

SOLANO CCD FAIRFIELD POOL DECK REPLACEMENT

4000 SUISUN VALLEY RD, FAIRFIELD, CA 94534

SOLANO COMMUNITY COLLEGE DISTRICT

CONSTRUCTION DOCUMENT

DSA FILE NUMBER 48-C1
DSA APP. NUMBER 02-120573

ABBREVIATIONS

& A.B. ABV. A.C. ACT ADJ. A.F.F. ALUM. A.P. APPROX. ARCH.	AND AT ANCHOR BOLT ABOVE ASPHALTIC CONCRETE ACUSTIC TILE ADJUSTABLE ABOVE FINISHED FLOOR ALUMINUM ACCESS PANEL APPROXIMATELY ARCHITECT	LAB. LABO. LAV. LKR. LIT. MAX. M.B. MECH. MFR. MIN. MIN. MIR. MISC. M.S. MACHINE SCREW MTD. MTL. MUL.	LABORATORY LAVATORY LOOKER LIGHT MAXIMUM MACHINE BOLT MECHANICAL MANUFACTURER MINOR MIRROR MISCELLANEOUS MASONRY OPENING MACHINE SCREW MOUNTED MULLION
BD. BLDG. BLK.G. BM. B.M. BOT. BTWN. B.W.	BOARD BUILDING BLOCKING BEAM BENCH MARK BOTTOM BETWEEN BOTH WAYS	(N) NEW N.O. or # NOM. N.T.S. OBS. O.C. OCC. O.D. O.F.S. O.F.C.I. OPNG. OPP.	NEW NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OBSOLETE ON CENTER OCCUPANT OVERFLOW DRAIN and/or OUTSIDE DIAMETER OUTSIDE FACE OF STUD OWNER FURNISHED and CONTRACTOR INSTALLED OPPOSITE HAND OPENING OPPOSITE
CAB. C.B. C.C. or O.C. CEM. CER. TILE C.G. C.I. C.J. CLG. CLK.W.G. CLR. CMU CNTR. C.O. COL. CONC. CONSTR. CONT. CONTR. C.P. PLAS. CTSK. C.W.	CABINET CATCH BASIN CENTER TO CENTER CEMENT CERAMIC TILE CORNER GUARD CAST IRON CONTROL JOINT CEILING CALKING CLEAR CONCRETE MASONRY UNIT COUNTER CLEANOUT COLUM. CONCRETE CONSTRUCTION CONTINUOUS CONTRACTOR CONCRETE PIPE CENTER COUNTER SUNK COLD WATER	P.A.F. PL. P.L. P.LAM PLAS. PLYWD. PAIR PTD. PTN. Q.T.	POWDER ACTUATED FASTENER PLATE PROPERTY LINE PLASTIC LAMINATE PLASTER PLYWOOD PAIR PAINTED PARTITION QUARRY TILE
D.A. DBL. D.F. D.FIR. DTL. DIA. or Ø DIM. DISP. DN. DO DOOR DS. DWG.	DISABLED ACCESS DOUBLE DRINKING FOUNTAIN DOUGLAS FIR DETAIL DIAMETER DIMENSION DISPOSAL DOWN DITTO DOOR DOWNSPOUT DRAWING	R. or RAD. R.C.P. R.D. R.E. REF. REIN. REINFORCING R.H.M.S. R.H.W.S. RM. R.O. R.W.D. R.W.L.	RADIUS REINFORCED CONCRETE PIPE ROOF DRAIN RM ELEVATION REFERENCE REINFORCING ROUND HEAD METAL SCREW ROUND HEAD WOOD SCREW ROOM ROUGH OPENING REINWOOD RAIN WATER LEADER
(E) EAST EA. ELEC. ELEV. ENCL. EQU. E.W. E.W.C. EXP. EXT.	EXISTING EAST EACH EXPANSION JOINT ELECTRIC or ELECTRICAL ELEVATOR ENCLOSURE and/or ENCLOSURE EQUILIBRIUM EQUIPMENT EACH WAY ELECTRIC WATER COOLER EXPANSION EXPOSED EXTERIOR	S S.D. S.C. S.C.D. SCHED. S.F. SHEATH. SHEET SIM S.M. S.M.D. S.M.S. S.O.V. S.P.D. SPEC. SQ. or Ø S.S. S.S.D. STAG. STD. STL. STOR. STRUCT. S.T.S.M.S. SUSP.	SEE ARCHITECTURAL DRAWINGS SOLID CORE SEE CIVIL DRAWINGS SCHEDULE SEE ELECTRICAL DRAWINGS SQUARE FEET SHEATHING SHEET SIMILAR SEE LANDSCAPE DRAWINGS SHEET METAL SEE MECHANICAL DRAWINGS SHEET METAL SCREW SHUT OFF VALVE SEE PLUMBING DRAWINGS SPECIFICATIONS SQUARE STAINLESS STEEL SEE STRUCTURAL DRAWINGS STAGGERED STANDARD STEEL STORAGE STRUCTURAL SELF TAPPING SHEET METAL SCREW SUSPENDED
F.A. F.D. FDN. F.E. F.E.C. F.H. F.H.C. F.H.S.M.S. F.H.W.S. FIN. FL. or FLR. F.O.C. F.O.F. F.O.M. F.O.S. F.S. FT. FTG. FURR.	FIRE ALARM FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE HOSE CABINET FLAT HEAD SHEET METAL SCREW FLAT HEAD WOOD SCREW FINISH FLOOR FACE OF CONCRETE FACE OF FINISH FACE OF MASONRY FACE OF STUD FINISH SLAB FOOT OR FEET FOOTING FURRING	T & G. TEL. TERR. THRES. T.J. T.O.B. T.O.C. T.O.S. T.O.W. TYP. U.O.N. VERT. V.C.P. V.C.T. V.G. V.I. V.T.R. V.W.C.	TONGUE & GROOVE TELEPHONE TERRAZZO THRESHOLD TOOLED JOINT TOP OF BEAM TOP OF CURB or CONCRETE TOP OF STEEL or SLAB TOP OF WALL TYPICAL UNLESS OTHERWISE NOTED VERTICAL VITRIFIED CLAY PIPE VINYL COMPOSITION TILE VERTICAL GRAIN VERIFY IN FIELD VENT THROUGH ROOF V.W.C. WEST WITH WOOD CLOSET WOOD WATER HEATER WITHOUT WHERE OCCURS WEATHERPROOF / WEATHERPROOF WORKING POINT WATER RESISTANT WEIGHT
GA. GALV. G.B. GL. GLU-LAM GND. GR. GYP.	GAUGE GALVANIZED GRAB BAR GALVANIZED IRON GLASS GLUE-LAMINATED GROUND GRADE GYPSUM	U.O.N. VERT. V.C.P. V.C.T. V.G. V.I. V.T.R. V.W.C.	UNLESS OTHERWISE NOTED VERTICAL VITRIFIED CLAY PIPE VINYL COMPOSITION TILE VERTICAL GRAIN VERIFY IN FIELD VENT THROUGH ROOF V.W.C.
H.B. H.C. HDWD. HDWR. H.M. HORIZ. HR. HICHT.	HOSE BIBB HOLLOW CORE HARDWOOD HARDWARE HOLLOW METAL HORIZONTAL HOUR	W W.I. W.C. WD. W.H. WID. W.O. W.R. W.P.T. WT.	WEST WITH WATER CLOSET WOOD WATER HEATER WITHOUT WHERE OCCURS WEATHERPROOF / WEATHERPROOF WORKING POINT WATER RESISTANT WEIGHT
I.D. INSUL. INT. INV. JAN. JT. K.D.	INSIDE DIAMETER INSULATION INTERIOR INVERT JANITOR JOINT KILN DRIED	W W.I. W.C. WD. W.H. WID. W.O. W.R. W.P.T. WT.	WEST WITH WATER CLOSET WOOD WATER HEATER WITHOUT WHERE OCCURS WEATHERPROOF / WEATHERPROOF WORKING POINT WATER RESISTANT WEIGHT

BOARD OF TRUSTEES

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CONSULTANTS

STRUCTURAL

RESPONSE STRUCTURAL ENGINEERS
541FAIR OAKS BLVD, SUITE G2
CARMICHAEL, CA 95608
916.680.9822

GEOTECH

NINYO & MOORE
1401 HALYARD DRIVE, SUITE 110
WEST SACRAMENTO, CALIFORNIA 95691
916.375.9858

ELECTRICAL

EDGE ELECTRICAL CONSULTING
1801 7TH STREET, SUITE 150
SACRAMENTO, CA 95811
(916) 256-2460

CIVIL

CARROLL ENGINEERING
1101 15. WINCHESTER BLVD, SUITE H-184
SAN JOSE, CA 95128
408.261.9800

AQUATIC DESIGN

AQUATIC DESIGN GROUP
2226 FARADAY AVENUE
CARLSBAD, CA 92008
760.444.8315

MECHANICAL

PETERS ENGINEERING
1750 COLLEGE TOWN DR.
SUITE 101 SACRAMENTO CA 95826
(916) 712-0492

APPLICABLE CODES

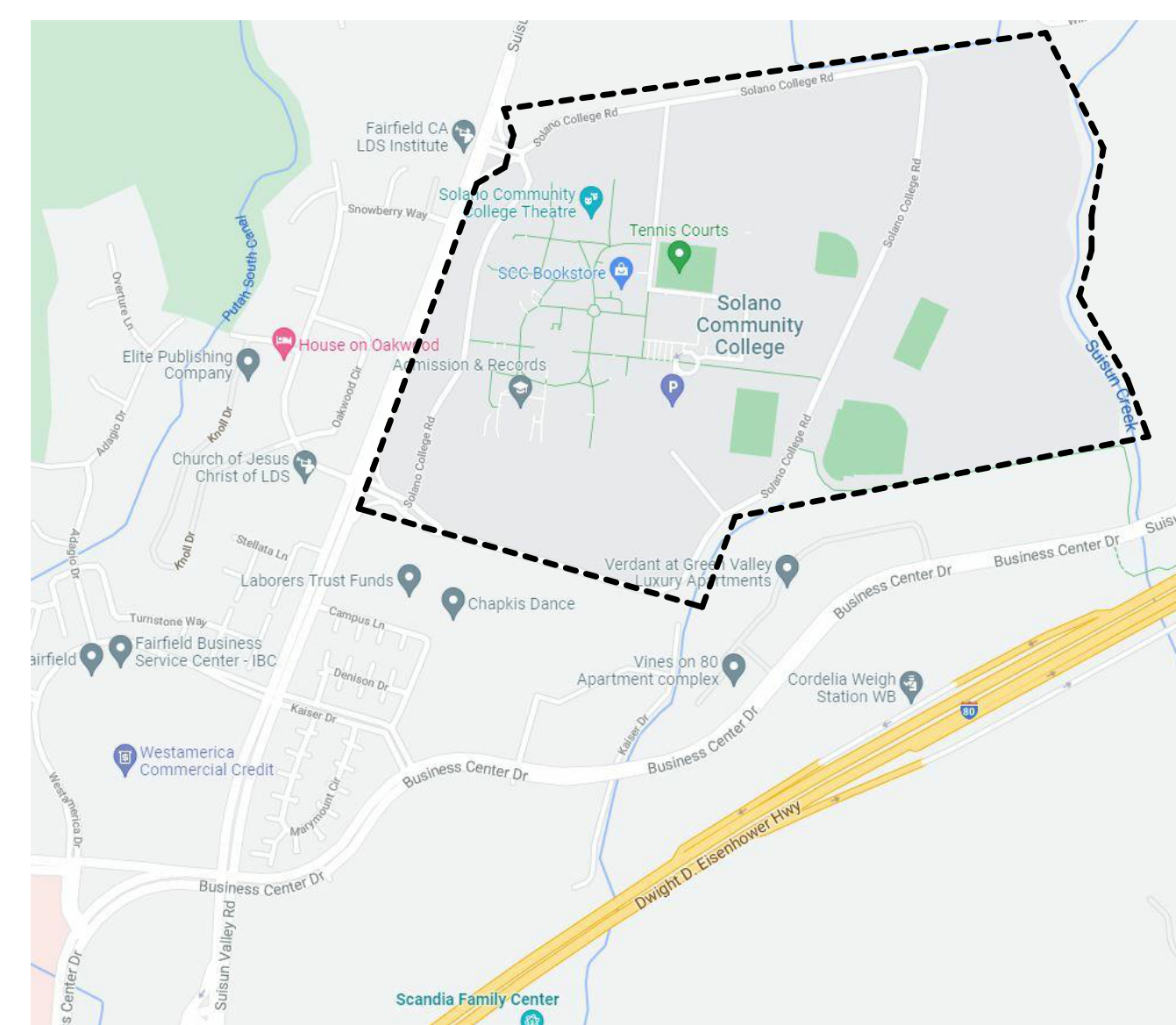
- 2022 BUILDING STANDARDS ADMINISTRATION CODE (PART 1, TITLE 24, CCR)
- 2019 CALIFORNIA BUILDING CODE (PART 2, VOLUMES 1 AND 2, TITLE 24, CCR)
- 2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
- 2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
- 2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
- 2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
- 2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
- 2019 CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24, CCR)
- 2019 CALGREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
- TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS (AS REFERENCED IN 2019 CBC - CHAPTER 35 & CFC):

ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)	2010 EDITION
ICC 300 BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS	2017 EDITION

LOCATION MAP



SCOPE OF WORK

REPLACEMENT OF (E) POOL DECK, ALTERATION OF BUILDING 1700 A & B FOR RESTROOM UPGRADE AND ALTERATION OF BUILDING 2000 FOR NEW SHOWERS.

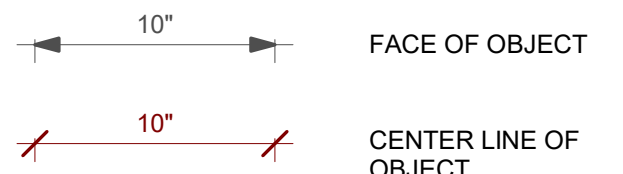
ADD ALTERNATE

- RACING PLATFORMS, SEE AQUATIC DRAWINGS
- COMPETITIVE STARTING BLOCKS

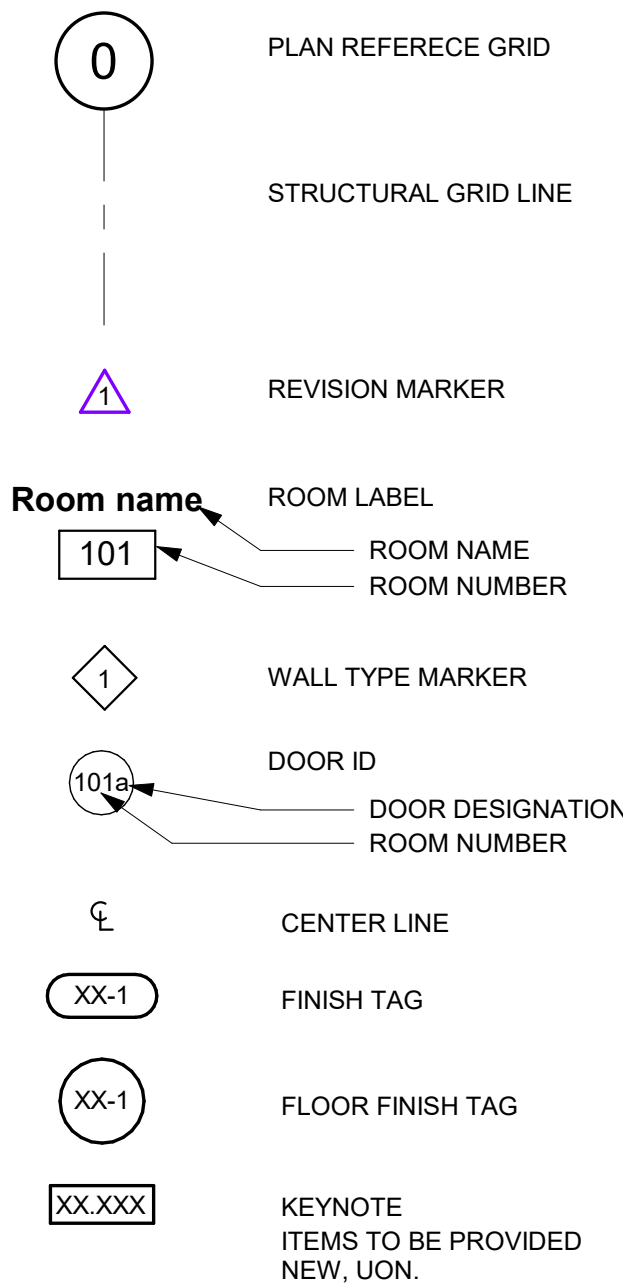
SYMBOL LEGEND

REFER TO ARCHITECTURAL FLOOR PLAN SHEETS AND CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS AND REFERENCE DESIGNATIONS

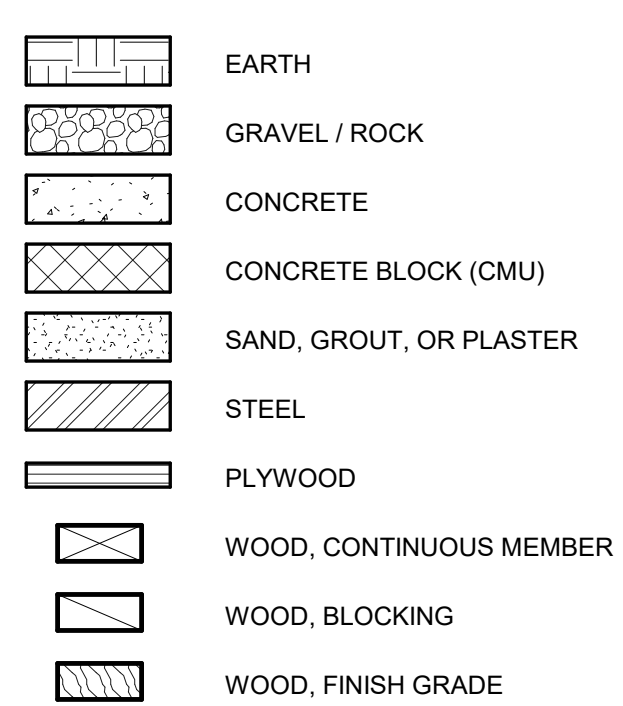
DIMENSION REFERENCE



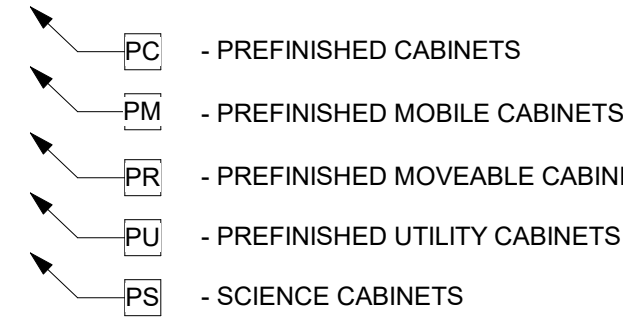
TAGS AND MARKERS



MATERIALS REFERENCE

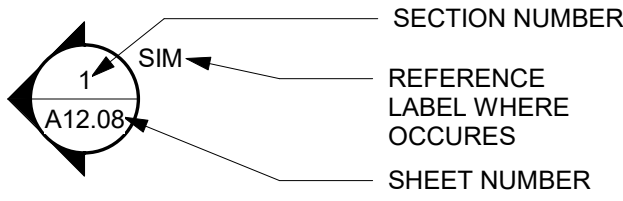


CABINET TYPES

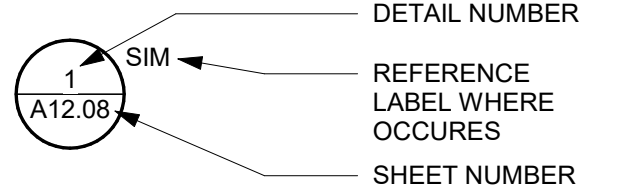


NOTE: REFER TO SPECIFICATIONS FOR SPECIFIC CABINET TYPE REQUIREMENTS.

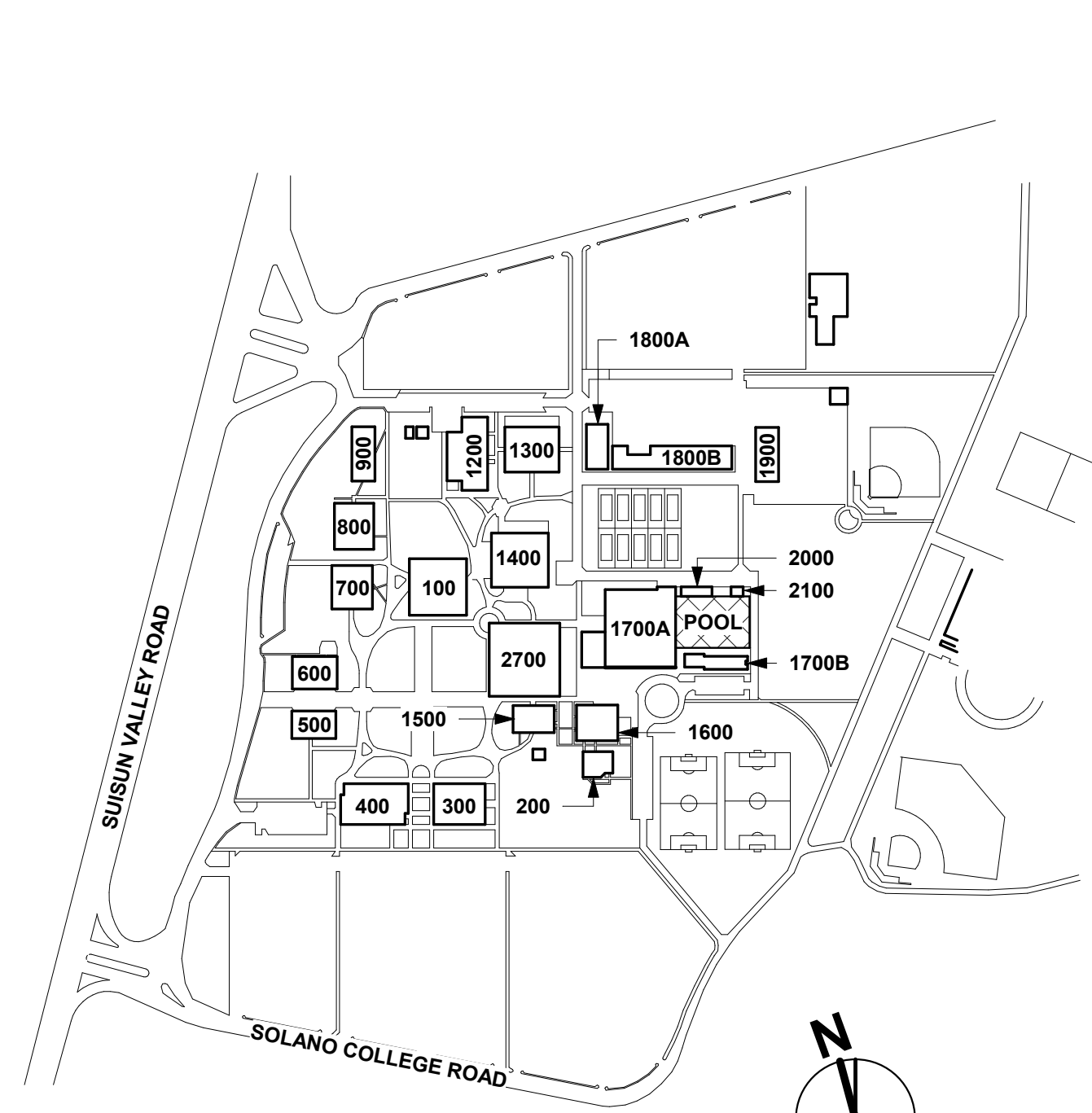
SECTION REFERENCE



DETAIL REFERENCE



BUILDING KEY



LEGEND

AREA OF SCOPE

DRAWING INDEX

T1	TITLE SHEET
C1.1	DEMOLITION PLAN
C2.1	GRADING AND DRAINAGE PLAN
C3.1	NOTES, LEGEND, & DETAILS
ARCHITECTURAL	
A0.01	NEW SITE PLAN AND FIRE DEPARTMENT ACCESS PLAN
A0.02	TITLE 24 & DSA 403-A
A1.01	DEMOLITION SITE PLAN
A1.03	NEW ENLARGED SITE PLAN
A1.04	EGRESS PLAN
A1.05	SITE DETAILS
A1.06	SITE DETAILS
A1.07	SITE DETAILS
A1.08	SITE DETAILS
A3.10	ENLARGED RESTROOM PLANS & ELEVATIONS - BLDG 1700A
A3.11	ENLARGED RESTROOM PLANS & ELEVATIONS - BLDG 1700B
A3.12	ENLARGED OUTDOOR SHOWER PLANS & DETAILS
STRUCTURAL	
S1.00	TYPICAL STRUCTURAL NOTES
S2.00	PLAN, SECTIONS, & DETAILS
PLUMBING	
P0.01	SYMBOLS AND NOTES
P1.01	ENLARGED SITE PLAN - DEMOLITION
P2.01	ENLARGED SITE PLAN - PLUMBING
P2.02	ENLARGED SHOWER AREA - PLUMBING
ELECTRICAL	
E0.01	ABBREVIATIONS, SYMBOLS, ONE-LINE DIAGRAM, PANEL SCHEDULES & SHEET INDEX
E0.02	TITLE 24 COMPLIANCE
E0.03	ELECTRICAL SPECIFICATIONS
E2.01	ENLARGED SITE PLAN - ELECTRICAL
AQUATIC DESIGN	
DP.1	EXISTING SWIMMING POOL DEMOLITION PLAN
DP.2	SWIMMING POOL DECK PLAN
DP.3	DETAILS
DP.4	DETAILS
DP.5	DETAILS

SHEET COUNT: 31

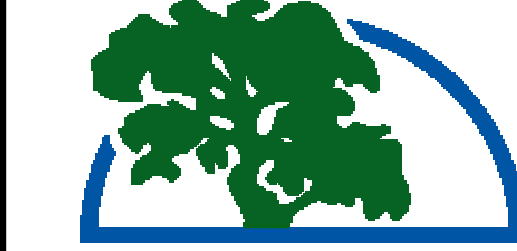
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120573 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 02/02/2023

aedis
architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121

PROJECT

SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT



SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 48-C1
APPL # 02-120573

REVISIONS

No.	Description	Date
△		
MILESTONES		
SD	1.1.2022	
DD	2.2.2022	
50% CD	3.3.2022	
90% CD	4.4.2022	
DSA SUB	10.6.2022	
BACK CHECK SUB	12.15.2022	

SHEET

TITLE SHEET

* These drawings, and/or specifications, and/or calculations for the items listed above have 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:

- design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me.
- 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 Sections 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))

JOE VELA 12-15-22
PRINCIPAL IN CHARGE DATE -
C-27833 11-30-23
CALIFORNIA LICENSE NUMBER EXPIRATION DATE

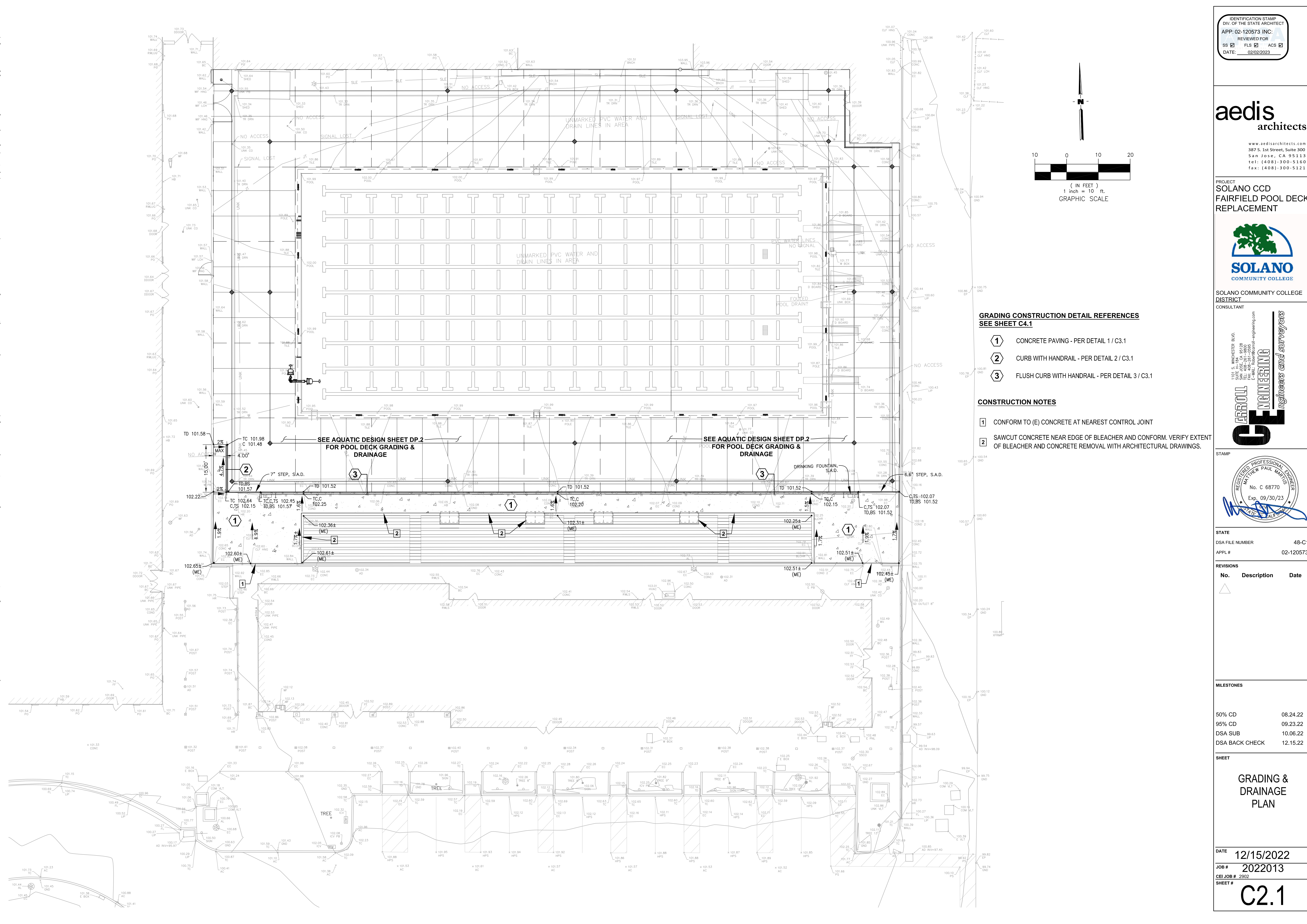
DATE 12.15.2022

JOB # 2022013

SHEET #

T1

MA 2902 - Solano CC Pool Deck DWG 2902_C2.1.dwg 12-06-22 01:20:52 PM MilanVC Construction Contractor agrees that in accordance with generally accepted construction practices, construction contracts will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property that this equipment shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☒ FLS ☒ ACS ☒
DATE: 02/02/2023

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architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121

PROJECT
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REPLACEMENT



SOLANO COMMUNITY COLLEGE
DISTRICT
CONSULTANT



GRADING CONSTRUCTION DETAIL REFERENCES
SEE SHEET C4.1

- 1 CONCRETE PAVING - PER DETAIL 1 / C.3.1
- 2 CURB WITH HANDRAIL - PER DETAIL 2 / C.3.1
- 3 FLUSH CURB WITH HANDRAIL - PER DETAIL 3 / C.3.1

CONSTRUCTION NOTES

- 1 CONFORM TO (E) CONCRETE AT NEAREST CONTROL JOINT
- 2 SAWCUT CONCRETE NEAR EDGE OF BLEACHER AND CONFORM. VERIFY EXTENT OF BLEACHER AND CONCRETE REMOVAL WITH ARCHITECTURAL DRAWINGS.



STATE
DSA FILE NUMBER 48-C1
APPL # 02-120573

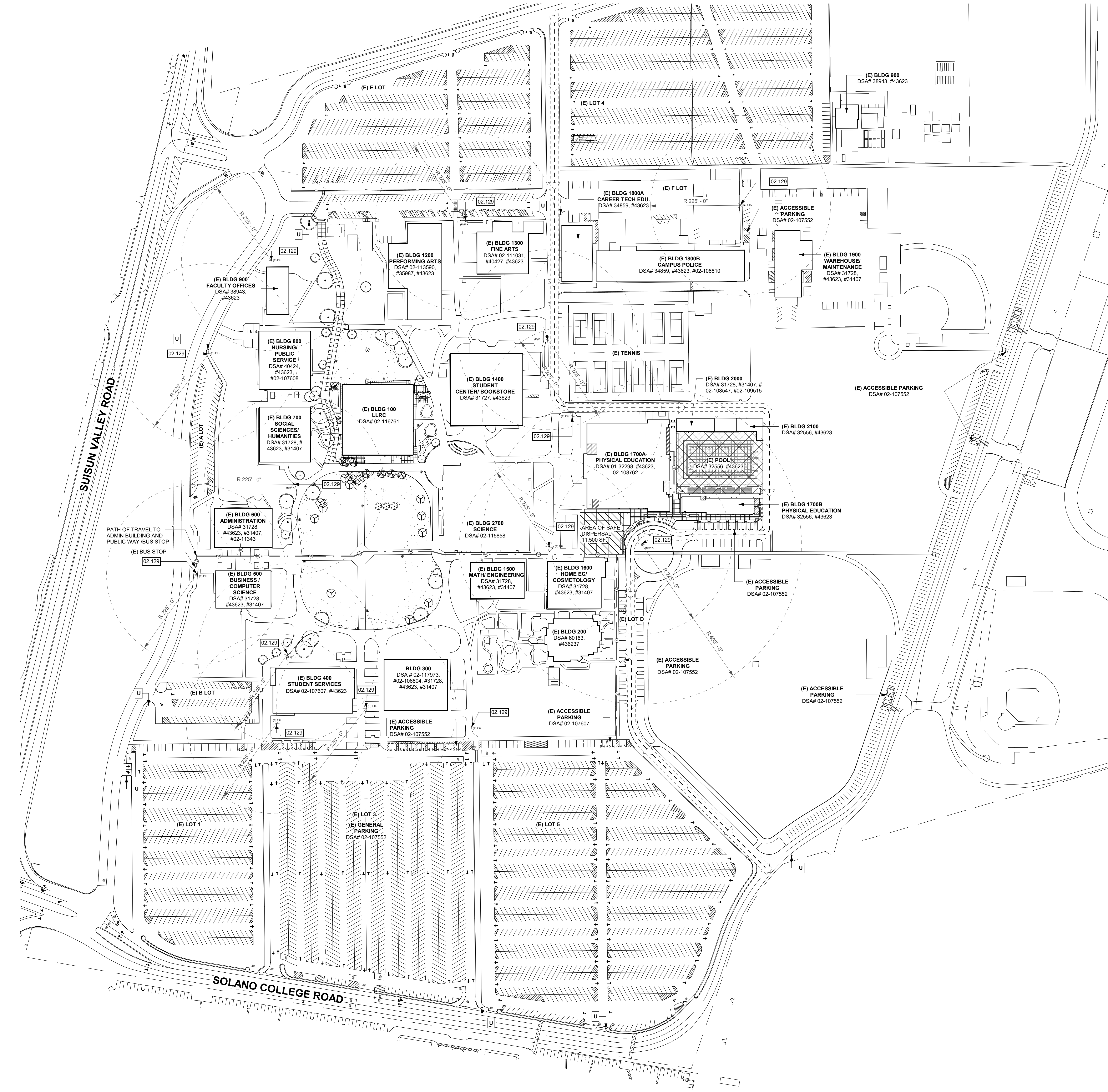
REVISIONS	No.	Description	Date
	1		

MILESTONES		
50% CD	08.24.22	
95% CD	09.23.22	
DSA SUB	10.06.22	
DSA BACK CHECK	12.15.22	

GRADING &
DRAINAGE
PLAN

DATE 12/15/2022
JOB # 2022013
CEI JOB # 2902
SHEET #

C2.1



1 Site
SCALE: 1" = 100'-0"

GENERAL SHEET NOTES

- A CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.
- B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.
- D DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.
- E PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.
- F REFER TO CIVIL, STRUCTURAL, PLUMBING, ELECTRICAL, AND AQUATIC DESIGN DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, PLUMBING, ELECTRICAL, AND AQUATIC DESIGN WORK.
- G THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS 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 THE PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLDS OR 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 NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE.
- H ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

FIRE DEPARTMENT ACCESS PLAN KEYNOTES

02.129 (E) FIRE HYDRANT

PARKING COUNT:

PER CBC 2019, TABLE 11B-209.2	REQUIRED	ACTUAL
GENERAL PARKING LOT S		
PARKING SPACES		902
D.A. PARKING SPACES	15	19
VAN D.A. PARKING SPACES	4	4
GENERAL PARKING LOT D		
PARKING SPACES		65
D.A. PARKING SPACES	3	14
VAN D.A. PARKING SPACES	1	3

GRAPHIC KEY

- AREA OF SCOPE
- EXISTING TOILET ROOMS
- EXISTING CONSTRUCTION TO REMAIN
- AREA OF SAFE DISPERSAL
- FIRE DEPARTMENT ACCESS
FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS.
- D.A. PATH OF TRAVEL
D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND 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 INDICATED. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
- EXISTING FIRE HYDRANT

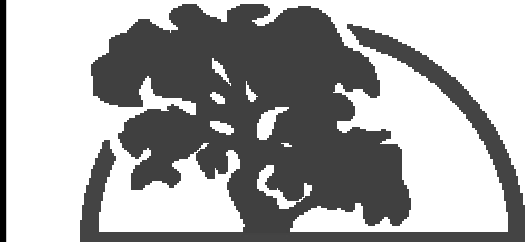
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PROJECT

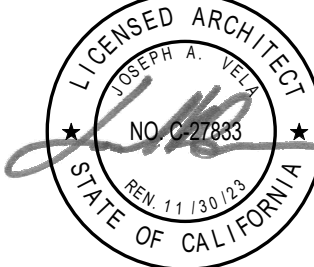
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FAIRFIELD POOL DECK
REPLACEMENT



SOLANO
COMMUNITY COLLEGE
COLLEGE DISTRICT

CONSULTANT

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STATE

DSA FILE NUMBER 48-C1
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REVISIONS

No.	Description	Date
1		

MILESTONES

SD	1.1.2022
DD	2.2.2022
50% CD	3.3.2022
90% CD	4.4.2022
DSA SUB	10.6.2022
BACK CHECK SUB	12.15.2022

SHEET

NEW SITE PLAN
AND FIRE
DEPARTMENT
ACCESS PLAN

DATE

12.15.2022

JOB #

2022013

SHEET #

A0.01



403-A

2019 ENERGY CODE – CERTIFICATES OF COMPLIANCE CHECKLIST

PRESCRIPTIVE METHOD (for Performance Method, use Form DSA 403-B)

PURPOSE

This checklist identifies the 2019 California Energy Code Certificates of Compliance to be submitted with the Plans as part of the plan review process for Prescriptive Compliance. Not all Certificates of Compliance on this checklist may be applicable to the submitted project.

INSTRUCTIONS

Check the appropriate boxes for all required forms pertaining to the submittal. All required information and mandatory measures must be specified in the plans, and all copies of the Certificates of Compliance required for the Project must be submitted in PDF form and a copy of the Certificates of Compliance must be provided in the Plans. The Certificates of Compliance are dynamic and expand or collapse based on the project scope.

For all conditioned buildings pursuing the Prescriptive Method, the following forms are required: Commissioning (CXR), Envelope (ENV), Mechanical (MCH), Indoor Lighting (LTI), Outdoor Lighting (LTO), Electrical Power Distribution (ELC), and Solar Ready (SRA). Plumbing (PLB) is required for each water heater specified in the Project. NRCC-LTS-E is required if internally illuminated or externally illuminated signs are specified either indoors or outdoors in the Project. NRCC-PRC-E is required for Covered Process specified in the Project, which includes computer rooms, data centers, elevators, escalators and moving walkways, laboratories, enclosed parking garages, commercial kitchens, refrigerated warehouses, commercial refrigeration, compressed air systems, or process boilers.

For questions about required Certificates of Compliance and compliance with the California Energy Code contact the Energy Standards Hotline – 1 (800) 772-3300; Outside California: (916) 854-5106. For additional information see www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2019-building-energy-efficiency-1

Key: R = Report Required P = Copy of Form Required on Plans	
Review will not commence until this checklist and all required Certificates of Compliance are submitted.	
COMMISSIONING	R <input type="checkbox"/> NRCC-CXR-E Building Commissioning
	P <input type="checkbox"/> Sheet # in the plans:
ENVELOPE	R <input type="checkbox"/> NRCC-ENV-E Envelope Component Approach
	P <input type="checkbox"/> Sheet # in the plans:
MECHANICAL	R <input type="checkbox"/> NRCC-MCH-E Mechanical Systems
	P <input type="checkbox"/> Sheet # in the plans:
INDOOR LIGHTING	R <input type="checkbox"/> NRCC-LTI-E Indoor Lighting
	P <input type="checkbox"/> Sheet # in the plans:
OUTDOOR LIGHTING	R <input type="checkbox"/> NRCC-LTO-E Outdoor Lighting
	P <input type="checkbox"/> Sheet # in the plans:
SOLAR READY	R <input type="checkbox"/> NRCC-SRA-E Solar Ready
	P <input type="checkbox"/> Sheet # in the plans:

DGS DSA 403-A (rev 01/06/20) Page 1 of 2
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

DSA 403-A

2019 ENERGY CODE – CERTIFICATES OF COMPLIANCE CHECKLIST

ELECTRICAL POWER DISTRIBUTION	R <input checked="" type="checkbox"/> NRCC-ELC-E Electrical Power Distribution
	P <input type="checkbox"/> Sheet # in the plans: E0.02
PLUMBING	R <input checked="" type="checkbox"/> NRCC-PLB-E Plumbing
	P <input checked="" type="checkbox"/> Sheet # in the plans: P0.2
SIGN LIGHTING	R <input type="checkbox"/> NRCC-LTS-E Sign Lighting
	P <input type="checkbox"/> Sheet # in the plans:
COVERED PROCESSES	R <input type="checkbox"/> NRCC-PRC-E Covered Process
	P <input type="checkbox"/> Sheet # in the plans:

As the Professional in General Responsible Charge, I have reviewed the Project Plans and affirm that the documentation submitted is in compliance with the requirements of the 2019 California Energy Code (Title 24, Part 6). The documents checked on pages 1 and 2 of this form are included in the project submittal. I further acknowledge that upon installation of equipment and material identified on compliance forms, I will ensure that the appropriate installation and acceptance tests are conducted and the associated forms completed, signed, and submitted to the owner, and that the completed construction complies with the 2019 California Energy Code Building Energy Efficiency Standards.

Signature: _____ Date: 10/04/22

Print Full Name: Joe Vela

DGS DSA 403-A (rev 01/06/20) Page 2 of 2
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
NRCC-PLB-E (Created 11/19)			
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)(8), and with requirements in §150.2 for additions and alterations.			
Project Name: Solano CCD Pool Deck		Report Page: Page 1 of 5	
Project Address: 4000 Suisun Valley Road Fairfield, CA 94534		Date Prepared: 2022-09-29	
A. GENERAL INFORMATION			
01 Project Location (city)		Fairfield	
02 Climate Zone		11	
03 Occupancy Types Within Project (select all that apply):			
<input checked="" type="checkbox"/> Nonresidential		<input type="checkbox"/> Hotel/ Motel	
<input type="checkbox"/> State Building		<input type="checkbox"/> Healthcare Facility	
<input type="checkbox"/> Other (Write in):			
B. PROJECT SCOPE			
Table Instructions: Include any domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)(8), and §141.0(c), or §141.0(c)(2)(b) for additions or alterations. Solar water heating systems should be documented on the NRCC-SRA compliance document. Combined hydronic water heating systems should be documented on the NRCC-MCH compliance document.			
01 My project consists of (check all that apply):		02 System Type ^{1,2}	
<input checked="" type="checkbox"/> New System (DHW system being installed for the first time in newly constructed building)		<input type="checkbox"/> Individual System (serving nonresidential spaces) ³	
<input type="checkbox"/> System Alteration (equipment, distribution or controls)		<input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Distribution <input checked="" type="checkbox"/> Controls	

¹FOOTNOTE: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.

² Dwelling units refers to hotel/ motel guest rooms and units in a high-rise residential occupancy.

C. COMPLIANCE RESULTS			
Table Instructions: Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.			
01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
(See Table F)	(See Table G)	(See Table H)	
Yes	Yes	Yes	COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
NRCC-PLB-E (Created 11/19)			
CERTIFICATE OF COMPLIANCE			
Project Name: Solano CCD Pool Deck		Report Page: Page 4 of 5	
Project Address: 4000 Suisun Valley Road Fairfield, CA 94534		Date Prepared: 2022-09-29	
I. 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 https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/			
YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PLB-01-E - Must be submitted for all buildings	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance.	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-PLB-03-E - Must be submitted for high-rise residential and hotel/ motel single dwelling unit hot water distribution systems to be recognized for compliance.	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
There are no Certificates of Acceptance applicable to service water heating requirements.	

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION			
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 completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/			
YES	NO	Form/Title	Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION			
Domestic Water Heating System					
NRCC-PLB-E (Created 11/19)					
CERTIFICATE OF COMPLIANCE					
Project Name: Solano CCD Pool Deck		Report Page: Page 3 of 5			
Project Address: 4000 Suisun Valley Road Fairfield, CA 94534		Date Prepared: 2022-09-29			
Table Continued					
Mandatory Pipe Insulation All Occupancies					
12	<input checked="" type="checkbox"/>	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3.3-A (see below) per §120.3: - Recirculating system piping, including supply and return piping of the water heater - The first 8 ft of hot and cold outlet piping for a nonrecirculating storage system - Pipes that are externally heated			
13	<input checked="" type="checkbox"/>	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(i) and §150.0(c)(3)			
TABLE 120.3-A PIPE INSULATION THICKNESS					
Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			<1	1 to <1.5	1.5 to <4
Minimum Insulation Required					
105-140	0.22-0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

H. DOMESTIC HOT WATER SYSTEM CONTROLS			
Table Instructions: Complete the following table to demonstrate compliance with controls requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements in §150.1(c)(8).			
	Yes	No	Requirement
01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a)
02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)(1) unless covered by California Plumbing Code Section 613.0.
03	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)(2) unless system serves healthcare facility.
04	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)(8)(ii), or §150.2 for additions or alterations
05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA 4.4.9 per §150.1(c)(8).
06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For replacement single heat pump water heaters serving individual dwelling units in climate zones 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)(1)(ii).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
NRCC-PLB-E (Created 11/19)			
CERTIFICATE OF COMPLIANCE			
Project Name: Solano CCD Pool Deck		Report Page: Page 2 of 5	
Project Address: 4000 Suisun Valley Road Fairfield, CA 94534		Date Prepared: 2022-09-29	
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. DOMESTIC HOT WATER EQUIPMENT					
Table Instructions: Complete the following table to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)(8) must also be demonstrated and with §150.2 for addition and alteration scopes.					
Equipment Schedule: Individual Systems					
01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF) ¹
IEWH-1	Residential-Duty Commercial Electric Instantaneous (12-58.6kW)	≤2	GPM ≥ 4.0	0.96	0.8

¹ FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://caenergyefficiency.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>

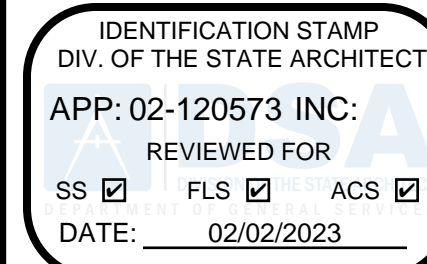
Water Heating Equipment All Occupancies			
	Yes	No	Requirement
18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unfired storage tank insulation shall have Internal + External ≥ R-16 OR External ≥ R-12. Label required per §110.3(c)(3)
19	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)(5)
20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Isolation valves for instantaneous water heater with input rating > 6.8 kBtUH or 2 kW has been specified per §110.3(c)(6)

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM	
Table Instructions: Complete the following table to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements in §110.3(c), §120.3, §150.0, §150.1.	
Table Continued	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
NRCC-PLB-E (Created 11/19)			
CERTIFICATE OF COMPLIANCE			
Project Name: Solano CCD Pool Deck		Report Page: Page 5 of 5	
Project Address: 4000 Suisun Valley Road Fairfield, CA 94534		Date Prepared: 2022-09-29	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete			
Documentation Author Name: Sean Tichenor		Documentation Author Signature: _____	
Company: Peters Engineering		Signature Date: 2022-09-29	
Address: 7750 College Town Drive, Suite 101		CEA/ HERS Certification Identification (if applicable):	
City/State/Zip: Sacramento, CA 95826		Phone: (916) 447-2841	
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: Sean Tichenor		Responsible Designer Signature: _____	
Company: Peters Engineering		Date Signed: 2022-09-29	
Address: 7750 College Town Drive, Suite 101		License: M31176	
City/State/Zip: Sacramento, CA 95826		Phone: (916) 447-2841	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019



aedis architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT

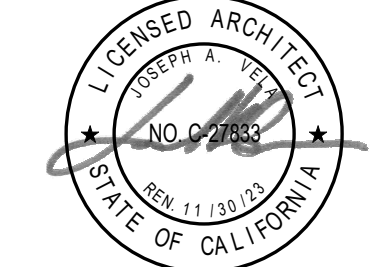


EXCELLENCE. IT TAKES EVERYONE!

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

STAMP



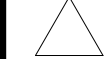
STATE

DSA FILE NUMBER 48-C1

APPL # 02-120573

REVISIONS

No.	Description	Date
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MILESTONES

SD	1.1.2022
DD	2.2.2022
50% CD	3.3.2022
90% CD	4.4.2022
DSA SUB	10.6.2022
BACK CHECK SUB	12.15.2022

SHEET

TITLE 24 & DSA
403-A

DATE

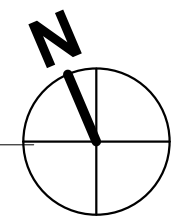
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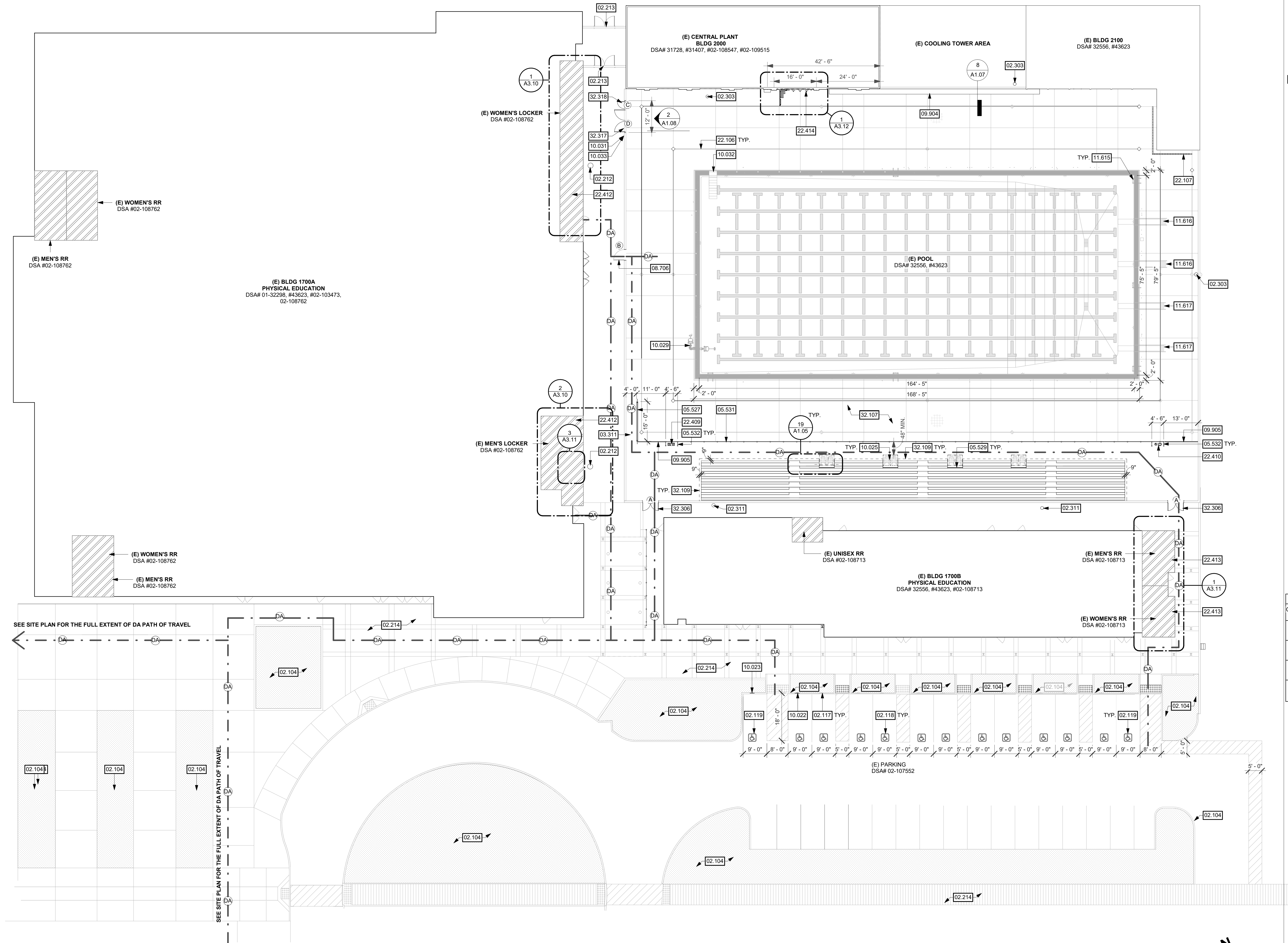
JOB

2022013

SHEET

A0.02





1 ENLARGED SITE PLAN
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

- A CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B.206.
- B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.
- D DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.
- E PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.
- F REFER TO CIVIL, STRUCTURAL, PLUMBING, ELECTRICAL, AND AQUATIC DESIGN DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, PLUMBING, ELECTRICAL, AND AQUATIC DESIGN WORK.
- G THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS 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 THE PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLDS OR 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.
- H ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

NEW SITE PLAN KEYNOTES

- 02.104 (E) LANDSCAPING
- 02.117 (E) POLE MOUNTED SIGNAGE FOR ACCESSIBLE PARKING, TYP.
- 02.118 (E) D.A. PARKING STALL
- 02.119 (E) D.A. VAN ACCESSIBLE PARKING STALL
- 02.212 (E) DRINKING FOUNTAIN
- 02.213 (E) MAINTENANCE GATE
- 02.214 (E) CONCRETE PAVING
- 02.303 (E) LIGHT POLE TO REMAIN
- 02.311 (E) LIGHT POLE WITH PA SYSTEM
- 03.311 CONCRETE WALKWAY, S.C.D.
- 05.527 1 1/2" DIAMETER POWDER COATED STEEL GUARDRAIL OVER CURB, S.C.D. AND DETAIL 1 / A1.06
- 05.529 2 1/2" DIAMETER POWDER COATED STEEL GUARDRAIL, S.S.D. AND DETAIL 16 / A1.05
- 05.531 1 1/2" DIAMETER POWDER COATED STEEL GUARDRAIL, S.C.D. AND DETAIL 2 / A1.06
- 05.532 1 1/2" DIAMETER POWDER COATED STEEL HI-LO DRINKING FOUNTAIN SAFETY RAIL, SEE DETAIL 4 / A1.06
- 08.706 (E) DOOR WITH PANIC HARDWARE, ADD KICK PLATE PER DETAIL 13 / A1.07
- 09.904 REPLACE FINISH FROM UTILITY PIPE COVER, SEE DETAIL 8 / A1.07
- 09.905 SLIP RESISTANT CONTRASTING STRIP AT STAIR NOSE, SEE DETAIL 5 / A1.06
- 10.022 ACCESSIBLE PARKING SIGN, POLE MOUNTED, SEE DETAIL 1 / A1.07
- 10.023 VAN ACCESSIBLE PARKING SIGN, POLE MOUNTED, SEE DETAIL 1 / A1.07
- 10.025 WHEELCHAIR ACCESSIBLE SEATING, SEE DETAIL 2 / A1.05
- 10.029 ACCESSIBLE CHAIRLIFT, SEE AQUATIC DESIGN DRAWINGS
- 10.031 SIGN AT GATE READING "GATE SHALL REMAIN UNLOCKED AND UNDER CONSTANT IMMEDIATE SUPERVISION WHILE THE PUBLIC IS PRESENT"
- 10.032 ACCESSIBLE STAIRS, SEE AQUATIC DRAWINGS
- 10.033 SIGN PER TYPICAL SIGNAGE 10b, DETAIL 3/A1.05
- 11.615 POOL LADDER, SEE AQUATIC DESIGN DRAWINGS, TYP.
- 11.616 THREE METER DIVE STAND, SEE AQUATIC DESIGN DRAWINGS, TYP.
- 11.617 ONE METER DIVE STAND, SEE AQUATIC DESIGN DRAWINGS, TYP.
- 22.106 SLOT DRAIN, SEE AQUATIC DESIGN DRAWINGS
- 22.107 TRENCH DRAIN, SEE AQUATIC DESIGN DRAWINGS
- 22.409 D.A. HI-LO DRINKING FOUNTAIN, S.P.D. AND DETAIL 16 / A1.06
- 22.410 D.A. HI-LO DRINKING WITH BOTTLE FILLING STATION, S.P.D. AND DETAIL 8 / A1.06
- 22.412 ENLARGED RESTROOM/LOCKER ROOM FLOOR PLAN PROVIDED TO SHOW CODE COMPLIANCE, SCOPE OF WORK LIMITED TO SIGNAGE AND ADDITION OF A GRAB BAR, SEE SHEET A3.10 AND A3.11
- 22.413 ENLARGED RESTROOM/LOCKER ROOM FLOOR PLAN PROVIDED TO SHOW CODE COMPLIANCE, SCOPE OF WORK IS LIMITED TO SIGNAGE, SEE SHEET A3.11
- 22.414 OUTDOOR SHOWERS, S.P.D. AND ENLARGED OUTDOOR SHOWER PLAN AND DETAILS ON A3.12
- 32.107 POOL DECK, SEE AQUATIC DESIGN DRAWINGS
- 32.109 EDGE OF (N) AND (E) CONCRETE WALKWAY, CONFIRM AND CONFORM SEE DETAIL 9 / A1.06
- 32.306 6" WIDE, DOUBLE ORNAMENTAL GATE WITH PANIC HARDWARE, SEE DETAIL 20 / A1.07
- 32.317 8" WIDE, ORNAMENTAL ACCESSIBLE DOUBLE GATE WITH PANIC HARDWARE, SEE ELEVATIONS AND DETAILS ON A1.08
- 32.318 34" WIDE, ORNAMENTAL ACCESSIBLE MAN GATE WITH PANIC HARDWARE, SEE ELEVATIONS AND DETAILS ON A1.08

GRAPHIC KEY

- EXISTING TOILET ROOMS, REFER TO NOTES FOR ADDITIONAL INFORMATION.
- EXISTING CONSTRUCTION TO REMAIN
- D.A. PATH OF TRAVEL
- D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND 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 INDICATED. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

GATE SCHEDULE									
GATE TAG	GATE TYPE	WIDTH	HEIGHT	PANIC	MATERIAL	FINISH	HARDWARE	D.A.	USE
A	ORNAMENTAL DOUBLE GATE	6'-0"	8'-0"	YES	STEEL	BLACK POWDER COATED	NEW	YES	EGRESS 20 / A1.07
B	ORNAMENTAL MAN GATE *	4'-0"	7'-0"	YES	STEEL	BLACK POWDER COATED	(E) TO REMAIN	YES	EGRESS 13 / A1.07
C	ORNAMENTAL MAN GATE	2'-10"	7'-0"	YES	STEEL	BLACK POWDER COATED	NEW	YES	EGRESS 2 / A1.08
D	ORNAMENTAL DOUBLE GATE	8'-0"	7'-0"	YES	STEEL	BLACK POWDER COATED	NEW	YES	EGRESS 2 / A1.08

* (E) KING KONG HINGES, PANIC HARDWARE AND LATCH SET. RESET DOOR PRESSURE FOR ADA COMPLIANCE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120573 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 02/02/2023

aedis
architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121

PROJECT

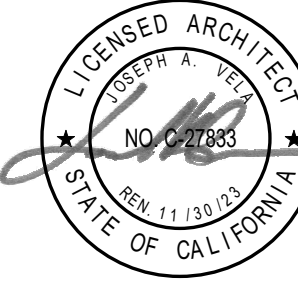
SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT



SOLANO
COMMUNITY COLLEGE
SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 48-C1
APPL # 02-120573

REVISIONS

No.	Description	Date
1		

MILESTONES

SD	1.1.2022
DD	2.2.2022
50% CD	3.3.2022
90% CD	4.4.2022
DSA SUB	12.15.2022
BACK CHECK SUB	12.15.2022

SHEET

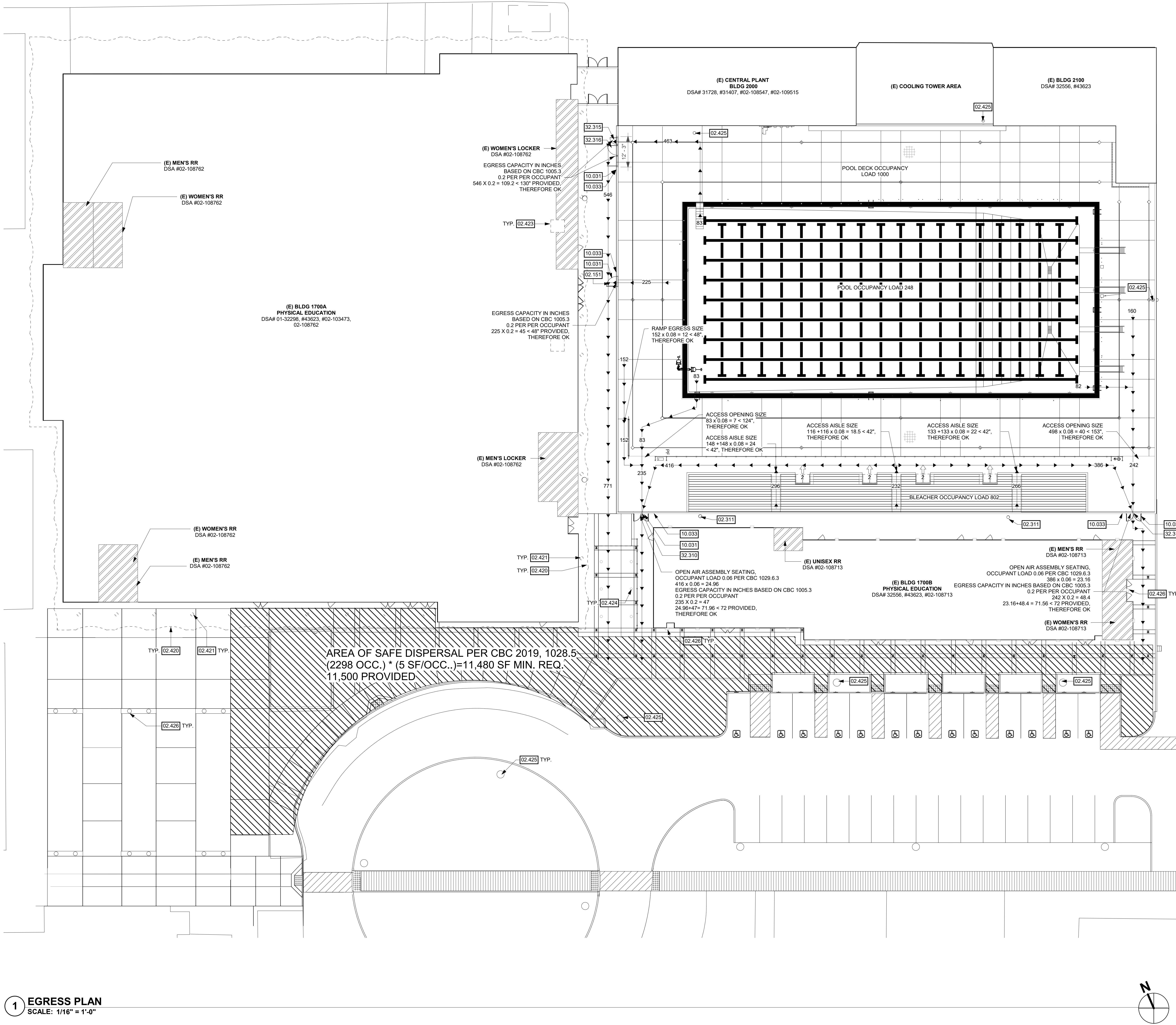
NEW ENLARGED
SITE PLAN

DATE 12.15.2022

JOB # 2022013

SHEET

A1.03



1 EGRESS PLAN
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

- A CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.
- B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.
- D DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.
- E PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.
- F REFER TO CIVIL, STRUCTURAL, PLUMBING, ELECTRICAL, AND AQUATIC DESIGN DRAWINGS FOR EXTENT OF CIVIL, STRUCTURAL, PLUMBING, ELECTRICAL, AND AQUATIC DESIGN WORK.
- G THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS 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 THE PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLDS OR 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.
- H ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

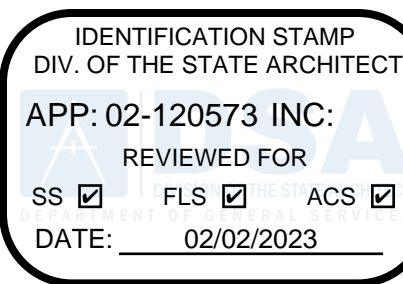
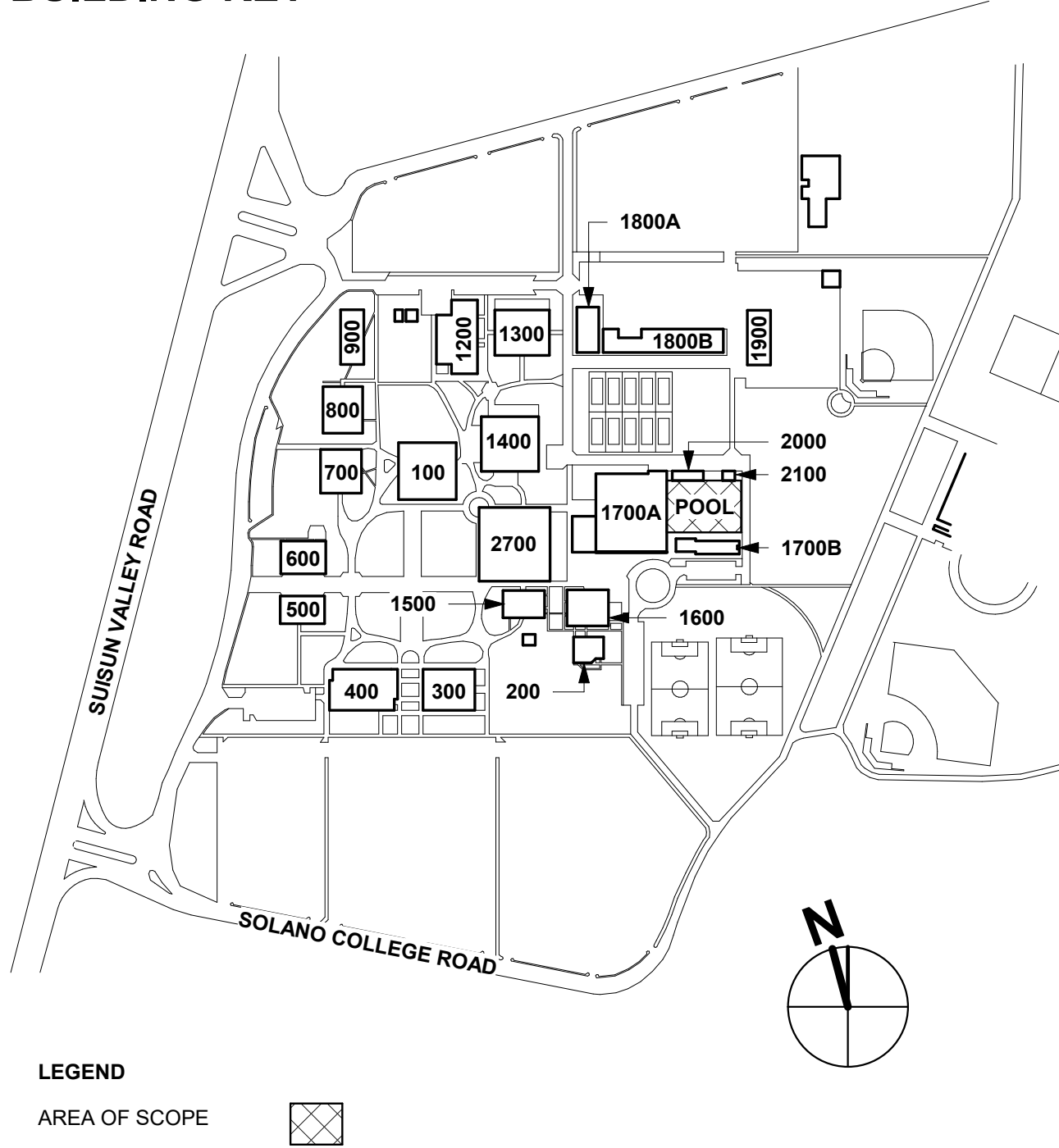
EGRESS PLAN KEYNOTES

- 02.151 (E) GATE WITH PANIC HARDWARE EXIT WIDTH OF 48"
02.311 (E) LIGHT POLE WITH PA SYSTEM
02.420 (E) EAVES
02.421 (E) RECESSED DOWN LIGHT ILLUMINATING PATH OF TRAVEL
02.423 (E) ROOF MOUNT FLOOD LIGHT ILLUMINATING PATH OF TRAVEL
02.424 (E) PATH LIGHTING ILLUMINATING PATH OF TRAVEL
02.425 (E) LIGHT POLE
02.426 (E) SURFACE MOUNT LIGHT FIXTURE ILLUMINATING PATH OF TRAVEL
10.031 SIGN AT GATE READING "GATE SHALL REMAIN UNLOCKED AND UNDER CONSTANT IMMEDIATE SUPERVISION WHILE THE PUBLIC IS PRESENT".
10.033 SIGN PER TYPICAL SIGNAGE 10b, DETAIL 3/A1.05
32.310 GATE PANIC HARDWARE WITH EXIT WIDTH OF 72"
32.315 SINGLE GATE PANIC HARDWARE WITH EXIT WIDTH OF 34"
32.316 DOUBLE GATE PANIC HARDWARE WITH EXIT WIDTH OF 96"

GRAPHIC KEY

- EXISTING TOILET ROOMS. REFER TO NOTES FOR WORK IN THESE AREA
- EXISTING CONSTRUCTION TO REMAIN
- SAFE AREA OF DISPERSAL
- EGRESS ROUTE

BUILDING KEY

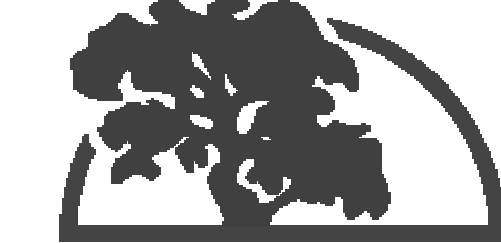


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PROJECT

SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT



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COMMUNITY COLLEGE
DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 48-C1
APPL # 02-120573

REVISIONS

No.	Description	Date
1		

MILESTONES

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90% CD	4.4.2022
DSA SUB	12.15.2022
BACK CHECK SUB	12.15.2022

SHEET

EGRESS PLAN

DATE 12.15.2022

JOB # 2022013

SHEET #

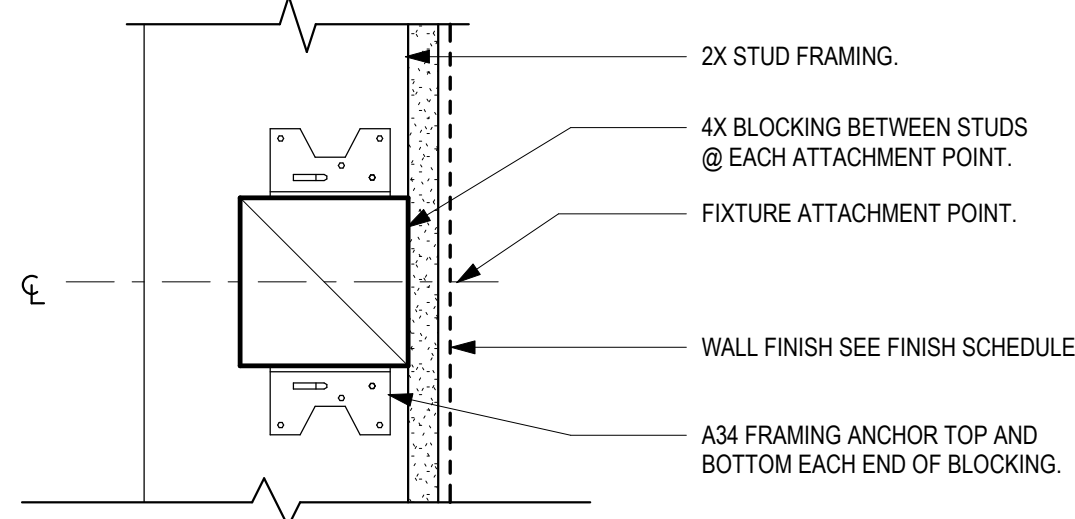
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SHEET NOTE

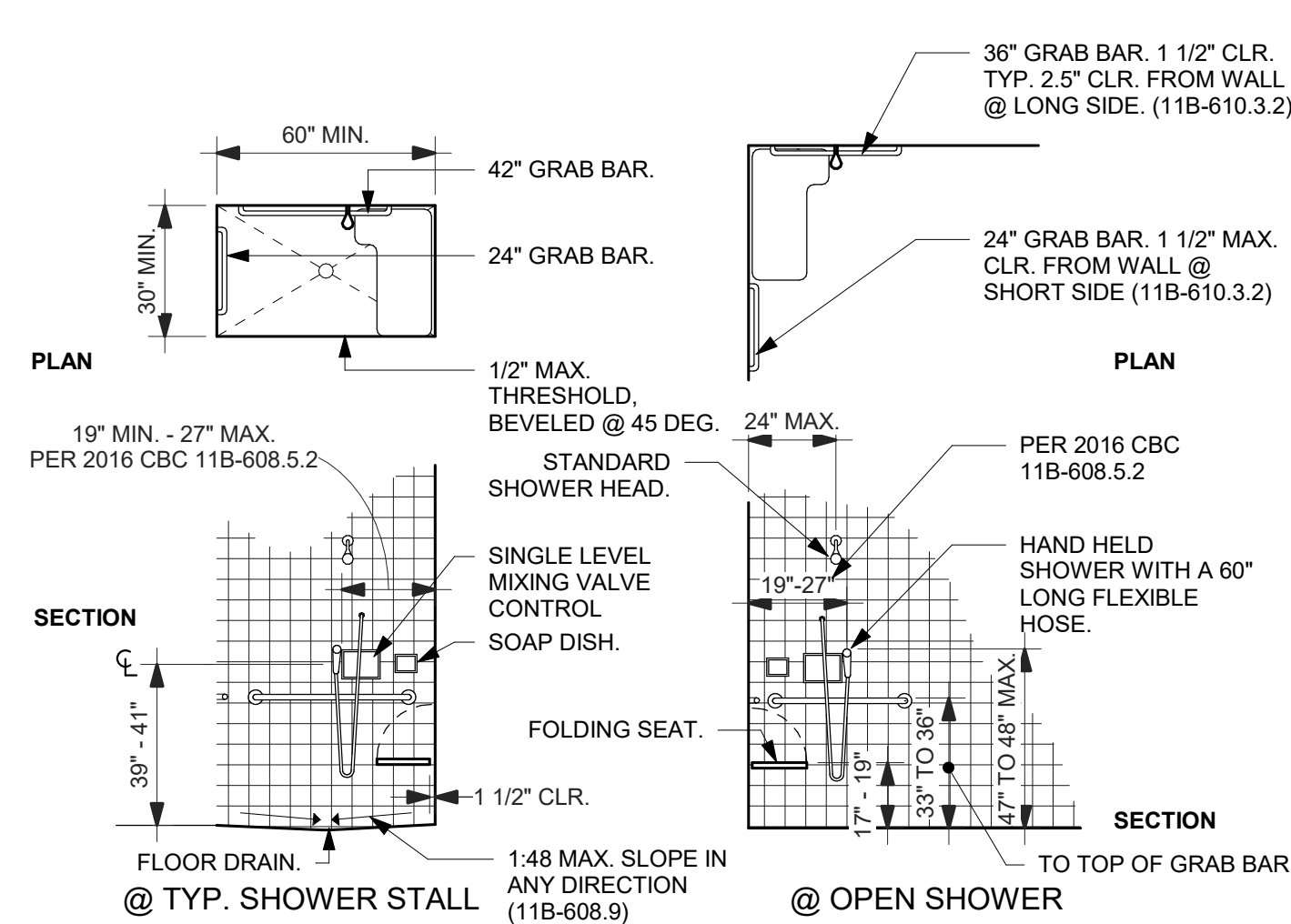
SPECIAL INSPECTION EXEMPTIONS

1 - 1705A.3.3.2 BATCH PLANT INSPECTION NOT REQUIRED. (DSA-SS, DSA-SS/CC)
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1. FLATWORK
2. UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS.

2 - HANDRAILS AND GUARDRAILS AND RAMPS LESS THAN 30 DEG TO HORIZONTAL SUBGRADE



9 TYPICAL WOOD WALL BACKING BLOCKING
SCALE: 3" = 1'-0"



5 PLUMBING FIXTURE MOUNTING HEIGHTS @ ACCESSIBLE SHOWERS
SCALE: 1/4" = 1'-0"

Table 11B-703.3.1 Braille Dimensions	
Measurement Range	Minimum in Inches Maximum in Inches
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below	0.395 (10 mm) to 0.400 (10.2 mm)
1. Measured center to center.	

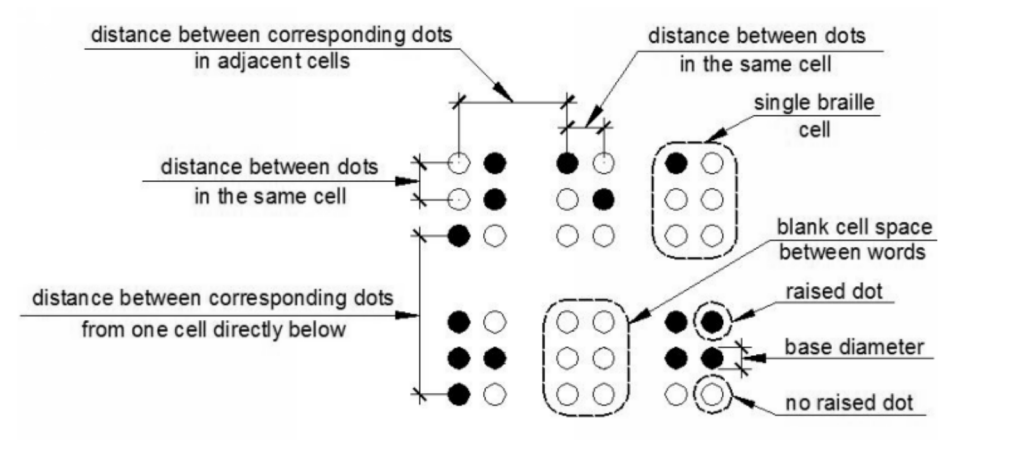
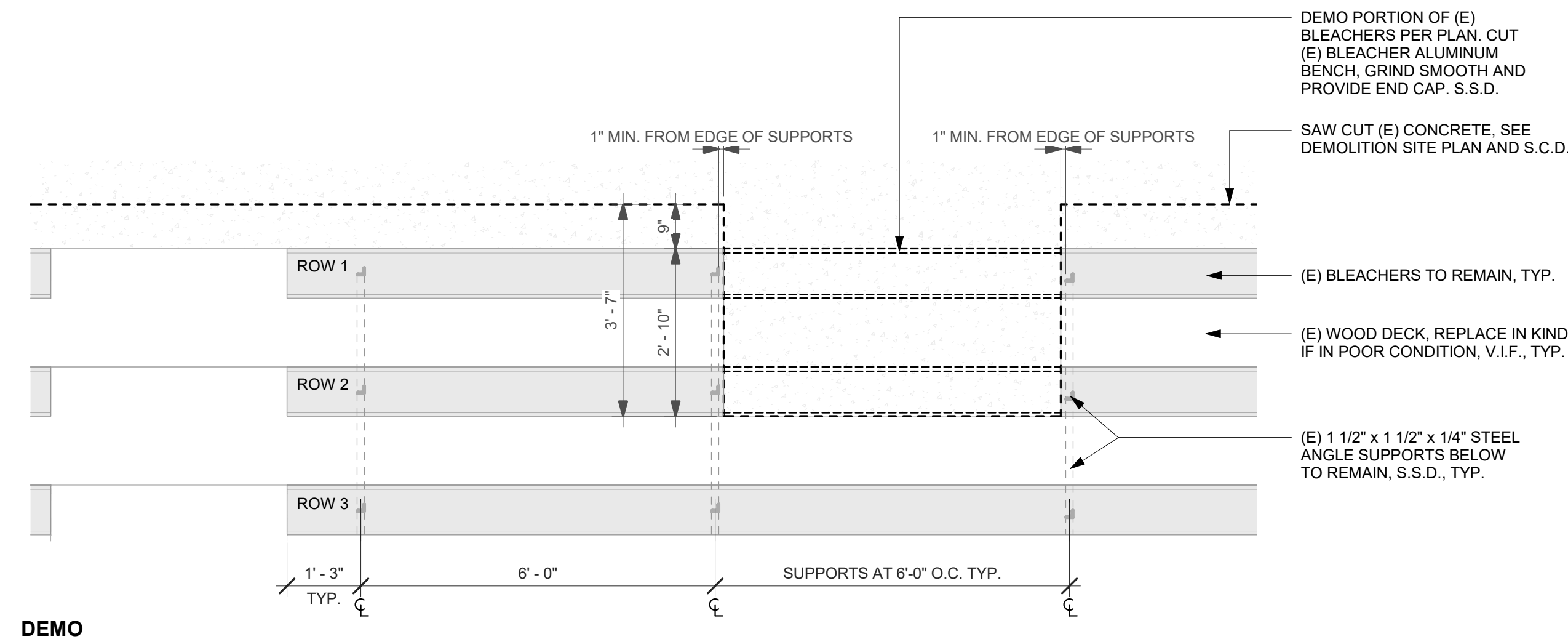


Figure 11B-703.3.1
Braille Measurement

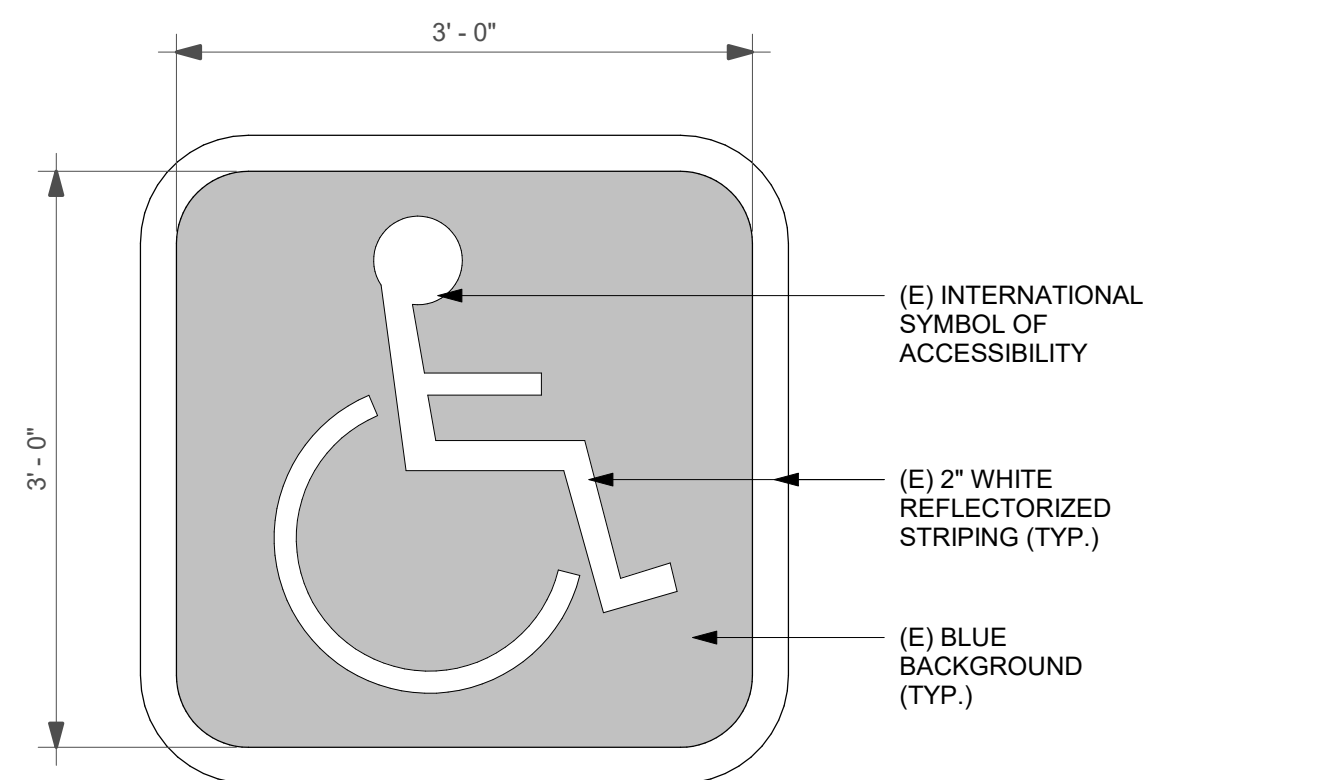
4 TABLE 11B-703.3.1 BRAILLE DIMENSIONS
SCALE: 1" = 1'-0"



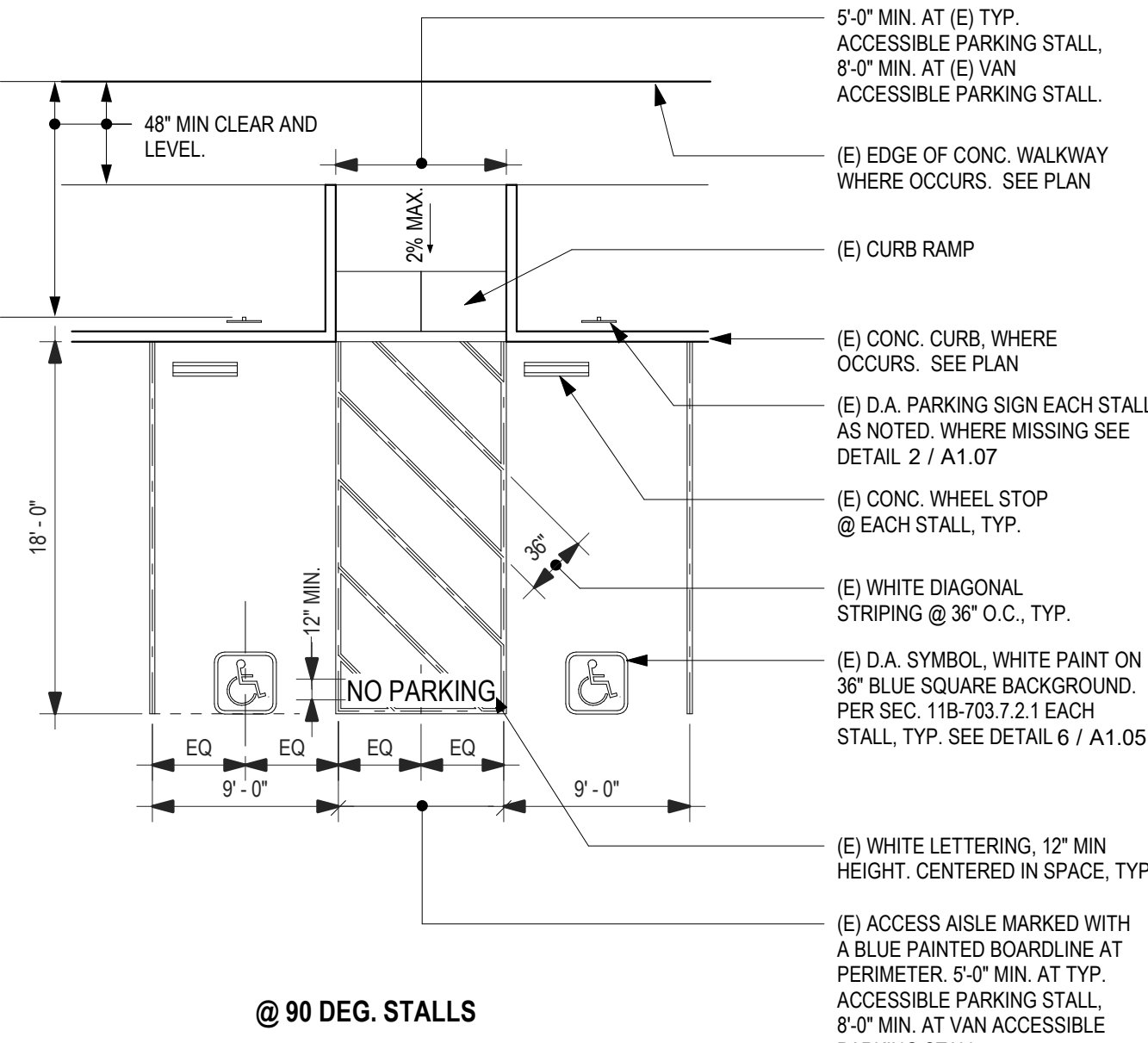
DEMO

NEW

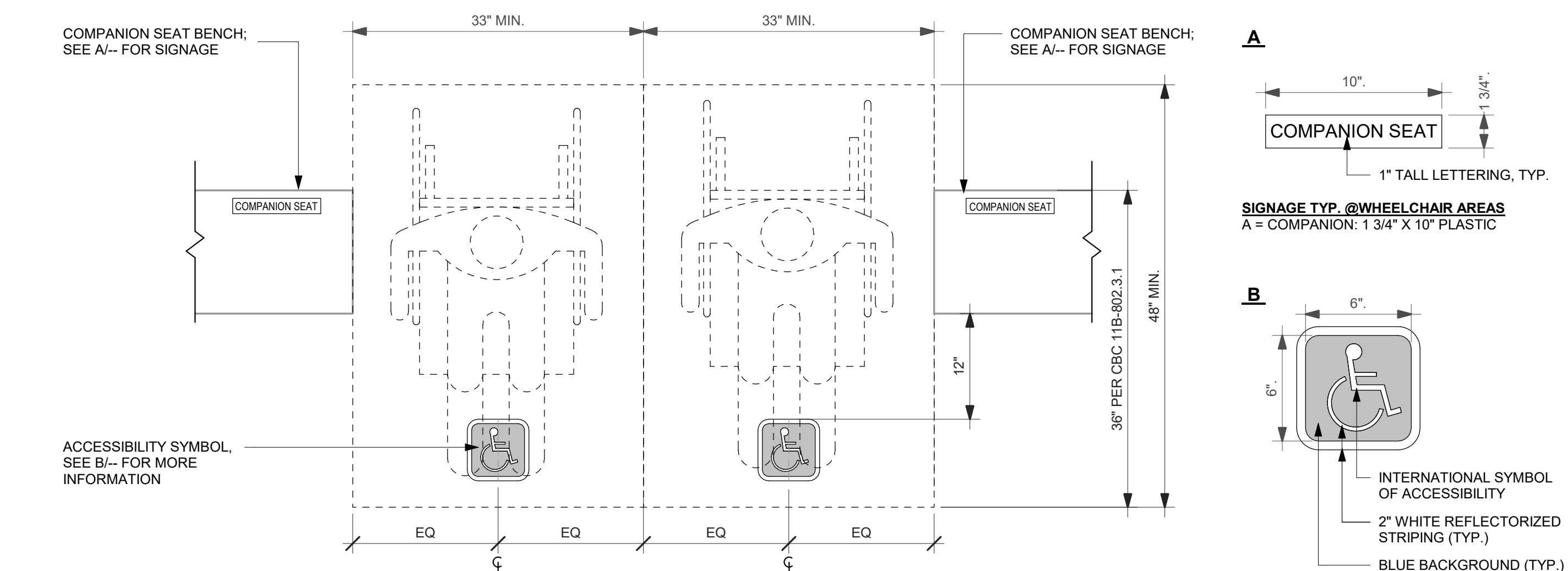
19 ENLARGED PLAN - WHEELCHAIR ACCESSIBLE SEATING
SCALE: 1/2" = 1'-0"



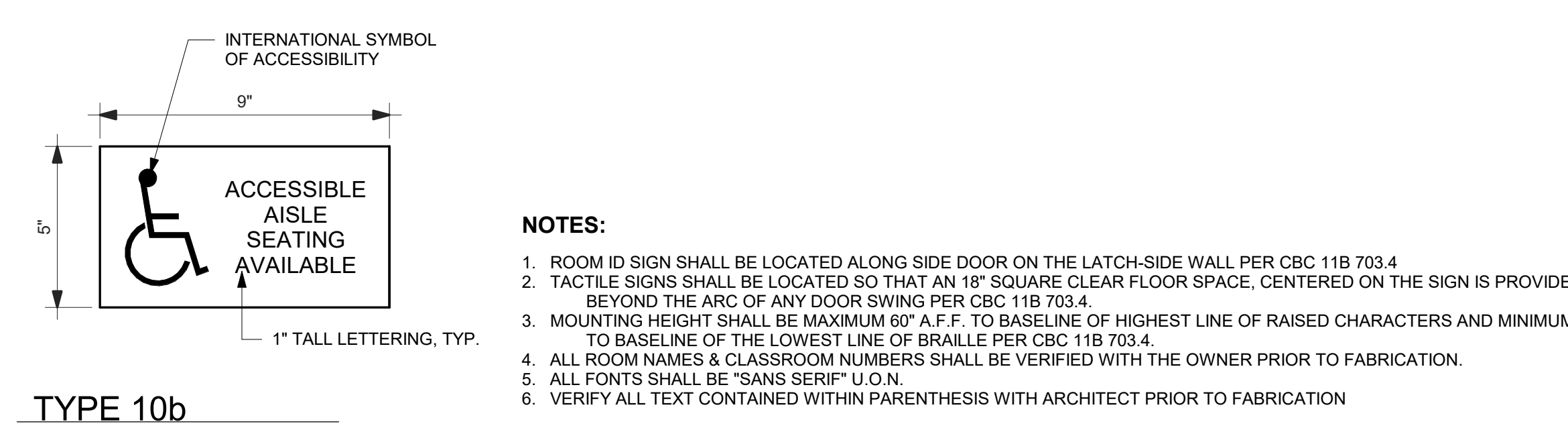
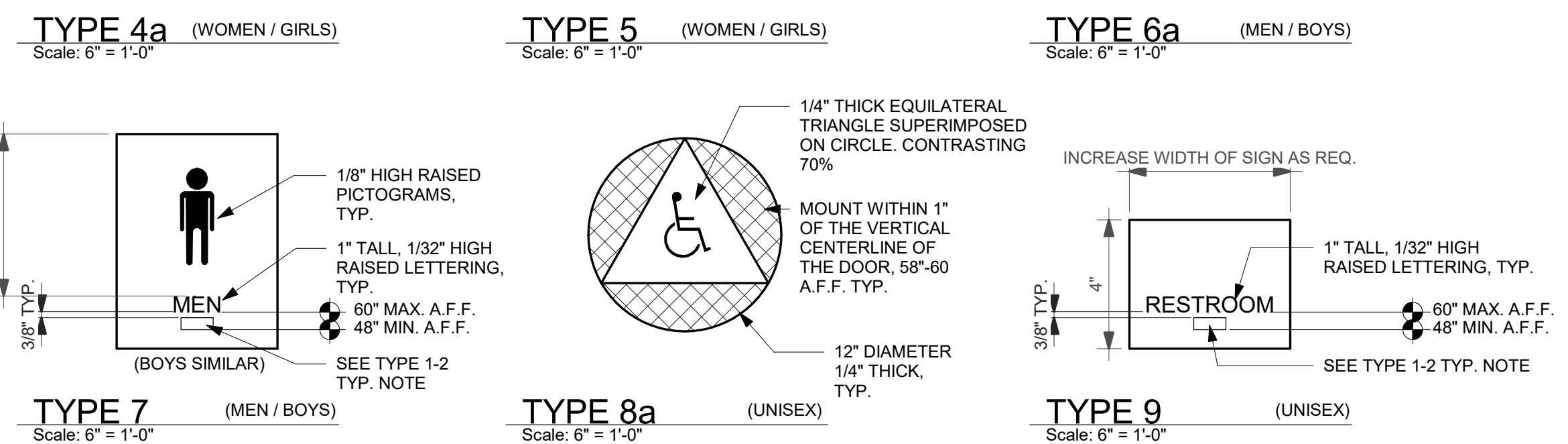
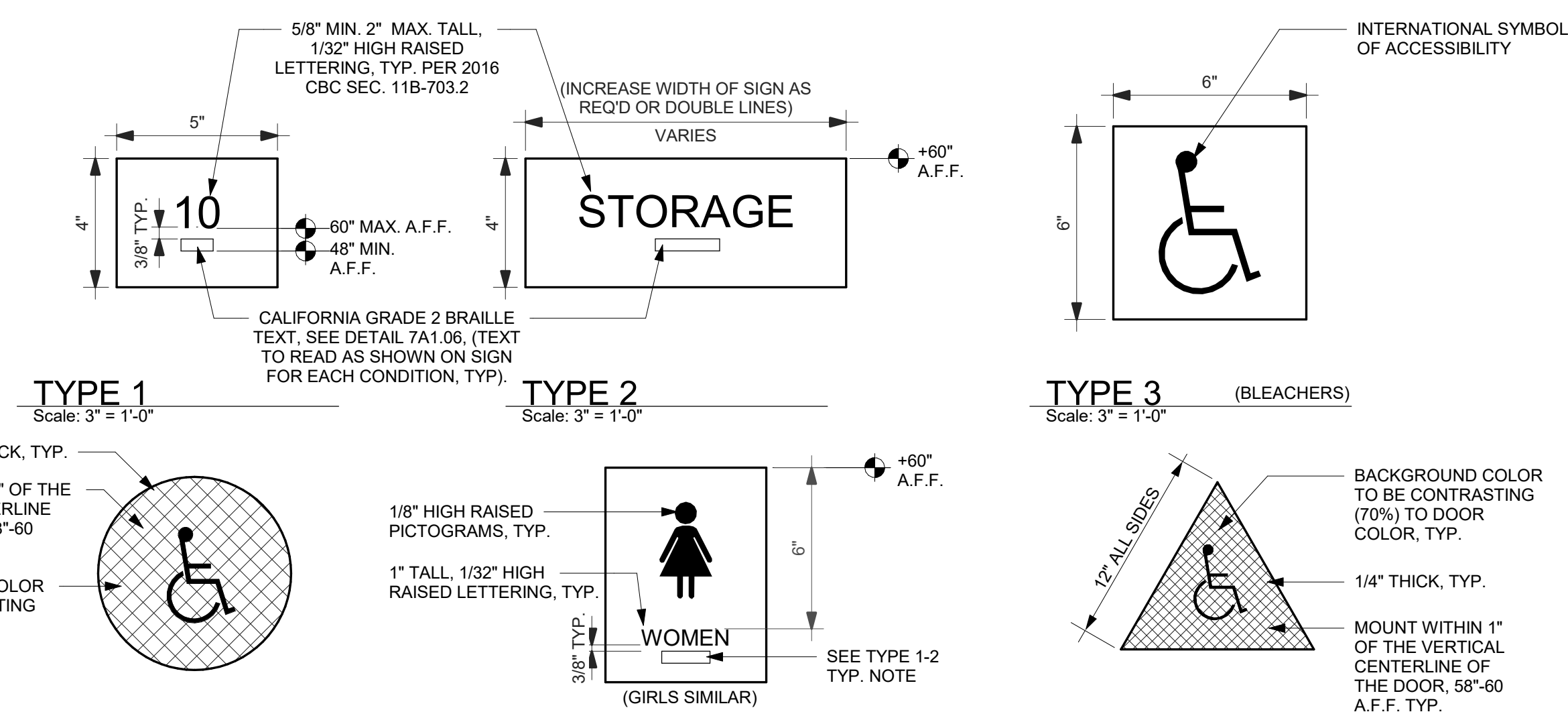
6 (E) ACCESSIBLE SYMBOL
SCALE: 1" = 1'-0"



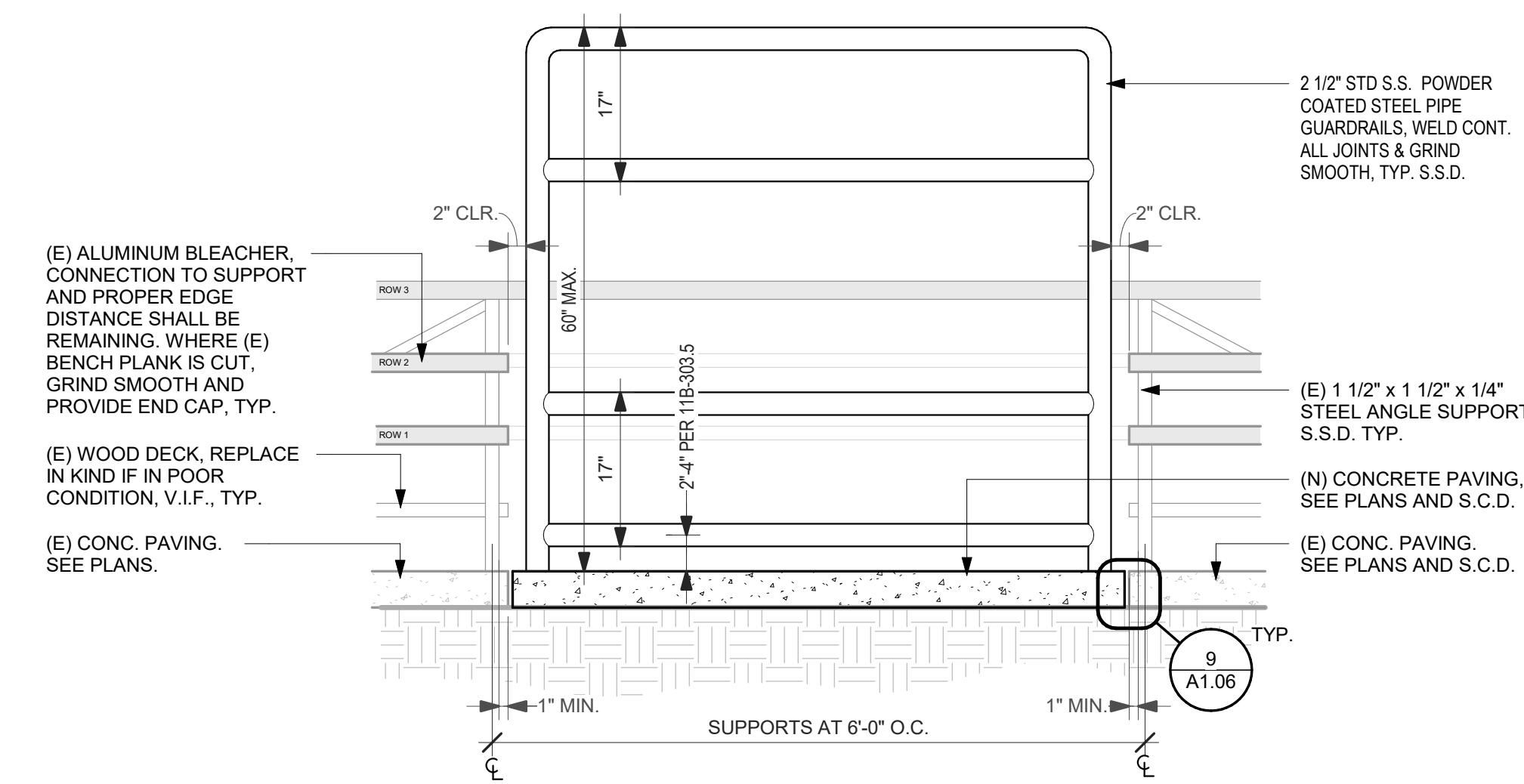
7 (E) D.A. PARKING STALL
SCALE: 1/8" = 1'-0"



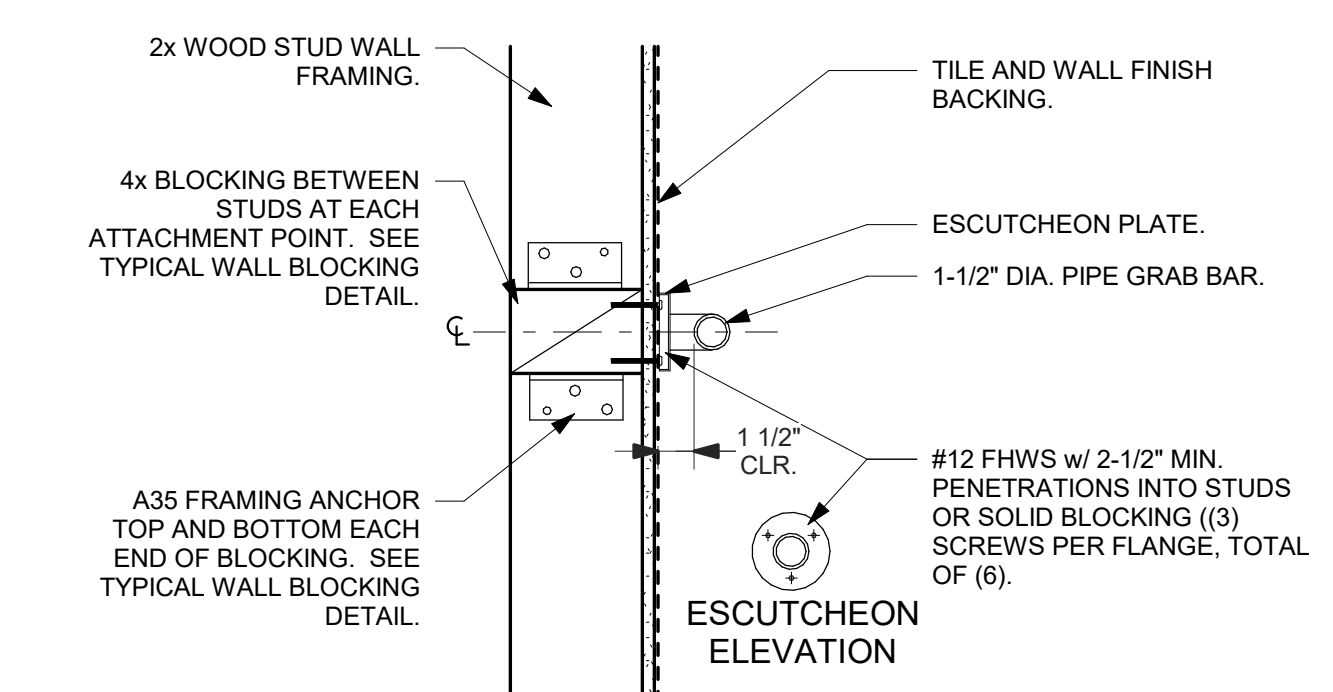
2 WHEELCHAIR ACCESSIBLE SEATING DETAIL
SCALE: 1" = 1'-0"



3 TYPICAL SIGNAGE
SCALE: 3" = 1'-0"



16 GUARDRAIL AT WHEELCHAIR ACCESSIBLE SEATING
SCALE: 3/4" = 1'-0"



8 GRAB BAR ANCHORAGE (2X STUDS)
SCALE: 1 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120573 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 02/02/2023

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architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
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tel: (408)-300-5160
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PROJECT

**SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT**



SOLANO
COMMUNITY COLLEGE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 48-C1
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BACK CHECK SUB	12.15.2022

SHEET

SITE DETAILS

DATE

12.15.2022

JOB #

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SHEET #

A1.05

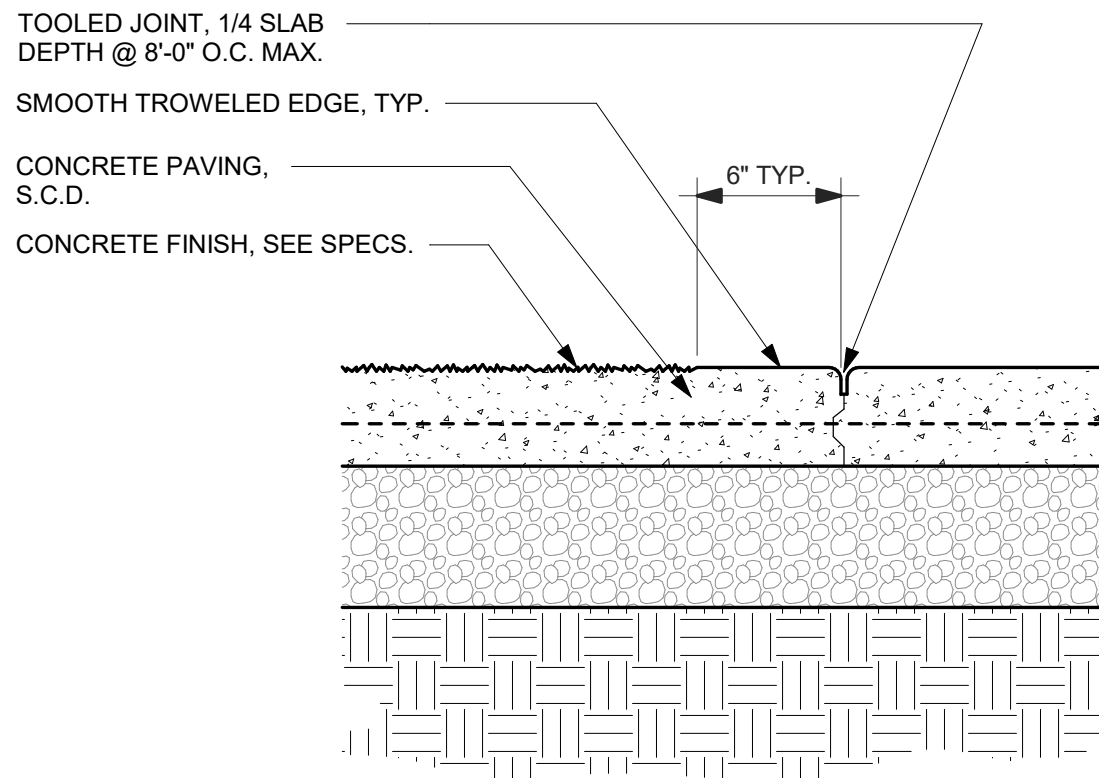
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SHEET NOTE

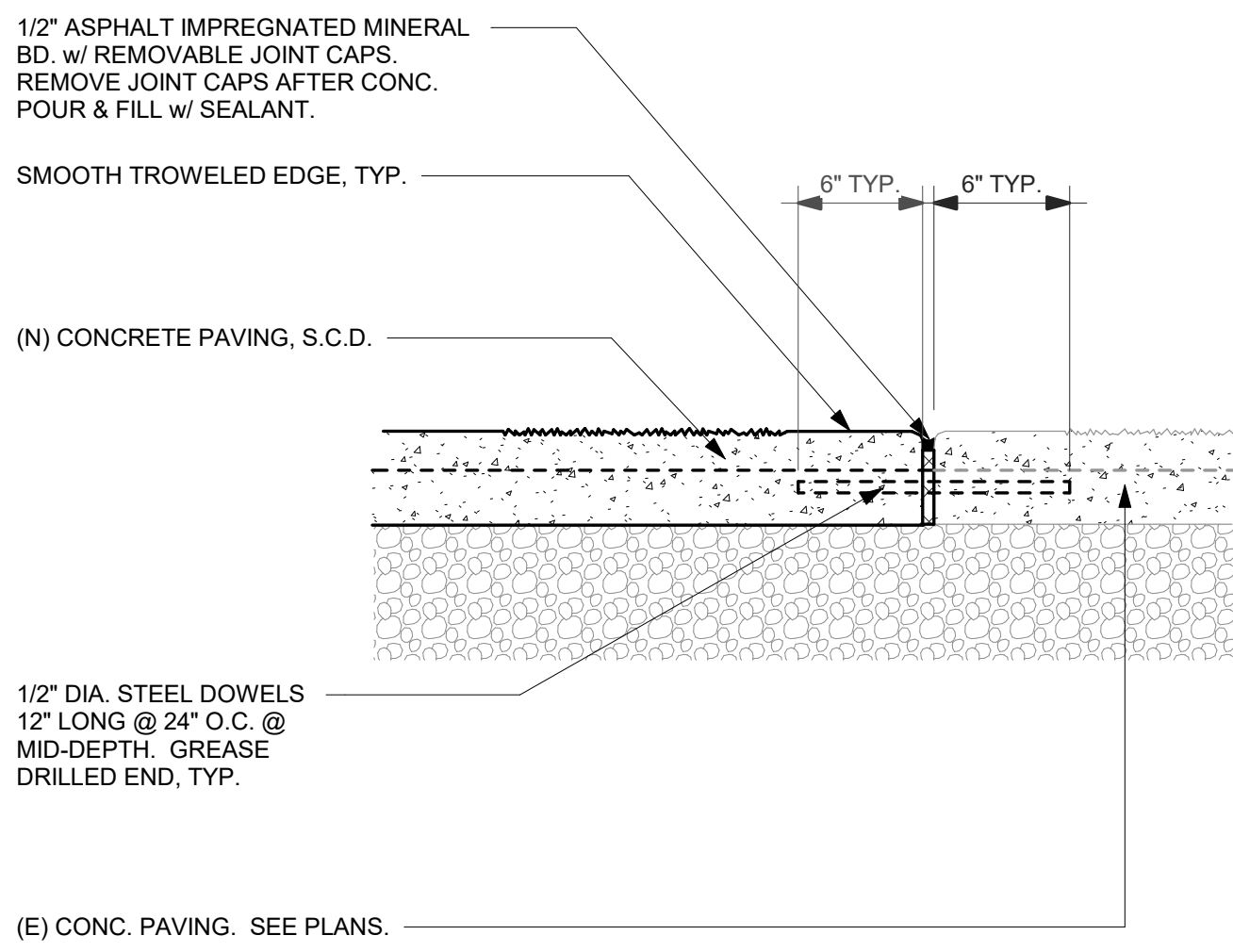
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IMPLEMENTED.

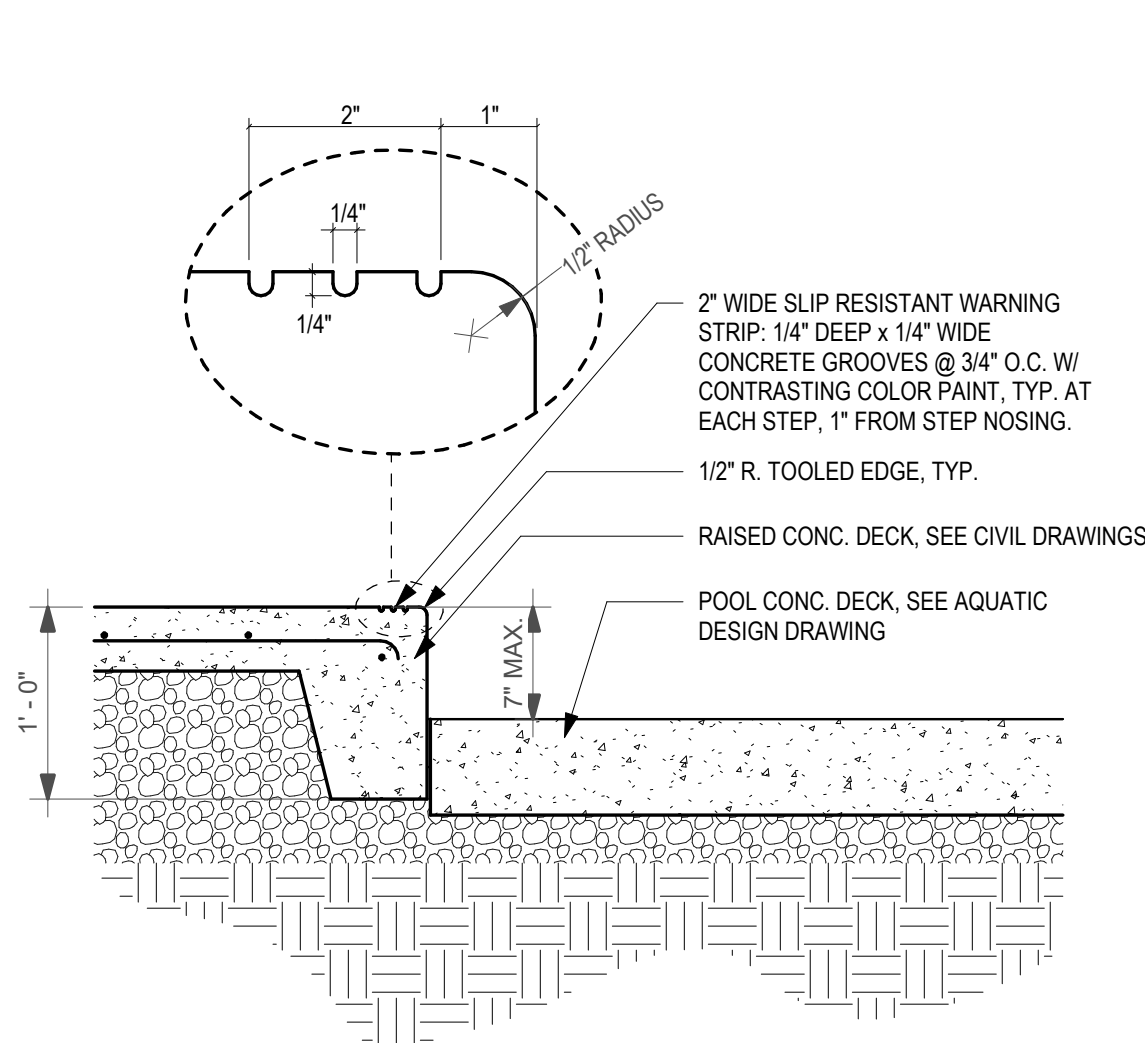
1. FLATWORK
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OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR
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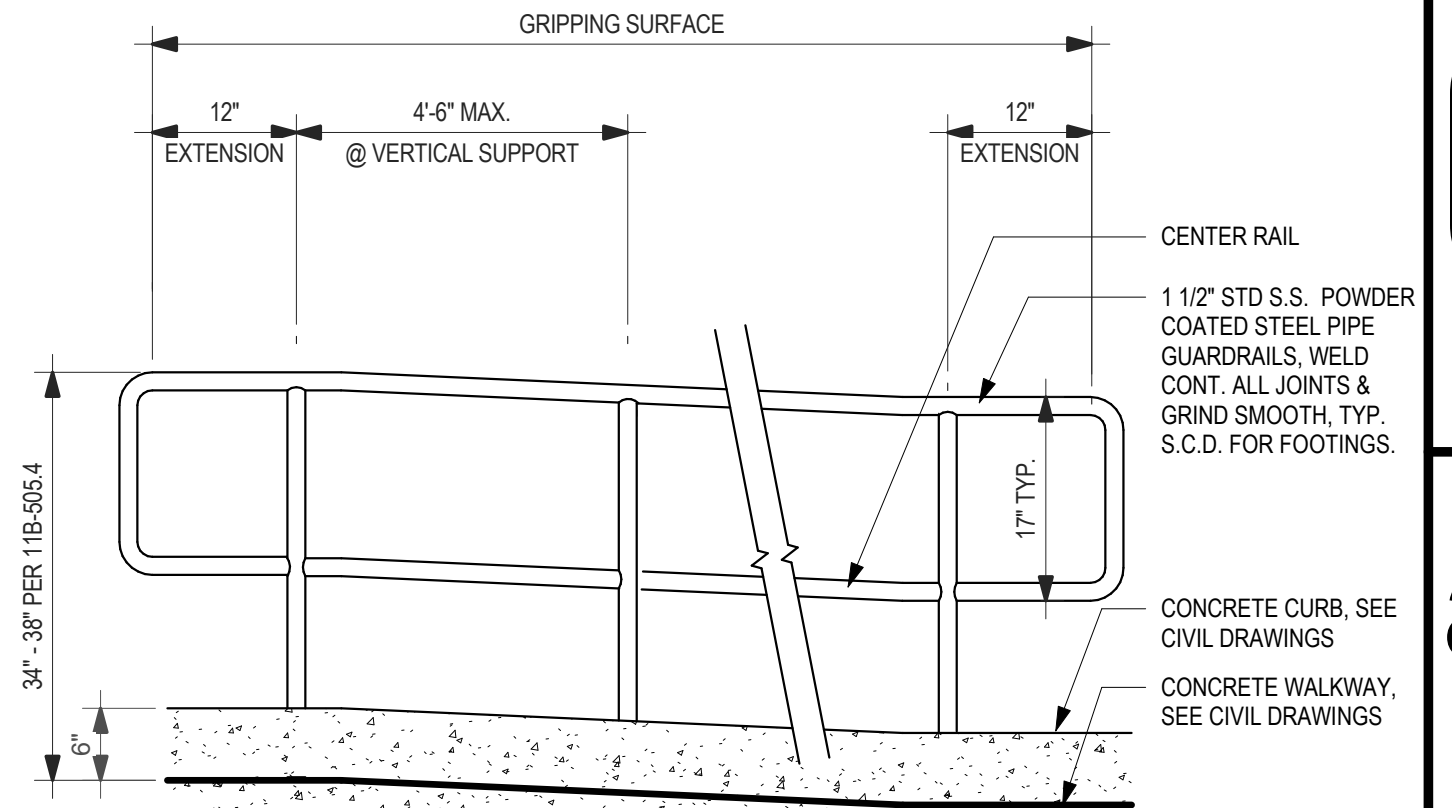
13 CONTROL JOINT (CJ)
SCALE: 1 1/2" = 1'-0"



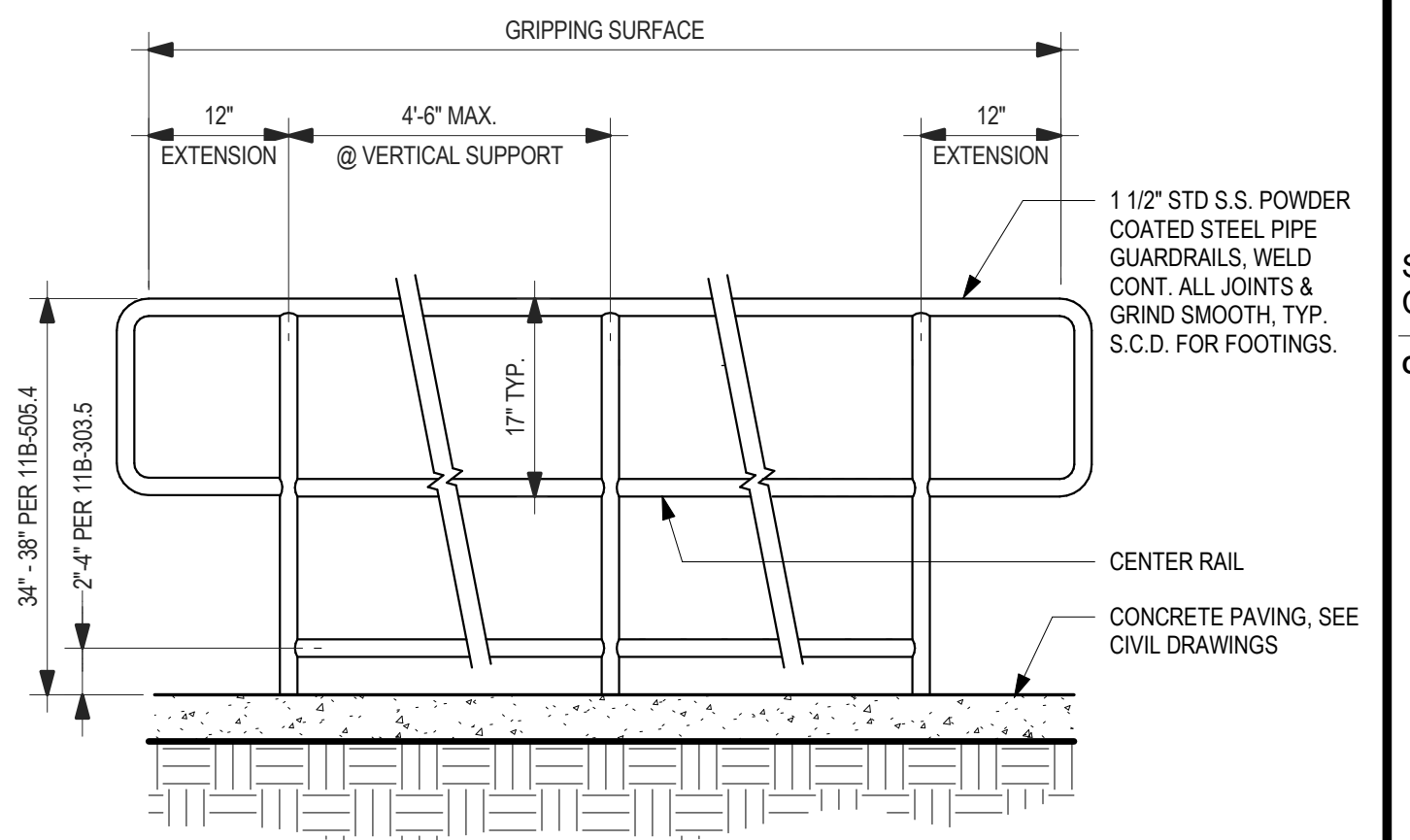
9 JUNCTION OF (E) CONCRETE TO (N) CONCRETE
SCALE: 1 1/2" = 1'-0"



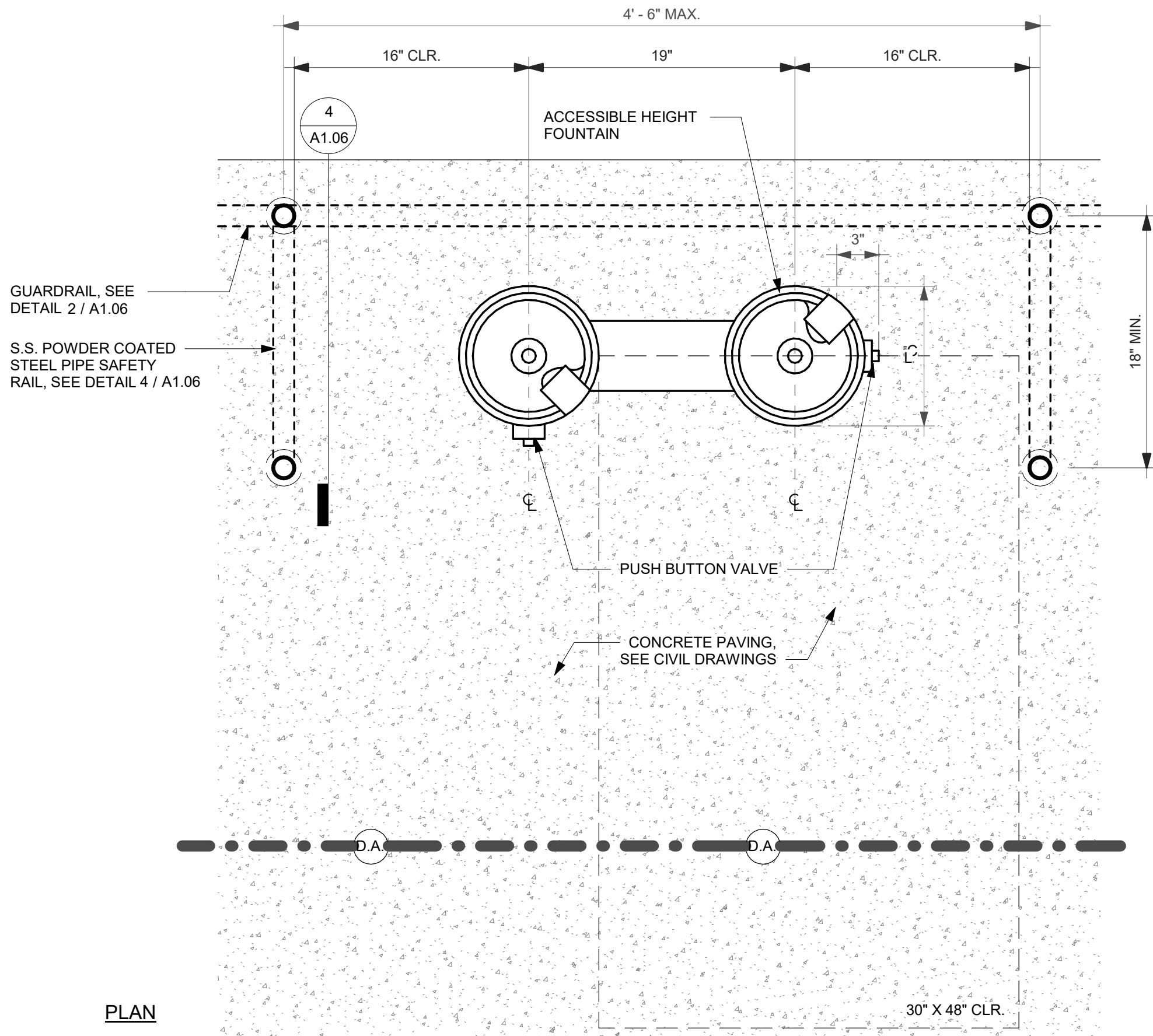
5 SLIP RESISTANT WARNING STRIP
SCALE: 1" = 1'-0"



1 GUARDRAIL @ CONCRETE WALKWAY
SCALE: 3/4" = 1'-0"



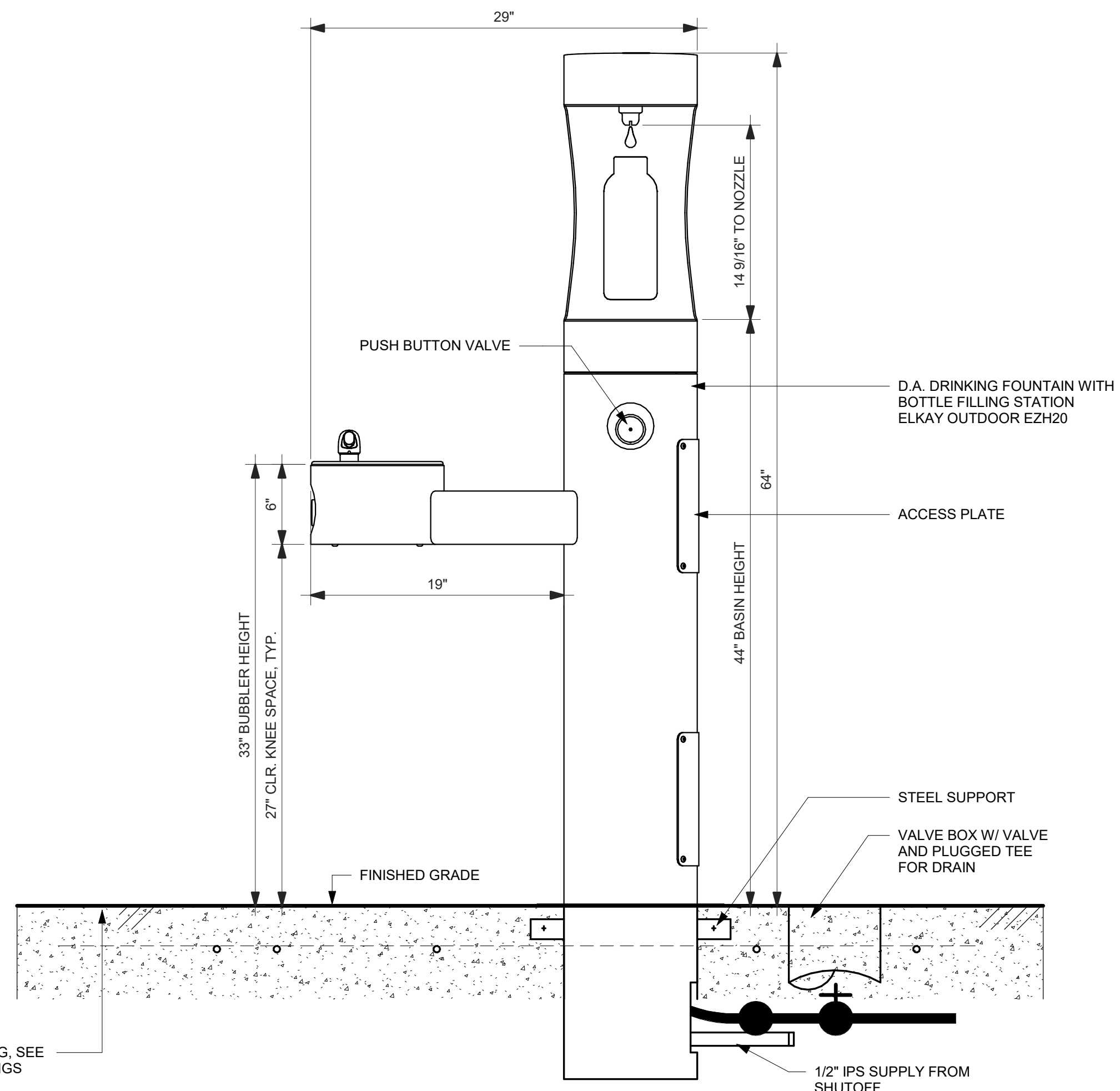
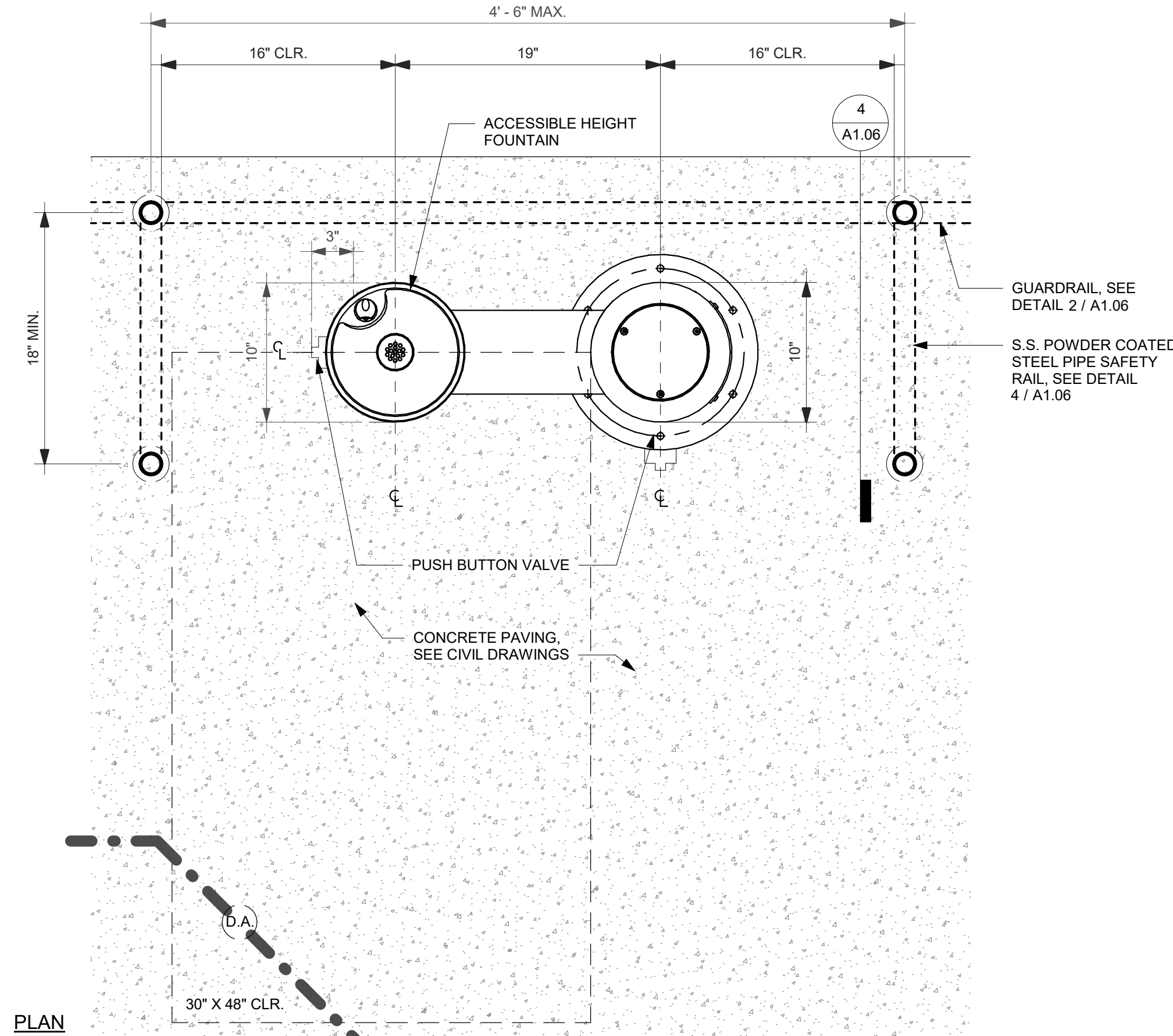
2 TYP. GUARDRAIL @ CONCRETE PAVING
SCALE: 3/4" = 1'-0"



NOTES:

1. REFER TO OPERATION AND MAINTENANCE MANUAL FOR PUSH BUTTON AND VALVE INSTALLATION / MAINTENANCE INSTRUCTIONS.
(NOTE: THIS FOUNTAIN UTILIZES A HIGH FLOW CARTRIDGE TO ENSURE PROPER WATER FLOW).

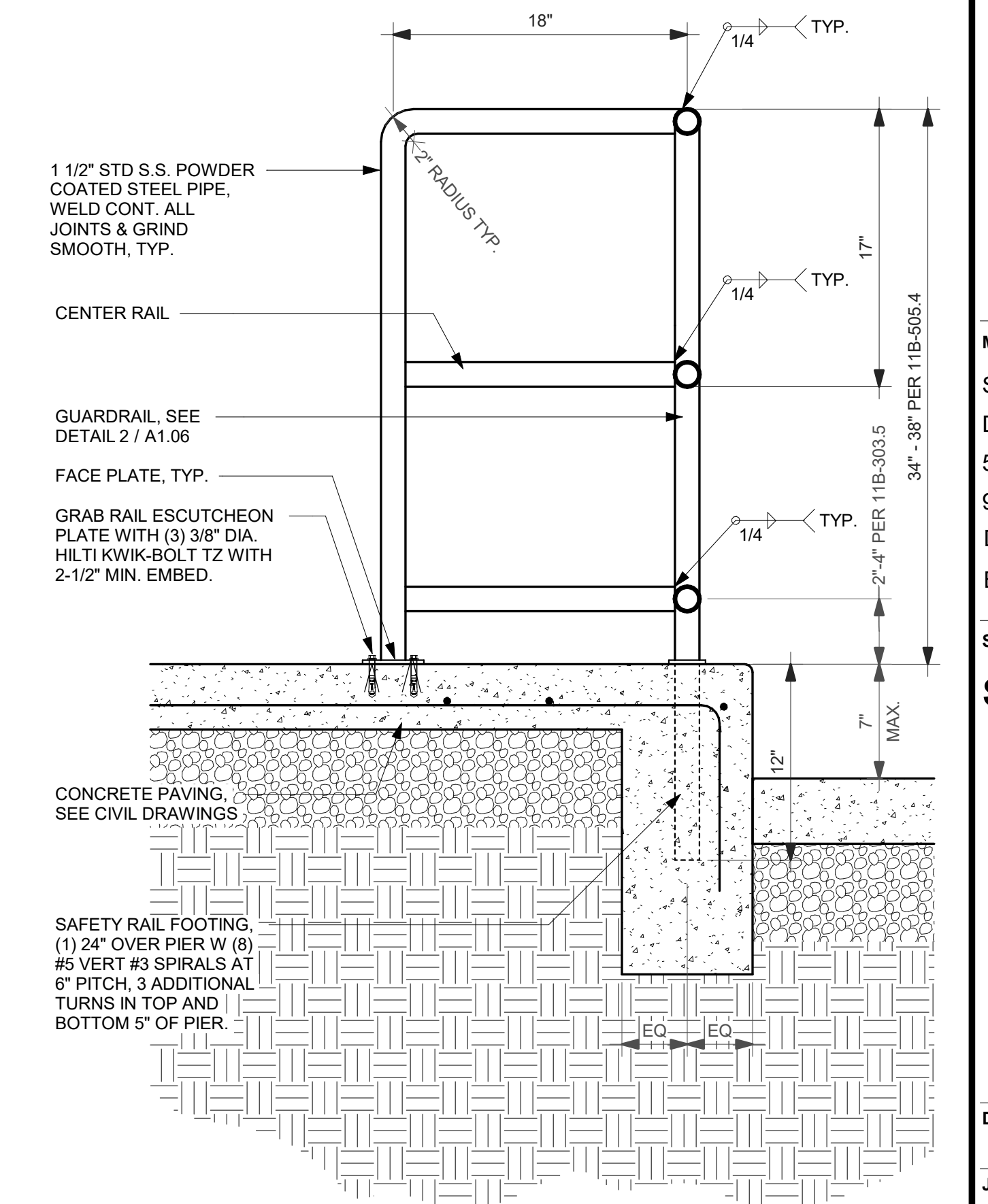
16 HI-LO DRINKING FOUNTAIN ON PEDESTAL ANCHORAGE
SCALE: 1 1/2" = 1'-0"



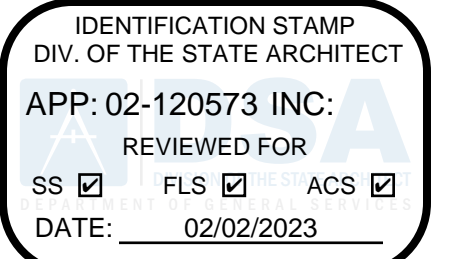
NOTES:

1. REFER TO OPERATION AND MAINTENANCE MANUAL FOR PUSH BUTTON AND VALVE INSTALLATION / MAINTENANCE INSTRUCTIONS.

8 HI-LO DRINKING FOUNTAIN W/ BOTTLE FILLER ON PEDESTAL ANCHORAGE
SCALE: 1 1/2" = 1'-0"



4 HI-LO DRINKING FOUNTAIN SAFETY RAIL
SCALE: 1 1/2" = 1'-0"



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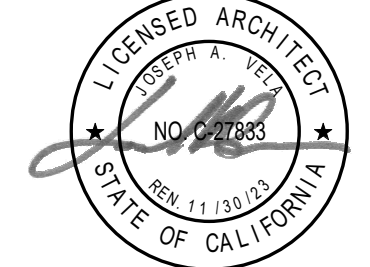
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FAIRFIELD POOL DECK
REPLACEMENT**



SOLANO
COMMUNITY COLLEGE
SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER 48-C1
APPL # 02-120573

REVISIONS

No.	Description	Date
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MILESTONES

SD	1.1.2022
DD	2.2.2022
50% CD	3.3.2022
90% CD	4.4.2022
DSA SUB	10.6.2022
BACK CHECK SUB	12.15.2022

SHEET

SITE DETAILS

DATE 12.15.2022

JOB # 2022013

SHEET #

A1.06

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SHEET NOTE

SPECIAL INSPECTION EXEMPTIONS

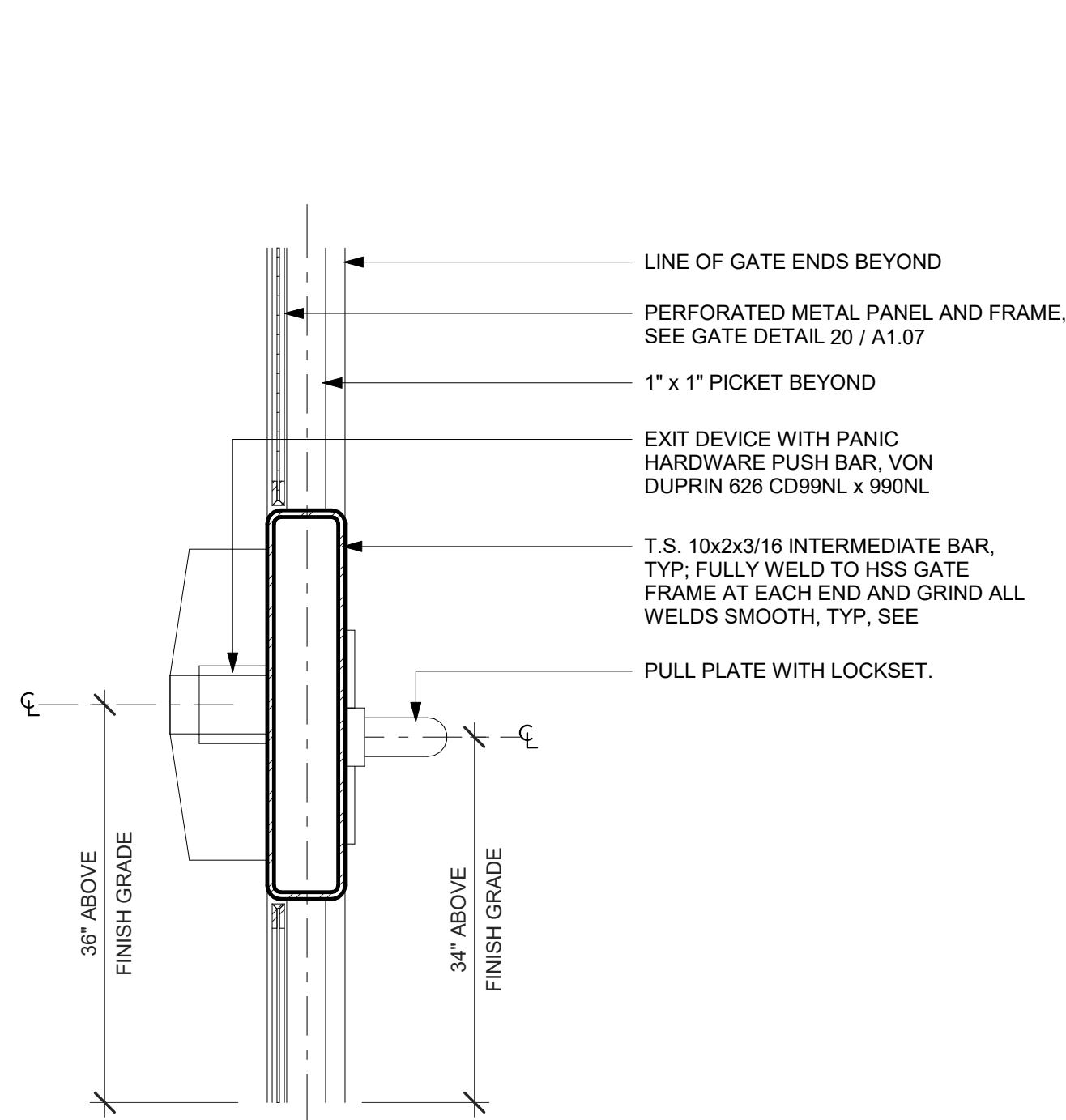
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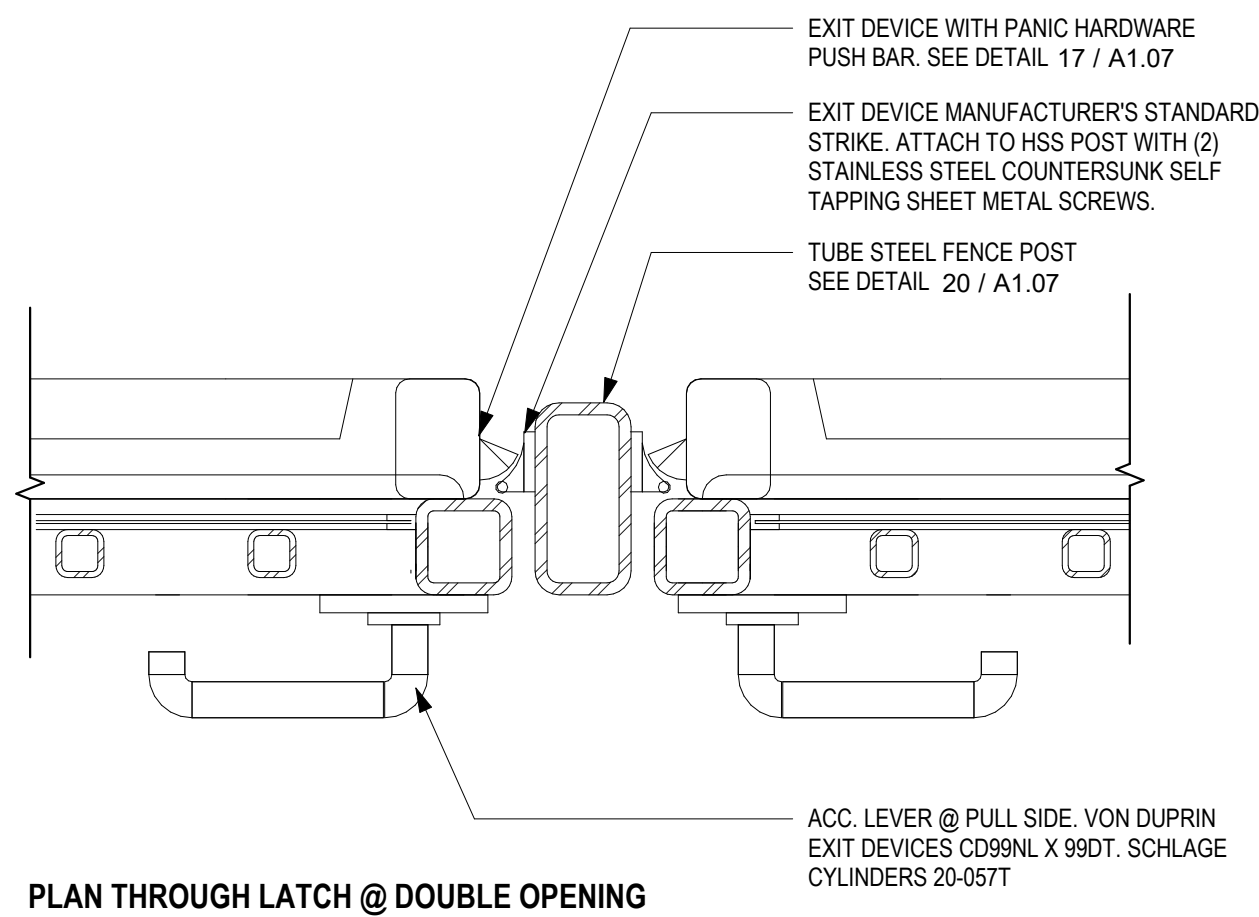
1. FLATWORK

2. UNENCLOSED SITE STRUCTURES, INCLUDING BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS.

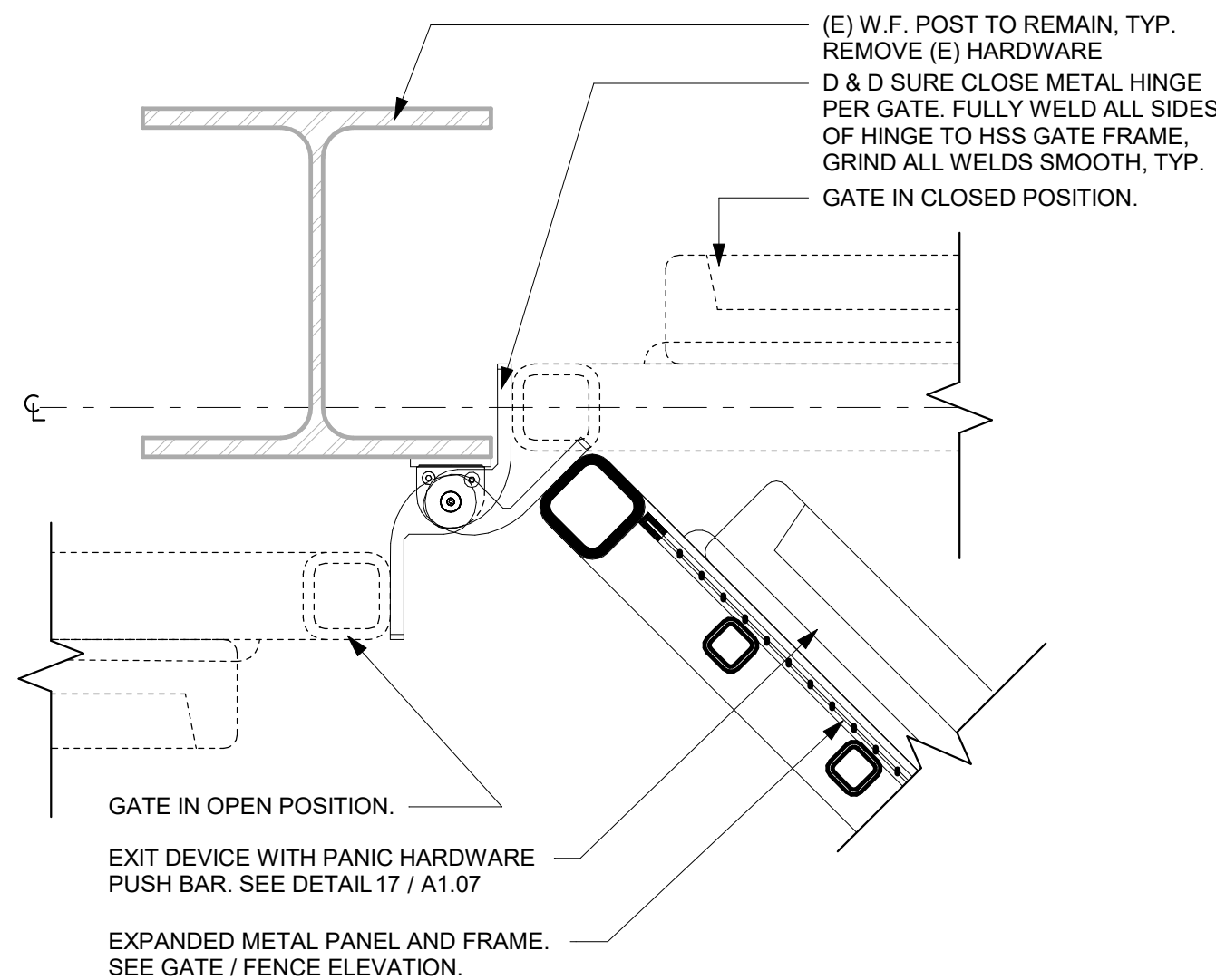
2 - HANDRAILS AND GUARDRAILS AND RAMPS LESS THAN 30 DEG TO HORIZONTAL SUBGRADE



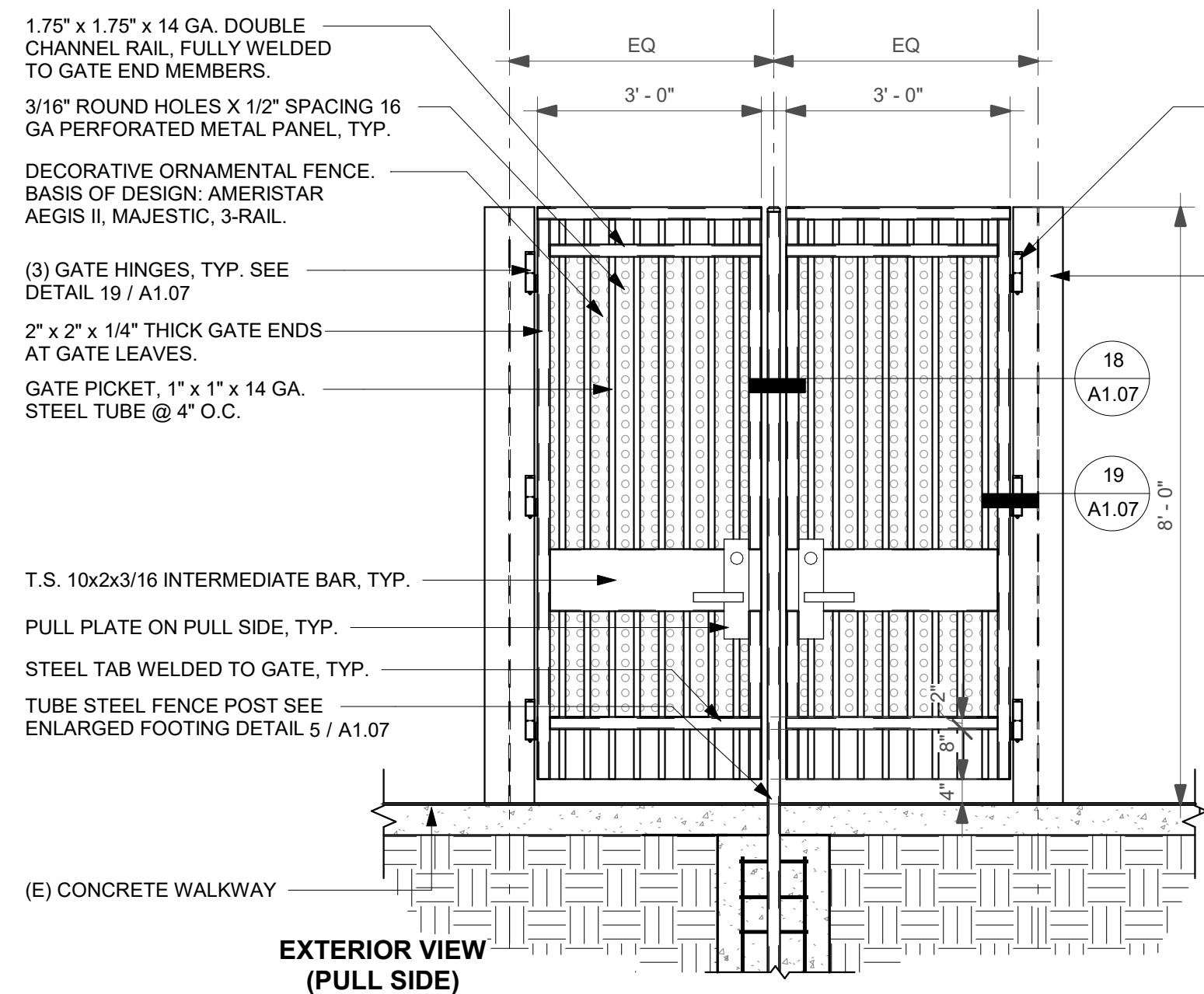
17 SECTION THROUGH PANIC PUSH BAR AT ORNAMENTAL GATE
SCALE: 3" = 1'-0"



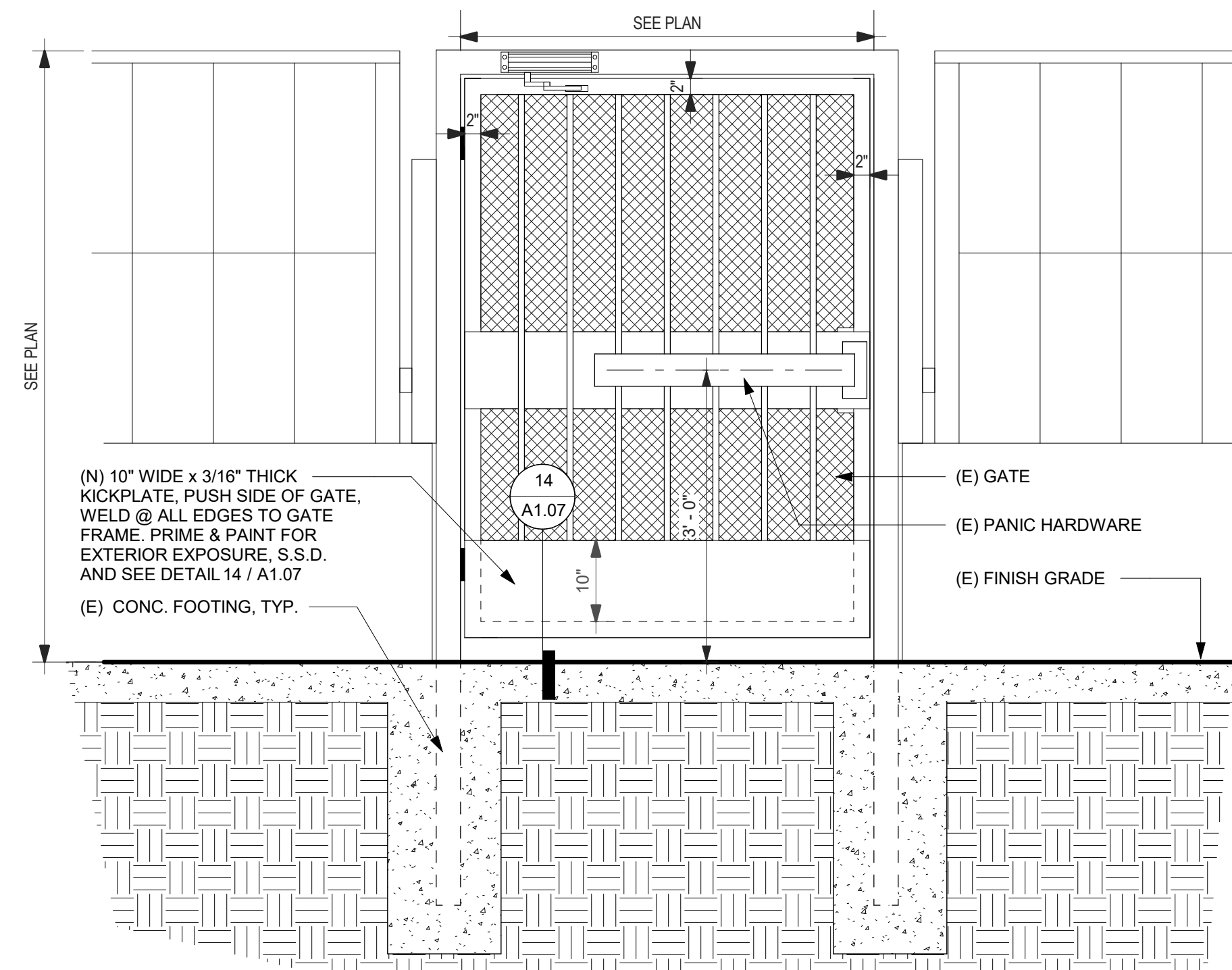
18 ORNAMENTAL GATE STRIKE ALL
SCALE: 3" = 1'-0"



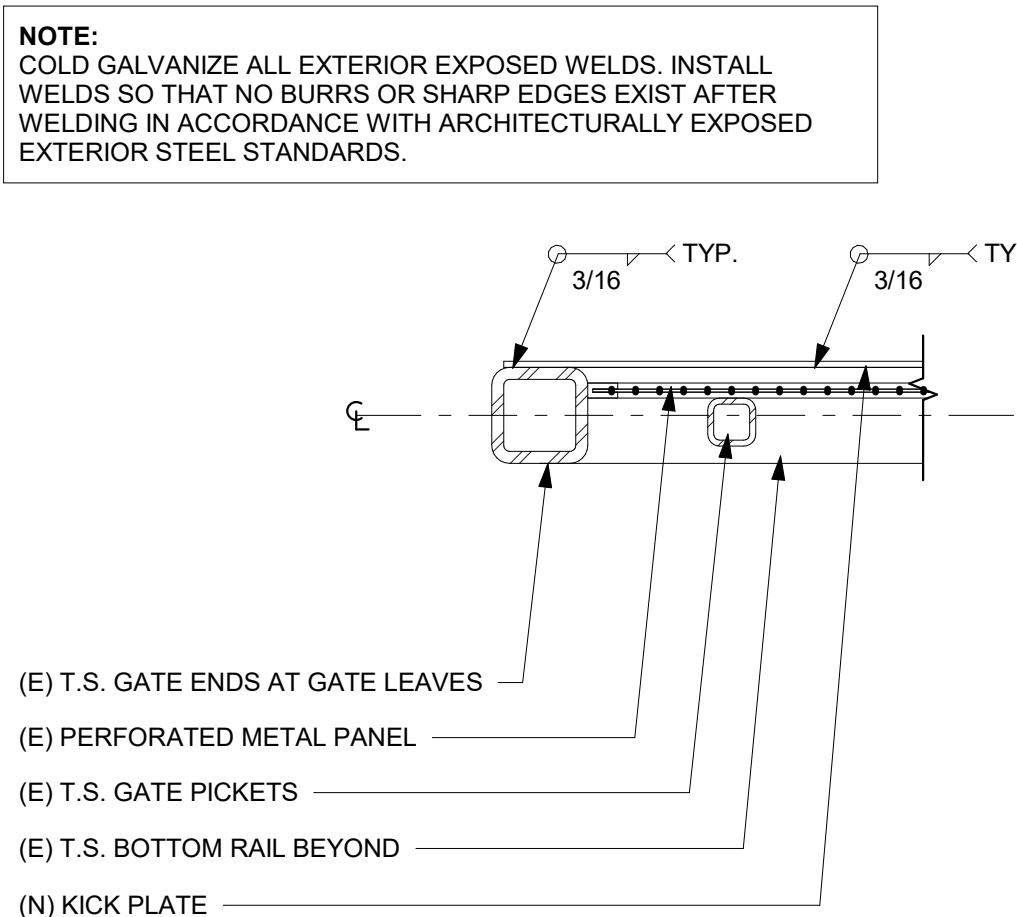
19 ORNAMENTAL GATE HINGE DETAIL
SCALE: 3" = 1'-0"



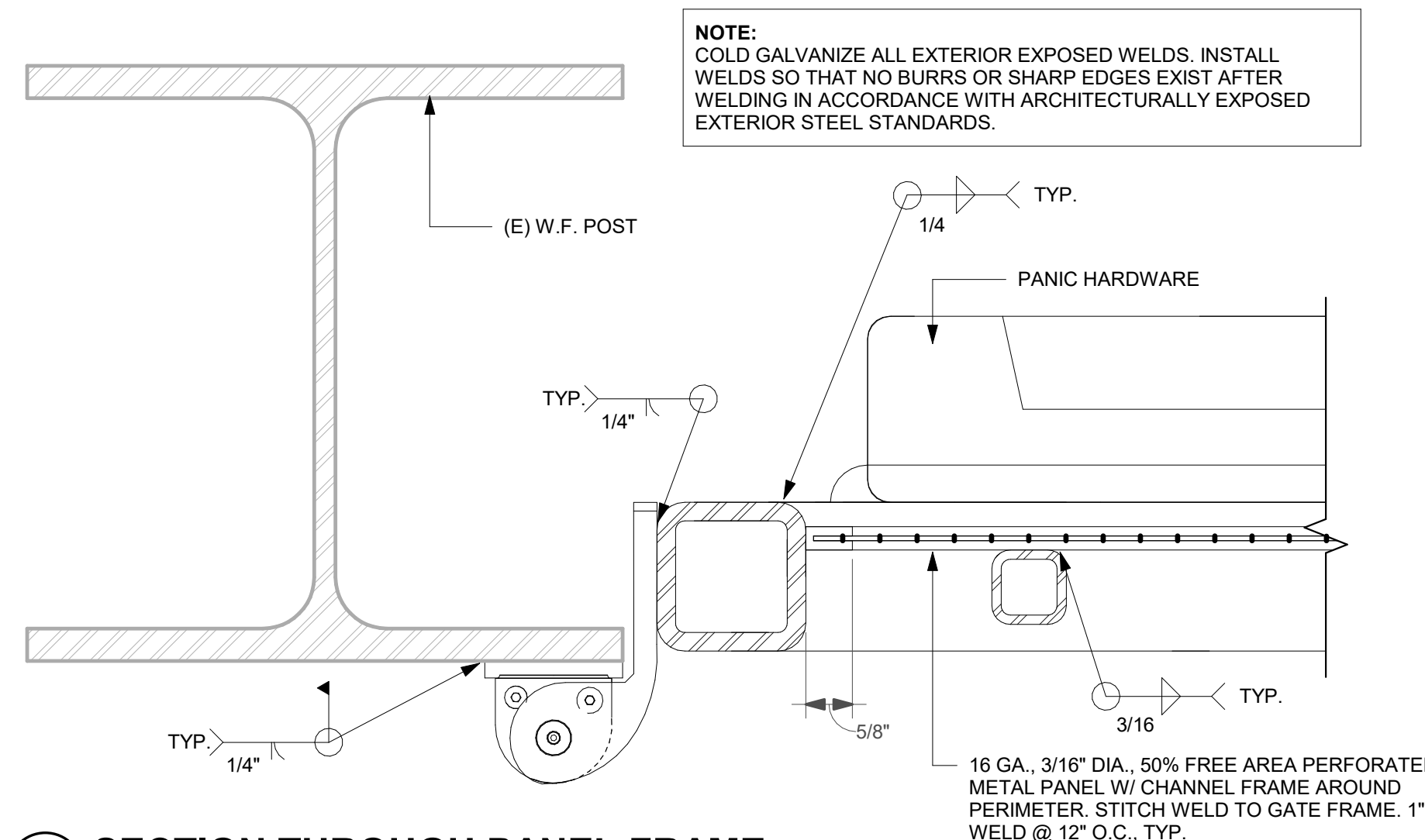
20 ORNAMENTAL GATES
SCALE: 1/2" = 1'-0"



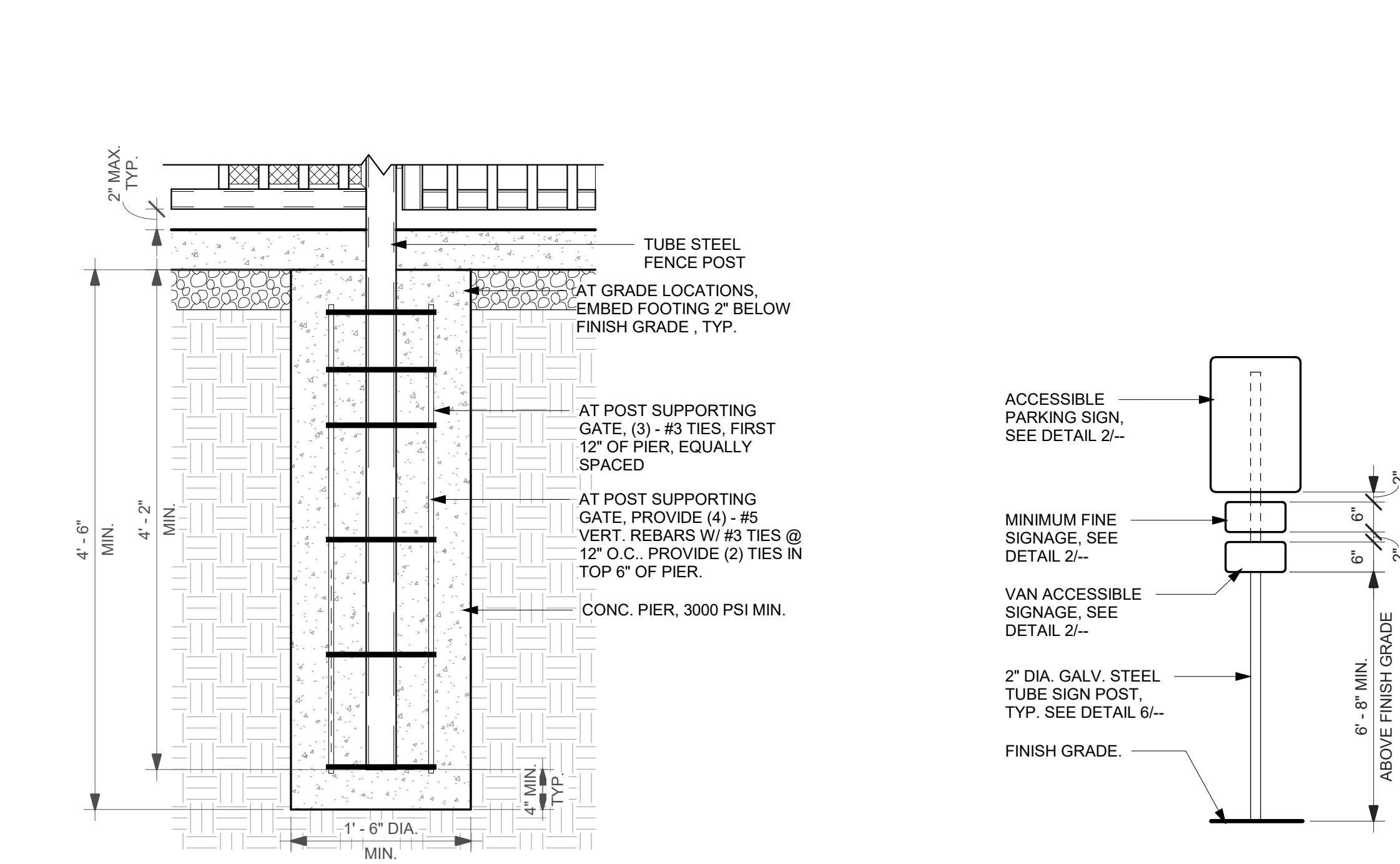
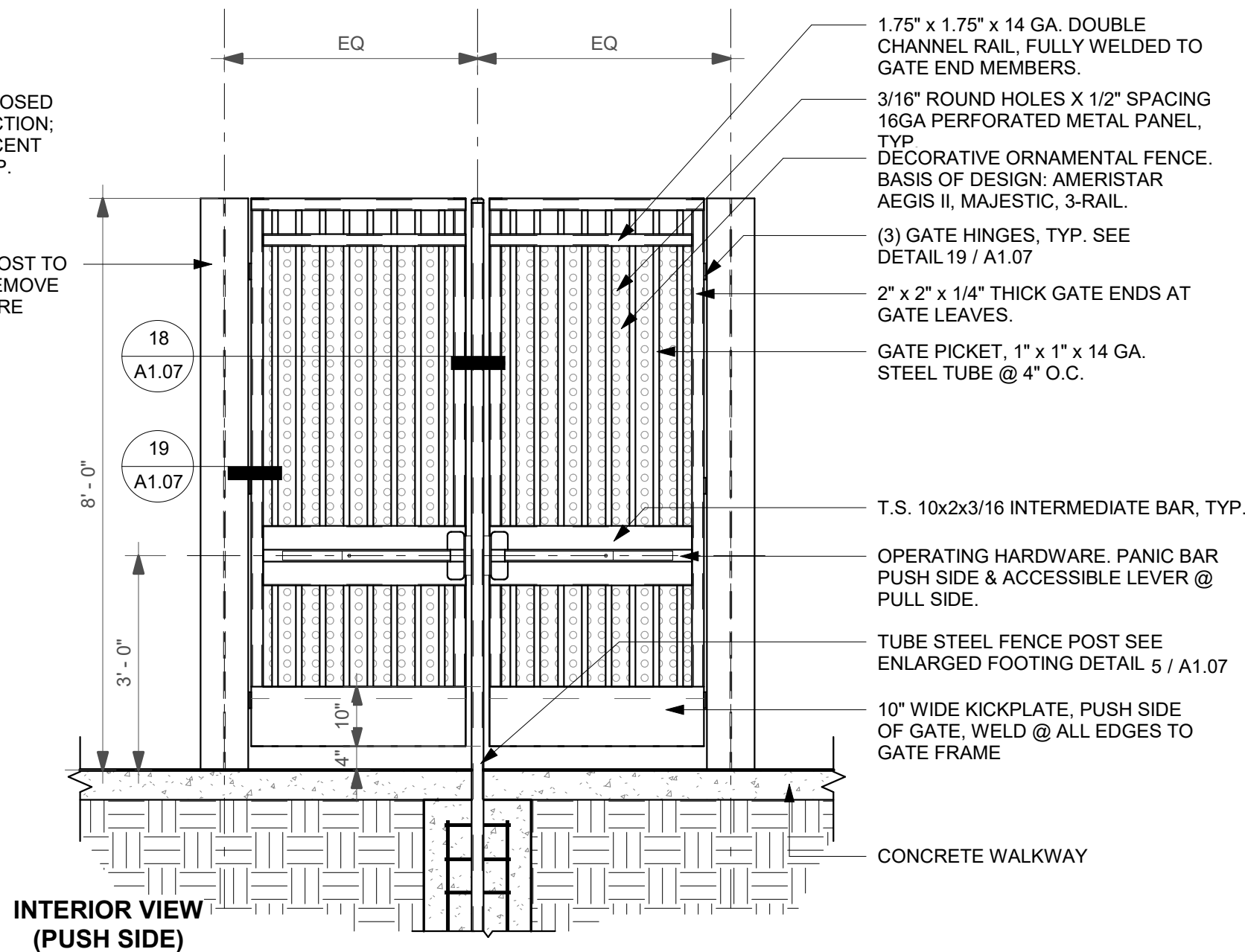
13 OUTSIDE ELEVATION @ SINGLE GATE ENTRY
SCALE: 3/4" = 1'-0"



14 SECTION THROUGH KICK PLATE
SCALE: 3" = 1'-0"

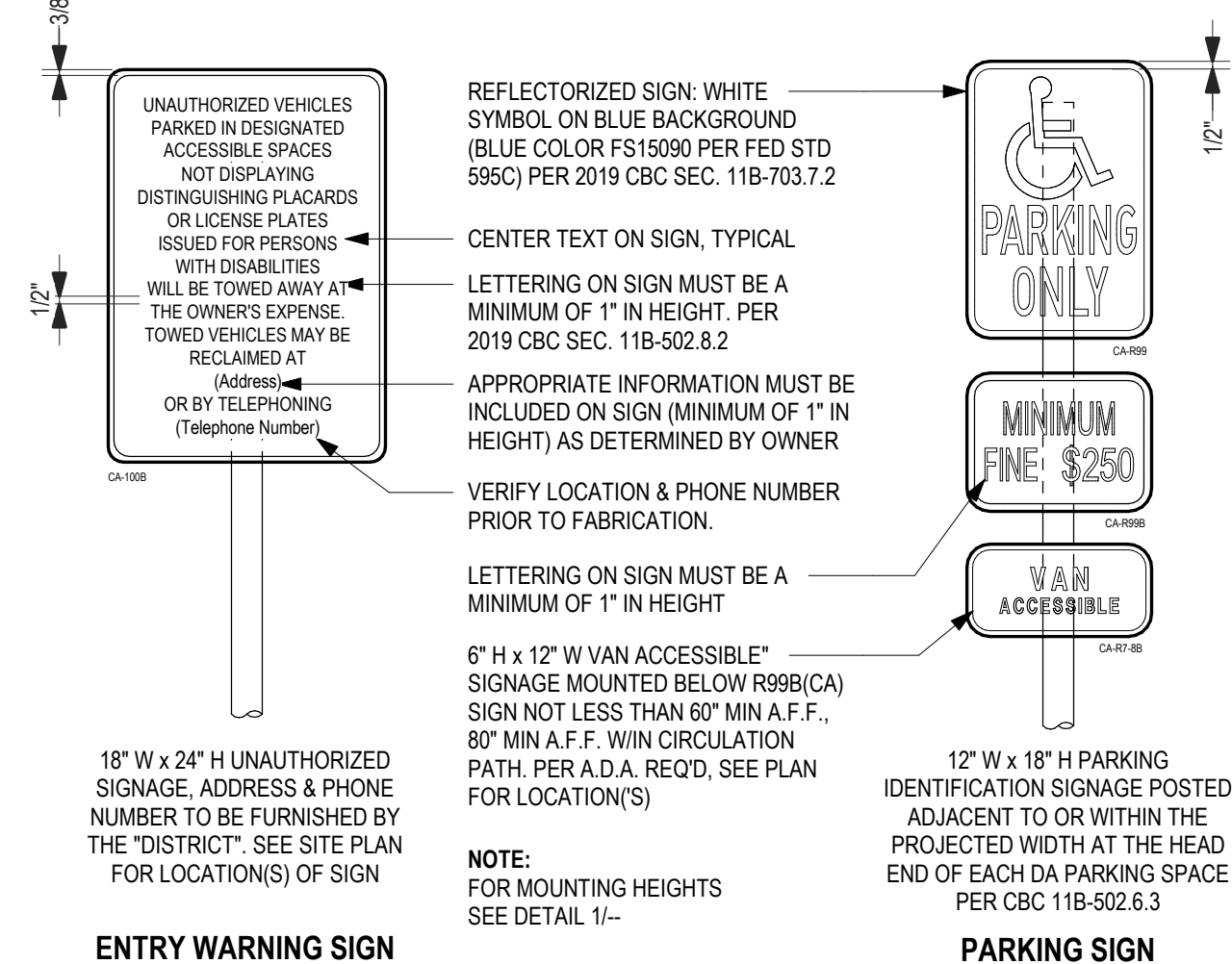


15 SECTION THROUGH PANEL FRAME
SCALE: 6" = 1'-0"



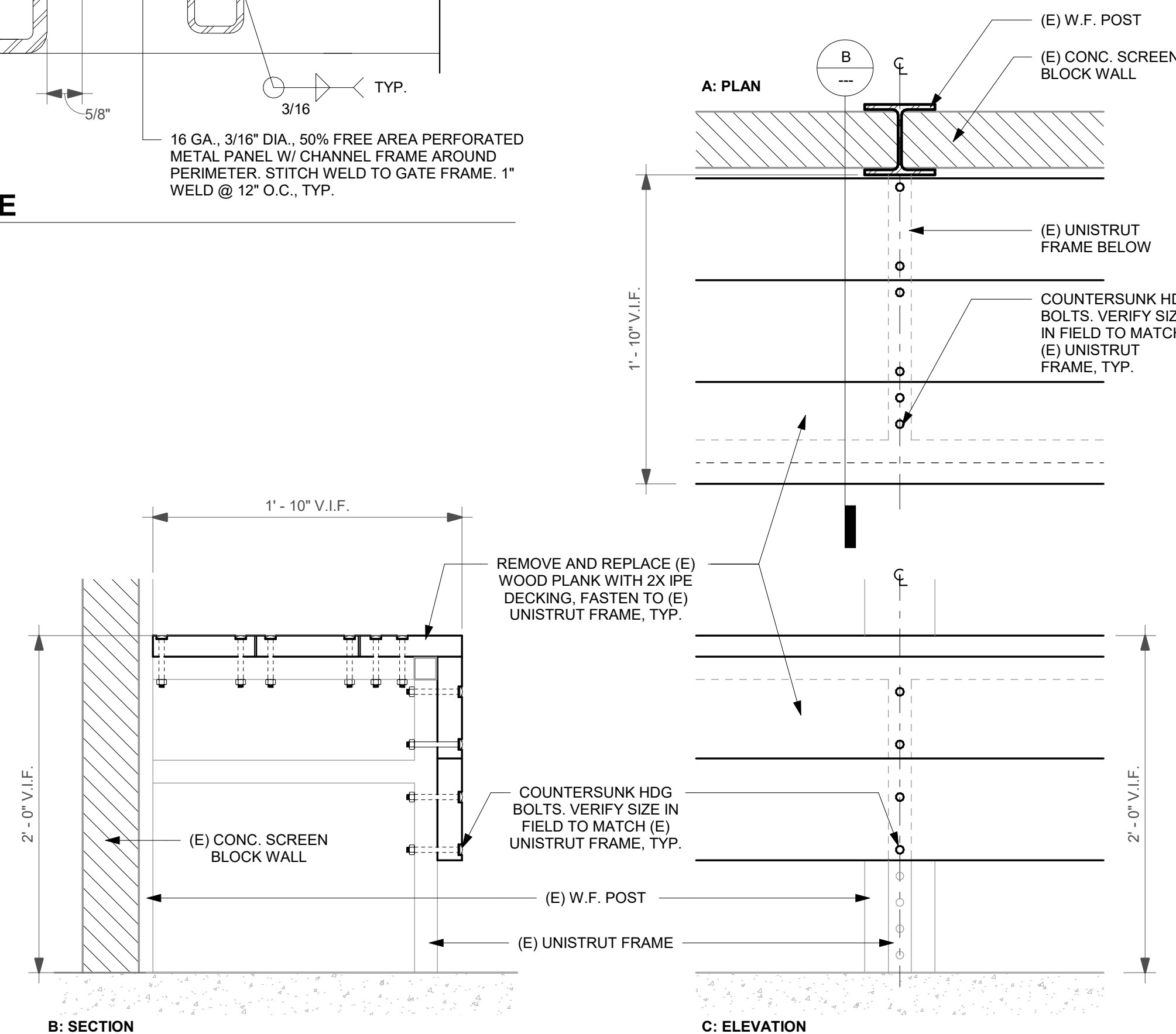
5 TYPICAL ORNAMENTAL FENCE FOOTING
SCALE: 1" = 1'-0"

1 SITE SIGN MOUNTING
SCALE: 1/2" = 1'-0"



6 SITE SIGN FOOTING DETAIL
SCALE: 1" = 1'-0"

2 ACCESSIBLE PARKING SIGNS
SCALE: 1" = 1'-0"



8 UTILITY PIPE COVER DETAIL
SCALE: 1 1/2" = 1'-0"



No.	Description	Date
△		

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DSA SUB	10.6.2022
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SITE DETAILS

SHEET #

A1.08



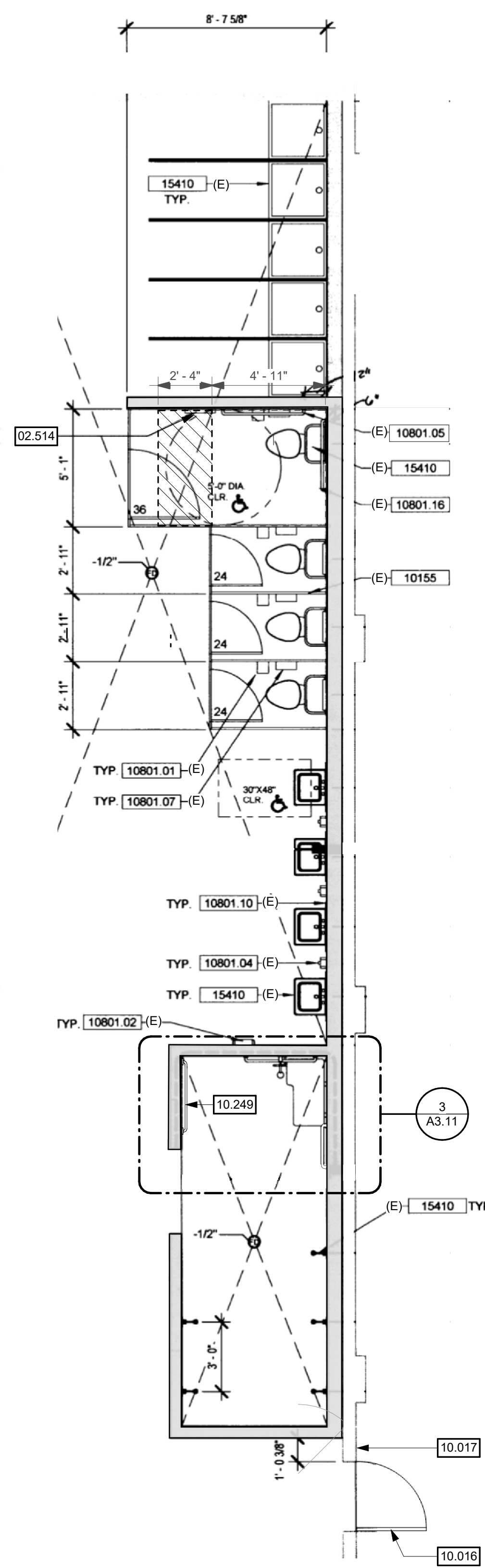
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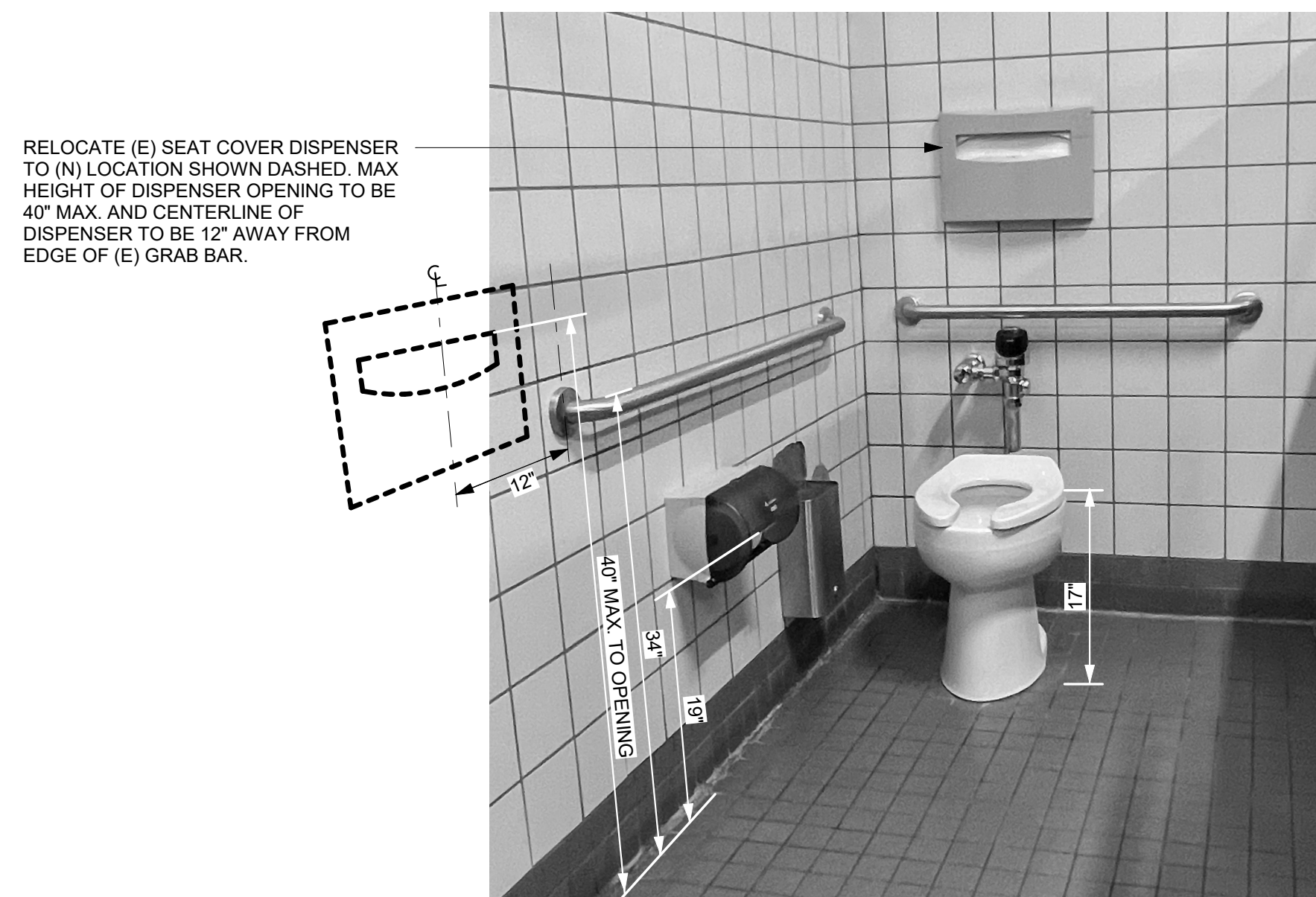
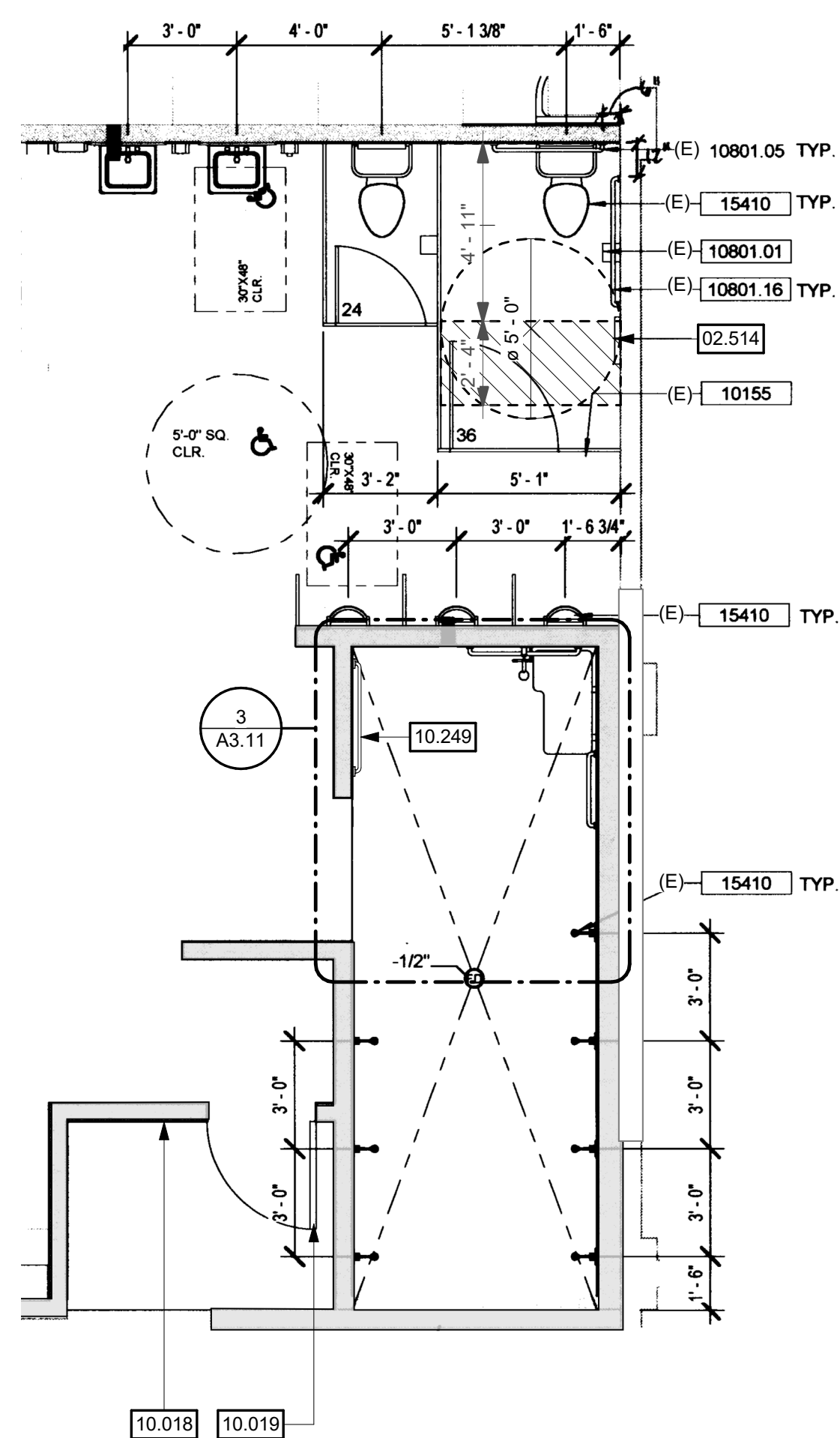
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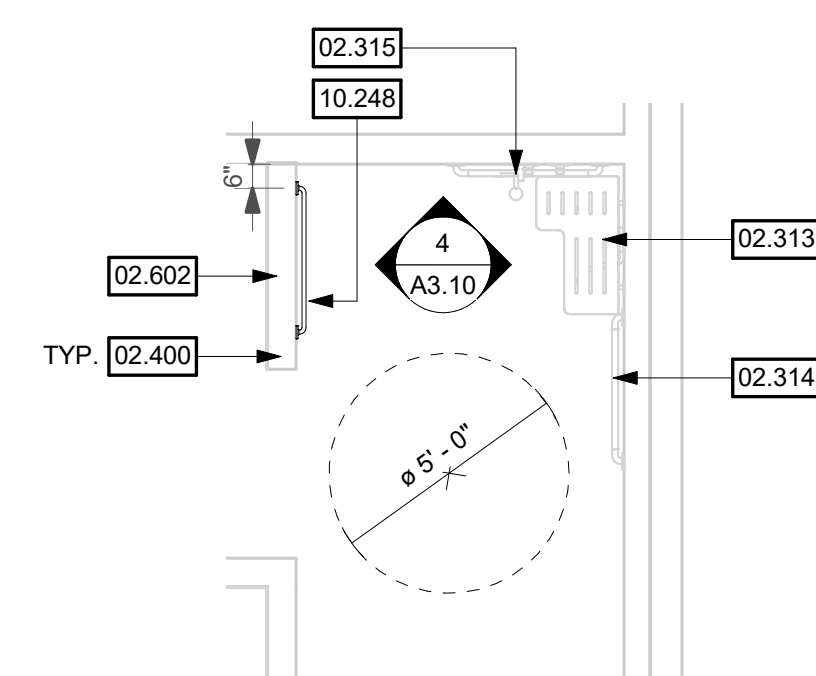
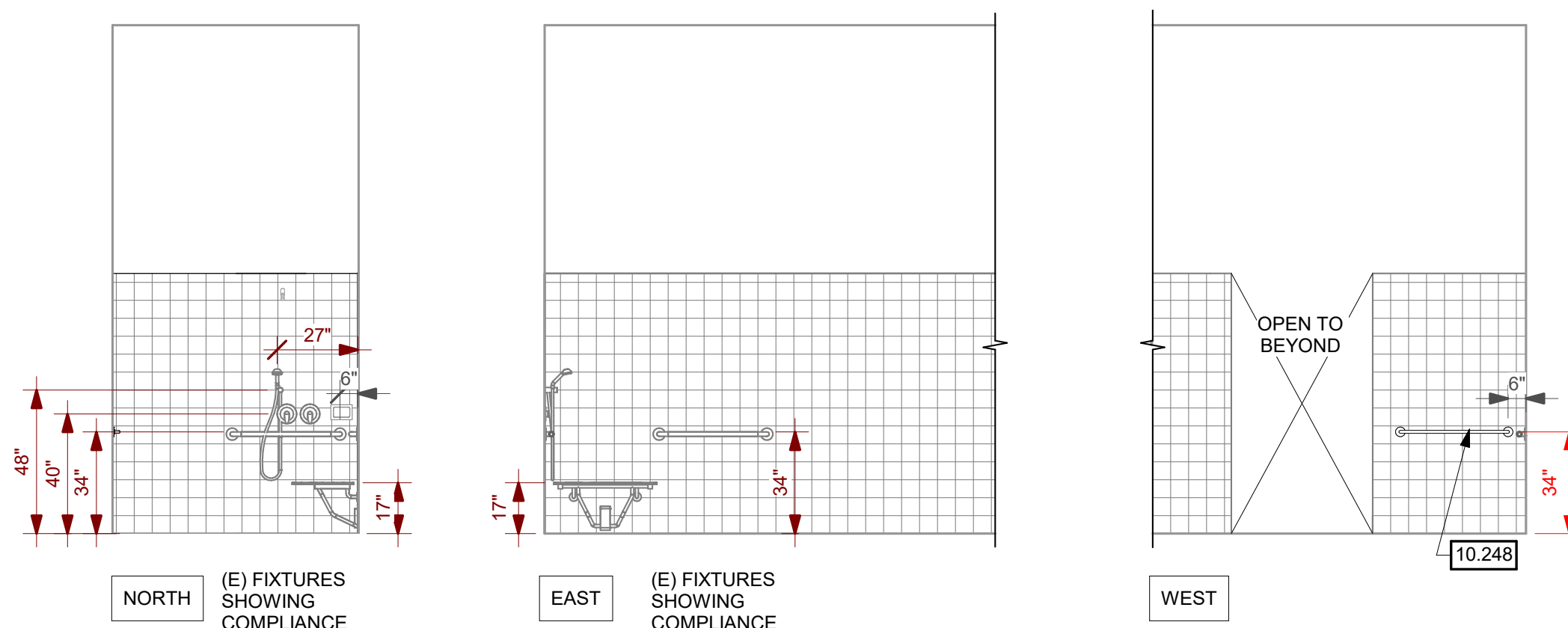


KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
10155	TOILET COMPARTMENT
10001.01	TOILET TISSUE DISPENSER
10001.02	PAPER TOWEL DISPENSER
10001.04	LIQUID-SOAP DISPENSER
10001.05	GRAB BAR-36"
10001.07	SANITARY WIPEN/DISPOSAL UNIT
10001.08	SEAT-COVER DISPENSER
10001.10	MIRROR UNIT
10001.16	GRAB BAR-48"
5410	FLUMMING FIXTURE

NOTE: ALL ITEMS IN THE KEYNOTE LEGEND ARE EXISTING AND IDENTIFIED AS (E) ON THE PLAN.



ACCESSIBLE WATER CLOSET WOMEN RESTROOM, MEN RESTROOM REVERSE HAND



GENERAL SHEET NOTES

- | | |
|---|--|
| A | PROVIDE WALL BLOCKING AT NEW GRAB BAR IN MEN AND WOMEN ADA SHOWER PER DETAIL 8/A1.05 |
| B | FOR SHOWER STALL FIXTURE MOUNTING HEIGHTS, SEE FIXTURE MOUNTING HEIGHTS @ ACCESSIBLE SHOWER STALL DETAIL |
| C | WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP. |
| D | ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N. |

ENLARGED RESTROOM PLAN KEYNOTES

- | | |
|--------|--|
| 02.313 | (E) SHOWER BENCH TO REMAIN |
| 02.314 | (C) GRAB BAR TO REMAIN, TYP. |
| 02.315 | (E) PLUMBING FIXTURE TO REMAIN, TYP. |
| 02.400 | (E) WALL |
| 02.514 | RELOCATE (E) TOILET SEAT COVER DISPENSER AS SHOWN IN DETAIL 3, A/3.10 |
| 02.602 | REMOVE PORTION OF SHEETROCK TO INSTALL BLOOMING PER DETAIL 8, A/1.05 |
| | REPAIR AND PAINT TO MATCH |
| 10.016 | REPLACE (E) DOOR SYMBOL PER TYPICAL SIGNAGE TYPE 4a, DETAIL 3/A1.05 |
| 10.017 | REPLACE (E) ROOM SIGNAGE PER TYPICAL SIGNAGE TYPE 5, DETAIL 3/A1.05 |
| 10.018 | REPLACE (E) ROOM SIGNAGE PER TYPICAL SIGNAGE TYPE 7, DETAIL 3/A1.05 |
| 10.019 | REPLACE (E) DOOR SYMBOL PER TYPICAL SIGNAGE TYPE 6a, DETAIL 3/A1.05 |
| 10.248 | 30" STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR, SEE ANCHORAGE DETAIL 8, A/1.05 |
| 10.249 | 30" STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR, SEE ENLARGED ADA SHOWER PLAN |

aedis
architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT

**SOLANO**
COMMUNITY COLLEGE

CONSULTANT

STAMP



STATE

DSA FILE NUMBER	48-C1
APPL #	02-120573

REVISIONS

No.	Description	Date
		

MILESTONES

SD	1.1.2022
DD	2.2.2022
50% CD	3.3.2022
90% CD	4.4.2022
DSA SUB	10.6.2022
BACK CHECK SUB	12.15.2022

SHEET

**ENLARGED
RESTROOM PLANS
& ELEVATIONS -
BLDG 1700A**

DATE 12.15.2022

JOB # 2022013

SHEET #

A3.10

DRAWING NOTES

- 15 CHAIR - TYP.

16 HAND DRYER - S.P.D.

17 FLOOR DRAIN S.P.D.

18 WIRE LOCKER - SEE DETAIL 15A/17

19 BALL STORAGE RACKS - N.G.

20 FLOOR SINK - S.P.D.

21 MEGHANSAL UNIT - S.M.D.

22 FLOOR SINK - S.P.D.

23 ACCESSIBLE WATER CLOSET - S.P.D.

24 ACCESSIBLE LAVATORY - S.P.D.

25 ACCESSIBLE URINAL - S.P.D.

26 WATER CLOSET - S.P.D.

27 LAVATORY - S.P.D.

28 URINAL - S.P.D.

29 TOILET PARTITION

30 TOILET PAPER DISPENSER

31 GRAB BAR

32 GRAB BAR

33 SOAP DISPENSER

34 MIRROR LINE

35 CLEAT CLEANER

36 FIRE ALARM CONTROL PANEL - SEE FIRE ALARM DRAWINGS

37 ELECTRIC OUTLET PANEL - TYP.

38 SIGNS - SIGNAGE - CARPES MODULAR - MANUFACTURER - INCREMENT 40

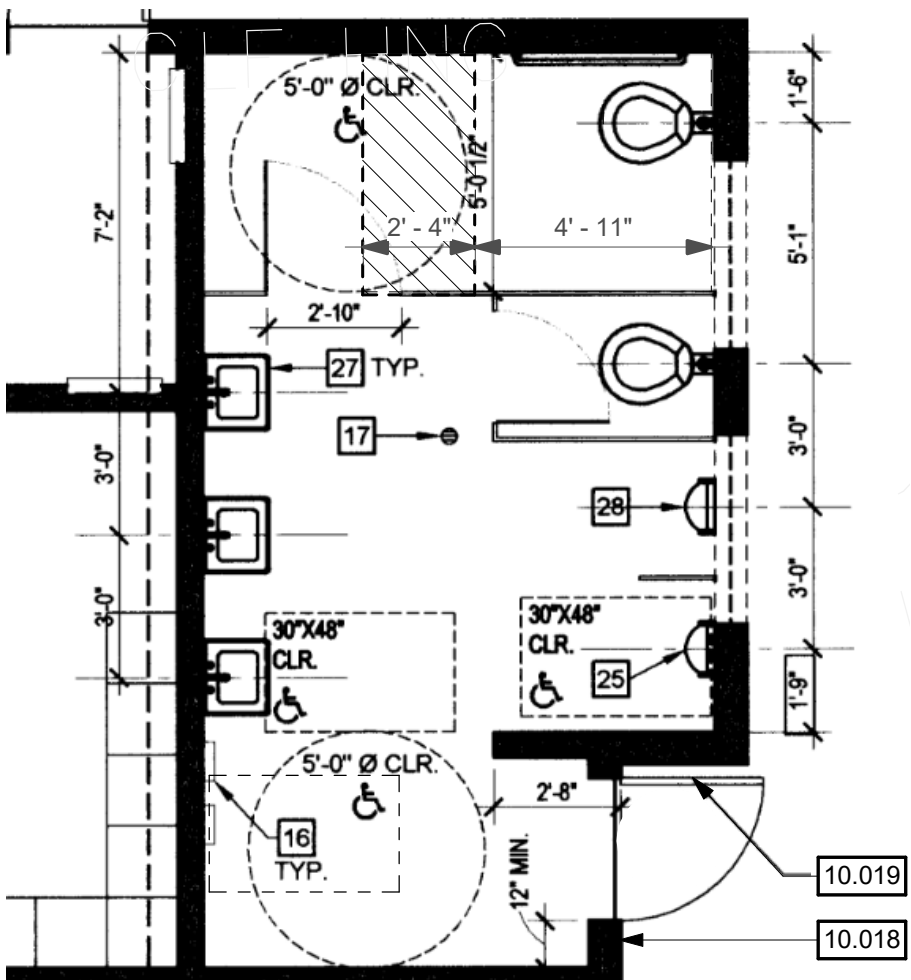
39 LAD WALL CONSTRUCTION - SEE DETAIL 15A/17

40 TACTILE EXIT SIGNAGE - SEE DETAIL 15A/17

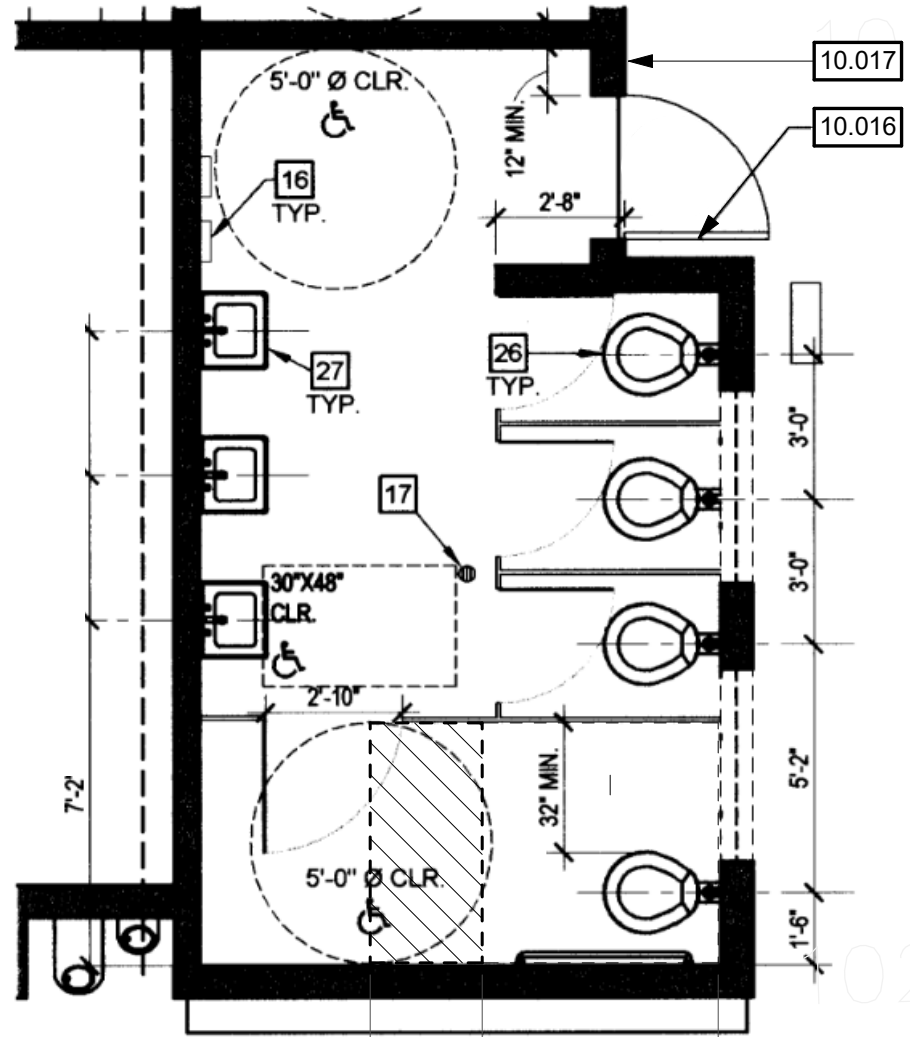
41 ALL ENT DOORS

42 TOILET ROOM IDENTIFYING SYMBOLS - SEE DETAIL 15A/17

43 TOILET ROOM IDENTIFYING SYMBOLS - SEE DETAIL 15A/17



MEN'S RESTROOM



WOMEN'S RESTROOM



ACCESSIBLE WATER CLOSET



ACCESSIBLE URINAL



LAVATORIES



PAPER TOWEL DISPENSER

GENERAL SHEET NOTES

- A WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

ENLARGED PLAN KEYNOTES

- 10.016

10.017

10.018

10.019
- REPLACE (E) DOOR SYMBOL PER TYPICAL SIGNAGE TYPE 4a, DETAIL 3/A1.05

REPLACE (E) ROOM SIGNAGE PER TYPICAL SIGNAGE TYPE 5, DETAIL 3/A1.05

REPLACE (E) ROOM SIGNAGE PER TYPICAL SIGNAGE TYPE 7, DETAIL 3/A1.05

REPLACE (E) DOOR SYMBOL PER TYPICAL SIGNAGE TYPE 6a, DETAIL 3/A1.05

1 ENLARGED FLOOR PLAN - 1713B MEN'S & 1714B WOMEN'S
SCALE: 1/4" = 1'-0"

(E) RESTROOM, DSA # 02-108713, LAYOUT PROVIDED TO SHOW COMPLIANCE WITH CURRENT CODE, CBC 2019. SCOPE OF WORK IS LIMITED TO SIGNAGE REPLACEMENT.

2 TYP. RESTROOM - (E) MOUNTING HEIGHTS
SCALE: 1" = 1'-0"

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DATE: 02/02/2023

aedis
architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

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FAIRFIELD POOL DECK
REPLACEMENT



SOLANO
COMMUNITY COLLEGE
SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

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DSA FILE NUMBER 48-C1
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50% CD	3.3.2022
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DSA SUB	10.6.2022
BACK CHECK SUB	12.15.2022

SHEET

ENLARGED
RESTROOM PLANS
& ELEVATIONS -
BLDG 1700B

DATE 12.15.2022

JOB # 2022013

SHEET #

A3.11



IX. Exempt Structural Tests/Special Inspections:

SOILS:	
<input type="checkbox"/>	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
<input type="checkbox"/>	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.
CONCRETE/MASONRY:	
<input checked="" type="checkbox"/>	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
<input checked="" type="checkbox"/>	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
<input type="checkbox"/>	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
<input checked="" type="checkbox"/>	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
<input checked="" type="checkbox"/>	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.
Welding:	
<input type="checkbox"/>	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
<input checked="" type="checkbox"/>	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
<input type="checkbox"/>	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
<input checked="" type="checkbox"/>	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
<input checked="" type="checkbox"/>	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
<input type="checkbox"/>	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
<input type="checkbox"/>	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ±4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

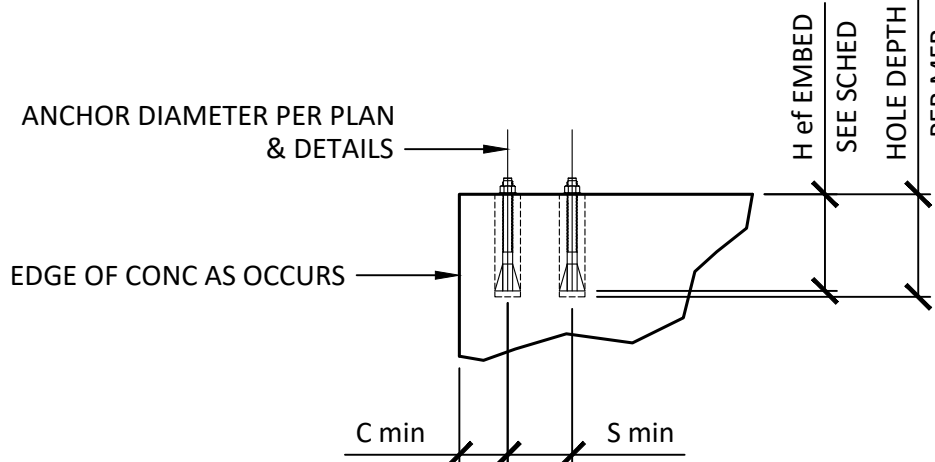
IX. Abbreviations:

ADDNL	ADDITIONAL	GLB	GLU-LAM BEAM
AB	ANCHOR BOLT	HA	HEADED ANCHOR
ARCH	ARCHITECTURAL	H	HIGH
ATR	ALL THREAD ROD	HSB	HIGH STRENGTH BOLT
BETW	BETWEEN	HSS	HOLLOW STRUCTURAL STEEL
BEV	BEVELLED	HORIZ	HORIZONTAL
BLKG	WOOD BLOCKING	KD	KILN DRIED
BM	BEAM	LLH	LONG LEG HORIZONTAL
BOT	BOTTOM	LLV	LONG LEG VERTICAL
BRG	BEARING	LS	LAG SCREW
CLR	CLEAR	LVL	LAMINATED VENEER LUMBER
CL	CENTERLINE	MANUF	MANUFACTURER
OC	ON CENTER	MAX	MAXIMUM
CMU	CONC. MASONRY UNIT	MB	MACHINE BOLT
COL	COLUMN	MECH	MECHANICAL
CONC	CONCRETE	MFRD	MANUFACTURED
CONSTR JT	CONSTRUCTION JOINT	MIN	MINIMUM
CONT	CONTINUOUS	(N)	NEW
CONTROL JOINT		NTS	NOT TO SCALE
CS	CARBON STEEL	OC	ON CENTER
db	BAR DIAMETER	OH	OPPOSITE HAND
DIA	DIAMETER	OPNG	OPENING
DIM	DIMENSION	PL	PLATE
DN	DOWN	RDWOOD	REDWOOD
DO	DITTO (REPEAT)	REINF	REINFORCING
DT	DRAG TRUSS	REQD	REQUIRED
(E)	EXISTING	REQMTS	REQUIREMENTS
EA	EACH	SST	SIMPSON STRONG-TIE
EE	EACH END	SAD	SEE ARCHITECTURAL DWGS
EF	EACH FACE	SIM	SIMILAR
EJ	EXPANSION JOINT	SOG	SLAB ON GRADE
EL (ELEV)	ELEVATION	SHTG	APA RATED SHEATHING
EWEF	EACH WAY EACH FACE	SSDS	STAINLESS STEEL DECK SCREW
EQ	EQUAL	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	STGR	STAGGERED
EN	EDGE NAILING	STND HK	STANDARD HOOK
ES	EACH SIDE	STIFF	STIFFENER
EW	EACH WAY	SQ	SQUARE
FB	FACE OF BLOCK	SYMM	SYMMETRICAL
FC	FACE OF CONCRETE	T&B	TOP AND BOTTOM
FD	FLOOR DRAIN	TOC	TOP OF CONCRETE
FOF	FACE OF FRAMING	TOF	TOP OF FTG, TOP OF FRMG
FF	FINISHED FLOOR	TOS	TOP OF STEEL
FG	FINISHED GRADE	TOW	TOP OF WALL
FOM	FACE OF MASONRY	TYP	TYPICAL
FOS	FACE OF STUD	UNO	UNLESS NOTED OTHERWISE
FN	FIELD NAILING	VERT	VERTICAL
FTG	FOOTING	VIF	VERIFY IN FIELD
GA	GAGE	W	WIDE
GALV	GALVANIZED	WP	WORKING POINT
GC	GEN. CONTRACTOR	WS	WOOD SCREW

X. Steel Notes:

- Fabrication, erection and materials shall conform with the AISC Specifications and the 2019 CBC w/ DSA Amendments.
- Holes for bolts shall be same diameter as bolt plus 1/16"
- Use standard AISC gage and pitch for bolts except as noted.
- Exposed steel must be primed & painted for exterior freeze/thaw conditions. Color is per Architect, minimum requirements are as noted below unless otherwise approved by Architect and Owner:
 - Primer: Thmec 94-H20 installed to 2.5 to 3.5 mils dft. Clean steel per SP6/NACE3 prior to application.
 - Paint: Thmec 1075 @ 3.0 to 4.0 mils dft.
- Steel exposed to public view should be fabricated per architecturally exposed structural steel standards (AESS).
- Prepare mating surfaces & tighten "snug tight" as defined in the specifications.

EXPANSION ANCHORS IN 3,000 PSI MIN CONCRETE					
ANCHOR TYPE	ANCHOR DIA	MINIMUM NOMINAL EMBEDMENT UNO h min	MINIMUM EDGE DIST UNO C min	MINIMUM SPACING UNO S min	MIN CONCRETE DEPTH UNO h min
HILTI KB-T22	3/4"	2 1/2"	2 1/4"	5"	5"
	1/2"	3 3/4"	3 3/4"	5 1/2"	6"
	3/8"	4 1/2"	4 1/4"	5 3/4"	6"
	3/4"	5 1/2"	7 1/4"	8 1/4"	8"
					50 CS / 40 SS
					40 CS / 60 SS
					110 CS / 125 SS



NOTES:

- Install drilled expansion anchors per manufacturer's information and ICC ESR-4266 instructions. Special inspection is required per Section 1704A and the requirements of the ICC reports.
- Contractor to verify minimum edge distances, spacing and thickness are in accordance with schedule prior to installing anchor. Values are absolute minimums for installation. Capacity reduction may be required per CBC and ICC reports.
- When installing drilled-in anchors in existing reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. Maintain a reasonable clearance between reinforcement and the drilled-in anchor.
- The special inspector shall be on the jobsite continuously during anchor installation to verify anchor type, anchor dimensions, hole cleanliness, embedment depth, concrete typ, concrete compressive strength, drill bit diameter, hole depth, edge distance, S_T, anchor spacing, concrete thickness, and installation torque.



V. General Notes Continued:

- Drawings indicate General and Typical Details of Construction. Where conditions are not specifically indicated but are of similar character to details shown, similar detail of construction shall be used subject to review by the Engineer.
- See Civil, Mechanical, Plumbing and Electrical drawings for size and location of all openings required for ducts, pipes and all pipe sleeves, electrical conduits and other items to be embedded in concrete or otherwise incorporated in structural works.
- Architectural and Civil Plans are considered a part of the structural design drawings and are to be used to define detail configurations including, but not limited to relative location of members, elevations, location of all opening, etc.
- All necessary permits, licenses, approvals, fees, notices, etc., shall be obtained prior to beginning construction.
- No conduit, pipes or ducts shall be embedded into structural members unless so shown on the plans or approved by the Structural Engineer.
- Refer to Architectural Plans for floor depressions, openings, slopes, drawing, curbs, pad, embedded items, non-bearing partitions, stair hangers, etc. Refer to Mechanical and Electrical Plans for sleeves, openings, and hangers for pipes, ducts and equipment.
- Verify all dimensions and conditions on the job prior to construction
- Contractor shall keep a copy of the existing drawings prepared by Delp W. Johnson, Poole & Storm, AIA dated 5/4/1970, DSA App# 32556 at the job site during construction.

VI. Foundation:

- The foundation design is based on the Geotechnical report by Ninyo & Moore, Project No. 404147002.
 - D + L Bearing Pressure = 2500 psf
 - D + L + Lateral = 3333 psf
- Unless otherwise indicated. Foundation work shall be performed in accordance with the geotechnical report and all applicable local codes.
- Foundation excavations shall be examined by a soils engineer prior to placement of reinforcing steel or concrete.
- Unexpected soil conditions: foundation design is based upon soil conditions normally encountered in work on lots suitable for construction of these types of structures. Where soil conditions are encountered that are suspect with regard to the suitability or capacity of soil to support the structure in the opinion of the contractor or building inspector, notify the Geotechnical Engineer in a timely fashion.
- Form footings as necessary.
- Bottom of footing shall be stepped if necessary to provide level bearing.
- Foundation excavations shall be cleaned of any loosened soils and standing water before placing steel or concrete.
- All foundation to bear on native or engineered fill compacted per Geotech report.
- Overexcavation & recompaction to be performed in accordance with Geotechnical Investigation. Moisture-condition soils per Geotechnical Engineer to mitigate expansive soils.

VII. Concrete:

- All structural concrete unless otherwise noted shall have a density of 150 pcf aggregates shall conform to ASTM C33 with proven shrinkage characteristics of less than 0.05%.
- All structural light weight concrete shall have a density of 115 pcf Maximum and 100 pcf minimum. Aggregates shall conform to ASTM C330.
- All cement shall conform to ASTM C150 Type V.
- Concrete mix designs shall be prepared by an independent laboratory and reviewed by the structural engineer.
- Admixtures shall comply with ASTM C494 and be of a type that increases the workability of the concrete. But shall not be considered to reduce the specified minimum cement content (calcium chloride shall not be used).
- Placement of concrete shall be in conformance with the ACI 301.
- Control joints shall be located formed as shown on the drawings. Slab control joints shall be placed at points of low stress as well as located to minimize effects of shrinkage. Key and dowel slab construction joints as shown on the plans. All construction joints shall be cleaned thoroughly and all laitance shall be removed from the surface. All vertical joints shall be thoroughly wetted and slushed with a coat of neat cement or bonding agent immediately before pouring new concrete.
- Set floor screeds to required elevations during concrete pouring to compensate for form settlement.
- Grout: pre-manufactured mix with minimum compressive strength at the end of 28 days of 5000 psi with minimum water consistent with placing requirements.
- Air content: conform to ACI 301 section 4.2.2.4. Horizontal exterior surfaces in contact with the soil or the weather require entrained air. Tolerance is ±1-1/2 % air content shall be measured at point of placement.

VIII. Reinforcing Steel:

- All reinforcing steel shall conform to ASTM A615 Grade 60 for #4 & larger and Grade 40 for #3 & smaller UNO. Reinforcing to be welded shall conform to ASTM A706.
- Welded wire fabric shall conform to ASTM A185. Minimum lap at splices shall be 12 inches.
- All concrete shall be reinforced unless specifically noted "not reinforced" in the drawings. If reinforcing bars are not shown or noted. Provide same reinforcement as for similar conditions elsewhere in the work, or as directed by the architect/engineer.
- Reinforcement bars shall not be spliced except as detailed and located on drawings.
- Anchor bolts, dowels and other embedded items shall be accurately set in place before concrete is poured.
- Reinforcement bars shall be accurately placed and firmly supported. Using ties and support bars in addition to reinforcement shown where firm and accurate placing is necessary as specified in the ACI standards. Dowels should be provided to match all reinforcement at construction joints unless otherwise noted.
- No reinforcement welding shall be done unless shown on the drawings or approved by the engineer (tack welding included). Welding of reinforcement is only permitted for reinforcing steel having a carbon equivalent less than 0.65% according to AWS D1.4 specifications.
- All dimensions shown for location of reinforcing are to the face of bars and denote clear coverage unless otherwise noted.
- Minimum concrete coverage of reinforcing steel shall be as follows unless otherwise noted on plans:

Concrete cast against earth	3"
Formed concrete exposed to earth or weather:	
#5 bar and smaller, post tension strands	1 1/2"
#6 - #18 bars	2"
Formed concrete not exposed to earth or weather:	
Bars in slabs and walls and joists	1"
#6 bars and smaller	1"
#7 - #18 bars	1 1/2"
Bars in beams and columns	1 1/2"

I. Intent Of Drawings:

- These structural plans apply to new construction except where specifically detailed or noted otherwise.
- Typical Details and General Notes on these drawings apply to new construction only except where specifically detailed or noted otherwise.
- Resolve any conflicts on the drawings with the Architects and Structural Engineer before proceeding with construction. Dimensions take precedence over scale of drawings. However, any significant conflicts should be resolved as noted above.
- These drawings represent the finished structure but do not indicate the means or methods or sequences of construction. The contractor is responsible for all temporary bracing, shoring and contractor is responsible for determining and enforcing all construction load limits on the structure.

II. Design Criteria:

Authority Having Jurisdiction & Risk Category

AHJ

Division of the State Architect

Risk Category

III

Project Location

Latitude

38.2357

degrees

N

Longitude

122.1226

degrees

W

Codes & Standards

2019 California Building Code w/ DSA Amendments

CBC 2019

Minimum Design Loads for Buildings and Other Structures

ASCE 7-16

ACI Building Code Requirements for Structural Concrete

ACI 318-14

National Design Specifications for Wood Construction

NDS 2018

Special Design Provisions for Wind & Seismic

SDPWS 2015

American Institute of Steel Construction

AISC 360-16

Wind Design

ASCE 7 Ch. 28

Item

Value

Source Data

Basic Wind Speed

99 mph

hazards.atconciil.org

Exposure

C

Google Earth

Topographic Factor, Kzt

1.0

Google Earth

Seismic Design

ASCE 7 Ch. 11

Item

Value

Source Data

Soil Site Class

D

Geotech Report

Short a, Ss

1.524

Geotech Report

Long a, S1

0.6

Geotech Report

Site Coeff., Fa

1.2

Geotech Report

Site Coeff., Fv

1.7

Geotech Report

Short a, damped, Sds

1.219

Geotech Report

le

1.25

ASCE 7 Ch. 1

Seismic Design Category

D

ASCE 7 Table 11.6-1

Equiv. Lateral Force Factor

Cs

0.468

Ultimate

Design Loads

CBC 1617A.1 item 24-footnote c

Item

Value

Source Data

Bleacher Live

100 psf

III. Structural Materials:

Concrete			ACI 318-14
Item	f'c (psi)	w/c Ratio	Finish
Foundations	3,000	0.55	N/A
Slab on Grade	4,000	0.45	SAD
All Mixes Use Type II Cement			
Reinforcing Steel			ACI 318-14
Item	Fy (ksi)	Reference	Finish
Standard Rebar	60	A 615	N/A
Sawn Lumber			NDS 2018
Item	Species-Grade	Reference	Finish
2x Flat Decking	DF No. 2		PTDF
Fasteners into Exterior Treated Lumber		A B695	HDG
Hot Rolled Steel Framing			AISC 360-16
Item	Fy (ksi)	Reference	Finish
Shapes & Plates	36	A 36	Tnemec
Pipes	35	ASTM A53 Gr. B	Tnemec
Rectangular HSS	46	A 500 Gr. B	Tnemec
Machine Bolts	-	A 307	HDG
Anchor Bolts	36	F 1554 Gr. 36	HDG
Welding Electrodes	E70xx	AWS D1.1	Same as Base

IV. Structural Sheets:

S1.0	TYPICAL STRUCTURAL NOTES
S2.0	BLEACHER PLAN, SECTION, & DETAIL

V. General Notes:

- All materials and workmanship shall confirm to the drawings, General Notes and Specifications.
- During the construction period the contractor shall be responsible for the safety of the structure. The contractor shall retain a registered Civil Engineer to design all temporary shoring, bracing and guys required during construction in accordance with all National, State and Local Safety Ordinances.
- All applicable requirements of the local Construction and General Industry Safety Orders, the Occupational Safety and Health Act and the Construction Safety Act shall be met.
- All erection procedures shall conform to OSHA standards. Any deviation must be approved by OSHA prior to erection.
- The Contractor shall be solely responsible for all excavation procedures including lagging, shoring and protection of adjacent property, structures, streets and utilities in accordance with all National, State and Local Safety Ordinances.
- The Contractor shall be responsible for contacting all utility agencies as to the location of all underground facilities for the protection of and repair of damage to them. Call "Underground Service Alert" forty-eight hours before digging.
- The Contractor shall be responsible for coordinating the work of all trades and shall check all dimensions. All discrepancies shall be called to the attention of the Architect and Structural Engineer and shall be resolved before proceeding with the work.
- Shop drawings required by the specifications shall be submitted to the Structural Engineer for review prior to fabrication.
- All details designed as Standard or Typical shall apply to all applicable conditions in addition to other specifically referenced detail and sections.

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aedis

architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
Tel: (408) 300-5160
Fax: (408) 300-5121

PROJECT
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FAIRFIELD POOL DECK
REPLACEMENT

SOLANO
COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE
DISTRICT
CONSULTANT

RESPONSE
STRUCTURAL ENGINEERS
www.response-eng.com
5441 Fair Oaks Blvd.
Teal Park - Suite G2
Carmichael, CA 95608
Phone: 916.680.9922
RSE Project No. 22428

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DSA FILE NUMBER 48-C1
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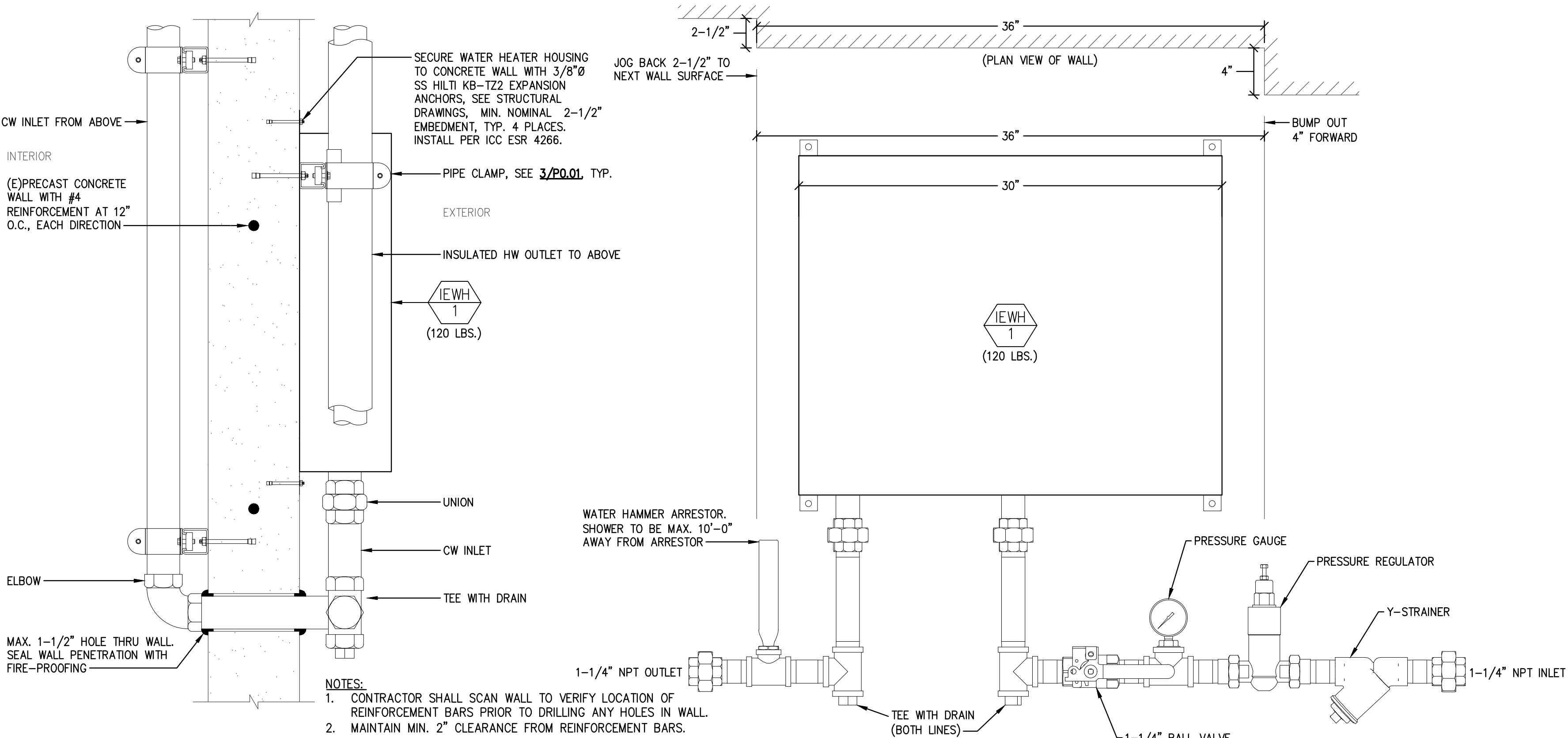
MILESTONES

50% CD	08.24.22
95% CD	09.23.22
DSA SUB	10.05.22
DSA BACK CHECK	12.15.22

SHEET
TYPICAL
STRUCTURAL
NOTES

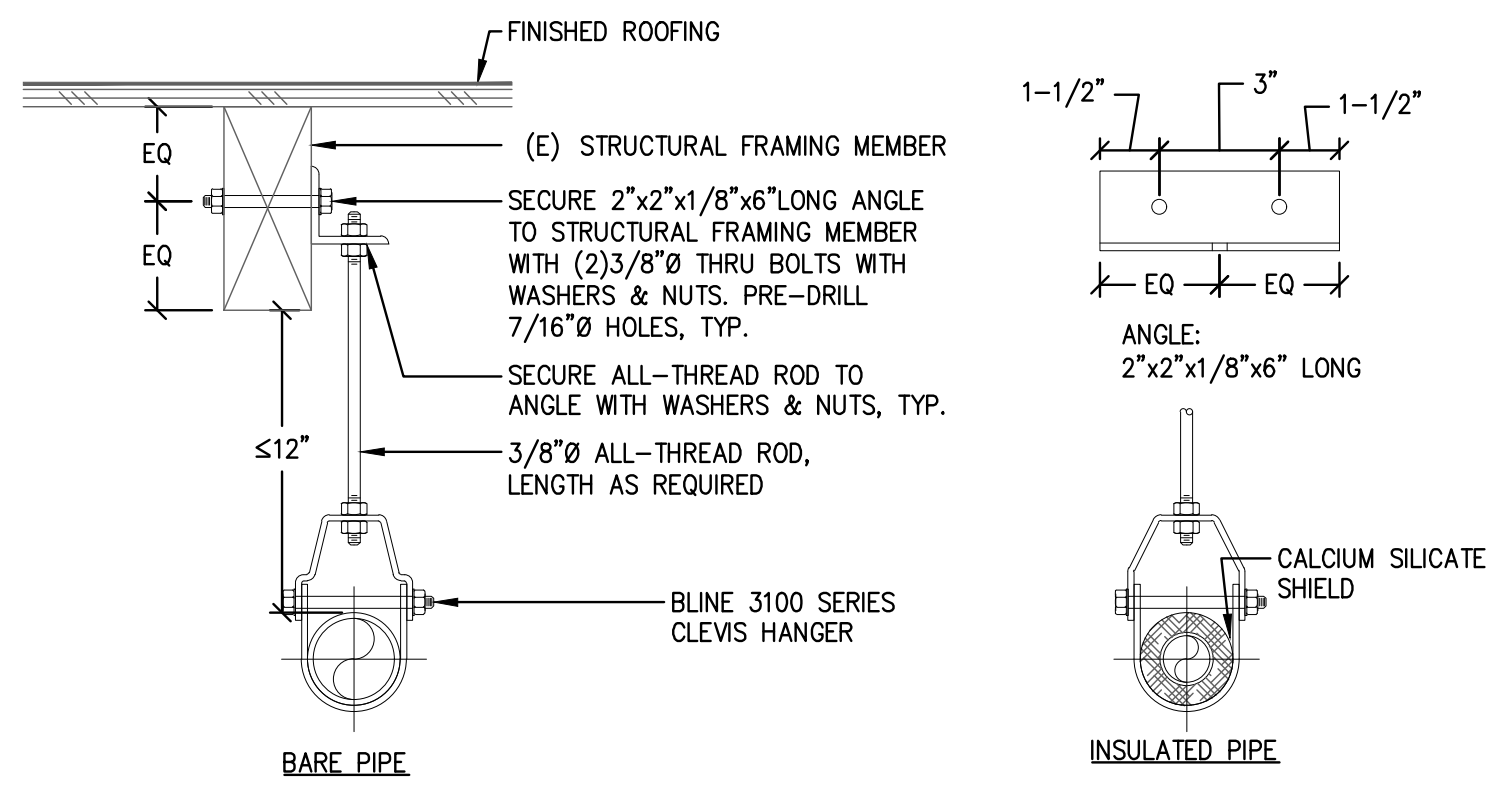
DATE 12.15.2022
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SHEET #
S1.0

Scale: $\frac{3}{4}" = 1'-0"$



1 INSTANTANEOUS ELECTRIC HOT WATER HEATER DETAIL

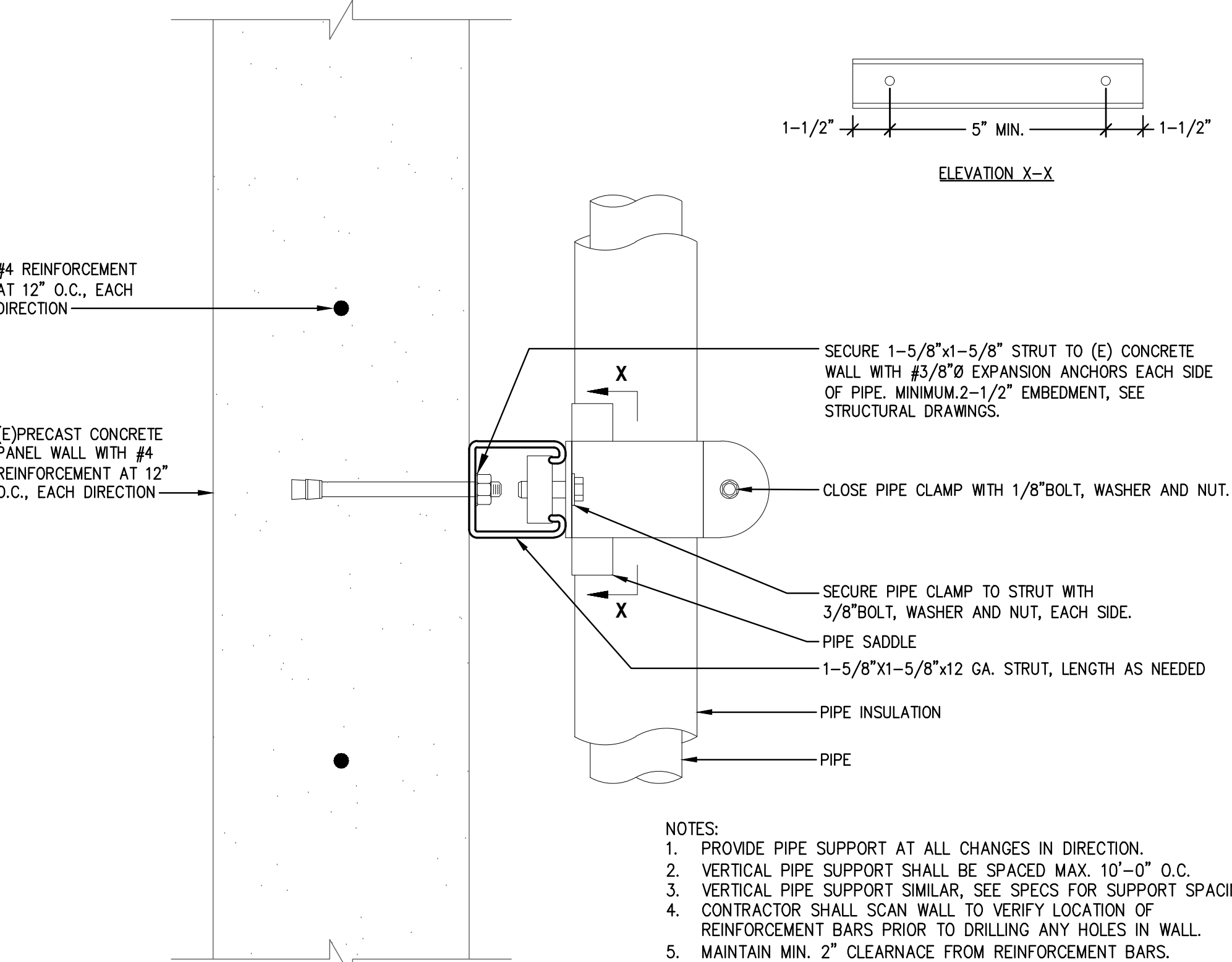
SCALE: NONE



- NOTES:
- SIZE HANGER AND CLAMP TO ADEQUATELY SUPPORT LOAD.
 - MAXIMUM POINT LOAD: 60 LBS.
 - USE FELT LINED HANGER FOR COPPER PIPE.
 - SIZE & PROVIDE CALCIUM SILICATE SHIELDS TO FIT PIPE AND INSULATION THICKNESS.
 - PROVIDE PIPE SUPPORT MAX. 8'-0" O.C. AND EACH TURN OF DIRECTION.

2 PIPE HANGER SUPPORT DETAIL

SCALE: NONE



3 PIPE ON WALL SUPPORT DETAIL

SCALE: NONE

PLUMBING GENERAL NOTES

- PLANS ARE NOT FOR CONSTRUCTION UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL NOT ORDER ANY MATERIALS OR INSTALL ANY EQUIPMENT, PIPING, ETC. UNTIL PLANS ARE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL FIXTURES WHITE UNLESS OTHERWISE NOTED.
- PROVIDE FLOW CONTROL DEVICES ON LAVS AND SINKS PER T-24, PART 5, COR.
- ALL FIXTURES SHALL BE PROVIDED WITH STOP VALVES. VALVES MAY BE IN SUPPLY PIPES OR INTEGRAL WITH SUPPLY FITTINGS.
- WHERE FLUSHMETER VALVE CONFLICTS WITH GRAB BARS, CONTRACTOR SHALL MODIFY VACUUM BREAKER TUBE TO ENSURE VALVE AND GRAB BAR ARE ADEQUATELY SEPARATED.
- CONTRACTOR SHALL COORDINATE ALL PLUMBING LINE LOCATIONS WITH OTHER TRADES.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES AND MOUNTING HEIGHTS.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL COSTS INVOLVED.
- INSULATE HOT & COLD WATER SUPPLY PIPES, STOPS, P-TRAP AND DRAIN LINE AT EACH ADA LAVATORY AND SINK WITH ANTI-MICROBIAL, SEAMLESS, VANDAL RESISTANT PROTECTIVE PIPE COVER "PROWRAP" OR EQUAL.
- ALL PIPE PENETRATIONS THROUGH ROOF SHALL BE FLASHED SIMILAR TO VTR'S.
- ALL SANITARY SEWER VENT PIPE PENETRATIONS THROUGH ROOF SHALL TERMINATE AT A MINIMUM DISTANCE OF 10' FROM ANY FRESH AIR INTAKE.
- MINIMUM LOCAL CONNECTION SIZES SHALL BE MADE IN ACCORDANCE WITH THE SCHEDULE OF CONNECTIONS.
- ALL WATER PIPING SIZED IN ACCORDANCE WITH 2019 CPC, APPENDIX A.
- ALL WASTE, WATER, FIRE AND STORM DRAIN PIPING SHALL BE STUBBED 5' OUTSIDE BUILDING TO CONNECTION POINT SHOWN. SEE CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE PIPING.
- COORDINATE ALL TRENCHING WITH CONTRACTOR.
- ALL HOSE BIBBS SHALL BE 3/4" AND MOUNTED AT 12" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL HOSE BIBBS SHALL HAVE A NON-REMOVABLE VACUUM BREAKER.
- CONTRACTOR SHALL VERIFY LOCATION AND ADEQUACY OF SIZE AND DEPTH OF EXISTING PLUMBING UTILITIES PRIOR TO COMMENCEMENT OF ANY WORK OR ORDERING ANY MATERIALS.
- PROVIDE MATERIALS IN ACCORDANCE WITH 2019 CALIFORNIA PLUMBING CODE AND STATE CODE REGULATIONS.
- SEISMIC SUPPORTS AND BRACING FOR ALL PIPING SHALL BE PROVIDED IN ACCORDANCE WITH 2019 CBC SECTION 1613.1, 2016 ASCE7 SECTION 13.6.1 AND NFPA 13 STANDARDS FOR SUPPORT AND ANCHORAGE. METHODS AND MATERIALS PUBLISHED BY SMACNA AND APPROVED BY STATE AGENCIES SHALL BE USED.

MEP COMPONENT ANCHORAGE NOTE

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/200 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
 - COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM OR OPS FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

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

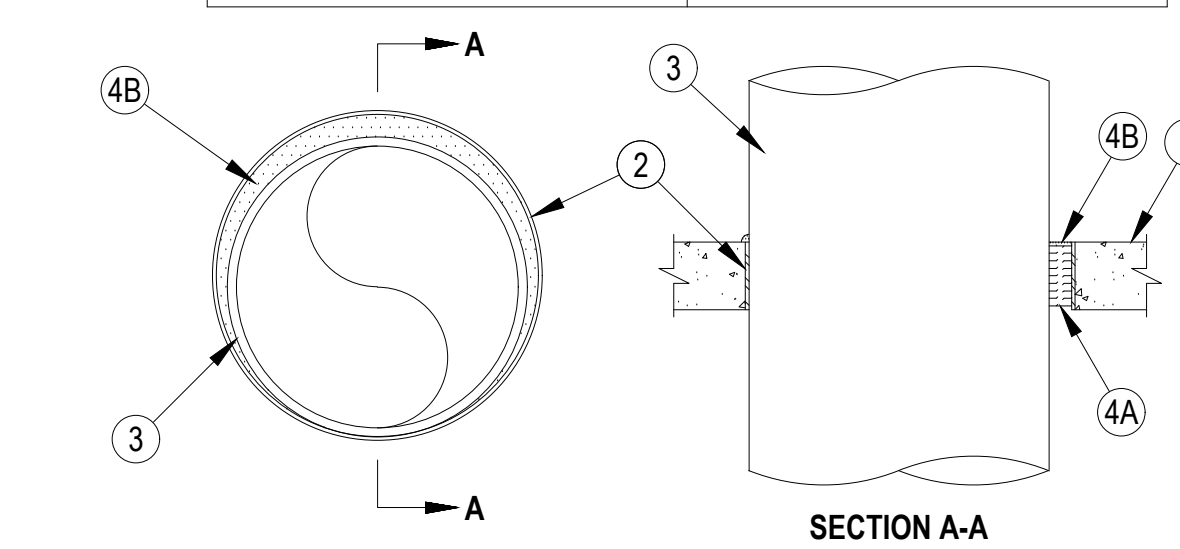
MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM # OR OSP #) # _____.

4 PIPE THRU PREFAB CONCRETE PANEL DETAIL

SCALE: NONE

System No. C-AJ-1226

ANSIUL1479 (ASTM E814)	CANULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



- Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in. (813 mm).
- Metallic Sleeve — (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.
- Sheet Metal Sleeve — (Optional) Max 6 in. (152 mm) diam, min 26 ga. galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.
- Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.
- Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 0.78 in. (48 mm). Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
 - Sleeve Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 - Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - E-Condut — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
 - F-Condut — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
- Firestop System — The firestop system shall consist of the following:
 - Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI
 Hilti Firestop Systems

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 January 07, 2015

5 PIPE THRU CONCRETE RATED WALL

SCALE: NONE

PLUMBING FIXTURE SCHEDULE

SYMBOL	MAKE	NUMBER	DESCRIPTION/TRIM	SUPPORT	MATERIAL
SH-1	ACORN	450B	APEX TYPE 5, SURFACE MOUNTED SHOWER, 18 GA, 304 STAINLESS STEEL, SATIN FINISH. TEMPERATURE-PRESSURE BALANCING MIXING VALVE WITH LIGATURE RESISTANT TRI-LEVER HANDLE.	WALL	STAINLESS STEEL
SH-2 ACCESSIBLE	ACORN	450BADWH	APEX TYPE 5, SURFACE MOUNTED SHOWER, 18 GA, 304 STAINLESS STEEL, SATIN FINISH, TOP & BOTTOM 30PSLOPE, TEMPERATURE-PRESSURE BALANCING MIXING VALVE WITH LIGATURE RESISTANT TRI-LEVER HANDLE, DIVERTER VALVE, QUICK-DISCONNECT HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, VACUUM BREAKER AND FLOW CONTROL, 60" HOSE, TOP SUPPLY, PENAL SHOWERHEAD, TWO-WALL STAINLESS STEEL GRAB BAR. UNIT SHALL CONFORM TO ADA AND TITLE 24 REQUIREMENTS FOR ACCESSIBLE INSTALLATIONS.	WALL	STAINLESS STEEL
DE-1 ACCESSIBLE	ELKAY	LK4420 BI-LEVEL	NO LEAD, FREE-STANDING, BARRIER-FREE, BI-LEVEL, 316 STAINLESS STEEL, POWDER-COATED HEAVY DUTY VANDAL RESISTANT, VANDAL RESISTANT PUSH-BUTTON CONTROL FRONT, #97890C DIRECT BURY ADAPTOR, UNIT SHALL CONFORM TO ADA AND TITLE 24 REQUIREMENTS FOR ACCESSIBLE INSTALLATIONS. COORDINATE WITH OWNER FOR COLOR REQUIREMENTS.	FLOOR	STAINLESS STEEL
DE-2 ACCESSIBLE	ELKAY	LK4420BFIU BI-LEVEL WITH BOTTLE FILLER	OUTDOOR BOTTLE FILLING STATION, NO LEAD, FREE-STANDING, BARRIER-FREE, BI-LEVEL, POWDER-COATED 316 STAINLESS STEEL, HEAVY DUTY VANDAL RESISTANT, VANDAL RESISTANT PUSH-BUTTON CONTROL FRONT, #97890C DIRECT BURY ADAPTOR, UNIT SHALL CONFORM TO ADA AND TITLE 24 REQUIREMENTS FOR ACCESSIBLE INSTALLATIONS. COORDINATE WITH OWNER FOR COLOR REQUIREMENTS.	FLOOR	STAINLESS STEEL
HB-1	ACORN	8151	HOSEBIBB WITH INTEGRAL VACUUM BREAKER, BENT WITH FLANGE, CHROME PLATED, REMOVABLE WHEEL LOOK KEY HANDLE.	WALL	ROUGH BRONZE

EQUIPMENT SCHEDULE

SYMBOL	MAKE	NUMBER	DESCRIPTION/TRIM	LOCATION	DETAIL
EW1	HAWS	9327	PARABOLIC TANKLESS HEATER, EXTERIOR WALL NEMA 4 RATED CABINET, THERMO-OPTICAL SENSOR, MULTISTAGE ELEMENT, VISUAL INTERFACE, BMS CAPABLE, MODULAR HEATING CHAMBER ASSEMBLY, FLOW FAULT CODES, LCD DISPLAY, 6.4 GPM FLOW, 54 KW INPUT AT 480 V/3 PH/60 HZ ELECTRICAL SERVICE, 65 AMPS DRAW, PROVIDE NEMA 3R DISCONNECT SWITCH, SET AT 105°F LEAVING TEMPERATURE. 120 LBS.	WALL	1 P.001

PLUMBING FIXTURE CONNECTIONS

FIXTURE	SYMBOL	BRANCH	WASTE	COLD WATER	HOT WATER
SHOWER	SH	2"	1-1/2"	2"	3/4"
DRINKING FOUNTAIN	DF	2"	1-1/2"	2"	1/2"

BASIC PIPE MATERIAL TABLE

(FOR INSPECTOR'S USE — CONTRACTOR TO REFERENCE SPECIFICATIONS)

SERVICE	SIZE	LOCATION	MATERIAL
WASTE & VENT	ALL	ALL PIPING	SERVICE WEIGHT CAST IRON SOIL PIPE & FITTINGS, ASPHALTIC COATED. SEE SPECIFICATION SECTION 22 13 16 FOR MORE INFORMATION.
WATER	ALL	ABOVE GROUND	TYPE L — HARD TEMPER COPPER, SEE SPECIFICATION SECTION 22 11 16 FOR MORE INFORMATION.
WATER	ALL	BELOW GROUND	TYPE K — HARD TEMPER COPPER PIPE AND FITTINGS. SEE SPECIFICATIONS 22 11 16 FOR MORE INFORMATION.

T-24 PIPING INSULATION REQUIREMENTS

FLUID TEMPERATURE RANGE (°F)	CONDUCTIVITY RATING (IN BTU-INCH PER HOUR PER SQUARE FOOT PER °F)	INSULATION MEAN RATING TEMPERATURE (°F)	NOMINAL PIPE DIAMETER (IN INCHES)			
			<1	1 TO <1.5	1.5 TO <4	4 TO <8
SPACE HEATING AND SERVICE WATER HEATING SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER);						
141-200	0.25-0.29	125	1.5	1.5	2.0	2.0
105-140	0.22-0.28	100	1.0	1.5	1.5	1.5
SPACE COOLING SYSTEMS (CHILLED WATER, REFRIGERANT AND BRINE)						
-	-	-	NONRES RES	NONRES RES		
40-60	0.21-0.27	75	0.5	0.75	1.0	1.0
BELOW 40	0.20-0.26	50	1.0	1.5	1.5	1.5

PLUMBING LEGEND

—SS— SANITARY SEWER (SS)	—D— BALL VALVE
—VV— SANITARY VENT (V)	—U— UNION
—CW— COLD WATER (CW)	—S— SHUT OFF VALVE IN VALVE BOX
—CD— CONDENSATE DRAIN	—P— POINT OF CONNECTION
—OF— RAIN WATER LEADER OVERFLOW (OF)	
—RWL— RAIN WATER LEADER (RWL)	
—SD— STORM DRAIN (SD)	

ABC ABOVE CEILING	PC PLUMBING CONTRACTOR
AFF ABOVE FINISH FLOOR	PRV PRESSURE REGULATING VALVE
BF(G) BELOW FINISH FLOOR (GRADE)	PSI POUNDS PER SQUARE INCH
BV BALL VALVE	RD/OFD ROOF DRAIN/OVERFLOW DRAIN
CD CONDENSATE DRAIN	RWL RAIN WATER LEADER
CW COLD WATER	SOV SHUT OFF VALVE
CWR COLD WATER RISER	TYP TYPICAL
FA FROM ABOVE	TA TO ABOVE
FB FROM BELOW	TB TO BELOW
FCO FLOOR CLEANOUT	VB VALVE BOX
FTE FINISHED FLOOR ELEVATION	V VENT
GV GATE VALVE	VR VENT RISER
IE INVERT ELEVATION	VTR VENT THRU ROOF
MV MIXING VALVE	WCO WALL CLEANOUT
OF OVER FLOW	SS SANITARY SEWER
	WHA WATER HAMMER ARRESTOR

SHEET LIST

SHEET NUMBER	SHEET DESCRIPTION
P.001	SYMBOLS & NOTES
P1.01	ENLARGED SITE PLAN — DEMOLITION
P2.01	ENLARGED SITE PLAN — PLUMBING
P2.02	ENLARGED SHOWER AREA — PLUMBING

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-120573 INC.
 REVIEWED FOR
 SS ☒ FLS ☒ ACS ☒
 DATE: 02/02/2023

aedis
 architects

www.aedisarchitects.com
 387 S. 1st Street, Suite 300
 San Jose, CA 95113
 tel: (408) 300-5160
 fax: (408) 300-5121

PROJECT
SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT



SOLANO COMMUNITY COLLEGE
 DISTRICT
 CONSULTANT

7750 College Town Dr. ste. 101
 Sacramento, CA 95826
 tel (916) 447-2841
 www.peterseng.com
 Job no.22.081

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 No. Description Date

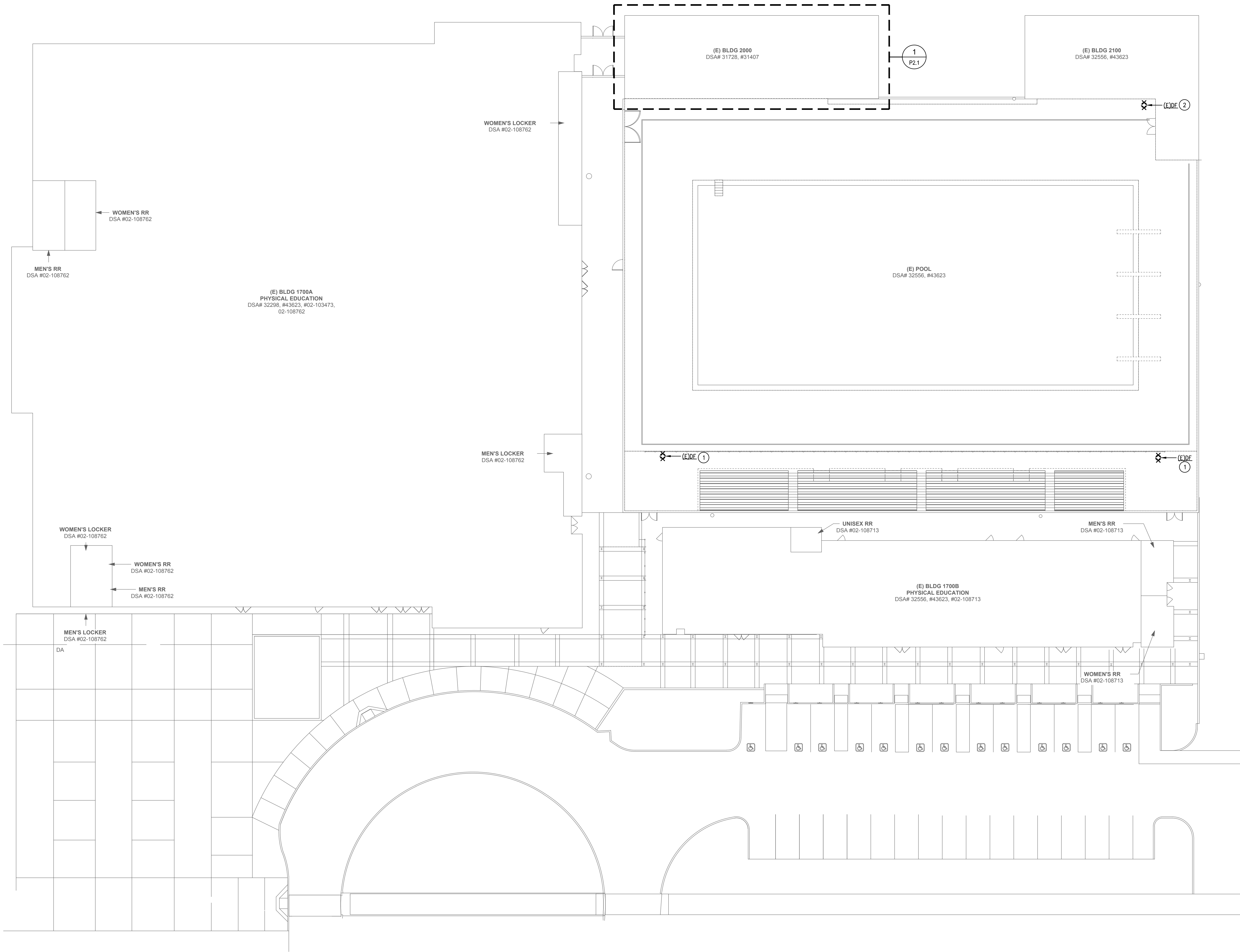
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50% CD		08.24.22
95% CD		09.23.22
DSA SUB		10.06.22
DSA BACK CHECK		12.15.22
SHEET		
SYMBOLS & NOTES		
MILESTONES		

DATE 12/15/2022
 JOB # 2022013

SHEET #

P0.01

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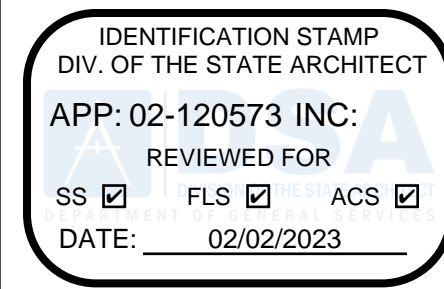


SHEET NOTES:

1. EXISTING CONDITIONS SHOWN ARE TAKEN FROM AS-BUILT DRAWINGS AND SITE VISIT. CONTRACTOR SHALL FIELD VERIFY PIPING LOCATIONS, SIZES AND INVERT ELEVATIONS. CONTACT ENGINEER IF DISCREPANCIES ARE FOUND.

KEYED NOTES:

- 1 REMOVE (E) DRINKING FOUNTAIN, SUPPORTS AND ACCESSORIES ON POOL DECK AT LOCATION SHOWN. PREPARE ALL PLUMBING SERVICES FOR RE-USE.
- 2 REMOVE (E) DRINKING FOUNTAIN, SUPPORTS AND ACCESSORIES ON POOL DECK AT LOCATION SHOWN. CAP ALL PLUMBING SERVICES BELOW FINISHED SURFACES. REFER TO ARCHITECTURAL PLANS FOR FINISHED SURFACE REQUIREMENTS.



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architects

www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121

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P PETERS
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Sacramento, CA 95826
tel (916) 447-2841
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No.	Description	Date
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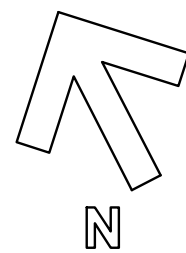
MILESTONES	
50% CD	08.24.22
95% CD	09.23.22
DSA SUB	10.06.22
DSA BACK CHECK	12.15.22

SHEET
ENLARGED SITE
PLAN - DEMOLITION

DATE 12/15/2022
JOB # 2022013

SHEET #
P1.01

1 ENLARGED SITE PLAN - DEMOLITION
SCALE: 1/16" = 1'-0"



SHEET NOTES:

- EXISTING CONDITIONS SHOWN ARE TAKEN FROM AS-BUILT DRAWINGS AND SITE VISIT. CONTRACTOR SHALL FIELD VERIFY PIPING LOCATIONS, SIZES AND INVERT ELEVATIONS. CONTACT ENGINEER IF DISCREPANCIES ARE FOUND.
- ALL SANITARY SEWER AND GREASE WASTE PIPING SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
- ALL WATER PIPING SHALL BE ROUTED ABOVE CEILING UNLESS OTHERWISE NOTED.

KEYED NOTES:

1 DRINKING FOUNTAIN: PROVIDE 2" WASTE DROP WITH CLEANOUT AND 1/2" COLD WATER PIPING IN UNIT HOUSING. CONTRACTOR SHALL TRENCH AND SAW CUT AS REQUIRED TO MAKE NECESSARY CONNECTION TO MAIN SEWER AND DOMESTIC WATER LINE.

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www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121

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SOLANO COMMUNITY COLLEGE
DISTRICT
CONSULTANT

P
PETERS
engineering
7750 College Town Dr. ste. 101
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No.	Description	Date
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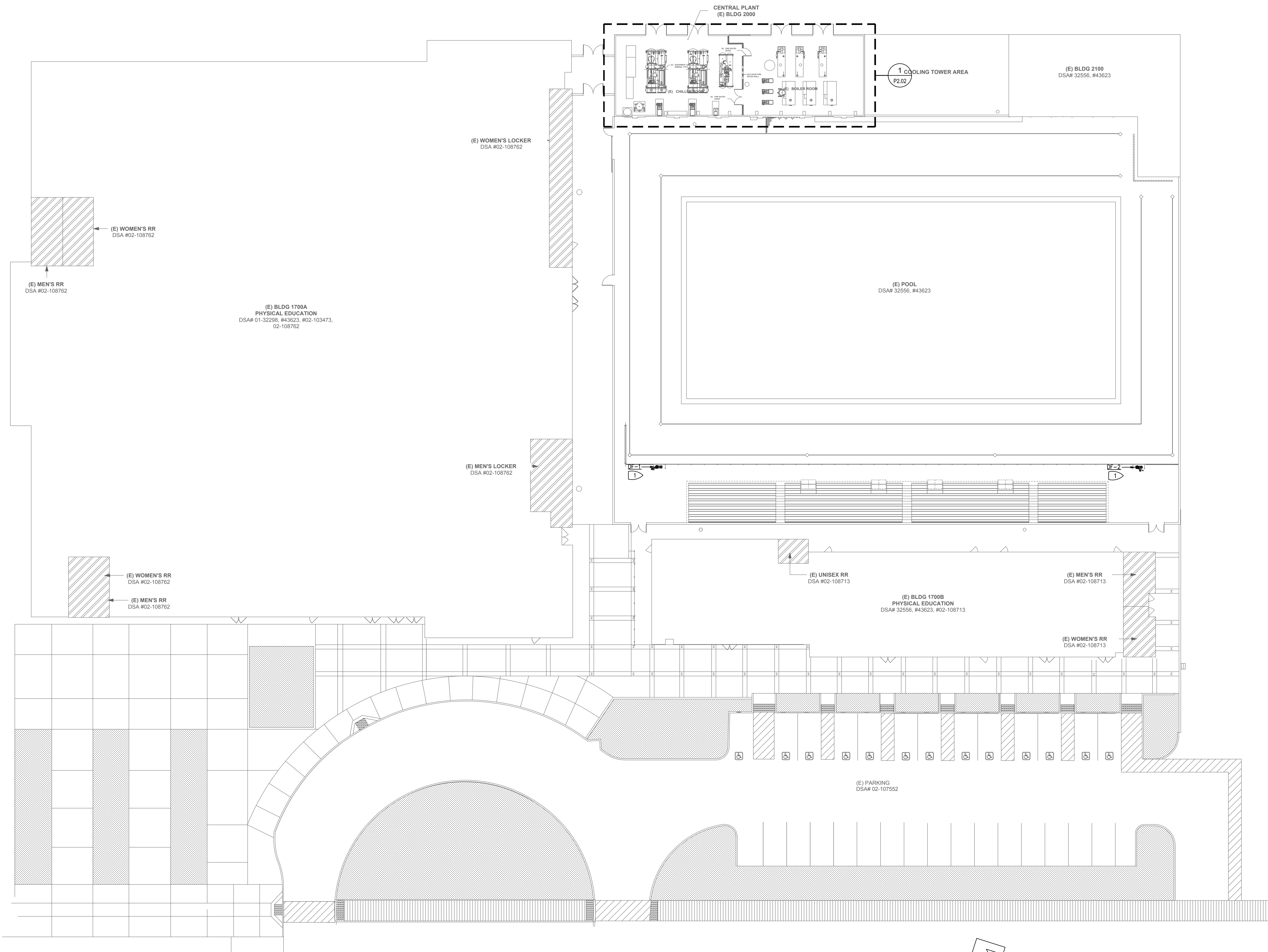
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95% CD	09.23.22
DSA SUB	10.06.22
DSA BACK CHECK	12.15.22

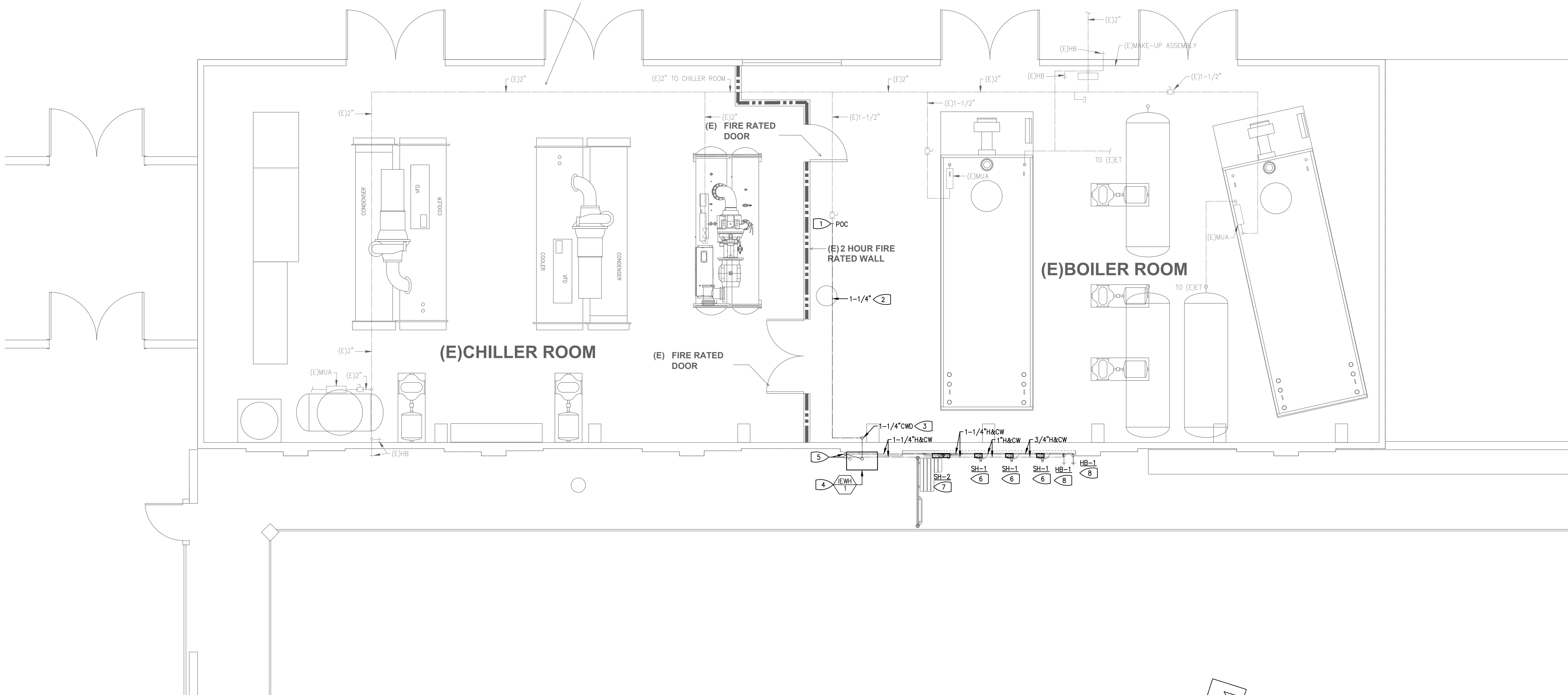
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ENLARGED SITE
PLAN - PLUMBING

DATE 12/15/2022
JOB # 2022013
SHEET #
P2.01

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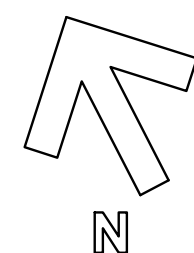


1 ENLARGED SITE PLAN - PLUMBING
SCALE: 1/16" = 1'-0"



1 ENLARGED SHOWER AREA - PLUMBING

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

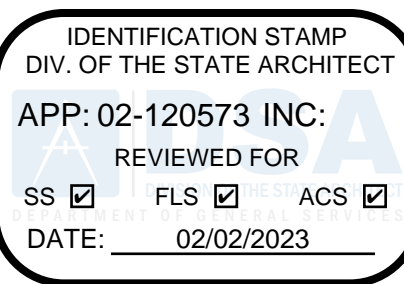


SHEET NOTES:

- EXISTING CONDITIONS SHOWN ARE TAKEN FROM AS-BUILT DRAWINGS AND SITE VISIT. CONTRACTOR SHALL FIELD VERIFY PIPING LOCATIONS, SIZES AND INVERT ELEVATIONS. CONTACT ENGINEER IF DISCREPANCIES ARE FOUND.
- ALL SANITARY SEWER AND GREASE WASTE PIPING SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
- ALL WATER PIPING SHALL BE ROUTED ABOVE CEILING UNLESS OTHERWISE NOTED.

KEYED NOTES:

- CONNECT 1-1/4" TO EXISTING COLD WATER PIPING AT LOCATION SHOWN. PROVIDE LINE SIZE SHUT-OFF VALVE AT HIGH CEILING.
- OFFSET AND ROUTE COLD WATER PIPING ALONG UNDERSIDE OF STRUCTURAL FRAMING MEMBERS. PROVIDE PIPE SUPPORT EVERY 10'-0" AND EACH CHANGE OF DIRECTION. SEE DETAIL 1/P2.01, TYPICAL.
- ROUTE 1-1/4" COLD WATER PIPING THRU HIGH EXTERIOR WALL AT LOCATION SHOWN. OFFSET AND ROUTE COLD WATER PIPING DOWN WALL TO WATER HEATER BELOW. SEAL WALL PENETRATION WEATHER-TIGHT. MAINTAIN MIN. 4" CLEARANCE TO PIPE SUPPORT. PROVIDE PIPE SUPPORT EVERY 10'-0" AND EACH CHANGE OF DIRECTION. SEE DETAIL 1/P2.01, TYPICAL.
- INSTANTANEOUS ELECTRIC WATER HEATER: CONNECT 1-1/4" COLD WATER SERVICE TO FIXTURE. ROUTE 1-1/4" HOT WATER UP ALONG WALL INTO SOFFIT SPACE ABOVE. SEE DETAIL 1/P2.01.
- ROUTE 1-1/4" HOT & COLD WATER PIPING UP ALONG EXTERIOR WALL WALL AT LOCATION SHOWN. OFFSET AND ROUTE HOT AND COLD WATER PIPING THRU SOFFIT PER PLANS. PROVIDE PIPE SUPPORT EVERY 10'-0" AND EACH CHANGE OF DIRECTION. SEE DETAILS 2/P2.01 AND 3/P2.01, TYPICAL.
- SHOWER: PROVIDE 3/4" HOT AND COLD WATER PIPING IN PIPE WALL CHASE. CONNECT TO FIXTURE PER MANUFACTURER'S REQUIREMENTS INCLUDING WALL SHOWER HEAD AND THERMOSTATIC MIXING VALVE.
- ADA SHOWER: PROVIDE 3/4" HOT AND COLD WATER PIPING IN PIPE WALL CHASE. CONNECT TO FIXTURE PER MANUFACTURER'S REQUIREMENTS INCLUDING WALL SHOWER HEAD, HAND-HELD SHOWER, THERMOSTATIC MIXING VALVE & DIVERTER VALVE.
- HOSE BIBB: PROVIDE 1/2" HOT OR COLD WATER DROP IN WALL. CONNECT TO HOSE BIBB 24" ABOVE GRADE AT LOCATION SHOWN.



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www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121

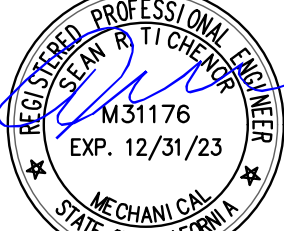
PROJECT
SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT



SOLANO COMMUNITY COLLEGE
DISTRICT
CONSULTANT

PETERS
engineering
7750 College Town Dr. Ste. 101
Sacramento, CA 95826
tel (916) 447-2841
www.peterseng.com
Job no. 22.081

consulting mechanical and electrical engineer
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STAMP



PLOT DATE: 12/2/2022

STATE
DSA FILE NUMBER 48-C1
APPL # 02-120573

No.	Description	Date
△		

MILESTONES	
50% CD	08.24.22
95% CD	09.23.22
DSA SUB	10.06.22
DSA BACK CHECK	12.15.22

SHEET
ENLARGED SHOWER
AREA - PLUMBING

DATE 12/15/2022
JOB # 2022013
SHEET #
P2.02

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)(2) for alterations.

Project Name: Solano CCD Fairfield Pool Deck Replacement

Report Page: Page 1 of 4

Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534

Date Prepared: 09-23-2022

A. GENERAL INFORMATION

01 Project Location (city)

☐ Office

☐ Retail

☐ Warehouse

☐ Hotel/ Motel

☒ School

☐ Support Areas

☐ Parking Garage

☐ High-Rise Residential

☐ Relocatable

☐ Healthcare Facilities

☐ Other (Write in):

02 Occupancy Types Within Project:

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
Electrical Service Designation/ Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)(6)(b)	Demand Response Controls Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.
New Water Heater	Add/Alt to feeders and branch circuits only		<input type="checkbox"/>	<input type="checkbox"/>	

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. For guidance and review the Table that indicates "No".

01	02	03	04	05			
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)	Compliance Results
AND		AND	Yes	AND			COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: Solano CCD Fairfield Pool Deck Replacement

Report Page: Page 2 of 4

Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534

Date Prepared: 09-23-2022

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. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This Section Does Not Apply

H. VOLTAGE DROP

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)(ii).

01	02	03	04	05
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector Pass Fail
	<input checked="" type="checkbox"/> Voltage drop < 5%	<input type="checkbox"/> Permitted by CA Elec Code (Exception to §130.5(c)) ¹	In construction documents	E0.01 <input type="checkbox"/> Pass <input type="checkbox"/> Fail

¹ NOTES If "Permitted by CA Elec Code*" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: Solano CCD Fairfield Pool Deck Replacement

Report Page: Page 3 of 4

Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534

Date Prepared: 09-23-2022

J. 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 https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

YES	NO	Form/Title	Field Inspector Pass Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-ELC-01-E - Must be submitted for all buildings.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: Solano CCD Fairfield Pool Deck Replacement

Report Page: Page 4 of 4


Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534

Date Prepared: 09-23-2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Nono Simanto

Documentation Author Signature: 

Company: EDGE Electrical Consulting, Inc.

Signature Date: 12-02-2022

Address: 1801 7th Street, Suite 150

CEA/HERS Certification Identification (if applicable):

City/State/Zip: Sacramento, CA 95811

Phone: 916-256-2460

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: Yip Shing Donny Lee

Responsible Designer Signature: 

Company: EDGE Electrical Consulting, Inc.

Date Signed: 12-02-2022

Address: 1801 7th Street, Suite 150

License: E017376

City/State/Zip: Sacramento, CA 95811

Phone: 916-256-2460

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>


January 2020

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120573 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 02/02/2023

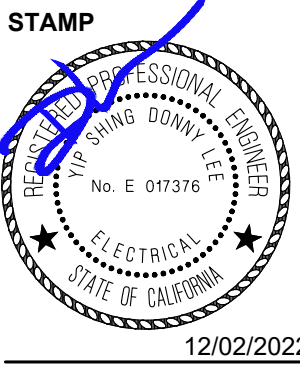
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387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121


PROJECT
SOLANO CCD
FAIRFIELD POOL DECK
REPLACEMENT


SOLANO
COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE
DISTRICT
CONSULTANT
EDGE
ELECTRICAL CONSULTING
1801 7th Street, Suite 150
Sacramento, CA 95811
916.256.2460
Project Number 0418 Contact Nono

STAMP

12/02/2022

STATE
DSA FILE NUMBER 48-C1
APPL # 02-120573

REVISIONS
No. Description Date


MILESTONES

50% CD	08.24.22
95% CD	09.23.22
DSA SUB	10.06.22
DSA BACK CHECK	12.15.22

SHEET
TITLE 24
COMPLIANCE

DATE 12/15/2022
JOB # 2022013
SHEET # E0.02

SECTION 26 00 00 - ELECTRICAL WORK		Work of the Division in which specified. Internal components shall be wired to a single point with wiring in raceway direct connection (hardwired) to building electrical system or internal wiring and connections with cord and plug for receptacle connection to building wiring.		2. 0.50-inch high letters for identifying grouped equipment and loads.		D. Feeder Circuit Conductors: Uniquely color code each phase.	
PART 1	GENERAL	4. Unless otherwise shown or specified, provide direct raceway and conductor connections from building wiring system to equipment terminals for direct-connected equipment terminals for direct-connected equipment which is Contractor-furnished and Contractor-installed, Owner-furnished and Contractor-installed, and for existing equipment relocated by the Contractor.		C. Minimum nameplate thickness: 0.125-inch.		E. Ground Conductors: 1. For 6 AWG and smaller: Green.	
1.01	CONDITIONS:	A. The Requirements of General Conditions and Special Conditions apply to Work of this Section as if fully repeated herein.		PART 3 EXECUTION		3.10 INSTALLATION - RACEWAY:	
1.02	WORK INCLUDED:	A. Adequate working space shall be provided around electrical equipment in strict compliance with the Codes. In general, provide 78" of headroom and 36" minimum clear workspace in front of switchboards, panelboards, transformers, disconnect switches and controls for 120/208-volts and 42" for 277/480-volts. Carefully coordinate locations and orientation of electrical equipment with other divisions to ensure that working space will be clear of piping, conduits, and equipment provided by others.		3.01 GENERAL: A. Manufacturer's Directions: Follow manufacturer's directions where manufacturers of articles used furnish directions covering points not specified or shown. B. All Work shall be done in orderly, workmanlike manner and present neat appearing installation when completed. C. Provide metal backing plates, anchor plates, and similar items that are required for anchorage for the Work of this Section; securely weld or bolt to metal framing. Wood blocking or backing will not be permitted in combination with metal framing. D. Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage shall conform to the requirements of California Building Code. No allowance will be made for negligence to foresee means of placing, installing, or supporting equipment in position. E. Electrical products shall be anchored and fastened to building elements and finishes as follows: 1. Concrete Structural Elements: Provide expansion anchors and powder actuated anchors. 2. Concrete Surfaces: Provide expansion anchors. 3. Solid Masonry Walls: Provide expansion anchors. 4. Sheet Metal: Provide sheet metal screws. 5. Wood Elements: Provide wood screws. F. All wiring shall be installed in conduit, unless specifically shown otherwise on plans.		A. Raceway routing is shown in approximate locations unless dimensioned. Route to complete wiring system. B. Conduits installed on top of roof or covered walk structure (on top or below) shall be rigid steel or IMC. C. All Conduits Shall Be Rigid Steel, except EMT may be used at the following locations: 1. In dry locations in furred spaces. 2. In partitions other than concrete or solid masonry. 3. In exposed (above eight feet (8') excluding top of roof or covered walk structure (on top or below)) interior/ exterior locations and in electrical/ mechanical/ communications rooms made up with watertight compression type connectors and couplings. Connectors to outlets shall be insulated throat type with integral non-removable plastic insulator lining. 4. Patch all coated conduit according to the manufacturer's recommendation. Completely coat all holidays and tool marks using paste recommended by manufacturer. Coat remaining exposed conduit threads with paste when installation is complete. D. Unless otherwise specified, all raceway shall be installed concealed. Raceway may be run exposed on unfinished walls, in attic spaces, in electrical rooms and when routed to surface panels, cabinets or gutters. E. Arrange raceway supports to prevent misalignment during wiring installation. F. Support raceway using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers. G. Group related raceway; support using conduit rack. Construct rack using steel channel; provide space on each for 25 percent additional raceways. H. Do not support raceway with wire or perforated pipe straps. Remove wire used for temporary supports I. Do not attach raceway to ceiling support wires or other piping systems. J. Construct wireway supports from steel channel. K. Route exposed raceway parallel and perpendicular to walls. L. Route raceway installed above accessible ceilings parallel and perpendicular to walls. M. Maintain clearance between raceway and piping for maintenance purposes. N. Maintain 12-inch clearance between raceway and surfaces with temperatures exceeding 104 degrees F. O. Cut conduit square using saw or pipe cutter; de-burr cut ends. P. Bring conduit to shoulder of fittings; fasten securely. Q. Install no more than equivalent of three 90-degree bends between boxes. Install conduit bodies to make sharp changes in direction, as around beams. Install factory elbows for bends in metal conduit larger than 2-inch size. R. Avoid moisture traps; install junction box with drain fitting at low points in conduit system. S. Install fittings to accommodate expansion and deflection where raceway crosses seismic and expansion joints. T. Install suitable pull string or cord in each empty raceway except sleeves and nipples. U. Install suitable caps to protect installed conduit against entrance of dirt and moisture. V. Close ends and unused openings in wireway.	
1.03	CODES AND STANDARDS	A. Work and materials shall be in full accordance with California Occupational Safety Health Act (CAL-OSHA), California Electrical Code (CEC), State Fire Marshal, Title 8, Safety Orders of Division of Industrial Safety (ESO), the National Fire Protection Association, California Building Code (CBC), California Code of Regulations - Title 24 and other applicable laws or regulations. Nothing in the Drawings or Specifications shall be construed to permit work not conforming to these codes. B. When Contract Documents differ from governing codes, furnish, and install larger size or higher standards called for without extra charge.		3.02 DRAWINGS AND COORDINATION: A. Examine Drawings and Site; be familiar with types of construction where electrical installation is involved. 1. Work shall be neatly installed in a workmanlike manner in accordance with NECA Standard of Installation. Work shall be coordinated with other trades to avoid conflicts. Clarifications will be made by Engineer and minor adjustments shall be made without additional cost to Owner. B. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial) but shall be followed as closely as possible. Drawings and Specifications are for assistance and guidance, and exact locations, distances, levels, etc., will be governed by Site.		3.11 INSTALLATION - BOXES: A. Contractor shall refer to Drawings, specifications, and submittals covering work of the other trades to coordinate outlet location. In the event of conflict between planned locations of outlet and other equipment or furnishing, Contractor shall not proceed until direction has been given by Architect. B. Orient boxes to accommodate wiring devices. C. Install pull boxes and junction boxes above accessible ceilings and in unfinished areas only. D. Locate flush mounting box in masonry wall to require cutting of masonry unit corner only. Coordinate masonry cutting to achieve neat opening. E. Do not fasten boxes to ceiling support wires or other piping systems. F. Support boxes independently of conduit. G. Junction box identification: All junction boxes located above suspended ceilings and below ceilings in non-public areas, shall be identified with permanent felt tip marker on cover indicating panel and circuit numbers. Black marker for normal branch power, Red marker for emergency branch power.	
1.04	QUALITY ASSURANCE:	A. Requirements of Regulatory Agencies: 1. Nothing in the Contract Documents shall be construed to permit Work not conforming to applicable codes, laws, ordinances, rules, or regulations. 2. All materials and equipment shall be installed in accordance with manufacturer's recommendations and in accordance with the National Electrical Contractors Association (NECA) Standard of Installation. 3. Equipment to be installed or permanently connected (hardwired) shall be listed, labeled, or certified by a Nationally Recognized Testing Laboratory (NRTL).		3.03 EQUIPMENT INSTALLATION: A. Provide metal backing plates, anchor plates, and similar items that are required for anchorage for the Work of this Section; securely weld or bolt to metal framing. Wood blocking or backing will not be permitted in combination with metal framing. B. Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage shall conform to the requirements of California Building Code. No allowance will be made for negligence to foresee means of placing, installing, or supporting equipment in position.		3.12 INSTALLATION - CIRCUIT BREAKERS IN EXISTING SWITCHBOARD: A. Modifications to existing switchboards shall be as indicated on the Drawings. New equipment shall match existing where possible and in all cases be compatible with existing. Where new breakers are installed in existing equipment, provide all hardware and trim pieces as required for a complete closed installation. Provide new nameplates at equipment where existing breakers are identified by nameplates and provide new breaker identification in directory where existing breakers are identified in a directory. B. Where new breakers are indicated to be installed in existing switchboard, but insufficient space exists, provide enclosed circuit breakers externally and tap existing bussing. Tap conduit and wire sizes shall be same as breaker line side conduit and wire.	
1.05	SPECIFICATIONS AND CONTRACT DRAWINGS	A. Accuracy of data given herein and on the drawings is as exact as could be secured, but their extreme accuracy is not guaranteed. The drawings and specifications are for the assistance and guidance of the Contractor and exact locations, distances, levels, etc., will be governed by the construction and the Contractor shall accept same with this understanding. B. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial and not exact) but shall be followed as closely as possible. Architectural, structural, mechanical, and other drawings shall be examined noting all conditions that may affect this work. Where connections to equipment provided by other divisions are shown on electrical drawings, refer to drawings of respective division for exact locations and electrical requirements of equipment. C. Report conflicting conditions to the Architect for adjustment before proceeding with work. Should Contractor proceed with work without reporting conflict(s), he does so on his own responsibility, and shall alter work if directed by the Architect, at his own expense. D. Right is reserved to make minor changes in locations of equipment and wiring systems shown, providing change is ordered before conduit runs and/or work directly connected to same is installed and no extra materials are required. E. Drawings and specifications may be superseded by later detail specification and detail drawings prepared by the Architect, and the Contractor shall conform to them and to such reasonable changes in the contract drawings as may be called for by these revised drawings without extra cost to the Owner. F. Contractor may request additional detail(s), and such shall be conformed to, without additional cost. Contractor may offer alternate detail(s), but such detail(s) shall be approved by Architect and authority having jurisdiction		3.04 FIRESTOPPING A. Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, ductwork, conduit, and other items, requiring firestopping. B. Apply primer where recommended by manufacturer for type of firestopping material and substrate involved, and as required for compliance with required fire ratings. C. Apply firestopping material in sufficient thickness to achieve required fire and smoke rating. D. Place intumescent coating in sufficient coats to achieve rating required. E. Remove dam material after firestopping material has cured. F. Fire Rated Surface: 1. Seal opening at floor, wall, partition, ceiling, and roof as follows: a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of building element. b. Size sleeve allowing minimum of 1-inch void between sleeve and building element. c. Pack void with backing material. d. Seal ends of sleeve with UL listed fire resistive silicone compound to meet fire rating of structure penetrated. 2. Where cable tray, bus, cable bus, conduit, wireway, and trough penetrates fire rated surface, install firestopping product in accordance with manufacturer's instructions. G. Non-Rated Surfaces: 1. Seal opening through non-fire rated wall, partition, floor, ceiling, and roof opening as follows: a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of building element. b. Size sleeve allowing minimum of 1-inch void between sleeve and building element. c. Install type of firestopping material recommended by manufacturer. 2. Install floor plates or ceiling plates where conduit, penetrates non-fire rated surfaces in occupied spaces. Occupied spaces include rooms with finished ceilings and where penetration occurs below finished ceiling. 3. Exterior wall openings below grade: Assemble rubber liners of mechanical seal to size of conduit and tighten in place, in accordance with manufacturer's instructions. 4. Interior partitions: Seal pipe penetrations at clean rooms, laboratories, hospital spaces, computer rooms, telecommunication rooms, and data rooms. Apply sealant to both sides of penetration to completely fill annular space between sleeve and conduit.		3.13 TESTING AND ADJUSTING: A. Furnish all labor and test equipment required for the Work of this Division. Testing work is defined as that work necessary to establish that equipment has been properly assembled, connected, and checked to verify that intent and purpose of Drawings, manufacturer's instruction manuals, and directions of Architect have been accomplished in satisfactory manner. B. Test each individual circuit at panel with equipment connected for proper operation.	
1.06	SYSTEM DESCRIPTION:	A. Raceway and boxes located as indicated on Drawings, and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system. B. Conductor sizes are based on copper unless indicated as aluminum or "AL". C. When aluminum conductor is substituted for copper conductor, size to match circuit requirements, terminations, conductor ampacity and voltage drop. Contractor shall be responsible for verifying maximum number of aluminum conductors for substituted copper conductors in specified conduit. D. All wiring shall be installed in raceway. E. Outdoor Locations, Above Grade: Provide galvanized rigid steel conduit. Provide cast metal outlet, pull, and junction boxes. F. Wet and Damp Locations: galvanized rigid steel conduit. Provide cast metal outlet, junction, and pull boxes. Provide flush mounting outlet box in finished areas. G. Concealed Dry Locations: Provide electrical metallic tubing. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes where shown on drawings. H. Exposed Interior Dry Locations: Use rigid steel conduit below eight feet or where subject to damage. Use electrical metallic tubing above eight feet in electrical or mechanical rooms. Use sheet-metal or cast metal boxes. Use flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes. I. Product requirements: Provide products as follows: 1. Stranded conductor for feeders and branch circuits. 2. Increase wire size in branch circuits to limit voltage drop to a maximum of 3 percent. J. Conductor Applications: 1. Do not use conductors for applications other than as permitted by NFPA 70 and product listing. 2. Provide single conductor building wire installed in suitable raceway unless otherwise indicated, permitted, or required. 3. Armored cable is not permitted. 4. Concealed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 5. Exposed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 6. Wet or Damp Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 7. Exterior Locations: Use only building wire, Type XHHW-2 insulation, in raceway. K. Wiring Device Applications: 1. Provide wiring devices suitable for intended use and with ratings adequate for load served.		1.15 OPERATING TEST A. After the installation is complete, and at such time as the Engineer and other authorities having jurisdiction may request, the Contractor shall conduct an operating test for approval.		END OF SECTION	
PART 2 PRODUCTS		2.01 DESIGN REQUIREMENTS: A. Minimum Raceway Size: 1. 1 inch for homeruns unless otherwise specified.		3.05 PROTECTION: A. In performance of work, protect work from damage. Protect electrical equipment, stored, and installed, from dust, water, or other damage.			
2.02 BUILDING WIRE:		A. Product Description: Single conductor insulated wire. B. Conductor: Copper Stranded. C. Insulation Voltage Rating: 600 volts. D. Insulation Temperature Rating: 90 degrees C. E. Copper Building Wire in Conduit: Type THHN/THWN-2.		3.06 INSTALLATION OF BRANCH CIRCUITS: A. Dedicated branch circuits shall have dedicated neutrals. B. Accomplish grounding of electrical system by using insulated grounding conductor installed with feeders and branch circuit conductors in conduits. Install from grounding bus of serving panel to ground bus of served panel, grounding screw or receptacles, lighting fixture housing, light switch outlet boxes or metal enclosures of service equipment. Ground conduits by means of grounding bushings on terminations at panelboards with installed number 12 AWG copper conductor to grounding bus.			
2.03 WIRING CONNECTORS:		A. Description: Wiring connectors appropriate for the application, suitable for use with the conductors to be connected, and listed as complying with UL 486A-486B or UL 486C as applicable. B. Connectors for Grounding and Bonding. C. Wiring Connectors for Splices and Taps: 1. Copper Conductors Size 8 AWG and Smaller: Use twist-on insulated spring connectors. 2. Copper Conductors Size 6 AWG and Larger: Use pre-insulated mechanical connectors or compression connectors. D. Wiring Connectors for Terminations: 1. Provide terminal lugs for connecting conductors to equipment furnished with terminations designed for terminal lugs. 2. Provide compression adapters for connecting conductors to equipment furnished with mechanical lugs when only compression connectors are specified. 3. Where over-sized conductors are larger than the equipment terminations can accommodate, provide connectors suitable for reducing to appropriate size, but not less than required for the rating of the overcurrent protective device. 4. Copper Conductors Size 8 AWG and Larger: Use mechanical connectors or compression connectors where connectors are required. 5. Conductors Size 10 AWG and Smaller: Use crimped terminals for connections to terminal screws. E. Do not use insulation-piercing or insulation-displacement connectors designed for use with conductors without stripping insulation. F. Do not use push-in wire connectors as a substitute for twist-on insulated spring connectors. G. Twist-on Insulated Spring Connectors: Rated 600-volt, 221 degrees F for standard applications and 302 degrees F for high temperature applications; pre-filled with sealant and listed as complying with UL 486D for damp and wet locations. H. Mechanical Connectors: Provide bolted type. I. Compression Connectors: Provide circumferential type or hex type crimp configuration. J. Crimped Terminals: Nylon-insulated, with insulation grip and terminal configuration suitable for connection to be made.		3.07 EQUIPMENT IDENTIFICATION: A. Provide screwed-on engraved nameplates of black lamicoid with 0.75-inch high white lettering for main switchboards (including each breaker and switch), all panelboards, transformers, all relays, timers, terminal cabinets (including each section) and all special panels and consoles. B. Provide identifying numbers for each breaker in a permanently attached (not pasted on) directory with plexiglass cover with typewritten identification of each circuit. C. Provide screwed-on engraved nameplates of black lamicoid with white 0.5-inch high lettering, identifying function, for all disconnect switches and starters. D. Provide labels at each end of each pull cord for all empty conduits/raceways. E. Indicate type of equipment, equipment designation and origination, ex. "PANEL-XXX fed from SWITCHBOARD-XXX", PANEL-XXX fed from TRANSFORMER-XXX", etc.			
2.04 METAL CONDUIT:		A. Rigid Steel Conduit: ANSI C80.1. B. Fittings and Conduit Bodies: NEMA FB 1. Fittings shall be steel/malleable iron with threaded fittings. Use insulated metallic bushings with lug where ground connections are required. Use plastic bushing for non-bonding applications.		3.08 INSTALLATION - CONDUCTORS: A. Route wire to meet Project conditions. B. Neatly train and lace wiring inside boxes, equipment, and panelboards. C. Identify and color code wire under wire color section. Identify each conductor with its circuit number or other designation indicated. D. Special Techniques—Building Wire in Raceway: 1. Pull conductors into raceway at same time. 2. Install building wire 4 AWG and larger with pulling equipment. E. Special Techniques - Wiring Connections: 1. Clean conductor surfaces before installing lugs and connectors. 2. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise. 3. Tape uninsulated conductors and connectors with electrical tape to 150 percent of insulation rating of conductor. 4. Install split bolt connectors for copper conductor splices and taps, 6 AWG and larger. 5. Install solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller. 6. Install insulated spring wire connectors with plastic caps for copper conductor splices and taps, 10 AWG and smaller. F. For stranded conductors, use crimp on fork terminals for device terminations. Do not place bare stranded conductors directly under device screws G. Install terminal lugs on ends of 600-volt wires unless lugs are furnished on connected device, such as circuit breakers. H. Size lugs in accordance with manufacturer's recommendations terminating wire sizes. Install 2-hole type lugs to connect wires 4 AWG and larger to copper bus bars. I. For terminal lugs fastened together such as on motors, transformers, and other apparatus, or when space between studs is small enough that lugs can turn and touch each other, insulate for dielectric strength of 2-12 times normal potential of circuit.			
2.05 ELECTRICAL METALLIC TUBING:		A. Product Description: ANSI C80.3; galvanized tubing. B. Fittings and Conduit Bodies: NEMA FB 1; steel couplings and connectors. Box connectors shall have with insulated throat. Set screw type couplings.		3.09 WIRE COLOR: A. General: 1. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices, and boxes. Colors are as follows: a. Orange, brown, and yellow for circuits at 277/480 volts single or three phase. B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number. C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded.			
2.06 FLASH PROTECTION:		A. Electrical equipment including switchboards, panelboards, disconnect switches, etc. which are likely to require examination, adjustment or servicing while energized shall be field marked to warn of potential electric arc flash hazards per CEC Article 110.16. Marking shall be a pre-printed label which references NFPA 70E.					
2.07 NAMEPLATES:		A. Product Description: Laminated three-layer plastic with engraved letters on contrasting background color. B. Letter Size: 1. 0.125-inch high letters for identifying individual equipment and loads.					
A. Drawings: 1. For purposes of clarity and legibility, Drawings are essentially diagrammatic to the extent that many offsets, bends, special fittings, and the exact locations of items are not shown, unless specifically dimensioned. 2. Exact routing of wiring and locations of outlets, panels, and other items, shall be governed by structural conditions, and materials and equipment already in place. Use data in the Contract Documents. In addition, the Architect reserves the right, at no increase in Contract Sum, to make any reasonable change in locations of exposed electrical items, to group them into orderly relationship and/or increase their utility. Verify the Architect's requirements in this regard prior to roughing-in. 3. Dimensions, locations of doors, partitions and similar physical features shall be taken from Architectural Drawings and verified at the site as part of the Work of this Division. Consult the Architectural Drawings for exact location of outlets to center with architectural features, panels, and similar items, at the approximate locations shown on the Electrical Drawings. 4. Drawings indicate, generally, routes of all branch circuits. All runs to panels are indicated as starting from nearest outlet, pointing to direction of panel. Continue all such circuits, conduits to panel as though routes were indicated in their entirety. B. Coordination: 1. Work out all "tight" conditions involving Work of this Division and Work of other Divisions in advance of installation. Provide additional Work necessary to overcome "tight" conditions, at no increase in Contract Sum. 2. Differences of disputes concerning coordination, interference or extent of Work between Divisions shall be decided by Contractor. If the decision is consistent with Contract Document requirements, then it shall be final. 3. Coordinate electrical interface of mechanical equipment with Mechanical and Plumbing. 4. Provide templates, information, and instructions for Work of other Divisions to properly locate holes and openings to be cut or provided for Electrical Work. 5. Make every effort to keep existing electrical circuits, including telephone, public address, fire alarm, power, and other electrical services, in operation. Where power outages are unavoidable, schedule such outages with the Owner to occur at such times as to cause the least disruption of normal facility functions. C. Equipment Rough-In: 1. Rough-in locations shown on Electrical Drawings for equipment furnished by the Owner and for equipment furnished under other Divisions are approximate only. Obtain exact rough-in locations from the following sources: a. From Shop Drawings for Contractor-furnished and installed equipment. b. From the Architect for Owner-furnished, Contractor-installed equipment. c. From the Architect for existing equipment where such equipment is relocated as part of the Work of this Contract. 2. Verify electrical characteristics of equipment before starting rough-in. 3. Unless otherwise shown or specified, equipment which requires electrical connection shall be installed as part of the							

APP: 02-120573 INC:

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DATE: 02/02/2023

aedis

architects

www.aedisarchitects.com

387 S.1st Street, Suite 300

San Jose, CA 95113

tel: (408)-300-5160

fax: (408)-300-5121

PROJECT

SOLANO CCD

FAIRFIELD POOL DECK

REPLACEMENT

SOLANO

COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

EDGE

ELECTRICAL CONSULTING

1801 7th Street

Suite 150

Sacramento, CA 95811

916.256.2460

1151 Harbor Bay Pkwy

Suite 1235

Alameda, CA 94502

510.634.7200

Project Number J418

Contact Nemo

12/02/2022

STATE

DSA FILE NUMBER

48-C1

APPL #

02-12057

REVIEWS

No.

Description

Date

△

MILESTONES

50% CD

08.24.2

95% CD

09.23.2

DSA SUB

10.06.2

DSA BACK CHECK

12.15.2

SHEET

ELECTRICAL

SPECIFICATIONS

E0.03

DATE

12/15/2022

JOB #

2022013

SHEET #


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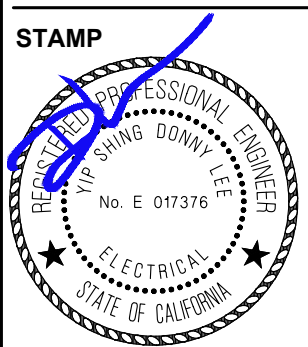
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387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408) 300-5160
fax: (408) 300-5121

PROJECT
SOLANO CCD
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SOLANO
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DISTRICT
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1801 7th Street
Suite 150
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916.256.2460
Project Number J418 Contact Name

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12/02/2022

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REVISIONS
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MILESTONES

50% CD	08.24.22
95% CD	09.23.22
DSA SUB	10.06.22
DSA BACK CHECK	12.15.22

SHEET
ELECTRICAL
SPECIFICATIONS

DATE 12/15/2022
JOB # 2022013
SHEET # E0.03



PROPOSED LOCATION FOR THE (N) 80A/3P BREAKER.
CONTRACTOR TO FIELD VERIFY AND DETERMINE THE
BEST LOCATION FOR THE NEW CIRCUIT BREAKER.

- NUMBERED NOTES
- 1

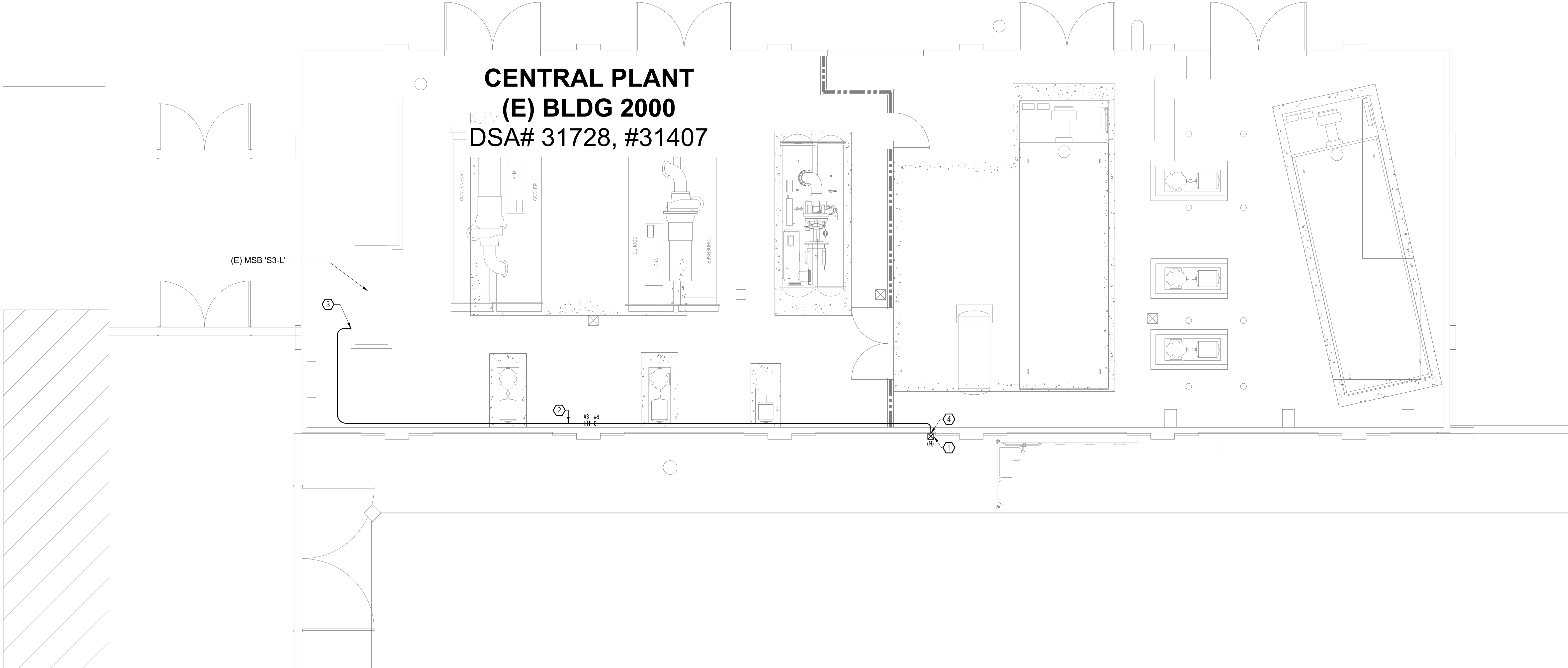
(N) WATER HEATER WITH MANUFACTURER PROVIDED INTEGRAL FUSED DISCONNECT, 480V/3PH, 54 KW. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 2

PROPOSED 1.25" CONDUIT ROUTING, PENETRATING TO INTERIOR WALL. ROUTE CONDUIT TO MAIN SWITCHBOARD 'S3-L' IN THE CENTRAL PLANT BUILDING 2000.
- 3

PROVIDE (N) 80A/3P CIRCUIT BREAKER, MATCH EXISTING SHORT CIRCUIT RATING. PROVIDE ALL NECESSARY HARDWARE, RAILS, ETC. FOR A COMPLETE INSTALLATION.
- 4

SEAL PENETRATION WEATHERTITE.

2 EXISTING MAIN SWITCHBOARD ELEVATION
NO SCALE



1 ENLARGED PLAN - BUILDING 2000 - ELECTRICAL
SCALE: 1/4" = 1'-0"



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architects

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tel: (408) 300-5160
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1801 7th Street
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Sacramento, CA 95811
916.256.2400
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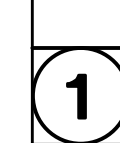

MILESTONES



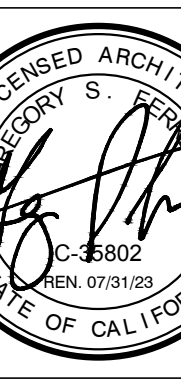
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95% CD	09.23.22
DSA SUB	10.06.22
DSA BACK CHECK	12.15.22

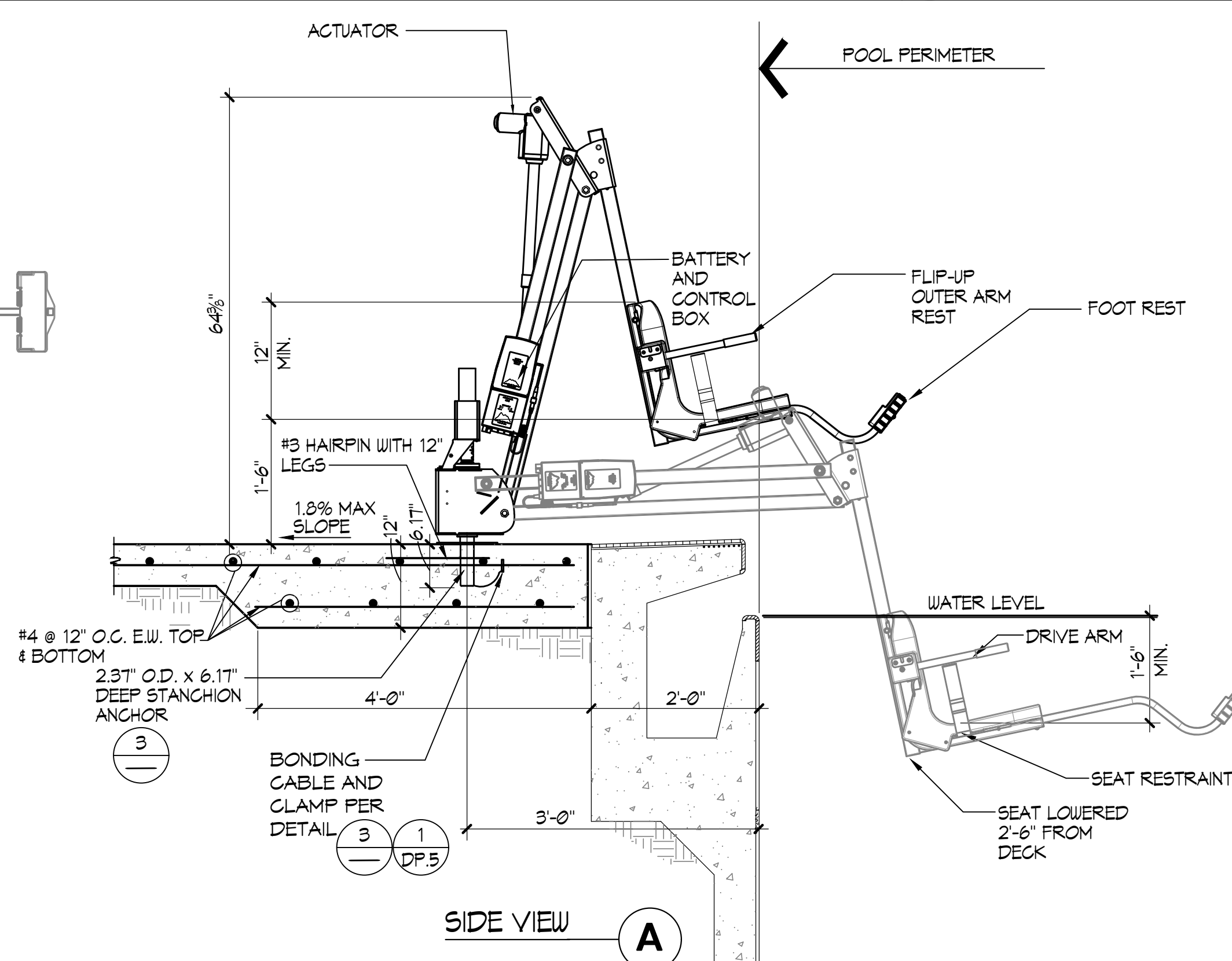
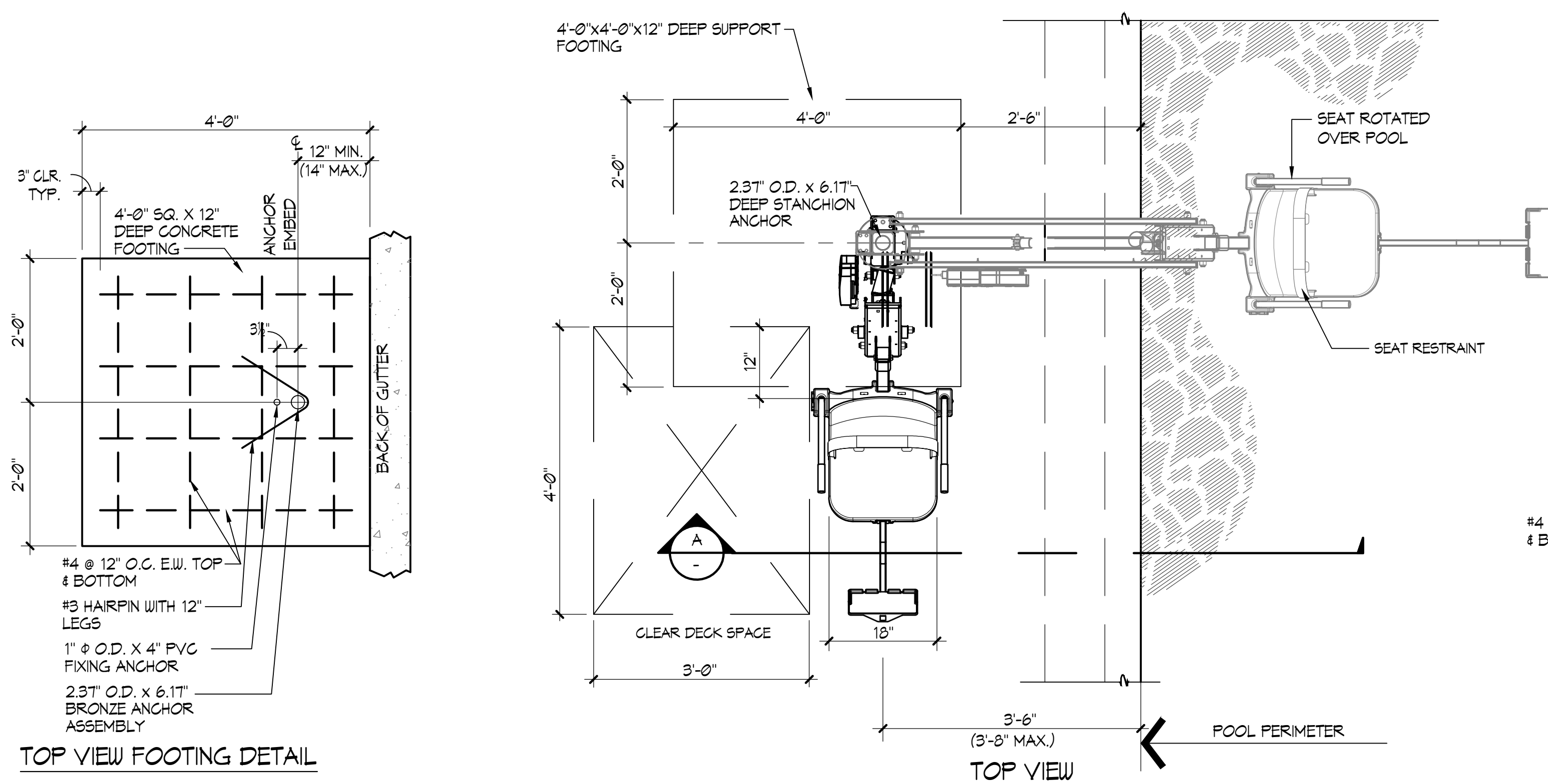
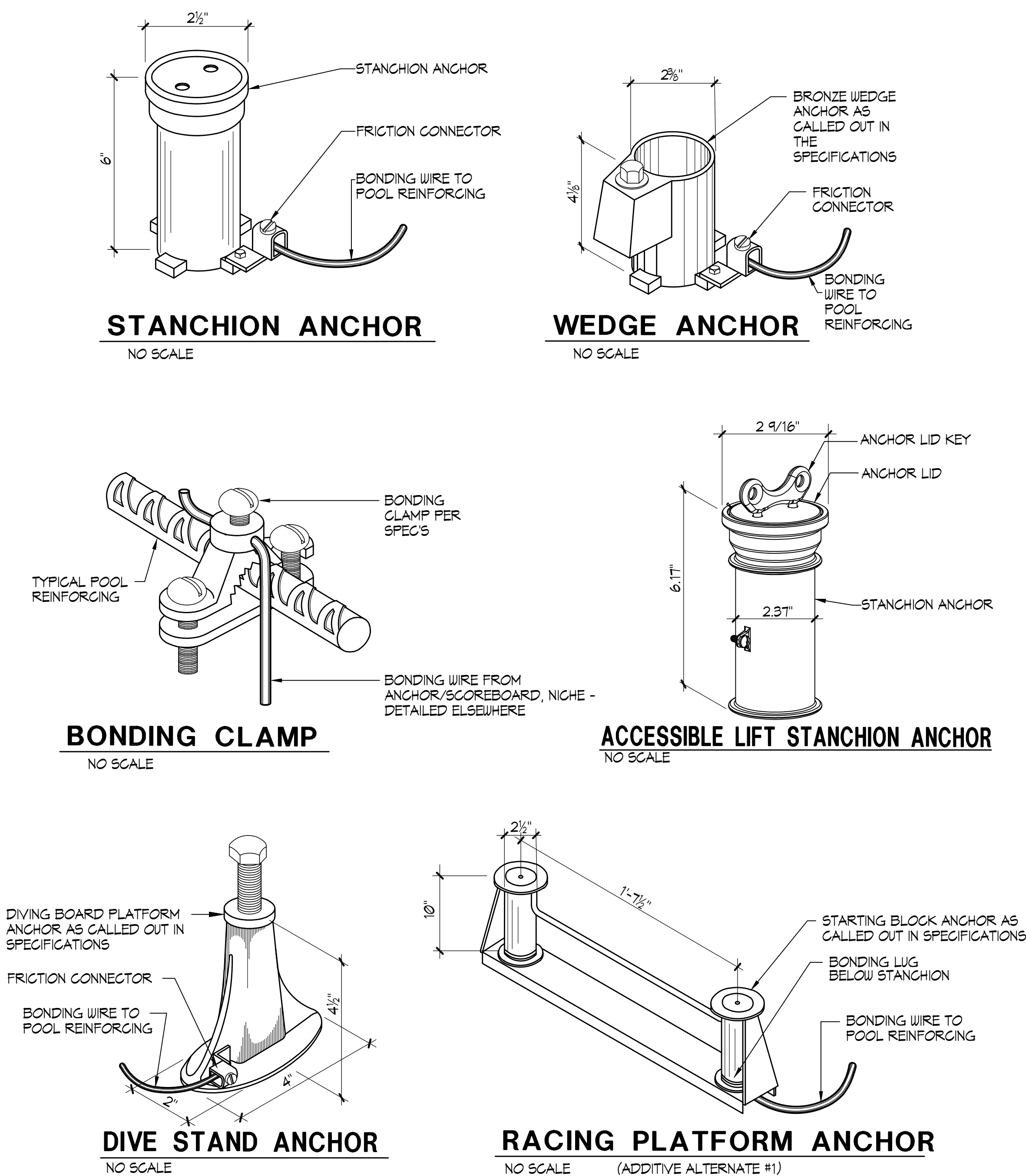
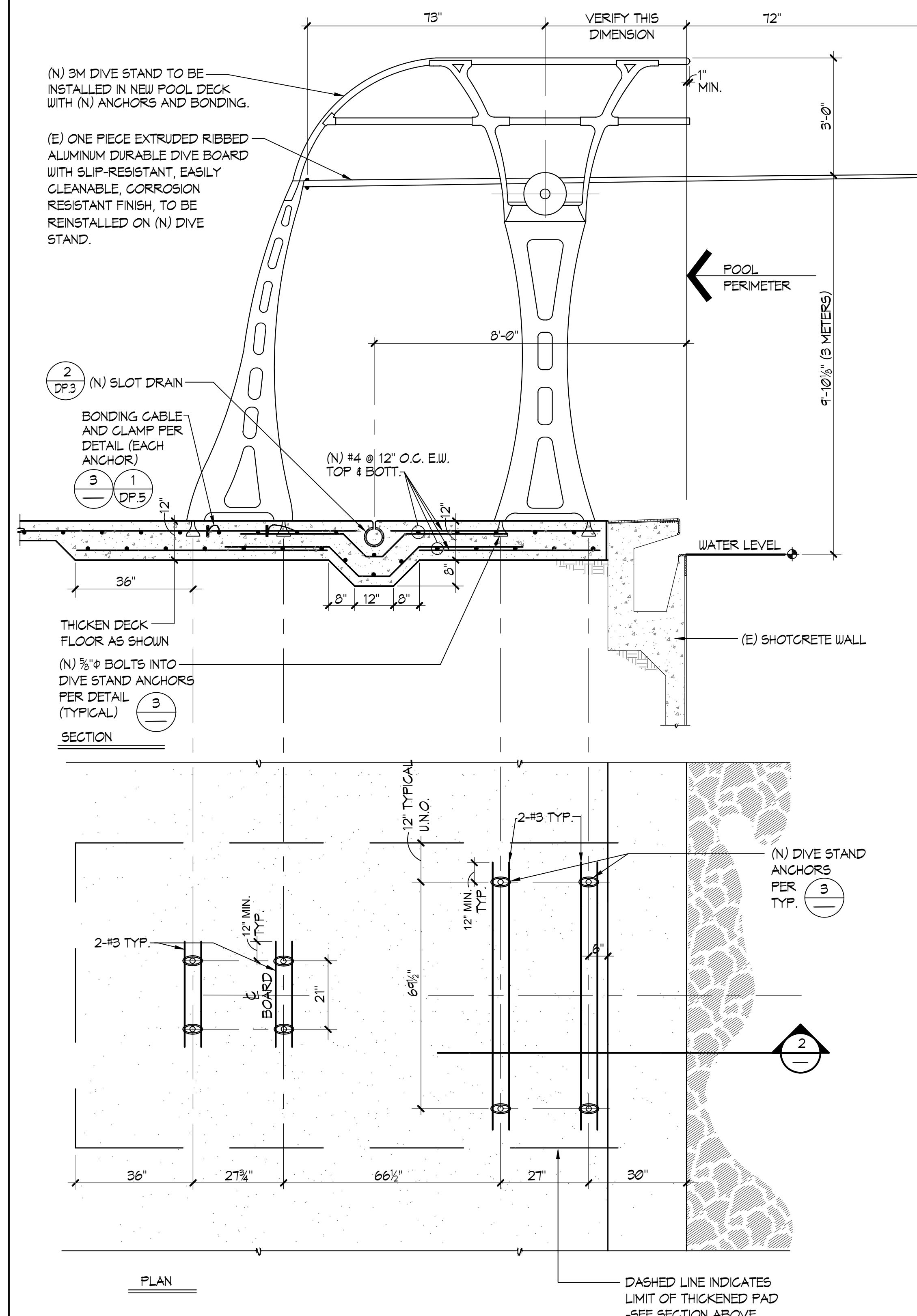
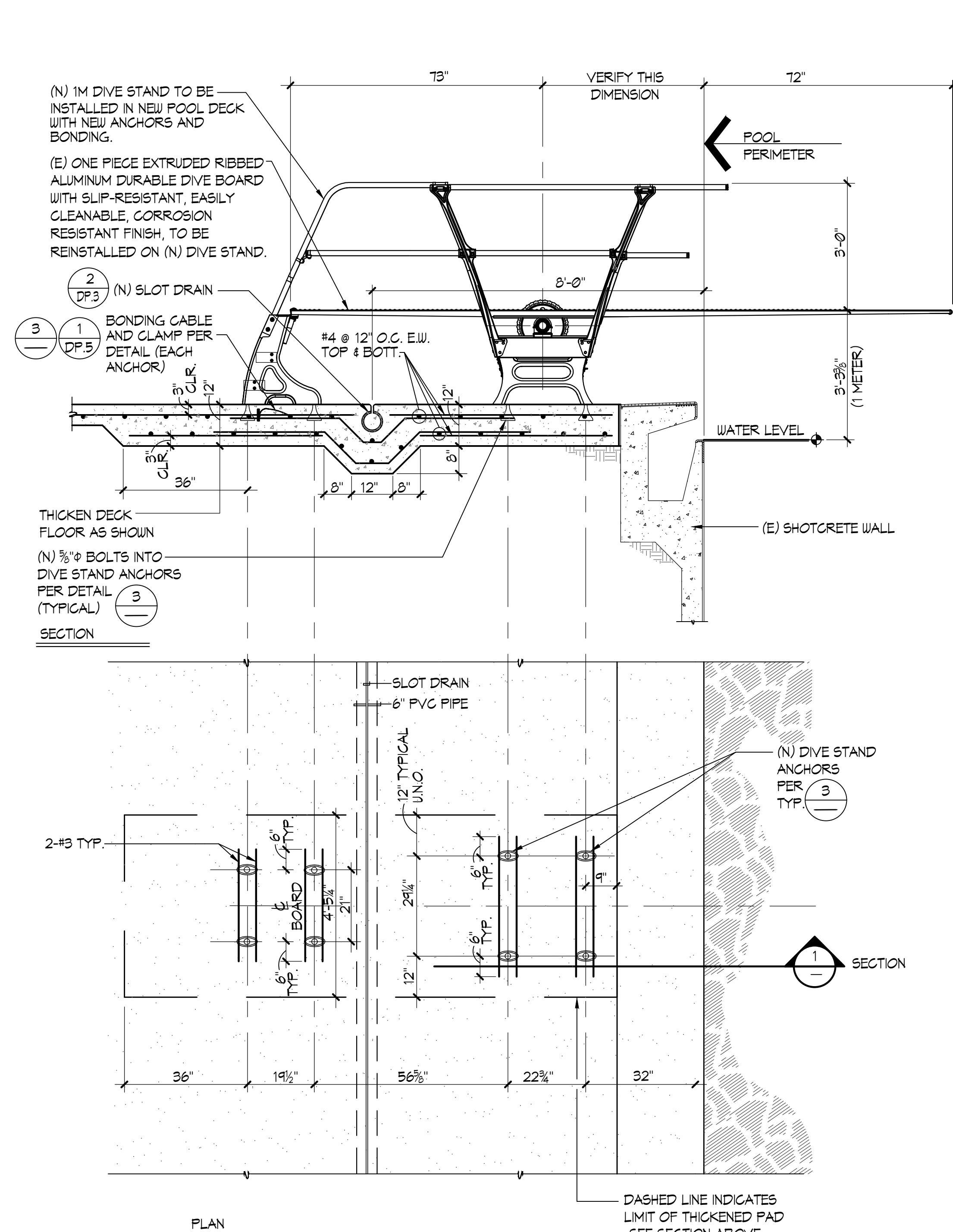
SHEET

ENLARGED PLAN -
BUILDING 2000 -
ELECTRICAL

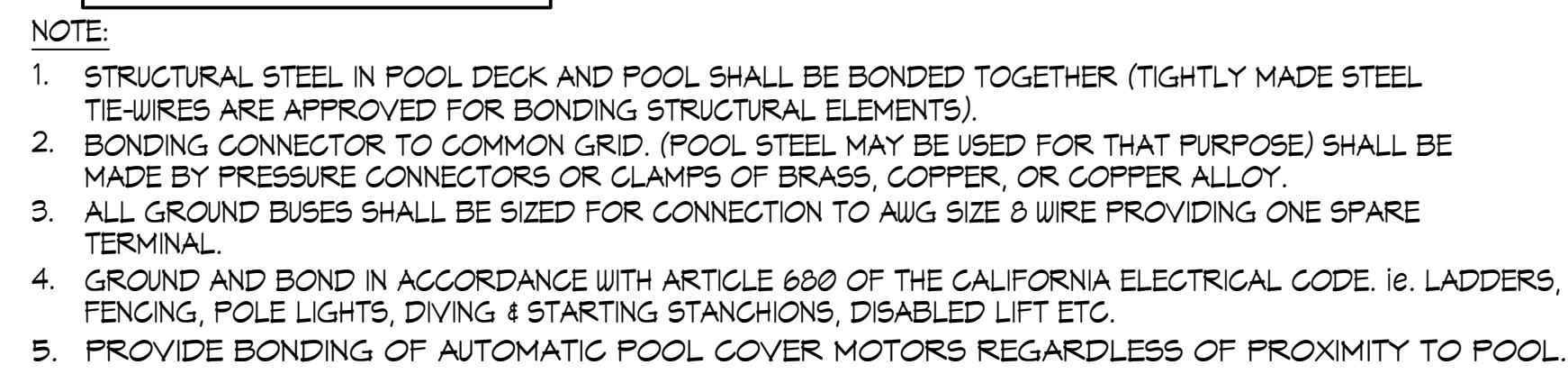
DATE 12/15/2022
JOB # 2022013
SHEET #
E3.10


$$\frac{1}{8}'' = 1'-0''$$


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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h1 style="margin: 0;">aedis</h1> <p style="margin: 0;">architects</p> </div> <div style="flex: 1; text-align: right;"> <p style="font-size: small; margin: 0;">www.aedisarchitects.com 387 S. 1st Street, Suite 300 San Jose, CA 95113 tel: (408)-300-5160 fax: (408)-300-5121</p> </div> </div>										
PROJECT SOLANO CCD FAIRFIELD POOL DECK REPLACEMENT										
										
SOLANO COMMUNITY COLLEGE DISTRICT CONSULTANT										
 <p style="font-size: small; margin: 0;">2226 Faraday Ave. Carlsbad, CA 92008 AquaticDesignGroup.com 760.438.8400</p>										
STAMP <div style="text-align: center;">  </div>										
STATE DSA FILE NUMBER 48-C1 APPL # 02-120573										
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MILESTONES <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 60%;">50% CD</td> <td style="width: 40%;">08.24.22</td> </tr> <tr> <td>95% CD</td> <td>09.23.22</td> </tr> <tr> <td>DSA SUB</td> <td>10.06.22</td> </tr> <tr> <td>DSA BACK CHECK</td> <td>12.15.22</td> </tr> </tbody> </table>			50% CD	08.24.22	95% CD	09.23.22	DSA SUB	10.06.22	DSA BACK CHECK	12.15.22
50% CD	08.24.22									
95% CD	09.23.22									
DSA SUB	10.06.22									
DSA BACK CHECK	12.15.22									
SHEET EXISTING SWIMMING POOL DEMOLITION PLAN										
DATE 12-15-22										
JOB # 2022013										
SHEET # DP.1										



- ## NOTES:
1. 'AQUA CREEK' MIGHTY 400 F-MTY-400 (350 lbs. MIN. LIVE LOAD AND 400 lbs. MAX. LIFTING CAPACITY)
 2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
 3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'AQUA CREEK'; EXTRA BATTERY PACK 'AQUA CREEK' HF-004AB; AND TRANSPORTER CART 'AQUA CREEK' HF-MTTC.
 4. UTILIZE OUTLET IN OFFICE FOR DISABLED LIFT BATTERY CHARGE STATION.
 5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP UNLESS ENTIRE POOL IS DEEPER THAN 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 SEAT 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.



(N) WATERPOLO GOAL ASSEMBLY
- VERIFY DIMENSIONS AND
INSTALL PER MANUFACTURER
CALLED OUT IN SPEC'S
VERTICALLY ADJUSTABLE

(3)
DP 4 (N) STATION
ANCHOR SOCKET
ONLY WITH CAP
PROVIDE (3)
#3 BARx36" @ STATION
THUS:

18"
6"
15"
6" MIN.
DECK EDGE

(3)
DP 4 BONDING CABLE AND CLAMP
PER DETAIL (EACH ANCHOR)

(E) POOL REINFORCING

2'-6"
VERIFY

2'-4"

1'-6"

DECK ELEV.
PER PLAN

WATER LINE

(N) WHITE NON-SLIP
TILE BUMPER PLATES TYP.
EA. LEG (6'x 6')

POOL PERIMETER

3'-0" WHEN POOL IS 5'-0" OR GREATER
VARIES

1"

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7 S. 1st Street, Suite 300
San Jose, CA 95113
Tel: (408)-300-5160
Fax: (408)-300-5121



HOLLANO
COMMUNITY COLLEGE



QUATIC
DESIGN GROUP
Faraday Ave. Carlsbad, CA 92008
AcquaticDesignGroup.com
760.438.8400

CA FILE NUMBER 48-C1
PPL # 02-120573

No.	Description	Date
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LESTONES

0% CD	08.24.22
5% CD	09.23.22
SA SUB	10.06.22
SA BACK CHECK	12.15.22

MEET

DETAILS

12-15-22

2022013

MEET #

DP.5