EKO-FLEX VARIABLE FREQUENCY DRIVE SYSTEM SCHEMATIC NO SCALE



2 'SPCS' EKO-FLEX SINGLE LINE DIAGRAM NO SCALE



3 'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
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www.VerdeDesigninc.com

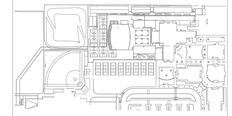
STAMP

LICENSED ARCHITECT SCOTT J. FERRY C-28022 REN 08/31/21 STATE OF CALIFORNIA

CONSULTANT

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

KEYMAP



SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

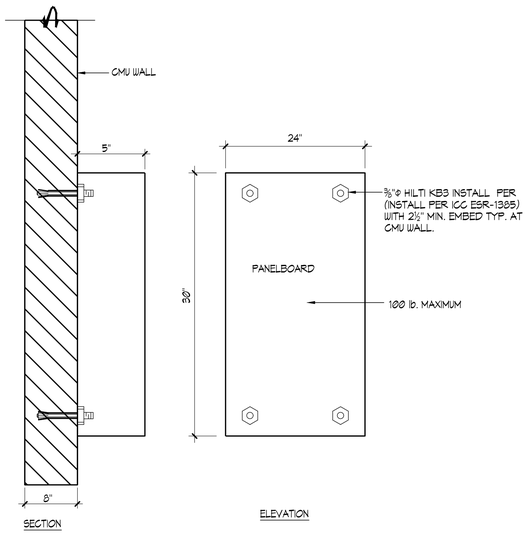
PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

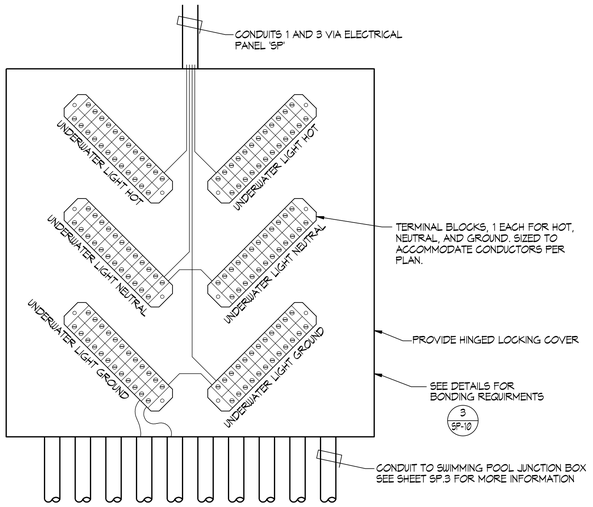
NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
NFC	SJF
DATE ISSUED	SCALE
03/13/2020	AS NOTED
PROJ. NO.	
1910900-1211	
SHEET NO.	
MR-7	



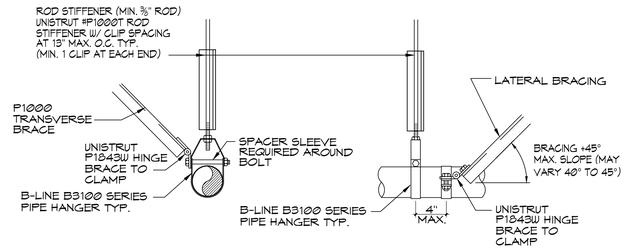
1 PANELBOARD MOUNTING DETAIL

NO SCALE



2 UNDERWATER LIGHT CONTACTOR PANEL

NO SCALE



HANGER/BRACE PERPENDICULAR

NOTE:
REFER TO STRUCTURAL DRAWING FOR CONNECTIONS TO ROOF STRUCTURAL SYSTEMS. SEE DETAIL 27/S4.1

HANGER ROD SIZES/TABLE
⅝"ø AT 4" PIPING MAX. ROD LENGTH = 30"
¾"ø AT 6" PIPING MAX. ROD LENGTH = 30"
¾"ø AT 8" PIPING MAX. ROD LENGTH = 30"
7/8"ø AT 12" PIPING MAX. ROD LENGTH = 30"

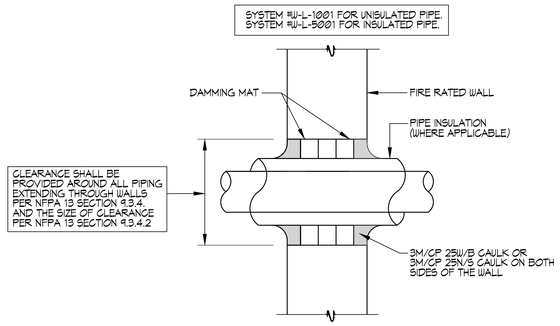
MAX. PIPE HANGER SPACING
4" PIPING OR SMALLER = 8'-0" O.C.
6" PIPING = 6'-0" O.C.
8" PIPING = 6'-0" O.C.
12" PIPING = 4'-0" O.C.

HANGER/BRACE LONGITUDINAL

NOTES:
1. FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3104CT, FELT LINED B3100F, OR PLASTIC COATED B3100C.
2. PROVIDE BRACING FOR EACH PIPE RUN IN TWO DIRECTIONS.
3. REFER TO MR.1 FOR PIPE HANGER LOCATIONS..

3 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS

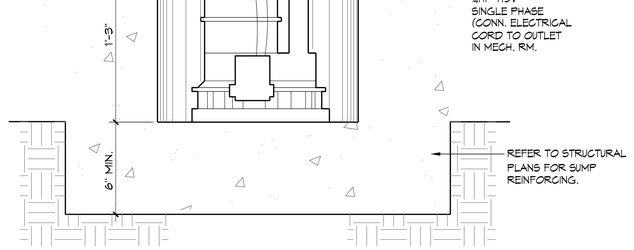
NO SCALE



DETAIL NOTES			
1.	THE MAXIMUM ANNULAR SPACE TO BE FILLED IS 2". THE MINIMUM ANNULAR SPACE IS ¾" THE MAXIMUM PIPE SIZE IS A NOMINAL 4".	5.	THE DEPTH OF THE CP 25 CAULKS DEPENDS ON THE INSULATION THICKNESS. CAULK DEPTH (MIN.) / INSULATION 1" / 1" THICK 2" / 2" - 3" THICK
2.	FOR SOLID CONCRETE WALLS, 3M/CP 25 CAULK MAY BE CENTERED IN THE WALL WITH DAMMING MATERIAL ON BOTH SIDES OF THE CAULK.	6.	IF WATER PIPE IS INSULATED, CAULK PIPE OUTSIDE OF PIPE INSULATION.
3.	USE CP 25S/L (SELF LEVELING) CAULK ON HORIZONTAL SURFACES WHEN SEALING OPENING FROM ABOVE THE PENETRATION. USE CP25N (NO SAG) CAULK ON VERTICAL SURFACES AND ON HORIZONTAL SURFACES WHEN SEALING OPENINGS FROM BELOW. USE CP 25WB CAULK ON EITHER APPLICATION.		
4.	SHRINKAGE OF CP 25 CAULKS IS ACCEPTABLE AFTER INITIAL WET DEPTH INSTALLATION.		

4 PIPE PENETRATION THRU 1-HR OR 2-HR WALL DETAIL

NO SCALE



5 SUMP PUMP AT PUMP PIT

NO SCALE

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CONSULTANT

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
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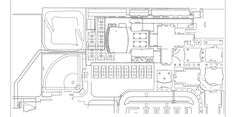
KEYMAP



SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

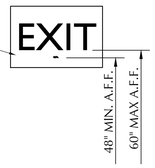
DRAWN BY	CHECKED BY
NFC	SJF
DATE ISSUED	SCALE
03/13/2020	AS NOTED

PROJ. NO.
1910900-1211

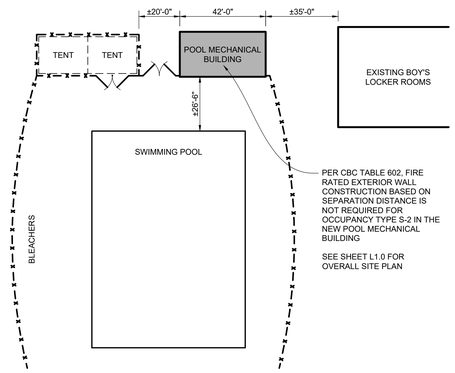
SHEET NO.
MR-8

ACCESSIBILITY SIGNAGE NOTE:
ALL ACCESSIBILITY SIGNS AND SYMBOLS SHALL BE IN COMPLIANCE WITH ALL CBC SECTIONS UNDER 1117B.5

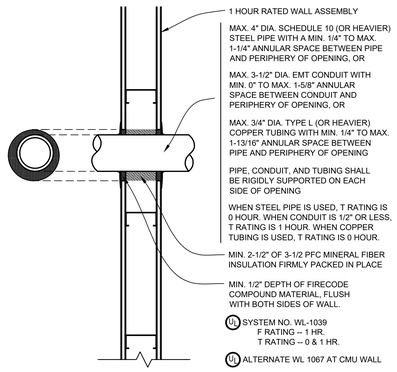
AFFIX A GRADE 2 BRAILLE EXIT SIGN AT ALL ACCESSIBLE EXITS, SIGN SHALL BE 8"x12" AND LOCATED TO THE RIGHT OF DOUBLE DOORS AND CENTERED AT 60" A.F.F.



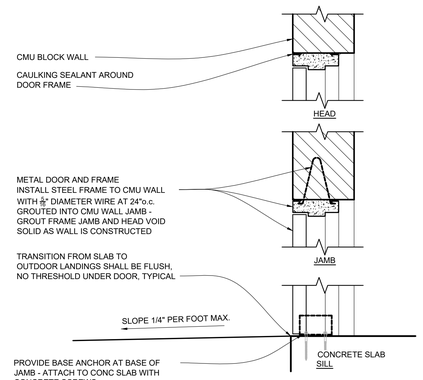
5 TACTILE EXIT SIGNAGE SCALE: N.T.S.



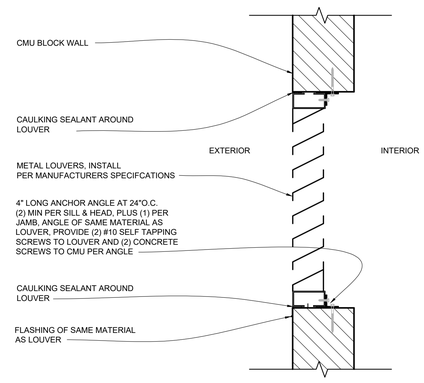
6 PARTIAL SITE PLAN SCALE: 1"= 30'-0"



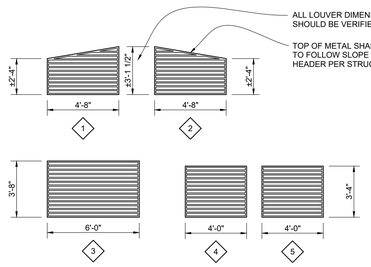
7 ONE HOUR WALL PENETRATION SCALE: 1 1/2"= 1'-0"



1 DOOR HEAD & THRESHOLD SCALE: 1 1/2"= 1'-0"



2 LOUVER DETAIL SCALE: 1 1/2"= 1'-0"



LOUVER NOTES:

1. LOUVERS SHALL BE EME 4625 WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER BY 'RUSKIN' OR EQUAL.
2. LOUVERS SHALL BE 4" DEEP AND MADE OF EXTRUDED ALUMINUM WITH A MINIMUM OF 40% FREE AREA.
3. LOUVERS SHALL HAVE A REMOVABLE INSECT SCREEN FASTENED TO THE INTERIOR SURFACE.
4. LOUVERS SHALL HAVE A KYNAR COLOR COATING TO MATCH THE DOORS AND FRAMES.
5. LOUVERS SHALL BE FASTENED TO MASONRY PER MANUFACTURERS SPECIFICATIONS AND SEALANT APPLIED AROUND COMPLETE EXTERIOR PERIMETER, SILL SHALL HAVE AN EXTENDED DRIP EDGE
6. CONTRACTOR SHALL FIELD VERIFY ALL LOUVER DIMENSIONS

3 METAL LOUVER SCHEDULE SCALE: 1/4"= 1'-0"

DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR				FRAME MATERIAL	RATING
	WIDTH	HEIGHT	THICK.	MATERIAL		
A	DBL. 3'-0"	7'-0"	1 3/4"	MTL.	STEEL	NONE
B	3'-0"	7'-0"	1 3/4"	MTL.	STEEL	NONE

DOOR NOTES:

1. CONTRACTOR SHALL VERIFY ALL DOOR SIZES & ROUGH OPENINGS IN FIELD PRIOR TO ORDERING
2. VERIFY ALL DOORS, FRAMES, AND HARDWARE WITH OWNER .
3. DOOR HARDWARE AT ALL EXIT DOORS SHALL ALLOW DOORS TO BE OPENED FROM THE INSIDE WITHOUT KEY, SPECIAL KNOWLEDGE, OR EFFORT, PER U.B.C. SEC. 1004.3.
4. MAXIMUM DOOR OPENING EFFORTS SHALL BE: 5 LBS. AT EXTERIOR DOORS,
5. ALL DOORS SHALL BE EQUIPPED WITH SINGLE EFFORT, NON-GRASP HARDWARE (i.e. LEVER) CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.
6. ALL DOORS SHALL HAVE A 10" HIGH MINIMUM FLAT SURFACE AT THE DOOR BOTTOM TO BE USED AS A KICKPLATE, NO GLAZING.
7. DOORS SHALL HAVE KEYED HARDWARE AND SECURITY DEADBOLT, VERIFY WITH SCHOOL DISTRICT.
8. ALL DOORS SHALL BE PROVIDED WITH FLOOR MOUNTED DOME STOPS LOCATED NEAR WALL FOR DOOR TO OPEN 175°.
9. REFER TO PROJECT SPECIFICATIONS FOR DOOR MANUFACTURER

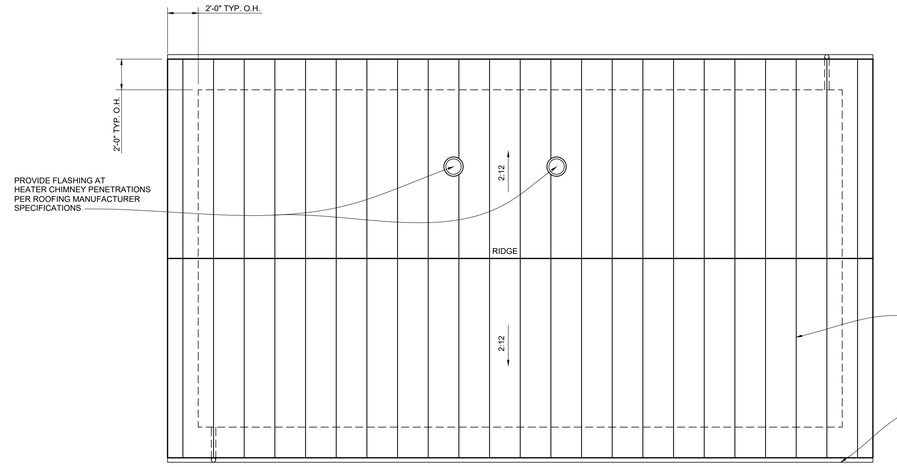
DOOR HARDWARE:

LOCKS/LATCHSETS:	DEADBOLT A#6 AND STOREROOM LOCK A#15
HINGES:	B#1
STOPS:	D#2
THRESHOLDS:	E#1
KICKPLATE:	F#2
DOOR TOP DRIP:	F#8

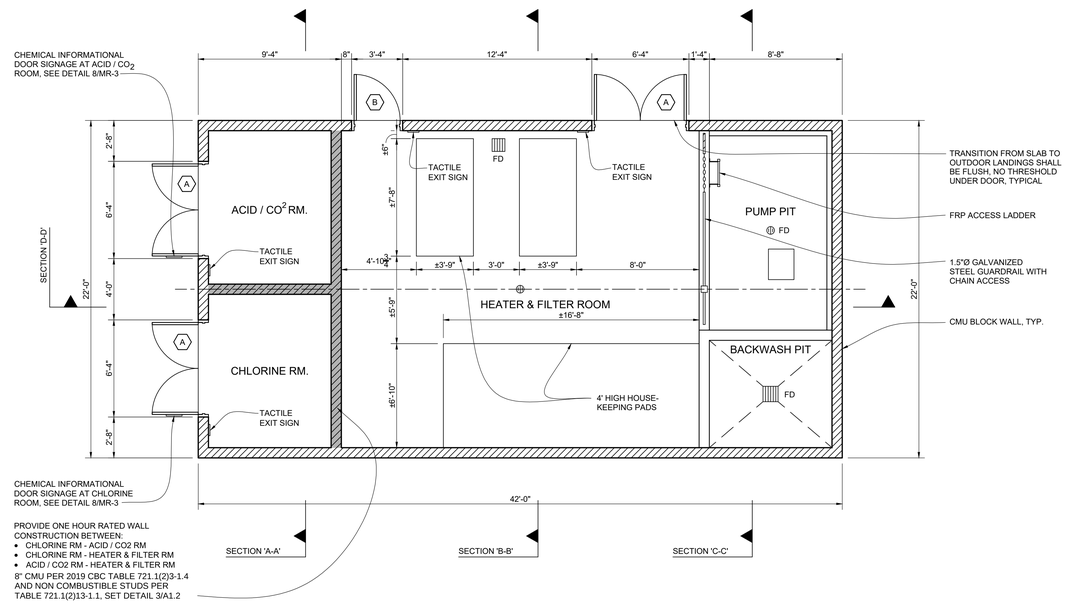
REFER TO PROJECT SPECIFICATIONS FOR DOOR MANUFACTURER AND HARDWARE INFORMATION

8 DETAIL

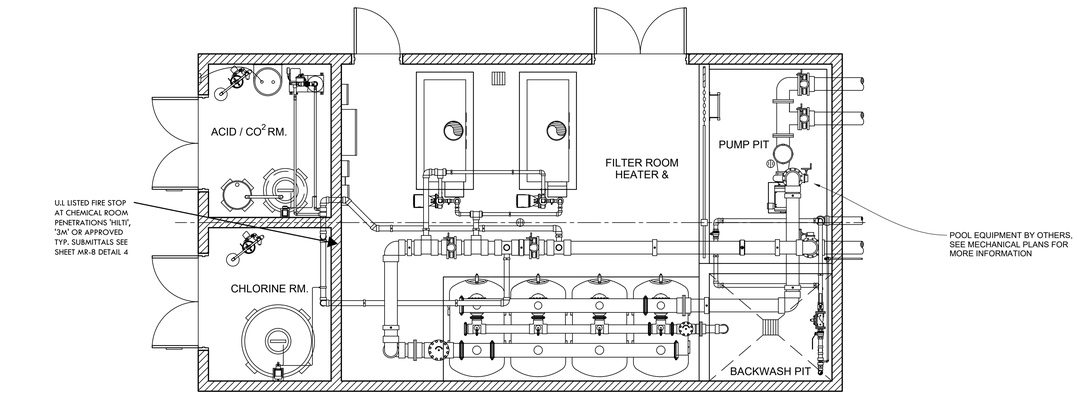
4 DOOR FRAME AND SCHEDULE SCALE: N.T.S.



ROOF PLAN



FLOOR PLAN



EQUIPMENT PLAN

PROJECT NORTH

POOL MECHANICAL BUILDING PLANS SCALE: 1/4"= 1'-0"

PROJECT DATA:

OCCUPANCY CLASSIFICATION:	S-2
CONSTRUCTION TYPE:	II-B
NON-SPRINKLERED	
BUILDING AREA:	924 S.F.
OVERHANGS:	396 S.F.
TOTAL:	1,320 S.F.
ALLOWABLE AREA INCREASES:	N/A

PER CBC TABLE 503, THIS SINGLE OCCUPANCY BUILDING TYPE IS ALLOWED 26,000 S.F. PER STORY, 3 STORY MAXIMUM

PER CBC TABLES 601 AND 602, FIRE RATED CONSTRUCTION IS NOT REQUIRED OCCUPANCY AND CONSTRUCTION TYPE PER STORY, 3 STORY MAXIMUM

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APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

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www.VerdeDesigninc.com

STAMP

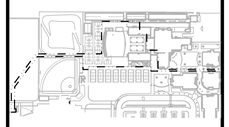
REGISTERED LANDSCAPE ARCHITECT
MARK S. BASTIANI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

WILLIAM C. KEMPF
ARCHITECT
911 Center Street, Suite F
Santa Cruz, CA 95060
831 459-0951
www.wckempf.com

LICENSED ARCHITECT
WILLIAM C. KEMPF
No. 25962
SEPTEMBER 30, 2021
EXPIRATION
STATE OF CALIFORNIA

KEYMAP



SHEET TITLE

FLOOR & ROOF PLANS, ARCHITECTURAL DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
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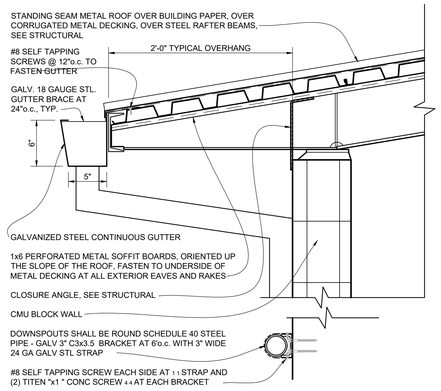
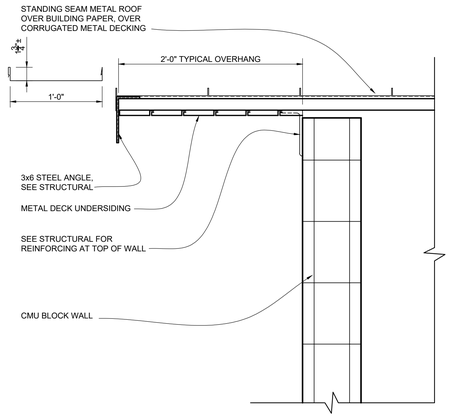
NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
WCK	CS
DATE ISSUED	SCALE
03/13/2020	1/4"=1'-0"
PROJ. NO.	
1910900-1211	
SHEET NO.	
A1.1	

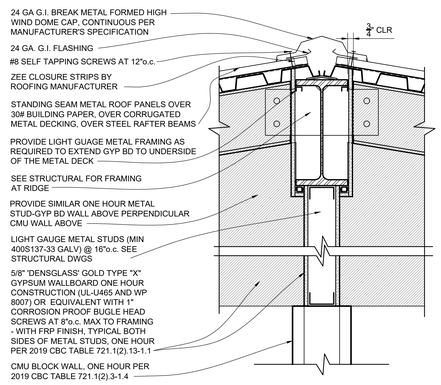
DRAWING NAME: J:\2 Active Jobfiles\Verde Design\3 Active\Stockton USD\7 Chavez 2019\1 WCK Work\Plan Check 1\Pool & Lockers\Arch 2020_03-27 WCK\1 Pool Building\Chavez Arch 2020_04-01.dwg
PLOT DATE: 04-01-20 PLOTTED BY: wckem



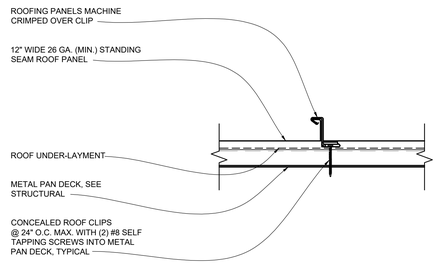
1 EAVE DETAIL SCALE: 1 1/2"= 1'-0"



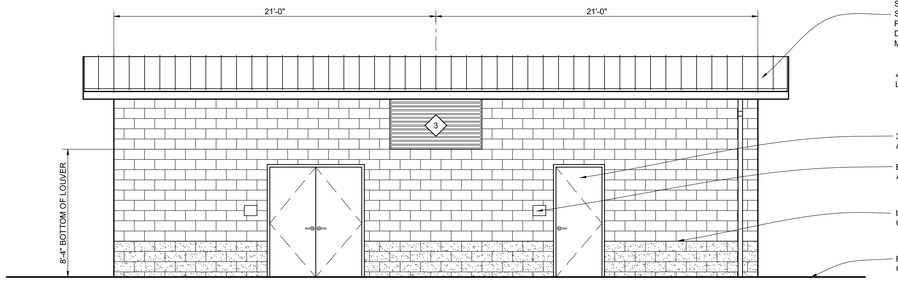
2 RAKE DETAIL SCALE: 1 1/2"= 1'-0"



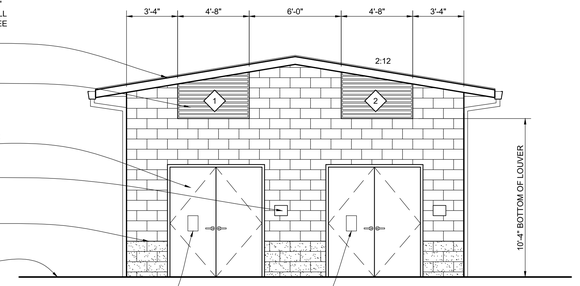
3 PARTITION DETAIL SCALE: 1 1/2"= 1'-0"



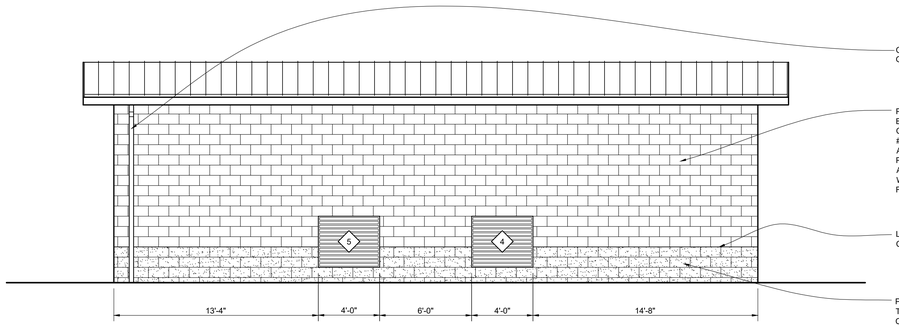
4 ROOF ATTACHMENT DETAIL SCALE: 3"= 1'-0"



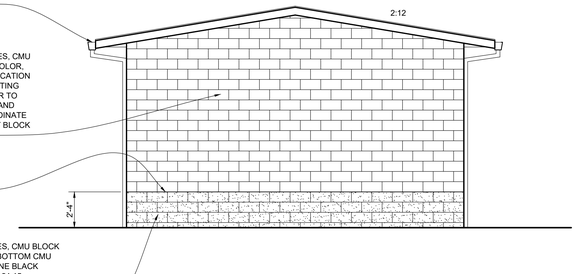
NORTH ELEVATION



WEST ELEVATION



SOUTH ELEVATION



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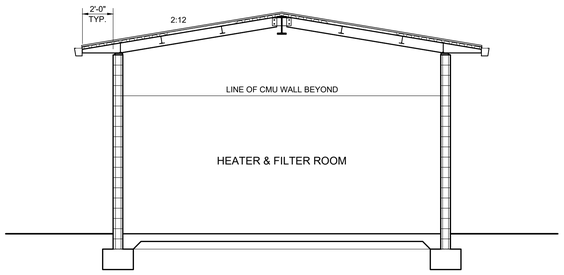

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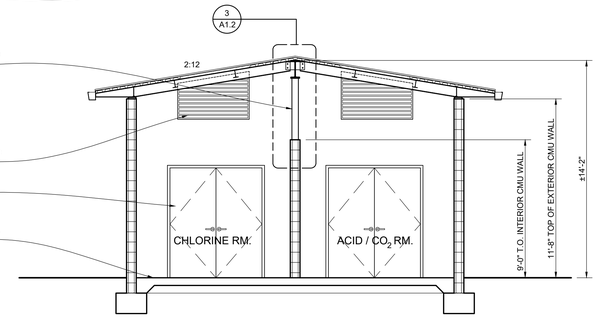

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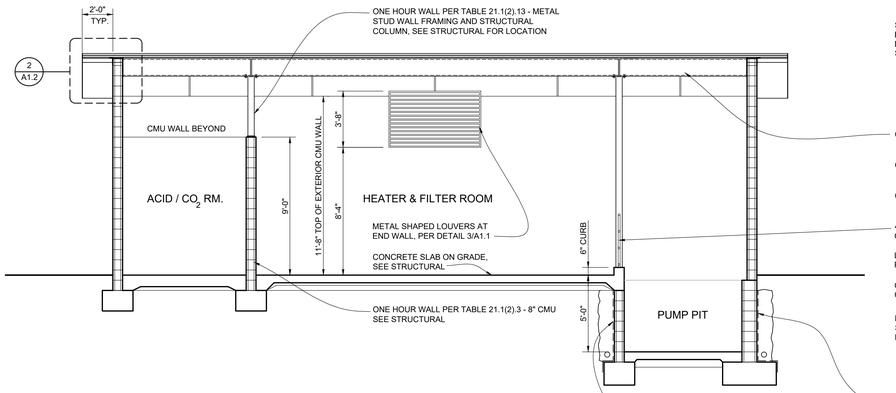

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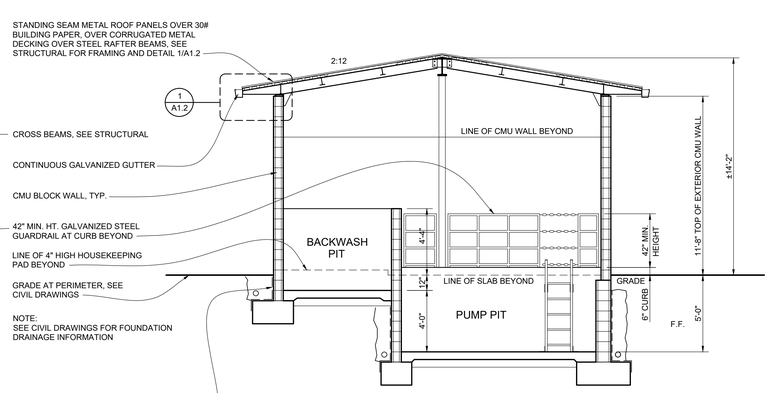

SECTION 'C-C'

EXTERIOR ELEVATIONS AND SECTIONS SCALE: 1/4"= 1'-0"

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PLOT DATE: 05-28-20 PLOTTED BY: wckem

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 01/19/2024

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BADEAUX
No. 4099
Signature
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

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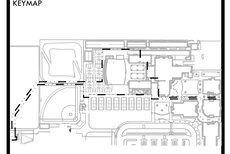
831 459-0951
www.wckempf.com

LICENSED ARCHITECT
WILLIAM C. KEMPF
No. 25962
SEPTEMBER 30, 2021
EXPIRATION
Signature

KEYMAP



SHEET TITLE

EXTERIOR ELEVATIONS & ARCHITECTURAL SECTIONS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

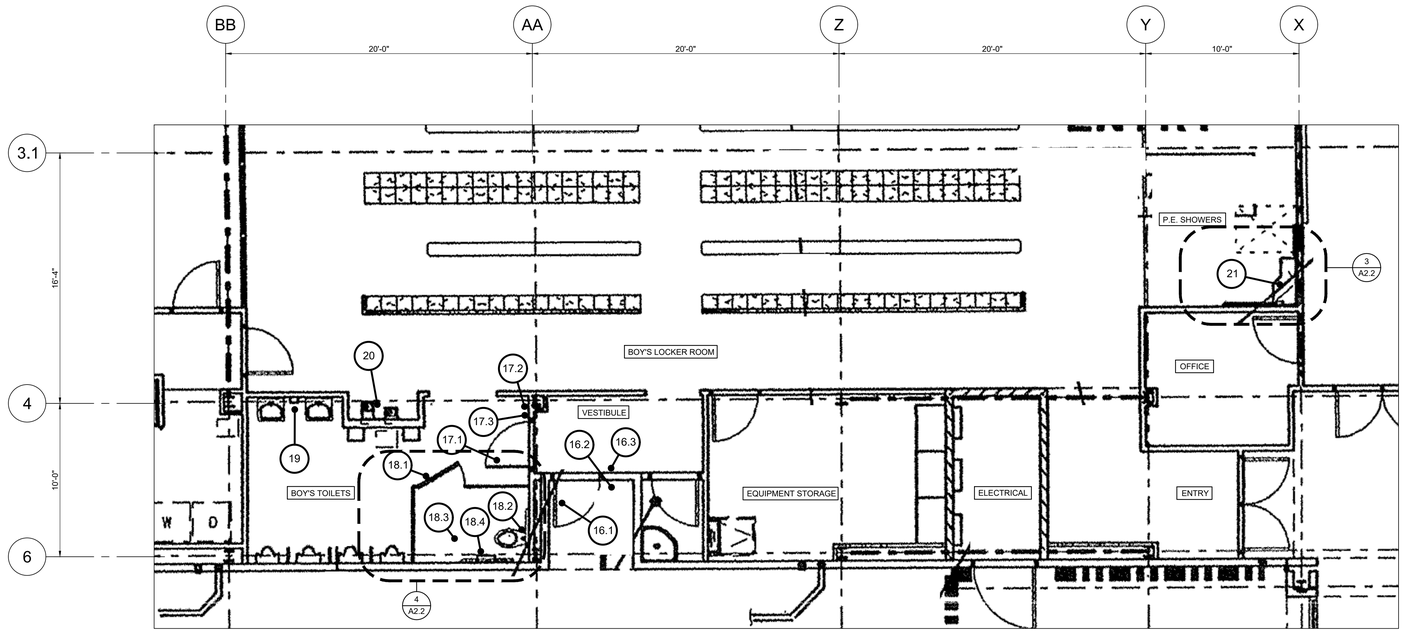
SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

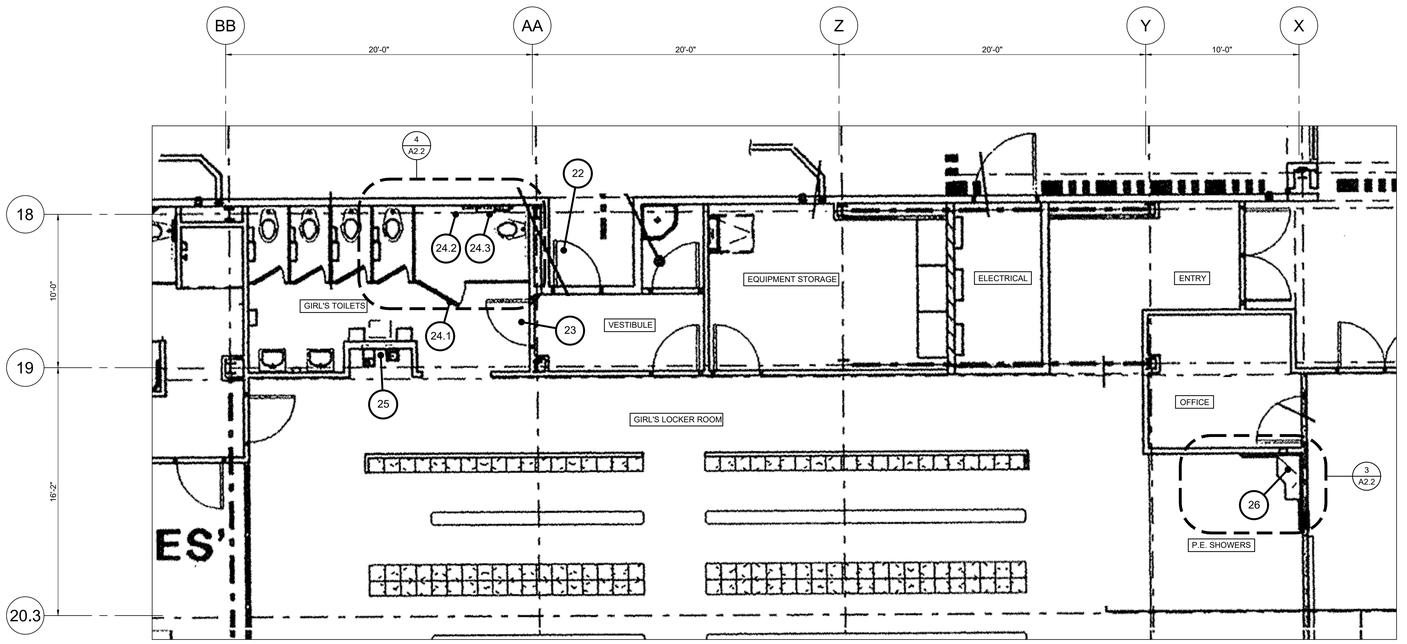
DRAWN BY	CHECKED BY
WCK	CS
DATE ISSUED	SCALE
03/13/2020	1/4"=1'-0"

PROJ. NO.
1910900-1211

SHEET NO.
A1.2



BOY'S LOCKER ROOM - PARTIAL PLAN



GIRL'S LOCKER ROOM - PARTIAL PLAN

SHEET NOTES:

(THESE NOTES ARE NUMBERED TO CORRELATE WITH THE ACCESSIBILITY REPORT PREPARED BY JONATHAN ADLER DATED NOVEMBER 25, 2019.)

BOY'S LOCKER ROOM

16.1 EXTERIOR ENTRY DOOR - ADJUST THE EXISTING CLOSURE OR REPLACE WITH NEW ARE REQUIRED TO ENSURE A MAXIMUM OPERATING FORCE OF 5# AND A MINIMUM CLOSING SPEED FROM 90 DEGREES TO 12 DEGREES OF 5 SECONDS

16.2 TACTILE ROOM ID SIGN - PROVIDE NEW ENTRANCE, EXIT AND ROOM IDENTITY SIGNS PER DETAIL 6A/A2.4, 6B/A2.4, AND 8/A2.4

16.3 TACTILE EXIT SIGN - PROVIDE NEW ENTRANCE, EXIT AND ROOM IDENTITY SIGNS PER DETAIL 6A/A2.4, 6B/A2.4, AND 8/A2.4

17.1 VESTIBULE TO TOILET ROOM - ADJUST THE EXISTING CLOSURE OR REPLACE WITH NEW ARE REQUIRED TO ENSURE A MAXIMUM OPERATING FORCE OF 5# AND A MINIMUM CLOSING SPEED FROM 90 DEGREES TO 12 DEGREES OF 5 SECONDS

17.2 TACTILE ROOM ID SIGN - PROVIDE NEW ENTRANCE, EXIT AND ROOM IDENTITY SIGNS PER DETAIL 6A/A2.4, 6B/A2.4, AND 8/A2.4

17.3 DOOR LANDING - RELOCATE DOOR AND FRAME TO PROVIDE A MINIMUM OF 18" CLEAR FROM THE EDGE OF THE DOOR TO THE ADJACENT PERPENDICULAR WALL FINISH ON THE STRIKE SIDE OF THE DOOR PER DETAIL 1/A2.4

18.1 TOILET STALL ENTRY DOOR - REPAIR OR REPLACE DOOR HINGES TO ENSURE SELF CLOSING DOOR OPERATION.

18.2 TOILET FIXTURE LOCATION - PROVIDE NEW TILE WAINSCOTING AT THE WC TO ENSURE A CLEARANCE OF 17" MINIMUM AND 18" MAXIMUM FROM THE FACE OF THE WAINSCOT FINISH TO THE CENTER OF THE EXISTING WC.

18.3 TOILET FIXTURE MANEUVERING SPACE - RELOCATE THE EXISTING TOILET PARTITIONS OR PROVIDE NEW PARTITIONS AS REQUIRED TO PROVIDE A MINIMUM CLEARANCE OF 60" WIDE PERPENDICULAR TO SIDE WALL FINISHES AND 56" DEEP (FOR WALL HUNG WC AND 59" DEEP FOR FLOOR MOUNT WC) PERPENDICULAR TO REAR WALL FINISHES. SEE DETAIL 12/A2.4

18.4 TOILET PAPER DISPENSER LOCATION - REMOVE EXISTING ABANDONED RECESSED TOILET PAPER HOLDER. RELOCATE EXISTING TOILET PAPER HOLDER PER DETAIL 11/A2.2. PROVIDE A MINIMUM CLEARANCE OF 1½" TO BOTTOM OF THE GRAB BARS

19 LAVATORY - PROVIDE INSULATION OF WATER PIPE AND WASTE PIPE PER DETAIL 18/A2.4

20 DRINKING FOUNTAIN - RAISE DRINKING FOUNTAIN TO PROVIDE REQUIRED KNEE CLEARANCE PER DETAIL 14/A2.4

21 SHOWER - PROVIDE NEW SHOWER WALL PARTITION AND RECONFIGURE SHOWER TO COMPLY WITH DETAILS 16/A2.4 AND 17/A2.4

GIRLS LOCKER ROOM

22 ENTRY DOOR - ADJUST THE EXISTING CLOSURE OR REPLACE WITH NEW ARE REQUIRED TO ENSURE A MAXIMUM OPERATING FORCE OF 5# AND A MINIMUM CLOSING SPEED FROM 90 DEGREES TO 12 DEGREES OF 5 SECONDS

23 VESTIBULE DOOR TO TOILET ROOM - ADJUST THE EXISTING CLOSURE OR REPLACE WITH NEW ARE REQUIRED TO ENSURE A MAXIMUM OPERATING FORCE OF 5# AND A MINIMUM CLOSING SPEED FROM 90 DEGREES TO 12 DEGREES OF 5 SECONDS

24.1 TOILET STALL DOOR - REPAIR OR REPLACE DOOR HINGES TO ENSURE SELF CLOSING DOOR OPERATION.

24.2 TOILET PAPER DISPENSER LOCATION - REMOVE EXISTING ABANDONED RECESSED TOILET PAPER HOLDER. RELOCATE EXISTING TOILET PAPER HOLDER PER DETAIL 11/A2.4. PROVIDE A MINIMUM CLEARANCE OF 1½" TO BOTTOM OF THE GRAB BARS

24.3 FHP DISPOSAL BIN - RELOCATE SANITARY NAPKIN DISPOSAL UNIT TO THE SIDEWALL BETWEEN THE REAR WALL AND TOILET PAPER DISPENSER. THE UNIT SHALL BE MOUNTED BELOW THE GRAB BARS WITH THE OPENING HEIGHT AT A MIN OF 19" ABOVE THE FINISH FLOOR PER DETAIL 11/A2.4

25 DRINKING FOUNTAIN - RAISE DRINKING FOUNTAIN TO PROVIDE REQUIRED KNEE CLEARANCE PER DETAIL 14/A2.4

26 SHOWER - PROVIDE NEW SHOWER WALL PARTITION AND RECONFIGURE SHOWER TO COMPLY WITH DETAILS 16/A2.4 AND 17/A2.4

PROJECT DATA:

OCCUPANCY CLASSIFICATION: E
CONSTRUCTION TYPE: II-B
NON-SPRINKLERED

SCOPE OF WORK:
ACCESSIBILITY UPGRADES FOR THE EXISTING BOY'S AND GIRL'S LOCKER ROOMS PER REPORT BY JONATHAN ADLER DATED NOVEMBER 25, 2019

PROJECT NORTH

SCALE: 1/4"= 1'-0"

BOY'S & GIRL'S LOCKER ROOMS - PARTIAL PLANS

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No. 4089
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No. 25962
SEPTEMBER 30, 2021
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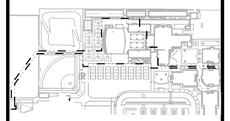
KEYMAP



SHEET TITLE

BOY'S & GIRL'S LOCKER ROOMS - PARTIAL PLANS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

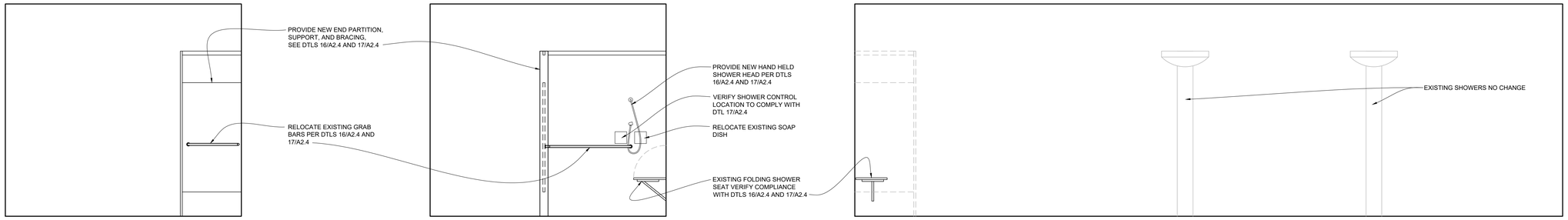
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
WCK	CS
DATE ISSUED	SCALE
03/13/2020	1/4"=1'-0"
PROJ. NO.	
1910900-1211	
SHEET NO.	
A2.1	

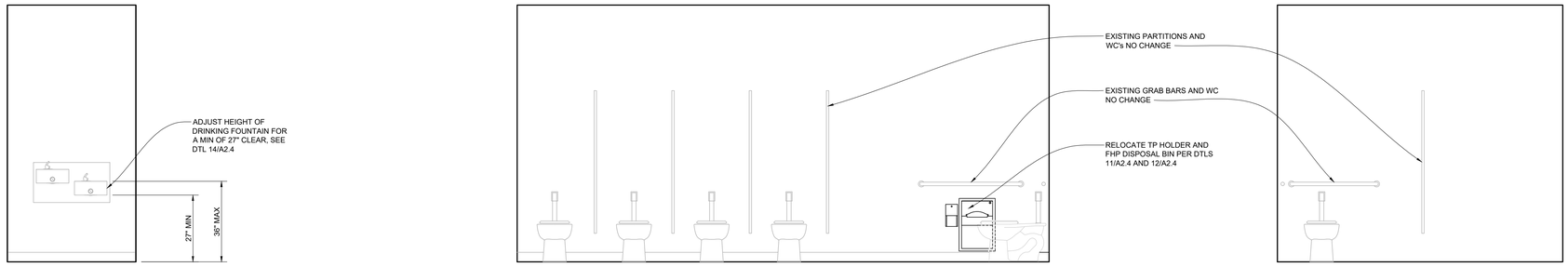
DRAWING NAME: J:\2 Active Jobfiles\Verde Design\3 Active\Stockton USD\7 Chavez 2019\1 WCK Work\Plan Check 1\Pool & Lockers\Arch 2020_03-27 WCK\2 Lockers\A21 Chavez Arch.dwg
PLOT DATE: 04-01-20 PLOTTED BY: wckem



SHOWERS - WEST ELEVATION

SHOWERS - NORTH ELEVATION

SHOWERS - EAST ELEVATION



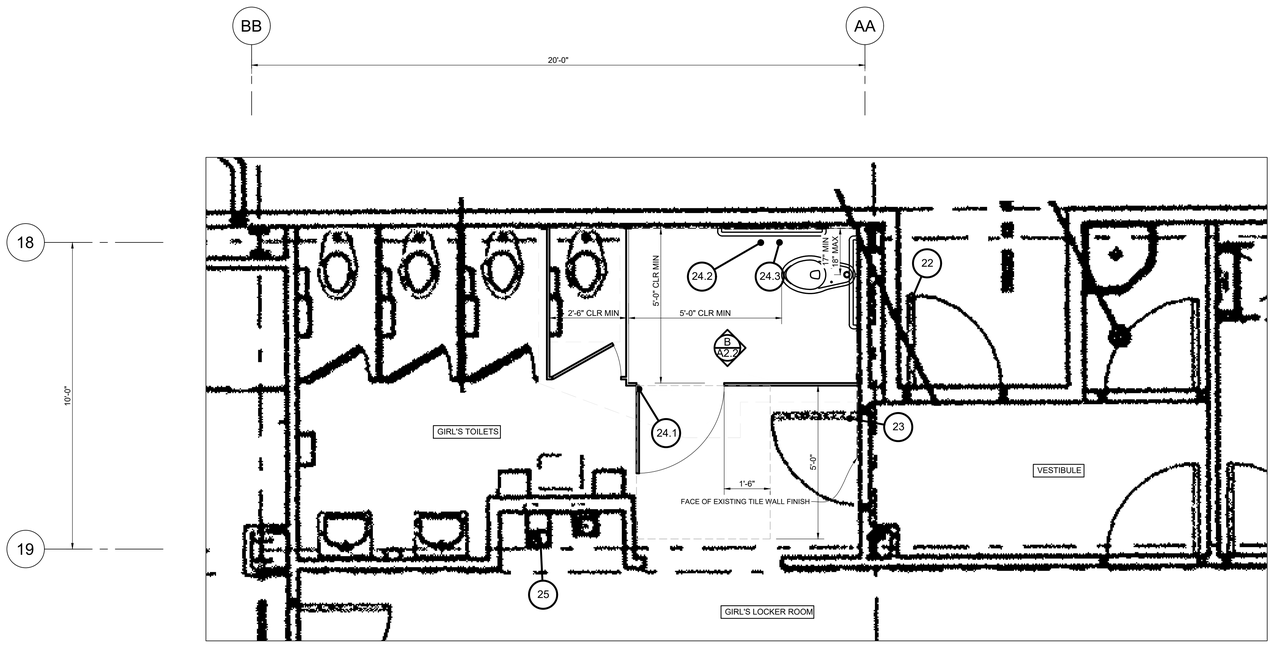
DRINKING FOUNTAIN - NORTH ELEVATION

TOILETS - NORTH ELEVATION

TOILETS - EAST ELEVATION

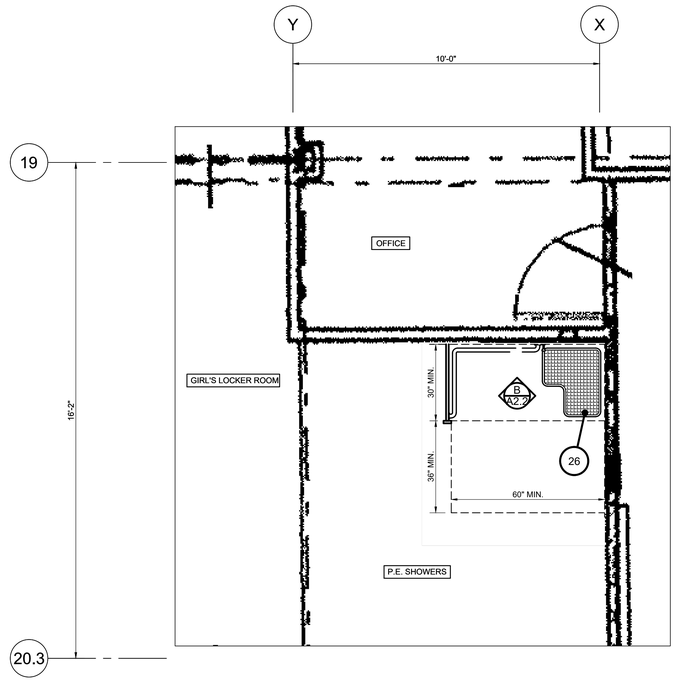
B GIRL'S LOCKER ROOM - INTERIOR ELEVATIONS

SCALE: 1/2" = 1'-0"



GIRL'S LOCKER ROOM - TOILETS

PROJECT NORTH



GIRL'S LOCKER ROOM - SHOWERS

A GIRL'S LOCKER ROOM - DETAILED PLANS

SCALE: 1/2" = 1'-0"

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No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

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WILLIAM C. KEMPF
No. 25962
SEPTEMBER 30, 2021
EXPIRATION
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE

GIRL'S LOCKER ROOM DETAILED PLANS & INTERIOR ELEVATIONS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

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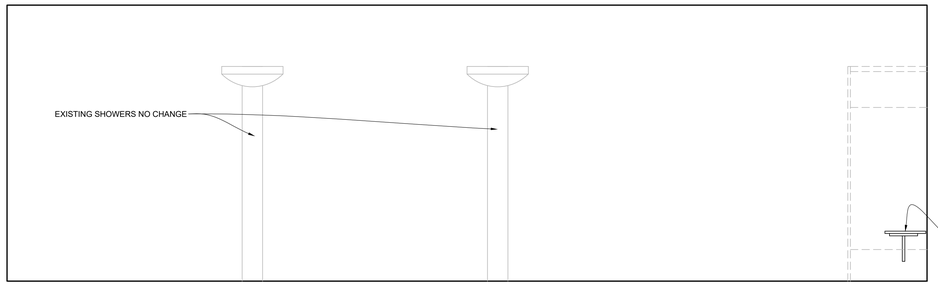
WCK	CS
DATE ISSUED	SCALE
03/13/2020	1/2"=1'-0"

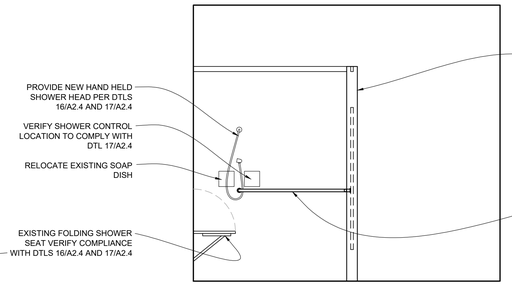
PROJ. NO. 1910900-1211

SHEET NO. A2.2

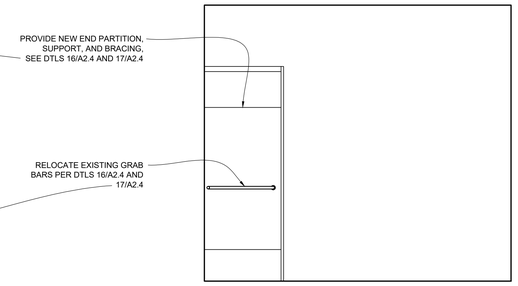
DRAWING NAME: J:\2 Active Jobfiles\Verde Design\3 Active\Stockton USD\7 Chavez 2019\1 WCK Work\Plan Check 1\Pool & Lockers\Arch 2020_03-27 WCK\2 Lockers\A21 Chavez Arch.dwg
PLOT DATE: 04-01-20 PLOTTED BY: wckem



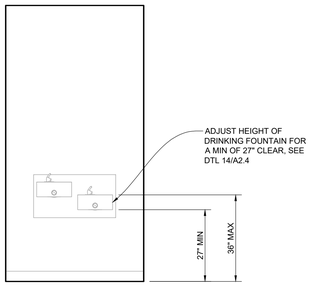
SHOWERS - EAST ELEVATION



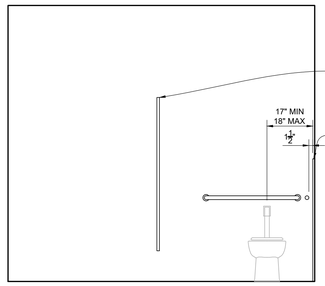
SHOWERS - SOUTH ELEVATION



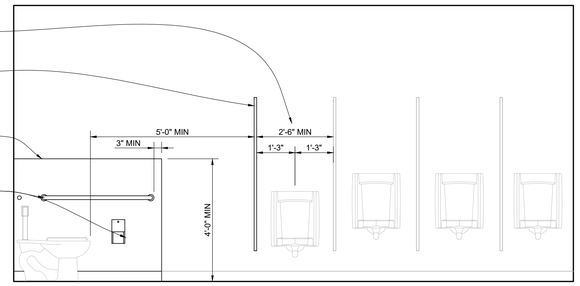
SHOWERS - WEST ELEVATION



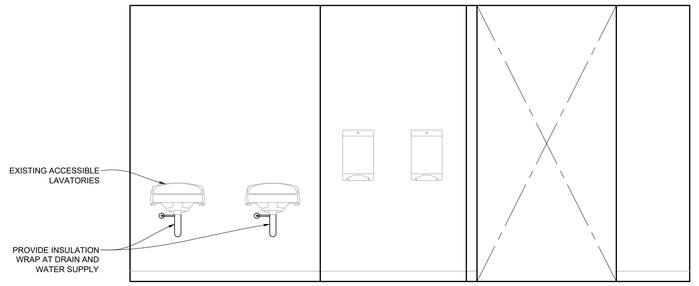
D.F. - SOUTH ELEVATION



TOILETS - EAST ELEVATION



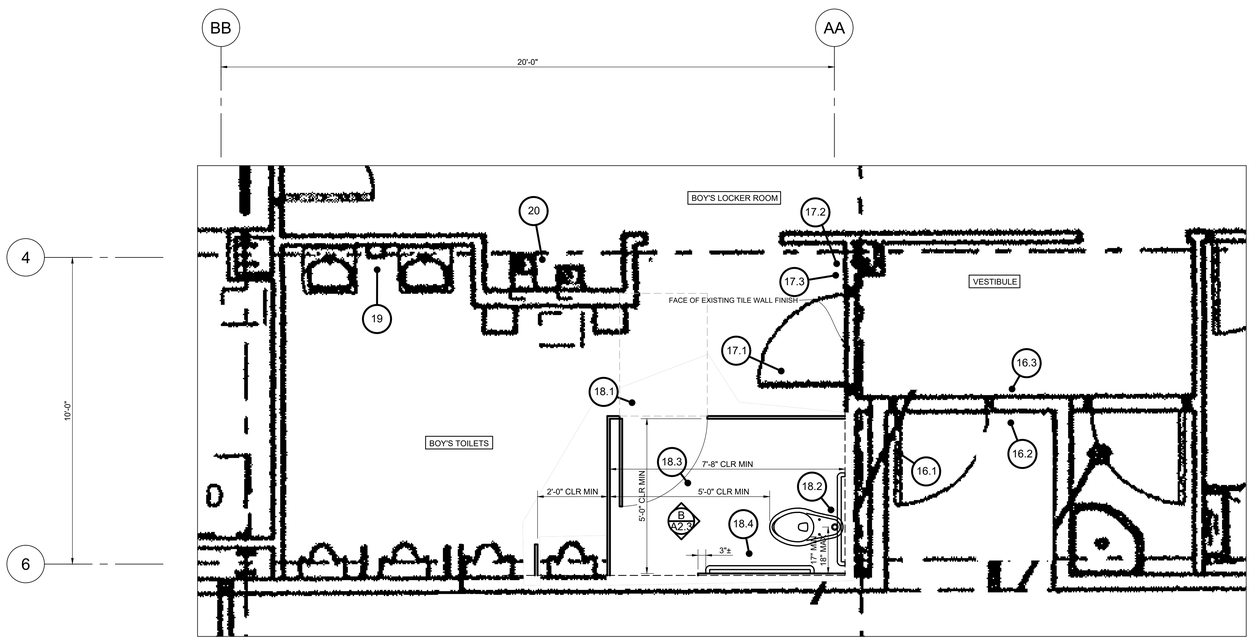
TOILETS - SOUTH ELEVATION



TOILETS - NORTH ELEVATION

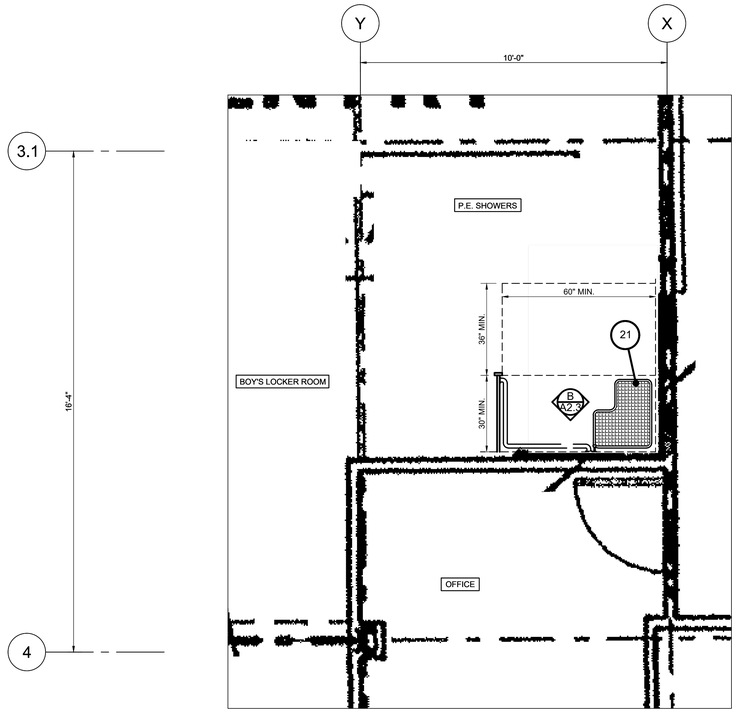
B BOY'S LOCKER ROOM - INTERIOR ELEVATIONS

SCALE: 1/2" = 1'-0"



BOY'S LOCKER ROOM - TOILETS

PROJECT NORTH



BOY'S LOCKER ROOM - SHOWERS

A BOY'S LOCKER ROOM - DETAILED PLANS

SCALE: 1/2" = 1'-0"

DRAWING NAME: J:\2 Active Jobfiles\Verde Design\3 Active\Stockton USD\7 Chavez 2019\1 WCK Work\Plan Check 1\Pool & Lockers\Arch 2020_03-27 WCK\2 Lockers\A21 Chavez Arch.dwg
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SEPTEMBER 30, 2021
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KEYMAP

SHEET TITLE

BOY'S LOCKER ROOM DETAILED PLANS & INTERIOR ELEVATIONS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
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DRAWN BY	CHECKED BY
WCK	CS
DATE ISSUED	SCALE
03/13/2020	1/2"=1'-0"

PROJ. NO. 1910900-1211

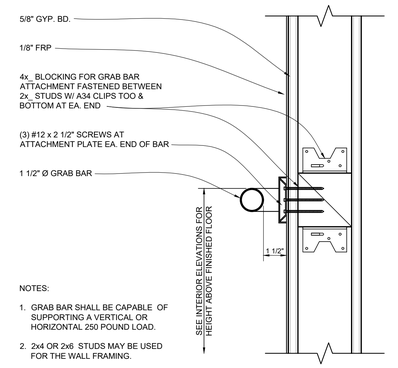
SHEET NO. A2.3

5 N.T.S.

4 N.T.S.

3 N.T.S.

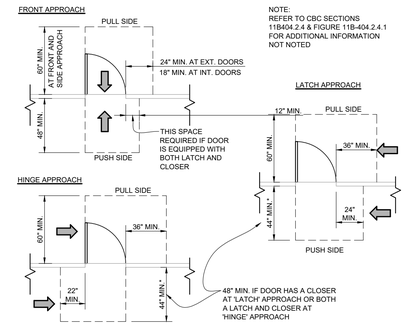
2 GRAB BAR ATTACHMENT N.T.S.



NOTES:

1. GRAB BAR SHALL BE CAPABLE OF SUPPORTING A VERTICAL OR HORIZONTAL 250 POUND LOAD.
2. 2x4 OR 2x6 STUDS MAY BE USED FOR THE WALL FRAMING.

1 ACCESSIBLE DOOR CLEARANCES N.T.S.



NOTE:
REFER TO CBC SECTIONS 11B404.2.4.& FIGURE 11B-404.2.4.1 FOR ADDITIONAL INFORMATION NOT NOTED

SCALE: NO SCALE

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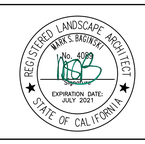

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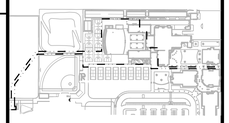
www.wckempf.com

KEYMAP



SHEET TITLE

ACCESSIBILITY DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
WCK	CS
DATE ISSUED	SCALE
03/13/2020	1/4"=1'-0"

PROJ. NO.
1910900-1211

SHEET NO.
A2.4

6B ACCESSIBLE ENTRANCE SIGNAGE N.T.S.

AFFIX AN INTERNATIONAL SYMBOL OF ACCESSIBILITY AT ACCESSIBLE ENTRIES, SIGN SHALL BE 6"x6" MIN. & LOCATED TO THE RIGHT OF EXTERIOR DOORS, CENTERED AT 60" A.F.F.

PERSONS MUST BE ABLE TO APPROACH WITHIN 3" OF THE SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR

SEE DTL 8/A2.4 FOR SIGN LOCATAIONS

6A TACTILE EXIT SIGNAGE N.T.S.

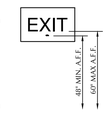
ACCESSIBILITY SIGNAGE NOTE:
ALL ACCESSIBILITY SIGNS AND SYMBOLS SHALL BE IN COMPLIANCE WITH ALL 2016 CBC SECTIONS UNDER 11B-703

AFFIX A GRADE 2 BRAILLE EXIT SIGN AT ALL ACCESSIBLE EXITS, SIGN SHALL BE LOCATED ON THE LATCH SIDE OF SINGLE DOORS AND TO THE RIGHT OF DOUBLE DOORS. HEIGHT OF LETTERING SHALL BE 5/8" MIN. AND 2" MAX. SIGNS WITH RAISED CHARACTERS & BRAILLE SHALL BE LOCATED 48" MIN. ABOVE THE FINISH FLOOR MEASURED FROM LOWEST BRAILLE LINE AND 60" MAX. ABOVE FINISH FLOOR MEASURED FROM BASELINE OF HIGHEST LINE OF RAISED CHARACTERS

SIGNS WITH TACTILE CHARACTERS SHALL HAVE A CLEAR FLOOR SPACE OF 18" MIN. SQ. CENTERED ON TACTILE CHARACTERS BEYOND THE ARC OF THE DOOR SWING

DIRECTIONAL SIGNAGE SHALL COMPLY WITH 2016 CBC SECTION 11B-216.3

SEE DTL 8/A2.4 FOR SIGN LOCATAIONS



7 ACCESSIBLE RESTROOM SIGNAGE N.T.S.

PERMANENT SIGNAGE TO BE INSTALLED A MINIMUM OF 9 INCHES FROM THE CENTER OF THE SIGN TO THE LATCH SIDE EDGE OF THE DOOR. THE CHARACTER AND BACKGROUND OF THE SIGN TO BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND THE COLOR AND CONTRAST OF THE SIGN SHALL CONTRAST WITH THE COLOR AND CONTRAST OF THE WALL. TACTILE SIGNAGE MUST PROVIDE A CLEAR FLOOR SPACE LEADING UP TO THE SIGN OF 18 INCHES WIDE BY 18 INCHES LONG CENTERED ON THE SIGN WHICH IS OUTSIDE THE ARC OF ANY DOOR SWING FROM THE CLOSED TO THE 45° POSITION.

* TACTILE SIGNAGE SHALL COMPLY WITH CBC 11B-703.2

12" DIAMETER CIRCLE 1/4" THICK

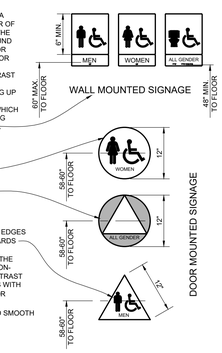
12" DIAMETER CIRCLE 1/4" THICK WITH 1/4" THICK CONTRASTING TRIANGLE SUPERIMPOSED WITHIN THE CIRCLE

EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARDS

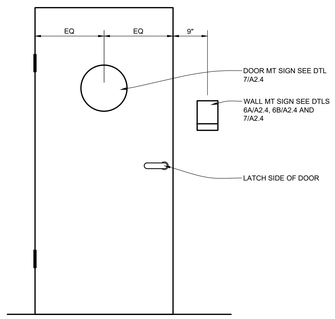
THE CHARACTER AND BACKGROUND OF THE SIGN IS EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND THE COLOR AND CONTRAST OF THE SIGN DISTINCTIVELY CONTRASTS WITH THE COLOR AND CONTRAST OF THE DOOR

ALL SIGN EDGES SHALL BE BEVELED AND SMOOTH

SEE DTL 8/A2.4 FOR SIGN LOCATAIONS



8 DOOR ELEVATION - SIGNAGE N.T.S.

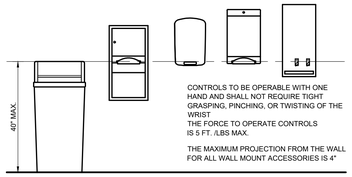


13 ACCESSIBLE TOILET ACCESSORIES N.T.S.

UNOBSTRUCTED FORWARD REACH= 48" MAX. HT. AND 15" MIN., SIDE REACHES= 54" MAX. HT. AND 9" MIN. ABOVE FINISH FLOOR

OPERABLE PARTS OF ALL FIXTURES OR ACCESSORIES LOCATED 40" ABOVE FLOOR.

AT LEAST ONE MIRROR ABOVE ACCESSIBLE COUNTER SHALL BE INSTALLED WITH BOTTOM EDGE AT 40" MAXIMUM ABOVE FINISH FLOOR



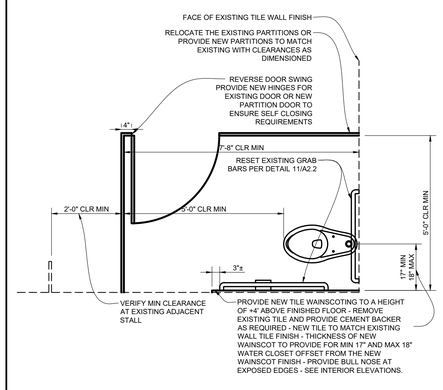
CONTROLS TO BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST
THE FORCE TO OPERATE CONTROLS IS 5 FT. /LBS MAX.

THE MAXIMUM PROJECTION FROM THE WALL FOR ALL WALL MOUNT ACCESSORIES IS 4"

COAT HOOKS AND SHELVING LOCATED 48" MAX. ABOVE FLOOR

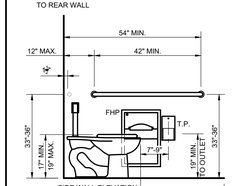
IF MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE SHALL HAVE A SHELF LOCATED 44" MAX. FROM FLOOR

12 ACCESSIBLE TOILET PLAN N.T.S.



11 ACCESSIBLE TOILET REQUIREMENTS N.T.S.

NOTE:
CLEARANCE AROUND A TOILET SHALL BE 60" MIN. MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56" MIN. DEEP FOR WALL HUNG TOILETS AND 59" MIN. DEEP FOR FLOOR MOUNTED TOILETS, MEASURED PERPENDICULAR TO REAR WALL



SIDE WALL ELEVATION

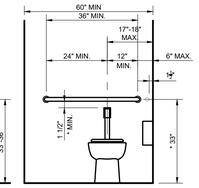
CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON WIDE SIDE OF TOILET AREAS PER CBC 11B-604.6

60" MIN. CLEAR AT ACCESSIBLE TOILET COMPARTMENT WITH SIDE OPENING DOOR. DOOR WIDTH SHALL BE 34" MIN.

FHP DISPOSAL BIN SHALL BE MOUNTED ON THE SIDEWALL BETWEEN THE TOILET PAPER HOLDER AND THE REAR WALL WITH THE OPENING A MIN OF 19" ABOVE THE FINISH FLOOR

ALL WATER CLOSET SEATS SHALL BE ELONGATED TYPE AND EITHER OF THE OPEN FRONT TYPE OR HAVE AN AUTOMATIC SEAT COVER DISPENSER PER CPC 411.3.

* REAR GRAB BAR ALLOWED AT MAX. 36" A.F.F. AT TANK TYPE TOILETS, THE SPACE BETWEEN THE GRAB BAR AND TOP OF TANK SHALL BE 1 1/2" MINIMUM PER CBC 11B-604.5

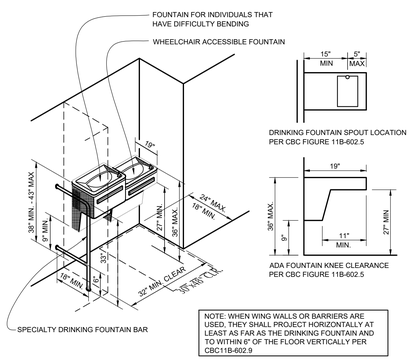


REAR WALL ELEVATION

GRAB BARS WITH CIRCULAR CROSS SECTION SHALL HAVE OUTSIDE DIA. OF 1 1/4" AND 2" MAX. (NON-CIRCULAR = 2" MAX. OUTSIDE DIA.) GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND HAVE ROUNDED EDGES. MIN STRUCTURAL STRENGTH TO TO SUPPORT 250# POINT LOADS, BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS

CBC 11B-604

14 ACCESSIBLE DRINKING FOUNTAIN N.T.S.



DRINKING FOUNTAIN SPOUT LOCATION PER CBC FIGURE 11B-602.5

ADA FOUNTAIN KNEE CLEARANCE PER CBC FIGURE 11B-602.5

NOTE: WHEN WING WALLS OR BARRIERS ARE USED, THEY SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6" OF THE FLOOR VERTICALLY PER CBC11B-602.9

15 N.T.S.

16 ACCESSIBLE SHOWER - PLAN VIEW N.T.S.

SHOWER SHALL HAVE 1/2" MAXIMUM HIGH THRESHOLD.

30"x60" MIN. COMPARTMENT SIZE WITH 36"x60" MIN. CLEAR FLOOR SPACE.

SLOPING SURFACE SHALL NOT EXCEED 2% IN ANY DIRECTION. THRESHOLDS ARE NOT PERMITTED.

FLOOR SURFACE SHALL BE CARBORUNDUM OR GRIT-FACED TILE OR OF MATERIAL PROVIDING EQUIVALENT SLIP RESISTANCE.

CONTINUOUS GRAB BARS SHALL BE PROVIDED ALONG THE WALLS OPPOSITE FROM AND ADJACENT TO THE SEAT.

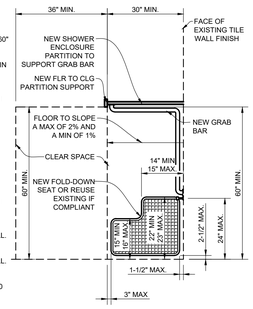
SHOWER SEAT IS FOLDING TYPE, AND IS LOCATED ON THE WALL ADJACENT TO THE CONTROLS.

SEAT EXTENDS THE FULL REQUIRED WIDTH OF THE COMPARTMENT.

WIDE PORTION OF SEAT EXTENDS A MAXIMUM OF 15" FROM THE MOUNTING WALL.

NARROW PORTION OF SEAT EXTENDS A MAXIMUM OF 16" FROM THE MOUNTING WALL.

SEAT SHALL PROVIDE A MINIMUM STRUCTURAL STRENGTH TO SUPPORT A 250 LB. POINT LOAD.



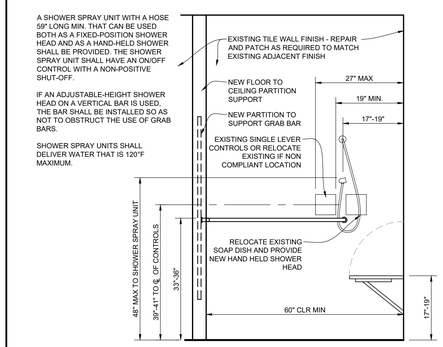
CBC 11B-608

17 ACCESSIBLE SHOWER - ELEVATION N.T.S.

A SHOWER SPRAY UNIT WITH A HOSE 59" LONG MIN. THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF.

IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS.

SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120°F MAXIMUM.



CBC 11B-608

18 ACCESSIBLE LAVATORY N.T.S.

CLEAR FLOOR SPACE MUST ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE

5% OR AT LEAST ONE LAVATORY SHALL BE ACCESSIBLE

LAVATORIES ADJACENT TO SIDE WALL SHALL BE LOCATED 18" TO CENTER OF FIXTURE

KNEE CLEARANCE UNDER FRONT LIP MIN. 27" HIGH, 30" WIDE, AND EXTENDS A MINIMUM OF 8" IN DEPTH FROM THE FRONT OF THE LAVATORY

TOE CLEARANCE UNDER LAVATORY IS A MIN. 9" HIGH, 30" WIDE, AND EXTENDS A MIN. 17" IN DEPTH FROM THE FRONT OF THE LAVATORY

DRAIN AND WATER PIPING IS INSULATED OR CONFIGURED TO PREVENT CONTACT UNDER THE LAVATORY AND THERE SHALL BE NO SHARP OR ABRASIVE ELEMENTS

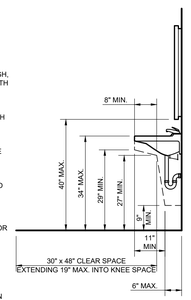
OPERABLE PARTS OF SOAP DISPENSER LOCATED 40" MAX. ABOVE FINISHED FLOOR

THERE ARE NO SHARP OR ABRASIVE ELEMENTS

FAUCETS ARE LEVER TYPE, ELECT. ACTIVATED, OR APPROVED SELF-CLOSING VALVES

FAUCETS ARE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. 5 LBS MAX. FORCE TO ACTIVATE CONTROLS

NOTE: DEPTH OF BOWL SHALL BE NO MORE THAN 6"



CBC 11B-606

19 N.T.S.

20 N.T.S.

DRAWING NAME: J:\2 Active Jobfiles\Verde Design\3 Active\Stockton USD\7 Chavez 2019\1 WCK Work\Plan Check 1\Pool & Lockers\Arch 2020_03-27 WCK\2 Lockers\A24 Chavez Arch REV1.dwg
PLOT DATE: 05-28-20 PLOTTED BY: wckem

USASHADE & Fabric Structures®

FABRIC SHADE STRUCTURE
DSA P.C. 04-117140

SITE SPECIFIC APPLICATION SITE PLAN SHALL INCLUDE:

1. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
2. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
3. PROVIDE CODE ANALYSIS INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTION (V-B). INDICATE OCCUPANT LOAD FACTOR per 2016 CBC, SECTION 1004.
4. INDICATE LOCATIONS OF FIRE EXTINGUISHER WITHIN 75 FEET.
5. SHOW LOCATIONS OF AUDIBLE FIRE ALARM.
6. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20' FOR SNOW LOAD MODEL (ASCE 7-10).
7. ACTUAL SITE ELEVATION (FT.) TO DETERMINE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-10 (FOR SNOW LOAD MODEL).
8. FOR RECESSED BASE PLATE (RBP) OPTION: ARCHITECT/ENGINEER OF RECORD TO SPECIFY THE LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST), AS DEFINED IN AISC 341-10 SECTION A.3.4b, A4.1 AND A4.2 PER NOTE ON EACH INDIVIDUAL MODEL ENGINEERING DRAWING WHICH RELATES TO DEMAND CRITICAL WELD AND "L.A.S.T." TEMPERATURE (EITHER STRUCTURAL STEEL NOTE #14).
9. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF SHADE STRUCTURE.
10. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B & C" RESPECTIVELY IN ASCE 19-10, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
11. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

USASHADE & Fabric Structures®

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428

CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

DSA PC APPLICATION STAMP:

FILE NUMBER: PC-SS
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 117140 INCR :
AC DF FLS DS SS VN
DATE 08/14/2018

CODE UPDATE FOR 04-113245

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

GENERAL NOTES

SITE SPECIFIC APPLICATION TITLE SHEET SHALL INCLUDE:

APPLICABLE CODES

- 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. *
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. *
- 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS

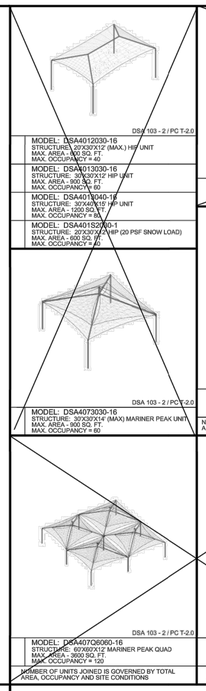
NFPA 13	AUTOMATIC FIRE SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17a	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS & THEIR APPURTENANCES	2016 EDITION
NFPA 25	STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE	2016 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2015 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ICC 300	ICC STANDARDS ON BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRAND STANDS	2012 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS	2005 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES	2003 EDITION
UL521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2016 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.

ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.)

BUILDING CODE DATA



UNIT SELECTION AND DESCRIPTION

DRAWING NUMBER	DRAWING DESCRIPTION	STRUCTURE TYPE	MAX SIZE	MODEL NUMBER
P.C. T-1.0	P.C. TITLE SHEET			
P.C. T-2.0	DSA 103 FORMS			
~~1.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP~~	~~20 X 30~~	~~DSA4012030-16~~
~~1.2-2000~~	~~REACTIONS~~	~~HIP~~	~~20 X 30~~	~~DSA4012030-16~~
~~2.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP~~	~~30 X 30~~	~~DSA4013030-16~~
~~2.2-2000~~	~~REACTIONS~~	~~HIP~~	~~30 X 30~~	~~DSA4013030-16~~
~~3.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP~~	~~30 X 40~~	~~DSA4013040-16~~
~~3.2-2000~~	~~REACTIONS~~	~~HIP~~	~~30 X 40~~	~~DSA4013040-16~~
~~4.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP (20# SNOW LOAD)~~	~~20 X 30~~	~~DSA4015220-16~~
~~4.2-2000~~	~~REACTIONS~~	~~HIP (20# SNOW LOAD)~~	~~20 X 30~~	~~DSA4016220-16~~
~~5.1-1000~~	~~PRODUCT INFORMATION~~	~~SINGLE POST PYRAMID~~	~~14 X 14~~	~~DSA1031414-16~~
~~5.2-2000~~	~~REACTIONS~~	~~SINGLE POST PYRAMID~~	~~14 X 14~~	~~DSA1031414-16~~
~~6.1-1000~~	~~PRODUCT INFORMATION~~	~~MARINER~~	~~30 X 30~~	~~DSA4073030-16~~
~~6.2-2000~~	~~REACTIONS~~	~~MARINER~~	~~30 X 30~~	~~DSA4073030-16~~
~~7.1-1000~~	~~PRODUCT INFORMATION~~	~~JOINED MARINER~~	~~30 X 200~~	~~DSA407J3060-16~~
~~7.2-2000~~	~~REACTIONS~~	~~JOINED MARINER~~	~~30 X 200~~	~~DSA407J3060-16~~
~~8.1-1000~~	~~PRODUCT INFORMATION~~	~~QUAD MARINER~~	~~60 X 60~~	~~DSA407Q6060-16~~
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~~9.1-1000~~	~~PRODUCT INFORMATION~~	~~FULL CANTILEVER~~	~~20 X 30~~	~~DSA2022030-16~~
~~9.2-2000~~	~~REACTIONS~~	~~FULL CANTILEVER~~	~~20 X 30~~	~~DSA2022030-16~~
10.1-1000	PRODUCT INFORMATION	FULL CANTILEVER JOINED	20 X 300	DSA3022060-16
10.2-2000	REACTIONS	FULL CANTILEVER JOINED	20 X 300	DSA3022060-16
~~11.1-1000~~	~~PRODUCT INFORMATION~~	~~TRI TRUSS CANTILEVER~~	~~20 X 30~~	~~DSA2062030-16~~
~~11.2-2000~~	~~REACTIONS~~	~~TRI TRUSS CANTILEVER~~	~~20 X 30~~	~~DSA2062030-16~~
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~~13.1-1000~~	~~PRODUCT INFORMATION~~	~~THREE POINT SAILS~~	~~30 X 200~~	~~DSA30730-16~~
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~~14.1-1000~~	~~PRODUCT INFORMATION~~	~~FOUR-POINT SAILS~~	~~20 X 300~~	~~DSA4182020-16~~
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~~15.2-2000~~	~~REACTIONS~~	~~FOUR POINT SAILS~~	~~30 X 200~~	~~DSA4183030-16~~

SHEET INDEX - P.C. DRAWINGS

HIGGINSON ARCHITECTS INCORPORATED
707 Brookside Avenue
Redlands, CA 92373
(909)375-3030
www.haarchinc.com

ARCHITECT OF RECORD

LICENSED ARCHITECT DAVID HIGGINSON No.C19468 REN. 10-31-19 STATE OF CALIFORNIA
08/10/2018 10:19:20 AM

Mark Lowe, S.E.
Structural Engineer
19471 Misty Ridge Lane
Trabuco Canyon, California 923679
949-400-1265
malowe@me.com

REGISTERED PROFESSIONAL ENGINEER ALBERT MARK LOWE No. 5693 STRUCTURAL STATE OF CALIFORNIA 8/10/2018

ENGINEER OF RECORD

SCALE: AS NOTED

DRAWING SIZE:

SITE PROJECT NAME: Cesar Chavez High School
DISTRICT/OWNER: Stockton Joint Unified School District
LOCATON/ADDRESS: 2929 Windflower Lane Stockton, CA 95212

DESCRIPTION	DATE	DRW	CHK	ENG
REV.				

Eng. By :	DWH	08/07/18
Design By :	DWH	08/07/18
Approved By :	DWH	08/07/18

DRAWING DESCRIPTION:

P.C. TITLE SHEET

DWG.

SHEET P.C. T-1.0

REV.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

CONSULTANT

SHEET TITLE
FULL CANTILEVER HIP JOINED - P.C. TITLE SHEET

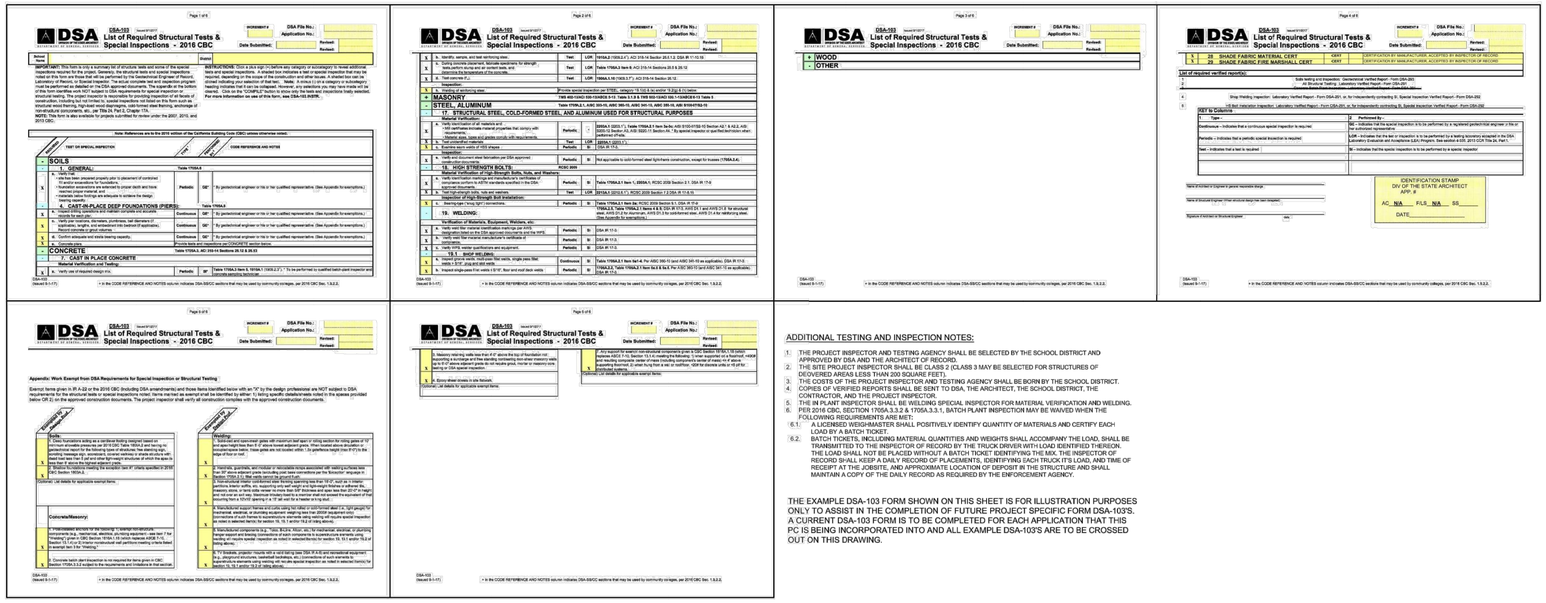
PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.1



DSA 103 (Issued 8-1-17) — Page 1 of 6 — DSA-103 (Issued 8/1/2017) — List of Required Structural Tests & Special Inspections - 2016 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections listed on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program may be more extensive than listed on this form. Refer to the applicable CBC and RCD sections. Items that the form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all tests of materials and for all work listed on the Statement of Special Inspections. Refer to the list of structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.
NOTE: This form is also available for projects submitted for review under the 2007, 2010, and 2013 CBC.

INSTRUCTIONS: Cost a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. Additional tests and special inspections may be added to the list as required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. Note: A minus (-) in a category or subcategory indicates that it can be collapsed. However, any selections you may have made will be retained. Click on the "COMPLETE" button to show only the tests and inspections that were selected. For more information on use of this form, see DSA-103.INSTR.

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

		TEST OR SPECIAL INSPECTION	FREQUENCY		CODE REFERENCE AND NOTES
-		**SOILS**			
-		**1. GENERAL:**			Table 1705A.6
X	a.	Verify that preparation of the soil and placement of controlled fills conform to the approved recommendations of the soils engineering investigation report.	Periodic	QE*	By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-		**4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**			Table 1705A.9
X	a.	Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	QE*	By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
X	b.	Verify the soil materials, dimensions, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	Continuous	QE*	By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
X	c.	Confirm adequate end strata bearing capacity.	Continuous	QE*	By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
X	e.	Concrete pours	Provide tests and inspections per CONCRETE section below.		
-		**CONCRETE**	Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13		
-		**7. CAST IN PLACE CONCRETE**			
-		**Material Verification and Testing:**			
X	a.	Verify use of required design mix.	Periodic	SI*	Table 1705A.3 Item 5, 1904A.1 (1909.2.2*). * To be performed by qualified batch plant inspector and concrete sampling technician.

DSA 103 (Issued 8-1-17) — + In the CODE REFERENCE AND NOTES colu-mn indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

DSA 103 (Issued 8/1/2017) — Page 2 of 6 — DSA-103 (Issued 8/1/2017) — List of Required Structural Tests & Special Inspections - 2016 CBC

X	b.	Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2 (1909.2.4*), ACI 318-14 Section 26.6.1.2, DSA IR 17.13.10
X	c.	During concrete placement, fabricate specimens for strength tests,perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 8, ACI 318-14 Sections 26.5 & 26.12
X	d.	Test concrete (f'c)	Test	LOR	1905A.1.4k (1909.2.7*), ACI 318-14 Section 26.12.
-		Inspection:			
X	a.	Welding of reinforcing steel.	Provide special inspector per STEEL, category 19.10.6.3c,section 19.2(g) & (h) below.		
+		**MASONRY**	**TMS 402-13/ACI 530-13/ASCE 5-13. Table 1.1.A & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 4**		
-		**STEEL, ALUMINUM**	**Table 1705A.2.1, ANSI 360-16, AISC 360-16, ANSI 341-14, AISC 358-16, AISI S100-07/S1-15**		
-		**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
		Material Verification:			
X	a.	Verify identification of all materials and welding procedures includes material properties that comply with requirements. (Tapered slips, bases and plates comply with requirements.	Periodic	-	SSRAA 2205.1*, Table 1705A.2.1 Item 5a,AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S905-13 Section B2, AISI S920-13 Section A4. (Sp special inspector or qualified technician when performed offsite.)
X	b.	Test un-identified materials.	Test	LOR	SSRAA 2205.1*
X	c.	Examine each welds of HSS shapes	Periodic	SI	DSA IR 17.13.
-		**Inspection:**			
X	a.	Verify and document steel fabrication per DSA approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
-		**18. HIGH STRENGTH BOLTS:**	RCSC 2009		
		Material Verification of High Strength Bolts, Nuts, and Washers:			
X	a.	Verify identification markings and manufacturer's certificates of compliance for the ASTM standards specified in the DSA approved construction documents.	Periodic	SI	Table 1705A.2.1 Item 1, 2205A.1, RCSC 2009 Section 2.1, DSA IR 17.6
X	b.	Test high-strength bolts, nuts and washers.	Test	LOR	2810A.2 (2010.2.1*), RCSC 2009 Section 2.7 (DSA IR 17.6.1)
		Inspection:			
X	a.	Pre-tension / snug-tight bolts and fasteners.	Periodic	SI	Table 1705A.2.1 Item 6a, RCSC 2009 Section 9.1, DSA IR 17.6
		19. WELDING:			**1705A.2.1, Table 1705A.2.1 Items 4 & 6, DSA IR 17.2, 2205.1(1.) and ANSI 341.2 for structural steel. 2205.2 (2.) for structural tubular HSS. 2205.3 (3.) for cold-formed steel. ANSI 21.4 for reinforcing steel.** (See Appendix for exemptions.)
		Verification of Materials, Equipment, Welders, etc:			
X	a.	Verify weld filler material identification markings per AWS specifications and certificates of compliance (for each lot).	Periodic	SI	DSA IR 17.5.
X	b.	Verify welder identification and welding procedure.	Periodic	SI	DSA IR 17.5.
X	c.	Verify that the material manufacturer's weldbale is controlled.	Periodic	SI	DSA IR 17.5.
X	d.	Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17.5.
-		**SS.1 SHOP WELDING:**			
X	a.	Inspect groove welds. Visually inspect fillet welds; single-pass fillet welds ≤ 5/16", plug and slot welds.	Continuous	SI	**Table 1705A.2.1 Item 5a-f, 6, Per AISC 360-10 and AISC 341-10 as applicable;** DSA IR 17.6.
X	b.	Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	**Table 1705A.2.1 Item 5a-f & 6a-f,** Per AISC 360-10 and AISC 341-10 as applicable; DSA IR 17.6.
-		**WOOD**			
-		**OTHER**			

DSA 103 (Issued 8-1-17) — + In the CODE REFERENCE AND NOTES colu-mn indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

DSA 103 (Issued 8/1/2017) — Page 3 of 6 — DSA-103 (Issued 8/1/2017) — List of Required Structural Tests & Special Inspections - 2016 CBC

- **WOOD**
- **OTHER**

DSA 103 (Issued 8-1-17) — + In the CODE REFERENCE AND NOTES colu-mn indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

DSA 103 (Issued 8/1/2017) — Page 4 of 6 — DSA-103 (Issued 8/1/2017) — List of Required Structural Tests & Special Inspections - 2016 CBC

X	25	SHADE FABRIC MATERIAL CERT	<DAY>	CERTIFICATION BY MANUFACTURER, ACCEPTED BY INSPECTOR OF RECORD
X	25	SHADE FABRIC FIRE MARSHALL CERT	<DAY>	CERTIFICATION BY MANUFACTURER, ACCEPTED BY INSPECTOR OF RECORD

List of required verified report(s):

1. Soils testing and inspection - Geotechnical Verified Report - Form DSA-293
2. All Structural Testing - Laboratory Verified Report - Form DSA-291
3. Shop Welding Inspection - Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
4. HS Bolt Installation Inspection - Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

KEY to Columns

Type –	SI – Performed By –
Continuous – Indicates that a continuous special inspection is required.	GE – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required.	LOR – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA-Laboratory Evaluation and Acceptance (LEA) Program. See section 4.305, 2019 CCR Title 24, Part 1.
Test – Indicates that a test is required.	SI – Indicates that the special inspection is to be performed by a special inspector.

Name of Architect or Engineer in general responsible charge: _____

Name of Structural Engineer (When structural design has been required): _____

Signature of Architect or Structural Engineer: _____ date: _____

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. #
AC. N/A FLS N/A SS
DATE

DSA 103 (Issued 8-1-17) — + In the CODE REFERENCE AND NOTES colu-mn indicates DSA-SS/CC sections that may be used by community colleges, per 2016 CBC Sec. 1.9.2.2.

DSA 103 (Issued 8/1/2017) — Page 5 of 6 — DSA-103 (Issued 8/1/2017) — List of Required Structural Tests & Special Inspections - 2016 CBC

Appendix: Work Exempt from DSA Requirements for Special Inspection or Structural Testing

Exempt items given in IR A-22 in the 2016 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for the structural tests or special inspections listed. Items marked as exempt shall be identified by either: 1) listing specific details/sheets noted to the spaces provided below OR 2) on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

Exempt per IR A-22		Masonry:
		Soils:
X	a.	Grading, excavation and fill work conducted within enclosed buildings or structures and which does not affect lateral support of adjoining property, streets or highways.
X	b.	Excavation of any material below a structure or mass adjacent thereto, unless such excavation is more than 5 feet (1524 mm) below the footing or the excavation is likely to affect existing foundations adversely.
X	c.	Retaining walls that are not over 4 feet (1219 mm) in height unless they support a surcharge or impounding Class I, II or III-A liquids.
X	d.	Test pits and borings made by engineers or architects for the purpose of planning a proposed structure.
X	e.	Agricultural terraces or contour terraces not intended to support structures.
		Concrete/Masonry:
X	a.	Plain concrete footings or foundations for one-story buildings of Group R-3 or U occupancy, provided the building is not more than 2,500 square feet (232 m2) in area.
X	b.	Concrete basement floor slabs not supporting bearing or shear walls, columns or seismic forces.
X	c.	Nonstructural concrete slabs supported directly on the ground, including pavements and sidewalks.
X	d.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	e.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	f.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	g.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	h.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	i.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	j.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	k.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	l.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	m.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	n.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	o.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	p.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	q.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	r.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	s.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	t.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	u.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	v.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	w.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	x.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	y.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.
X	z.	Concrete backfill behind an unreinforced gravity retaining wall 4 feet (1219 mm) or less in height measured from the footing base to the top of the wall, unless it supports a surcharge or resists lateral loads imposed by flowing water or other materials.

Exempt per IR A-22		Welding:
		Welding:
X	a.	Welding of steel and concrete pipe piles and steel grade pipe piles with maximum wall thickness of 0.375 inch (9.5 mm) based on minimum allowable pressure per ASTM A252.
X	b.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category A, B or C, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	c.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	d.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	e.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	f.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	g.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	h.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	i.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	j.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	k.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
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X	m.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
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X	p.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
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X	r.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	s.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	t.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	u.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	v.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	w.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	x.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	y.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.
X	z.	Welding of steel pipe and tubing in structures assigned to Seismic Design Category D, E or F, provided the welding is performed in accordance with AWS D1.1 Section 9 and the welding is prequalified.

ADDITIONAL TESTING AND INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. THE SITE PROJECT INSPECTOR SHALL BE CLASS 2 (CLASS 3 MAY BE SELECTED FOR STRUCTURES OF DEOVERED AREAS LESS THAN 200 SQUARE FEET).
3. THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
4. COPIES OF VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
5. THE IN PLANT INSPECTOR SHALL BE WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
6. PER 2016 CBC, SECTION 1705A.3.3.2 & 1705A.3.3.1, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
   - 6.1. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   - 6.2. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK IT'S LOAD, AND TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCEMENT AGENCY.

THE EXAMPLE DSA-103 FORM SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT SPECIFIC FORM DSA-103'S. A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE DSA-103'S ARE TO BE CROSSED OUT ON THIS DRAWING.

SAMPLE DSA 103 STATEMENT OF STRUCTURAL TESTS AND INSPECTION FORMS FOR CANTILEVER AND SINGLE POST UNITS | --- | 1

SAMPLE DSA 103 STATEMENT OF STRUCTURAL TESTS AND INSPECTION FORMS FOR ALL UNITS EXCEPT CANITLEVER AND SINGLE POST | --- | 2

USA SHADE & Fabric Structures

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

DSA PC APPLICATION STAMP:

FILE NUMBER: PC SS
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 117140 INCR :
AC DF FLS DS SS VN
DATE 08/14/2018

CODE UPDATE FOR 04-113245

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A seperate project application for construction is required.

SCALE: AS NOTED

DRAWING SIZE:

LICENSED ARCHITECT — DAVID HIGGINSON — NO.C19468 — REN: 10-31-19 — STATE OF CALIFORNIA
08/10/2018 10:19:44 AM

HIGGINSON ARCHITECTS INCORPORATED
707 Brookside Avenue
Redlands, CA 92373
(909)375-3030
www.haarchinc.com

ARCHITECT

REGISTERED PROFESSIONAL ENGINEER — ALBERT Mark Lowe — No. 39931 — STRUCTURAL — STATE OF CALIFORNIA
8/10/2018

Mark Lowe, S.E.
Structural Engineer

19471 Misty Ridge Lane
Trabuco Canyon, California 923679
949-400-1265
malowe@me.com

ENGINEER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.5655
fax: 408.985.7360
www.VerdeDesignInc.com

STAMP

CONSULTANT

SITE PROJECT NAME: Cesar Chavez High School
DISTRICT/OWNER: Stockton Joint Unified School District
LOCATON/ADDRESS: 2929 Windflower Lane Stockton, CA 95212

DESCRIPTION	DATE	DRW	CHK	ENG
REV				

Eng. By :	DWH	08/07/18
Design By :	DWH	08/07/18
Approved By :	DWH	08/07/18

DRAWING DESCRIPTION: DSA 103 FORMS

DWG.

SHEET P.C. T-2.0

REV.

SHEET TITLE: FULL CANTILEVER HIP JOINED - DSA 103 FORMS

PROJECT NAME: CHAVEZ HIGH SCHOOL STOCKTON USD SWIMMING POOL

PROJECT ADDRESS: 2929 WINDFLOWER LN STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: — CHECKED BY: CS
DATE ISSUED: 03/13/2020 — SCALE:
PROJ. NO.: 1910900-1211
SHEET NO.: US1.2

DRAWING NAME: Y:\Projects-FO\2019\1910900 – Chavez Restart\CAD_USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	CBC 2016 (BASED ON IBC 2015)
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH (3-Sec. Gust); EXPOSURE C; TOPOGRAPHIC FACTOR , Kzt = 1.0

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2016 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2016, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2016, ASCE 7-10, AISC 360-10, AISC 341-10, ACI 318-14, ASCE 55-10 & ASCE 19-10

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2016 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2016 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-10: GRADE "B", IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:

ROUND TUBE	42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE B, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:

SQUARE AND RECTANGULAR	46,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS
ROUND PIPE	42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. EITHER SMAW OR GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, FYS = 60 KSI, FS = 95KSI ,ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2. REFERING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS.

12.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 GRADE BD. ALL NUTS SHALL COMPLY WITH ASTM A-563 GRADE C. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

13.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS: - PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

14.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

15.- COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION. ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329), OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE TESTED PER CBC 2016 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT, WATER/CEMENT RATIO OF 0.45, PER ACI 318-14 CHAPTER 5. REINFORCING STEEL TO BE Fy= 60000 PSI , MIN. GR. 60

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED). ANCHOR BOLT'S EMBEDMENT NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4" 30 IN (MINIMUM EMBEDMENT)

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD. OR OTHER COMPANY WHO CAN MANUFACTURE FABRIC, WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS.

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHALL TO DSA AT SITE SPECIFIC INSTALLATION.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FABRICS SAMPLES OF THE SAME MATERIAL WHICH ARE MAINTAINED AT THE PROJECTS SITE SHALL BE TESTED TO BE IN COMPLIANCE WITH ASTM D5034 AND D2261. THE ANNUAL TESTING ON THE APPROVED PLANS SHALL BE COMPARED TO THE FABRIC SPECIFICATIONS INDICATED IN NOTE 1 OF "FABRIC SPECIFICATION" ON THE APPROVED PLANS. THE FABRIC SHALL BE REPLACED WHEN THE TEST RESULTS RETURN LESS THAN 50% OF THE ULTIMATE VALUES IN NOTE 1 OF "FABRIC SPECIFICATION".

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. SHADE STRUCTURE SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023A, ASTM 1023M-02, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 250 LBS MINIMUM. THE MAXIMUM CALCULATED CABLE TENSION IS 2726 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

2016 CBC PC DESIGN NOTES

FLOOR LIVE LOAD	N/A	
ROOF LIVE LOAD	RLL	5 PSF

ALLOWABLE SOIL PRESSURE:

DL + LL (CONC FTG)	1500 PSF
DL + LL + SEISMIC (CONC FTG)	1500 PSF
LATERAL BEARING DESIGN VALUE	100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT) PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD		5 PSF
FLOOD HAZARD AREA		NO

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-10, SECTION 27.4.3

-ULTIMATE DESIGN WIND SPEED (3 SEC GUST)	V	115 MPH
-WIND EXPOSURE FACTOR	C	
-TOPOGRAPHIC FACTOR	Kzt	1
-RISK CATEGORY	II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.88
-VELOCITY PRESSURE	qz	25.32 PSF

SEISMIC DESIGN:

-SITE CLASS	D	
	SS	3.00g
	S1	1.389g
-SPECTRAL RESPONSE COEFFICIENTS	SDS	2.00
	SD1	1.39
-LATERAL FORCE RESISTING SYSTEM	G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.	
-SEISMIC IMPORTANCE FACTOR	I	1.0
-DESIGN BASE SHEAR	V	26584 LB
-SEISMIC RESPONSE COEFFICIENTS	Cs	1.6
-RESPONSE MODIFICATION FACTOR	R	1.25
-ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
-RISK CATEGORY	II	
-SEISMIC DESIGN CATEGORY		E
-SITE COEFFICIENT CATEGORY	Fa	1
	Fv	1.5

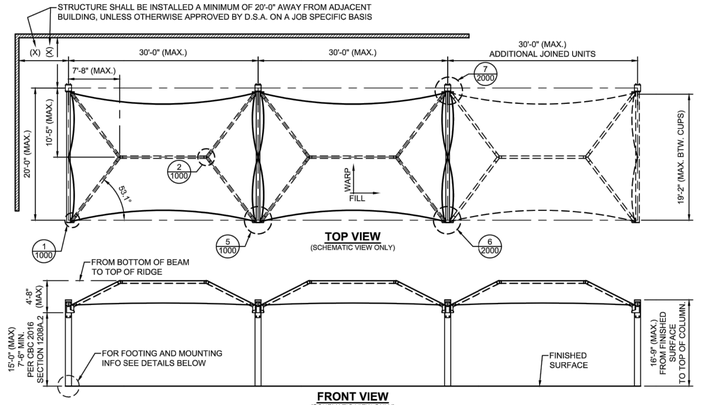
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

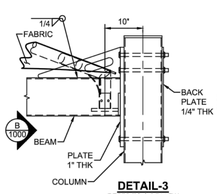
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 17'-6" THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.
MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.

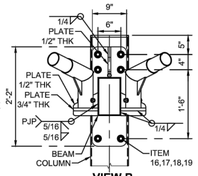
STRUCTURE SHALL BE INSTALLED A MINIMUM OF 20'-0" AWAY FROM ADJACENT BUILDING, UNLESS OTHERWISE APPROVED BY D.S.A. ON A JOB SPECIFIC BASIS



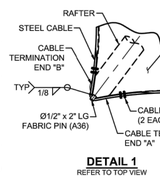
LIST OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
1	TBD	COLUMN	HSS 10 x 10 x 0.625
2A	TBD	BEAM LEFT	HSS 10 x 6 x 0.375
2B	TBD	BEAM RIGHT	HSS 10 x 6 x 0.375
2C	TBD	BEAM CENTER	HSS 10 x 6 x 0.375
3	TBD	CUP CONNECTOR (6" LG)	HSS 4.0 x 0.25
4	TBD	RAFTER (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
5	TBD	EXTENSION (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
6	TBD	CROSSPIECE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
7	TBD	RIDGE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (4.5 x 0.188)
8	TBD	FABRIC TOP	FR COLOURSHADE Z25
9	TBD	Ø3/8" CABLE	GALVANIZED STEEL
10	TBD	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
11	TBD	Ø5/8"-11NC x 6" HEX BOLT	18-8 SS
12	TBD	Ø5/8"-11NC HEX NUT	18-8 SS
13	TBD	Ø5/8" FLAT WASHER	18-8 SS
14	TBD	Ø5/8" FLAT WASHER	DELRIN (ACETAL)
15	TBD	Ø5/8" SPLIT LOCK WASHER	18-8 SS
16	TBD	Ø1"-8NC x 13" HEX BOLT	ASTM A325 GALVANIZED
17	TBD	Ø1"-8NC HEX NUT	ASTM A563 GALVANIZED
18	TBD	Ø1" SPLIT LOCK WASHER	ASTM F436 GALVANIZED
19	TBD	Ø1" FLAT WASHER	ASTM F436 GALVANIZED



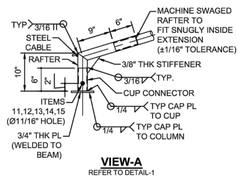
DETAIL-3
REFER TO SIDE VIEW



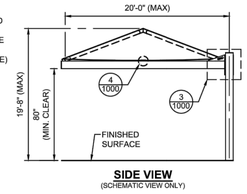
VIEW B
REFER TO TOP DETAIL-3



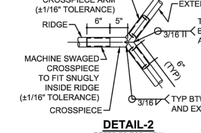
DETAIL 1
REFER TO TOP VIEW



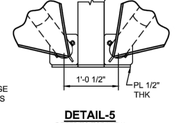
VIEW-A
REFER TO DETAIL-1



SIDE VIEW
(SCHEMATIC VIEW ONLY)



DETAIL-2
REFER TO TOP VIEW

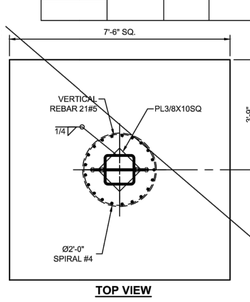


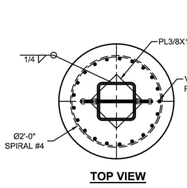
DETAIL-5
REFER TO TOP VIEW

CODE ANALYSIS					
BUILDING	OCCUPANCY	CONST. TYPE	AREA (SQ. FT.)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
SHADE STRUCTURE					

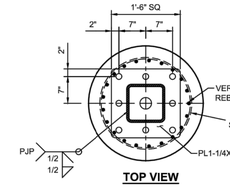
MAXIMUM OCCUPANT LOAD (PER CBC 2016 TABLE 1604A.5)

-K-12:	250 PERSONS
-PUBLIC ASSEMBLY:	300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE:	500 PERSONS

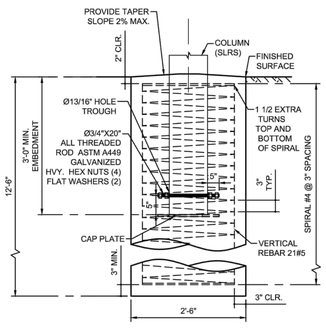




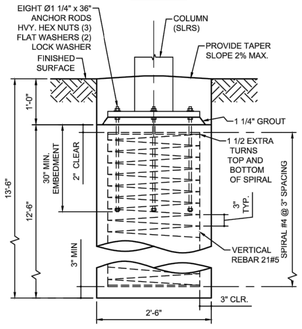
TOP VIEW



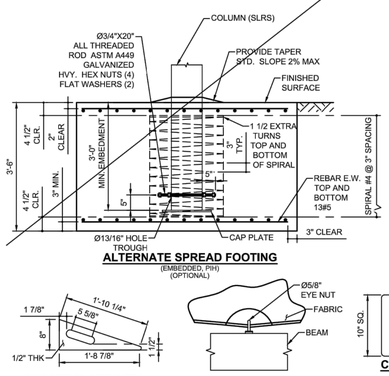
TOP VIEW



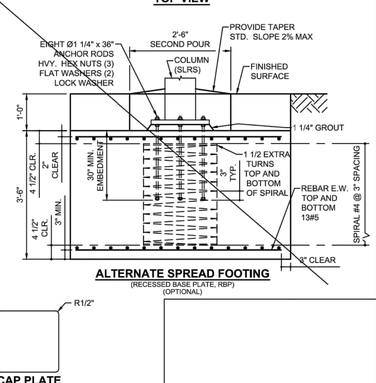
DRILLED PIER-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)



DRILLED PIER-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)



ALTERNATE SPREAD FOOTING
(EMBEDDED, PIH)
(OPTIONAL)



ALTERNATE SPREAD FOOTING
(RECESSED BASE PLATE, RBP)
(OPTIONAL)

GUSSET PLATE DETAIL
REFER TO DETAIL-3

DETAIL-4
REFER TO SIDE VIEW

CAP PLATE
(3/8" THK)
(TYP. FOR ALL COLUMNS)
(TOP OF RBP COLUMNS)
(TOP & BOT. OF PIH COLUMNS)

USA SHADE & Fabric Structures®

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Stockton Joint Unified School District

PROJECT NAME:
Cesar Chavez High School

LOCATION:
2929 Windflower Lane
Stockton, CA 95212

MODEL NUMBER:
DSA3022060-16

STRUCTURE TYPE:
FULL CANTILEVER HIP JOINED DSA

SIZE: MAXIMUM
20' x 200' x 15'e MAX.

SCALE : NONE

DRAWING SIZE: D

Eng. By :	JO	03/17/18
Design By :	MP	03/17/18
Approved By :	JO	03/17/18

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG. DSA3022060-16

SHEET 10.1-1000

REV. NC

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesignInc.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

STAMP

CONSULTANT

DAVID HIGGINS LICENSED ARCHITECT NO.C19148 REN. 10-31-19 STATE OF CALIFORNIA
08/10/2018 10:08:42 AM

REGISTERED PROFESSIONAL ENGINEER ALBERT A. PETERSON No. 36931 STRUCTURAL STATE OF CALIFORNIA 8/10/2018
FILE NUMBER: PCXSS
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 02 - 117140 INCR :
AC DF RCS DS SS VN
DATE 08/14/2018

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

NO.	REVISIONS	DATE

DESCRIPTION | DATE | DRW | CHK | ENG

SHEET TITLE
FULL CANTILEVER HIP JOINED - PRODUCT INFORMATION

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.3

ENVELOPE JOINT REACTIONS

Shear resultant = $\sqrt{Px^2 + Py^2 + Pz^2}$ Moment resultant = $\sqrt{Mx^2 + My^2 + Mz^2}$

ASD REACTIONS

Node No.		Support Forces [kip] P_x	P_y	P_z	Support Moments [kipft] M_x	M_y	M_z		Support Forces [kip] SHEAR RESULTANT	Support Moments [kipft] MOMENT RESULTANT	Support Forces [kip] UPLIFT	Support Forces [kip] AXIAL
						MAXIMUM REACTIONS			3.924	72.689	1.314	-6.957
86	Max	3.767	3.412	0.118	17.417	45.805	5.635					
	Min	-0.030	-0.786	-4.471	-16.757	0.000	-17.556					
	Max P_x	**3.767**	0.329	-0.630	-13.525	45.805	-12.489	CO 24	3.804	47.760		-0.630
	Min P_y	**-0.030**	0.088	-3.459	-22.223	0.711	0.747	CO 36	0.093	22.234		-2.659
	Max P_y	0.318	**3.412**	-0.729	-15.884	8.062	-1.952	CO 25	3.451	46.587		-0.729
	Min P_y	2.138	**-0.786**	0.094	17.417	31.899	-0.524	CO 42	2.278	36.344	0.094	
	Max P_z	1.601	1.094	**0.118**	-6.063	25.871	-14.711	CO 41	2.107	26.572	0.118	
	Min P_z	0.771	0.702	**-4.471**	-42.100	14.626	4.692	CO 15	1.043	44.568		-4.471
	Max M_x	2.138	-0.786	0.094	**17.417**	31.899	-0.524	CO 42	2.278	36.344	0.094	
	Min M_x	0.160	2.592	-3.737	**-16.757**	3.700	0.674	CO 21	2.597	56.877		-3.737
	Max M_z	3.767	0.329	-0.630	-13.525	**45.805**	-12.489	CO 24	3.804	47.760		-0.630
	Min M_z	0.000	0.000	0.000	0.000	**0.000**	0.000		0.000	0.000		
	Max M_y	1.102	0.899	-3.032	-32.581	19.447	**5.635**	CO 38	1.422	37.943		-3.032
	Min M_y	1.597	1.004	0.045	-4.832	28.687	**-17.556**	CO 6	2.235	29.091	0.045	
88	Max	3.766	3.607	1.280	-63.963	-45.561	0.608					
	Min	-0.058	-2.613	-6.943	-69.457	-0.845	-8.830					
	Max P_x	**3.766**	-0.170	-3.326	-15.052	-45.561	-8.830	CO 22	3.770	48.363		-3.326
	Min P_x	**-0.058**	-1.544	1.023	36.541	-0.628	0.608	CO 7	1.545	36.546	1.023	
	Max P_y	0.000	**3.607**	-3.321	-63.669	0.000	0.000	CO 23	3.607	63.669		-3.321
	Min P_y	0.000	**-2.613**	-4.629	-5.774	0.002	-0.002	CO 39	2.613	5.774		-4.629
	Max P_z	0.000	0.766	**1.280**	15.844	0.003	0.001	CO 41	0.766	15.844	1.280	
	Min P_z	0.000	0.924	**-6.943**	-66.399	0.002	-0.001	CO 15	0.924	66.399		-6.943
	Max M_x	-0.055	-1.851	1.125	**-63.963**	-0.628	0.496	CO 42	1.852	43.967	1.125	
	Min M_x	0.000	3.604	-3.061	**-69.457**	0.001	0.000	CO 21	2.604	69.457		-5.061
	Max M_z	3.766	-0.170	-3.326	-15.052	**45.961**	-8.830	CO 22	3.770	48.363		-3.326
	Min M_z	-0.049	-0.768	-2.633	-6.039	**-0.845**	-0.465	CO 19	0.770	8.083		-2.633
	Max M_y	-0.058	-1.544	1.023	36.541	-0.628	**0.608**	CO 7	1.545	36.546	1.023	
	Min M_y	3.766	-0.170	-3.326	-15.052	45.961	**-8.830**	CO 22	3.770	48.363		-3.326
180	Max	3.058	3.412	0.119	16.442	34.879	17.556					
	Min	-2.367	-0.574	-4.470	-56.757	-35.703	-7.321					
	Max P_x	**3.058**	-0.355	-3.012	-8.053	34.879	-7.321	CO 22	3.079	35.797		-3.012
	Min P_x	**-2.367**	-0.574	-0.080	10.507	-35.703	9.798	CO 7	2.436	37.217		-0.080
	Max P_y	-0.518	**3.412**	-4.729	-63.884	-8.062	1.952	CO 39	3.451	46.587		-0.729
	Min P_y	-2.083	**-0.829**	-0.025	16.442	-31.254	8.995	CO 42	2.242	35.315		-0.025
	Max P_z	-1.801	1.093	**0.119**	-6.034	-25.866	14.713	CO 41	2.107	26.560	0.119	
	Min P_z	-0.771	0.702	**-4.470**	-42.098	-14.623	-4.693	CO 15	1.043	44.565		-4.470
	Max M_x	-2.083	-0.829	-0.025	**16.442**	-31.254	8.995	CO 42	2.242	35.315		-0.025
	Min M_x	-0.160	2.592	-3.737	**-56.757**	-3.700	-0.674	CO 21	2.597	56.877		-3.737
	Max M_z	3.058	-0.355	-3.012	-8.053	**34.879**	-7.321	CO 22	3.079	35.797		-3.012
	Min M_z	-2.367	-0.574	-0.080	10.507	**-35.703**	9.798	CO 7	2.436	37.217		-0.080
	Max M_y	-1.597	1.003	0.045	-4.816	-28.684	**17.556**	CO 6	2.235	29.085	0.045	
	Min M_y	3.058	-0.355	-3.012	-8.053	34.879	**-7.321**	CO 22	3.079	35.797		-3.012
270	Max	3.783	3.413	0.129	15.828	46.108	6.255					
	Min	-0.063	-0.706	-4.469	-56.457	0.000	-18.556					
	Max P_x	**3.783**	0.534	-0.629	-13.628	46.108	-12.514	CO 24	3.821	48.079		-0.629
	Min P_x	**-0.063**	0.067	-3.638	-21.801	0.355	1.094	CO 36	0.092	21.802		-2.618
	Max P_y	0.525	**3.413**	-0.728	-45.908	8.205	-1.904	CO 25	3.453	46.635		-0.728
	Min P_y	2.285	**-0.706**	0.104	15.828	34.460	-10.271	CO 42	2.392	37.921	0.104	
	Max P_z	2.000	1.214	**0.129**	-8.424	29.334	-15.643	CO 41	2.340	30.520	0.129	
	Min P_z	0.695	0.649	**-4.469**	-41.017	13.341	5.370	CO 15	0.951	43.132		-4.469
	Max M_x	2.285	-0.706	0.104	**15.828**	34.460	-10.271	CO 42	2.392	37.921	0.104	
	Min M_x	0.338	3.397	-2.919	**-56.457**	5.635	-0.650	CO 23	3.414	56.738		-2.919
	Max M_z	3.783	0.534	-0.629	-13.628	**46.108**	-12.514	CO 24	3.821	48.079		-0.629
	Min M_z	0.000	0.000	0.000	0.000	**0.000**	0.000		0.000	0.000		
	Max M_y	1.034	0.867	-3.020	-31.498	18.285	**6.255**	CO 38	1.337	36.419		-3.020
	Min M_y	2.219	1.133	0.056	-7.388	32.571	**-18.556**	CO 6	2.492	33.398	0.056	
272	Max	3.923	3.707	1.314	43.600	48.698	1.754					
	Min	-0.650	-2.266	-6.957	-72.672	0.000	-8.705					
	Max P_x	**3.923**	-0.096	-0.836	-2.756	48.698	-8.705	CO 24	3.924	48.776		-0.836
	Min P_x	**0.000**	0.000	0.000	0.000	0.000	0.000		0.000	0.000		
	Max P_y	0.093	**3.707**	-3.326	-65.887	1.818	0.494	CO 23	3.708	65.912		-3.326
	Min P_y	0.410	**-2.266**	-4.696	-14.342	7.495	-1.122	CO 39	2.303	16.181		-4.696
	Max P_z	0.547	0.970	**1.314**	12.606	9.192	-2.847	CO 41	1.114	15.601	1.314	
	Min P_z	0.035	1.042	**-6.957**	-69.418	1.070	1.754	CO 15	1.043	69.426		-6.957
	Max M_x	0.355	-1.811	1.149	**43.600**	0.243	-1.694	CO 42	1.845	44.045	1.149	
	Min M_x	0.069	2.741	-5.072	**-72.672**	1.534	1.021	CO 21	2.742	72.688		-5.072
	Max M_z	3.923	-0.096	-0.836	-2.756	**48.698**	-8.705	CO 24	3.924	48.776		-0.836
	Min M_z	0.000	0.000	0.000	0.000	**0.000**	0.000		0.000	0.000		
	Max M_y	0.035	1.042	-6.957	-69.418	1.070	**1.754**	CO 15	1.043	69.426		-6.957
	Min M_y	3.923	-0.096	-0.836	-2.756	48.698	**-8.705**	CO 24	3.924	48.776		-0.836
363	Max	3.677	3.707	1.314	62.492	44.290	3.051					
	Min	-0.652	-2.266	-6.957	-72.673	-11.090	-8.878					
	Max P_x	**3.677**	-0.068	-3.327	-16.765	44.290	-8.878	CO 22	3.678	47.357		-3.327
	Min P_x	**-0.652**	0.576	1.167	19.550	-11.090	3.091	CO 6	0.870	22.476	1.167	
	Max P_y	-0.093	**3.707**	-3.326	-65.887	-1.818	-0.494	CO 23	3.708	65.912		-3.326
	Min P_y	-0.410	**-2.266**	-4.696	-14.342	-7.491	1.119	CO 39	2.303	16.180		-4.696

ENVELOPE JOINT REACTIONS

Shear resultant = $\sqrt{Px^2 + Py^2 + Pz^2}$ Moment resultant = $\sqrt{Mx^2 + My^2 + Mz^2}$

ASD REACTIONS

Node No.		Support Forces [kip] P_x	P_y	P_z	Support Moments [kipft] M_x	M_y	M_z		Support Forces [kip] SHEAR RESULTANT	Support Moments [kipft] MOMENT RESULTANT	Support Forces [kip] UPLIFT	Support Forces [kip] AXIAL
						MAXIMUM REACTIONS			3.924	72.689	1.314	-6.957
	Max P_x	-0.546	0.970	**1.314**	12.609	-9.185	2.851	CO 41	1.113	15.600	1.314	
	Min P_x	-0.035	1.042	**-6.957**	-69.417	-1.066	-1.755	CO 15	1.043	69.425		-6.957
	Max M_x	-0.423	-1.842	1.033	**42.492**	-7.089	2.301	CO 42	1.890	43.079	1.033	
	Min M_x	-0.069	2.741	-5.072	**-72.673**	-1.532	-1.021	CO 21	2.742	72.689		-5.072
	Max M_z	3.677	-0.068	-3.327	-16.765	**44.290**	-8.878	CO 22	3.678	47.357		-3.327
	Min M_z	-0.652	0.576	1.167	19.550	**-11.090**	3.091	CO 6	0.870	22.476	1.167	
	Max M_y	-0.652	0.576	1.167	19.550	-11.090	**3.091**	CO 6	0.870	22.476	1.167	
	Min M_y	3.677	-0.068	-3.327	-16.765	44.290	**-8.878**	CO 22	3.678	47.357		-3.327
455	Max	3.052	3.413	0.129	14.860	34.749	18.557					
	Min	-2.503	-0.252	-4.468	-56.457	-38.101	-7.362					
	Max P_x	**3.052**	-0.351	-3.011	-8.134	34.749	-7.362	CO 22	3.072	35.688		-3.011
	Min P_x	**-2.503**	-0.498	-0.074	8.940	-38.101	10.359	CO 7	2.552	39.136		-0.074
	Max P_y	-0.515	**3.413**	-0.728	-45.908	-8.205	1.904	CO 25	3.453	46.635		-0.728
	Min P_y	-2.217	**-0.752**	-0.017	14.860	-33.599	9.580	CO 42	2.341	36.738		-0.057
	Max P_z	-2.000	1.213	**0.129**	-8.397	-29.329	15.645	CO 41	2.339	30.507	0.129	
	Min P_z	-0.695	0.649	**-4.468**	-41.015	-13.338	5.371	CO 15	0.951	43.129		-4.468
	Max M_x	-2.217	-0.752	-0.017	**14.860**	-33.599	9.580	CO 42	2.341	36.738		-0.057
	Min M_x	-0.338	3.397	-2.919	**-56.457**	-5.635	0.650	CO 23	3.414	56.738		-2.919
	Max M_z	3.052	-0.351	-3.011	-8.134	**34.749**	-7.362	CO 22	3.072	35.688		-3.011
	Min M_z	-2.503	-0.498	-0.074	8.940	**-38.101**	10.359	CO 7	2.552	39.136		-0.074
	Max M_y	-2.218	1.113	0.057	-7.372	-32.569	**18.557**	CO 6	2.491	33.393	0.057	
	Min M_y	3.052	-0.351	-3.011	-8.134	34.749	**-7.362**	CO 22	3.072	35.688		-3.011

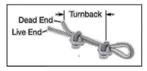
BASIC LOAD CASES

DEAD LOAD	0.0378 PSF (FABRIC)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	5 PSF
ROOF SNOW LOAD	5 PSF
SUPERIMPOSED LOADS	

WIND LOAD
ULTIMATE DESIGN WIND SPEED (3 SEC GUST) 115 MPH
VELOCITY PRESSURE qz 25.32 PSF
COMPONENT AND CLADDING qz
(CABLE AND CABLE HARDWARE ONLY) 25.32 PSF

SEISMIC LOAD
SEISMIC RESPONSE COEFFICIENTS Cs 1.6
DESIGN BASE SHEAR 26584 LB

Forged Single-Saddle Wire Rope Clamps—Not for Lifting



A forged fabrication allows these to be used in critical applications such as tie downs and support lines. They must be oriented with the saddle on the long (live) end and U-bolt on the short (dead) end. Also known as wire rope clips.

Galvanized steel clamps have a thick coating for corrosion resistance.

316 stainless steel clamps are the most corrosion resistant fittings we offer. They provide excellent resistance to salt water and chemicals.

Warning: Test all assemblies for required strength before use. Do not use with coated rope unless the coating is removed.

For Rope Dia.	No. of Clamps Required	Rope Turnback	Required Torque, ft.-lbs.	Clamp Ht.	Clamp Wd.	Clamp Thick.	Capacity	Specifications Met
Galvanized Steel								
1/8"	2	3 1/4"	4.5	1 1/8"	1"	13/16"	80% of the Rope's Capacity	—
3/16"	2	3 3/4"	7.5	1 1/2"	1 3/16"	1"	80% of the Rope's Capacity	—
1/4"	2	4 3/4"	15	1 7/8"	1 1/4"	1 1/4"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
5/16"	2	5 1/4"	30	2 1/8"	1 11/16"	1 5/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
3/8"	2	6 1/2"	45	2 7/16"	2"	1 11/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
7/16"	2	7"	65	3 1/16"	2 3/16"	1 13/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1/2"	3	11 1/2"	65	3 1/16"	2 5/16"	1 15/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
9/16"	3	12"	95	3 5/8"	2 1/2"	2 1/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
5/8"	3	12"	95	3 5/8"	2 1/2"	2 1/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
3/4"	4	18"	130	4 3/16"	2 7/8"	2 1/4"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
7/8"	4	19"	225	4 3/4"	3 3/16"	2 1/2"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1"	5	28"	225	5 5/16"	3 1/2"	2 11/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 1/8"	6	34"	225	5 13/16"	3 5/8"	2 13/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 1/4"	7	44"	360	6 5/8"	4 3/16"	3 3/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 3/8"	7	44"	360	6 3/4"	4 1/4"	3 3/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450
1 1/2"	8	54"	360	7 7/16"	4 1/2"	3 7/16"	80% of the Rope's Capacity	Fed. Spec. FF-C-450

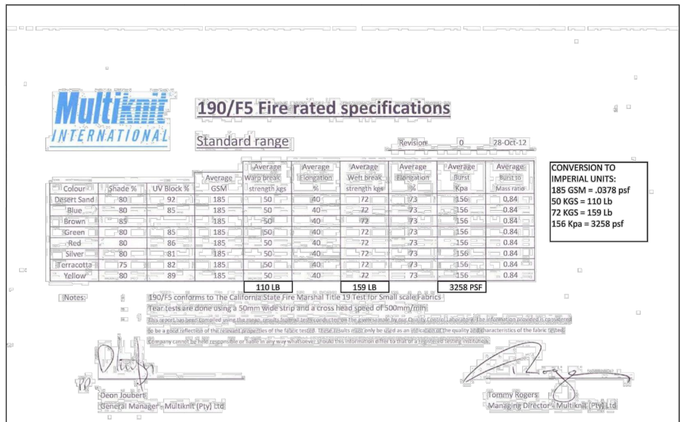
Aircraft Cable

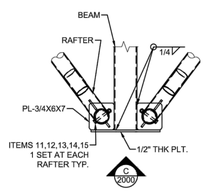
Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.

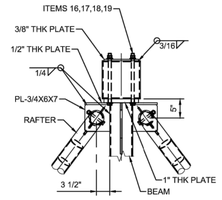
7 x 19

7 x 19 Dia. (In)	Approx. Wt 1000 Ft/lbs	Galvanized Min. Breaking Strengths (lbs)
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400





DETAIL-6
REFER TO TOP VIEW PG 1000



DETAIL-7
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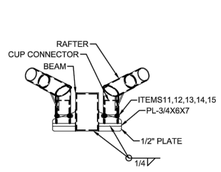


VIEW C
REFER TO DETAIL-6

USA SHADE & Fabric Structures

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Stockton Joint Unified School District

PROJECT NAME:
Cesar Chavez High School

LOCATION:
2929 Windflower Lane
Stockton, CA 95212

MODEL NUMBER:
DSA3022060-16

STRUCTURE TYPE:
FULL CANTILEVER
HIP JOINED DSA

SIZE: MAXIMUM
20' x 200' x 15'e MAX.

SCALE : NONE

DRAWING SIZE: D

LICENSED ARCHITECT DAVID HIGGINSON No. C-19608 REN. 10-31-19 STATE OF CALIFORNIA
08/10/2018 10:08:51 AM

REGISTERED PROFESSIONAL ENGINEER ALBERT No. 3693 STRUCTURAL STATE OF CALIFORNIA 8/10/2018

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
APP. NO: 04 117140 INCR :
AC DF FLS DS SS VN
DATE 08/14/2018
FILE NUMBER: PC-SS

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	JO	03/17/18
Design By :	MP	03/17/18
Approved By :	JO	03/17/18

DRAWING DESCRIPTION:
REACTIONS

DWG. DSA3022060-16

SHEET 10.2-2000

REV. NC

DESCRIPTION | REV | DATE | DRW | CHK | ENG

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesignInc.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

STAMP

CONSULTANT

SHEET TITLE
FULL CANTILEVER HIP JOINED - REACTIONS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.4

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46

USASHADE & Fabric Structures, Inc.

SHADE STRUCTURE

DSA P.C. 04-118151

(REVISIONS TO 04-117219)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118151 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05.22.19

USASHADE & Fabric Structures

CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428

CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Stockton Joint Unified School District

PROJECT NAME:
Cesar Chavez High School

LOCATION:
2929 Windflower Lane
Stockton, CA 95212

MODEL NUMBER: SEE SELECTION

SITE SPECIFIC APPLICATION TITLE SHEET SHALL INCLUDE:

APPLICABLE CODES

- 2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC FIRE SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17a	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS & THEIR APPURTENANCES	2016 EDITION
NFPA 25	STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE	2016 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2015 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ICC 300	ICC STANDARDS ON BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRAND STANDS	2012 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS	2005 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES	2003 EDITION
UL521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2016 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.

ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.).

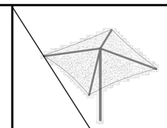
ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

CODE DATA

SITE SPECIFIC APPLICATION SITE PLAN SHALL INCLUDE:

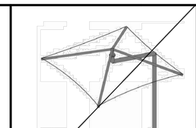
1. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
2. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
3. PROVIDE CODE ANALYSIS INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTION (V-B). INDICATE OCCUPANT LOAD FACTOR per 2016 CBC, SECTION 1004.
4. INDICATE LOCATIONS OF FIRE EXTINGUISHER WITHIN 75 FEET.
5. SHOW LOCATIONS OF AUDIBLE FIRE ALARM.
6. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20' FOR SNOW LOAD MODEL (ASCE 7-10).
7. ACTUAL SITE ELEVATION (FT.) TO DETERMINE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-10 (FOR SNOW LOAD MODEL).
8. FOR RECESSED BASE PLATE (RBP) OPTION: ARCHITECT/ENGINEER OF RECORD TO SPECIFY THE LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST). AS DEFINED IN AISC 341-10 SECTION A.3.4b, A4.1 AND A4.2 PER NOTE ON EACH INDIVIDUAL MODEL ENGINEERING DRAWING WHICH RELATES TO DEMAND CRITICAL WELD AND "L.A.S.T." TEMPERATURE (EITHER STRUCTURAL STEEL NOTE #14).
9. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF SHADE STRUCTURE.
10. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B & C" RESPECTIVELY IN ASCE 19-10, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
11. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.
12. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.
13. PROVIDE COPY OF CURRENT REGISTERED FLAME RESISTANT PRODUCT LETTER ON SPECIFIC SITE PLAN.

GENERAL NOTES



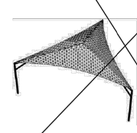
DSA 103 - 1 / PC T-2.0

MODEL: DSA1032020-16
STRUCTURE: 20' x 20' x 12' SINGLE POST PYRAMID UNIT
MAX. AREA= 400 SQ. FT.
MAX. OCCUPANCY = 26



DSA 103 - 1 / PC T-2.0

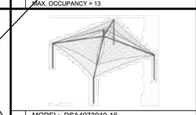
MODEL: DSA1241414-16
STRUCTURE: 14' x 14' x 12' SINGLE POST PYRAMID CANTILEVER
MAX. AREA = 196 SQ. FT.
MAX. OCCUPANCY = 13



DSA 103 - 2 / PC T-2.0

MODEL: DSA0730125-16
STRUCTURE: TRIANGLE
MAX. AREA = 271 SQ. FT.
MAX. OCCUPANCY = 34

MODEL: DSA0730410-16
STRUCTURE: TRIANGLE
MAX. AREA = 692 SQ. FT.
MAX. OCCUPANCY = 66



MODEL: DSA4073040-16
STRUCTURE: 30' x 40' x 14' MARINER PEAK
MAX. AREA = 1200 SQ. FT.
MAX. OCCUPANCY = 80

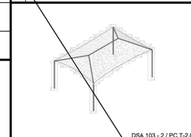
MODEL: DSA4073040-16
STRUCTURE: 30' x 40' x 18' MARINER PEAK
MAX. AREA = 1200 SQ. FT.
MAX. OCCUPANCY = 80

DSA 103 - 2 / PC T-2.0

MODEL: DSA401J-16
STRUCTURE: JOINED HIP
MAX. AREA - VARIES SEE 24.1-1000 FOR OPTIONS
MAX. OCCUPANCY = VARIES

SEE SHEET 24.1-1000 FOR SELECTION OPTIONS

NUMBER OF UNITS JOINED IS GOVERNED BY TOTAL AREA, OCCUPANCY AND SITE CONDITIONS.



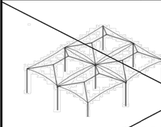
DSA 103 - 2 / PC T-2.0

MODEL: DSA4012030-16
STRUCTURE: 20' x 30' x 12' HIP UNIT
MAX. AREA = 600 SQ. FT.
MAX. OCCUPANCY = 40

MODEL: DSA4013030-16
STRUCTURE: 30' x 30' x 12' HIP UNIT
MAX. AREA = 900 SQ. FT.
MAX. OCCUPANCY = 60

MODEL: DSA4013040-16
STRUCTURE: 30' x 40' x 15' HIP UNIT
MAX. AREA = 1200 SQ. FT.
MAX. OCCUPANCY = 80

MODEL: DSA4014040-16
STRUCTURE: 40' x 40' x 15' HIP UNIT
MAX. AREA = 1600 SQ. FT.
MAX. OCCUPANCY = 106



DSA 103 - 2 / PC T-2.0

MODEL: DSA401Q-16
STRUCTURE: QUAD JOINED HIP
MAX. AREA - VARIES SEE 25.1-1000 FOR OPTIONS
MAX. OCCUPANCY = VARIES

SEE SHEET 25.1-1000 FOR SELECTION OPTIONS

NUMBER OF UNITS JOINED IS GOVERNED BY TOTAL AREA, OCCUPANCY AND SITE CONDITIONS.

DSA 103 - 2 / PC T-2.0

MODEL: DSA603M01-16
STRUCTURE: 40' Ø HEXAGON
MAX. AREA - 1,040 SQ. FT.
MAX. OCCUPANCY = 69

MODEL: DSA603M02-16
STRUCTURE: 60' Ø HEXAGON
MAX. AREA - 2,338 SQ. FT.
MAX. OCCUPANCY = 156

UNIT SELECTION AND DESCRIPTION

DRAWING NUMBER	DRAWING DESCRIPTION	STRUCTURE TYPE	MAX SIZE	MODEL NUMBER
P.C. T-1.0	P.C. TITLE SHEET			
P.C. T-2.0	DSA 103 FORMS			
~~16.1-1000~~	~~PRODUCT INFORMATION~~	~~SINGLE POST PYRAMID~~	~~20 X 20~~	~~DSA1032020-16~~
~~16.2-2000~~	~~REACTIONS~~	~~SINGLE POST PYRAMID~~	~~20 X 20~~	~~DSA1032020-16~~
~~17.1-1000~~	~~PRODUCT INFORMATION~~	~~SINGLE POST PYRAMID CANTILEVER~~	~~14 X 14~~	~~DSA1241414-16~~
~~17.2-2000~~	~~REACTIONS~~	~~SINGLE POST PYRAMID CANTILEVER~~	~~14 X 14~~	~~DSA1241414-16~~
~~18.1-1000~~	~~PRODUCT INFORMATION~~	~~TRIANGLE~~	~~25 X 25~~	~~DSA30125-16~~
~~18.2-2000~~	~~REACTIONS~~	~~TRIANGLE~~	~~25 X 25~~	~~DSA30125-16~~
~~19.1-1000~~	~~PRODUCT INFORMATION~~	~~TRIANGLE~~	~~40 X 40~~	~~DSA30140-16~~
~~19.2-2000~~	~~REACTIONS~~	~~TRIANGLE~~	~~40 X 40~~	~~DSA30140-16~~
~~20.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP~~	~~20 X 30~~	~~DSA401203012-16~~
~~20.2-2000~~	~~REACTIONS~~	~~HIP~~	~~20 X 30~~	~~DSA401203012-16~~
~~21.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP~~	~~30 X 30~~	~~DSA401303012-16~~
~~21.2-2000~~	~~REACTIONS~~	~~HIP~~	~~30 X 30~~	~~DSA401303012-16~~
~~22.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP~~	~~30 X 40~~	~~DSA401304012-16~~
~~22.2-2000~~	~~REACTIONS~~	~~HIP~~	~~30 X 40~~	~~DSA401304012-16~~
~~23.1-1000~~	~~PRODUCT INFORMATION~~	~~HIP~~	~~40 X 40~~	~~DSA4014040-16~~
~~23.2-2000~~	~~REACTIONS~~	~~HIP~~	~~40 X 40~~	~~DSA4014040-16~~
24.1-1000	PRODUCT INFORMATION	JOINED HIPS	VARIES	DSA401J-16
24.2-1001	DETAILS	JOINED HIPS	VARIES	DSA401J-16
24.3-2000	REACTIONS	JOINED HIPS	VARIES	DSA401J-16
~~25.1-1000~~	~~PRODUCT INFORMATION~~	~~QUAD JOINED HIPS~~	~~VARIES~~	~~DSA401Q-16~~
~~25.2-1001~~	~~DETAILS~~	~~QUAD JOINED HIPS~~	~~VARIES~~	~~DSA401Q-16~~
~~25.3-2000~~	~~REACTIONS~~	~~QUAD JOINED HIPS~~	~~VARIES~~	~~DSA401Q-16~~
~~26.1-1000~~	~~PRODUCT INFORMATION~~	~~HEXAGON~~	~~40 Ø~~	~~DSA60340-16~~
~~26.2-2000~~	~~REACTIONS~~	~~HEXAGON~~	~~40 Ø~~	~~DSA60340-16~~
~~27.1-1000~~	~~PRODUCT INFORMATION~~	~~HEXAGON~~	~~60 Ø~~	~~DSA60360-16~~
~~27.2-2000~~	~~REACTIONS~~	~~HEXAGON~~	~~60 Ø~~	~~DSA60360-16~~
~~28.1-1000~~	~~PRODUCT INFORMATION~~	~~MARINER PEAK~~	~~30 X 40~~	~~DSA4073040-16~~
~~28.2-2000~~	~~REACTIONS~~	~~MARINER PEAK~~	~~30 X 40~~	~~DSA4073040-16~~

TOTAL SHEET COUNT: 30 SHEETS

ARCHITECT

HIGGINSON ARCHITECTS INCORPORATED
707 Brookside Avenue
Redlands, CA 92373
(909) 375-3030
www.haarchinc.com

LICENSED ARCHITECT
DAVID HIGGINSON
NO.C19166
REN. 10-31-19
STATE OF CALIFORNIA

ARCHITECT

ENGINEER

Mark Lowe, S.E.
Structural Engineer
19471 Misty Ridge Lane
Trabuco Canyon, California 92367
ph. 949-400-1265
malowe@me.com

REGISTERED PROFESSIONAL ENGINEER
MARK ALBERT LOWE
No. 3693
STRUCTURAL
STATE OF CALIFORNIA

5/21/19

DSA PRE-CHECK SHADE STRUCTURES

P.C. 04-118151
(REVISIONS TO 04-117219)

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	DWH	05/22/19
Design By :	DWH	05/22/19
Approved By :	DWH	05/22/19

DRAWING DESCRIPTION:
P.C. TITLE SHEET

SHEET
P.C. T-1.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

CONSULTANT

SHEET TITLE
JOINED HIP -
P.C. TITLE SHEET

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

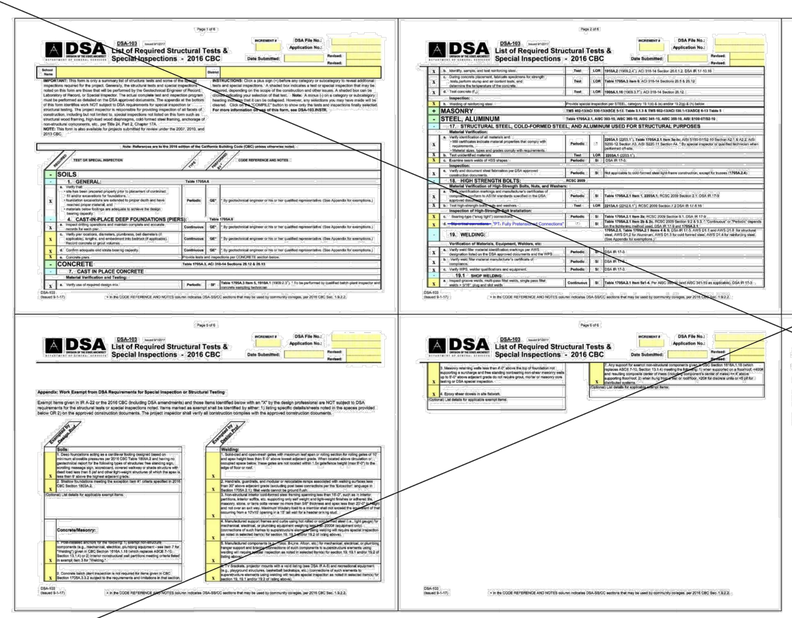
SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

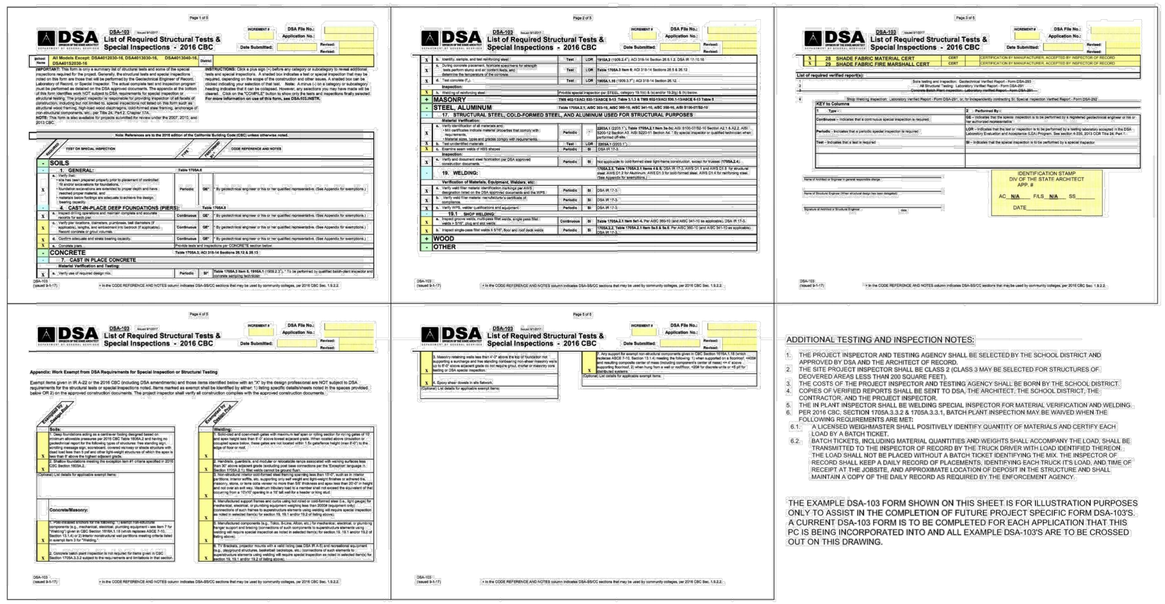
DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.5

JOINED HIP - P.C.TITLE SHEET

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46



SAMPLE DSA 103 STATEMENT OF STRUCTURAL TESTS AND INSPECTION FORMS FOR CANTILEVER AND SINGLE POST UNITS | --- | 1



SAMPLE DSA 103 STATEMENT OF STRUCTURAL TESTS AND INSPECTION FORMS FOR ALL UNITS EXCEPT CANITLEVER AND SINGLE POST | --- | 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118151 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 05.22.19

USA SHADE & Fabric Structures
CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Stockton Joint Unified School District

PROJECT NAME:
Cesar Chavez High School

LOCATION:
2929 Windflower Lane
Stockton, CA 95212

MODEL NUMBER: SEE SELECTION

HIGGINSON ARCHITECTS INCORPORATED
707 Brookside Avenue
Redlands, CA 92373
(909)375-3030
www.haarchinc.com

ARCHITECT

Mark Lowe, S.E.
Structural Engineer
19471 Misty Ridge Lane
Trabuco Canyon, California 923679
949-400-1265
malowe@me.com

ENGINEER

DSA PRE-CHECK SHADE STRUCTURES

P.C. 04-118151
(REVISIONS TO 04-117219)

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	DWH	05/22/19
Design By :	DWH	05/22/19
Approved By :	DWH	05/22/19

DRAWING DESCRIPTION:
DSA 103 FORMS

SHEET
P.C. T-2.0

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
JOINED HIP - DSA 103 FORMS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.6

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restort\CAD__USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	CBC 2016 (BASED ON IBC 2015)
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH (3-Sec. Gust); EXPOSURE C; TOPOGRAPHIC FACTOR , Kzt = 1.0

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2016 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2016, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2016, ASCE 7-10, AISC 360-10, AISC 341-10, ACI 318-14, ASCE 55-10 & ASCE 19-10

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY USA SHADE OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2016 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY USA SHADE SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2016 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-10: GRADE "B", IN ITS' ENTIRETY.
TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE 42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE B, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE and RECTANGULAR 46,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS
ROUND PIPE 42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. EITHER SMAW OR GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, FYS = 60 KSI, FS = 95KSI ,ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2. REFERING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS.

12.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 N (GALVANIZED). ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

13.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363).
- HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

14.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

15.- COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION. ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329), OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE TESTED PER CBC 2016 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT, WATER/CEMENT RATIO OF 0.45, PER ACI 318-14 CHAPTER 5. REINFORCING STEEL TO BE Fy= 60000 PSI , MIN. GR. 60

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED). ANCHOR BOLT'S EMBEDMENT NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4" 30 IN (MINIMUM EMBEDMENT)

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD. OR OTHER COMPANY WHO CAN MANUFACTURE FABRIC, WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS.

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO DSA AT SITE SPECIFIC INSTALLATION.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT, FABRICS SAMPLES OF THE SAME MATERIAL WHICH ARE MAINTAINED AT THE PROJECTS SITE SHALL BE TESTED TO BE IN COMPLIANCE WITH ASTM D5034 AND D2261. THE ANNUAL TESTING ON THE APPROVED PLANS SHALL BE COMPARED TO THE FABRIC SPECIFICATIONS INDICATED IN NOTE 1 OF "FABRIC SPECIFICATION" ON THE APPROVED PLANS. THE FABRIC SHALL BE REPLACED WHEN THE TEST RESULTS RETURN LESS THAN 50% OF THE ULTIMATE VALUES IN NOTE 1 OF "FABRIC SPECIFICATION".

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. SHADE STRUCTURE SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023A, ASTM 1023M-02, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 250 LBS MINIMUM. THE MAXIMUM CALCULATED CABLE TENSIONS ARE IN TABLE 1, ITEM 22.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

2016 CBC PC DESIGN NOTES

FLOOR LIVE LOAD	N/A	
ROOF LIVE LOAD	RLL	5 PSF
ALLOWABLE SOIL PRESSURE:		
DL + LL (CONC FTG)	1500 PSF	
DL + LL + SEISMIC (CONC FTG)	1500 PSF	
LATERAL BEARING DESIGN VALUE	100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2	

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT) PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD	5 PSF
FLOOD HAZARD AREA	NO

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-10, SECTION 27.4.3		
-ULTIMATE DESIGN WIND SPEED (3 SEC GUST)	V	115 MPH
-WIND EXPOSURE FACTOR	C	
-TOPOGRAPHIC FACTOR	Kzt	1
-RISK CATEGORY	II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	SEE TABLE 1, ITEM 25
-VELOCITY PRESSURE	qz	SEE TABLE 1, ITEM 24
SEISMIC DESIGN:		
-SITE CLASS	D	
	SS	3.00g
	S1	1.389g
-SPECTRAL RESPONSE COEFFICIENTS	SDS	2.00
	SD1	1.39

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

-SEISMIC IMPORTANCE FACTOR	I	1.0
-DESIGN BASE SHEAR	V	SEE TABLE 1, ITEM 23
-SEISMIC RESPONSE COEFFICIENTS	Cs	1.6
-RESPONSE MODIFICATION FACTOR	R	1.25
-ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE
-RISK CATEGORY	II	
-SEISMIC DESIGN CATEGORY		E
-SITE COEFFICIENT CATEGORY	Fa	1
	Fv	1.5

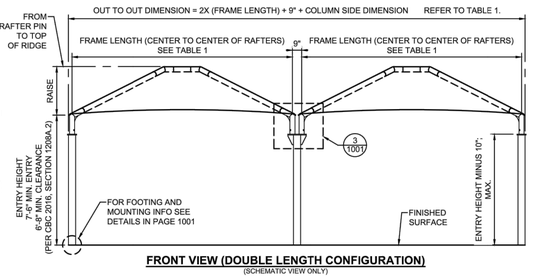
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

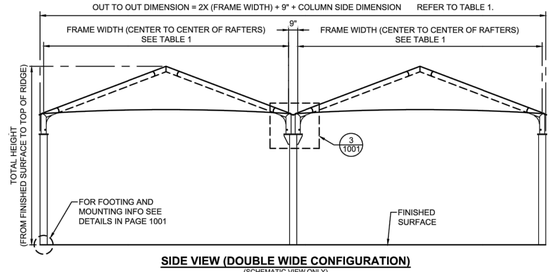
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 14 FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING) FOR FOOTING TYPE "A" (2'-0" DIAMETER) AND A CLEAR DISTANCE OF 17'-6" FOR FOOTING TYPE "B" (2'-6" DIAMETER). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



FRONT VIEW (DOUBLE LENGTH CONFIGURATION)
(SCHEMATIC VIEW ONLY)



SIDE VIEW (DOUBLE WIDE CONFIGURATION)
(SCHEMATIC VIEW ONLY)

CODE ANALYSIS

BUILDING	OCCUPANCY	CONST. TYPE	AREA (SQ. FT.)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
SHADE STRUCTURE					

MAXIMUM OCCUPANT LOAD (PER CBC 2016 TABLE 1604A.5)

-K-12:	250 PERSONS
-PUBLIC ASSEMBLY:	300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE:	500 PERSONS

TABLE 1

ITEM	DESCRIPTION	JOINED FRAMES 20'X25'X12'e	JOINED FRAMES 20'X30'X12'e	JOINED FRAMES 30'X30'X12'e	JOINED FRAMES 30'X40'X12'e	JOINED FRAMES 20'X25'X15'e	JOINED FRAMES 20'X30'X15'e	JOINED FRAMES 30'X30'X15'e	JOINED FRAMES 30'X40'X15'e
	PRODUCT NAME	DSA401J202512-16	DSA401J203012-16	DSA401J303012-16	DSA401J304012-16	DSA401J2025-16	DSA401J2030-16	DSA401J3030-16	DSA401J3040-16
	DOUBLE LENGTH CONFIGURATIONS (WxL)	20' X (50',75')	20' x (60',90')	30' X (60',90')	30' X (80',120')	20' x (50',75')	20' x (60',90')	30' X (60',90')	30' X (80',120')
	DOUBLE WIDE CONFIGURATIONS (WxL)	(40',60') X 25'	(40',60') X 30'	(60',90') X 30'	(60',90') X 40'	(40',60') X 25'	(40',60') X 30'	(60',90') X 30'	(60',90') X 40'
	MAXIMUM INDIVIDUAL FRAME LENGTH	25'-0"	30'-0"	30'-0"	40'-0"	25'-0"	30'-0"	30'-0"	40'-0"
	MAXIMUM INDIVIDUAL FRAME WIDTH	20'-0"	20'-0"	30'-0"	30'-0"	20'-0"	20'-0"	30'-0"	30'-0"
	MAXIMUM ENTRY HEIGHT	12'-0"	12'-0"	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"
	MAXIMUM DISTANCE "A"	7'-6"	7'-6"	11'-3"	11'-3"	7'-6"	7'-6"	11'-3"	11'-3"
	MAXIMUM RAISE	3'-10"	3'-10"	5'-8"	5'-8"	3'-10"	3'-10"	5'-8"	5'-8"
	MAXIMUM TOTAL HEIGHT	15'-10"	15'-10"	17'-8"	17'-8"	18'-10"	18'-10"	20'-8"	20'-8"
1	COLUMN	HSS 5.0 x 5.0 x 0.250	HSS 5.0 x 5.0 x 0.250	HSS 6.0 x 6.0 x 0.375	HSS 7.0 x 7.0 x 0.375	HSS 5.0 x 5.0 x 0.250	HSS 7.0 x 7.0 x 0.250	HSS 7.0 x 7.0 x 0.375	HSS 7.0 x 7.0 x 0.375
2	CUP CONNECTOR (6" LG)	HSS 3.5 x 0.25	HSS 4.0 x 0.25	HSS 4.5 x 0.375	HSS 5.0 x 0.375	HSS 4.0 x 0.25	HSS 4.0 x 0.25	HSS 4.5 x 0.375	HSS 5.0 x 0.375
3	RAFTER	HSS 4.0 x 0.188	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258	4.50 GA 7 RD. TUBE (4.5 x 0.188)	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258
4	EXTENSION	HSS 4.0 x 0.188	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258	4.50 GA 7 RD. TUBE (4.5 x 0.188)	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258
5	CROSSPIECE	HSS 4.0 x 0.188	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258	4.50 GA 7 RD. TUBE (4.5 x 0.188)	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258
6	RIDGE	HSS 4.0 x 0.188	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258	4.50 GA 7 RD. TUBE (4.5 x 0.188)	4.50 GA 7 RD. TUBE (4.5 x 0.188)	5.00 GA 7 RD. TUBE (5.0 x 0.188)	HSS 5.563 x 0.258
7	FABRIC TOP	FR COLOURSHADE Z25	FR COLOURSHADE Z25	FR COLOURSHADE Z25	FR COLOURSHADE Z25	FR COLOURSHADE Z25	FR COLOURSHADE Z25	FR COLOURSHADE Z25	FR COLOURSHADE Z25
8	CABLE (GALVANIZED)	Ø3/8" CABLE	Ø3/8" CABLE	Ø3/8" CABLE	Ø3/8" CABLE	Ø3/8" CABLE	Ø3/8" CABLE	Ø3/8" CABLE	Ø3/8" CABLE
9	CABLE CLAMP (GALVANIZED)	Ø3/8" CABLE CLAMP	Ø3/8" CABLE CLAMP	Ø3/8" CABLE CLAMP	Ø3/8" CABLE CLAMP	Ø3/8" CABLE CLAMP	Ø3/8" CABLE CLAMP	Ø3/8" CABLE CLAMP	Ø3/8" CABLE CLAMP
10	HEX BOLT	Ø1/2"-13NCx6" HEX BOLT 18-8 SS	Ø5/8"-11NCx6" HEX BOLT 18-8 SS	Ø5/8"-11NCx6 1/2" HEX BOLT 18-8 SS	Ø3/4"-10NCx7" HEX BOLT ASTM A325 GALV.	Ø5/8"-11NCx6" HEX BOLT 18-8 SS	Ø5/8"-11NCx6" HEX BOLT 18-8 SS	Ø5/8"-11NCx6 1/2" HEX BOLT 18-8 SS	Ø3/4"-10NCx7" HEX BOLT ASTM A325 GALV.
11	HEX NUT	Ø1/2"-13NC HEX NUT 18-8 SS	Ø5/8"-11NC HEX NUT 18-8 SS	Ø5/8"-11NC HEX NUT 18-8 SS	Ø3/4"-10NC HEX NUT ASTM A563 GALV.	Ø5/8"-11NC HEX NUT 18-8 SS	Ø5/8"-11NC HEX NUT 18-8 SS	Ø5/8"-11NC HEX NUT 18-8 SS	Ø3/4"-10NC HEX NUT ASTM A563 GALV.
12	SPLIT LOCK WASHER	Ø1/2" SPLIT LOCK WASHER 18-8 SS	Ø5/8" SPLIT LOCK WASHER 18-8 SS	Ø5/8" SPLIT LOCK WASHER 18-8 SS	Ø3/4" SPLIT LOCK WASHER ASTM F436 GALV.	Ø5/8" SPLIT LOCK WASHER 18-8 SS	Ø5/8" SPLIT LOCK WASHER 18-8 SS	Ø5/8" SPLIT LOCK WASHER 18-8 SS	Ø3/4" SPLIT LOCK WASHER ASTM F436 GALV.
13	DERLIN WASHER (ACETAL)	Ø1/2" FLAT WASHER DELRIN	Ø5/8" FLAT WASHER DELRIN	Ø5/8" FLAT WASHER DELRIN	N/A	Ø5/8" FLAT WASHER DELRIN	Ø5/8" FLAT WASHER DELRIN	Ø5/8" FLAT WASHER DELRIN	N/A
14	FLAT WASHER	Ø1/2" FLAT WASHER 18-8 SS	Ø5/8" FLAT WASHER 18-8 SS	Ø5/8" FLAT WASHER 18-8 SS	Ø3/4" FLAT WASHER ASTM F436 GALV.	Ø5/8" FLAT WASHER 18-8 SS	Ø5/8" FLAT WASHER 18-8 SS	Ø5/8" FLAT WASHER 18-8 SS	Ø3/4" FLAT WASHER ASTM F436 GALV.
15	DRILLED PIER FOOTING DETAIL	FOOTING TYPE A (Ø2'-0")	FOOTING TYPE A (Ø2'-0")	FOOTING TYPE B (Ø2'-6")	FOOTING TYPE B (Ø2'-6")	FOOTING TYPE A (Ø2'-0")	FOOTING TYPE A (Ø2'-0")	FOOTING TYPE B (Ø2'-6")	FOOTING TYPE B (Ø2'-6")
16	FOOTING DEPTH	7'-6"	7'-6"	8'-6"	9'-6"	7'-6"	8'-6"	9'-3"	10'-6"
17	ALT. SPREAD FOOTING SIZE	3'-6" SQ	4'-0" SQ	4'-6" SQ	5'-0" SQ	4'-0" SQ	4'-6" SQ	5'-6" SQ	6'-0" SQ
18	HORIZONTAL REBAR	6#5 E.W. TOP AND BOTTOM	7#5 E.W. TOP AND BOTTOM	8#5 E.W. TOP AND BOTTOM	9#5 E.W. TOP AND BOTTOM	7#5 E.W. TOP AND BOTTOM	8#5 E.W. TOP AND BOTTOM	10#5 E.W. TOP AND BOTTOM	10#5 E.W. TOP AND BOTTOM
19	WELD "A" (T&B COLUMN)	3/16"	3/16"	5/16"	5/16"	3/16"	3/16"	5/16"	5/16"
20	WELD "B" (UPPERFRAME)	3/16"	3/16"	3/16"	1/4"	3/16"	3/16"	3/16"	1/4"
21	WELD "C" (CUP CONNECTOR)	3/16"	3/16"	5/16"	5/16"	3/16"	3/16"	5/16"	5/16"
22	MAXIMUM CABLE TENSION	2376 LB	2460 LB	2833 LB	3708 LB	2449 LB	2744 LB	3162 LB	3793 LB
23	DESIGN BASE SHEAR	16485 LB / 28 COLUMNS	18189 LB / 28 COLUMNS	28714 LB / 28 COLUMNS	40739 LB / 28 COLUMNS	26608 LB / 37 COLUMNS	33770 LB / 37 COLUMNS	48542 LB / 37 COLUMNS	61406 LB / 37 COLUMNS
24	VELOCITY PRESSURE qz	24.46 PSF	24.46 PSF	24.46 PSF	24.46 PSF	25.32 PSF	25.32 PSF	25.32 PSF	25.32 PSF
25	VELOCITY PRESSURE EXPOSURE COEFF.Kz	0.85	0.85	0.85	0.85	0.88	0.88	0.88	0.88

SELECTION CHECKBOX

JOINED FRAMES 20'X25'X12'e		JOINED FRAMES 20'X30'X12'e		JOINED FRAMES 30'X30'X12'e		JOINED FRAMES 30'X40'X12'e		JOINED FRAMES 20'X25'X15'e		JOINED FRAMES 20'X30'X15'e		JOINED FRAMES 30'X30'X15'e		JOINED FRAMES 30'X40'X15'e	
DSA401J202512-16		DSA401J203012-16		DSA401J303012-16		DSA401J304012-16		DSA401J2025-16		DSA401J2030-16		DSA401J3030-16		DSA401J3040-16	
20'X50'X12' MAX		20'X60'X12' MAX		30'X60'X12' MAX		30'X80'X12' MAX		20'X50'X15' MAX		20'X60'X15' MAX		30'X60'X15' MAX		30'X80'X15' MAX	
20'X75'X12' MAX		20'X90'X12' MAX		30'X90'X12' MAX		30'X120'X12' MAX		20'X75'X15' MAX		20'X90'X15' MAX		30'X90'X15' MAX		30'X120'X15' MAX	
40'X25'X12' MAX		40'X30'X12' MAX		60'X30'X12' MAX		60'X40'X12' MAX		40'X25'X15' MAX		40'X30'X15' MAX		60'X30'X15' MAX		60'X40'X15' MAX	
60'X25'X12' MAX		60'X30'X12' MAX		90'X30'X12' MAX		90'X40'X12' MAX		60'X25'X15' MAX		60'X30'X15' MAX		90'X30'X15' MAX		90'X40'X15' MAX	

LICENSED ARCHITECT DAVID HIGGINS NO.C19106 REN. 10-31-19 STATE OF CALIFORNIA

LICENSED PROFESSIONAL ENGINEER MARK LAWRENCE No. 3693 STRUCTURAL STATE OF CALIFORNIA

5/21/19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118151 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05.22.19

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Stockton Joint Unified School District

PROJECT NAME:
Cesar Chavez High School

LOCATION:
2929 Windflower Lane
Stockton, CA 95212

MODEL NUMBER:
DSA401J-16

STRUCTURE TYPE:
JOINED HIPS DSA
SIZE: SEE TABLE 1

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	JO	02/26/18
Design By :	MP	02/26/18
Approved By :	JO	02/26/18

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG.
DSA401J-16

SHEET
24.1-1000

REV.
NC

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

CONSULTANT

SHEET TITLE
JOINED HIP - PRODUCT INFORMATION

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

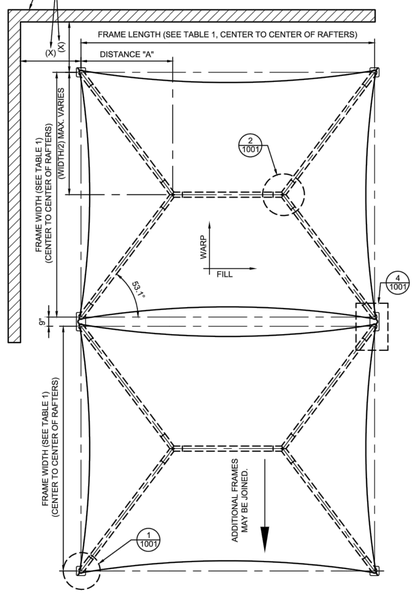
PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

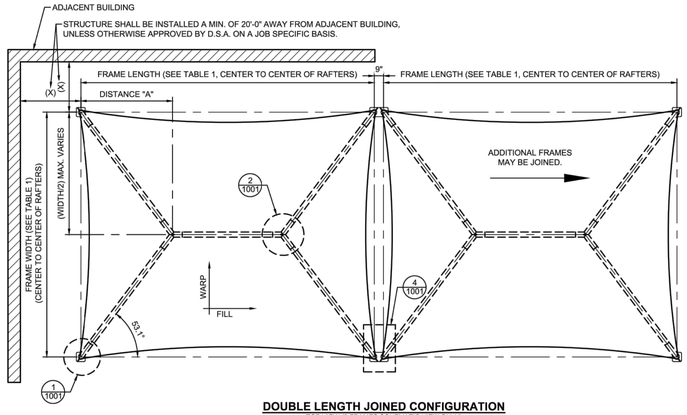
NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.7

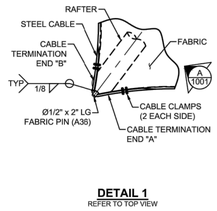
DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46



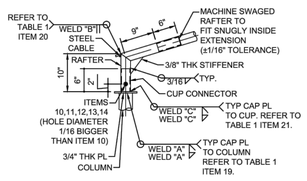
DOUBLE WIDE JOINED CONFIGURATION
TOP VIEW (2 FRAMES SCHEMATIC VIEW ONLY)



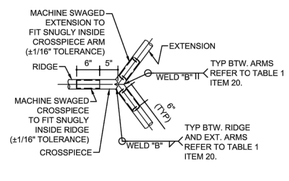
DOUBLE LENGTH JOINED CONFIGURATION
TOP VIEW (2 FRAMES SCHEMATIC VIEW ONLY)



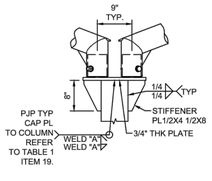
DETAIL 1
REFER TO TOP VIEW



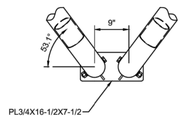
VIEW-A
REFER TO DETAIL-1



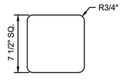
DETAIL-2
REFER TO TOP VIEW



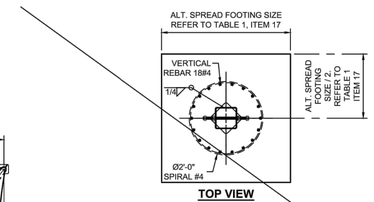
DETAIL 3
REFER TO FRONT/SIDE VIEW



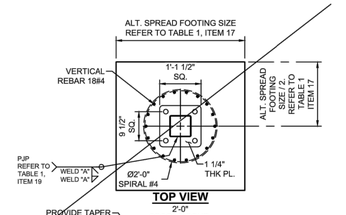
DETAIL-4
REFER TO TOP TOP VIEW



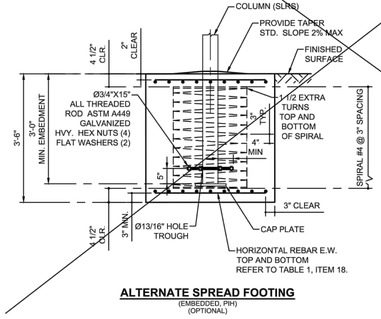
CAP PLATE
(3/4" THK)
TOP FOR ALL SINGLE COLUMNS (TOP & BOT. OF SINGLE PIH COLUMNS)



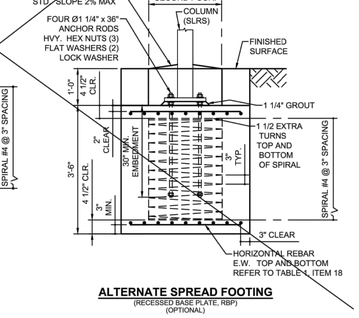
TOP VIEW



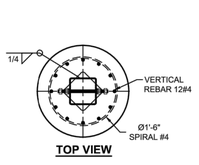
TOP VIEW



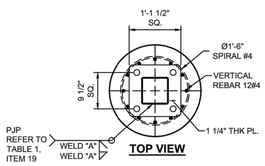
ALTERNATE SPREAD FOOTING
(EMBEDDED, PIH)
(OPTIONAL)



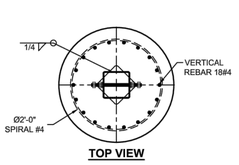
ALTERNATE SPREAD FOOTING
(RECESSED BASE PLATE, RBP)
(OPTIONAL)



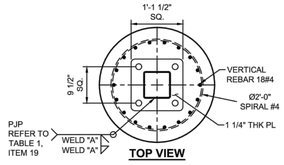
TOP VIEW



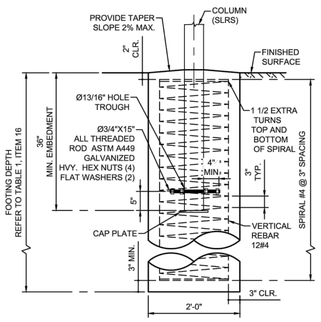
TOP VIEW



TOP VIEW

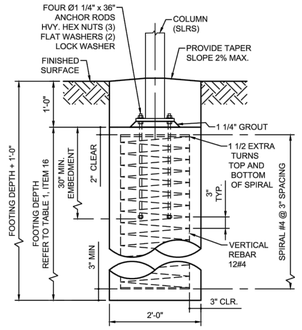


TOP VIEW



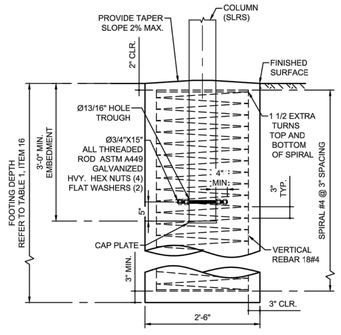
DRILLED PIER FOOTING-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)

DRILLED PIER DETAIL TYPE "A"
REFER TO TABLE 1, ITEM 15



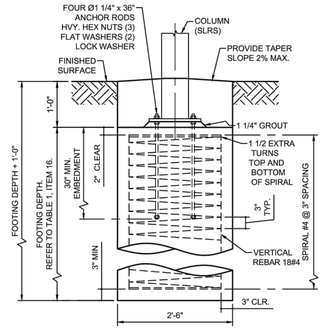
DRILLED PIER FOOTING-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)

DRILLED PIER DETAIL TYPE "A"
REFER TO TABLE 1, ITEM 15



DRILLED PIER FOOTING-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)

DRILLED PIER DETAIL TYPE "B"
REFER TO TABLE 1, ITEM 15



DRILLED PIER FOOTING-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)

DRILLED PIER DETAIL TYPE "B"
REFER TO TABLE 1, ITEM 15

LICENSED ARCHITECT — STATE OF CALIFORNIA — NO.C19165 — REN. 10-31-19

REGISTERED PROFESSIONAL ENGINEER — No. 3693 — STRUCTURAL — STATE OF CALIFORNIA

5/21/19

STRUCTURE TYPE:
JOINED HIPS
DSA
SIZE: SEE TABLE 1

SCALE : NONE

DRAWING SIZE: D

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	JO	02/26/18
Design By :	MP	02/26/18
Approved By :	JO	02/26/18

DRAWING DESCRIPTION:
DETAILS

DWG. DSA401J-16

SHEET 24.2-1001

REV. NC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118151 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05.22.19

USA SHADE & Fabric Structures
CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Stockton Joint Unified School District

PROJECT NAME:
Cesar Chavez High School

LOCATION:
2929 Windflower Lane
Stockton, CA 95212

MODEL NUMBER:
DSA401J-16

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
JOINED HIP - DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

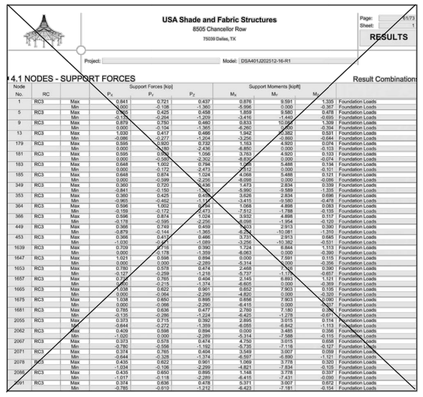
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

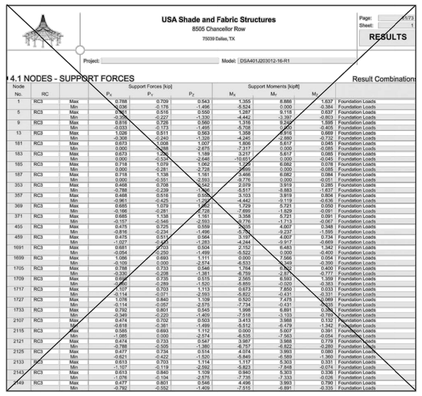
DRAWN BY	CHECKED BY
	CS
DATE ISSUED 03/13/2020	SCALE

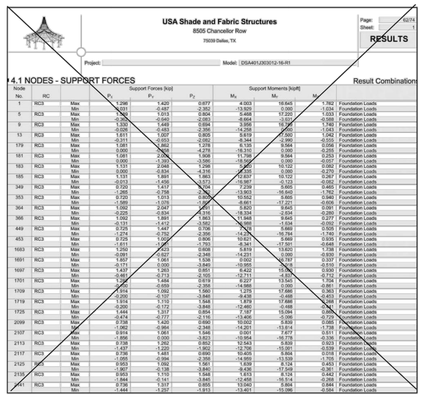
PROJ. NO. 1910900-1211

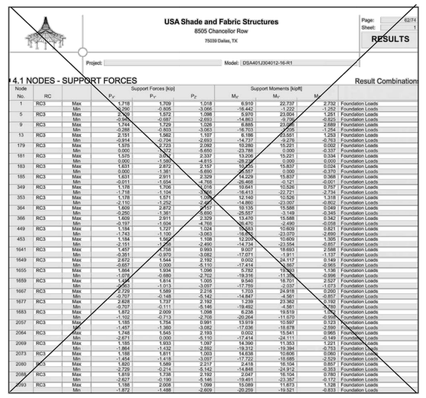
SHEET NO. US1.8

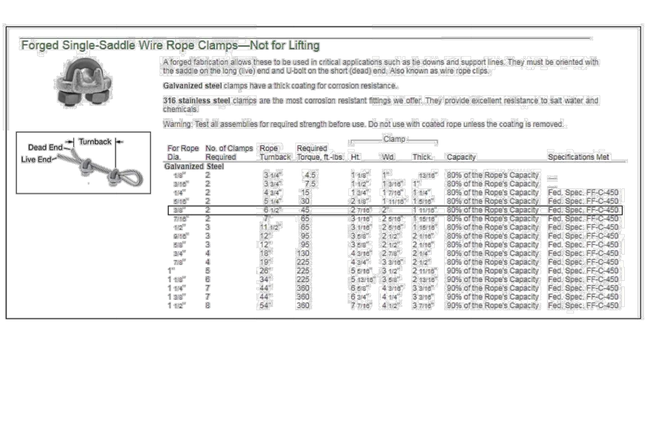
DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46











Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.

7 x 19

7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400

BASIC LOAD CASES

DEAD LOAD	0.0378 PSF (FABRIC)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	5 PSF
ROOF SNOW LOAD	5 PSF
SUPERIMPOSED LOADS	N/A
WIND LOAD	
ULTIMATE DESIGN WIND SPEED (3 SEC GUST)	115 MPH
VELOCITY PRESSURE qz	SEE TABLE 1 ITEM 24
COMPONENT AND CLADDING qz (CABLE AND CABLE HARDWARE ONLY)	SEE TABLE 1 ITEM 24
SEISMIC LOAD	
SEISMIC RESPONSE COEFFICIENTS Cs	1.6
DESIGN BASE SHEAR	SEE TABLE 1 ITEM 23

5/21/19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-118151 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05.22.19

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7760
www.VerdeDesignInc.com

USA SHADE & Fabric Structures
CORPORATE HEADQUARTERS
8505-A CHANCELLOR ROW
DALLAS, TX, 75247
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

PROJECT NAME:

LOCATION:

MODEL NUMBER:
DSA401J-16

STRUCTURE TYPE:
JOINED HIPS
DSA
SIZE: SEE TABLE 1

SCALE : NONE

DRAWING SIZE:
D

STAMP

CONSULTANT

SHEET TITLE
JOINED HIP - REACTIONS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

PRE-CHECK (PC) DOCUMENT
Code : 2016 CBC
A separate project application for construction is required.

Eng. By :	JO	02/26/18
Design By :	MP	02/26/18
Approved By :	JO	02/26/18

DRAWING DESCRIPTION:
REACTIONS

DWG.
DSA401J-16

SHEET
24.3-2000

REV.
NC

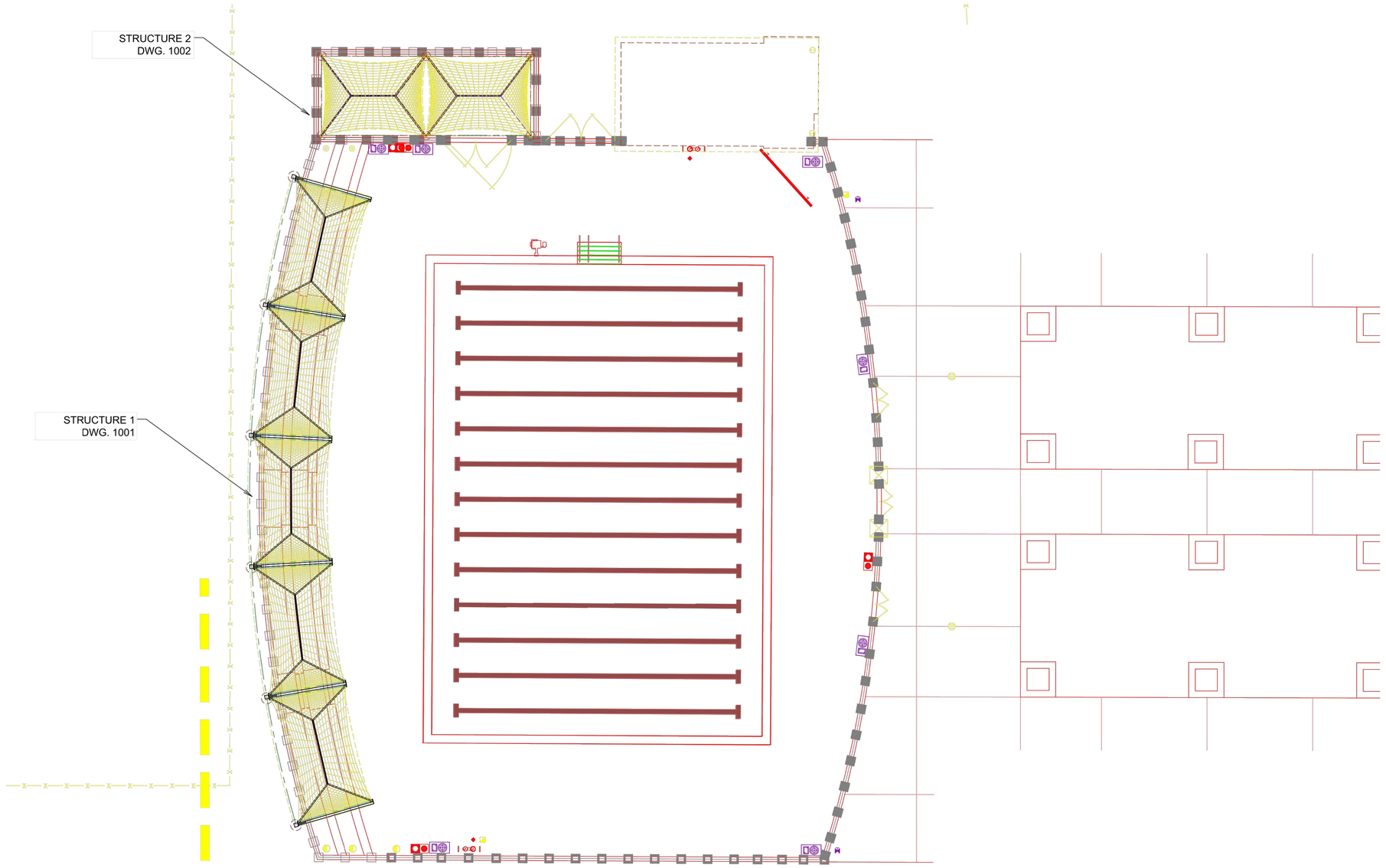
SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.9

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46

NOTES:
-THESE DRAWINGS ARE A PICTORIAL REPRESENTATION OF FABRIC AND STEEL ONLY. NONE OF THE REQUIRED ATTACHMENT OR CONNECTION DETAILS HAVE BEEN DEPICTED.
-ALL DIMENSIONS AND HEIGHTS MUST BE FIELD VERIFIED PRIOR TO ANY FINAL DESIGN, FABRICATION OR INSTALLATION WORK.



PLAN VIEW

TRUE NORTH

CUSTOMER:
STOCKTON JOINT USD

PROJECT NAME:
CHAVEZ HIGH SCHOOL

LOCATION:
2929 WINDFLOWER LN.
STOCKTON, CA 95212

STRUCTURE TYPE:
VARIES

SIZE:
VARIES

USA SHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

REV	DESCRIPTION	DATE	DRW	CHK	ENG
A	REVISED STRUCTURE 1	12/09/19	AZR	AZR	---

Drawn By :	AZR	12/09/19
Checked By :	AZR	12/09/19
Approved By :	AZR	12/09/19

DRAWING DESCRIPTION:
SITE PLAN

DWG. CON-OCT-010-19

PAGE 1000

REV. A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

CONSULTANT

SHEET TITLE
SITE PLAN -
FOR REFERENCE ONLY

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

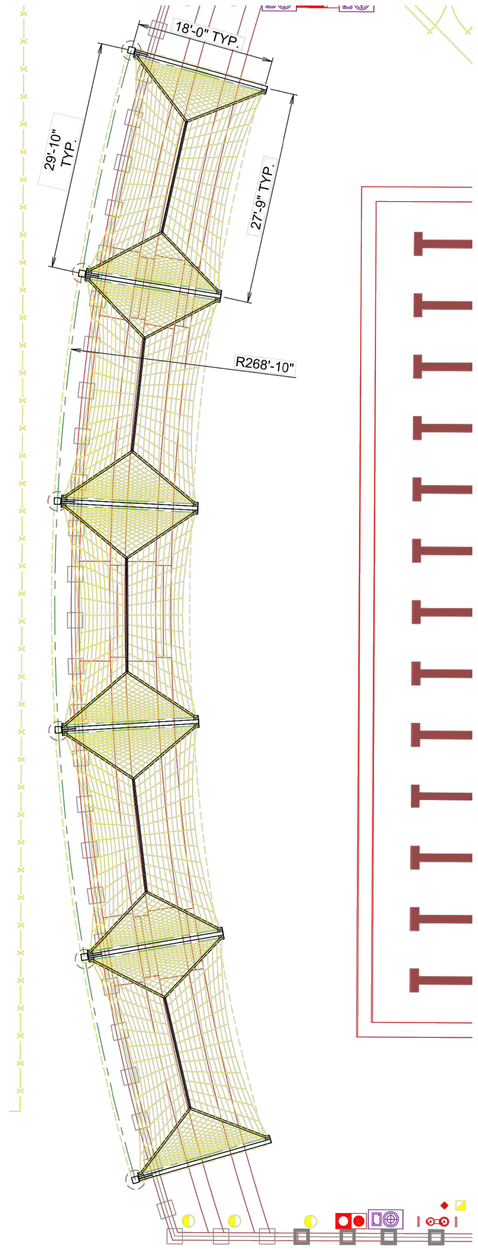
SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
	CS
DATE ISSUED	SCALE
03/13/2020	

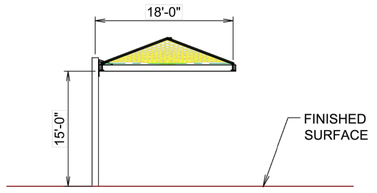
PROJ. NO.
1910900-1211

SHEET NO.
US1.10



PLAN VIEW

TRUE NORTH



TYP. SIDE ELEVATION

NOTES:
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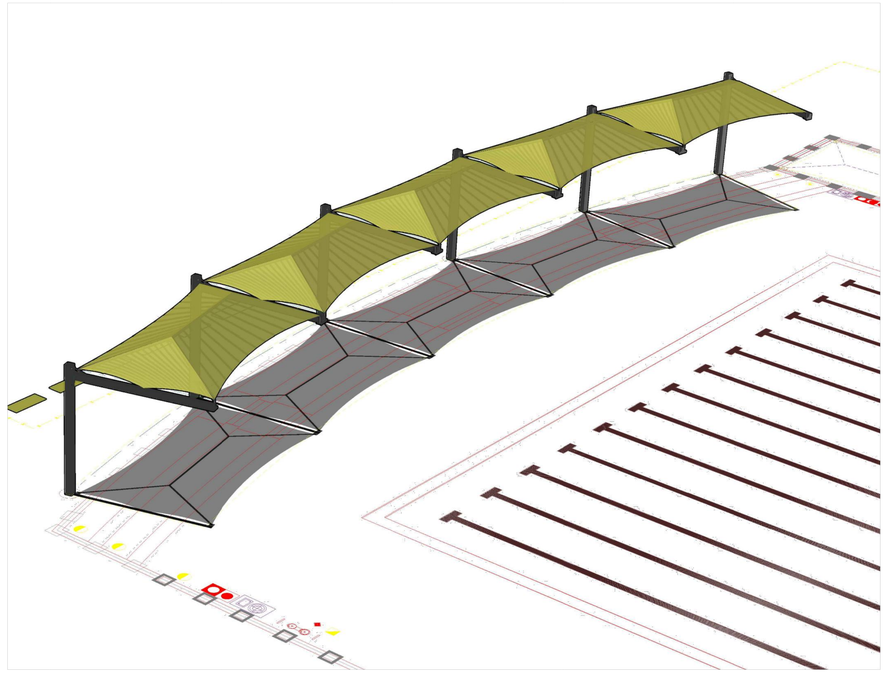
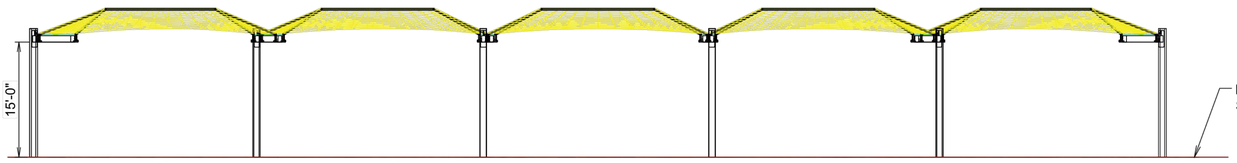


PERSPECTIVE VIEW



EAST ELEVATION

CUSTOMER:
STOCKTON JOINT USD

PROJECT NAME:
CHAVEZ HIGH SCHOOL

LOCATION:
2929 WINDFLOWER LN.
STOCKTON, CA 95212

STRUCTURE TYPE:
CUSTOM JOINED FULL CANTI HIP

SIZE:
VARIES

USA SHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

REV	DESCRIPTION	DATE	DRW	CHK	ENG
A	REVISED NUMBER OF FULL CANTI HIPS TO 5	12/09/19	AZR	AZR	

Drawn By :	AZR	12/09/19
Checked By :	AZR	12/09/19
Approved By :	AZR	12/09/19

DRAWING DESCRIPTION:
STRUCTURE 1

DWG. CON-OCT-010-19

PAGE 1001

REV. A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

CONSULTANT

SHEET TITLE
STRUCTURE 1 -
FOR REFERENCE ONLY

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY
CHECKED BY CS
DATE ISSUED 03/13/2020
SCALE
PROJ. NO. 1910900-1211
SHEET NO. US1.11

NOTES:
-THESE DRAWINGS ARE A PICTORIAL REPRESENTATION OF FABRIC AND STEEL ONLY. NONE OF THE REQUIRED ATTACHMENT OR CONNECTION DETAILS HAVE BEEN DEPICTED.
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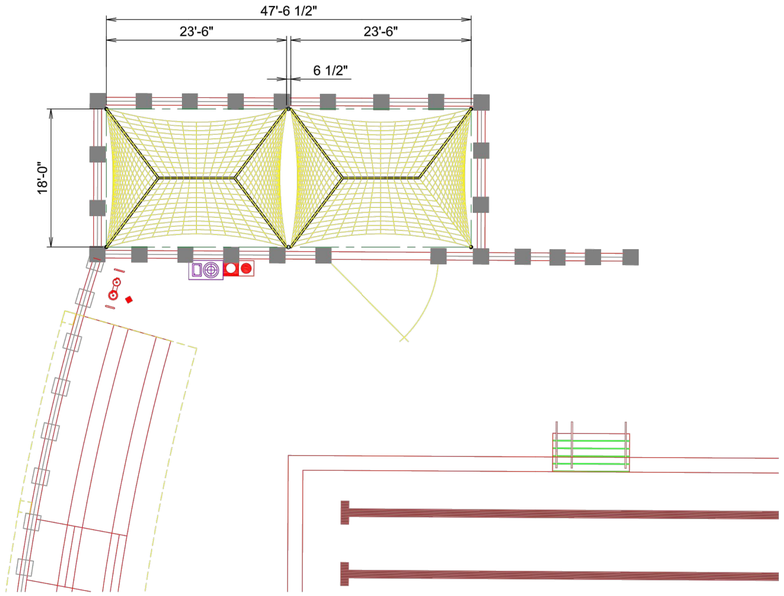
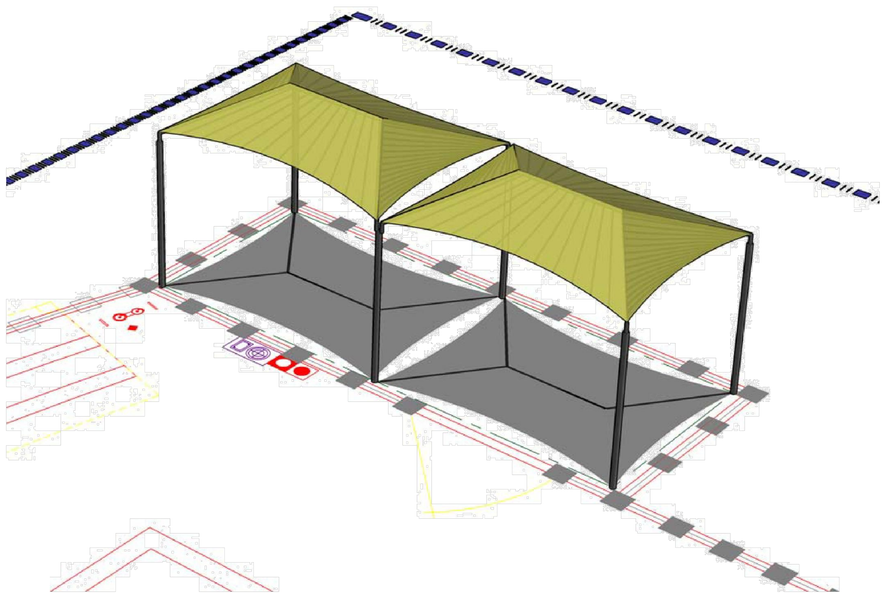
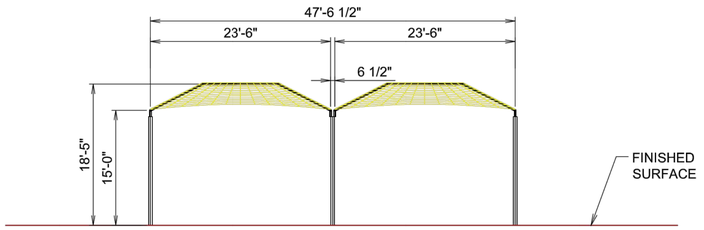


PLAN VIEW

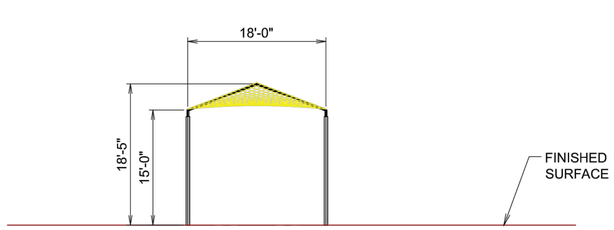
TRUE NORTH



PERSPECTIVE VIEW



SOUTH ELEVATION



EAST ELEVATION

CUSTOMER:
STOCKTON JOINT USD

PROJECT NAME:
CHAVEZ HIGH SCHOOL

LOCATION:
2929 WINDFLOWER LN.
STOCKTON, CA 95212

STRUCTURE TYPE:
JOINED HIPS

SIZE:
18' X 47'-6 1/2" X 15'e

USASHADE & Fabric Structures®
CORPORATE HEADQUARTERS
2590 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

	DESCRIPTION	DATE	DRW	CHK	ENG
REV.					

Drawn By :	AZR	10/10/19
Checked By :	AZR	10/10/19
Approved By :	AZR	10/10/19

DRAWING DESCRIPTION:
STRUCTURE 2

DWG. **CON-OCT-010-19**

PAGE **1002**

REV.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
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SHEET TITLE
STRUCTURE 2 -
FOR REFERENCE ONLY

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY: CS
DATE ISSUED: 03/13/2020	SCALE

PROJ. NO.
1910900-1211

SHEET NO.
US1.12

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_USA SHADE-Pool.dwg
PLOT DATE: 04-13-20 PLOTTED BY: station46

GENERAL NOTES:

APPLICABLE BUILDING CODE

All construction and workmanship shall conform to the 2016 California Building Code, California Code of Regulations – Title 24, Parts 1 & 2.

This pole and foundation standard has been designed for lateral loads on the completed structure as follows:

Wind Design Data:
- Vult = 110 MPH (Exposure C); Vasd = 85 MPH (Exposure C)
- Risk Category = II
- See Pole Foundation Schedule for maximum pole wind forces.

Seismic Design Data:
- Ie = 1.0
- Risk Category = II (Self Supporting Poles)
- S_s = 0.831
- S_1 = 0.317
- Site Class = D
- S_{ms} = 0.647
- S_{m1} = 0.374
- Seismic Design Category = D
- Basic Seismic-Force-Resisting System = Non-Building Structure, not similar to buildings
- Cs = 0.390 for 50C, 0.260 for 50D, 0.123 for 70C, 0.153 for 70D, 0.134 for 80C (STRENGTH LEVEL)
- R = 1.5
- Ω = 1.5
- Analysis Procedure = Equivalent Lateral Force Procedure
- See Pole Foundation Schedule for maximum pole seismic forces.

GENERAL CONSTRUCTION

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Registered Design Professional (RDP) in Responsible Charge.

Contractor must check all dimensions, clearances and job conditions before starting work. The RDP in Responsible Charge shall be notified immediately of any discrepancies or possible deficiencies.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor. Observation visits to the job site by the RDP in Responsible Charge do not include inspection of construction procedures. The Contractor is solely responsible for all construction methods and for safety conditions at the worksite. These visits by RDP in Responsible Charge shall not be construed as continuous and detailed inspections.

Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the School District, the RDP in Responsible Charge, and DSA.

All changes to the approved plans after a contract for construction has been awarded, affecting structural, access or life-safety portions of the project, shall be made by means of construction change documents (CCD) approved by DSA, as required by Section 4-338, Part 1, Title 24, CCR. All CCD shall be prepared and signed by the RDP in general Responsible Charge.

Substitutions shall be considered as a CCD and shall be approved by DSA prior to fabrication or use.

A Class 1 or Class 2 Project Inspector employed by the School District (Owner) and approved by DSA shall provide continuous inspection of the work, the duties of the Inspector are defined in Section 4-342, Part 1, Title 24, CCR.

All Tests And Inspections shall be performed by an Independent lab employed by the School District and approved by DSA.

Reference pole location on the Architectural, Structural, and/or Electrical drawings for actual pole placement and site location. Pole shall be located 5'-0" min. from adjacent structures below 50'-0" A.G.L., unless noted otherwise.

LIGHT POLE FOUNDATIONS

Reference geotechnical report prepared by Wallace Kuhl & Associates, Dated September 11, 2019; Project no. 12435.019P.

Allowable Vertical soil Capacity – 3,000 PSF (End Bearing).

Allowable Lateral Bearing capacity. 250 PSF/FT. Upper 12 inches of soil should be neglected.

A representative of Wallace Kuhl & Associates should be available at the time of the foundation installation to verify the soil design parameters and to provide assistance if any problems arise in foundation installation.

The Contractor must familiarize himself with the complete geotechnical report, and borings and contact the above firm to understand the soil conditions and the possibility of ground water pumping and excavation stabilization or bracing during the foundation installation and placement of concrete.

Soil formations that will require special design considerations or excavation procedures may exist. Pole foundations may need to be reanalyzed according to the soil conditions that exist.

If any discrepancies or inconsistencies arise, notify the RDP in Responsible Charge of such discrepancies.

All piers and concrete must bear on and against firm undisturbed soil as determined by the Geotechnical Engineer.

Place plywood collar around perimeter at the top of foundation excavation to prevent soil from entering.

All excavations must be free of loose soil, and debris prior to foundation installation and placement of concrete. Casing or drilling slurry may be required if caving occurs. Review and approval of the Geotechnical Engineer and DSA is required.

All excavations must be free of water or concrete shall be placed by the Tremie Method in accordance with ACI standard 336. Concrete placed by the Tremie Method shall have a minimum ultimate strength of 1,000 PSI greater than required under "Concrete Cast-in-Place" and a maximum slump of 8".

CONCRETE (CAST-IN-PLACE)

Concrete backfill without steel reinforcement shall attain a minimum ultimate compressive strength at 28 day test of 3,000 psi (2,500psi used for structural design). Batch plant inspection not required.

All concrete shall attain a minimum strength of 2,500 psi prior to steel pole erection.

Use Type II/V Portland cement or as directed by the Geotechnical Engineer.

Portland Cement ASTM C-150.

Aggregate ASTM C-33. 1" maximum aggregate size. 3/8" max agg. size acceptable where pump mixes are used at unreinforced concrete backfill.

Mix in conformance with ASTM C-94, ACI 318 SECTIONS 19.2 and 26.4.

Place concrete immediately after completion of excavation and inspection by the Geotechnical Engineer and the DSA Inspector. Under no circumstances shall piers be allowed to remain open for more than 12 hours without the approval of the Geotechnical Engineer. Excavations shall be covered and protected until filled with concrete.

Concrete shall be placed in one continuous operation (no construction joint) with special equipment to assure a maximum freefall of 5 ft and to prevent concrete from striking the sides of the excavation. Freefall of concrete is unacceptable through water or drilling slurry.

Vibrate concrete full depth, except for concrete with slump greater than 6", then vibrate only upper 10'-0". Concrete placed under water shall have a slump of 6"-8".

STEEL POLE

Steel pole sections conform to the California Code of Regulations T.24, Part 2, Chapter 22A.

All steel conforms to referenced ASTM specifications. (See Pole Data Table for each pole type).

All weldment conforms with AWS D1.1-10 specification for GMAW fillet utilizing E70S-X filler metal or SAW fillet utilizing F7XX-EXXX or F8XX-EXXX filler metal.
GMAW procedure conforms to AWS A5.18.
SAW procedure conforms to AWS A5.23.

Longitudinal seam welds for pole sections shall have 60% minimum penetration; Except longitudinal seam welds on the female section of telescopic field splices shall be full penetration groove welds for a length equal to the minimum splice length plus 6 inches. See drawing number MD1 for seam weld details.

Pole sections hot dipped galvanized to ASTM A123 latest standards.

All miscellaneous structural steel items conform to AISC 360-10.

Steel pole sections shall be assembled in the field by attaching two 1.5 ton "come alongs" to jacking ears, using full effort on each simultaneously, to ensure minimum overlaps as indicated on the "MS" sheet(s) and detail G/MD1.

PRECAST BASE

The precast concrete base conforms to California Code of Regulations, T.24, part 2, Chapter 19A and to Building Code Requirements for Reinforced Concrete, ACI 318-14.

See detail "A" on "MS" sheet(s) for material strengths and specifications.

TESTING AND INSPECTION

Testing and inspection in accordance with Title 24, Part 1 & Part 2.

EXCAVATIONS & FOUNDATIONS:
Inspection of cast-in-place deep foundations – 1705A.8 & Table 1705A.8

CONCRETE MATERIALS: 1903A.1
Portland cement – 1910A.1
Concrete aggregates – 1903A.5
Prestressing steel and anchorages – 1910A.3

CONCRETE QUALITY:
Proportions of concrete – Reference ACI 318 Section 26.4.3.1 Through 26.4.4.1.
Strength tests of concrete – 1905A.1.16 and ACI 318 Section 26.12 & 26.5.3.2.

CONCRETE INSPECTION: 1705A.3 & Table 1705A.3
Job site – Reference ACI 318 Section 26.5.1,26.5.2.1(a) & (b),26.6.1.2(d), 26.11.1.1(a).
Batch Plant Inspection Not Required – 1705A.3.3.2
Prestressed concrete – 1704A.2.5, 1705A.3.4

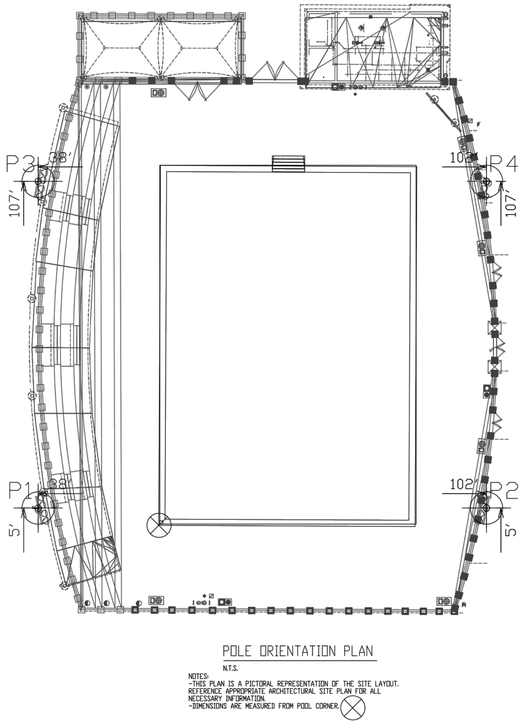
STEEL MATERIALS:
Structural steel – 2203A.1 & 2205A.1
Cold formed steel – 2210A.1
Identification – 2203A.1
High strength bolt identification – table 1705A.2.1 & DSA IR 17-9

STEEL QUALITY:
Tests of structural steel & cold formed steel – 2203A.1
Tests of high strength bolts, nuts, & washers – 2213A.1 & DSA IR 17-8
Non-destructive weld tests – 1705A.2.5 & DSA IR-17-2

STRUCTURAL STEEL INSPECTIONS: Table 1705A.2.1
Shop fabrication inspection – 1704A2.5
Welding – 1705A.2.5, DSA IR 17-3 and AWS D1.1.
High strength bolt installation – Table 1705A.2.1 & DSA IR 17-9
(Including Skidmore-Wilhelm bolt tension pre-installation verification testing)
(NOTE: ALL WELDING SHALL BE CONTINUOUSLY INSPECTED BY AN AWS CW CERTIFIED INSPECTOR APPROVED BY DSA)

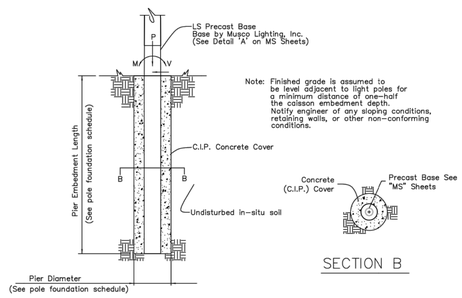
These plans are for construction approval. An application number and approval of these drawings by the Division of The State Architect of California must be secured to build from these plans.

INDEX OF SHEETS



POLE ORIENTATION PLAN
N.T.S.

NOTES:
-THIS PLAN IS A PICTORAL REPRESENTATION OF THE SITE LAYOUT. REFERENCE APPROPRIATE ARCHITECTURAL SITE PLAN FOR ALL NECESSARY INFORMATION.
-DIMENSIONS ARE MEASURED FROM POOL CORNER.



SECTION B

(A) FOUNDATION DETAIL
N.T.S.

POLE FOUNDATION SCHEDULE

POLE TYPE-# OF FIXTURES (MAX) (LSS=LIGHT STRUCTURE)	MARK (SEE POLE ORIENTATION PLAN)	WIND OR SEISMIC (SEISMIC FORCE INCLUDES OVERSTRENGTH FACTOR=1.5)	ASD LEVEL FORCES (MAX)			C.I.P. DEEP FOUNDATION		PRECAST BASE
			MOMENT (M) FT-LBS*	SHEAR (V) LBS	VERTICAL (P) LBS**	DIAMETER INCHES	EMBEDMENT FEET	EMBEDMENT LENGTH
LSS50C-3	P1, P3	SEISMIC	30,200	979	2,391	30"	12'-0"	12'-0"
		WIND	36,300	1,073	1,301			
LSS50D-5	P2, P4	SEISMIC	25,900	874	3,198	30"	14'-0"	14'-0"
		WIND	29,200	884	1,625			

*Moment (M) computed below grade at Shear (V) = 0.
**Vertical (P) load includes steel pole, light fixtures, and attachments. Vertical (P) load for wind is the dressed pole weight for erection purposes. Vertical (P) load for seismic also includes weight of precast base above groundline. Reference Detail "A" on MS Sheet(s) for precast base weight.

DSA-TITLE1_E

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_Musco Lighting-Pool.dwg
PLOT DATE: 04-08-20 PLOTTED BY: station46

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DIV. OF THE STATE ARCHITECT
APP: 02-118018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/19/2024

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

CONSULTANT

KEYMAP

Cesar Chavez HS Pool
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER – Kyndall Kenneth Kna – No. 45061 – Exp. 6-30-21 – STATE OF CALIFORNIA

CONSULTANT
KNA STRUCTURAL ENGINEERS
9951 Alameda Boulevard, Irvine, CA 92618
Tel: (949) 462-0200 Fax: (949) 462-0201
www.knastructural.com
KNA JOB NO.: 363.566

MUSCO Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

SCALE: SEE PLAN
DRAWING TITLE: NOTES, FOUNDATION DETAIL
REVISIONS
REFERENCE

PROJECT NO. 201787

DATE: 03/25/2020

DRAWN BY: K.Butterbaugh

DRAWING NO. MT1
1 OF 6

SHEET TITLE
NOTES,
FOUNDATION DETAIL

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

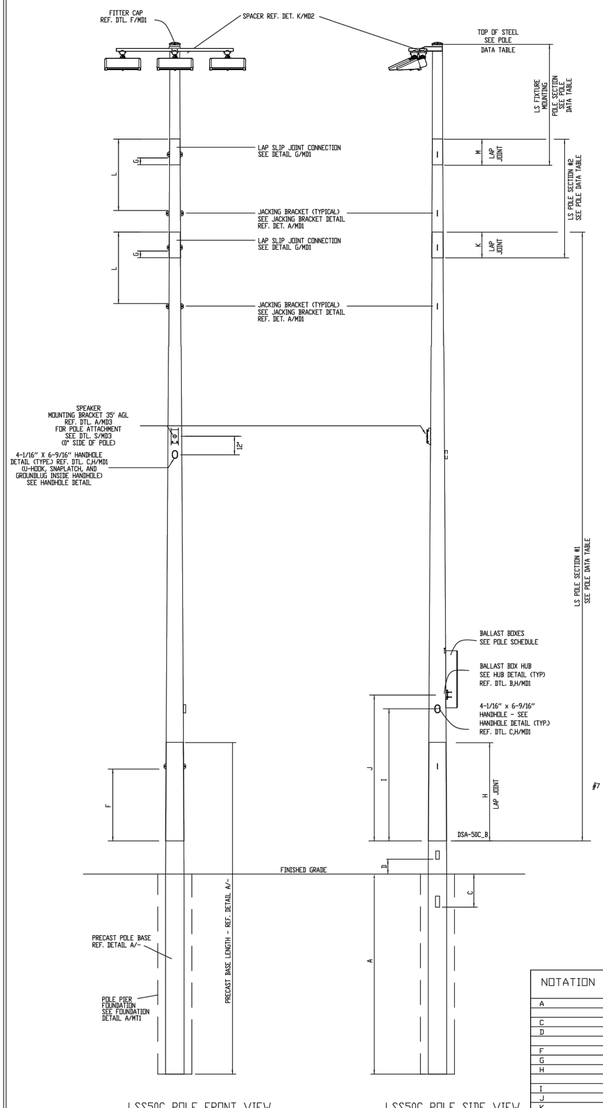
PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

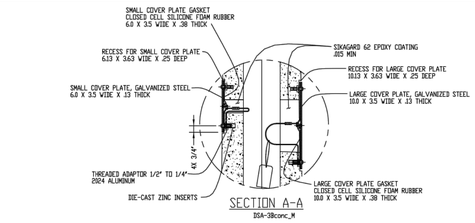
DRAWN BY	CHECKED BY
-	CS
DATE ISSUED: 03/13/2020	SCALE: AS NOTED
PROJ. NO.: 1910900-1211	
SHEET NO.: MT1	

NOTES, FOUNDATION DETAIL

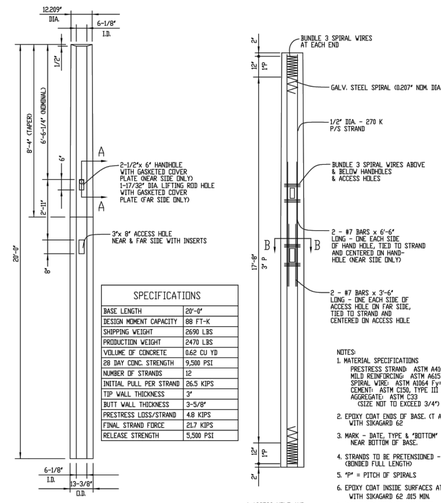


LSS50C POLE FRONT VIEW
N.T.S.

LSS50C POLE SIDE VIEW
N.T.S. DSA-50CBASE_A

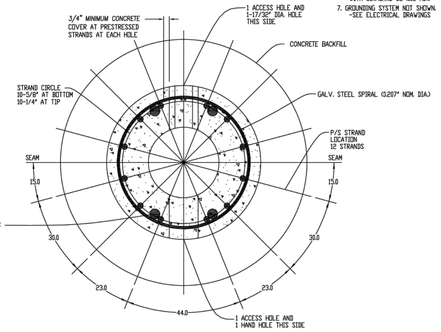


SECTION A-A
DSA-38conc_M



SPECIFICATIONS	
BASE LENGTH	29'-4"
DESIGN MOMENT CAPACITY	88 FT-K
SHIPPING WEIGHT	9690 LBS
PRODUCTION WEIGHT	2470 LBS
VOLUME OF CONCRETE	0.62 CU YD
28 DAY CONC. STRENGTH	5,500 PSI
NUMBER OF STRANDS	12
INITIAL PULL PER STRAND	26.5 KIPS
TIP WALL THICKNESS	3"
BUTT WALL THICKNESS	3-5/8"
PRESTRESS LOSS/STRAND	4.8 KIPS
FINAL STRAND FORCE	21.7 KIPS
RELEASE STRENGTH	5,500 PSI

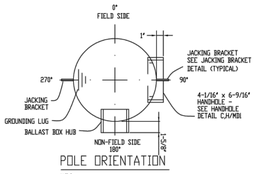
NOTES:
1. MATERIAL SPECIFICATIONS
   PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
   MILD REINFORCING: ASTM A615 GR 60
   SPIRAL WIRE: ASTM A1064 Fy=70 KSI
   CEMENT: ASTM C150, TYPE III
   AGGREGATE: ASTM C33
   SIZE NOT TO EXCEED 3/4"
2. EPOXY COAT ENDS OF BASE. (T AND B)
   WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
   NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
   (BONDED FULL LENGTH)
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
   WITH SIKAGARD 62 .015 MIN.
7. GROUNDING SYSTEM NOT SHOWN.
   -SEE ELECTRICAL DRAWINGS



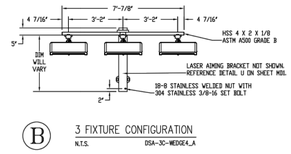
PLAN SECTION B-B

A TYPE 3B PRECAST BASE DETAIL
N.T.S. DSA-38conc_M

NOTATION	DIMENSION LSS50C
A	12'-0"
C	2'-0" NOM.
D	1'-0" NOM.
F	4'-4" NOM.
G	1'-6"
H	5'-11 3/8" NOM. 5'-3 3/4" MIN.
I	7'-7 1/2" NOM.
J	8'-9 1/2" NOM.
K	2'-8 5/8" NOM. 1'-7 1/2" MIN.
L	4'-7" NOM.
M	2'-0" NOM. 1'-5 1/2" MIN.



POLE ORIENTATION
N.T.S.



B 3 FIXTURE CONFIGURATION
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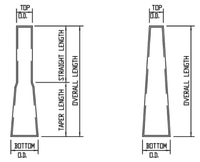

FIXTURE MOUNTING
POLE SECTION

TOP/MIDDLE/BOTTOM
POLE SECTION

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 50.0 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 10 LBS PER FIXTURE SERVICED

POLE SCHEDULE

SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA[1]	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	P1,P3	SEE POLE ORIENTATION PLAN	LSS50C	3 - SEE DETAIL B/M01	7.52	SEE DETAIL P/M01

DSA-POLESCHE_C

POLE DATA TABLE

POLE TYPE	PIECE MARK	MAX NUMBER OF X-Arms	POLE SECTION	TOP O.D. (INCHES)	BTM. O.D. (INCHES)	OVERALL LENGTH	STRAIGHT LENGTH	TAPER LENGTH	THICKNESS (INCHES)	TOP OF STEEL NOMINAL	ASTM REFERENCE
LSS50C	LS-2013	2	FIXTURE MOUNTING	7.000"	7.549"	5'-3"	3'-3"	2'-0"	.125	53-5 1/2"	A513 (Fy=38ksi)
	MP-2TTDSA-2		#2	6.980"	8.520"	11'-0"	------	11'-0"	.179	------	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-4BT-D		#1	7.781"	13.400"	40'-1 5/8"	------	40'-1 5/8"	.179	------	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-3BDSA		PRECAST BASE	FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/-							

DSA-50CDT_J

DSA-SK_A

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KEYMAP

SHEET TITLE
50C POLE DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

DRAWN BY: -
CHECKED BY: CS
DATE ISSUED: 03/13/2020
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: MS1

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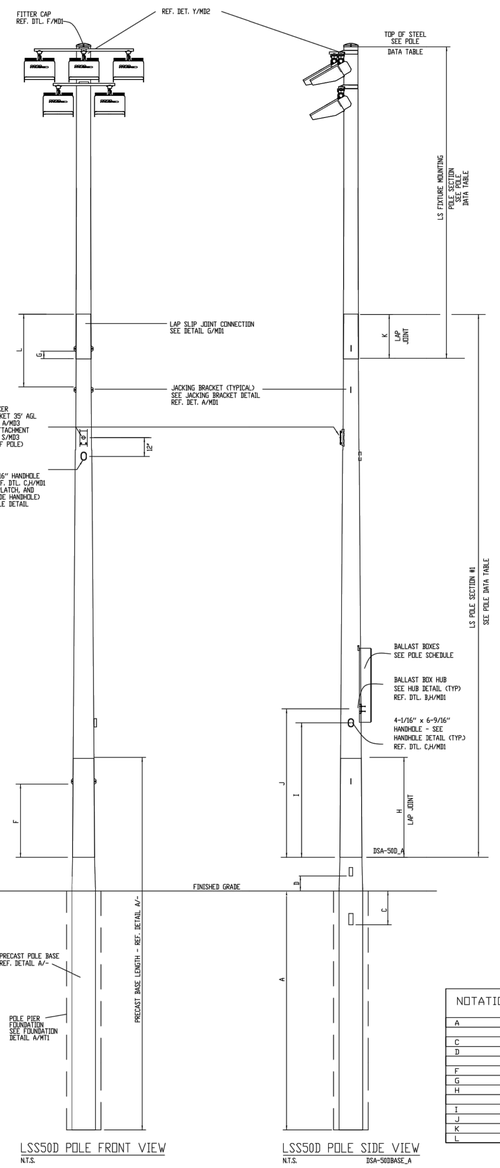
www.knastructural.com
KNA JOB NO.: 363.366

REGISTERED PROFESSIONAL ENGINEER
No. 4505
Exp. 6-30-21
STRUCTURAL
STATE OF CALIFORNIA

CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskalooosa, Iowa 52577
800/825-6020

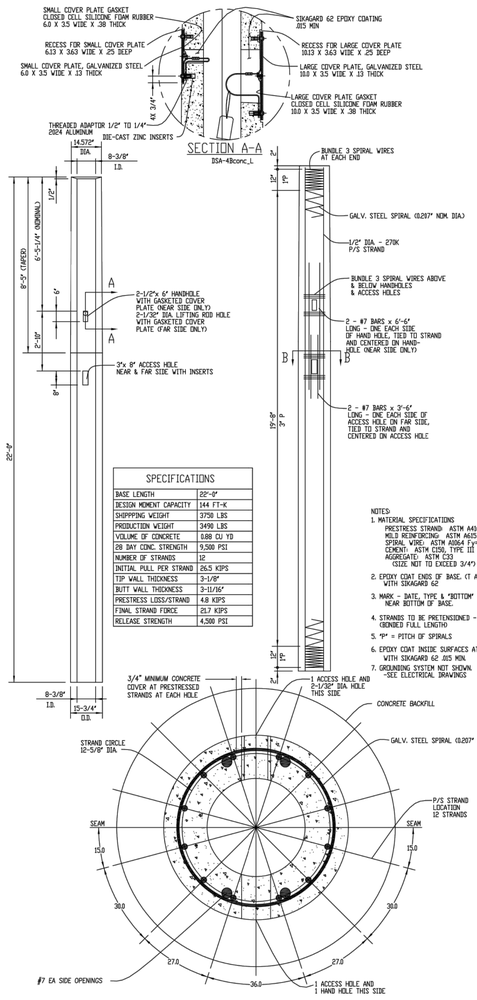
DRAWING TITLE: 50C POLE DETAILS
SHEET: SEE PLAN
REVISIONS
REFERENCE

PROJECT NO.: 201787
DATE: 03/25/2020
DRAWN BY: K.Butterbaugh
DRAWING NO.: MS1
2 OF 6



LSS50D POLE FRONT VIEW
N.T.S.

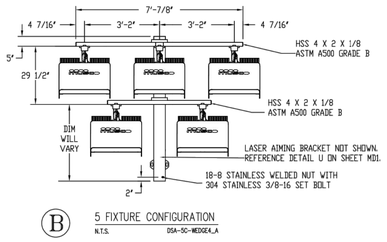
LSS50D POLE SIDE VIEW
N.T.S. DSA-50DBASE_A



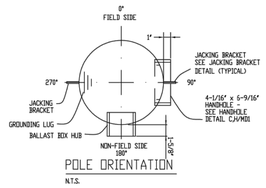
PLAN SECTION B-B

SPECIFICATIONS	
BASE LENGTH	22'-0"
DESIGN MOMENT CAPACITY	144 FT-K
SHIPPING WEIGHT	3750 LBS
PRODUCTION WEIGHT	3490 LBS
VOLUME OF CONCRETE	0.88 CU YD
28 DAY CONC. STRENGTH	9,500 PSI
NUMBER OF STRANDS	12
INITIAL PULL PER STRAND	26.5 KIPS
TIP WALL THICKNESS	3-1/8"
BUTT WALL THICKNESS	3-11/16"
PRESTRESS LOSS/STRAND	4.8 KIPS
FINAL STRAND FORCE	21.7 KIPS
RELEASE STRENGTH	4,500 PSI

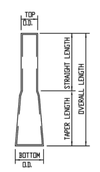
NOTES:
1. MATERIAL SPECIFICATIONS
   PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
   MILD REINFORCING: ASTM A615 GR 60
   SPIRAL WIRE: ASTM A1064 Fy=70 KSI
   CEMENT: ASTM C150, TYPE III
   AGGREGATE: ASTM C33
   (SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE, (T AND B)
   WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
   NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
   DEBONDED FULL LENGTH
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
   WITH SIKAGARD 62 .025 MIN.
7. GROUNDING SYSTEM NOT SHOWN.
   -SEE ELECTRICAL DRAWINGS



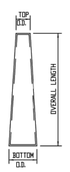
B 5 FIXTURE CONFIGURATION
N.T.S. DSA-SC-WEDGE4_A



POLE ORIENTATION
N.T.S.



FIXTURE MOUNTING
POLE SECTION



TOP/MIDDLE/BOTTOM
POLE SECTION

NOTATION	DIMENSION LSS50D
A	14'-0"
C	2'-0" NOM.
D	1'-0" NOM.
F	4'-4" NOM.
G	6"
H	5'-10 1/4" NOM. 5'-3 3/4" MIN.
I	7'-7 1/2" NOM.
J	8'-9 1/2" NOM.
K	3'-3 1/4" NOM. 2'-4" MIN.
L	4'-7" NOM.

A TYPE 4B PRECAST BASE DETAIL
N.T.S. DSA-48conc_L

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 51.0 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT IS LBS PER FIXTURE SERVICED

POLE SCHEDULE

SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA[1]	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	P2.P4	SEE POLE ORIENTATION PLAN	LSS50D	5 - SEE DETAIL B/M02	13.04	SEE DETAIL P.D/M01

DSA-POLESCHE_C

POLE DATA TABLE

POLE TYPE	PIECE MARK	MAX NUMBER OF X-ARMS	POLE SECTION	TOP O.D. (INCHES)	BTM. O.D. (INCHES)	OVERALL LENGTH	STRAIGHT LENGTH	TAPER LENGTH	THICKNESS (INCHES)	TOP OF STEEL NOMINAL	ASTM REFERENCE
LSS50D	MP-18TT-1	2	FIXTURE MOUNTING	9.462"	12.000"	18'-1 1/2"	------	18'-1 1/2"	.179	49'-7 1/2"	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-58TT-9		#1	11.183"	15.750"	32'-7 1/2"	------	32'-7 1/2"	.179	------	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-48DSA		PRECAST BASE	FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/-							

DSA-50DDT_A

DSA-50_A

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KEYMAP

Cesar Chavez HS Pool
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER ★ KYNNETH ★ STATE OF CALIFORNIA
No. 4506 Exp. 6-30-21

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DRAWING TITLE: 50D POLE DETAILS
SCALE: SEE PLAN
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REFERENCE

PROJECT NO. 201787

DATE: 03/25/2020

DRAWN BY: K.Butterbaugh

DRAWING NO. MS2
3 OF 6

SHEET TITLE
50D POLE DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
DSA BACK CHECK SUBMITTAL	3/13/2020

NO.	REVISIONS	DATE

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CHECKED BY: CS
DATE ISSUED: 03/13/2020
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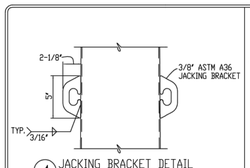
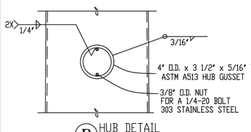
PROJ. NO.: 1910900-1211
SHEET NO.: MS2



A JACKING BRACKET DETAIL
N.T.S. DSA-3RDSHEET_T



B HUB DETAIL
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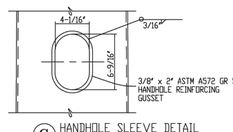
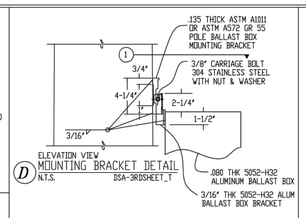


C HANDHOLE SLEEVE DETAIL
N.T.S. DSA-3RDSHEET_T



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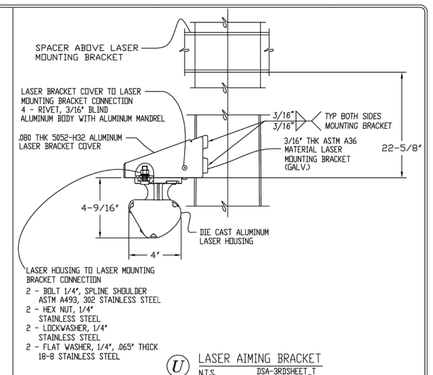
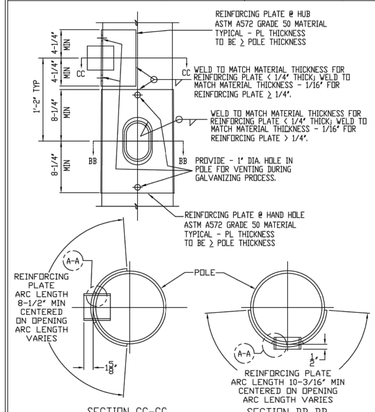
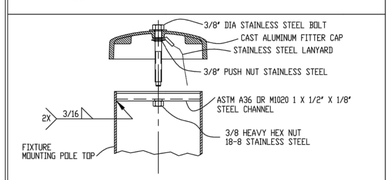


U LASER AIMING BRACKET
N.T.S. DSA-3RDSHEET_T



H HANDHOLE/HUB REINFORCING GUSSET
N.T.S.



F FITTER CAP DETAIL
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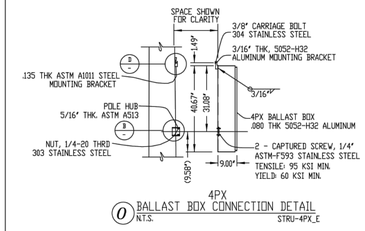
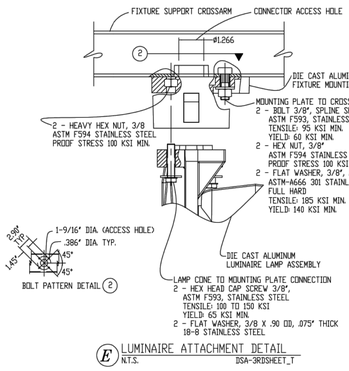
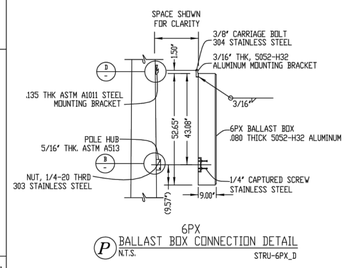


4PX
O BALLAST BOX CONNECTION DETAIL
N.T.S. STRU-4PX_E



E LUMINAIRE ATTACHMENT DETAIL
N.T.S. DSA-3RDSHEET_T



6PX
P BALLAST BOX CONNECTION DETAIL
N.T.S. STRU-6PX_D

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CONSULTANT

KEYMAP

Cesar Chavez HS Pool
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER * KYNDRA * No. 85821 Exp. 6-30-21 * STATE OF CALIFORNIA *

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KNA STRUCTURAL ENGINEERS
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musco Lighting
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P.O. Box 808
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DRAWING NO. 4 OF 6 MD1

SHEET TITLE
ATTACHMENT DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

SUBMITTAL	DATE
DD SUBMITTAL	10/25/19
100% SUBMITTAL	12/20/19
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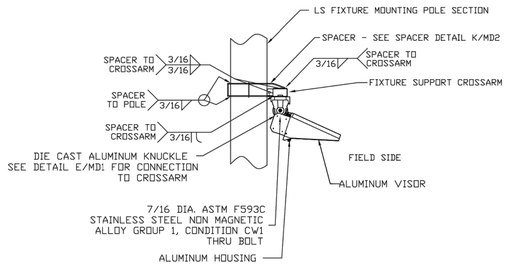
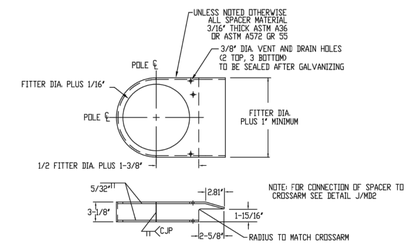
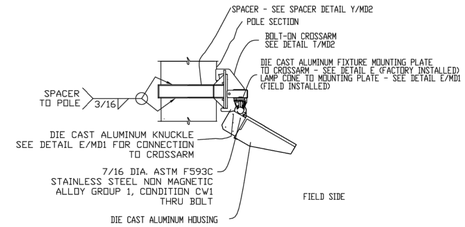


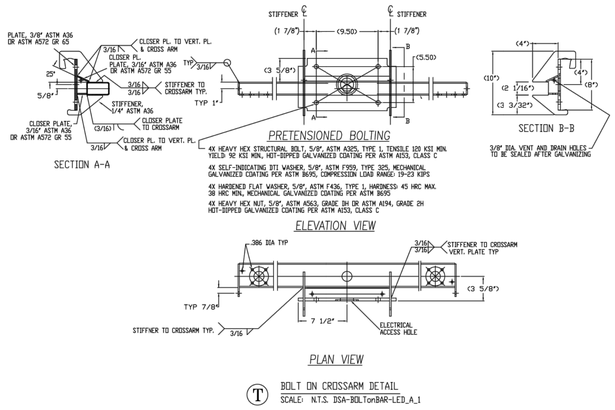
J LIGHT FIXTURE (TYPICAL)
N.T.S. DSA-WEDGE4-VELDON_A



K SPACER DETAIL
N.T.S. DSA-SPACERWELDON_K



Z LIGHT FIXTURE (TYPICAL)
SCALE: N.T.S.
DSA-1500-BOLTON_A



T BOLT ON CROSSARM DETAIL
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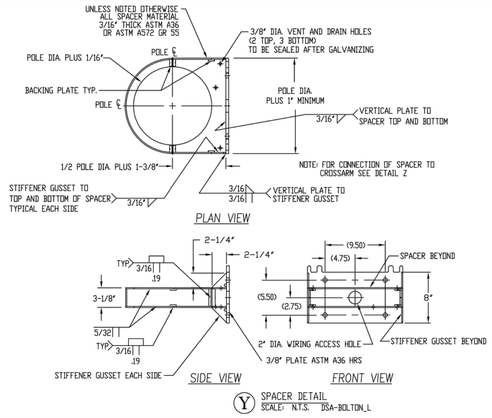

Y SPACER DETAIL
SCALE: N.T.S. DSA-BOLTON_L

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Oskaloosa, Iowa 52577
800/825-6020

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SHEET TITLE
ATTACHMENT DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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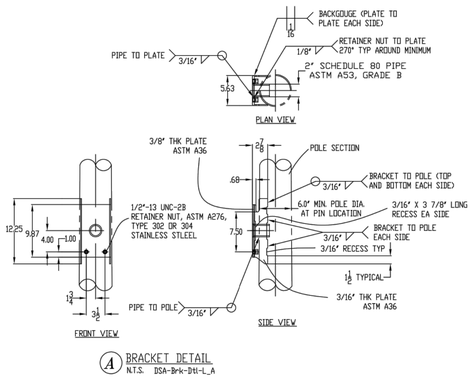

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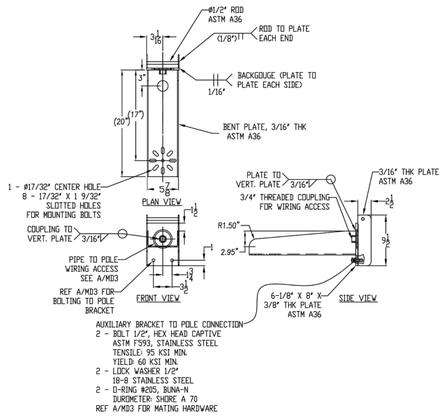

S 1P INVERTED LONG-NOSE TRUNNION MOUNT
N.T.S. DSA-1P EXT-INV TRUNNION_A

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DRAWING NO.: MD3
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SHEET TITLE
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CHAVEZ HIGH SCHOOL
STOCKTON USD
SWIMMING POOL

PROJECT ADDRESS
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