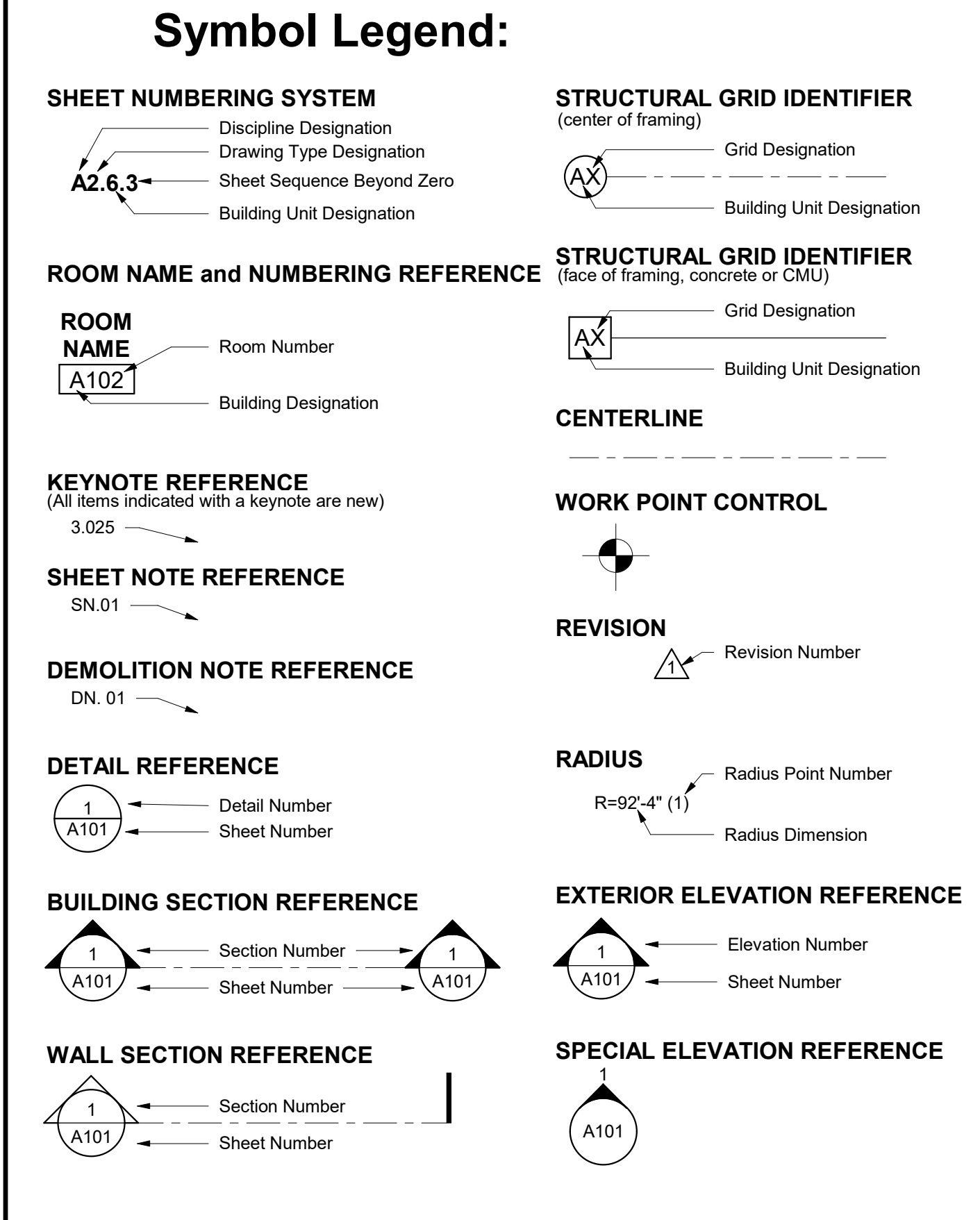


Abbreviations:		
A	And	F.R.P.
@	Angle	FIN
C	Centerline	F.F.E.
D	Degree	F.F.E.
F	Ferrous	F.F.E.
F.P.	Fire Alarm	F.A.
F.F.	Fire Extinguisher	F.E.C.
A.F.F.	Above Finish Floor	FLASH
ACOUS.	Acoustical	F.H.M.B.
ADJ.	Adjustable	F.H.M.S.
AGGR.	Aggregate	F.H.W.S.
ALUM./AL.	Aluminum	FL.FLR.
AD	Area Drain	F.D.
A.V.	Audio Visual	FT.
AUTO.	Automatic	FTQ.
BM	Beam	FURR.
BLK	Block	GALV.
BLKG.	Blocking	G.I.
BD.	Board	G.S.M.
BOT	Bottom	G.W.H.
BUILDG.	Building	GA.
CAB.	Cabinet	GLU/LAM./G.L.B.
CATV	Cable T.V.	GR.
C.I.	Cast Iron	GYP.
CLB.	Catch Basin	GYP.BD.
CLKG.	Caulking	HDR.
CNTR./CTR.	Center	HWAC
CER.	Ceramic	H.H.T.
CH	Chain Link	H.M.
CB	Chalkboard	H.M.
CL	Classroom	H.M.
CLR.	Clear	H.M.
C.W.	Cold Water	HORIZ.
COL.	Column	H.B.
CONC.	Concrete	HR.
C.M.U.	Concrete Masonry Unit	IN.
CONN.	Connection	INFO.
CONSTR.	Construction	INSUL.
C.J.	Construction Joint	INT.
CONT.	Continuous	INV.
CNTR.	Contractor	JAN.
CORR.	Corrosion	J.C.Y.
C.M.P.	Corrugated Metal Pipe	JST.
CUST.	Custodian	KP.
D	Deep/Depth	KIT.
DET / DTL	Detail	LA.
DIMS	Dimension	LAM.
DIA / Ø	Diameter	LAV.
DIM	Dimension	L.V.
DIM PT.	Dimension Point	L.T.WT.
DIS.	Disable/Accessible	L.F.
DW.	Dishwasher	M.B.
DR.	Door	M.B.
DBL.	Double	M.H.
DN	Down	MFR.
DWG.	Drawing	M.O.
D.W.G.	Drinking Fountain	MATL.
D.F.	Each	MECH.
E	East	MEZ.
ELEC.	Electrical	MIN.
E.W.C.	Electric Water Cooler	MISC.
E.W.H.	Electric Water Heater	M.P.
EL./ELEV.	Elevation	(N)
EMER.	Emergency	NOM.
ENCL.	Enclosure	N.
EQ.	Equal	N.I.C.
(E)EXIST.	Existing	N.T.S.
EXP.	Expansion	NO.#
E.J.	Expansion Joint	O.F.O.I.
EXT.	Exterior	O.F.C.I.
F.O.C.	Face of Concrete/Curb	O.C.
F.O.F.	Face of Finish	O.P.P.
F.O.S.	Face of Studs	O.H.
FB	Fiberglass	O.H.W.S.
F.R.L.	Fiberglass Reinforced Laminate	OA.
F.D.F.	Field Verify	P.D.F.
F.V.	Field Verify	PT.
F.P./PART.	Finish Partition	PR.
PEN.	Penetration	PERF.
PERF.	Perforated	P.LAM.
P.LAM.	Plastic Laminate	PL.
PL.	Plate	P.V.
PLYWD.	Plywood	PLYWD.
PL.	Plastic	PRE-FAB.
PREFAB.	Prefabricated	P.H.F.
P.H.F.	Pressed Metal Frame	P.T./P.T.D.F.
P.T./P.T.D.F.	Pressure Treated Douglas Fir	R.
R	Radius/Riser	R.W.L.
R.W.L.	Rain Water Leader	RDWD.
RDWD.	Redwood	REF.
REF.	Refrigerator	REINF.
REINF.	Reinforced	REQD.
REQD.	Required	RET.
RET.	Return	R.D.
R.D.	Roof Drain	RM.
RM.	Room	R.G.
R.G.	Rough Opening	R.H.W.S.
R.H.W.S.	Round Head Wood Screw	R.B.
R.B.	Rubber Base	R.B.
R.B.	Rubber Base	SECT.
SECT.	Section	S.S.K.
S.S.K.	Service Sink	SHT.
SHT.	Sheet	S.M.
S.M.	Sheet Metal	S.M.S.
S.M.S.	Sheet Metal Screw	S.
S.	Similar	S.S.V.
S.S.V.	Sheet Vinyl	SHR./SHWR.
SHR./SHWR.	Shower	S.
S.	Solid Core	S.C.
S.C.	South	S.
S.	Specification	SQ.
SQ.	Square	SST./S.S.
SST./S.S.	Stainless Steel	STD./STND.
STD./STND.	Standard	STL.
STL.	Steel	STOR.
STOR.	Storage	S.
S.	Storm Drain	S.D.S.T.
S.D.S.T.	Self-Drilling Self-Tapping	S.F.
S.F.	Square Feet	S.F.
S.F.	Structural	SUSP.
SUSP.	Suspended	SYM.
SYM.	Symbol	TB.
TB.	Tackboard	TEL./TELE.
TEL./TELE.	Telephone	T.V.
T.V.	Television	T.CLR.
T.CLR.	Tempered Clear	T.L.T.
T.L.T.	Tempered Low Transmission	THK.
THK.	Thick	THRES.
THRES.	Threshold	THRU.
THRU.	Through	T.L.T.
T.L.T.	Toilet	T&G
T&G	Tongue & Groove	T.O.
T.O.	Top	T.O.C.
T.O.C.	Top of Curb	T.O.P.
T.O.P.	Top of Pavement	T.O.W.
T.O.W.	Top of Wall/Top of Walk	T.S.
T.S.	Tube Steel	TYP.
TYP.	Typical	U.O.N.
U.O.N.	Unless Otherwise Noted	VERT.
VERT.	Vertical	V.G.D.F.
V.G.D.F.	Vertical Grain Douglas Fir	V.W.C.
V.W.C.	Vinyl Wall Covering	W.C.
W.C.	Wainscot	W.C.
W.C.	Water Closet	W.H.
W.H.	Water Heater	WT.
WT.	Weight	W.W.M.
W.W.M.	Wet/Wash	W.
W.	Window	W.D.W.
W.D.W.	Window	W.G.
W.G.	Wire Glass	W/O.
W/O.	Without	WB.
WB.	Wood	YD.
YD.	Yard	Y.D.
Y.D.	Yard Drain	



PROJECT NO. 21-1504.04
 DATE: 3/3/22
 SHEET **A0.1**

SHADE STRUCTURE AT NEW JOSEPH BONNHHEIM ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Architect:
Rainforth Grau Architects
 2101 Capitol Avenue, Suite 100
 Sacramento, CA 95816
 916.368.7990

Owner:
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 5737 47TH AVENUE
 SACRAMENTO, CA 95824
 916.643.7400

Contact: VIPUL SAFI

Consultants:

CIVIL ENGINEER: WARREN CONSULTING ENGINEERS 1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 916.985.1870 ATTN: ANTHONY TASSANO	ELECTRICAL ENGINEER: PETERS ENGINEERING 7750 COLLEGE TOWN DRIVE, SUITE 101 SACRAMENTO, CA 95826 916.447.2841 ATTN: GINO ROMANO
--	--

Contact: MIKE TAXARA

Project Information:

SITE LOCATION
 7300 Marin Avenue
 Sacramento, CA 95820

Project Scope:

INSTALLATION OF (1) 30' X 64' PC SHADE STRUCTURE AND RELATED CONCRETE PAD, UPGRADES TO ACCESSIBLE PATH OF TRAVEL, PARKING AND RESTROOMS. RELATED SITE AND ELECTRICAL WORK.

SCHEDULE OF ALTERNATES:

ALTERNATE NO. 1: CRACK REPAIR, SEAL COAT AND RESTRIPIING
 A. The contractor is responsible for determining the extent of crack repair at (e) hardout. Place 2 coats of seal coat on existing paving. Seal coat to be provided over entirety of (e) hardout. The contractor is responsible for verifying (e) stripping condition and verifying exact layout to be restriped with District.

FIRE SAFETY: THE CONTRACTOR SHALL COMPLY WITH CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

Sheet Index

GENERAL	
A0.1	COVER SHEET
A0.2	TYPICAL MOUNTING HEIGHTS AND DETAILS
A0.7	LOCAL FIRE AUTHORITY SITE PLAN
CIVIL	
C0.1	CIVIL GENERAL NOTES AND ABBREVIATIONS
C1.1	DEMOLITION PLAN
C2.1	GRADING AND PAVING PLAN
ARCHITECTURAL	
A1.1.0	SITE PLAN AND CODE INFORMATION
A1.1.1	PARTIAL SITE PLANS AND DETAILS
A1.1.2	PARTIAL SITE PLANS AND DETAILS
A2.1.1	TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS
ELECTRICAL	
E0.1	SYMBOLS, NOTES
E1.1	SITE PLAN - ELECTRICAL
E2.1	ONE LINE DIAGRAM
E3.1	DETAILS
E3.2	DETAILS
TOTAL SHEET COUNT:	15

Applicable Codes:

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 TITLE 24, CCR, PART 1, 2019 CALIFORNIA ADMINISTRATIVE CODE
 TITLE 24, CCR, PART 2, 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2
 TITLE 24, CCR, PART 3, 2019 CALIFORNIA ELECTRICAL CODE
 TITLE 24, CCR, PART 4, 2019 CALIFORNIA MECHANICAL CODE
 TITLE 24, CCR, PART 5, 2019 CALIFORNIA PLUMBING CODE
 TITLE 24, CCR, PART 6, 2019 CALIFORNIA ENERGY CODE
 TITLE 24, CCR, PART 9, 2019 CALIFORNIA FIRE CODE
 TITLE 24, CCR, PART 10, 2019 CALIFORNIA EXISTING BUILDING CODE
 TITLE 24, CCR, PART 11, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
 TITLE 24, CCR, PART 12, 2019 CALIFORNIA REFERENCED STANDARDS CODE

NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDMENTS)
 NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDMENTS)

UL 464, 2003 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521, 7TH EDITION, 1999 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

THE CONTRACTOR SHALL KEEP TITLE 24, CCR, PARTS 1-15 ON THE BUILDING SITE AT ALL TIMES.

DSA Procedures:

- ADDENDA MUST BE STAMPED AND SIGNED BY THE ARCHITECT OF RECORD AND APPROVED BY DSA IN ACCORDANCE WITH CCR TITLE 24, PART 1.
- THE CONTRACTOR SHALL BE FAMILIAR WITH, AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROCESS.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY, OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN TITLE 24, PART 1, 4-338 AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN ACCORDANCE WITH DSA IR-A-6.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE APPROVED PLANS AND/OR SPECIFICATIONS. THEY ARE TO BE TREATED AS CONSTRUCTION CHANGE DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR-A-6.
- THE CLASS 2 PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND DSA IN ACCORDANCE WITH TITLE 24, PART 1, 4-341.
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHERIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATED SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERIN THE FINISHED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

Deferred Approval:

- PC SHADE STRUCTURE

Statement of General Conformance

THE FOLLOWING DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET 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, AND
- 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)).

SIGNATURE: DATE: 3/3/22

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE: Jeffrey Grau

PRINT NAME: Jeffrey Grau

LICENSE NUMBER: C-14648 EXPIRATION DATE: 05/31/23

LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:

CIVIL, ELECTRICAL

Revision

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT

APP: 02-119976 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 04/01/2022

A studio of
 HMC Architects

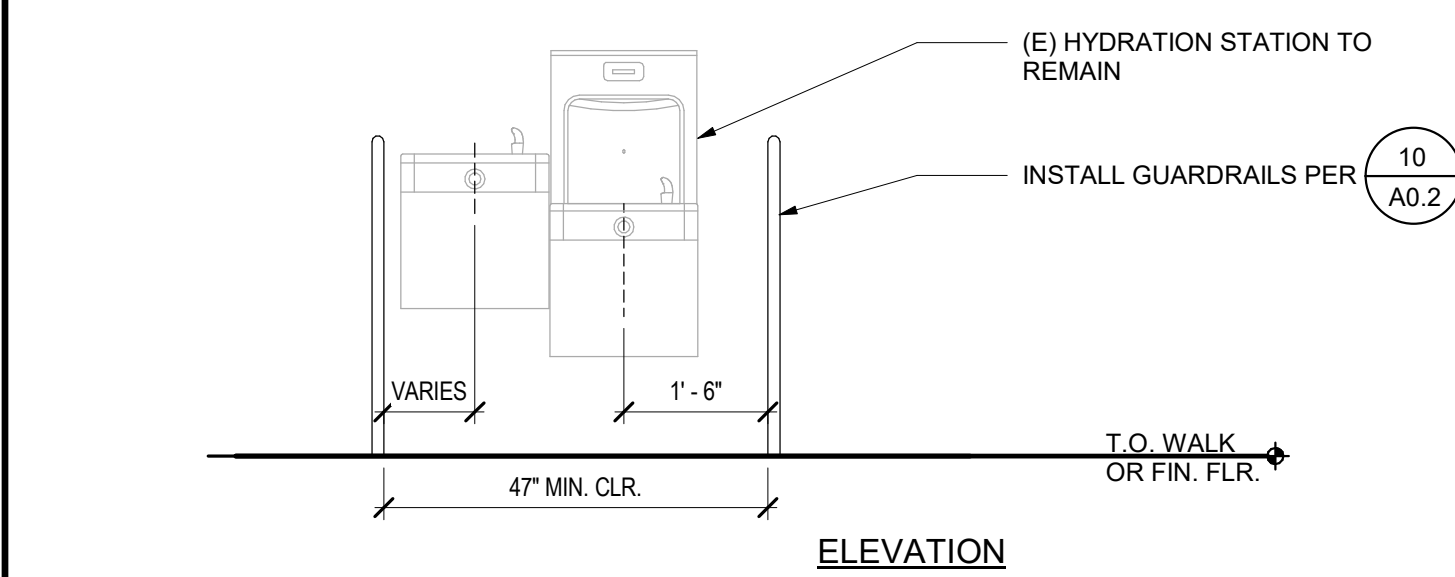
SHADE STRUCTURE AT NEW JOSEPH BONNHHEIM ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

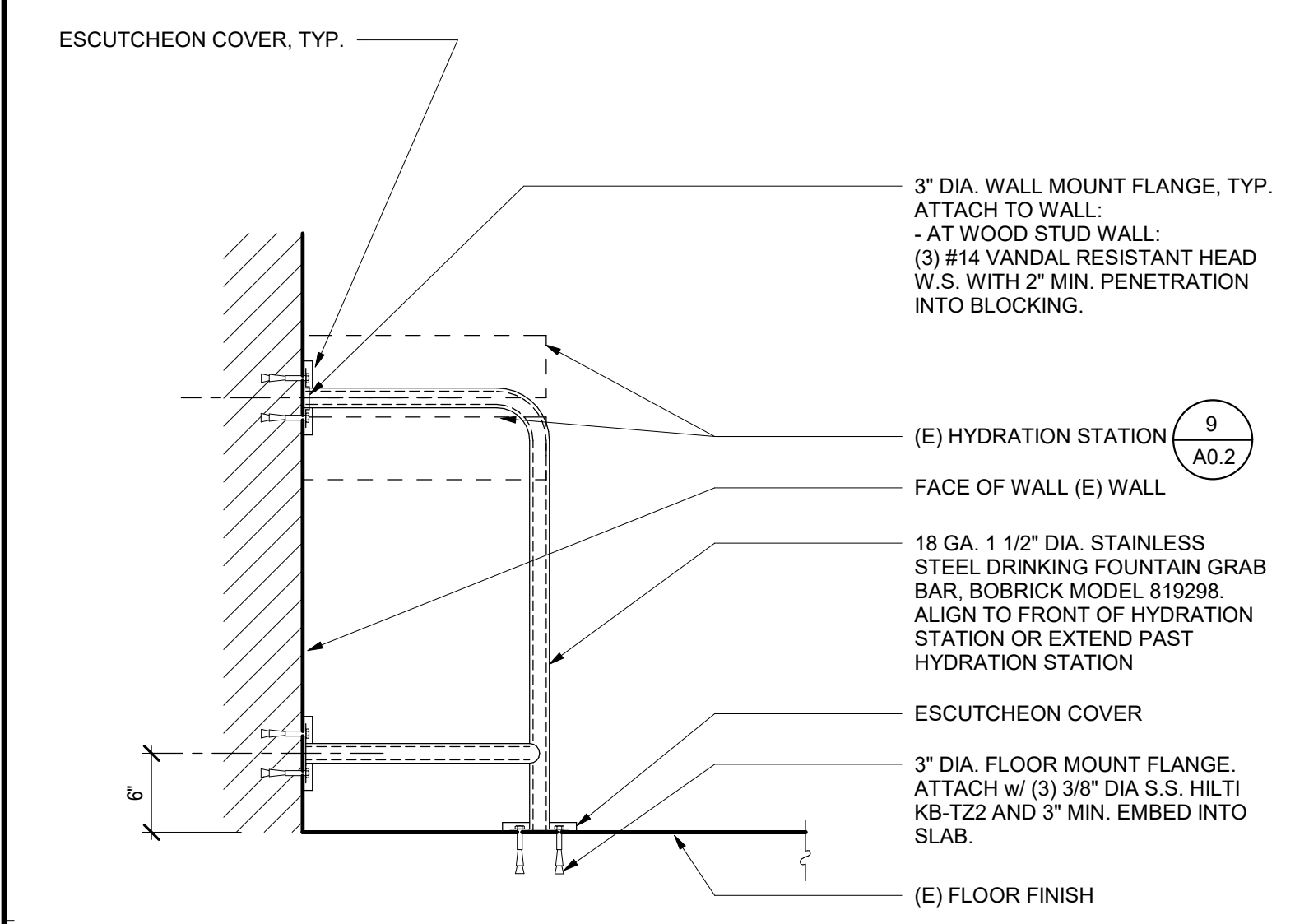
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COVER SHEET

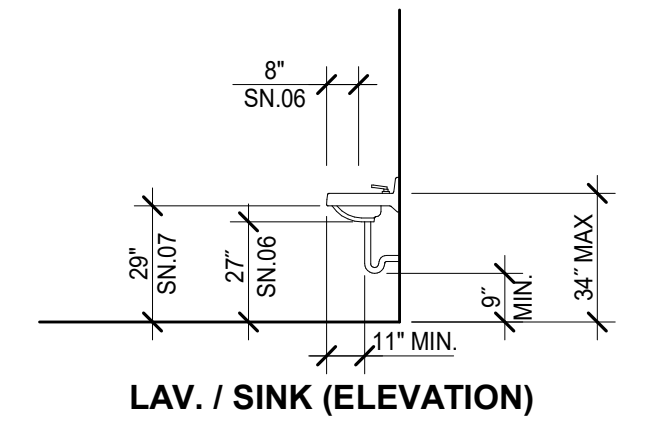
PROJECT NO. 21-1504.04
 DATE: 3/3/22
 SHEET **A0.1**



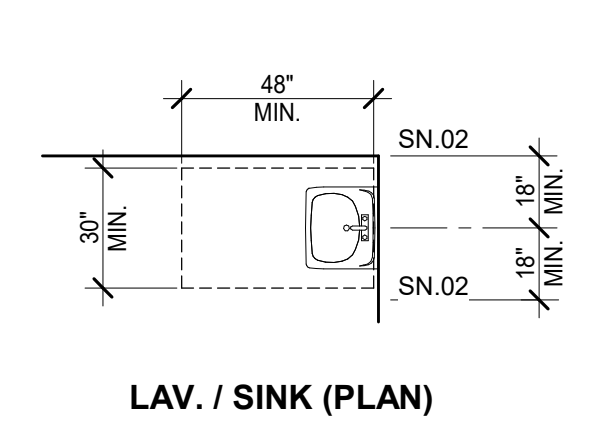
9 (E) HYDRATION STATION
1/2" = 1'-0"



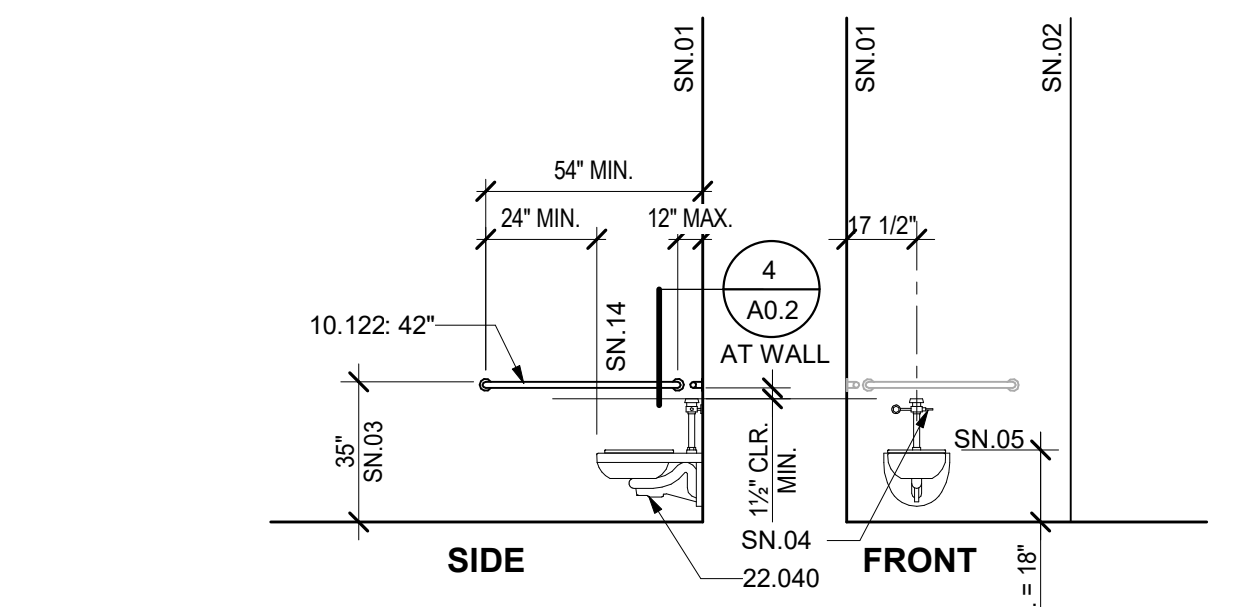
10 HYDRATION STATION GUARDRAIL
1" = 1'-0"



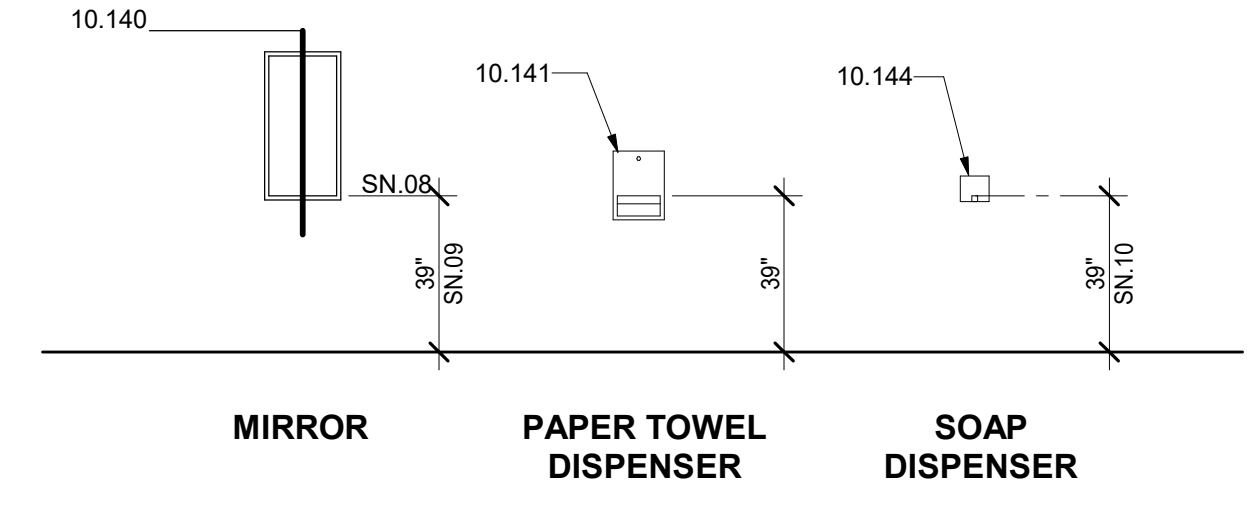
LAV. / SINK (ELEVATION)



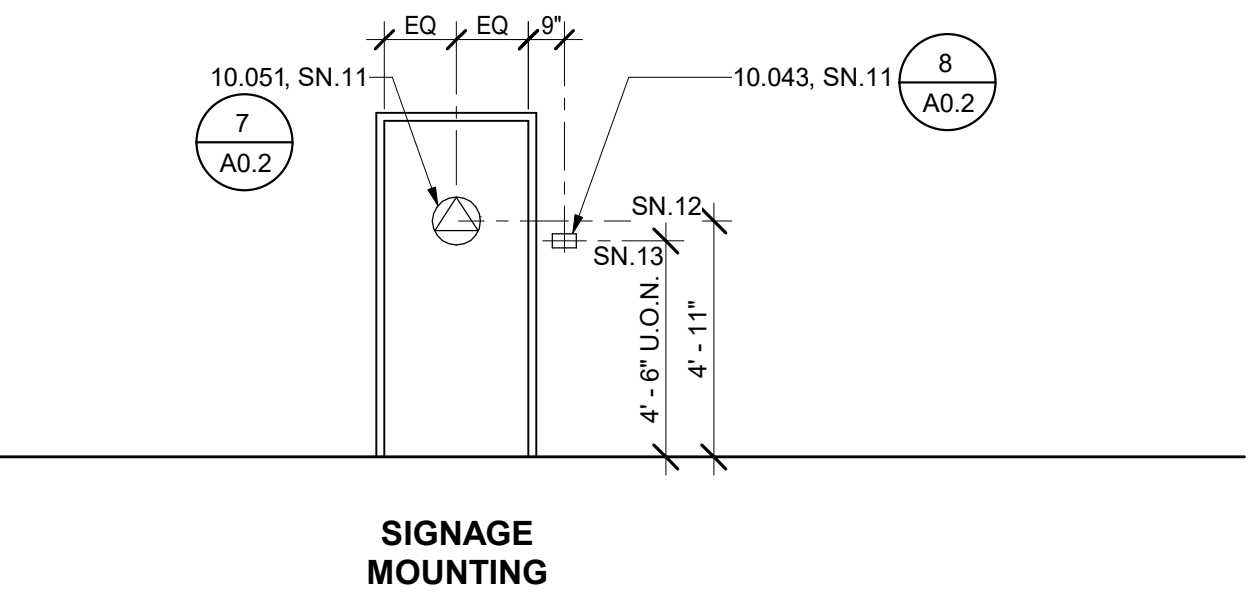
LAV. / SINK (PLAN)



WALL MOUNTED WATER CLOSET



MIRROR PAPER TOWEL DISPENSER SOAP DISPENSER



SIGNAGE MOUNTING

GENERAL NOTES

- TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
- ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
- HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

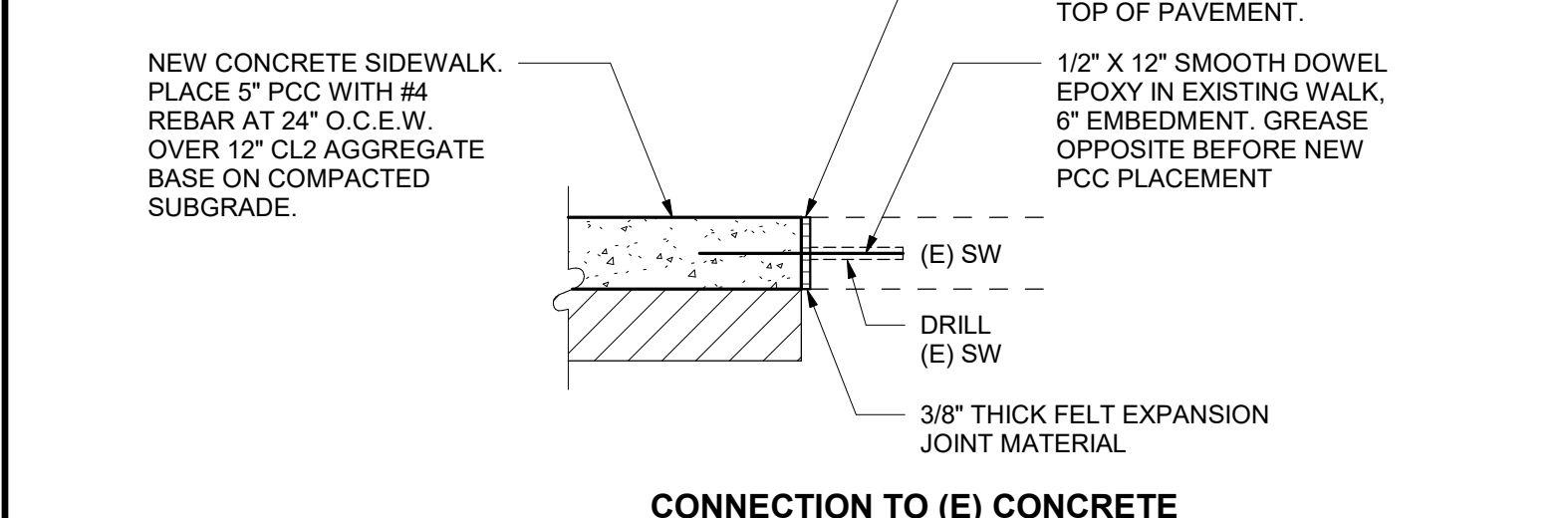
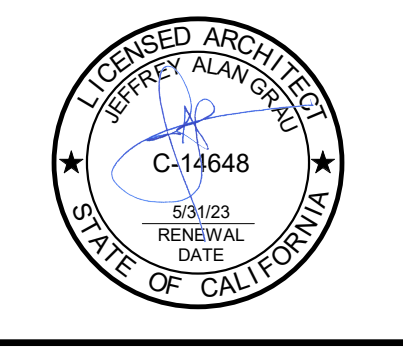
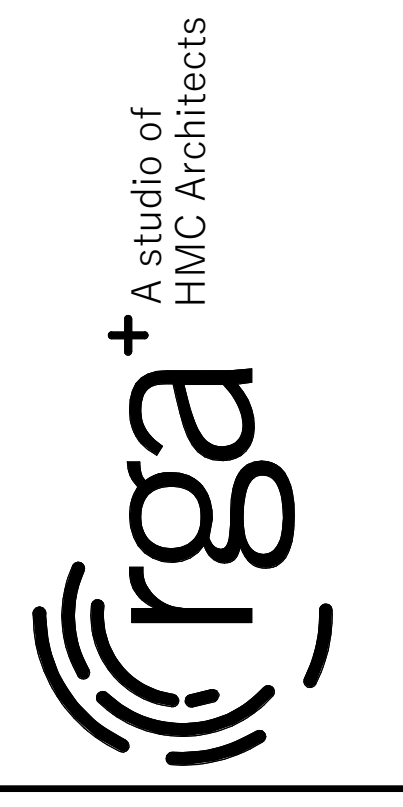
SHEET NOTES

SN.01 TO FACE OF FINISH
SN.02 FACE OF OBJECTS OR WALLS
SN.03 TOP OF GRAB BAR
SN.04 AT ACCESSIBLE WATER CLOSETS, FLUSH CONTROL HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET ENCLOSURE
SN.05 TOP OF SEAT
SN.06 MINIMUM KNEE CLEARANCE
SN.07 MINIMUM APRON CLEARANCE
SN.08 BOTTOM EDGE OF REFLECTIVE SURFACE
SN.09 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV. OR COUNTER, TOP OF MIRROR TO CENTERLINE CONTROL.
SN.10 PROVIDE AT ALL TOILET ROOM DOORS
SN.12 CENTERLINE OF SYMBOL
SN.13 CENTERLINE OF SIGN
SN.14 FRONT EDGE OF WATER CLOSET.

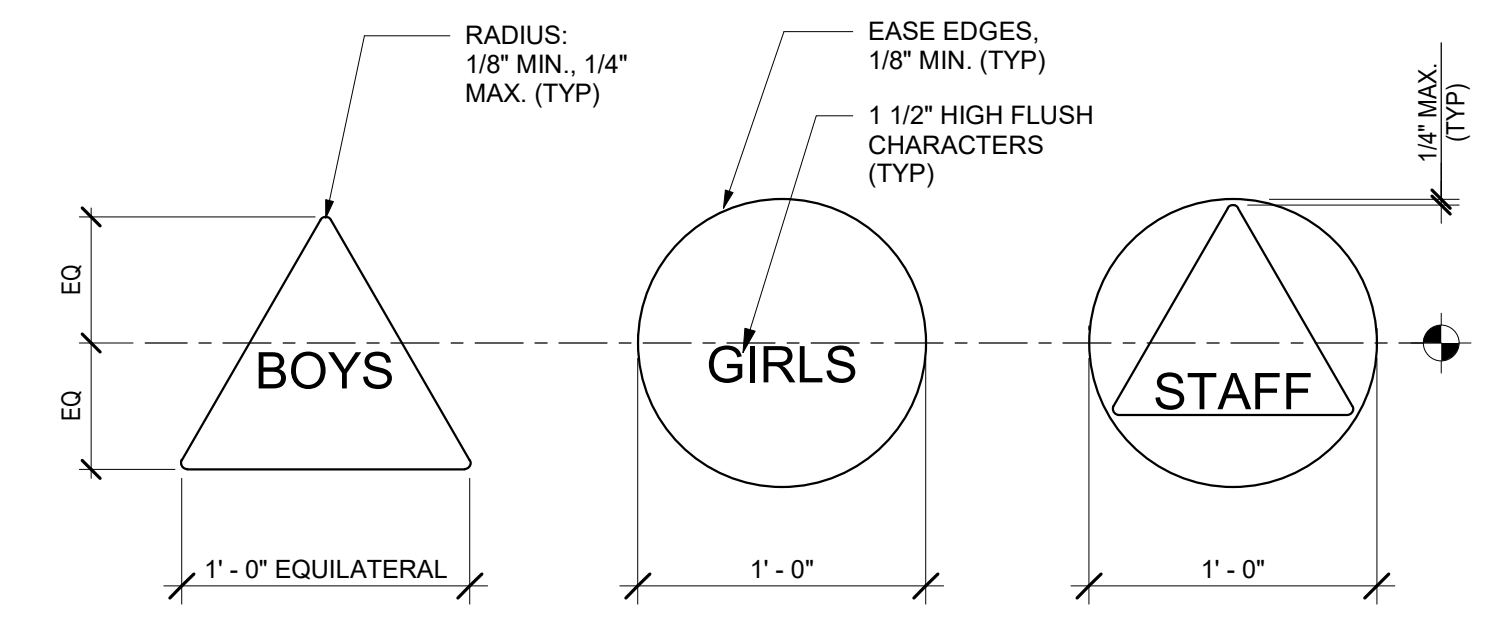
KEYNOTES

10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
10.122 TOILET ACCESSORY: GRAB BAR
10.140 TOILET ACCESSORY: MIRROR
10.141 TOILET ACCESSORY: PAPER TOWEL DISPENSER
10.144 TOILET ACCESSORY: SOAP DISPENSER
22.040 WATER CLOSET

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119976 INC.
REVIEWED FOR
SS FLS ACS
DATE: 04/01/2022

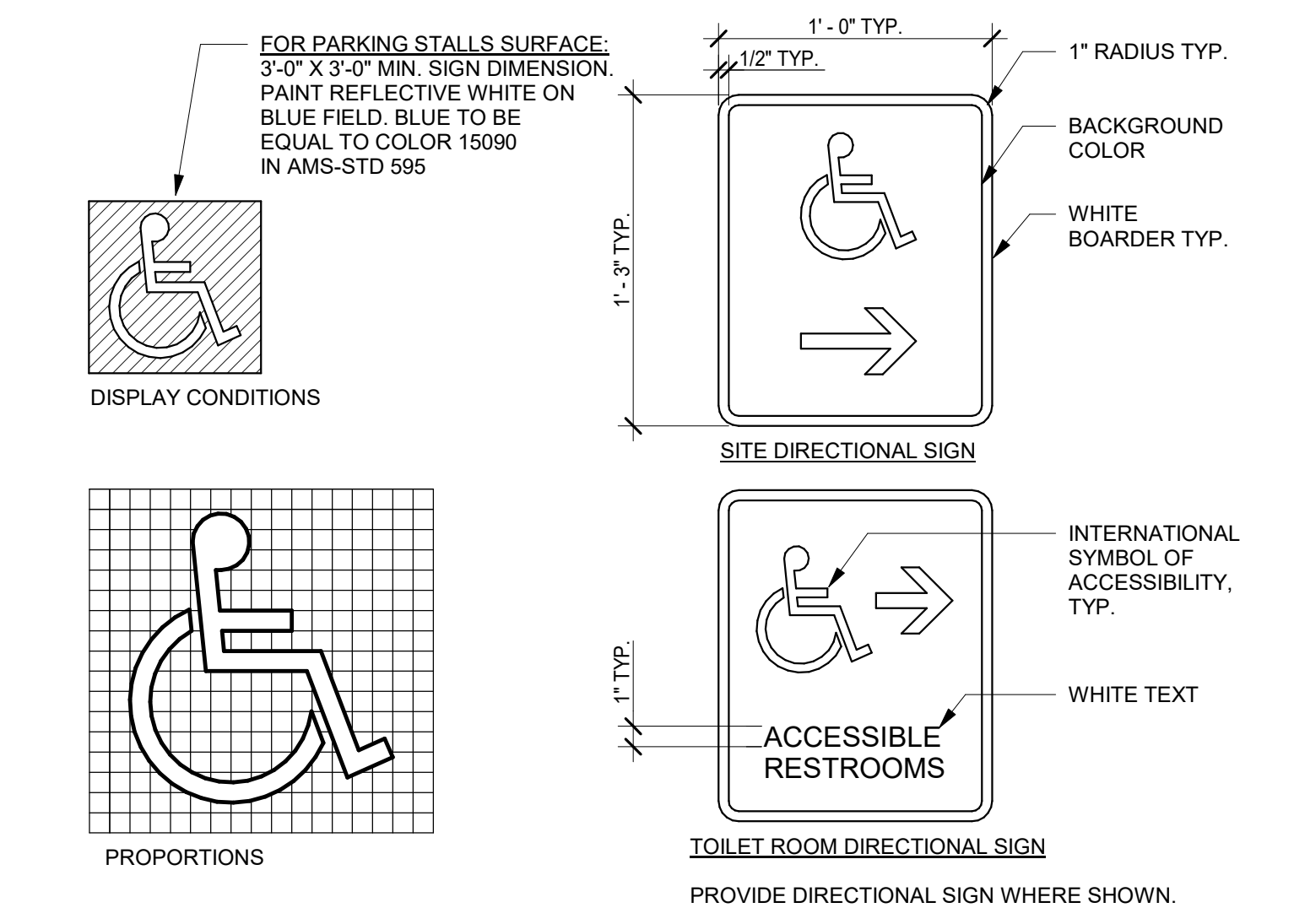


11 CONNECTION TO (E) CONCRETE
1 1/2" = 1'-0"

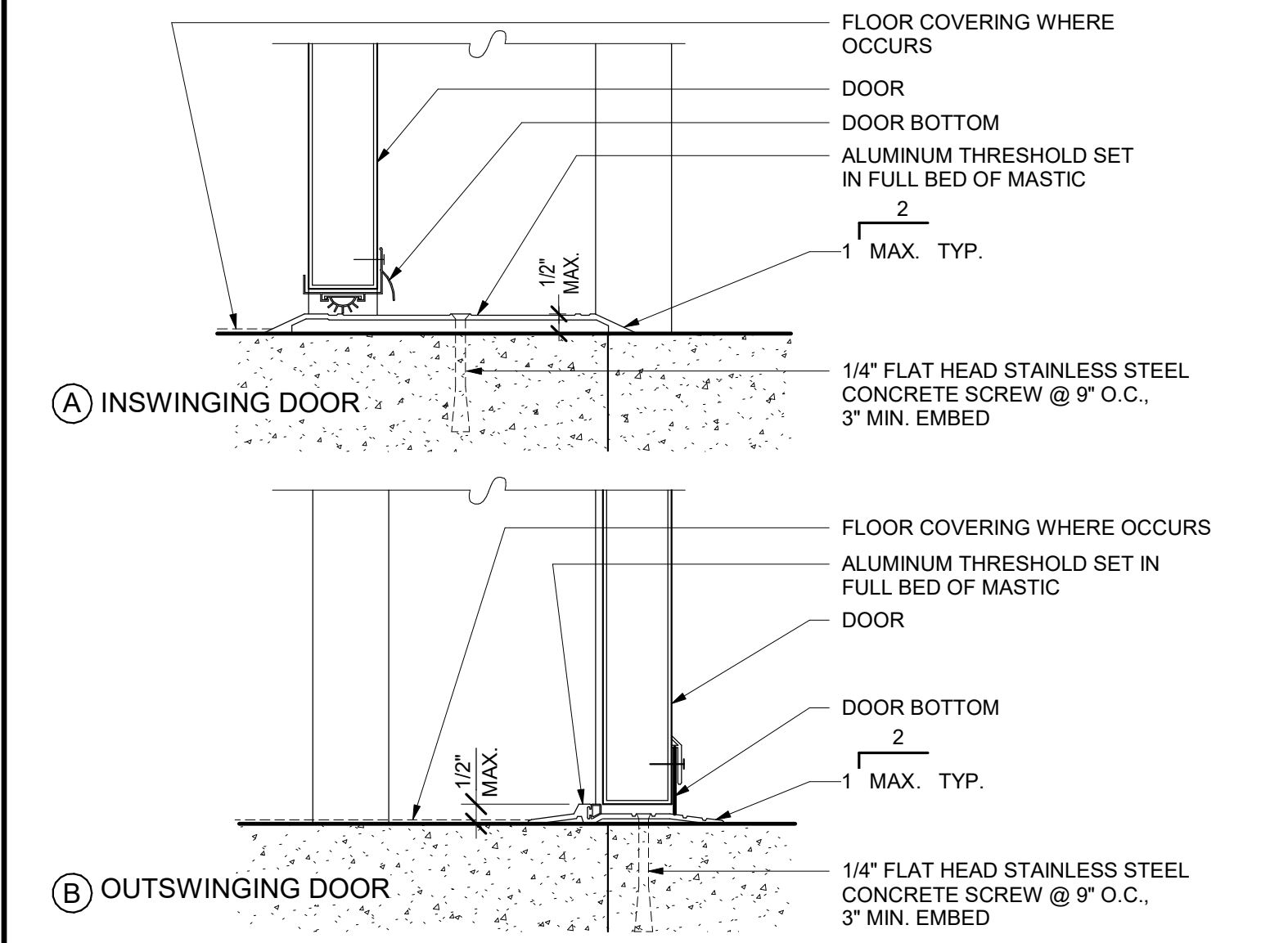


NOTE:
1. TEXT ON DOOR SYMBOL TO BE AS INDICATED ON DRAWINGS

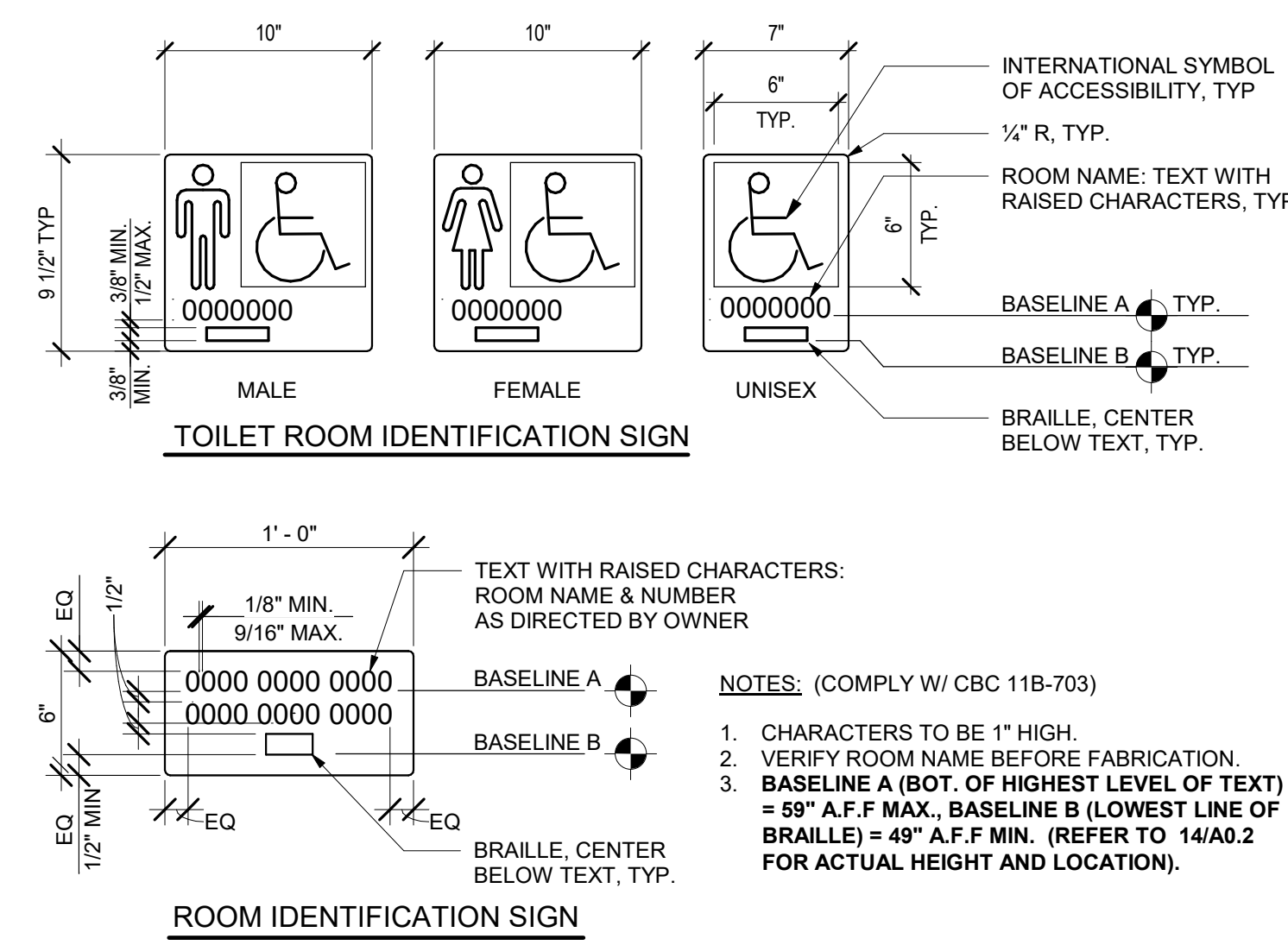
7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"



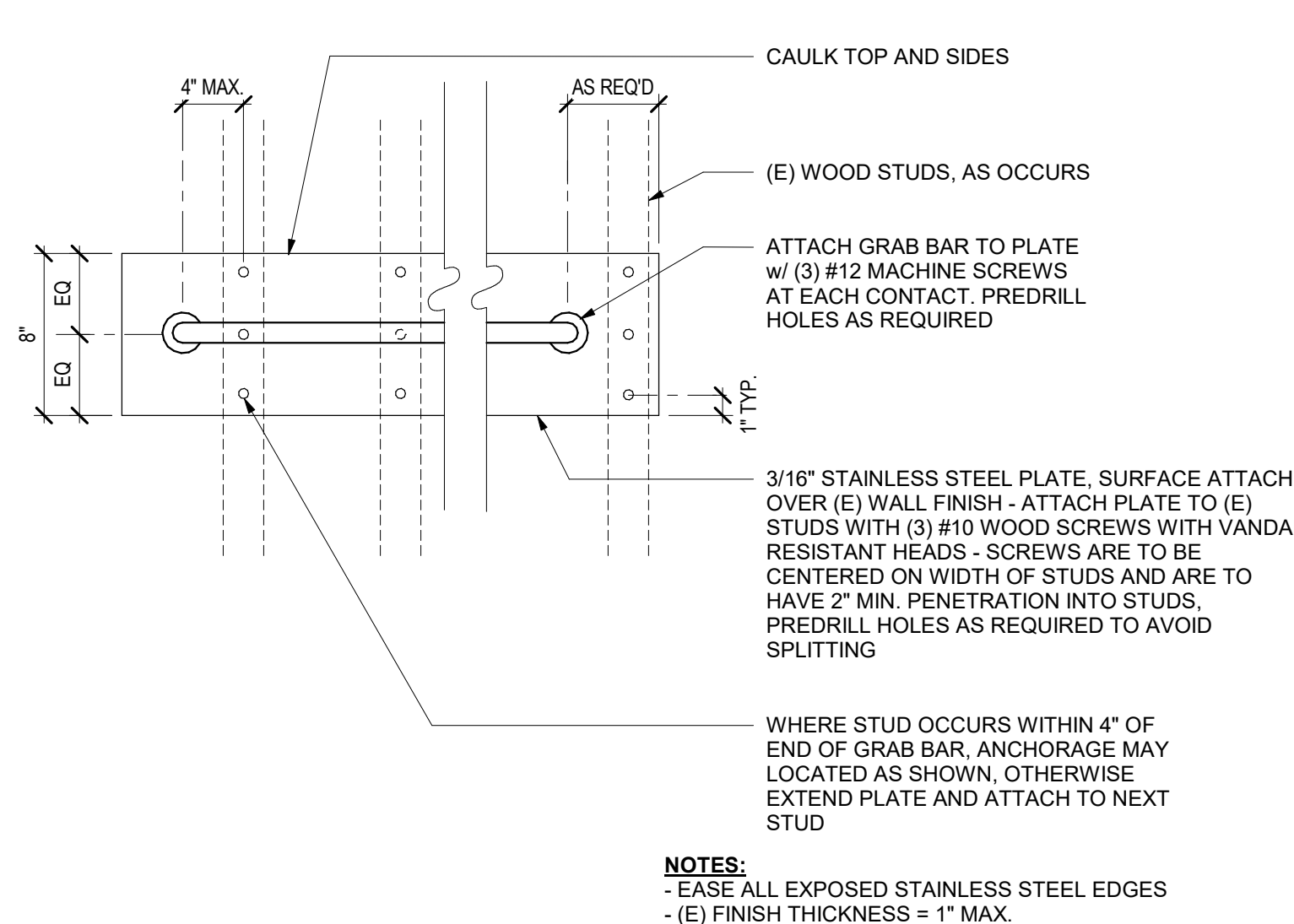
3 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



12 EXTERIOR DOOR THRESHOLD
3" = 1'-0"



8 IDENTIFICATION SIGNS
1 1/2" = 1'-0"



4 GRAB BAR - STAINLESS STEEL PLATE
1 1/2" = 1'-0"

SHADE STRUCTURE AT NEW JOSEPH BONNHEIM ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

TYPICAL MOUNTING HEIGHTS AND DETAILS

PROJECT NO. 21-1504.04
DATE: 3/3/22
SHEET **A0.2**

C:\Users\jrg\Documents\2021\04_Shade_Structure\Drawings\02-A0.2_Sheet_01.dwg

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: NEW JOSEPH BONNHEIM ES SHADE STRUCTURE
 Project address: 7300 MARIN AVE, SACRAMENTO, CA 95820

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

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED	
	Yes	No	N/A
4. Emergency vehicle access roadways do not meet CFC requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4a. Acceptable Alternative: Emergency vehicle and personal access as proposed by the architect is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Fire Hydrants: Number and spacing does not meet CFC requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5a. Acceptable Alternative: Number of fire hydrants and spacing as proposed by the architect is acceptable for fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6a. Acceptable Alternative: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7a. Acceptable Alternative: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Accepted by: _____ Title: _____
 Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION
 LFA Agency Name: _____
 LFA Review Official: _____
 Title: _____ Work Phone: _____
 Work Email: _____
 LFA Reviewer's Signature: _____ Date: _____

LEGEND

- PROPERTY LINE
- X UNIT DESIGNATION SHADE STRUCTURE
- EXISTING BUILDINGS
- CONCRETE WALK / PAVING
- ASPHALT CONCRETE PAVING
- (E) EMERGENCY ACCESS LANE
- (E) CHAIN LINK FENCE
- (E) FIRE HYDRANT (NTS)

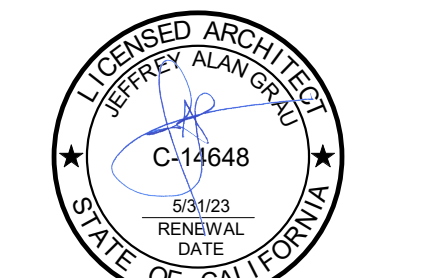
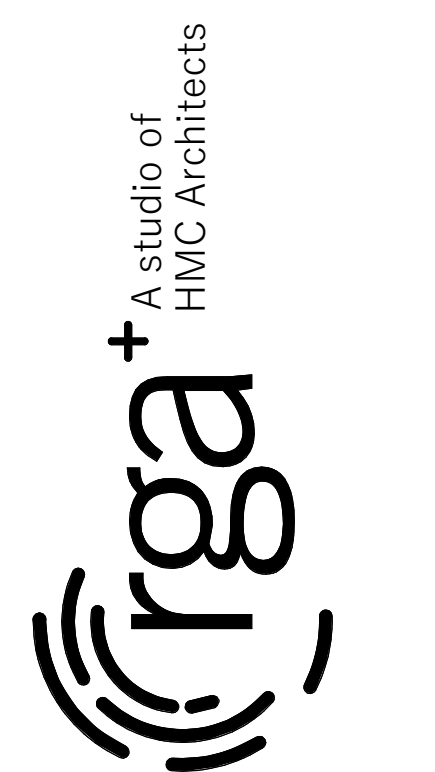
SHEET NOTES

- SN.01 (E) FIRE HYDRANT
- SN.02 (E) PR - 10' - 0" WIDE GATES WITH KNOX LOCK BOX
- SN.03 (E) EXTERIOR FIRE ALARM NOTIFICATION APPLIANCE

BUILDING DESIGNATIONS

- UNIT A - MULTIPURPOSE
- UNIT B - ADMINISTRATION
- UNITS - CLASSROOMS AND TOILET ROOMS
- UNITS - CLASSROOMS AND TOILET ROOMS
- UNIT E - CLASSROOMS
- UNIT F - CLASSROOMS
- UNIT G - CLASSROOMS
- UNIT H - CLASSROOMS
- UNIT J - CLASSROOMS
- UNIT K - CLASSROOMS
- UNITS - CLASSROOMS L1-L2
- UNIT RR - TOILET ROOMS

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-119976 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 04/01/2022



SHADE STRUCTURE AT NEW JOSEPH BONNHEIM ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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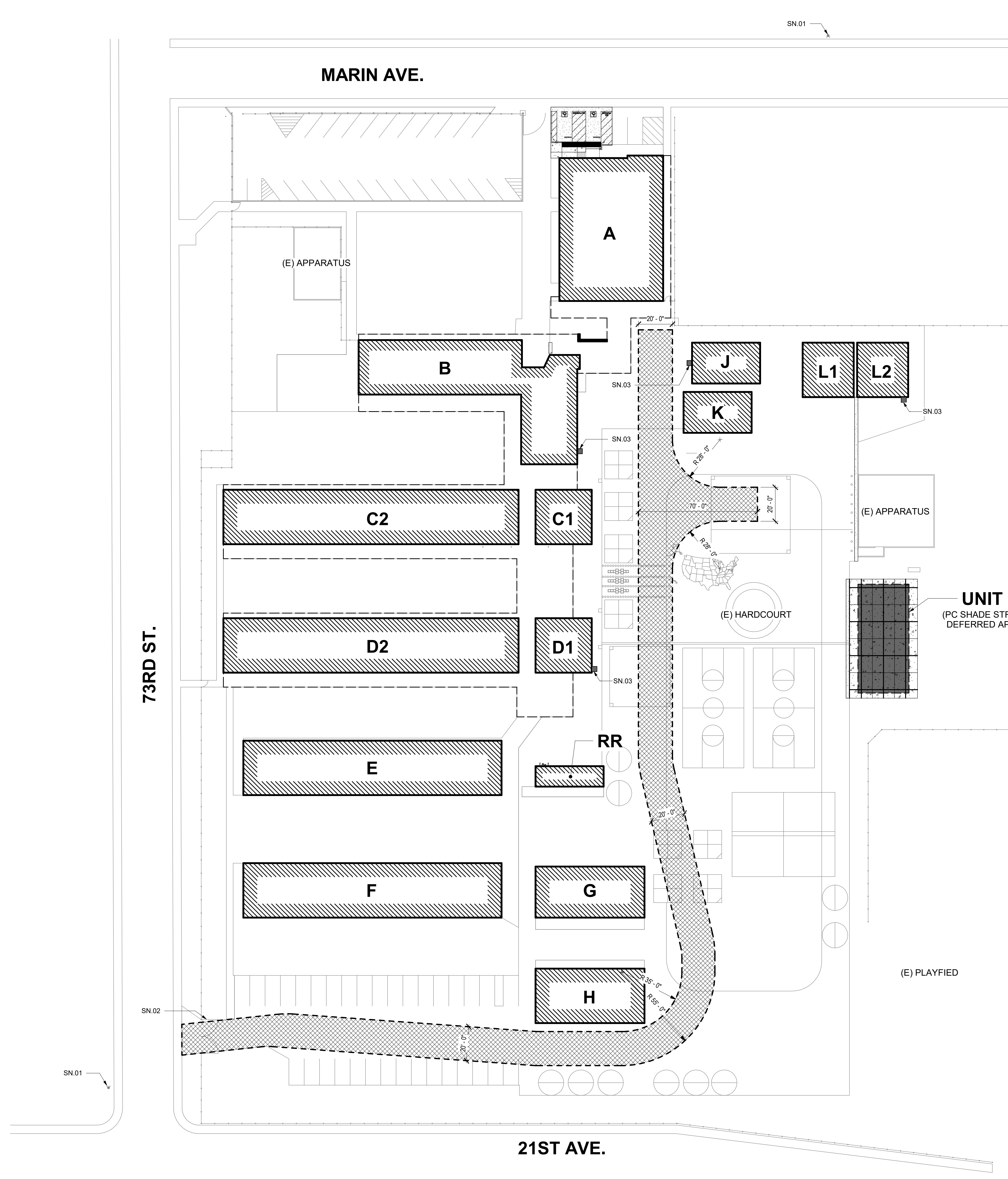
LOCAL FIRE AUTHORITY SITE PLAN

SEE OTHER SHEETS FOR CONSTRUCTION

THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO. 21-1504.04
 DATE: 3/3/22
 SHEET

A0.7



1 LOCAL FIRE AUTHORITY SITE PLAN
 1" = 30'-0"

EXISTING TOPOGRAPHY

- - - - - = PROPERTY LINE
- - - - - = CENTERLINE
- - - - - = EASEMENT
- = PROPERTY CORNER FOUND AS NOTED
- = PROPERTY CORNER NOTHING FOUND OR SET
- △/23' = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- ↔ = SWALE OR DRAINAGE FLOW
- - - - - = DRAINAGE FLOW
- - - - - = FENCE (TYPE NOTED)
- = TREE (SIZE/TYPE INDICATED)
- = SLOPE
- 100' = CONTOUR
- - - - - = CONCRETE SURFACE
- - - - - = EDGE OF ASPHALT
- - - - - = EDGE OF BUILDING
- - - - - = SIGN
- = POST OR BOLLARD
- 99.99' = GROUND ELEVATION
- 99.99' = HARD SURFACE ELEVATION

EXISTING UTILITIES

- ↔ = STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
- ↔ = STORM DRAIN LINE (RECORD INFORMATION)
- ↔ = STORM DRAIN LINE (UNDERGROUND LOCATING)
- = STORM DRAIN MANHOLE
- = STORM DRAIN CLEANOUT
- = DROP INLET
- = AREA DRAIN
- = RAIN WATER LEADER
- = DOWNSPOUT
- ↔ = SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
- ↔ = SANITARY SEWER LINE (RECORD INFORMATION)
- ↔ = SANITARY SEWER LINE (UNDERGROUND LOCATING)
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER CLEANOUT
- - - - - = WATER LINE (SIZE INDICATED)
- - - - - = WATER LINE (RECORD INFORMATION)
- - - - - = WATER LINE (UNDERGROUND LOCATING)
- = WATER MANHOLE
- = WATER VALVE
- = WATER METER
- = WATER BOX
- = IRRIGATION CONTROL VALVE
- = FIRE HYDRANT
- = BACKFLOW PREVENTER
- = SPRINKLER
- = HOSE BIBB
- - - - - = OVERHEAD ELECTRIC LINE
- - - - - = UNDERGROUND ELECTRIC LINE
- - - - - = UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- - - - - = UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- = ELECTRIC MANHOLE
- - - - - = UTILITY POLE (WITH GUY WIRE)
- = ELECTRIC METER
- = ELECTRIC BOX
- = STREET LIGHTING BOX
- = LIGHT STANDARD
- = SIGNAL LIGHT
- = FLOOD LIGHT
- = ELECTRICAL OUTLET
- - - - - = GAS LINE (SIZE INDICATED)
- - - - - = GAS LINE (RECORD INFORMATION)
- - - - - = GAS LINE (UNDERGROUND LOCATING)
- = GAS MANHOLE
- = GAS VALVE
- = GAS METER
- - - - - = TELEPHONE LINE
- - - - - = TELEPHONE LINE (RECORD INFORMATION)
- - - - - = TELEPHONE LINE (UNDERGROUND LOCATING)
- = STORM DRAIN BOX
- = TRAFFIC SIGNAL BOX

CIVIL ABBREVIATIONS AND LEGEND

ABBREVIATIONS

- NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.
- AB AGGREGATE BASE
 - AC ASPHALTIC CONCRETE
 - AD AREA DRAIN
 - APN ASSESSOR'S PARCEL NUMBER
 - ARV AIR RELEASE VALVE
 - ASB AGGREGATE SUB-BASE
 - SO BLOW-OFF VALVE
 - BT BUTTERFLY VALVE
 - BV BACK OF WALK
 - C/L CENTERLINE
 - CB CATCH BASIN
 - CL CLASS
 - CMP CORRUGATED METAL PIPE
 - CATV CATCH TELEVISION
 - CO CLEANOUT
 - COMM COMMUNICATION
 - CONC. CONCRETE
 - CONSTR. CONSTRUCTION
 - CR CURB RETURN
 - CS CONCRETE SURFACE
 - DC DOUBLE CHECK VALVE
 - DDC DOUBLE DETECTOR CHECK VALVE
 - DG DECOMPOSED GRANITE
 - DI DROP INLET
 - DIA DIAMETER
 - DIP DUCTILE IRON PIPE
 - DWG DRAWING
 - DS DOWNSPOUT
 - EP ELECTRIC
 - EDG EDGE OF PAVEMENT
 - ESMT EASEMENT
 - EX EXISTING
 - FS FIRE SERVICE LINE
 - FJC FLOWLINE
 - FL FLOWLINE
 - FM FINISHED FLOOR ELEVATION
 - FF FINISHED FLOOR ELEVATION
 - FH FIRE HYDRANT
 - GH GAS
 - GR GRATE ELEVATION
 - GRD GRADE ELEVATION
 - GV GATE VALVE
 - HB HOSE BIBB
 - HBD HEADER BOARD
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - HP HIGH POINT
 - INV PIPE INVERT ELEVATION
 - JP JOINT UTILITY POLE
 - LF LINEAL FEET
 - LIP LIP OF GUTTER
 - LT LEFT
 - MS MOWSTRIP
 - NTS NOT TO SCALE
 - OH OVERHEAD
 - PCC PORTLAND CEMENT CONCRETE
 - PD PLANTER DRAIN
 - PIV POST INDICATOR VALVE
 - P/L PROPERTY LINE
 - PP POWER POLE
 - PUE PUBLIC UTILITY EASEMENT
 - PVC POLYVINYL CHLORIDE
 - RCP REINFORCED CONCRETE PIPE
 - R RADIUS
 - RIM MANHOLE RIM ELEVATION (SOLID COVER)
 - RP REDUCED PRESSURE BACKFLOW PREVENTER
 - RW RIGHT OF WAY
 - SCH SCHEDULE
 - SD STORM DRAIN
 - SDM DM STORM DRAIN MANHOLE
 - SG SUBGRADE ELEVATION
 - SS SANITARY SEWER
 - SSMH SANITARY SEWER MANHOLE
 - STD STANDARD
 - S/W SIDEWALK
 - T TELEPHONE
 - TC TOP OF CURB
 - TD TRENCH DRAIN
 - TDCB TRENCH DRAIN CATCH BASIN
 - TP TELEPHONE POLE
 - TR TOP OF RAMP ELEVATION
 - TRW TOP OF RETAINING WALL
 - TW TOP OF SEAT WALL
 - TW TOP OF WALK ELEVATION
 - U UTILITY
 - UG UNDERGROUND
 - UON UNLESS OTHERWISE NOTED
 - VCP VITRIFIED CLAY PIPE
 - W WATER
 - W/ WITH
 - W/O WITHOUT
 - WV WATER VALVE

LEGEND

- NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.
- PROPOSED GRADING & DRAINAGE SYMBOLS:**
- ↔ 8" SD STORM DRAIN LINE (SIZE AND FLOW SHOWN)
 - STORM DRAIN MANHOLE (SDMH)
 - CATCH BASIN (CB)
 - DROP INLET (DI)
 - AREA DRAIN (AD)
 - PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
 - STORM DRAIN CLEANOUT
 - 99.99' ELEVATION
 - FF=100.00 FINISHED FLOOR ELEVATION
 - PAD=99.33 BUILDING PAD ELEVATION
 - CONCRETE SIDEWALK
 - GRADED DIRECTION FOR DRAINAGE FLOW
 - ↔ SWALE
 - ↔ SLOPE
 - ⊗ TREE TO BE REMOVED
 - - - - - RETAINING WALL

- PROPOSED SANITARY SEWER SYMBOLS:**
- ↔ 6" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
 - SANITARY SEWER MANHOLE (SSMH)
 - SEWER CLEANOUT FLUSHER BRANCH

- PROPOSED WATER SYMBOLS:**
- ↔ 8" W WATER LINE & SIZE
 - ↔ 8" FS FIRE LINE & SIZE
 - ↔ 8" DW DOMESTIC WATER LINE & SIZE
 - ↔ 8" RW RECLAIMED WATER LINE & SIZE
 - ↔ 8" IRR IRRIGATION SERVICE LINE & SIZE
 - ↔ 8" NP NON POTABLE WATER LINE & SIZE
 - ↔ 8" SP FIRE SPRINKLER SERVICE LINE & SIZE
 - GATE VALVE
 - WATER METER
 - FH FIRE HYDRANT ASSEMBLY
 - Y FDC FIRE DEPARTMENT CONNECTION
 - DC DETECTOR CHECK VALVE
 - DDC DOUBLE DETECTOR CHECK VALVE
 - RP REDUCED PRESSURE BACKFLOW PREVENTER
 - BUTTERFLY VALVE
 - 1" AIR RELEASE VALVE + SIZE
 - 1" BLOW-OFF VALVE + SIZE
 - PIV POST INDICATOR VALVE

DEMOLITION GENERAL NOTES:

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
10. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.


UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

IRRIGATION DEMOLITION NOTE

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

GENERAL NOTES:

1. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811. 
2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN PATCH BACK. EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TTEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, SHALL REBAR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
19. ANY SCORED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.
21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

GENERAL PAVING SURFACE NOTES:

1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
 - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
 - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

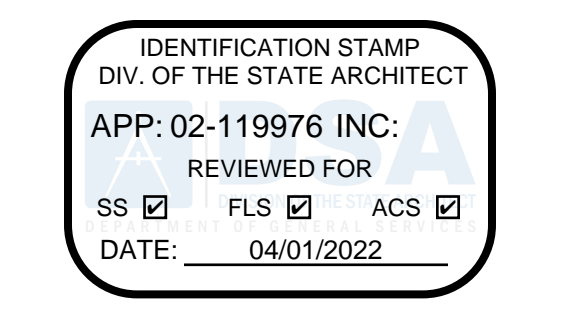
CIVIL SHEET INDEX

- C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
- C1.1 DEMOLITION PLAN
- C2.1 GRADING AND PAVING PLAN

A.P.N.	021-0342-028	
BENCHMARK NO.	318-C3E	ELEV. 35.095
HILTI NAIL LIGHT BASE SE CORNER 21ST AVENUE AND QUONSET DRIVE.		

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV.
1	CPS CHISELED "+"	10000.00	10000.00	38.99
2	CPS PK+WASHER@4 SQ.	9537.59	10000.00	36.20
3	CPS PK+WASHER	9791.13	9999.31	37.92
4	CPS CHISELED "+"	9873.48	9999.56	39.06
5	CPS CHISELED "+"	10000.37	9895.17	37.93
6	CPS CHISELED "+"	9993.27	9725.14	35.57
7	CPF BM318-C3E EL=35.095	9206.53	10359.58	35.10



rga+
A studio of HMC Architects

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
No. C14896
STATE OF CALIFORNIA

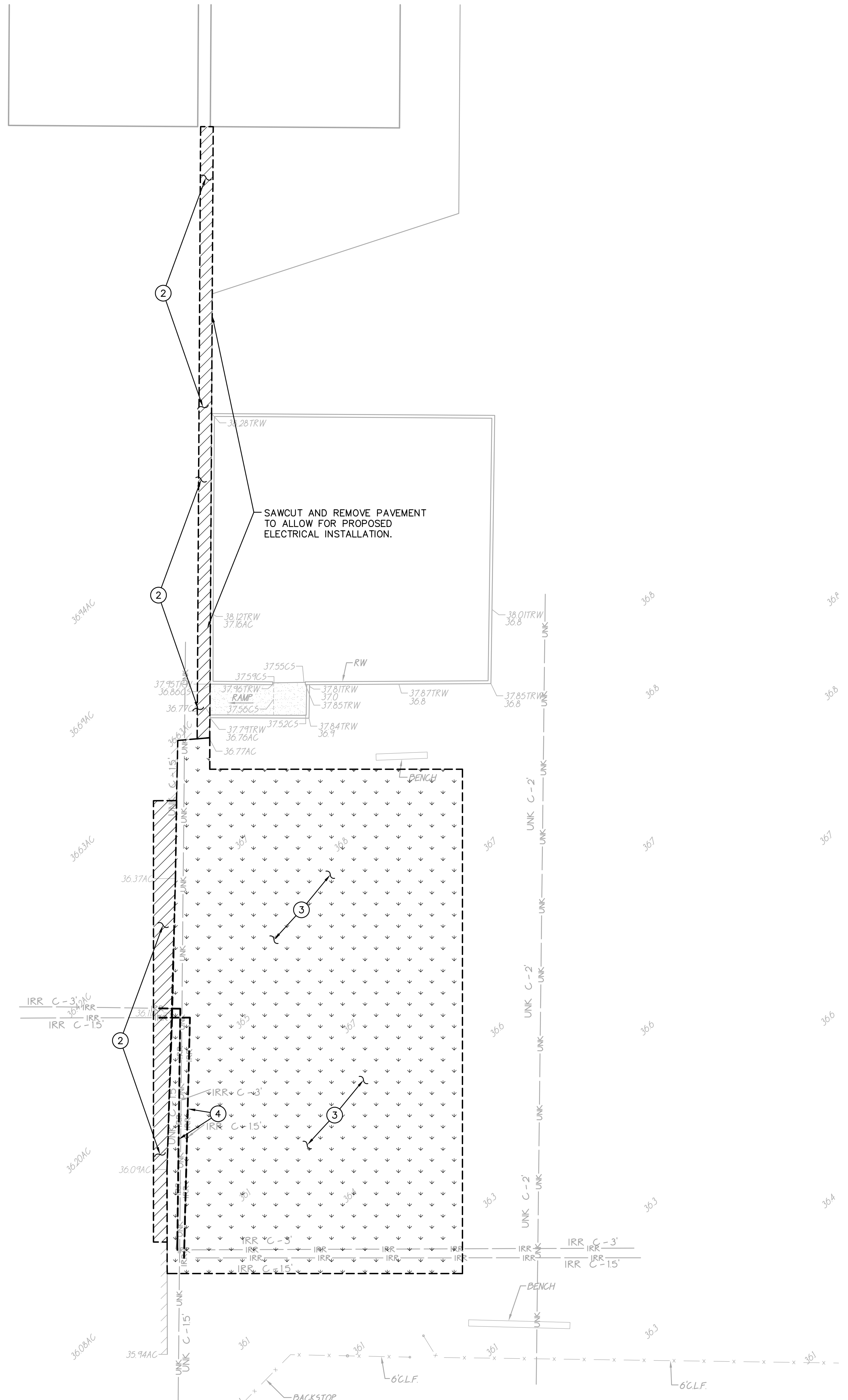
WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

SHADE STRUCTURE AT NEW JOSEPH BONNHIEIM ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

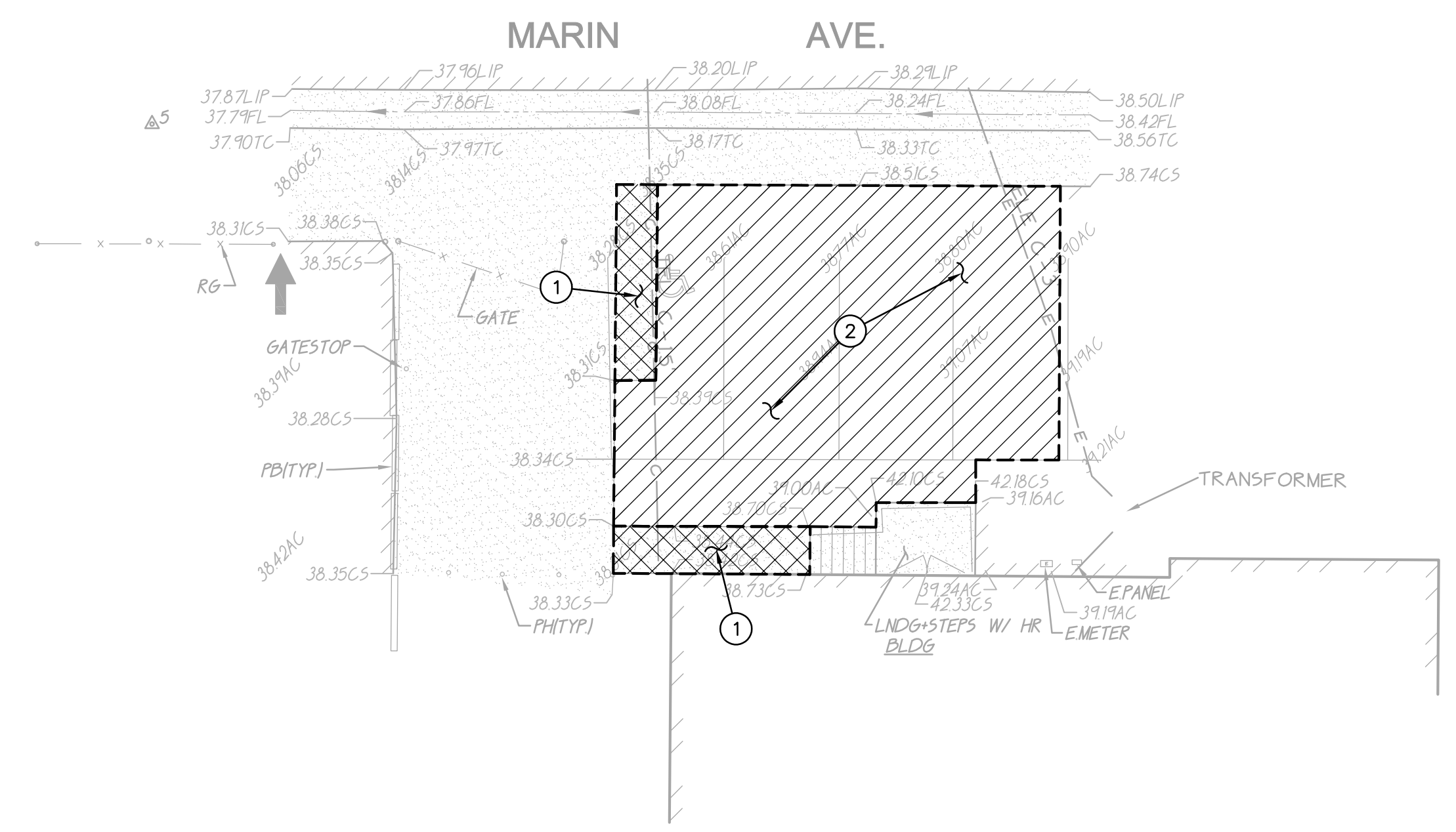
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CIVIL GENERAL NOTES AND ABBREVIATIONS



DEMOLITION PLAN - SHADE STRUCTURE

SCALE: 1"=10'



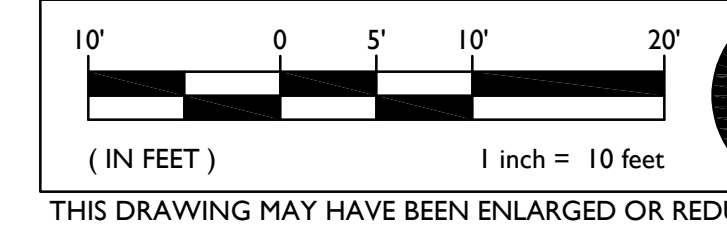
DEMOLITION PLAN - ACCESSIBLE PARKING

SCALE: 1"=10'

DEMOLITION NOTES

1. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
2. SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
3. REMOVE AND DISPOSE OF EXISTING LANDSCAPING, TURF AND ASSOCIATED IRRIGATION PIPING/SPRINKLERS WITHIN AREAS OF WORK. CUT AND CAP ANY MAINLINES NEAR WHERE THEY ENTER THE BOUNDARY OF THE PROJECT. MARK ALL CAPPED LINES WITH AN IRRIGATION VALVE BOX. ALL EXISTING IRRIGATION AREAS OUTSIDE THE PROJECT WORK AREA SHALL BE PRESERVED AND OPERATIONAL. INTEGRITY SHALL BE MAINTAINED WITH PROPER SPRINKLER COVERAGE TO TURF AREAS TO REMAIN.
4. REMOVE AND DISPOSE OF EXISTING IRRIGATION PIPE TO EXTENT SHOWN.

GRAPHIC SCALE

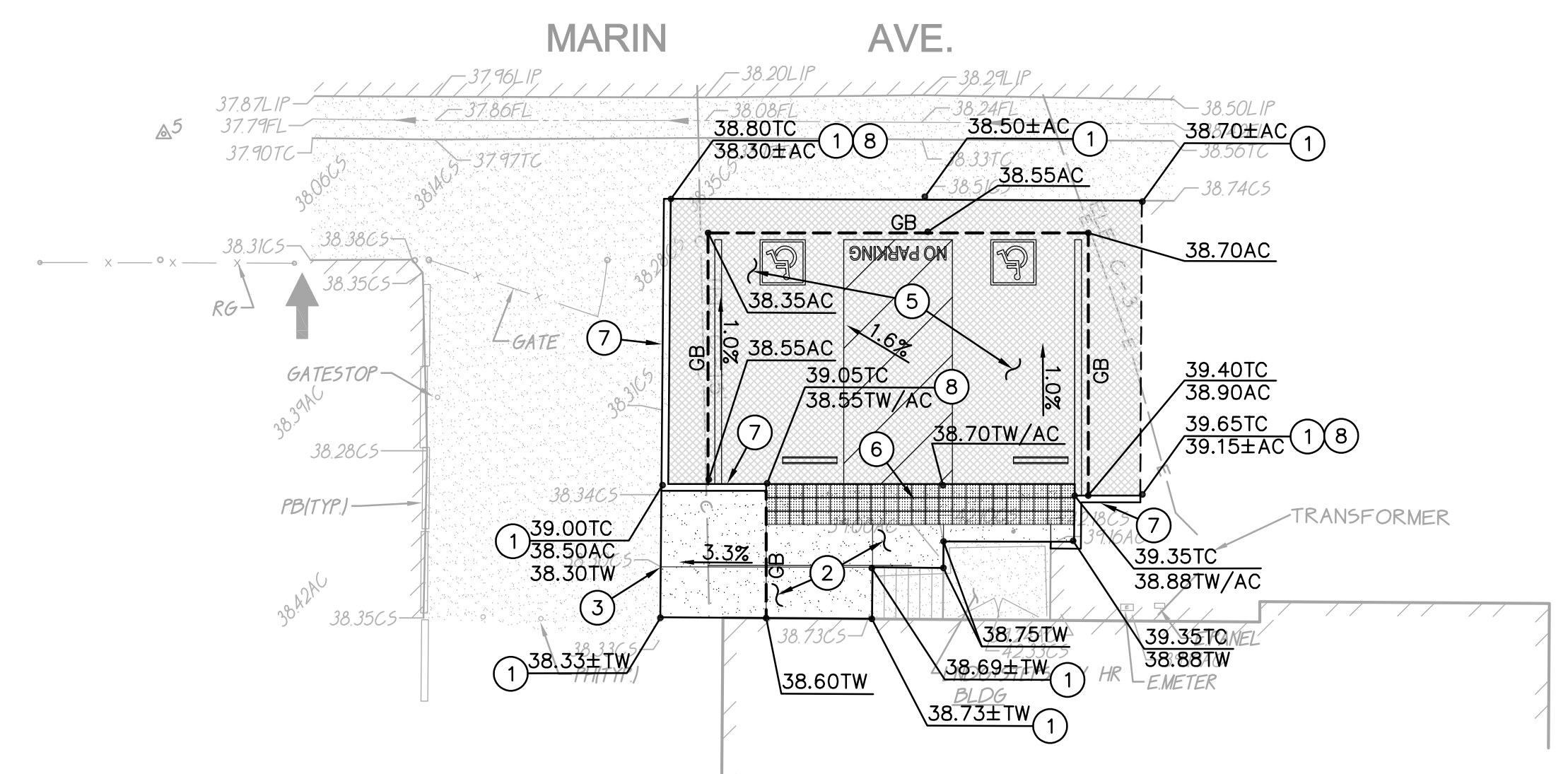


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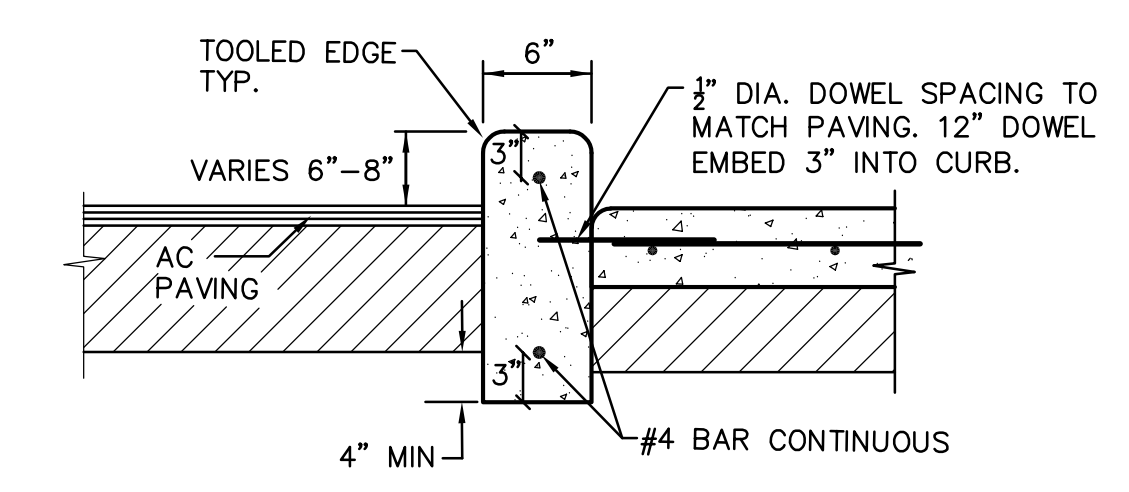
DEMOLITION PLAN

PROJECT NO. 21-1504.04
 DATE: 3/3/22
 SHEET C1.1



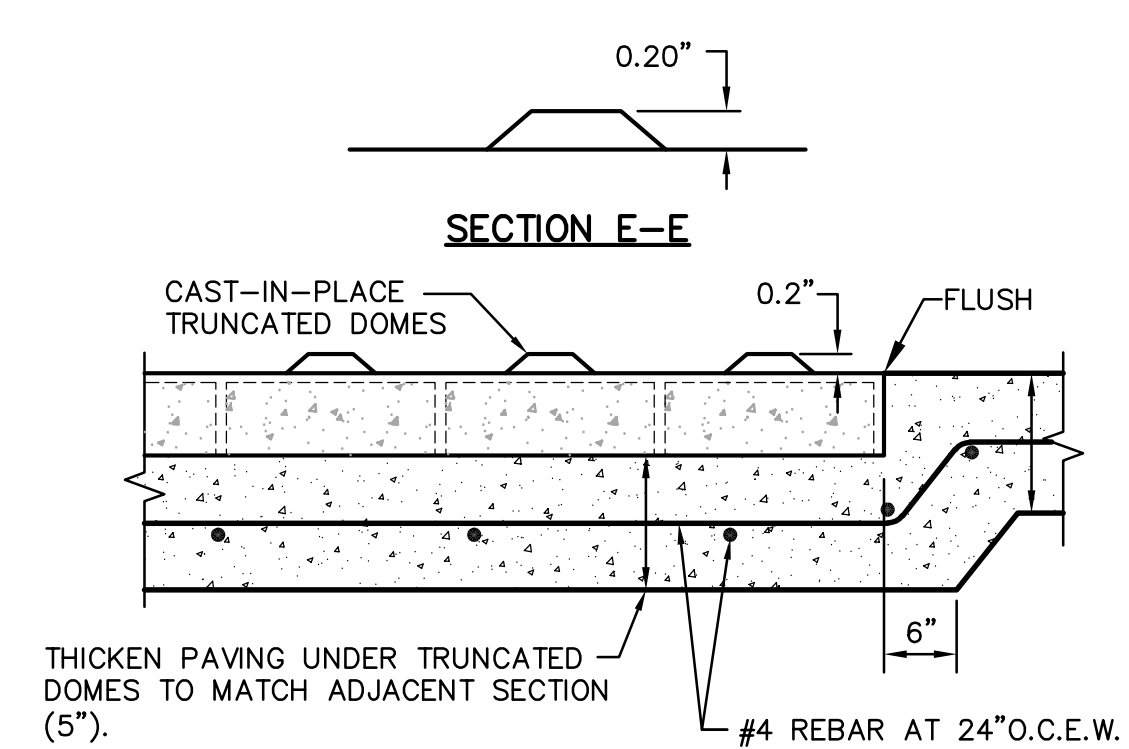
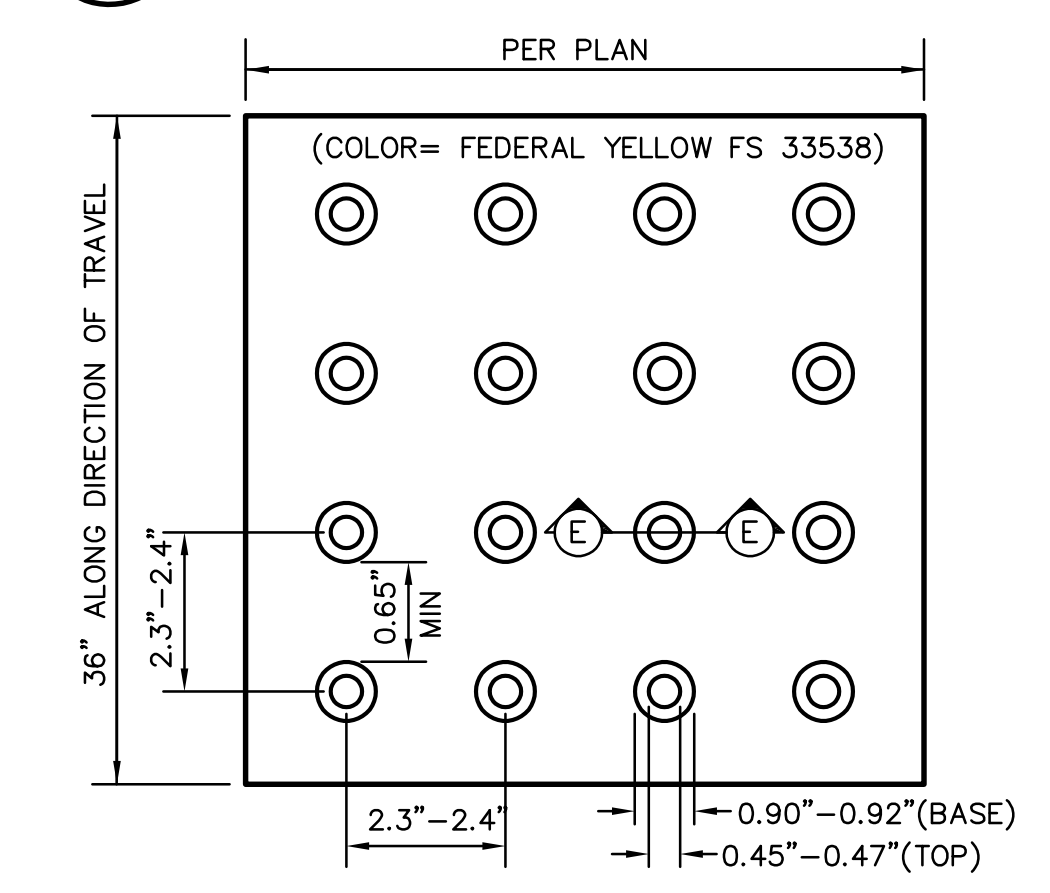
GRADING AND PAVING PLAN - ACCESSIBLE PARKING

SCALE: 1"=10'

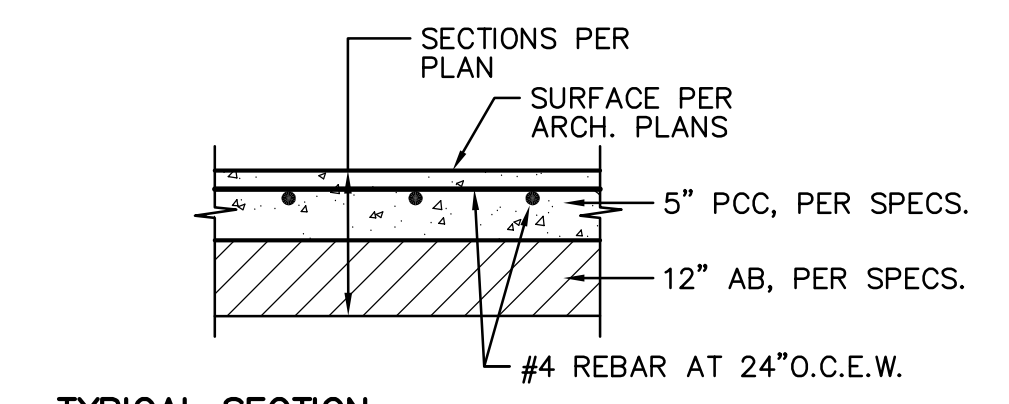


- NOTES:
- PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
 - AT E.J. USE 1/2"x24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

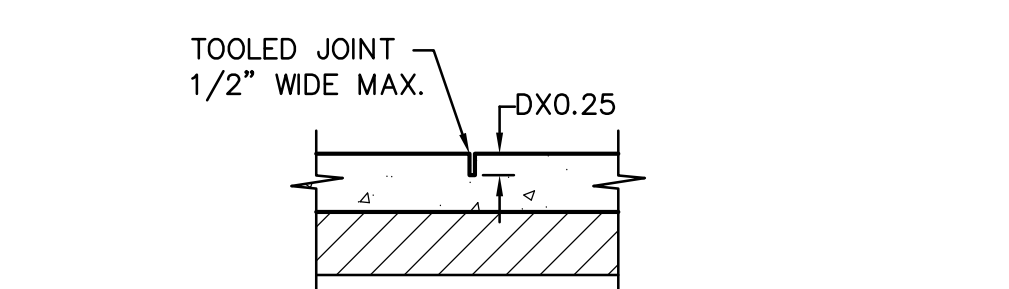
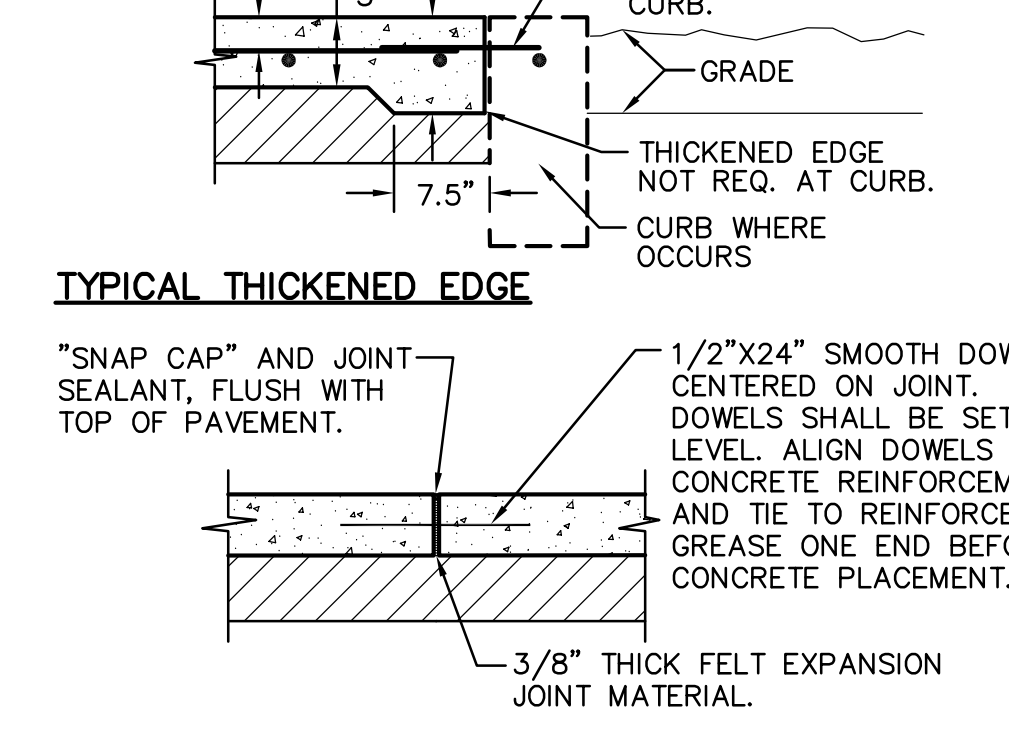
C2.1 CONCRETE CURB NO SCALE



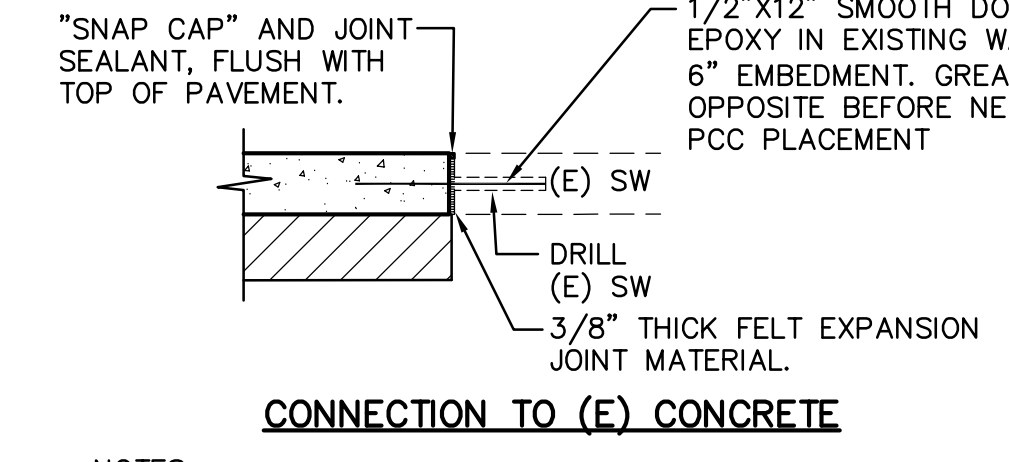
C2.1 TRUNCATED DOMES NO SCALE



TYPICAL SECTION



TYPICAL JOINTS



- NOTES:
- PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MIN.
 - PROVIDE CONTROL JOINTS AT 10 FEET O.C. MIN.
 - EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

C2.1 CONCRETE SIDEWALK NO SCALE

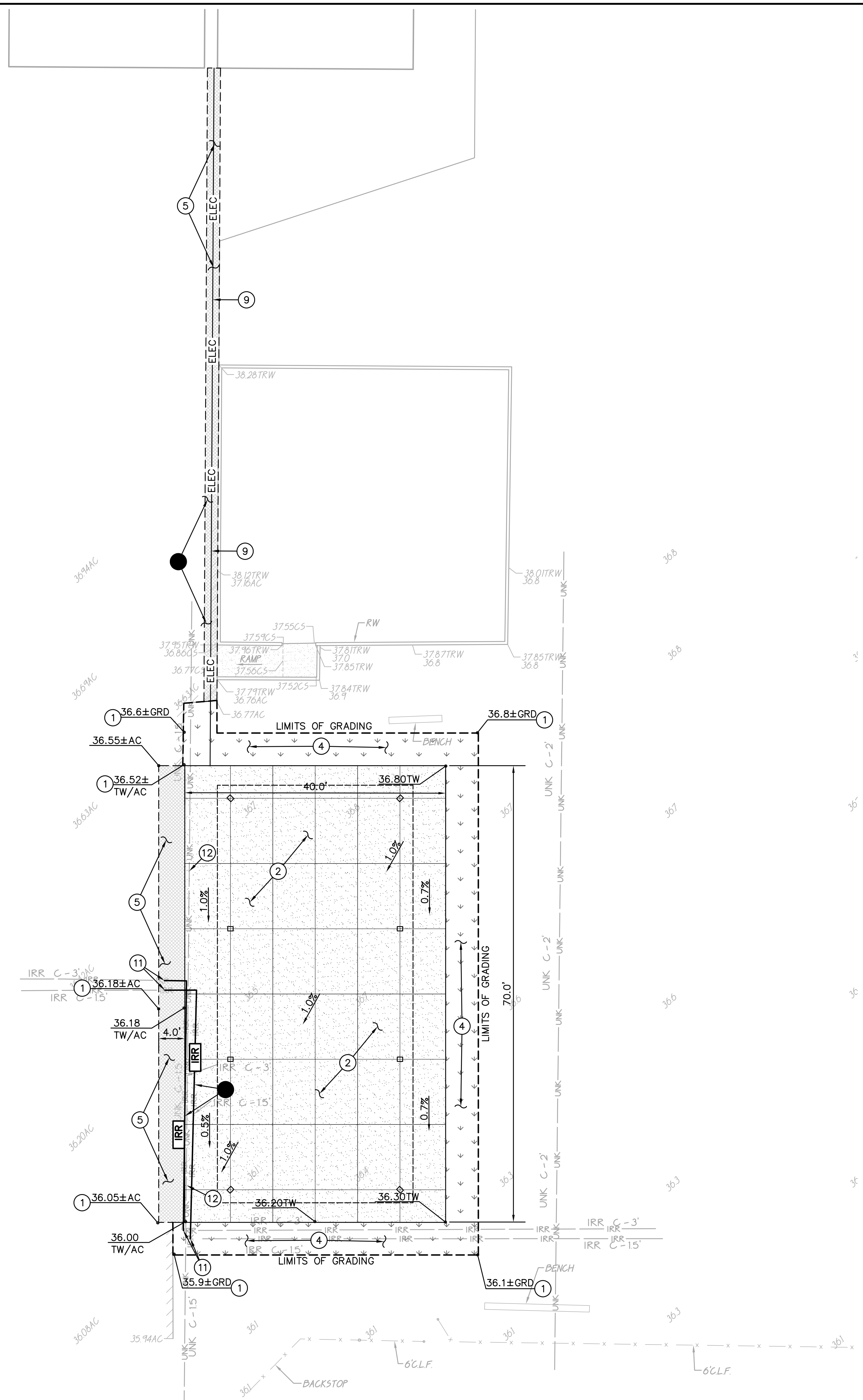
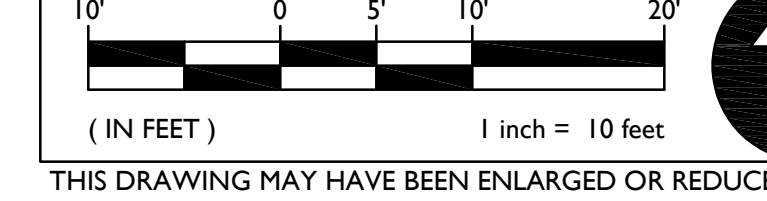
SUBGRADE PREPARATION

1. FOLLOWING SITE DEMOLITION ACTIVITIES:
 EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES, MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY THE ASTM D1557 TEST METHOD. UPPER 12 INCHES OF SUBGRADE SUPPORTING ASPHALT PAVEMENT SHALL BE COMPACTED TO 95 PERCENT.

GRADING NOTES

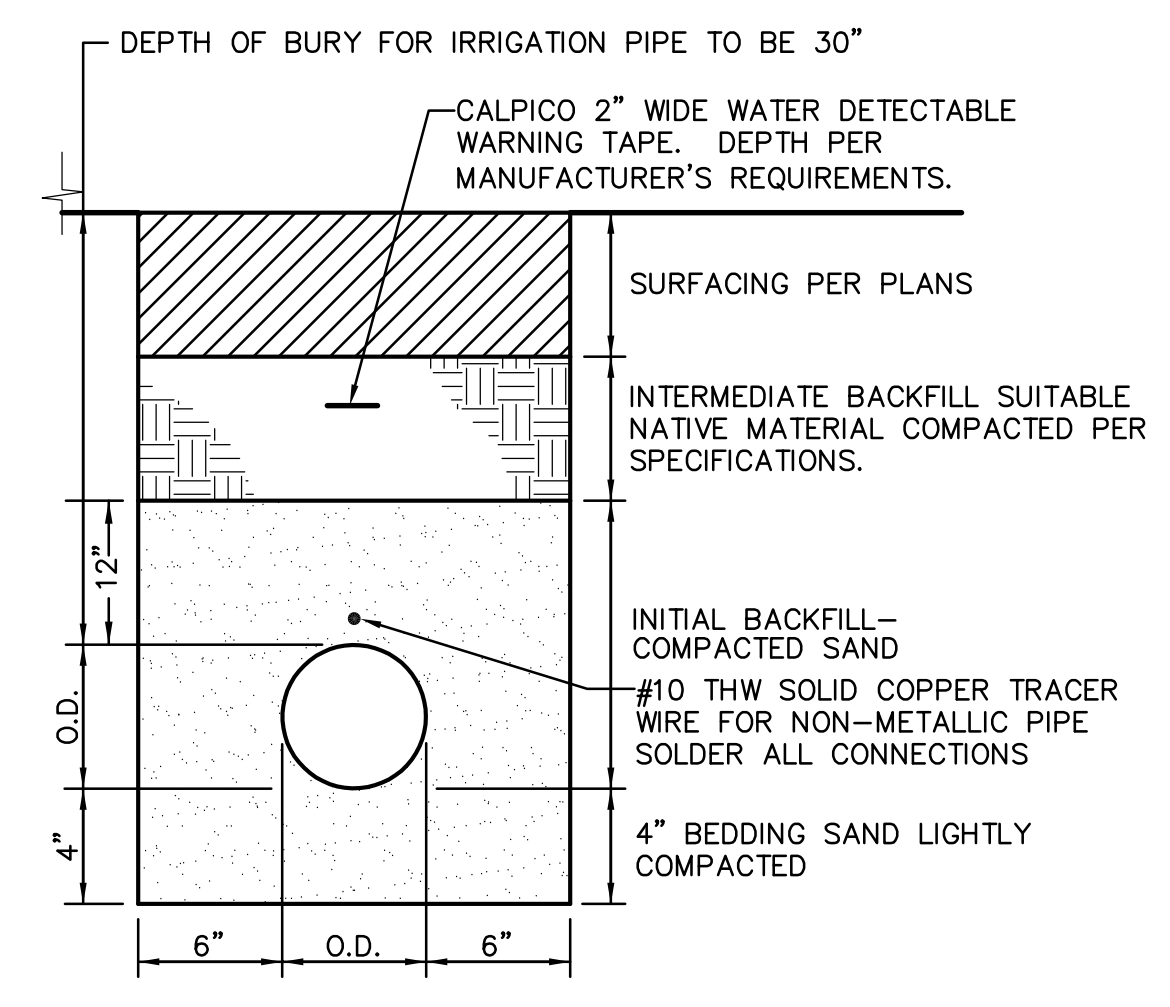
- MATCH EXISTING GRADE/ELEVATION.
- CONSTRUCT CONCRETE SIDEWALK PER PLACE 5" PCC WITH #4 REBAR AT 24" O.C.E.W. OVER 12" CL2 AGGREGATE BASE ON COMPACTED SUBGRADE.
- DOWEL INTO EXISTING CONCRETE PER (1) C2.1
- PLACE SOD IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE PAVEMENT. PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO ACHIEVE PROPER COVERAGE.
- PLACE 3" AC OVER 12" AB ON COMPACTED SUBGRADE.
- PLACE TRUNCATED DOMES PER (2) C2.1
- CONSTRUCT CONCRETE CURB PER (2) C2.1
- TAPER LAST 6" OF CURB AT 45° TO FLUSH WITH ADJACENT GRADE.
- REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING. PATCH BACK PAVING PER DETAIL (4) C2.1
- PLACE IRRIGATION PIPE. SIZE TO MATCH EXISTING LINE SIZE (5) C2.1
- CONNECT TO EXISTING IRRIGATION PIPE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
- PLACE 2-SACK CONCRETE SLURRY FROM TOP OF EXISTING ELECTRICAL CONDUIT TO 6" MIN. ABOVE PIPE, EXTENDING 6" ON EITHER SIDE OF PIPE.

GRAPHIC SCALE

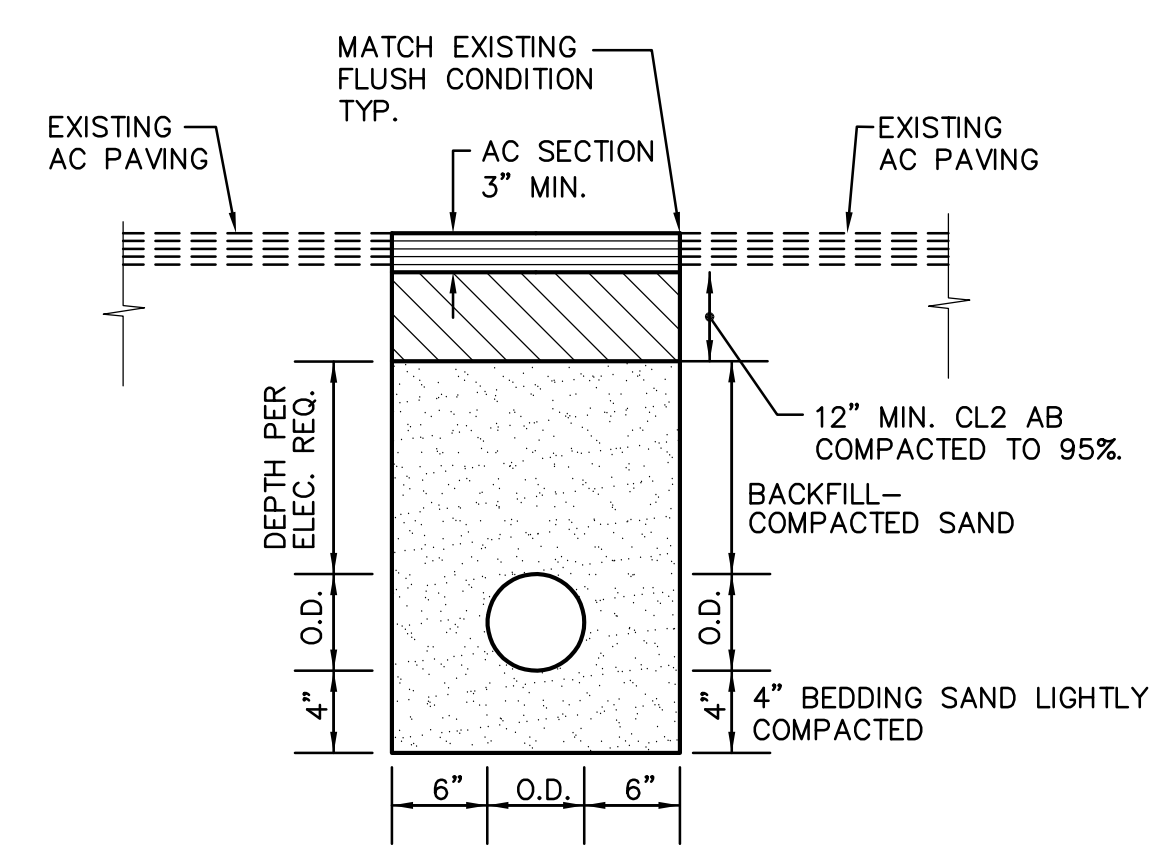


GRADING AND PAVING PLAN - SHADE STRUCTURE

SCALE: 1"=10'

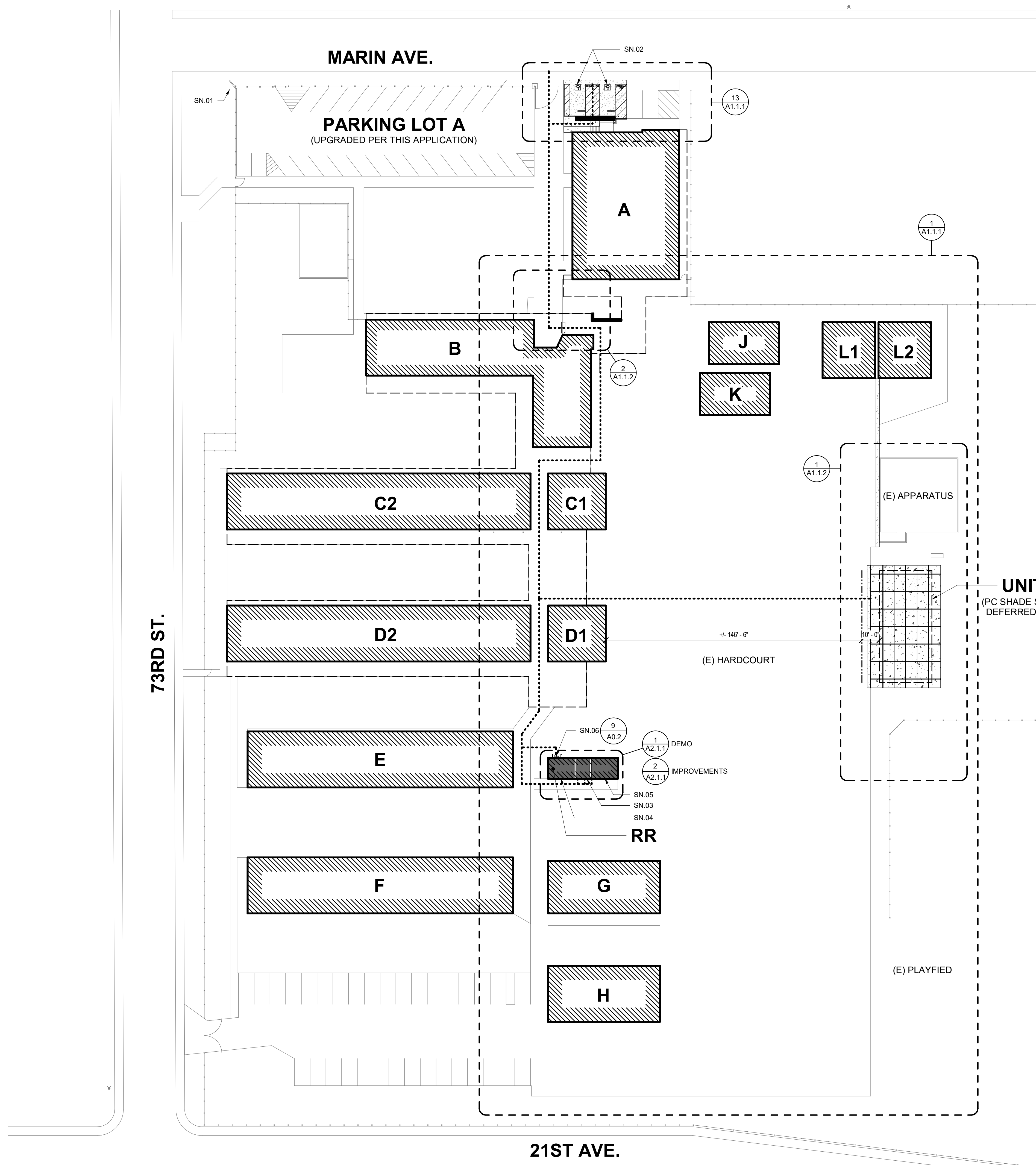


C2.1 WATER TRENCH NO SCALE



C2.1 ASPHALT PATCH AT TRENCH NO SCALE

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1 SITE PLAN
1" = 30'-0"

PROPOSED SHADE STRUCTURE						
UNIT	DESCRIPTION	OCCUPANCY	CONSTRUCTION TYPE	ALLOWABLE AREA (TABLE 506.2)	ACTUAL AREA	OCCUPANCY CALCULATION
SS	SHADE STRUCTURE	A-3	V-B NON-SPRINKLERED	6,000 S.F.	1,920 S.F.	1,920 S.F. / 15 NET = 128 OCC.

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	MULTIPURPOSE	14987	5,155	
B	ADMINISTRATION	9090	5,086	
C1-C2	CLASSROOMS / TOILET ROOMS	9090	6,608	
D1-D2	CLASSROOMS / TOILET ROOMS	9090	6,608	OCCUPANCY: E CONSTRUCTION: V-B
E	RELOCATABLE CLASSROOMS	02-102373	960 EACH	
F	RELOCATABLE CLASSROOMS	02-102373	960 EACH	
G	RELOCATABLE CLASSROOMS	30540, 78949	960 EACH	
H	RELOCATABLE CLASSROOMS	-	960 EACH	
J	RELOCATABLE CLASSROOMS	-	960	
K	RELOCATABLE CLASSROOMS	-	960	
L1-L2	RELOCATABLE CLASSROOMS	-	960 EACH	
RR	TOILET ROOMS	02-102373, THIS APPLICATION	480	

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: 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 NON-COMPLIANT:

- HAVE BEEN IDENTIFIED AND
- THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT TO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE PARKING STALL CALCULATION	
TOTAL PARKING STALL COUNT:	29 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	2 (26-50 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	1 STANDARD & 1 VAN

LEGEND

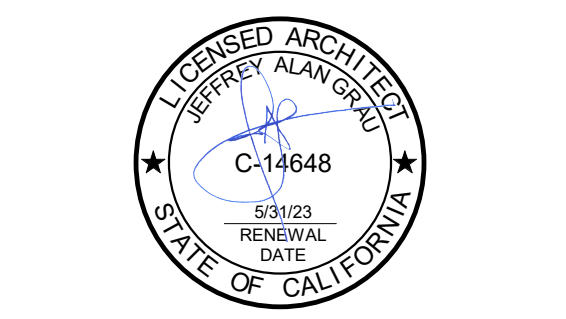
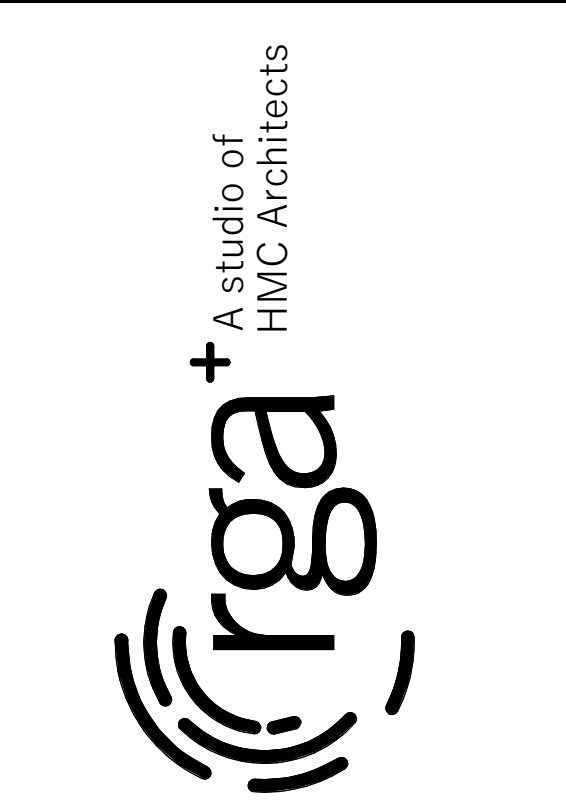
- PROPERTY LINE
- ASSUMED PROPERTY LINE
- UNIT DESIGNATION
- PC SHADE STRUCTURE / DEFERRED APPROVAL
- UNIT DESIGNATION
- EXISTING BUILDINGS
- EXPANSION JOINT
- CONCRETE WALK / PAVING
- CONTROL JOINT
- ASPHALT CONCRETE PAVING
- ACCESSIBLE PATH OF TRAVEL

- SITE WALKWAYS SHALL PROVIDE A BARRIER-FREE P.O.T. ABRUPT CHANGES IN LEVEL ALONG ANY P.O.T. ARE ALLOWED UP TO 1/2" ONLY. ABRUPT CHANGES IN ELEVATION UP TO 1/4" ARE ALLOWED TO HAVE A VERTICAL TRANSITION. ABRUPT CHANGES IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1. UNIT VERTICAL TO 2 UNITS HORIZONTAL SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1. WALKWAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRATINGS WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE OPENINGS WHICH DO NOT EXCEED 1/2" IN THE DIRECTION OF TRAVEL PER CBC SECTION 11B-302.3.
- AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
- SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1:1 UNIT VERTICAL TO 2 UNITS HORIZONTAL SHALL BE CONSIDERED A RAMP AND WILL REQUIRE HANDRAILS ON BOTH SIDES PER CBC SECTION 11B-506. SLOPES IN THE DIRECTION OF THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES IN THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 2%.
- ALL WALKWAYS WITHIN THE P.O.T. SHALL BE A MINIMUM OF 48" IN WIDTH. SURFACES WITH A SLOPE OF 5% OR LESS SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH. SURFACES WITH A SLOPE OF MORE THAN 5% SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH.
- OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE WITHIN THE P.O.T. PER CBC SECTION 11B-307.
- PASSING SPACES (11B-403.5.3) OF 60" X 60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE 60" IN LENGTH LEVEL RESTING AREAS (11B-403.7) NOT MORE THAN 400' APART. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND FREE OF PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES (11B-307.5).

SHEET NOTES

- SN.01 (E) PARKING LOT ENTRANCE SIGN PER DSA #02-102373 PER THIS APPLICATION
- SN.02 ACCESSIBLE PARKING STALLS PER THIS APPLICATION
- SN.03 (E) ACCESSIBLE STAFF TOILET ROOM UPGRADED PER THIS APPLICATION
- SN.04 (E) ACCESSIBLE GIRL'S TOILET ROOM UPGRADED PER THIS APPLICATION
- SN.05 (E) ACCESSIBLE BOYS TOILET ROOM UPGRADED PER THIS APPLICATION
- SN.06 (E) ACCESSIBLE DRINKING FOUNTAIN UPGRADED PER THIS APPLICATION

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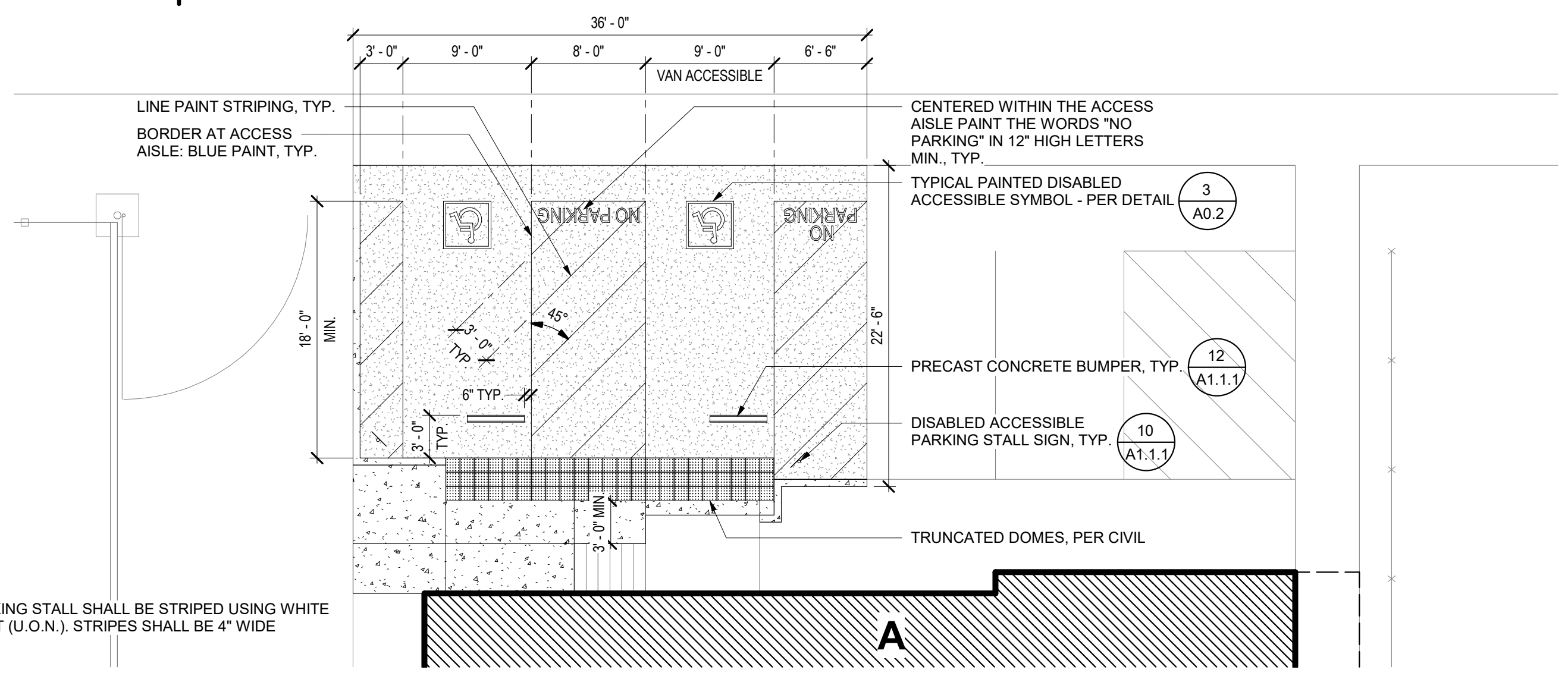
SHADE STRUCTURE AT NEW JOSEPH BONNHHEIM ELEMENTARY SCHOOL
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SACRAMENTO, CA

Revision

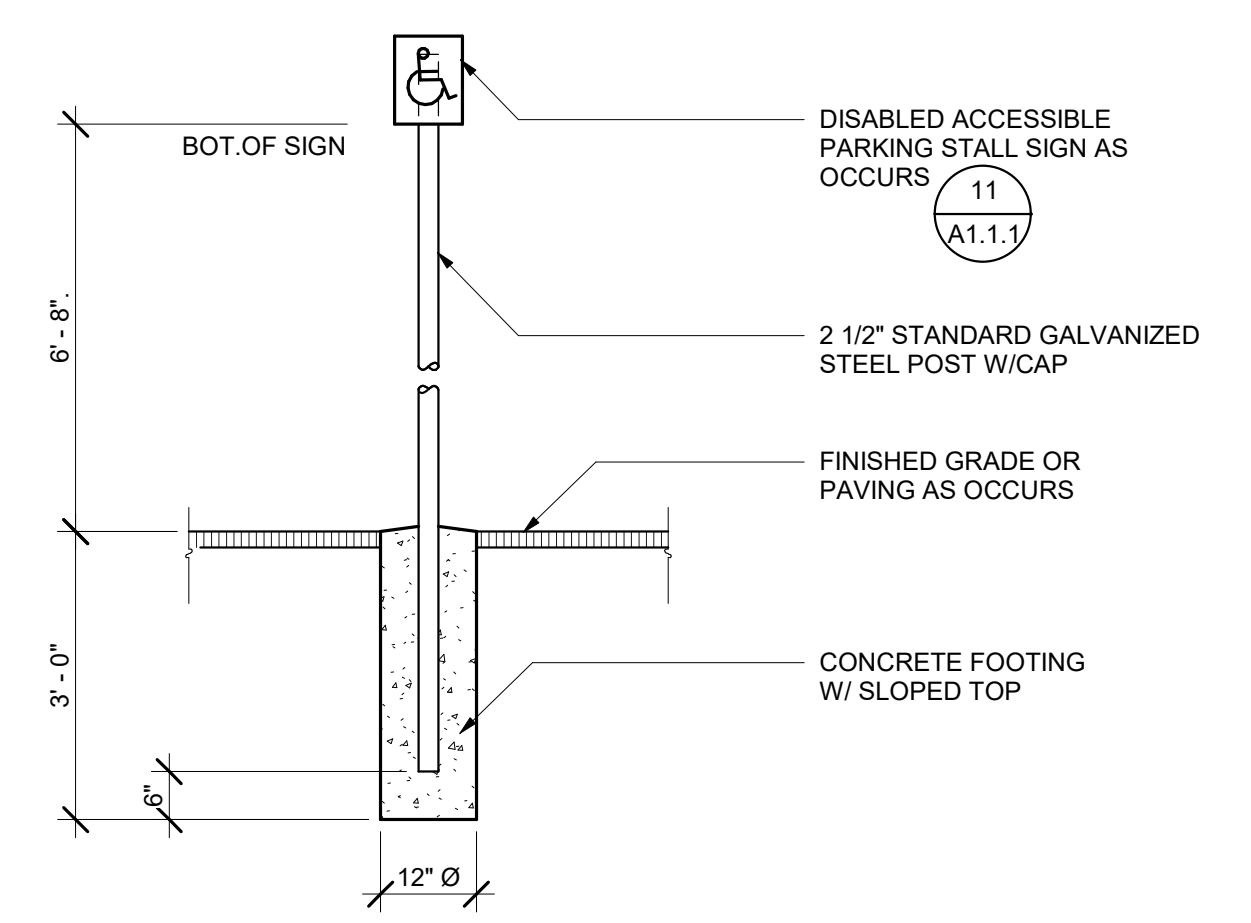
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SITE PLAN AND CODE INFORMATION

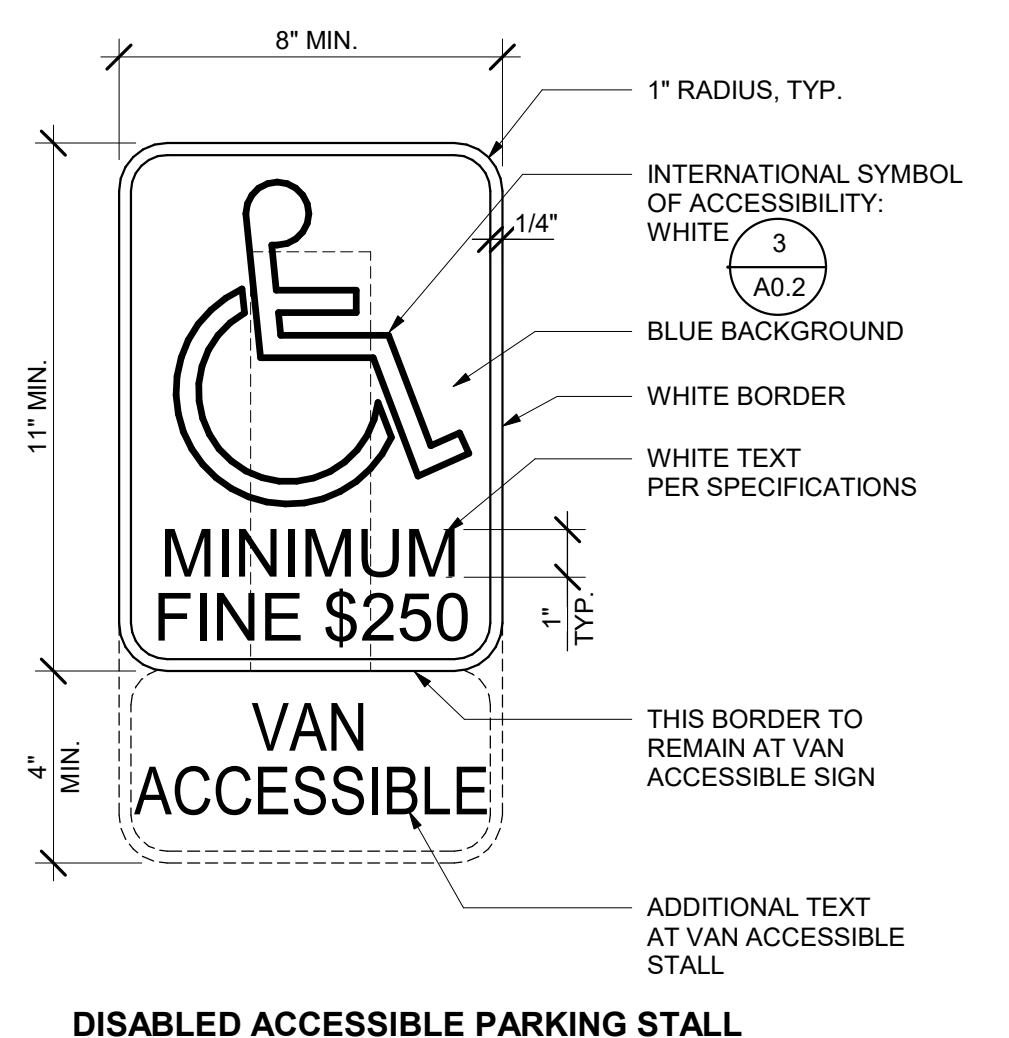
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DATE: 3/3/22
SHEET **A11.0**



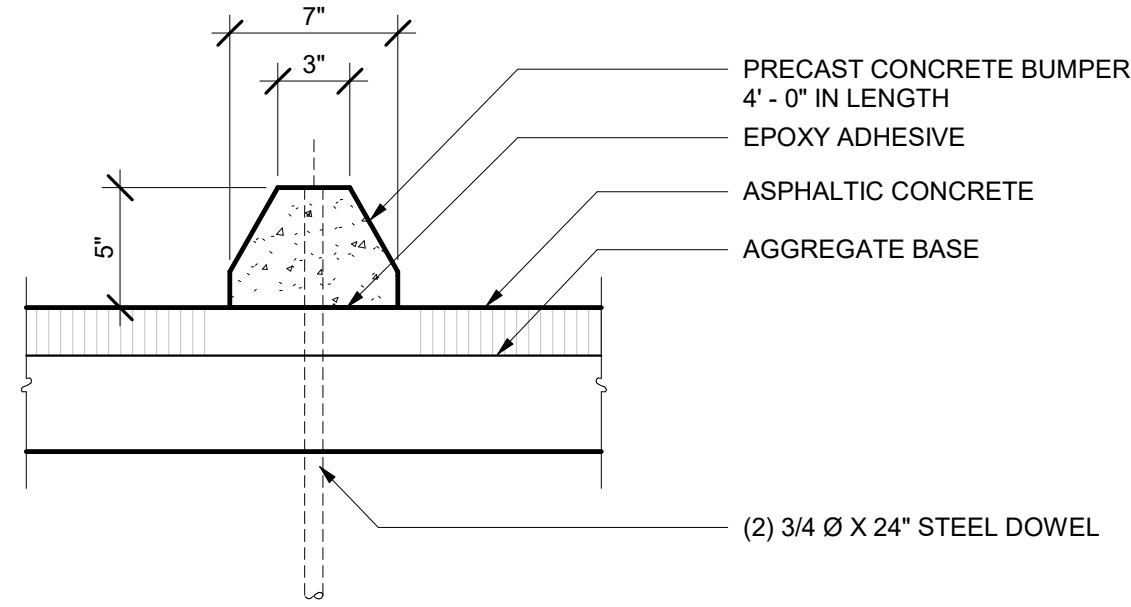
13 ENLARGED SITE PLAN - PARKING
 1/8" = 1'-0"



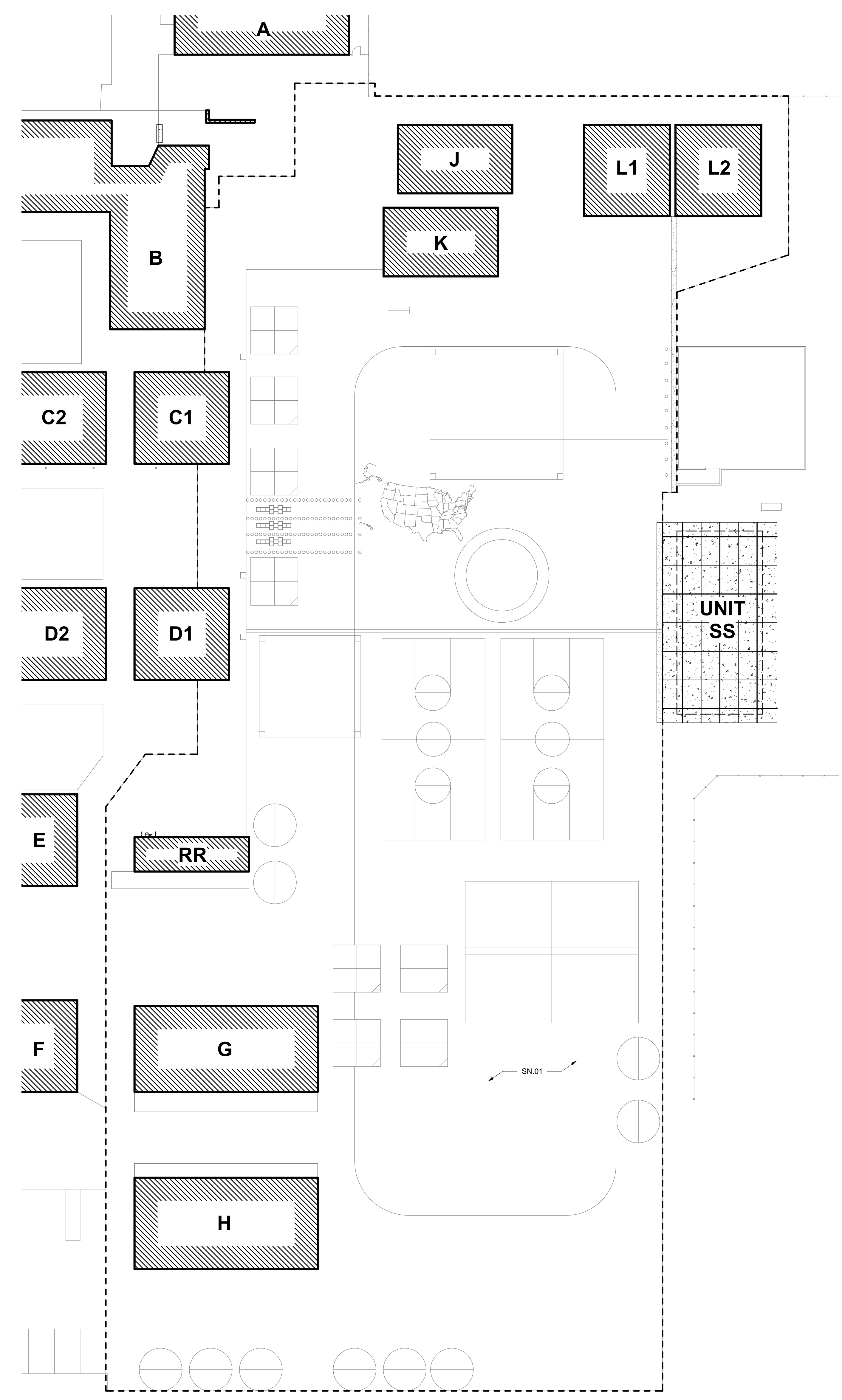
10 METAL SIGNS
 1/2" = 1'-0"
 10100



11 PARKING SIGNAGE
 3/8" = 1'-0"



12 PRECAST CONCRETE BUMPER
 1/12" = 1'-0"
 32100



1 ENLARGED SITE PLAN - HARDCOURT STRIPING
 1" = 20'-0"

LEGEND

- PROPERTY LINE
- ASSUMED PROPERTY LINE
- UNIT DESIGNATION
- PC SHADE STRUCTURE / DEFERRED APPROVAL
- UNIT DESIGNATION
- EXISTING BUILDINGS
- EXPANSION JOINT
- CONCRETE WALK / PAVING CONTROL JOINT
- ASPHALT CONCRETE PAVING

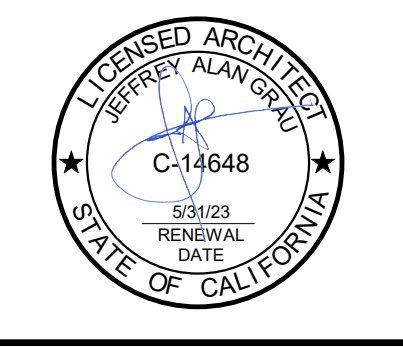
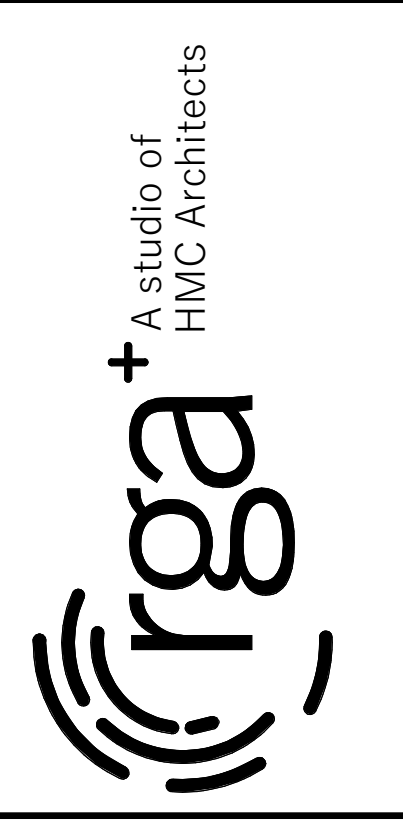
GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF CRACK REPAIR AT (E) HARDCOURT.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING (E) STRIPING CONDITIONS AND VERIFYING EXACT LAYOUT TO BE RESTRIPE WITH DISTRICT.

SHEET NOTES

SN.01 ALTERNATE 1: (E) HARDCOURT SHALL RECEIVE CRACK REPAIRS AND 2 COATS OF SEAL COAT. (E) STRIPING IS TO BE RESTRIPE OVER SEAL COAT. EXTENTS SHOWN DASHED

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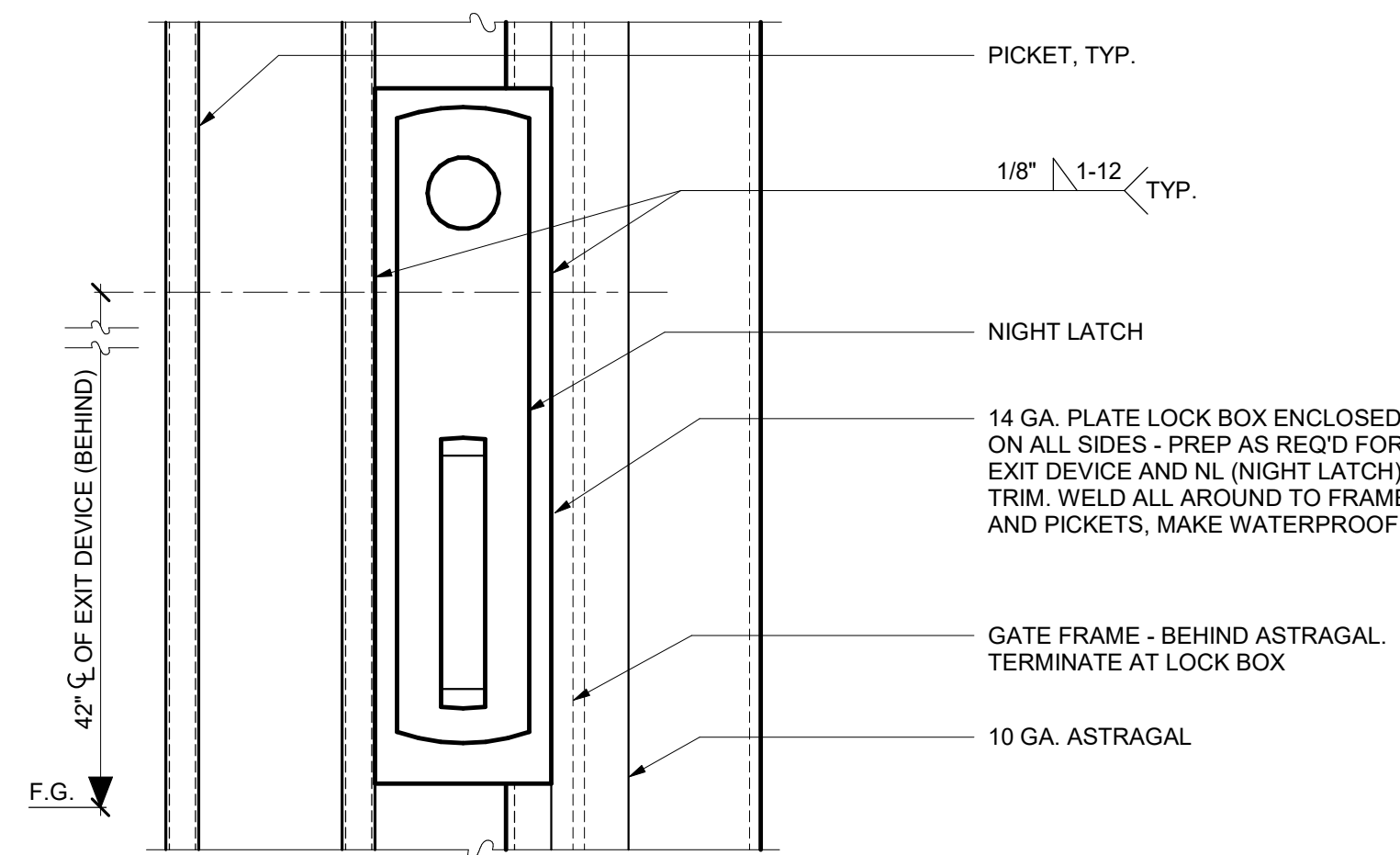
SHADE STRUCTURE AT NEW JOSEPH BONNHEIM ELEMENTARY SCHOOL
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 SACRAMENTO, CA

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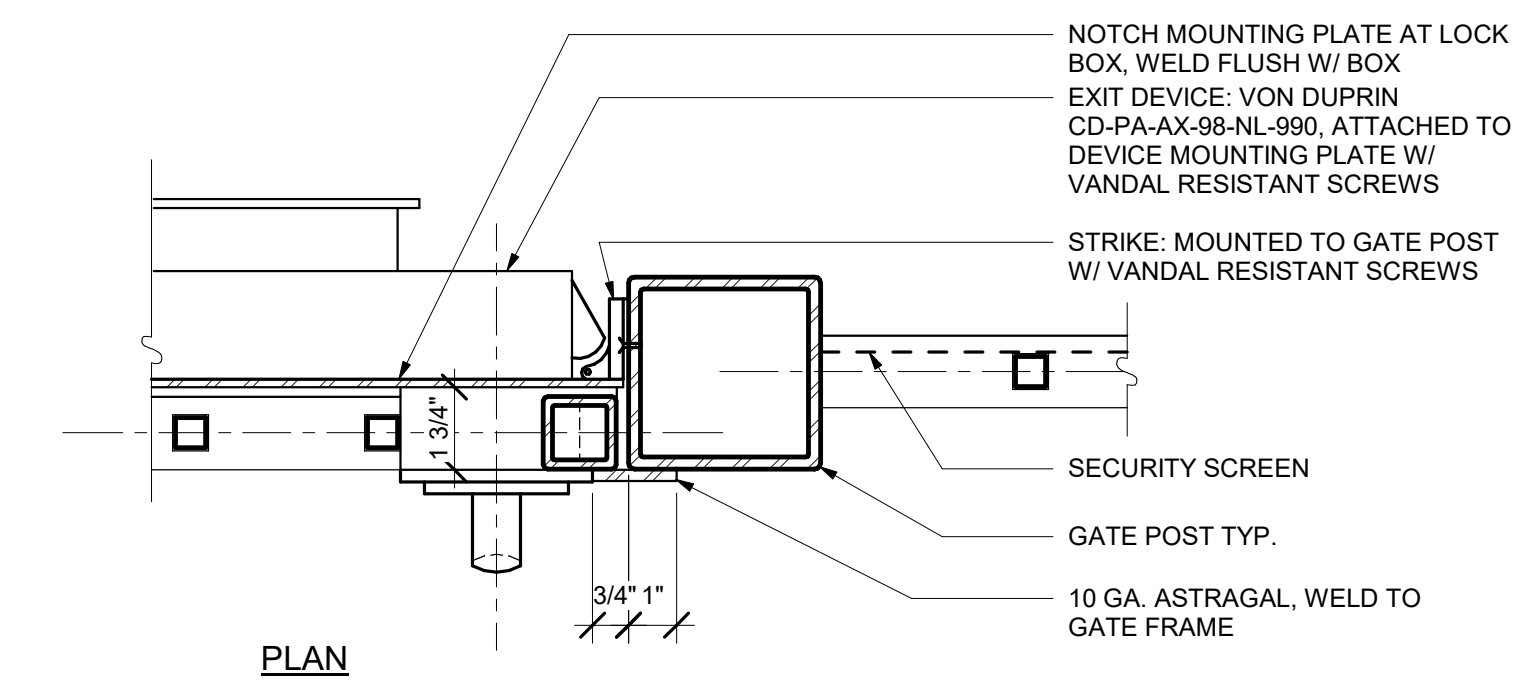
PARTIAL SITE PLANS AND DETAILS

PROJECT NO. 21-1504.04
 DATE: 3/3/22
 SHEET: A1.1.1

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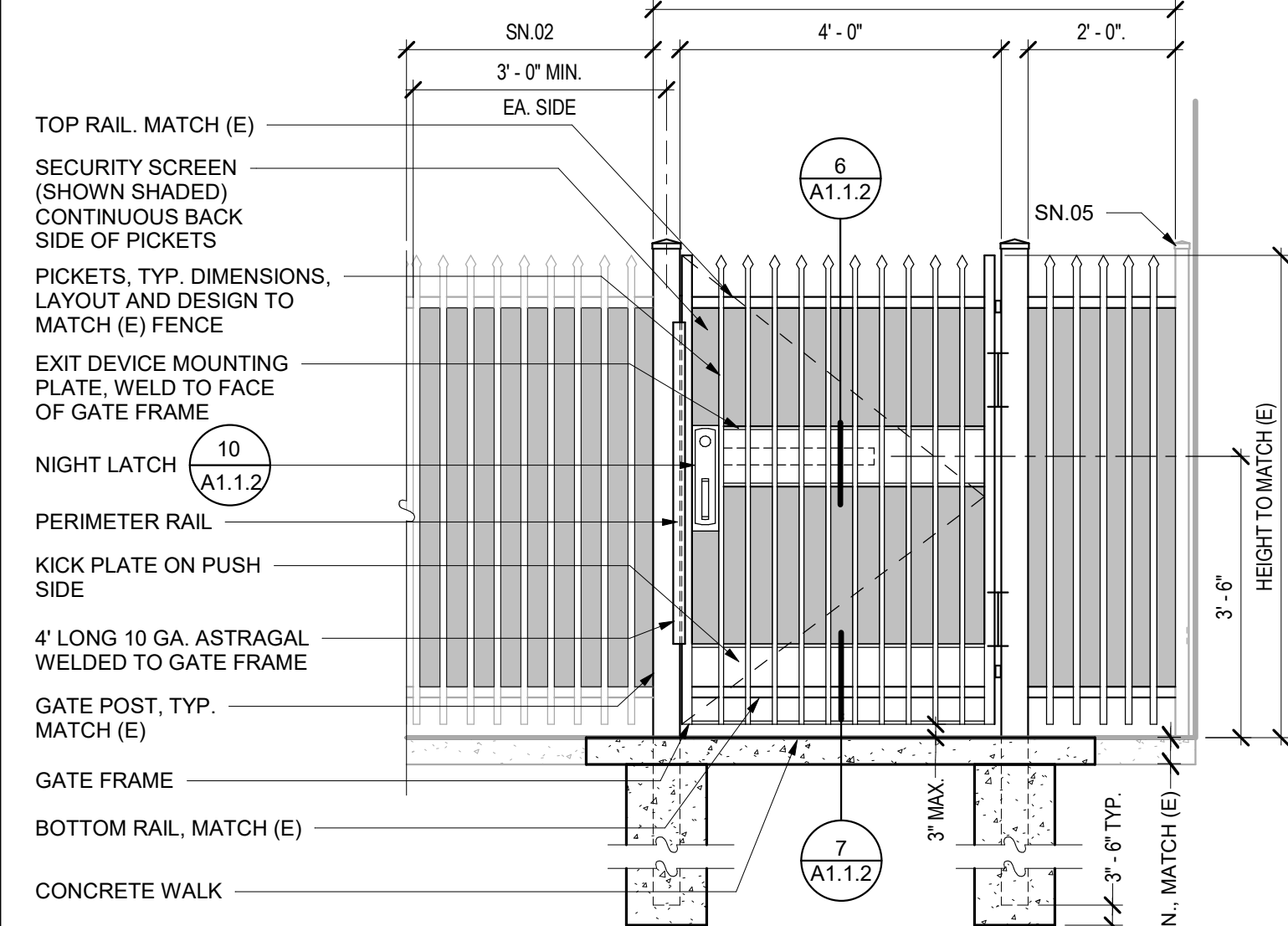


ELEVATION

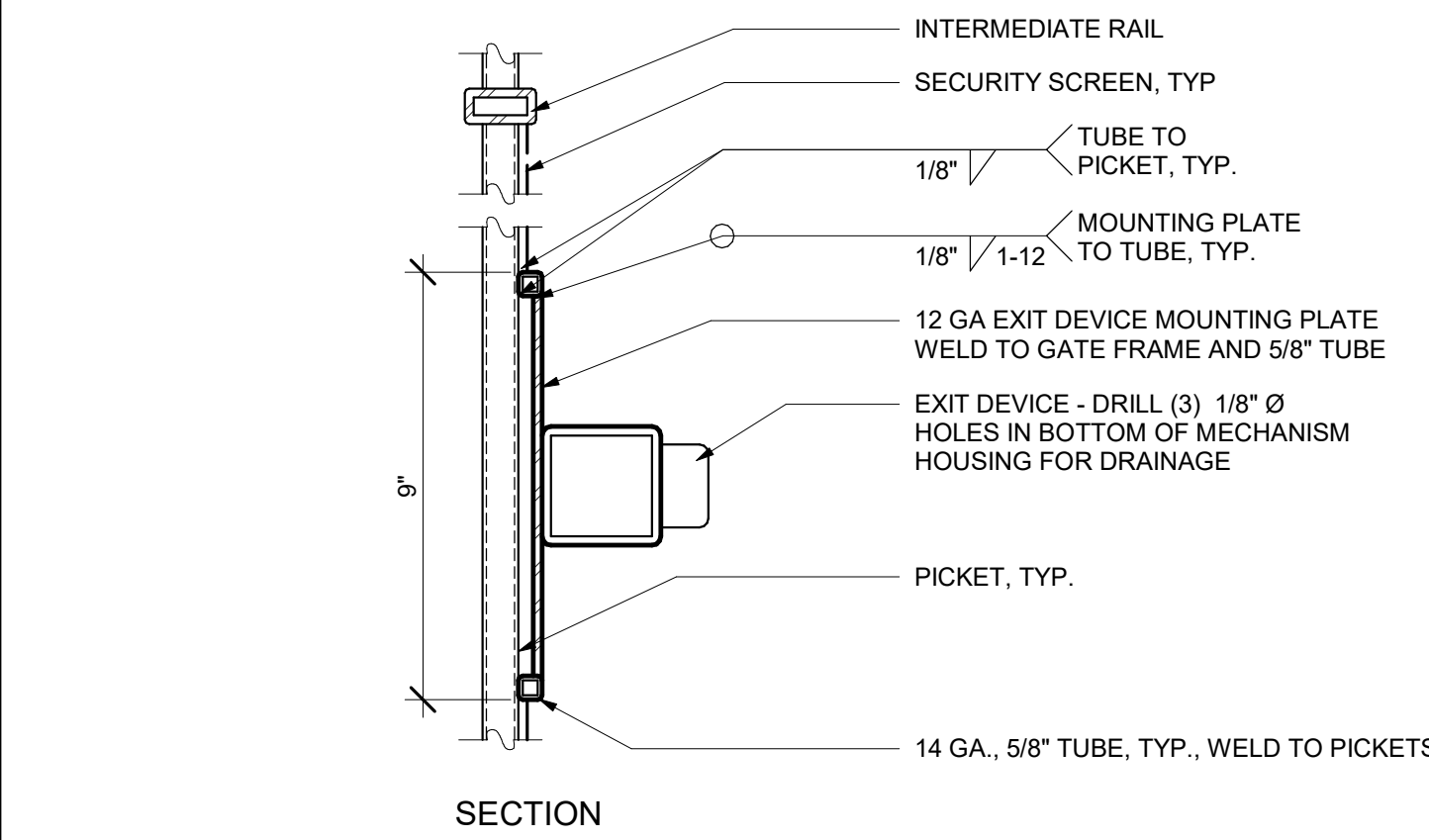


PLAN

10 EXIT HARDWARE
3" = 1'-0"

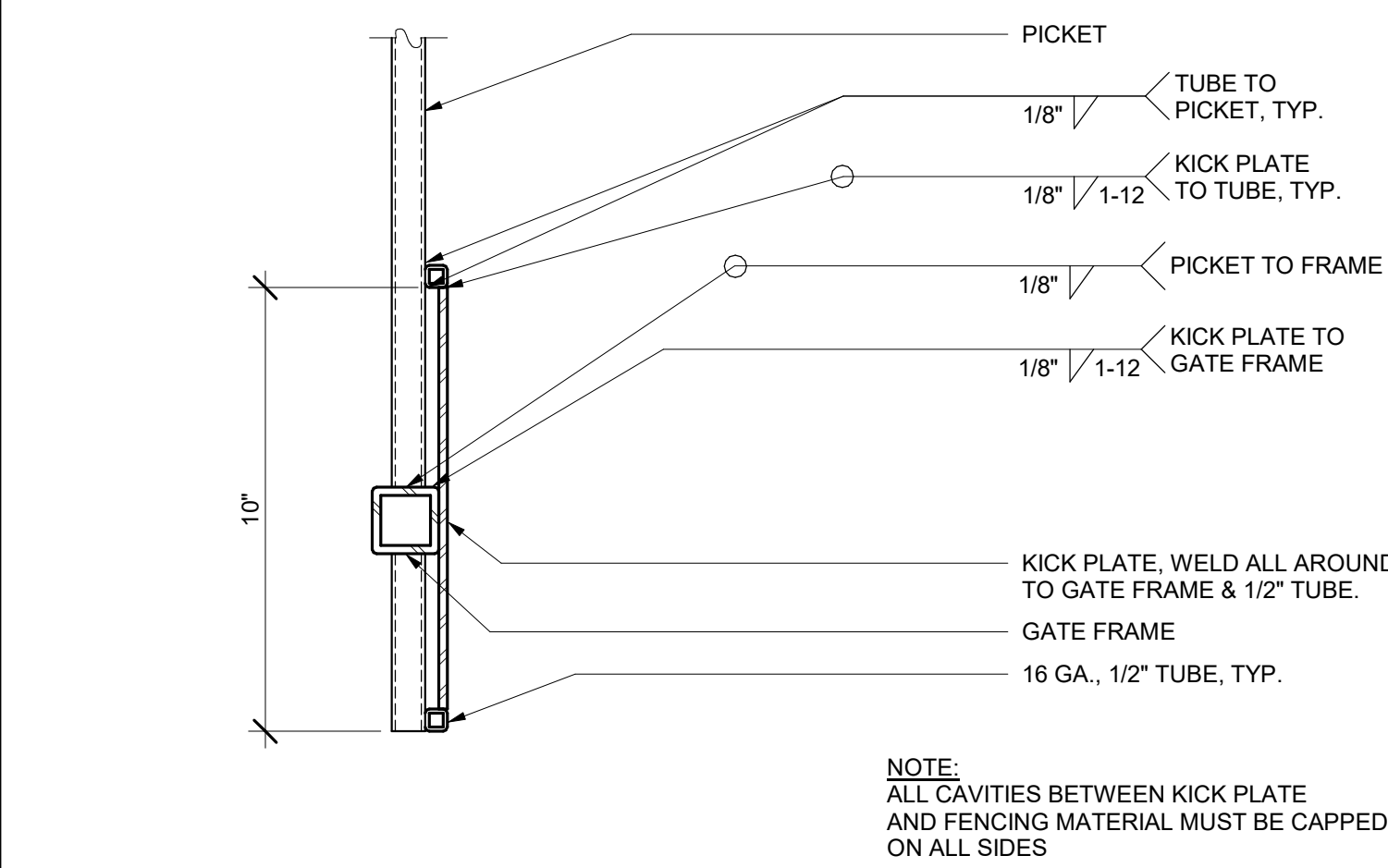


5 ORNAMENTAL METAL FENCE & GATE
1/2" = 1'-0"

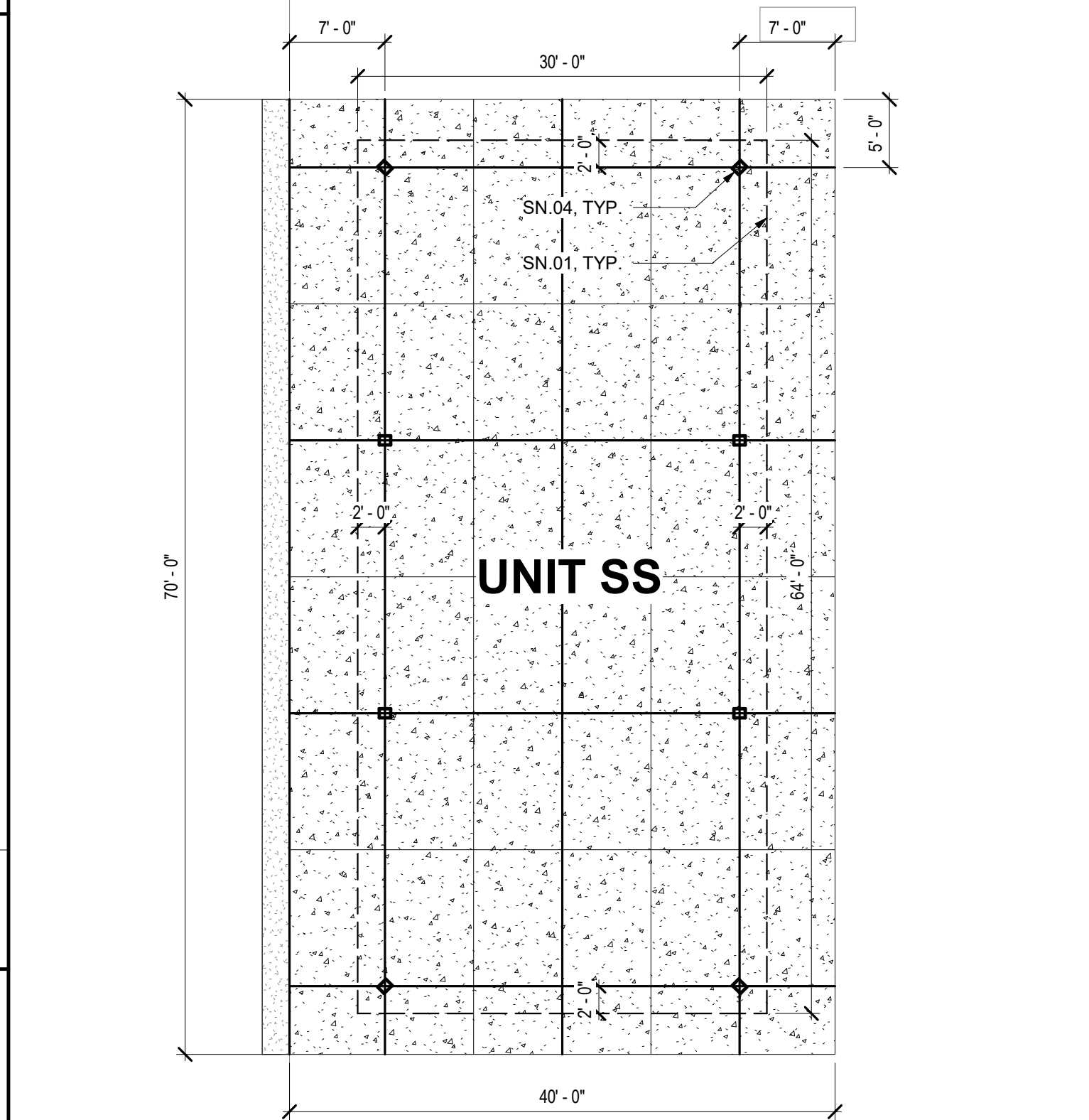
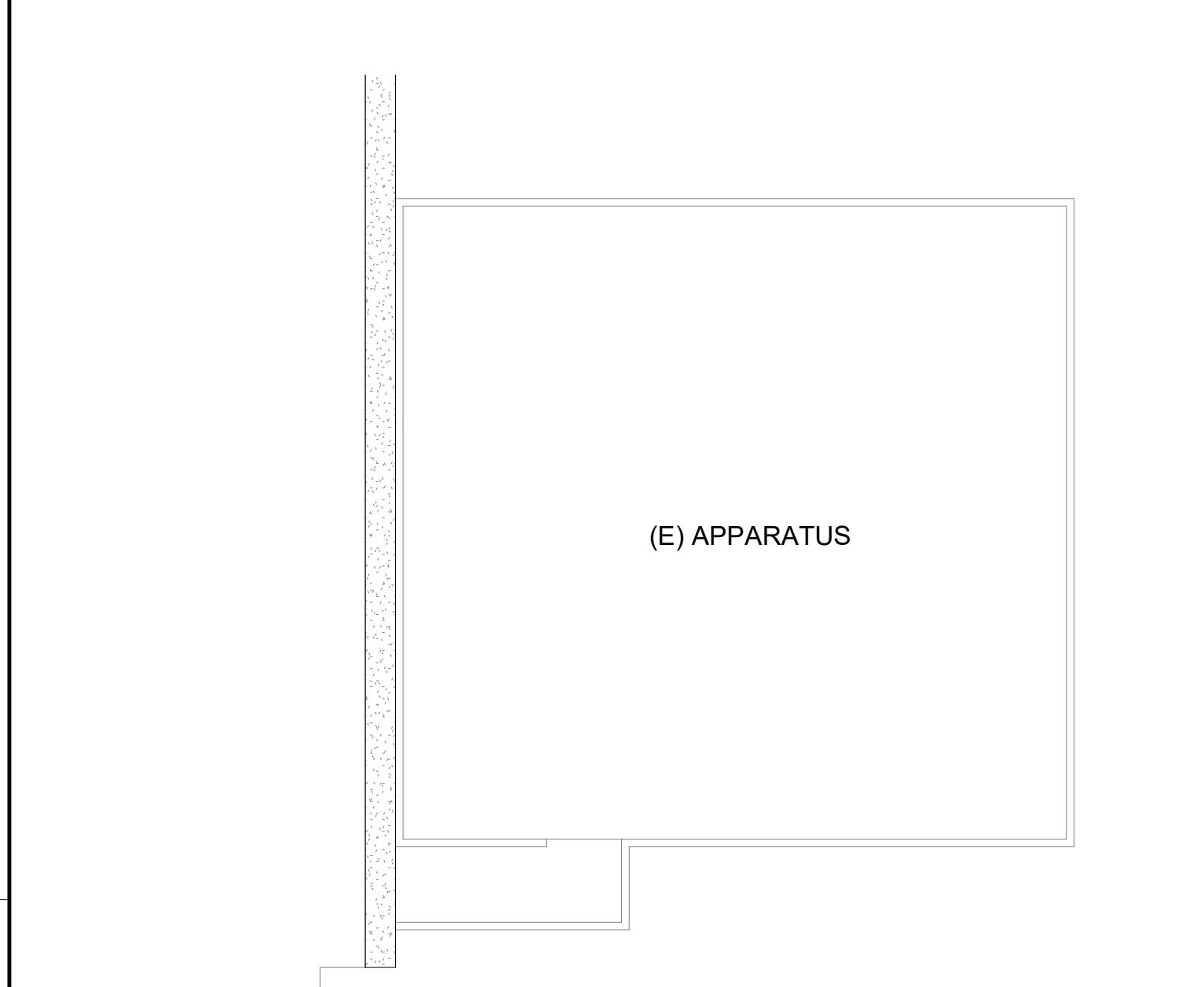


SECTION

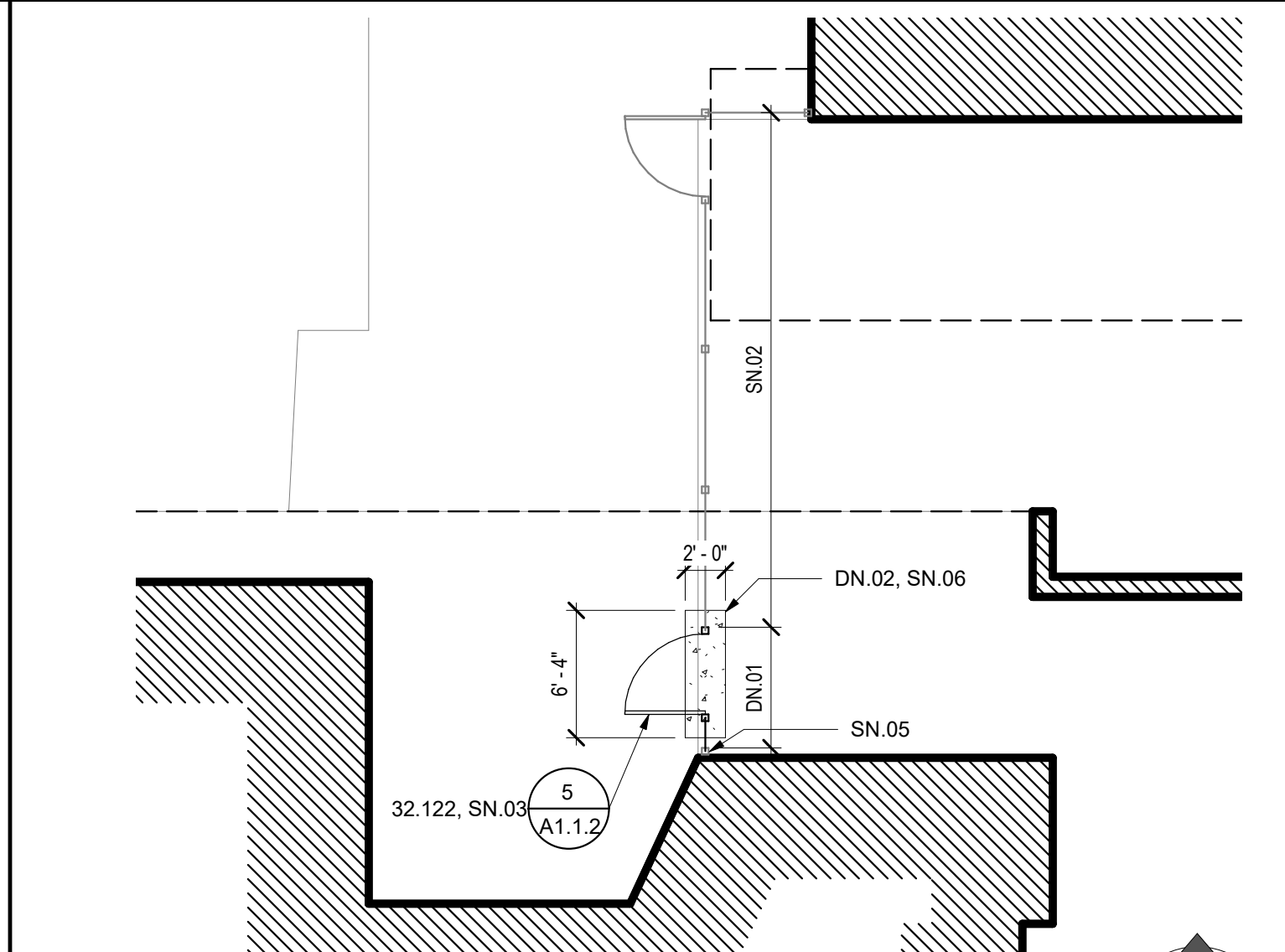
6 MOUNTING PLATE
3" = 1'-0"



7 KICK PLATE
3" = 1'-0"



1 ENLARGED SITE PLAN - SS
1" = 10'-0"



2 ENLARGED SITE PLAN - GATE
1/8" = 1'-0"

- LEGEND**
- - - - - PROPERTY LINE
 - - - - - ASSUMED PROPERTY LINE
 - [Symbol] UNIT DESIGNATION
 - [Symbol] PC SHADE STRUCTURE / DEFERRED APPROVAL
 - [Symbol] UNIT DESIGNATION
 - [Symbol] EXISTING BUILDINGS
 - [Symbol] EXPANSION JOINT
 - [Symbol] CONCRETE WALK / PAVING
 - [Symbol] CONTROL JOINT
 - [Symbol] ASPHALT CONCRETE PAVING

- DEMOLITION NOTES**
- DN.01 CAREFULLY REMOVE PORTION OF (E) WELDED ORNAMENTAL FENCE AND (E) FENCE POSTS TO ACCOMMODATE FOR NEW GATE POSTS AND GATE.
 - DN.02 REMOVE (E) SECTION OF CONCRETE SLAB

- SHEET NOTES**
- SN.01 ROOF OVERHANG ABOVE, PER PC SHADE STRUCTURE / DEFERRED APPROVAL. CONTRACTOR IS RESPONSIBLE FOR FIELD CUTTING METAL ROOF PANELS FOR INSTALLATION.
 - SN.02 (E) PORTION OF FENCE TO REMAIN
 - SN.03 4' - 0" W SWING GATE, HEIGHT TO MATCH (E) FENCE HEIGHT
 - SN.04 HSS COLUMN AND FOOTING, PER PC SHADE STRUCTURE / DEFERRED APPROVAL
 - SN.05 (E) FENCE POST TO REMAIN
 - SN.06 INSTALL NEW CONCRETE WITH 2% MAX. SLOPE IN ALL DIRECTIONS. EDGES TO HAVE A FLUSH TRANSITION TO (E) SLAB. SEE 11 A0.2

- KEYNOTES**
- 32.122 ORNAMENTAL METAL GATE

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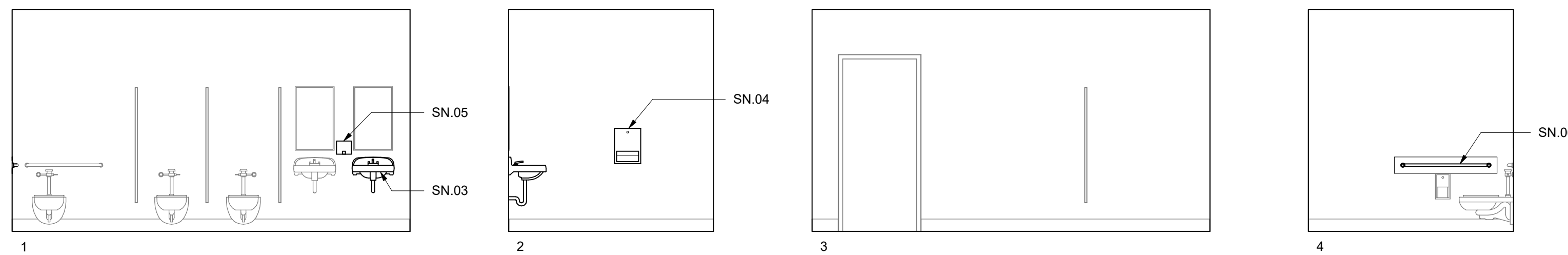
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5019
RENEWAL
DATE
STATE OF CALIFORNIA

SHADE STRUCTURE AT NEW JOSEPH BONNHEIM ELEMENTARY SCHOOL
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SACRAMENTO, CA

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PARTIAL SITE PLANS AND DETAILS

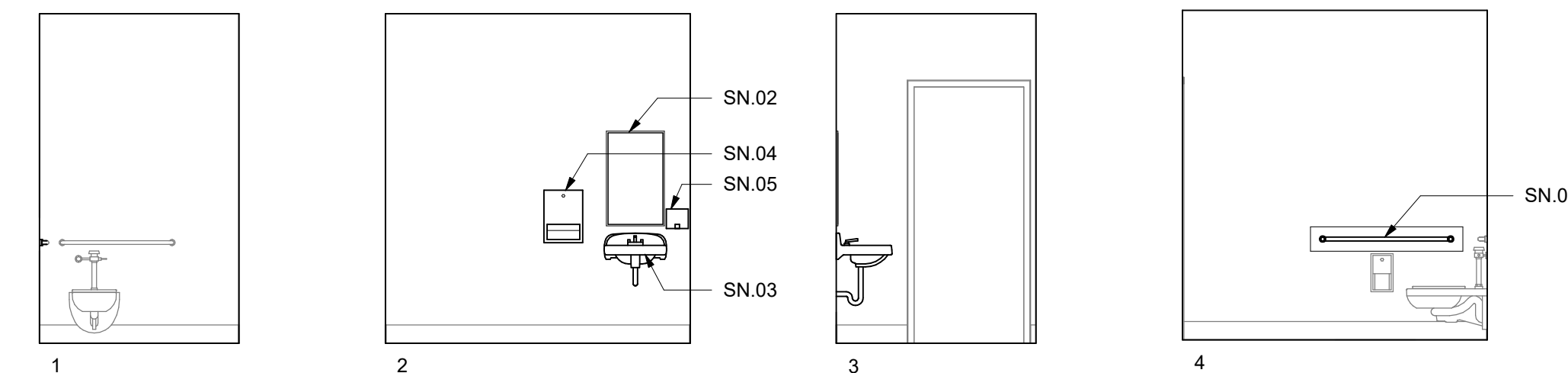
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DATE: 3/3/22
SHEET A1.1.2



RR101 - GIRLS

1/4" = 1'-0"

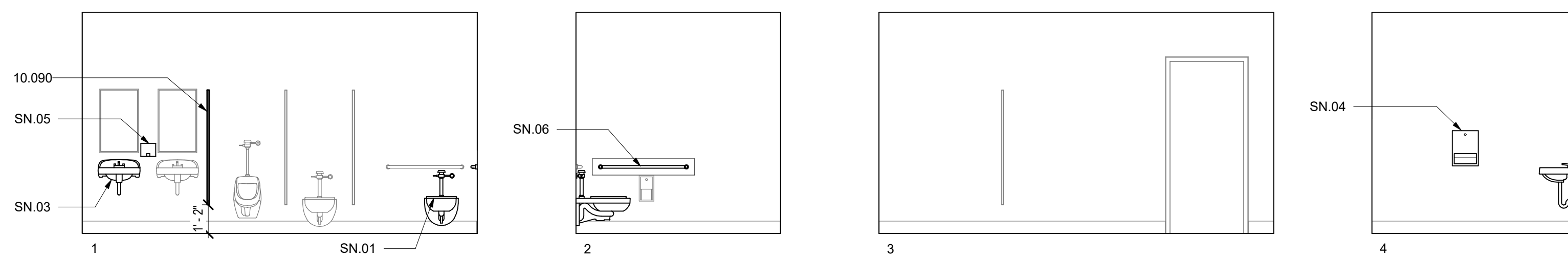
ADULT HEIGHT



RR102 - STAFF

1/4" = 1'-0"

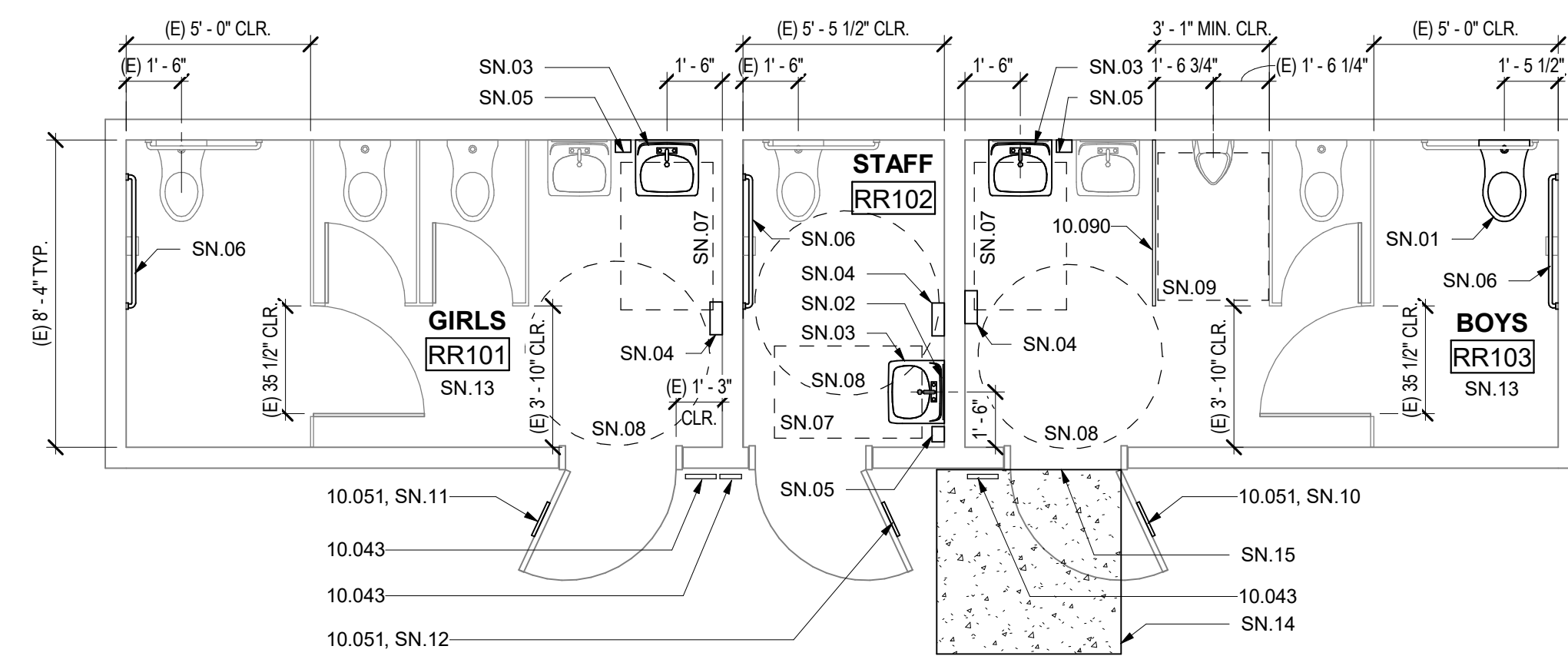
ADULT HEIGHT



RR103 - BOYS

1/4" = 1'-0"

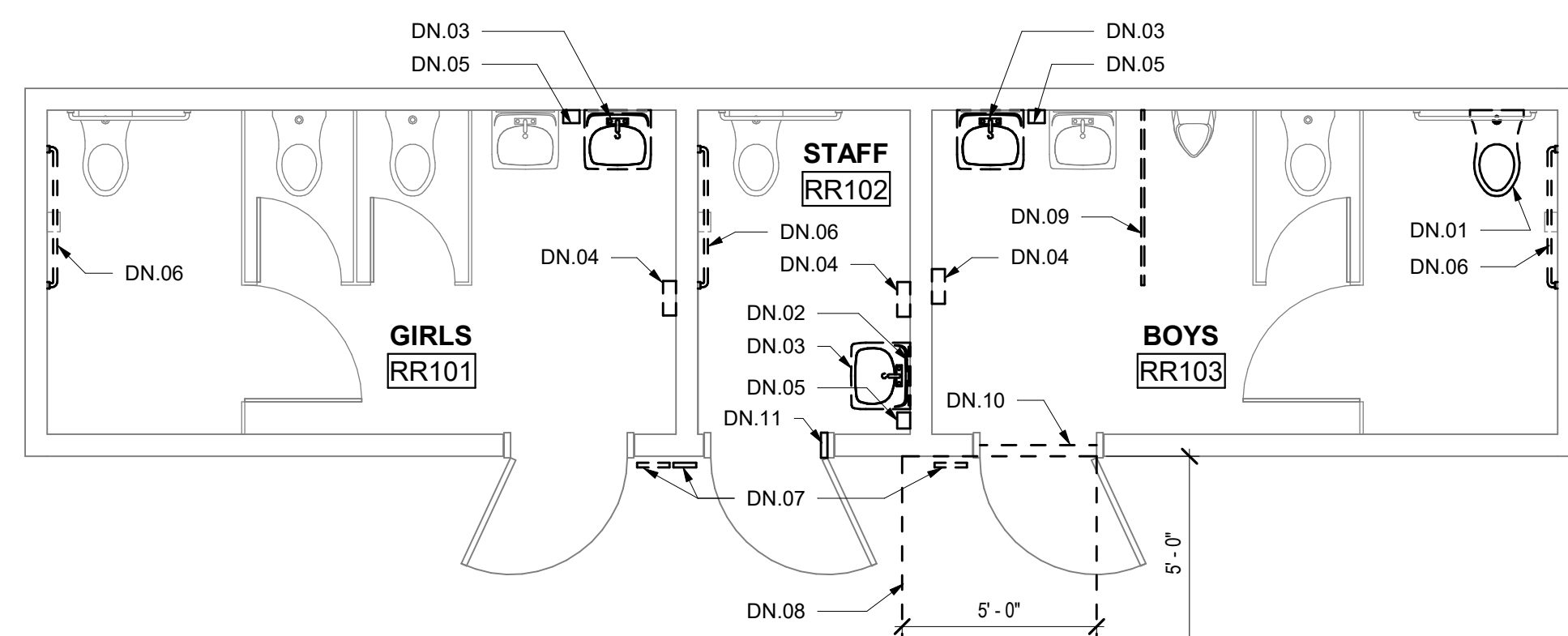
ADULT HEIGHT



2 ENLARGED TOILET ROOMS - IMPROVEMENTS

1/4" = 1'-0"

ADULT HEIGHT

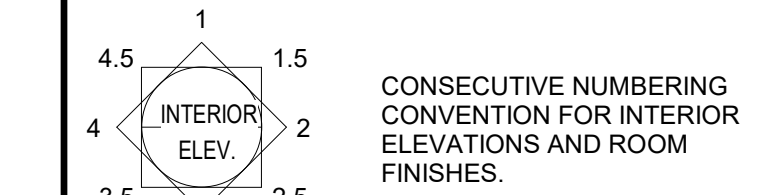


1 ENLARGED TOILET ROOMS - DEMOLITION

1/4" = 1'-0"

ADULT HEIGHT

LEGEND



GENERAL NOTES

- FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
- PROTECT ALL ADJACENT SURFACES, ITEMS AND FINISHES NOT NOTED TO BE DEMOLISHED.
- EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT.
- REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE.
- DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR.

DEMOLITION NOTES

- REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
- REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
- REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) SIDE WALL GRAB BAR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) TOILET ROOM I.D. SIGN
- REMOVE (E) SECTION OF CONCRETE SLAB
- REMOVE (E) TOILET PARTITION
- REMOVE (E) THRESHOLD
- REMOVE (E) CLOSER AT DOOR

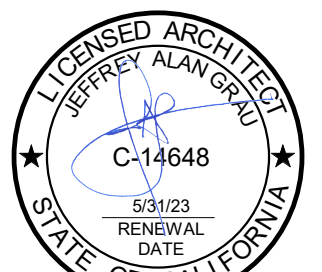
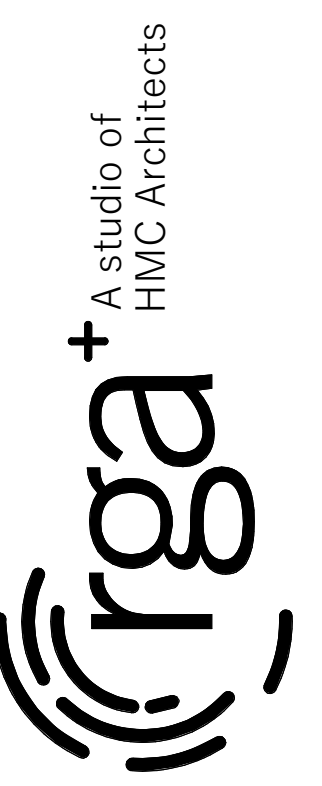
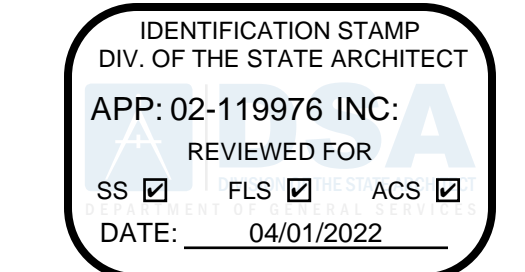
SHEET NOTES

- REINSTALL (E) SALVAGED WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO WATER CLOSET.
- RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.
- REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2.
- REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.
- REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2.
- REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2.
- REINSTALL (E) SALVAGED GRAB BAR TO COMPLY WITH A0.2.
- 30" X 48" CLEAR SPACE
- 60" DIA. TURNING CIRCLE
- 30" X 48" CLEAR SPACE
- SIGN TO READ "BOYS"
- SIGN TO READ "GIRLS"
- SIGN TO READ "STAFF"
- WRAP ALL EXPOSED PIPES WITH INSULATION
- INSTALL NEW CONCRETE WITH 2% MAX. SLOPE IN ALL DIRECTIONS. EDGES TO HAVE A FLUSH TRANSITION TO (E) SLAB. SEE 11 A0.2, 12 A0.2

- SN.15 INSTALL DOOR THRESHOLD PER 12 A0.2

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
- 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
- 10.090 COMPOSITE TOILET COMPARTMENT



SHADE STRUCTURE AT NEW JOSEPH BONNHHEIM ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Revision

TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS

UNIT RR PROJECT NO. 21-1504.04 DATE: 3/3/22 SHEET **A2.1.1**

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ABBREVIATION LIST

Ø	AT
A	AMPERE
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
AER	ARC ENERGY REDUCTION
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AT	AMPLIFIER SETTING
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BD	BOARD
BFC	BELOW FINISHED CEILING
BRKR	BREAKER
BLDG	BUILDING
BPS	BOOSTER POWER SUPPLY
C	CONDUIT
C/B	CIRCUIT BREAKER
C/CI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CRC	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY, WITH PULL LINE
CONT	CONTINUOUS
CU	COPPER
CWP	METALLIC COLD WATER PIPE
(D)	DEMOLISH
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
(E)	EXISTING
E/W	EACH WITH
EA	EACH
EL	EVENING LIGHT
ELEC	ELECTRIC
EM	EMERGENCY
EQ	ELECTRICAL METALLIC TUBING
END	END OF LINE DEVICE
EQUIP	EQUIPMENT
(ER)	EXISTING RELOCATED
EW	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(F)	FUTURE
FAFP	FIRE ALARM CONTROL PANEL
FAEP	FIRE ALARM EXTENDER PANEL
FATC	FIRE ALARM TERMINAL CABINET
FBO	FURNISHED BY OTHERS
FLUOR	FLUORESCENT
FT	FOOT
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GLZ	GENERAL LIGHTING ZONE
GND	GROUND
GP	METALLIC GAS PIPE
GYP	GYP-SUM
HID	HIGH INTENSITY DISCHARGE
HT	HORSE POWER
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
IN	INCH
ISC	SHORT CIRCUIT CURRENT (RMS SYMMETRICAL)
ISO	ISOLATED
J-BOX	JUNCTION BOX
KMIL	THOUSAND CIRCULAR MILLS
KVA	KILO VOLT AMP
KW	KILOWATT
LC	LIGHTING CONTROL PANEL
LV	LOW VOLTAGE
MCM	METALLIC CIRCULAR MILLS
MECH	MECHANICAL
MDP	MAIN DISTRIBUTION PANEL
MI	METAL HALIDE
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MPOE	MAIN POINT OF ENTRY
MSB	MAIN SWITCHBOARD
(N)	NEW
NIC	NOT IN CONTRACT
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECS.
NL	NIGHT LIGHT
NO. #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OC/CI	OWNER FURNISHED, CONTRRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	POLE
PB	PULL BOX
PFB	PROVISION FOR FUTURE BREAKER W/ MOUNTING HARDWARE
PDZ	PRIMARY DAYLIT ZONE
PFCT	PROVISION FOR FUTURE CURRENT TRANSFORMER
PH, Ø	PHASE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	RELOCATE / RELOCATED
REQ'D	REQUIRED
RM	ROOM
RMC	RIGID METAL CONDUIT
(RR)	REMOVE AND REPLACE
SDZ	SECONDARY DAYLIT ZONE
SKZ	SKYLIGHT DAYLIT ZONE
SPEC	SPECIFICATION
STC	SIGNAL TERMINAL CABINET
SQ	SQUARE
SW	SWITCH
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING
TMGB	BUSBAR
TMB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TTB	TELEPHONE TERMINAL BOARD
UC	TYPICAL
UCN	UNDERGROUND
UNLESS	UNLESS OTHERWISE NOTED
V	VOLTS
WP	WEATHERPROOF
W	WEIGHT
W	WATT
W/	WITH
XFMR	TRANSFORMER
&	AND

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 WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
- PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
- THE SCHOOL SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY POWER SHUTDOWN OF EXISTING PANELS OR SERVICE. SCHEDULE OF SHUTDOWNS SHALL BE AT CONVENIENCE OF THE SCHOOL. THE SCHOOL MAY, AT THEIR OPTION, HAVE A REPRESENTATIVE PRESENT DURING SHUTDOWN. ALL WORK REQUIRING SHUTDOWNS OF EXISTING PANELS OR SERVICE SHALL BE DONE BETWEEN 12:00 AM MIDNIGHT AND 6:00AM WEEKDAYS OR ON SATURDAY AND SUNDAY. REQUIRED SHUTDOWNS SHALL BE KEPT TO A MINIMUM.
- ADEQUATELY STRAP AND SUPPORT ALL CONDUIT WORK PER CEC. IN GENERAL, SUPPORT ALL CONDUIT WITHIN THREE FEET (3') OF OUTLET BOX, CABINET OR PANEL AND MAXIMUM TEN FEET (10') ON CENTER THEREAFTER.
- CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
- ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
- LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
- CLEAN ALL EXTERIOR AND INTERIOR SURFACES OF PANELS AND ALL MATERIAL AND METAL SHAVINGS FROM PANEL AND CABINET INTERIORS. ALL OPENINGS SHALL BE SEALED AND APPLY TOUCH-UP SPRAY PAINT WHERE NEEDED.
- FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- CONTRACTOR WILL PROVIDE WARNING LABELS NOTING THE POTENTIAL FOR ELECTRIC ARC FLASH HAZARDS PER CEC 110.16. PROVIDE LABELS ON EQUIPMENT SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, MOTOR CONTROL CENTERS, MOTOR STARTER / CONTACTOR PANELS, DISCONNECTS, ETC.. PROVIDE WARNING LABELS BY BRADY, MODEL NO. 101517, OR EQUAL, ON ALL EQUIPMENT.
- INSTALLATION SHALL COMPLY WITH CEC 210.4 - EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. THEREFORE ANY CIRCUIT SHARING A COMMON NEUTRAL SHALL BE CAPABLE OF SIMULTANEOUS DISCONNECT OR DEDICATED NEUTRALS SHALL BE INSTALLED.
- SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
- SEAL CONDUIT OPENINGS THROUGH WALLS AND CEILING. INSTALL ESCUTCHEON PLATES AT BUILDING INTERIOR, WHERE EQUIPMENT IS INSTALLED ON THE EXTERIOR WALL, STUB CONDUITS THROUGH WALL AND SEAL CONDUIT OPENINGS, THEN INSTALL EXTERIOR EQUIPMENT. ALSO, SEAL AROUND THE PERIMETER EDGE OF THE EQUIPMENT ENCLOSURE BETWEEN THE ENCLOSURE AND BUILDING.
- CONDUITS INSTALLED ON ROOF AND BUILDING EXTERIOR SHALL BE RIGID GALV. STEEL (HEAVY WALL) WITH THREADED FITTINGS. CONDUIT AND WALL TO BE PAINTED OUT TO MATCH EXTERIOR FINISH.
- SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL (TERMINALS WITH TWO-HOLE PAD AND INSPECTION WINDOW WITH NEMA DRILLING), AS MANUFACTURED BY BURNDY TYPE YS, YAZ-ZN OR EQUAL. CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND, BURNDY PENETROX-E OR EQUAL. APPLY COMPOUND BETWEEN BUS AND LUG PAD AND BETWEEN CONDUCTOR AND LUG BARREL. INSTALL COMPRESSION CONNECTORS WITH 360° CIRCUMFERENTIAL COMPRESSION DYE, BURNDY HYPRESS OR EQUAL. THE INDENTER OR OTHER TYPE TOOLS WILL NOT BE ACCEPTABLE.
- INSTALL "MECHANICALLY FASTENED PHENOLIC NAMEPLATE WITH WHITE LETTERING ON BLACK BACKGROUND ON ALL EQUIPMENT, INCLUDING PULL BOXES, WITH DESCRIPTION INDICATED ON DRAWINGS. NAMEPLATES SHALL READ EXACTLY AS DESCRIBED ON THE DRAWINGS. IN GENERAL, NAMEPLATE LETTERING SIZE SHALL BE 3/16" HIGH FOR ALL NAMEPLATES SERVING FEEDER AND BRANCH CIRCUIT BREAKERS. ON MAIN SERVICE PANEL, DISTRIBUTION PANELS AND ALL OTHER NAMEPLATES LETTERING SHALL BE 1/4" HIGH.
- ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, VFD'S, MOTORS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, ETC., SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER CEC 408.4, FIELD IDENTIFICATION REQUIRED. (B) SOURCE OF SUPPLY.
- COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
- PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
- A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
- PROVIDE WRING DEVICES AND COVER PLATES IN COLOR(S) SELECTED BY ARCHITECT. THE COLOR OF THE WRING DEVICE AND COVER PLATE SHALL BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
- RECEPTACLE WEATHERPROOF COVERS SHALL BE LISTED "EXTRA DUTY", LOCKABLE, METAL, IN-USE TYPE.
- REINSTALL EXISTING ELECTRICAL INSTALLATIONS DISTURBED. CERTAIN EXISTING ELECTRICAL INSTALLATIONS MAY BE LOCATED IN WALLS, CEILING OR FLOORS THAT ARE TO BE REMOVED AND ARE ESSENTIAL FOR THE OPERATION OF OTHER REMAINING INSTALLATIONS. WHERE THIS CONDITIONS OCCURS, PROVIDE A NEW EXTENSION OF ORIGINAL CIRCUITS, RACEWAYS, EQUIPMENT AND OUTLETS TO RETAIN SERVICE CONTINUITY. INSTALLATIONS SHALL BE CONCEALED IN FINISHED AREAS.
- FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
- FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
- PROVIDE "LOOK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
- DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC. CONTRACTOR SHALL ACCEPT RESPONSIBILITY IN FAMILIARIZING THEMSELVES WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS ALONG WITH INHERENT SPACE LIMITATIONS. WITH THAT UNDERSTANDING SHALL PROVIDE ALL ITEMS OF LABOR, MATERIALS AND TOOLS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
- MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
- FOR INTERSECTING TRENCHED CONDUIT, MAINTAIN OR EXCEED THE MINIMUM CONDUIT DEPTH REQUIREMENTS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED AND BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVEABLE 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 110/20 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVEABLE 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., OSHPD OPM 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 OSHPD PRE-APPROVAL (OPM #) _____

SYMBOLS LIST

- | | |
|--|--|
| | FUSED DISCONNECT SWITCH |
| | DUPLEX CONVENIENCE OUTLET |
| | DOUBLE DUPLEX CONVENIENCE OUTLET |
| | GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET |
| | GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX OUTLET |
| | SPECIAL OUTLET TO MATCH CAP PROVIDED WITH MACHINE |
| | FLUSH FLOOR BOX OR "POKE-THRU" UNIT EQUIPPED WITH FLUSH OR PEDESTAL DUPLEX RECEPTACLE AND VOICE/DATA OUTLETS AS NOTED OR REFER TO SCHEDULE ON DRAWINGS. |
| | PLUGMOLD/WIREMOLD RECEPTACLE SYSTEM |
| | TRANSFORMER |
| | JUNCTION BOX, SIZE AS REQUIRED BY CODE |
| | FLEX CONNECTION TO FIXTURE |
| | PANELBOARD, RECESSED MOUNTED |
| | PANELBOARD, SURFACE MOUNTED |
| | MAIN SWITCHBOARD |
| | TERMINAL CABINET, RECESSED MOUNTED |
| | TERMINAL CABINET, SURFACE MOUNTED |
| | HOMERUN TO PANELBOARD OR RESPECTIVE TERMINAL |
| | CONDUIT RUN CONCEALED IN CEILING OR WALL, SEE SYMBOLS LIST NOTES |
| | CONDUIT RUN UNDERGROUND OR UNDER FLOOR |
| | EMERGENCY SYSTEM CONDUIT AND WIRES |
| | INSULATED GREEN GROUND CONDUCTOR |
| | INSULATED ISOLATED GROUND CONDUCTOR, GREEN WITH TRACER STRIPE |
| | CONDUIT RISER |
| | EXISTING EQUIPMENT, LIGHTING, DEVICES, CONDUIT, WIRING, ETC., ARE SHOWN LIGHT. NEW OR RELOCATED EQUIPMENT, LIGHTING, DEVICES, CONDUIT, WIRING, ETC., ARE SHOWN DARK. |
| | EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED |
| | WIREMOLD SURFACE RACEWAY(S) WITH OUTLETS AS SHOWN OR NOTED, SEE SURFACE RACEWAY SCHEDULE. |
| | SYMBOLS REFERRING TO KEYED NOTES ON SAME SHEET |
| | MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR |
| | DETAIL DESIGNATION, "A" SIGNIFIES DETAIL, "E-1" SIGNIFIES SHEET NUMBER |
| | (1)1-1/2" ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT |
| | ← NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS |

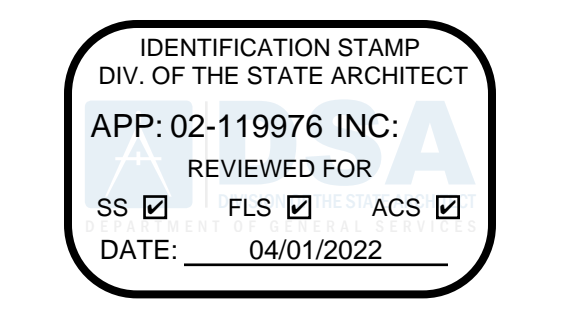
SYMBOLS LIST NOTES:

- MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
- MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- "A" ADJACENT TO OUTLET INDICATES OUTLET BOX TO BE MOUNTED ABOVE COUNTER, COORDINATE WITH COUNTER HEIGHT AND DEPTH PRIOR TO ROUGH IN. MOUNT OUTLET ABOVE COUNTERS AT:
 - +45" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
 - +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
- OUTLET BOXES SHALL BE:
 - WALL MOUNTED - 4" SQ. x 2-1/8" DEEP MINIMUM
 - CEILING MOUNTED - 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
- OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
- FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
- NO CROSSBARS ON CONDUIT RUN INDICATES MINIMUM 1" CONDUIT. TWO #10 CU CONDUCTORS PLUS #10 CU GND. CROSSBARS INDICATE NUMBER OF #10 CU CONDUCTORS IN CONDUIT. CONDUCTOR SIZES OTHER THAN #10 NOTED ON DRAWINGS. INCREASE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE C.E.C. WIRE FILL REQUIREMENTS. INCLUDE ADDITIONAL BOND WIRE IN ALL PVC AND FLEXIBLE CONDUIT. LONG CROSSBAR INDICATES NEUTRAL CONDUCTOR, SHORT CROSSBARS INDICATE PHASE CONDUCTORS.
- INCREASE BRANCH CIRCUIT CU CONDUCTOR SIZES AS REQUIRED BY THE 120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART BELOW. USE CONDUCTOR LENGTHS AS FIELD MEASURED, BASED UPON MEASURED FIELD ROUTING LENGTHS. INCREASE MINIMUM CONDUIT SIZE AS REQUIRED TO ACCOMMODATE A MAXIMUM 40% CONDUCTOR FILL OF THE BRANCH CIRCUIT CONDUCTORS. WHERE NECESSARY, PROVIDE A JUNCTION BOX AT ACCESSIBLE CEILING SPACE TO CONVERT THE LAST 15 FEET OF CONDUCTORS TO #10 AWG TO ACCOMMODATE TERMINATION OF CONDUCTORS AT WIRING DEVICES, LIGHTING FIXTURES, CIRCUIT BREAKER, ETC.
- INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

LOAD IN VOLT AMPERES	LENGTH OF CONDUCTOR WIRE SIZE IN (GAUGE)			
	#12	#10	#8	#6
	1200VA	74	121	183
1560VA	57	93	141	218
1800VA	49	81	122	189
1920VA	46	76	115	178
2340VA	X	62	94	146
2880VA	X	51	76	118
3000VA	X	48	73	114
3900VA	X	X	56	87
4800VA	X	X	46	71

- NOTES
- THIS CHART IS FOR COPPER CONDUCTORS ONLY.
 - THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
 - 2019 CALIFORNIA ENERGY CODE, 130.5(c) ALLOWS A MAXIMUM COMBINED VOLTAGE DROP OF 5%. THIS CHART ASSUMES A MAXIMUM DROP OF 3% FOR FEEDERS. THIS CHART PROVIDES THE MAXIMUM LENGTH OF CONDUCTORS FOR LESS THAN 2% VOLTAGE DROP ON A BRANCH CIRCUIT AT GIVEN VA LOAD.
 - USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
 - FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART



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PLOT DATE: 3/29/2022

SHADE STRUCTURE AT NEW JOSEPH BONNHEIM ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO, CA

Revision

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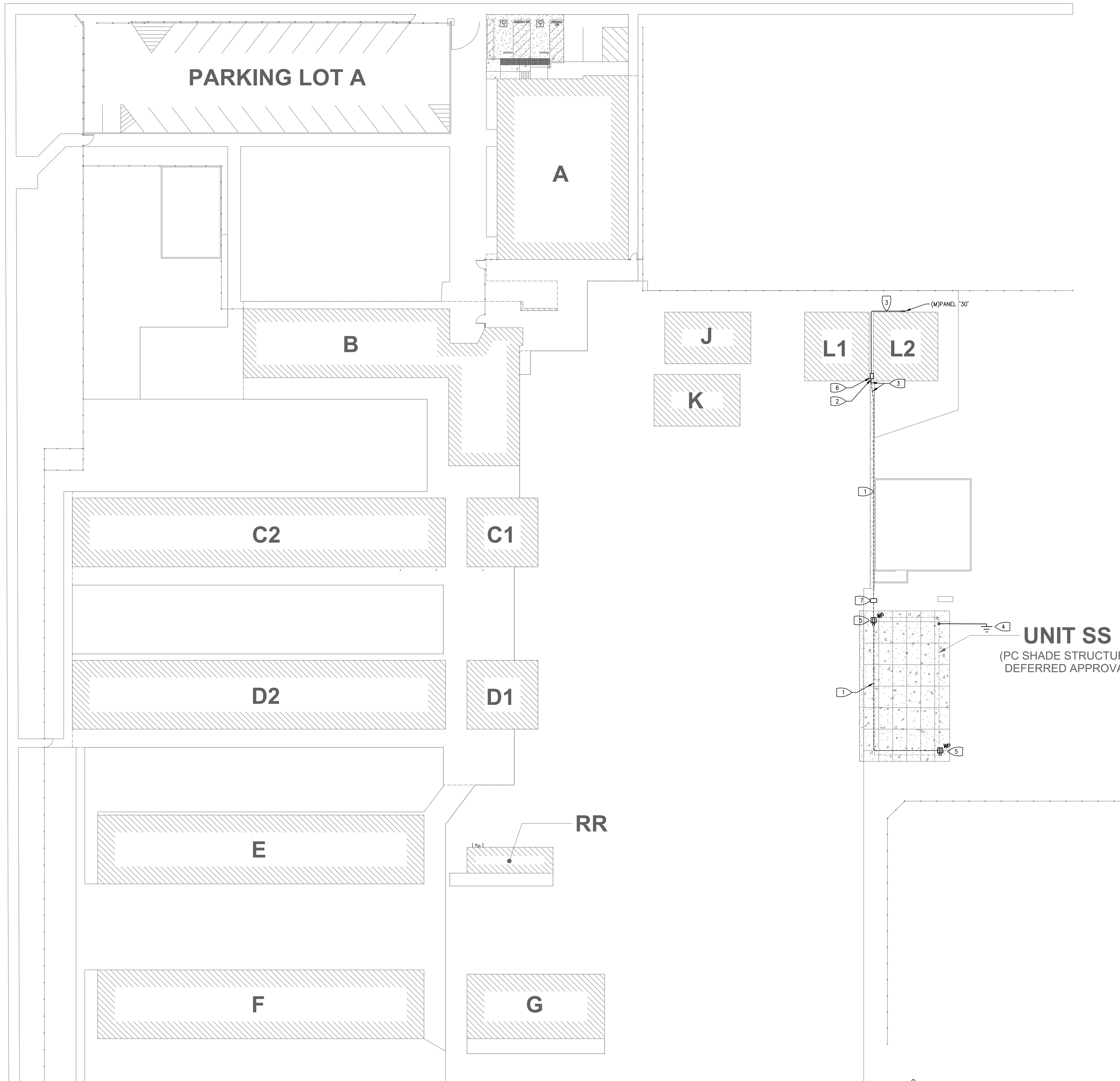
SYMBOLS, NOTES

PROJECT NO. 21-1504.04
DATE: 3/1/22
SHEET

MARIN AVE.

PARKING LOT A

73RD ST.



SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

KEYED NOTES:

- 1 PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. SAW CUT AND PATCH BACK (E) ASPHALT. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE WITH NATIVE SOIL. COMPACT IN SIX(6) LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL **3/E3.1**.
- 2 CONDUIT TO PENETRATE WALL. PATCH BACK TO MATCH (E) BUILDING CONSTRUCTION.
- 3 RUN CONDUIT HIGH AS CLOSE TO EAVE AS POSSIBLE AND PENETRATE WALL. DROP CONDUIT TO BELOW ASPHALT AND TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
- 4 PROVIDE AT MINIMUM TWO(2) GROUND RODS, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL **5/E3.1**.
- 5 LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT(S). MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.
- 6 PROVIDE 8" BY 6" BY 4" NEMA 3R PULL BOX.
- 7 PROVIDE CHRISTY B1324 PULL BOX WITH FIVE(5) FT OF SHADE STRUCTURE. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. SEE DETAIL **2/E3.1**.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-119976 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 04/01/2022

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REGISTERED PROFESSIONAL ELECTRICAL ENGINEER
 17247
 Exp. 6/30/22
 STATE OF CALIFORNIA
 PLOT DATE: 3/29/2022

SHADE STRUCTURE AT NEW JOSEPH
 BONNHEIM ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

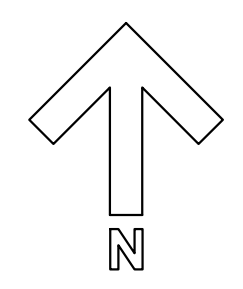
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**SITE PLAN -
 ELECTRICAL**

PROJECT NO. 21-1504.04
 DATE: 3/1/22
 SHEET

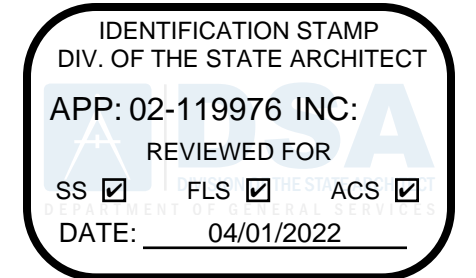
E1.1

1 SITE PLAN - ELECTRICAL
 SCALE: 1"=20'



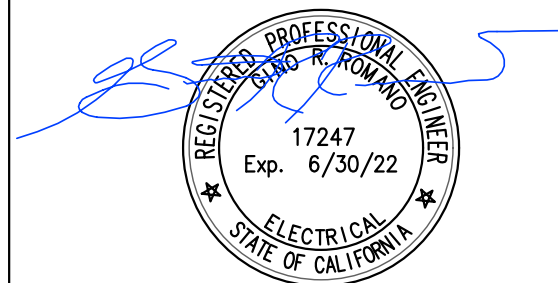
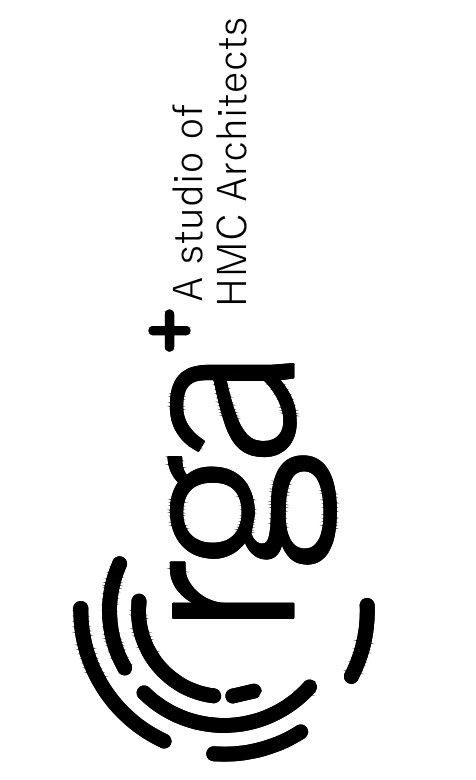
SHEET NOTES:

- ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.



KEYED NOTES:

- MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.



PLOT DATE: 3/29/2022

SHADE STRUCTURE AT NEW JOSEPH BONNHHEIM ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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ONE LINE DIAGRAM

PROJECT NO. 21-1504.04
DATE: 3/1/22
SHEET

E2.1

MODIFIED

PANEL:	MANF: WESTINGHOUSE	MAIN:	125/2	SERVICE:	MOUNTING:	ENCLOSURE:	10K AIC
30	TYPE: N12-1224RT	BUS:	125 AMP	120/208 VOLT	SURFACE	WIDTH: 15"	100% NEUT.
	FEEDER RATING:	AMP	1 Ø, 3W	DEPTH: 4.5"			

AØ	BØ	DIRECTORY	BRKR	CKT	CKT BRKR	DIRECTORY	AØ	BØ
		MAIN BREAKER	125/2	1	2	DO NOT REMOVE THIS K.O.		
		N.L. [LIGHTS / PLUGS]	20/1	5	8	60/2 AC UNIT	4160	4160
		N.L. [LIGHTS / PLUGS]	20/1	7	8			
		N.L. [LIGHTS / PLUGS]	20/1	9	10	PFB SPACE		
		N.L. [LIGHTS / PLUGS]	20/1	11	12	PFB SPACE		
360		RECEPTS - SHADE STRUCT. [6]	20/1	13	14	PFB SPACE		
		SPACE	PFB	15	16	PFB SPACE		
		NEW LOAD	DEMAND READINGS		PEAK DEMAND @ 125% * (N) LOAD		TOTAL DEMAND	
		TOTAL PANEL VA	AMPS	AMPS @125%	AMPS	VA	LOAD	
AØ =		4520 VA	37.7	2.1	2.8	40.3 A	4835 VA	940 VA
BØ =		4160 VA	34.7	2.3	2.9	37.5 A	4505 VA	40.3 AMPS

NOTES:

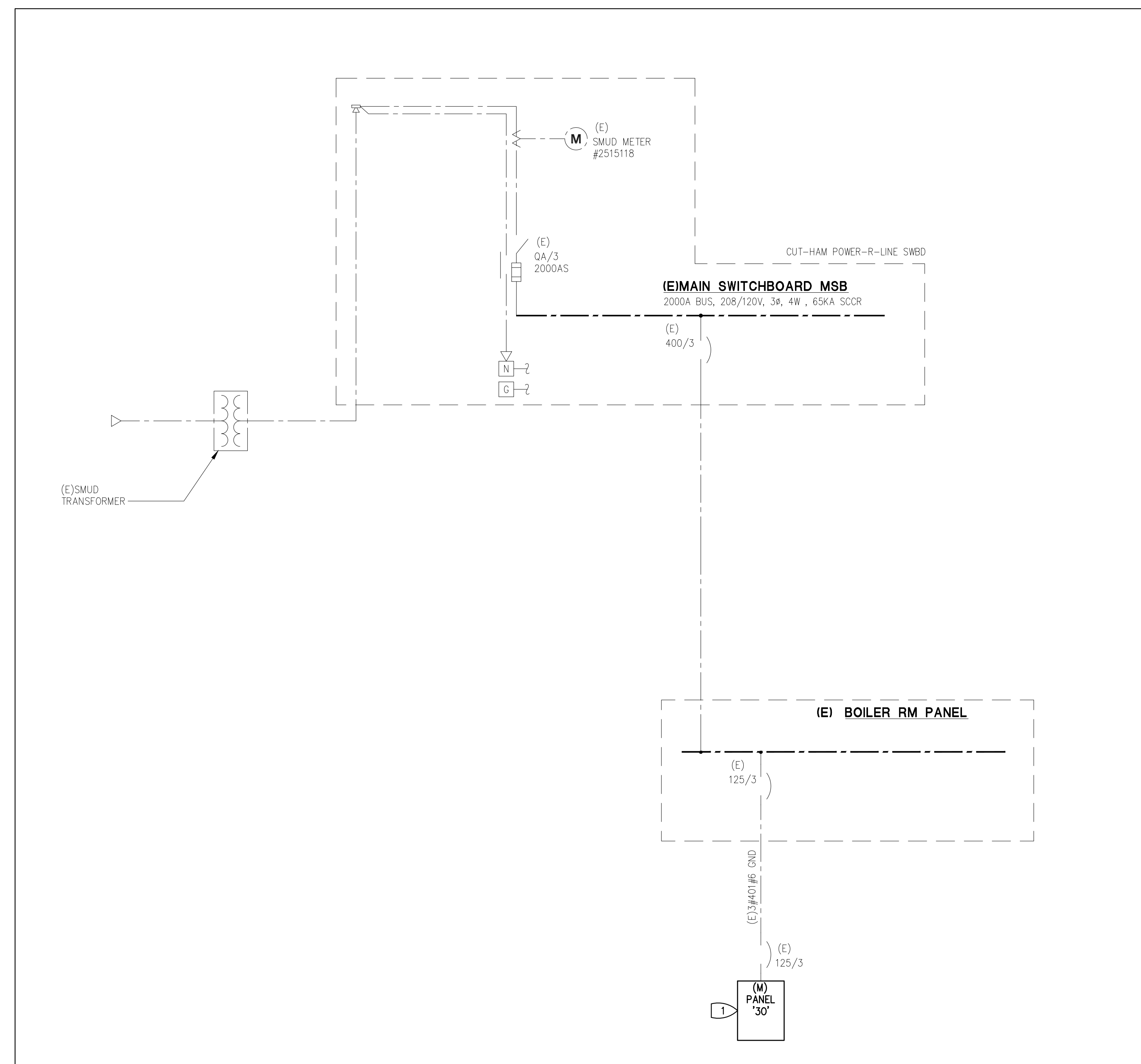
- FEEDER CONDUCTORS CONSIST OF 3Ø4 + 1Ø6 GND CU
- MAIN BREAKER IS EATON TYPE BR
- BRANCH BREAKERS ARE EATON TYPE BR
- PROVIDE TYPE-WRITTEN PANEL DIRECTORY
- ALL NEW BREAKERS TO MATCH EXISTING TYPES.
- PROVIDE NEW 2Ø AMP, SINGLE-POLE BREAKER.

Voltage Drop Calculations Copper

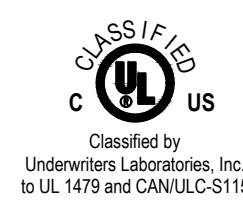
Job Name: New Joseph Bonnhheim Elementary School - Shade Structure Job #: 22.010
Date: 2/24/2022

VOLTAGE: 120 PHASE: 1 POWER FACTOR: 80% CONDUIT: Steel

FEEDER NUMBER	AMPS AT LOAD	KVA TOTAL	VOLTS AT LOAD	DISTANCE FEET	DISTANCE TOTAL	WIRES/ PHASE	LOAD/ WIRE	WIRE SIZE	WIRE FACTOR	VOLTS DROP	PERCENT VOLT DROP
RECEPT-1	3	0.4	118.83	196	196	1	3.00	10	1995	1.17	0.98%
RECEPT-2	2	0.2	118.61	74	270	1	1.50	10	1995	1.39	1.16%

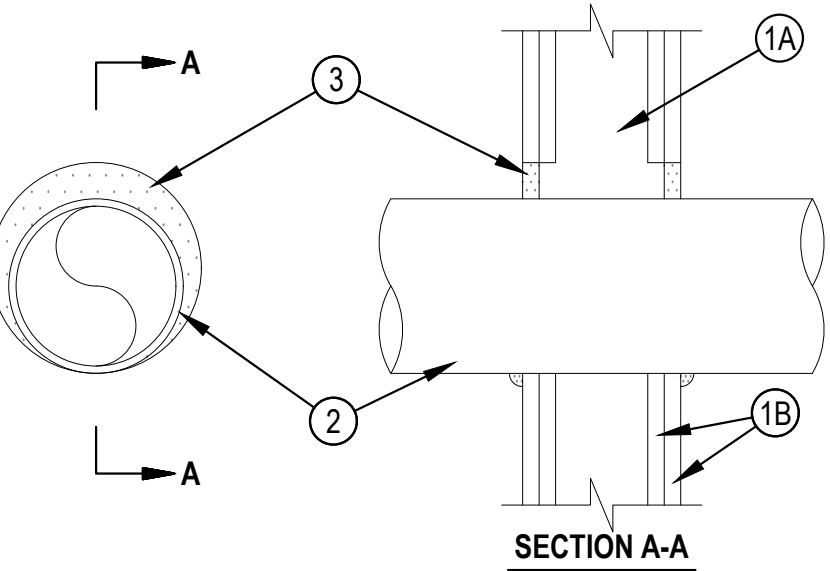


1 ONE LINE DIAGRAM
SCALE: NONE



System No. W-L-1054

Table with columns for ANSIIUL1479 (ASTM E814) and CAN/ULC S115, listing fire ratings (F, T, L) and flow test results (CFM/sq ft).



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
B. Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe — Nom 3/4 in. (19.1 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 3/4 in. (19.1 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface 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.



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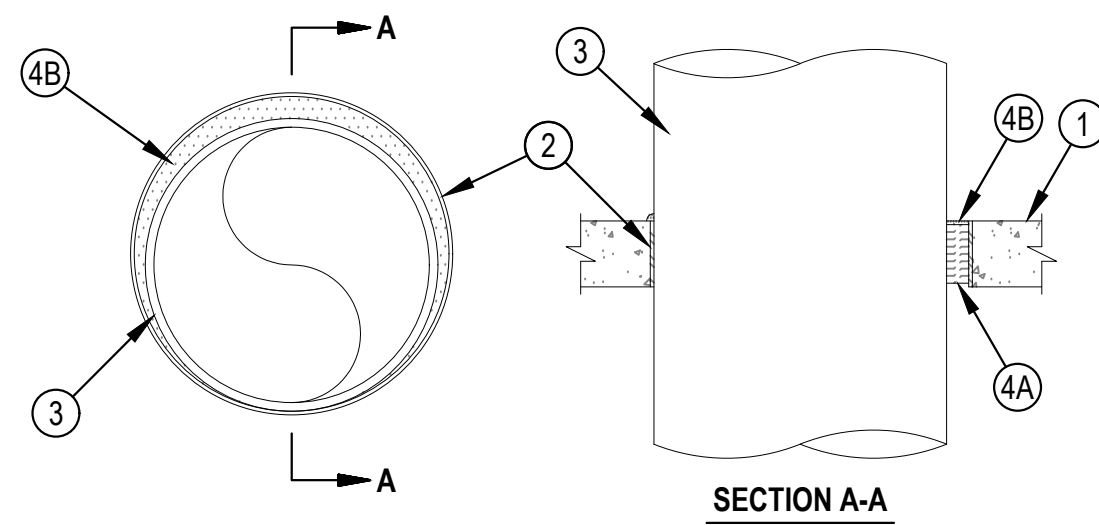
7 WALL PENETRATION FIRESTOP

SCALE: NONE



System No. C-AJ-1226

Table with columns for ANSIIUL1479 (ASTM E814) and CAN/ULC S115, listing fire ratings (F, T, L) and flow test results (CFM/sq ft).



1. 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).

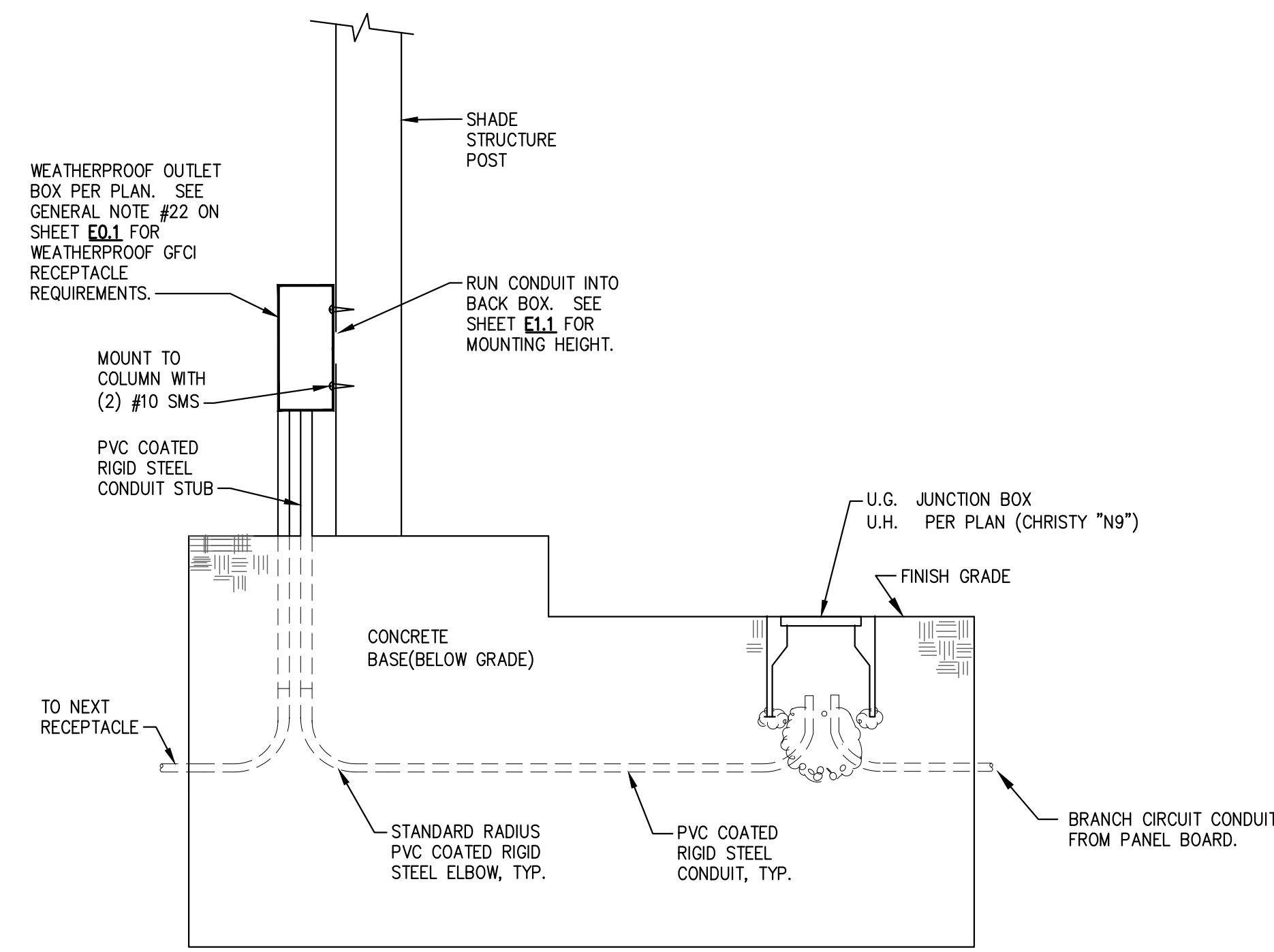
- 2. Metallic Sleeve — (Optional) Nom 3/4 in. (19.1 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.
2A. Sheet Metal Sleeve — (Optional) 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.
2B. 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.
3. 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. (point contact) to max 1-7/8 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:
A. Steel Pipe — Nom 3/4 in. (19.1 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 3/4 in. (19.1 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
A. 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.
B. 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.



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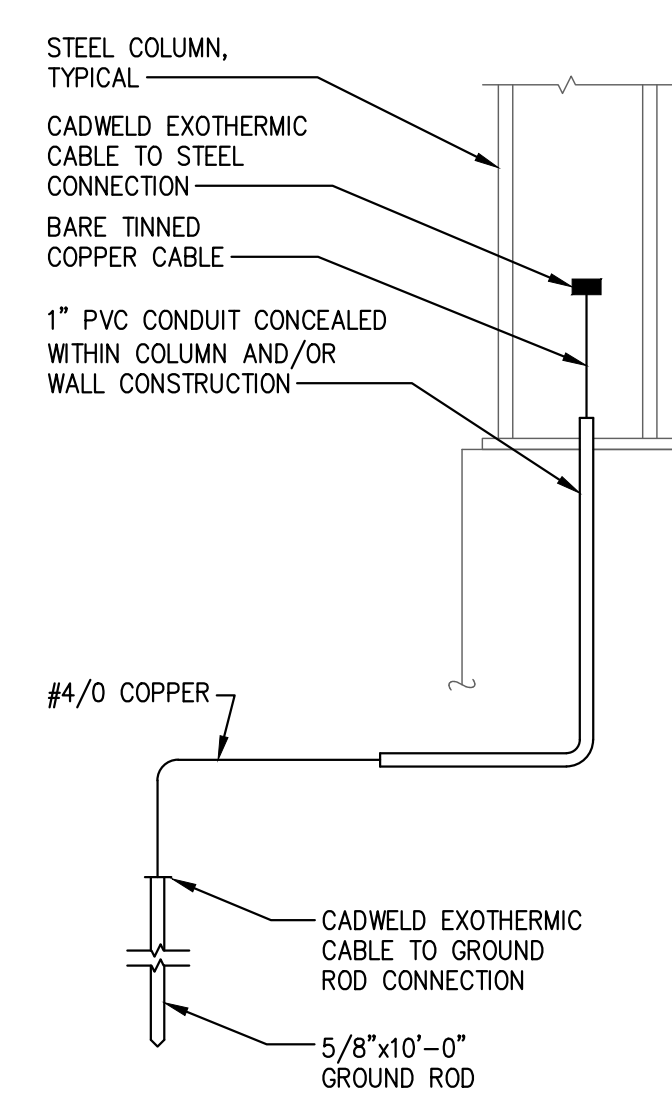
8 WALL PENETRATION FIRESTOP

SCALE: NONE



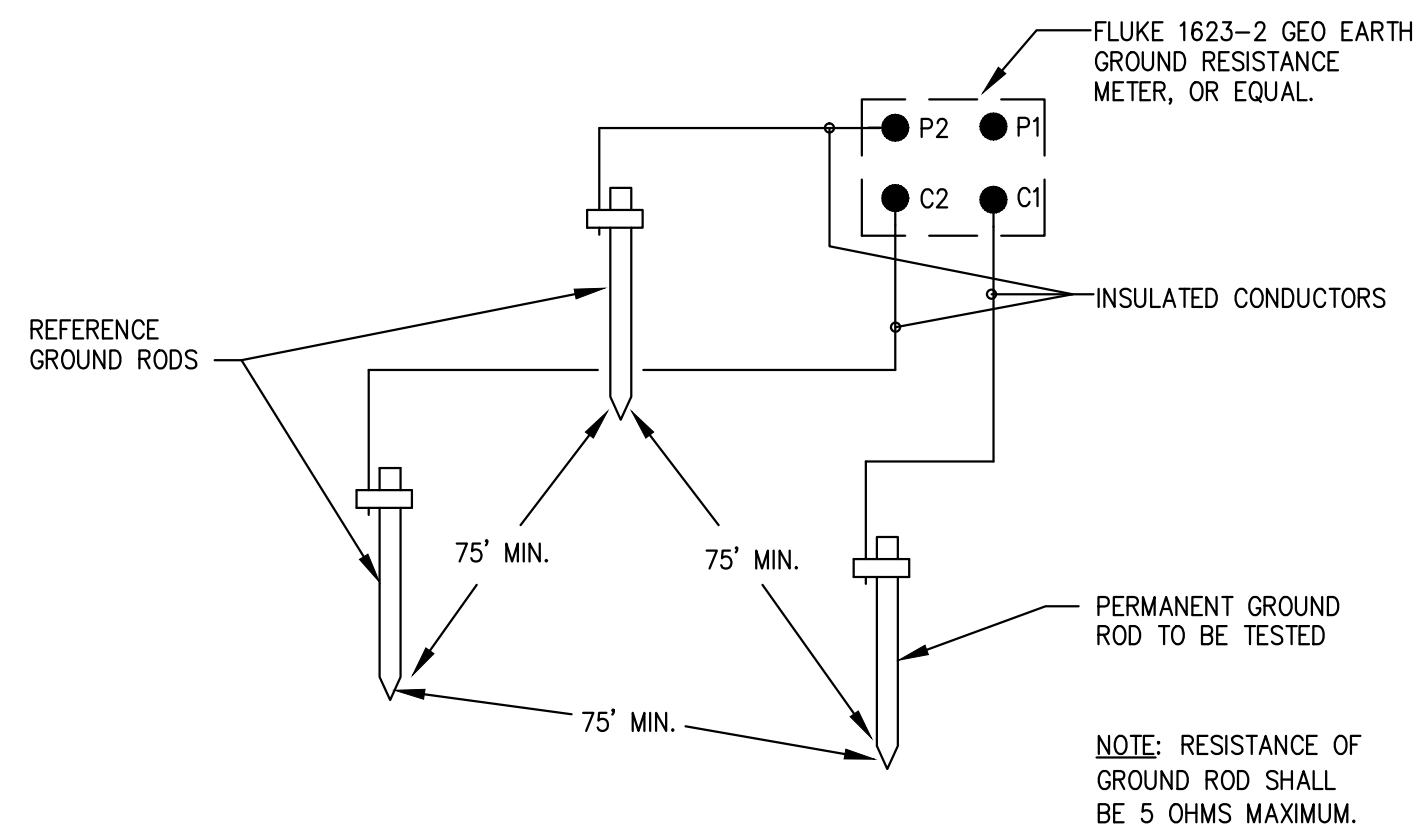
4 CONDUIT STUB IN POST DETAIL

SCALE: NONE



5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL

SCALE: NONE



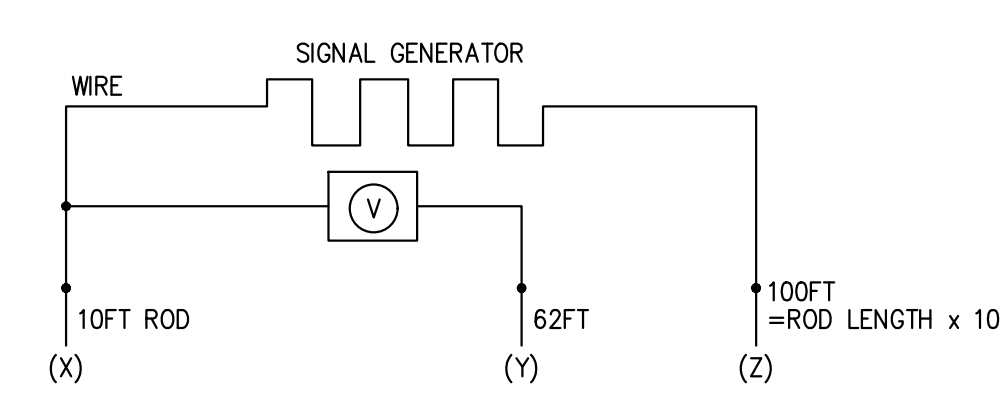
FALL OF POTENTIAL TEST METHOD

NOTES:

- 1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
4. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC LT. EQUIPMENT: 3 OHMS.
5. MAN-HOLE GROUNDS: 10 OHMS.

FALL OF POTENTIAL 3-POINT TEST:

GROUND ROD, I.E. 10 TO 10 RING, 14' DIAGONAL LENGTH ISOLATION FROM UTILITY NEUTRAL PROBE Z IS DRIVEN A DISTANCE OF 10 TIMES DIAGONAL LENGTH OF THE GROUNDING ROD SYSTEM (ROD X). A SECOND PROBE (Y) IS PLACED IN LINE AT A DISTANCE FROM ROD X EQUAL TO THE DIAGONAL LENGTH OF THE GROUNDING SYSTEM.



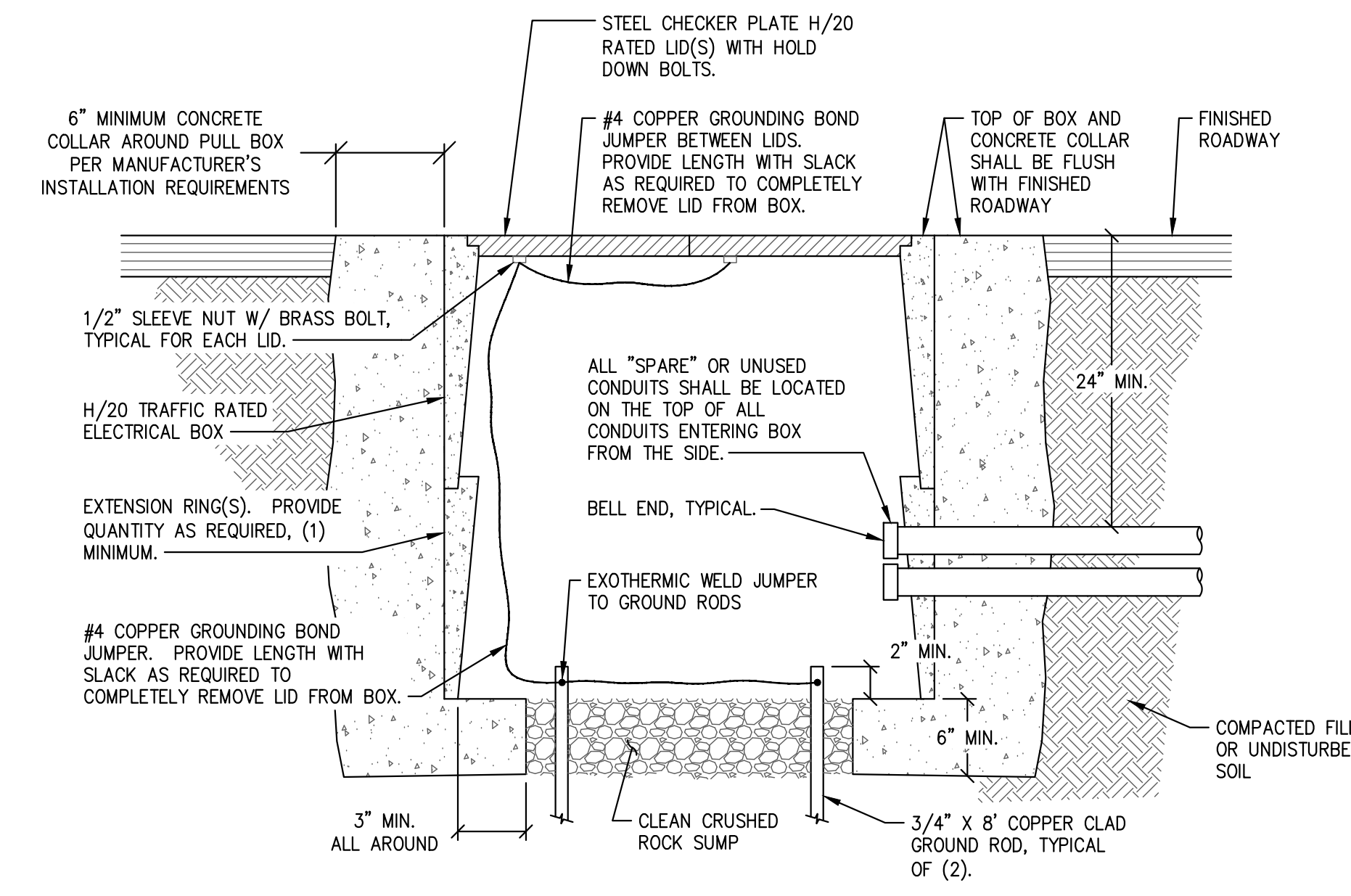
AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED R=V/I. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, ... 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE MEASUREMENTS.

6 METHOD OF TESTING GROUND RODS DETAIL

SCALE: NONE

1 DETAIL REMOVED

SCALE: NONE



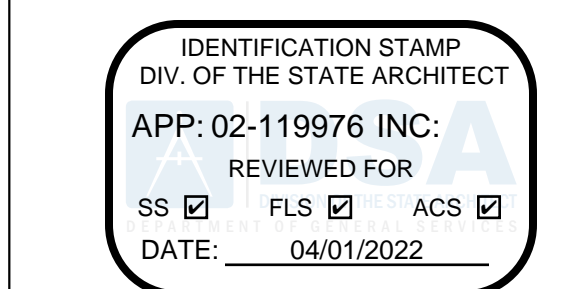
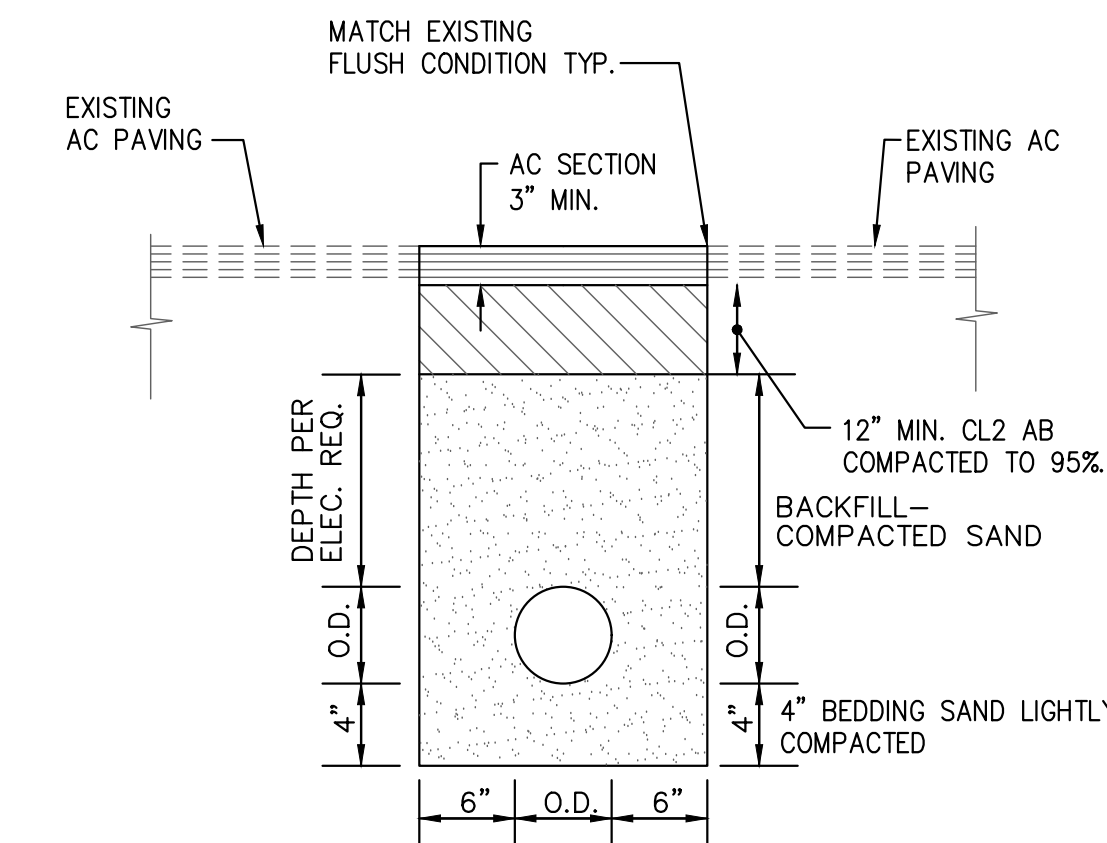
2 TYPICAL H/20 TRAFFIC RATED PULL BOX

SCALE: NONE

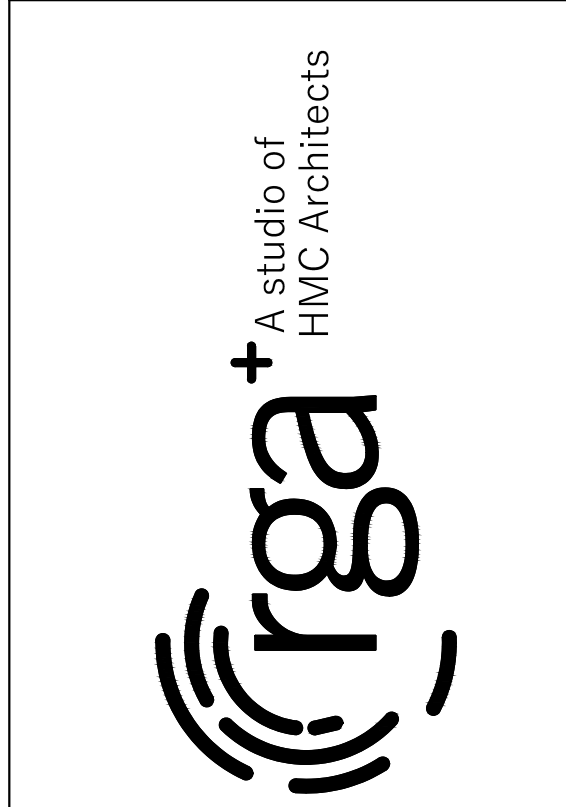
- NOTES:
1. PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
2. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

3 TYPICAL TRENCH DETAIL

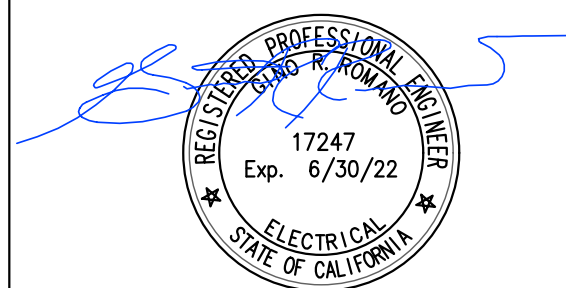
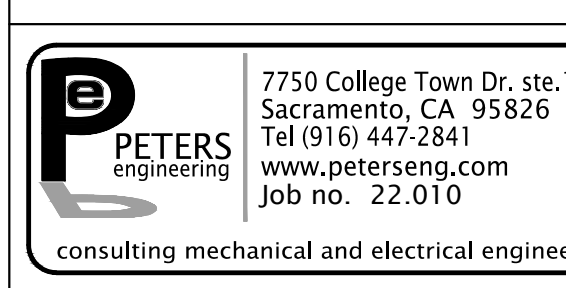
SCALE: NONE



APP: 02-119976 INC. REVIEWED FOR DATE: 04/01/2022



7750 College Town Dr. ste.101 Sacramento, CA 95826 Tel (916) 447-1841 www.peterseng.com Job no. 22.010



PLOT DATE: 3/29/2022

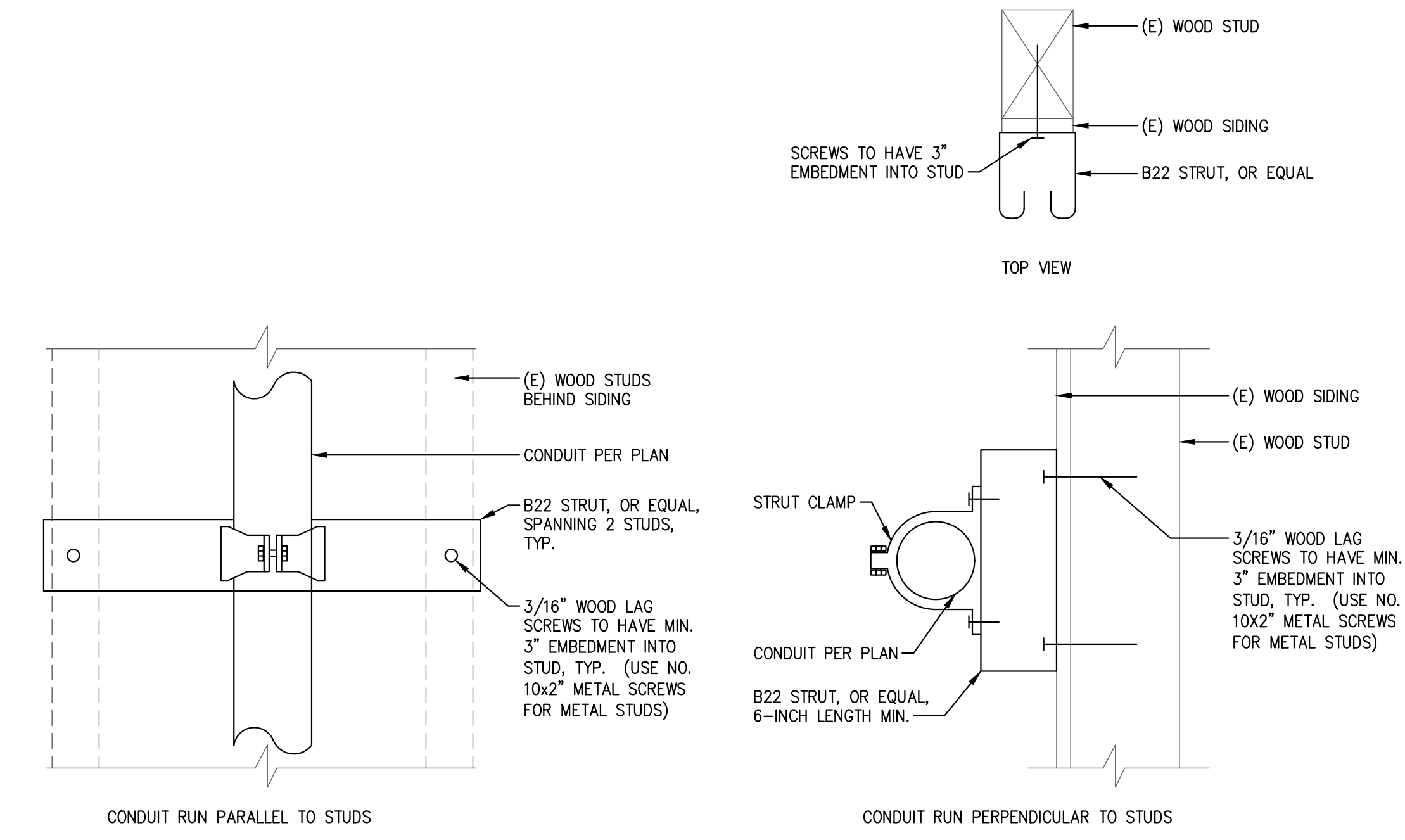
SHADE STRUCTURE AT NEW JOSEPH BONNHHEIM ELEMENTARY SCHOOL SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Revision

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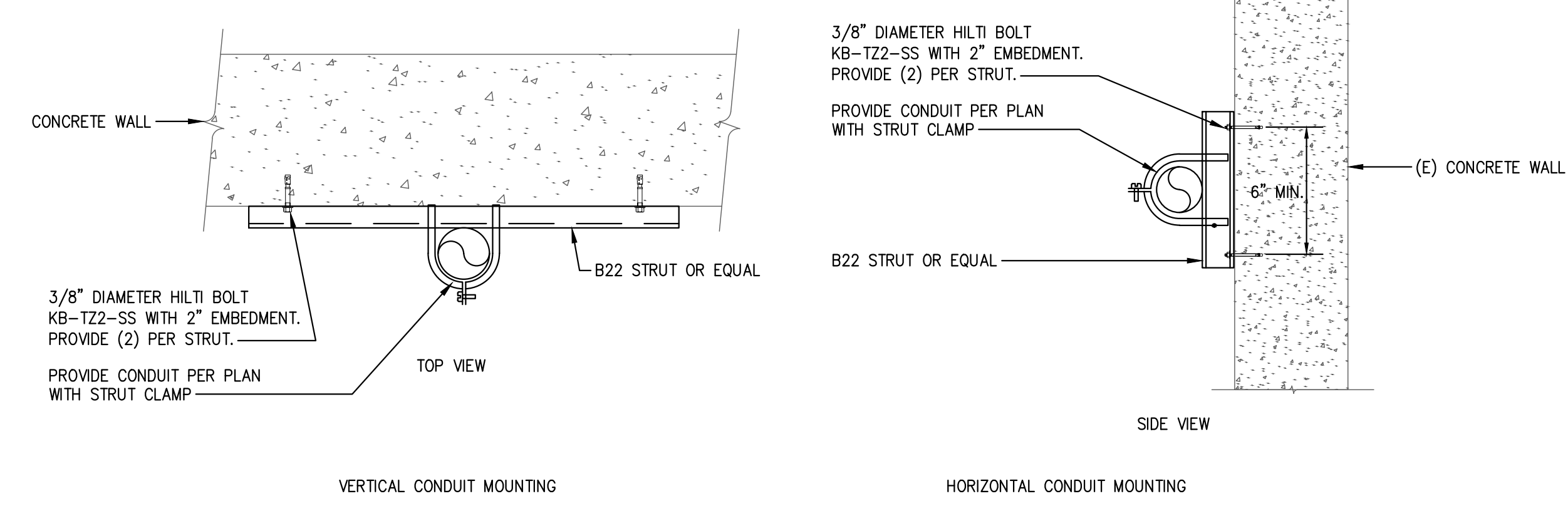
DETAILS

PROJECT NO. 21-1504.04 DATE: 3/1/22 SHEET E3.1



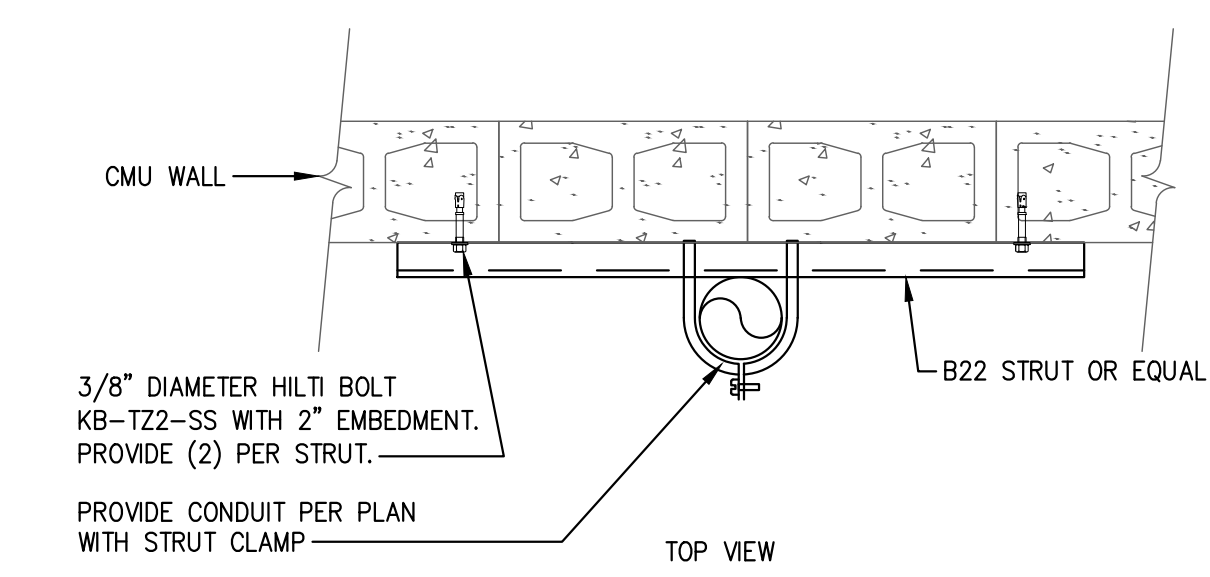
- NOTES:
 1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

1 CONDUIT MOUNTING DETAIL - STUD WALLS
 SCALE: NONE



- NOTES:
 1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

2 CONDUIT MOUNTING DETAIL - CONCRETE WALLS
 SCALE: NONE



- NOTES:
 1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

3 CONDUIT MOUNTING DETAIL - CMU WALLS
 SCALE: NONE

Revision

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DETAILS

DESIGN CRITERIA	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF
COLLATERAL DEAD LOAD	M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P_g	20 PSF
RISK CATEGORY	I
ROOF SNOW LOAD SLOPED, P_s	20 PSF
SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE BE LOCATED AT LEAST 20 FEET FROM ADJACENT STRUCTURE	
SNOW LOAD SLOPE FACTOR, C_s	1.0
SNOW EXPOSURE FACTOR, C_e	1.0
SNOW LOAD IMPORTANCE FACTOR, I_s	1.0
THERMAL FACTOR, C_t	1.2
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V_{ult}	100 MPH
RISK CATEGORY	I
EXPOSURE CATEGORY	C
FACTORS: K_d, K_e, K_z	0.85, 1.0, 0.85
$G_e = 0.00256 K_d K_e K_z V^2$ FOR ALL EAVE HEIGHTS (8', 10' & 12')	18.50 PSF
C_{nw} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.09)
C_{ne} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C_{ne} PER ASCE FIGURE 27-4-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED	CASE A (-0.6 / -0.9) CASE B (-0.5 / -0.5)
COMPONENTS & CLADDING - C_{di} (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	
	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0)
	ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)
	ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUivalent LATERAL FORCE
SEISMIC IMPORTANCE FACTOR, I_e	1.0
SEISMIC SITE CLASS	D
MCE_E SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_s	0.6
MCE_E SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_1	0.90
SHORT PERIOD SITE COEFFICIENT, F_a	1.20
LONG PERIOD COEFFICIENT, F_v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS}	2.08
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS} - USED TO DETERMINE C_s (WITH CAP PER ASCE-7 12.8.1.3)	2.08 * 0.70 = 1.456
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-4 PERIODS, S_{D1}	1.02
SEISMIC DESIGN CATEGORY	E
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Q	1.25
REduNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C_s (20' WIDE, 30' WIDE, 40' WIDE)	1.16
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF, 13.41 PSF, 14.65 PSF
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

GENERAL:

- GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
- WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C., TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.
- OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
- 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 STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
- ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
- THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
- SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERCTED FRAME PRIOR TO ROOF INSTALLATION.
- SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WIDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS.
- LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
- VEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
- PIPE SECTIONS SHALL CONFORM TO ASTM A53, $F_y = 35$ KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), $F_y = 46$ KSI (MIN).
- IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED ABOVE WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, $F_y = 36$ KSI.
- ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, $F_y = 50$ KSI.
- ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, $F_y = 50$ KSI.
- STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- ALL ROOF DECK SHALL HAVE KYNAR 500 METAL COATING.
- ALL ROOF DECK SHALL CONFORM TO ASTM A-324, $F_y = 50$ KSI.

WELDING:

- ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
- ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES, FLUX CORE ARC WELD SHALL CONFORM TO CHARRY NOTCH TOUGHNESS RATING OF 20 ft-lb σ (0') F.
- ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE WELDER MATERIAL ID AND WELDING.
- WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO ASTM A-563.
- HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
- BEFORE ERCTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
- HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERCTING OF THE FRAME. ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.

- APRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
- TURN-OFF-NUT PRETENSIONING
 - CALIBRATED WRENCH PRETENSIONING
 - DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.
- PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONEROR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
- FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET.
- PER CBC SECTION 1803A.6, GEHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONEROR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- GEHAZARD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
- SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IS USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
- LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 & HAS BEEN DESIGNED FOR P-DELTA EFFECTS

CONCRETE:

- MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)
- CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
- AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05%. MAX AGGREGATE SIZE = 1".
- CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
- CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- CONCRETE DURABILITY SHALL BE PER CBC 190A.1 & ACI 318-14 CHAPTER 19.
- CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-14 SECTION 26.12.

STRENGTH P_c (28 DAYS)	W/C RATIO (NON-AIR ENTRAIN)	W/C RATIO (AIR ENTRAIN)	SUMP (in')	UNIT WEIGHT (NORMAL WEIGHT)
4500 PSI	0.44	0.35	3'	150 PCF

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME: _____ SCHOOL DISTRICT: _____

STEP 1	FRAME DIMENSIONS	
	SUGGESTED	OTHER
	FRAME WIDTH [] 20' <input checked="" type="checkbox"/> 30' [] 40'	[] (40' MAX)
	FRAME LENGTH [] 44' <input checked="" type="checkbox"/> 64' [] 84'	[] (NO MAX)

STEP 2	ROOF PANEL	
	ROOF PANEL TYPE	DESIGN OPTIONS
	<input checked="" type="checkbox"/> M [] G [] S	

STEP 3	PROJECT SITE - S_s ACCELERATION (g)	
	SELECTION	VALUE
	<input checked="" type="checkbox"/> 0.642	

STEP 4	S_s REGION		MAX DEAD LOAD		
	DESCRIPTION	VALUE			
		X		0 < S_s <= 2.14	5 PSF
				2.14 < S_s <= 2.50	5 PSF
		2.50 < S_s <= 2.75	5 PSF		
		2.75 < S_s <= 3.00	4 PSF		
		S_s > 3.73 MAX	3 PSF		

STEP 5	TOTAL ROOF DEAD LOAD		EXAMPLES
	DESCRIPTION	VALUE	
	ROOF DECK	1.1 PSF	
COLLATERAL	0 PSF	LIGHTING, ETC	
TOTAL	1.1 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)	

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
- ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
- J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS TERRORIZATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

REINFORCING STEEL:

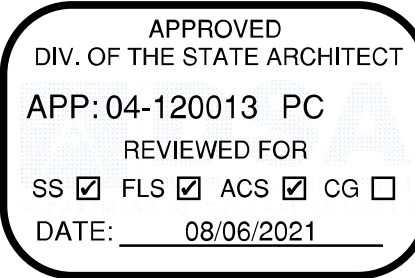
- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
GR 60: (#4 BARS AND LARGER)
GR 40: (#3 BARS)
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
A. CAST AGAINST EARTH3"
B. CAST AGAINST FORM BELOW GRADE2"
C. FORMED SLABS (#1 BAR & SMALLER).....3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- REINFORCING SHALL BE LAP SPICED PER ACI 318-14 SECTION 25.5.
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- WELDING OF REINFORCING IS NOT ALLOWED.
- REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:
- THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
 - THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN ANTIMONY EIGHT STAGE ELECTRO DEPOSITION PRE-TREATMENT PROCESS.
 - IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY IMMERSED IN A LIQUID EPOXY PRIMER(E-COAT) AND COATED TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
 - THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATING SURFACE.
 - THE COLOR COAT SHALL THEN HAVE A CLEAR TGIC COATING APPLIED TO SEAL IN THE COLOR COAT AND RESIST ULTRAVIOLET LIGHT, TO HELP PREVENT FADING.
 - THE FINISH THICKNESS OF THESE THREE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
 - ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE 'AISC CODE OF STANDARD PRACTICE' AND THE 'AISC SPECIFICATION SECTION M3(UNLESS NOTED OTHERWISE).

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
C/P	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SS	SQUARE
IN	INCHES	SQ	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W'	WITH



STRUCTURAL SEPARATION ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7

DEFLECTIONS ARE FOR (1) STRUCTURE SOIL CLASS PER TABLE 1806A.2

MAXIMUM DRIFT Δ_{max}	SIDE COLUMNS	SOIL CLASS 5	SOIL CLASS 4	SOIL CLASS 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.40	2.55	2.65	
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.25	2.35	2.45	
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.20	2.25	2.30	
MINIMUM SEPARATION ($S_w = C_s \Delta_{max}$) $C_s = 1.25$				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	3.00	3.19	3.31	
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.81	2.94	3.06	
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.75	2.81	2.75	
MAXIMUM DRIFT Δ_{max}	CORNER COLUMNS	SOIL CLASS 5	SOIL CLASS 4	SOIL CLASS 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.20	2.30	2.40	
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.30	2.45	2.50	
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.40	2.55	2.65	
MINIMUM SEPARATION ($S_w = C_s \Delta_{max}$) $C_s = 1.25$				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.75	2.88	3.00	
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.68	3.06	3.13	
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	3.00	3.19	3.31	
MAXIMUM DRIFT Δ_{max}	END COLUMNS	SOIL CLASS 5	SOIL CLASS 4	SOIL CLASS 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	1.80	1.70	1.75	
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.00	2.45	2.25	
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.00	2.30	2.80	
MINIMUM SEPARATION ($S_w = C_s \Delta_{max}$) $C_s = 1.25$				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.50	2.13	2.19	
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	2.50	3.06	2.81	
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	3.13	2.88	3.50	

ARCHITECTURAL REQUIREMENTS		
DESCRIPTION	DESIGN VAULES	
TYPE OF CONSTRUCTION	I-B	
OCCUPANCY CLASSIFICATION	A-3	
NUMBER OF STORES	1	
FIRE SPRINKLER SYSTEM	NOT BY CON/WEIGHT NOT INCLUDED IN DESIGN	

RELATED BUILDING CODES AND STANDARDS

- TITLE 24 CODES:
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2.(PART 2, TITLE 24, CCR)
 - 2019 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
 - 2019 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
 - 2019 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
 - 2019 CALIFORNIA FIRE CODE (CFC)(PART 9, TITLE 24, CCR)
 -

2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector.

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS
1. TYPE
2. PERFORMED BY
CE - Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

7. CAST-IN-PLACE CONCRETE
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify use of required design mix.
b. Identify, sample, and test reinforcing steel.

23. ANCHOR BOLTS AND ANCHOR RODS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Anchor Bolts and Anchor Rods
b. Threaded rod not used for foundation anchorage.

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by CE

1. GENERAL: Table 1705A.6
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify that:
• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.

2. SOIL COMPACTION AND FILL: Table 1705A.6
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Perform classification and testing of fill materials.
b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.

17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE
Material Verification and Testing:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify identification of all materials and fill certificates indicate material properties that comply with requirements.

18. HIGH-STRENGTH BOLTS: RCSC 2
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify identification markings and manufacturer's certificate of compliance conform to ASTM standards specified in the DSA-approved documents.

Name of Architect or Engineer in general responsible charge:
Name of Structural Engineer (When structural design has been delegated):
Signature of Architect or Structural Engineer:
Date:
Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

c. Compaction testing.
Test
LOR
* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): Table 1705A.8
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Inspect drilling operations and maintain complete and accurate records for each pier.
b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.
c. Confirm adequate end strat bearing capacity.
d. Concrete piers.

b. Test high-strength bolts, nuts and washers.
Test
LOR
Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
Inspection of High-Strength Bolt Installation:
c. Bearing-type ("snug tight") connections.
d. Pretensioned and slip-critical connections.

19. WELDI
1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3 (See Appendix for exemptions.)

Verification of Materials, Equipment, Welders, etc.:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.
b. Verify weld filler material manufacturer's certificate of compliance.
c. Verify WPS, welder qualifications and equipment.

- 1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

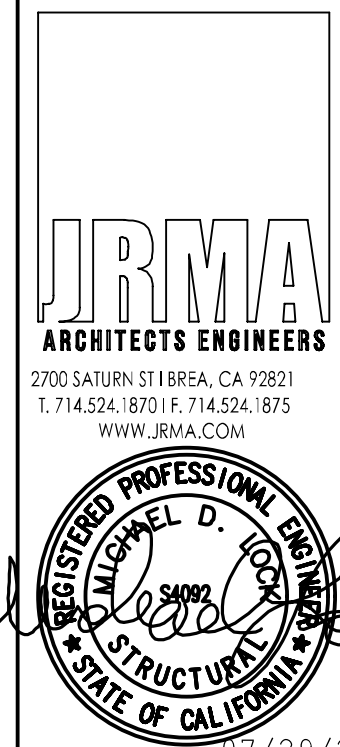
5. RETAINING WALLS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Placement, compaction and inspection of backfill.
b. Placement of soil reinforcement and/or drainage devices.
c. Segmental retaining walls, inspect placement of units, dowels, connectors, etc.
d. Concrete retaining walls.
e. Masonry retaining walls.

6. OTHER SOIL
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Soil Improvements
b. Inspection of Soil Improvements
c.

19.1 SHOP WELDING:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.
b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.
c. Inspect welding of stairs and railing systems.
d. Verification of reinforcing steel weldability other than ASTM A706.
e. Inspect welding of reinforcing steel.

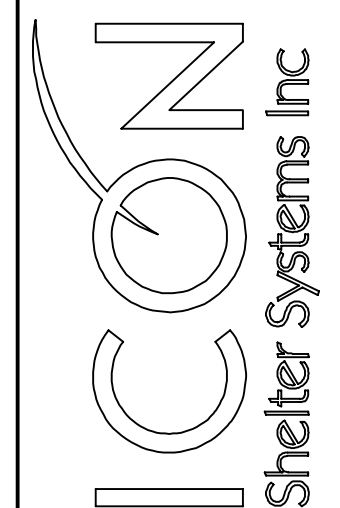
23. ANCHOR BOLTS AND ANCHOR RODS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Anchor Bolts and Anchor Rods
b. Threaded rod not used for foundation anchorage.

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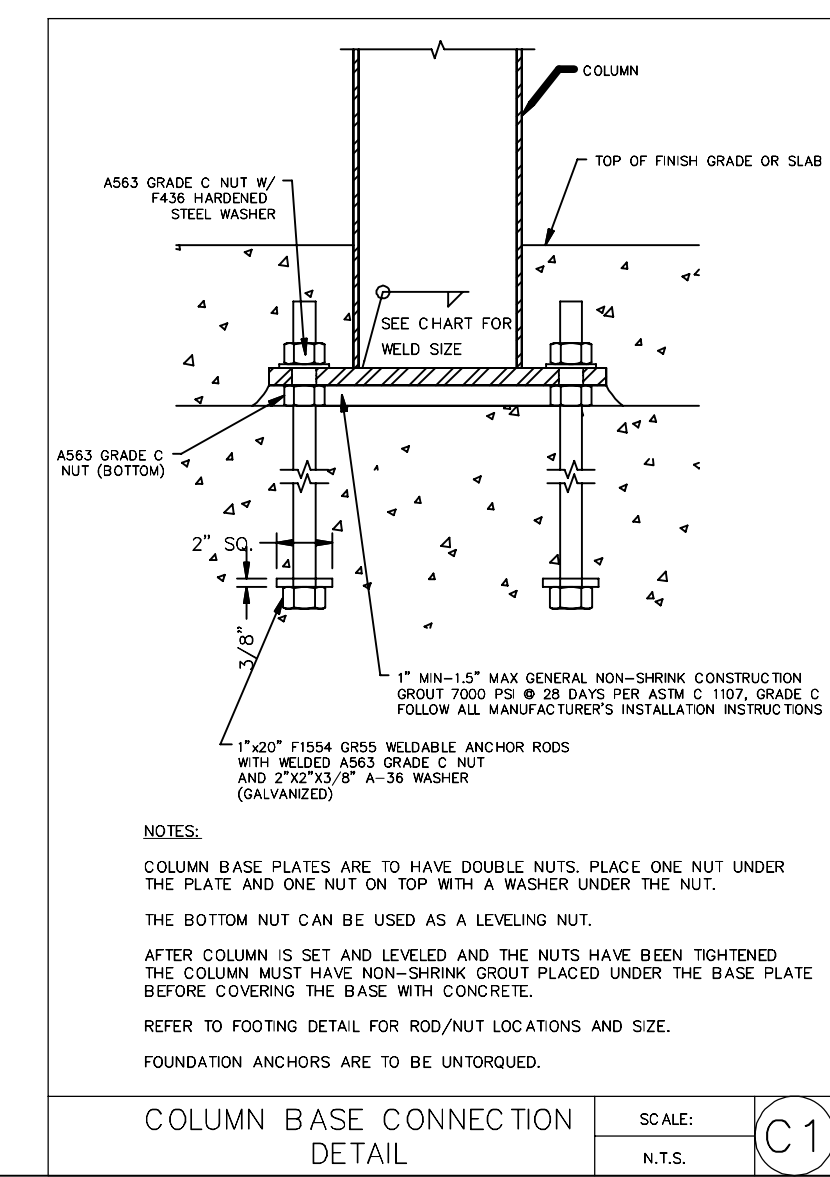
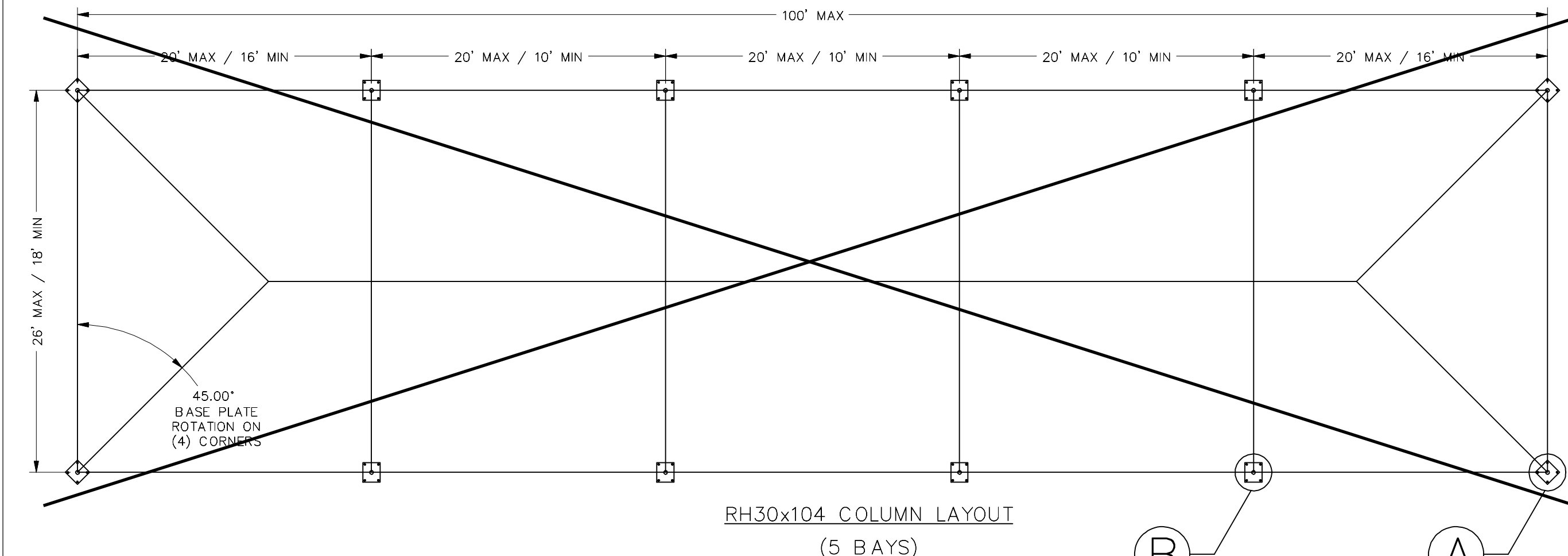
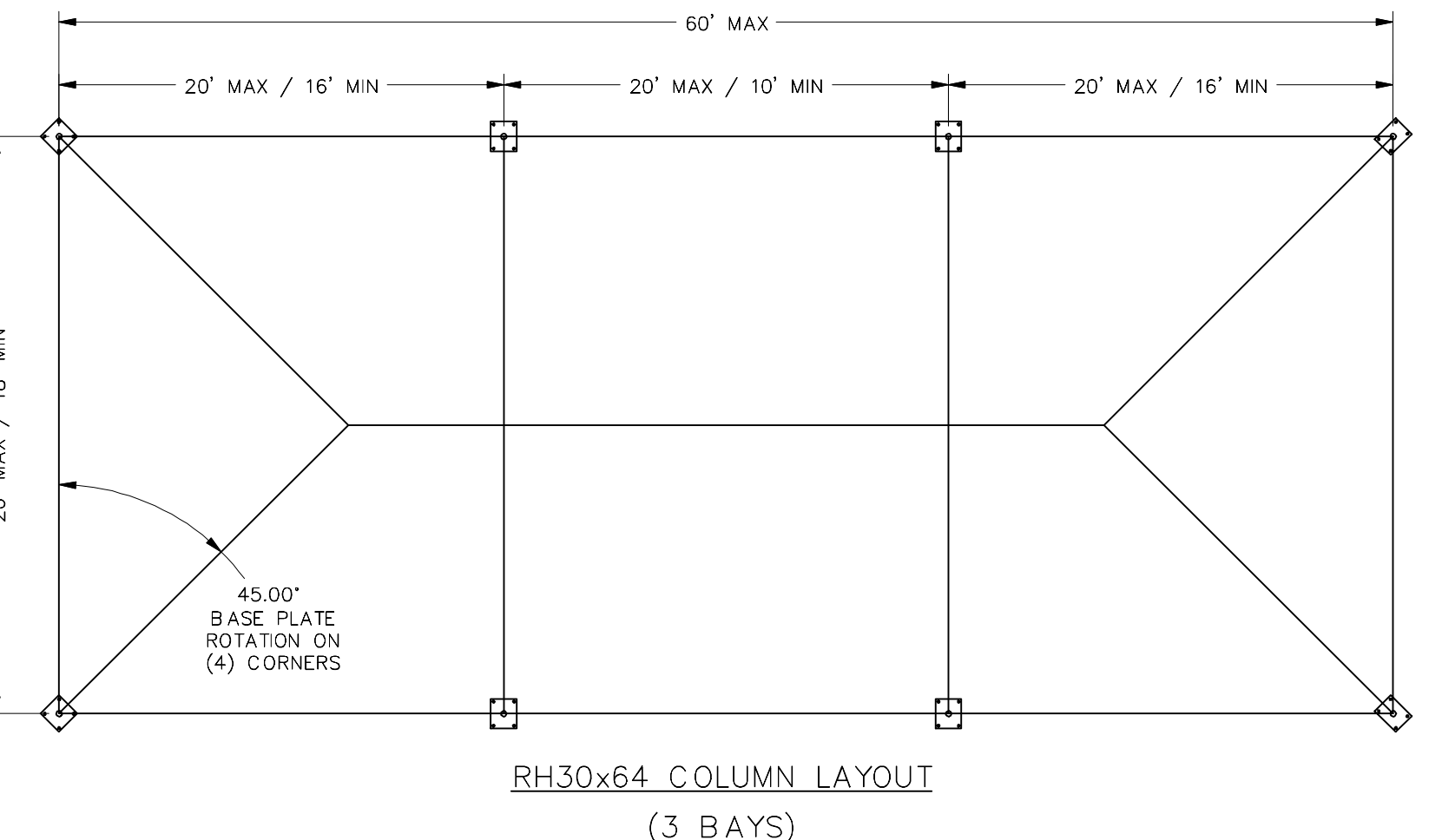
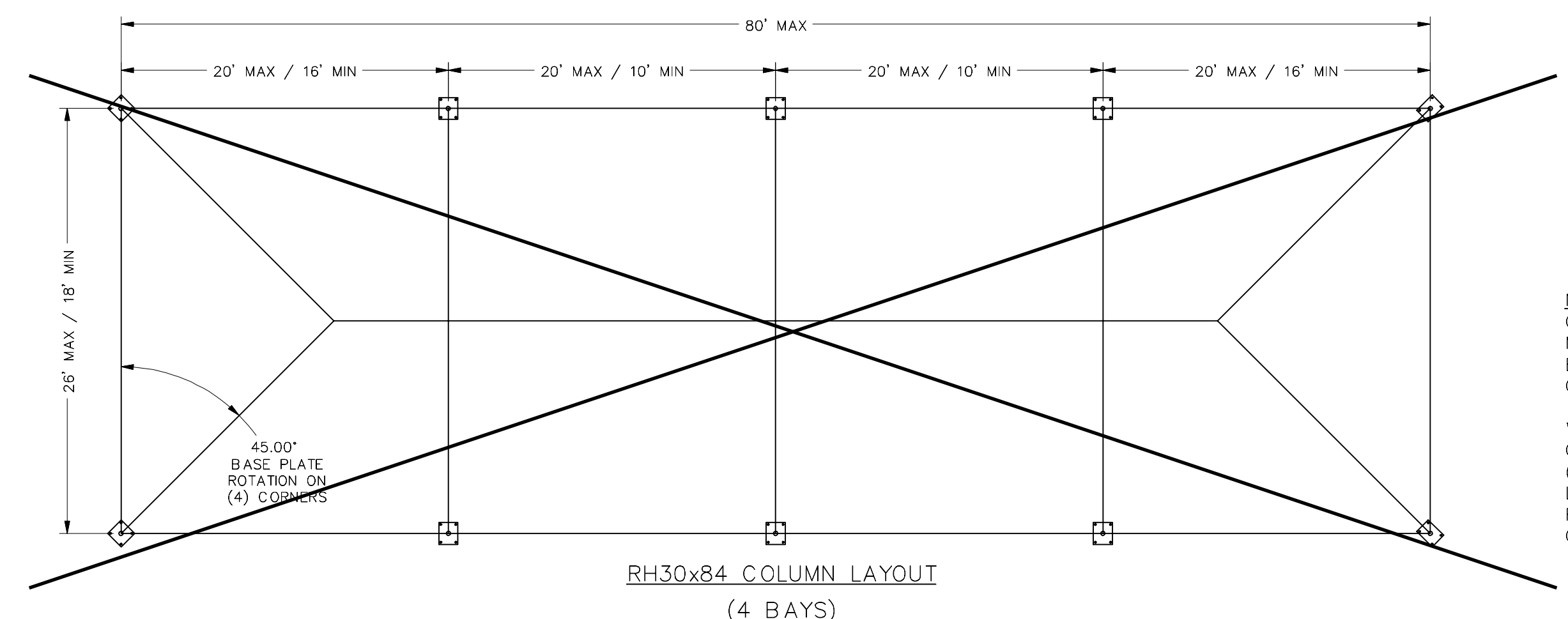
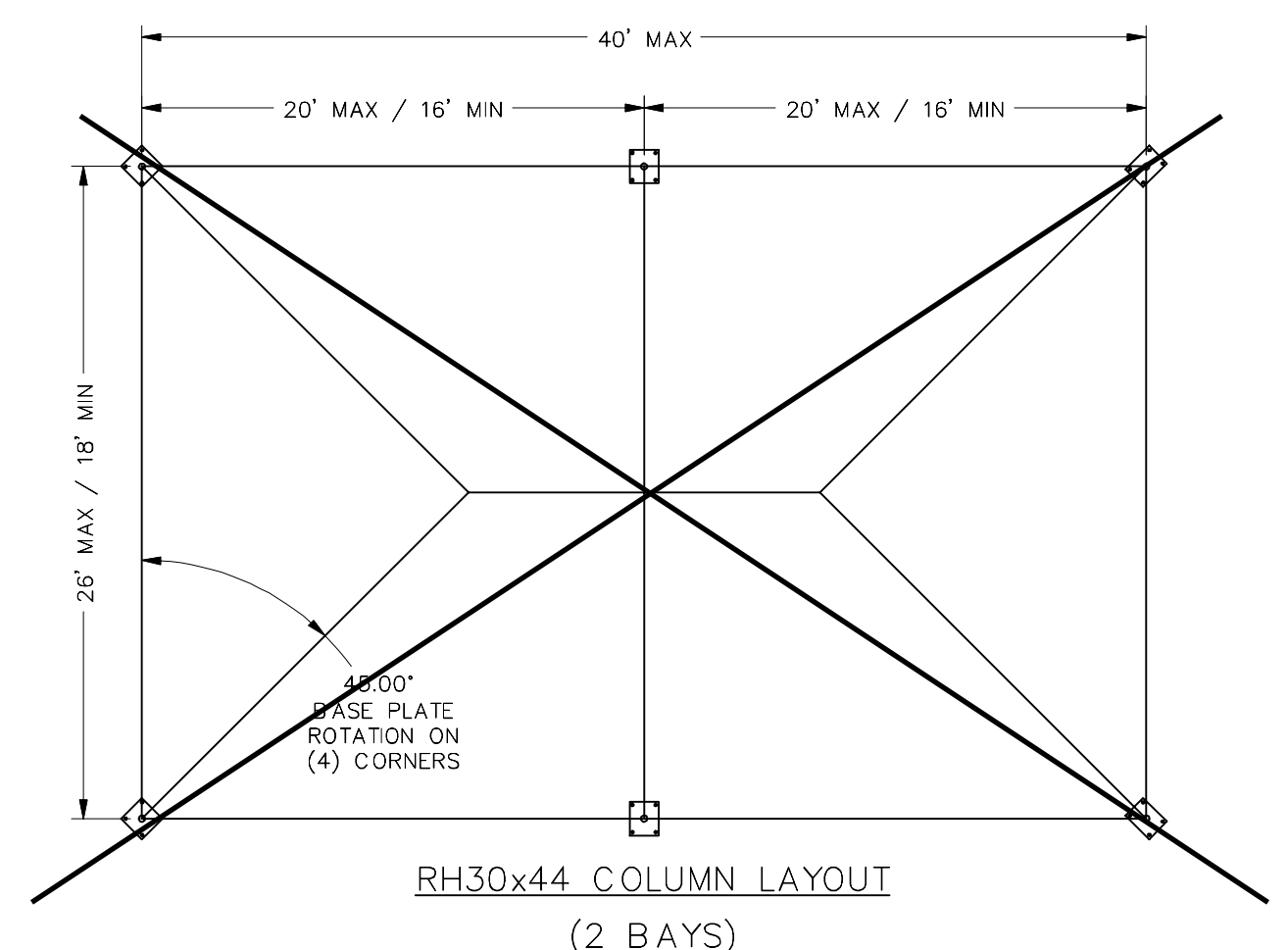
DSA 103



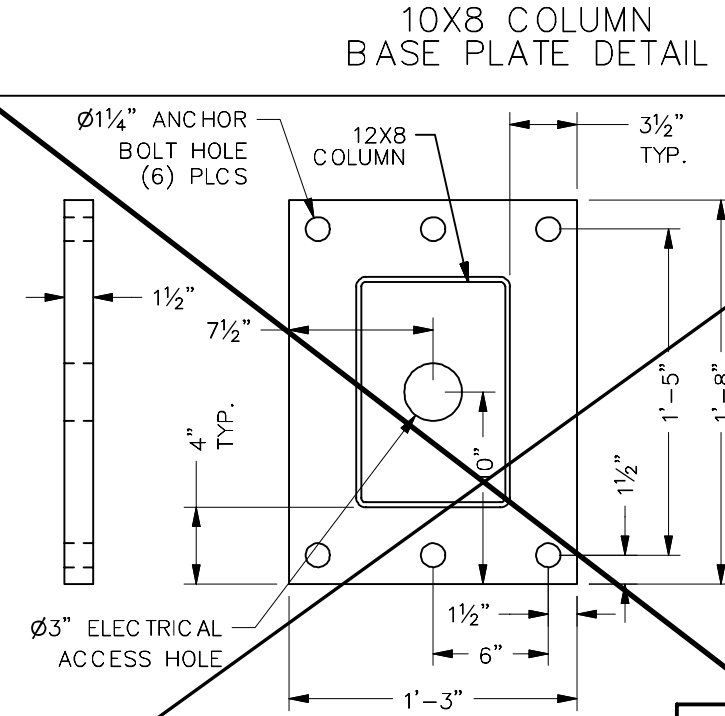
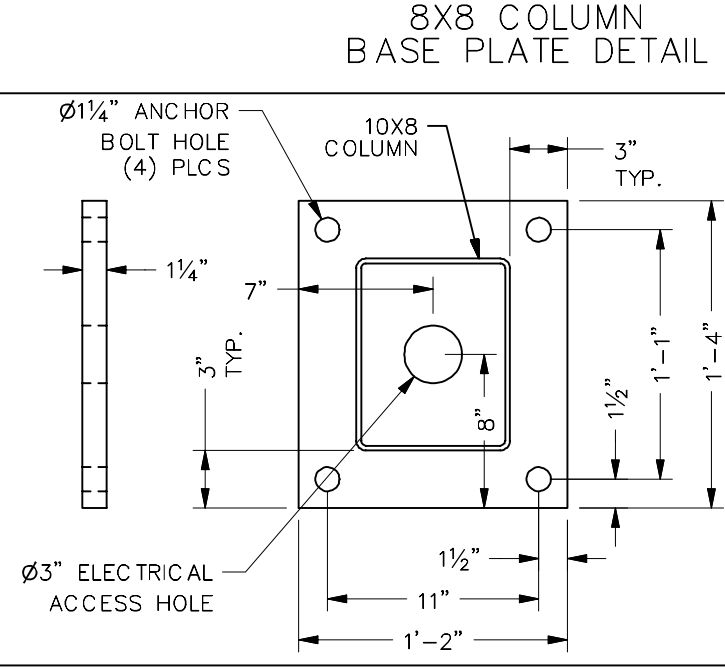
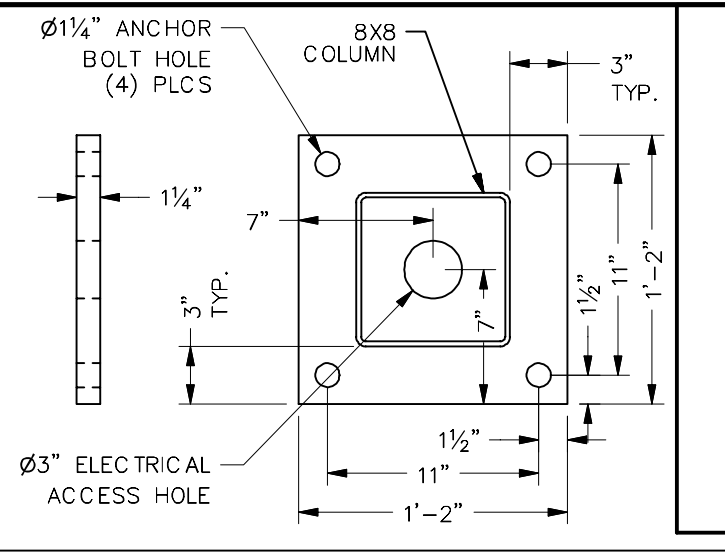
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616.396.0944 FX

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PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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BASE PLATE LOCATION	
DETAIL A	DETAIL B
8'	BP1
10'	BP1
12'	BP2



NOTES:
 COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.
 WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

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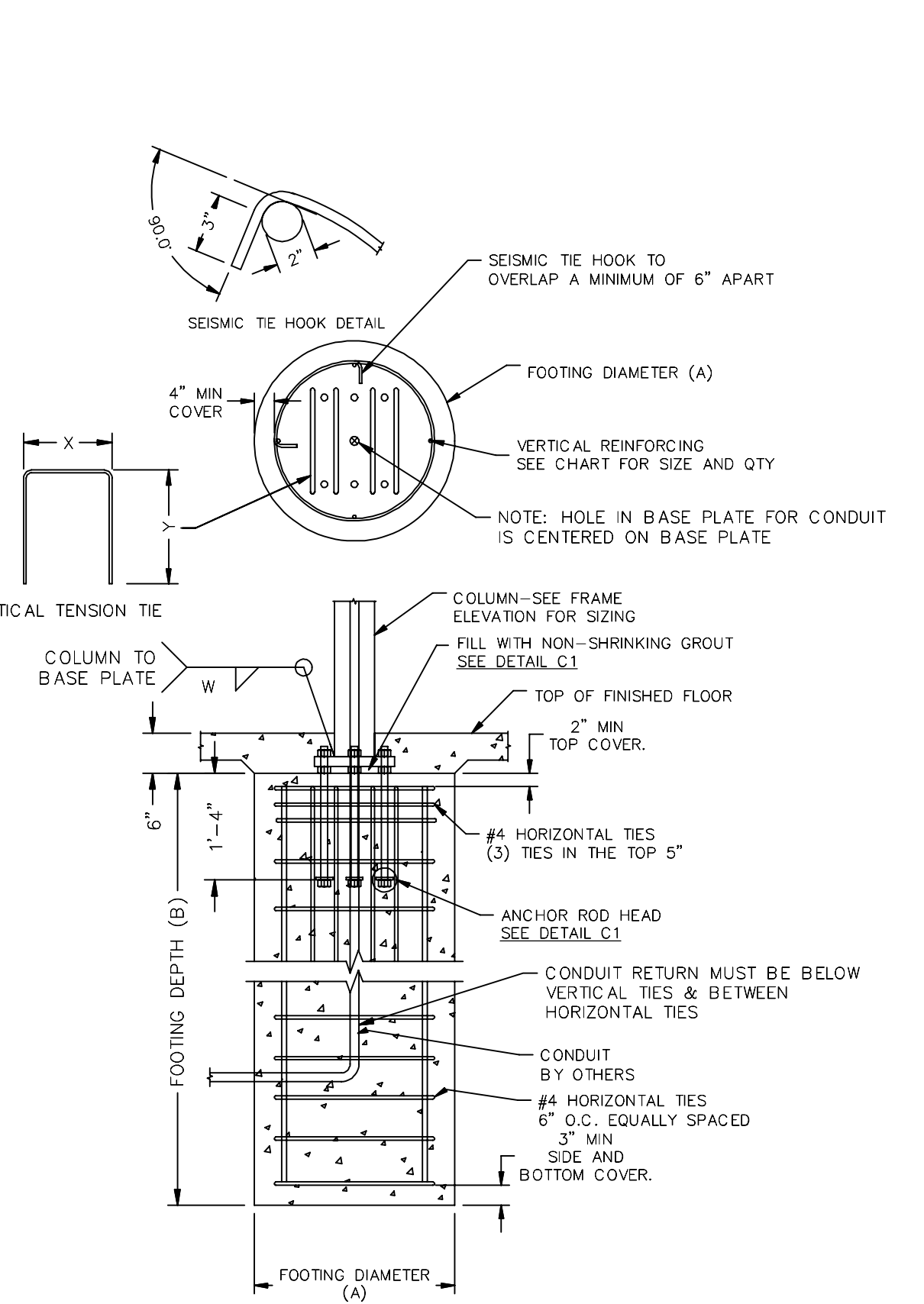
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 ANGELO D. FORNARI
 LICENSE NO. 5000
 STATE OF CALIFORNIA
 4/7/29/2021

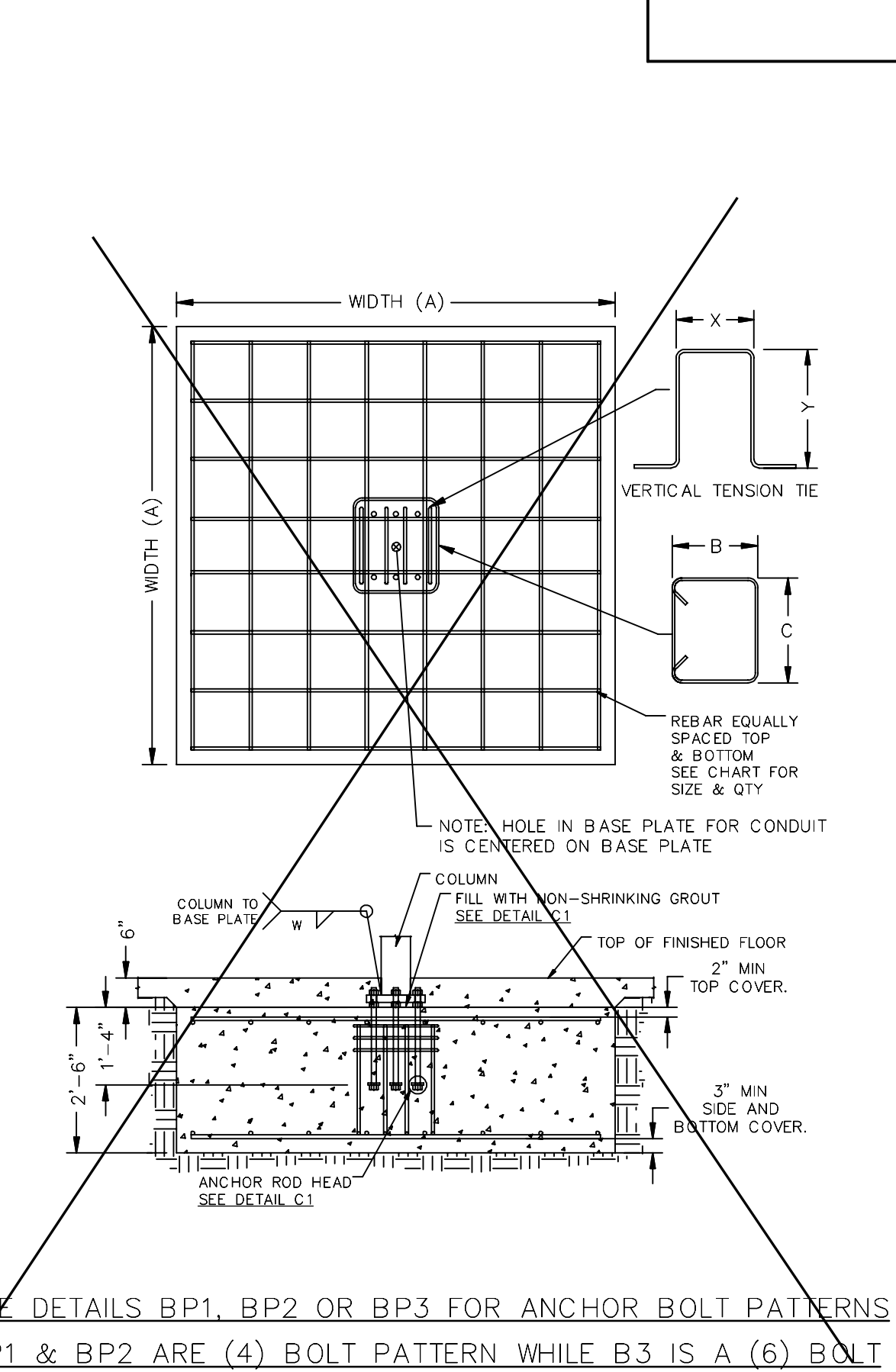
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30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Rebar Qty
Soil Class 5 - 1500 psf Bearing	24	114	6	6
Soil Class 4 - 2000 psf Bearing	24	98	6	6
Soil Class 3 - 3000 psf Bearing	24	92	6	6
8' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	144	12	6
Soil Class 4 - 2000 psf Bearing	30	132	8	6
Soil Class 3 - 3000 psf Bearing	30	118	8	6
10' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	24	120	6	6
Soil Class 4 - 2000 psf Bearing	24	102	6	6
Soil Class 3 - 3000 psf Bearing	24	92	6	6
10' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	136	12	6
Soil Class 4 - 2000 psf Bearing	30	124	8	6
Soil Class 3 - 3000 psf Bearing	30	112	8	6
12' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	30	132	8	6
Soil Class 4 - 2000 psf Bearing	30	112	8	6
Soil Class 3 - 3000 psf Bearing	30	102	8	6
12' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	140	12	6
Soil Class 4 - 2000 psf Bearing	36	120	12	6
Soil Class 3 - 3000 psf Bearing	36	108	12	6



RH30 - SPREAD														
8' height - Corner Columns														
Soil Class	Depth (in)	Rebar Qty	Rebar Size	T&B Qty	Rebar Size	Rebar Qty	Rebar Size	X (in)	Y (in)	B (in)	C (in)	Fillet Weld "W"		
Soil Class 5 - 1500 psf Bearing	60	30	4	6	56	30	4	6	14	20	15.9	17.3	5	1/4
Soil Class 4 - 2000 psf Bearing	56	30	4	6	54	30	4	6	14	20	15.9	17.3	5	1/4
Soil Class 3 - 3000 psf Bearing	54	30	4	6	52	30	4	6	14	20	15.9	17.3	5	1/4
8' height - Side Columns														
Soil Class 5 - 1500 psf Bearing	80	30	5	6	72	30	5	6	16	20	15.6	19.3	5	1/4
Soil Class 4 - 2000 psf Bearing	72	30	5	6	68	30	5	6	16	20	15.6	19.3	5	1/4
Soil Class 3 - 3000 psf Bearing	68	30	5	6	64	30	5	6	16	20	15.6	19.3	5	1/4
10' height - Corner Columns														
Soil Class 5 - 1500 psf Bearing	66	30	5	6	60	30	4	6	14	20	15.9	17.3	5	1/4
Soil Class 4 - 2000 psf Bearing	60	30	4	6	56	30	4	6	14	20	15.9	17.3	5	1/4
Soil Class 3 - 3000 psf Bearing	56	30	4	6	52	30	4	6	14	20	15.9	17.3	5	1/4
10' height - Side Columns														
Soil Class 5 - 1500 psf Bearing	81	30	5	6	72	30	5	6	16	20	15.6	19.3	5	1/4
Soil Class 4 - 2000 psf Bearing	72	30	5	6	68	30	5	6	16	20	15.6	19.3	5	1/4
Soil Class 3 - 3000 psf Bearing	68	30	5	6	64	30	5	6	16	20	15.6	19.3	5	1/4
12' height - Corner Columns														
Soil Class 5 - 1500 psf Bearing	78	30	5	6	72	30	5	6	16	20	15.6	19.3	5	5/16
Soil Class 4 - 2000 psf Bearing	72	30	5	6	68	30	5	6	16	20	15.6	19.3	5	5/16
Soil Class 3 - 3000 psf Bearing	68	30	5	6	64	30	5	6	16	20	15.6	19.3	5	5/16
12' height - Side Columns														
Soil Class 5 - 1500 psf Bearing	84	30	6	6	75	30	5	6	20	20	16.6	21.3	5	1/4
Soil Class 4 - 2000 psf Bearing	75	30	5	6	70	30	5	6	20	20	16.6	21.3	5	1/4
Soil Class 3 - 3000 psf Bearing	70	30	5	6	65	30	5	6	20	20	16.6	21.3	5	1/4



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

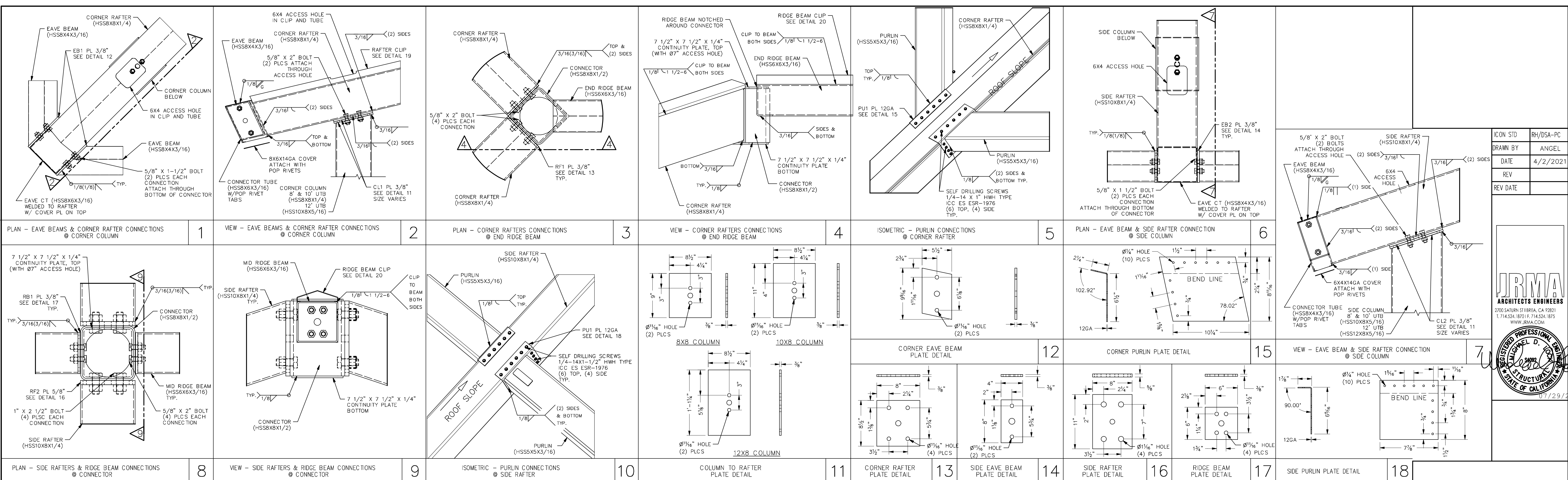
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30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

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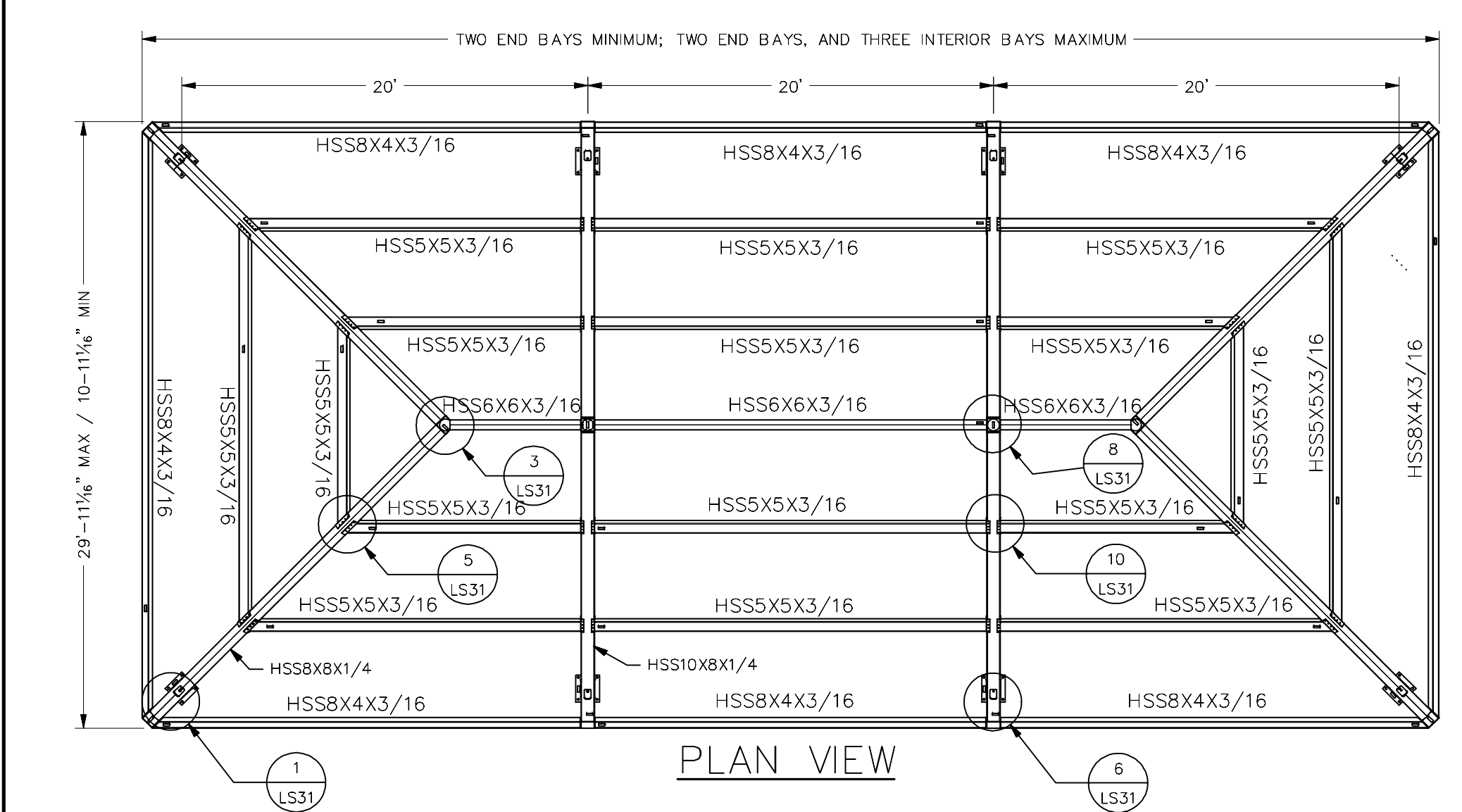
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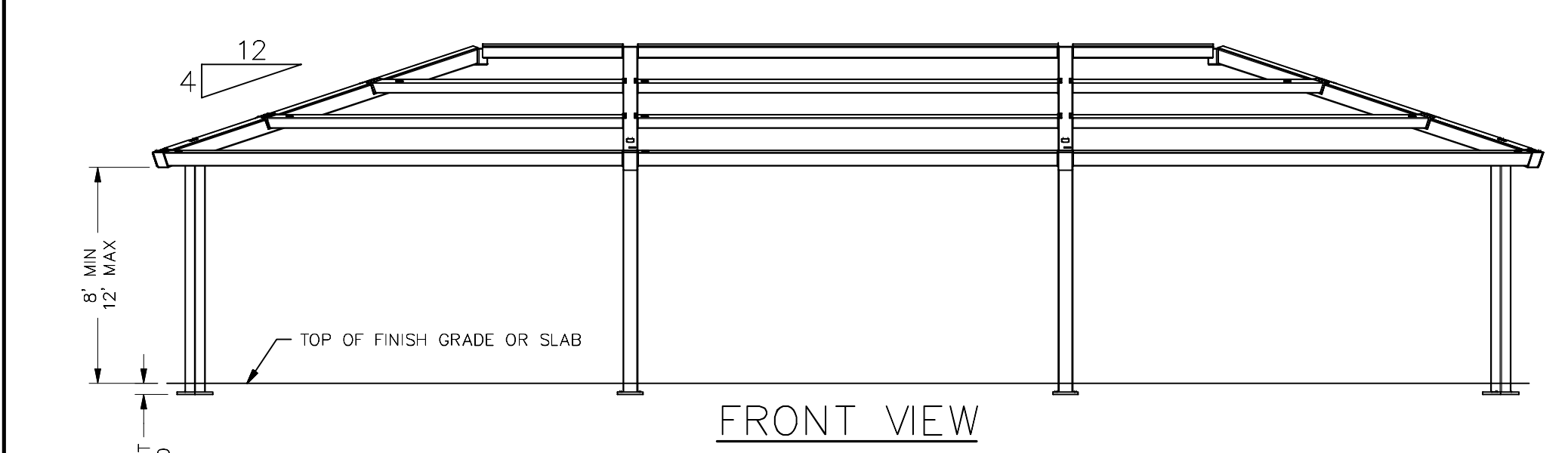
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REGISTERED PROFESSIONAL ENGINEER
ANGELO D. JOY
STATE OF CALIFORNIA
7/29/2021



MODEL DESIGNATION	
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY



*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

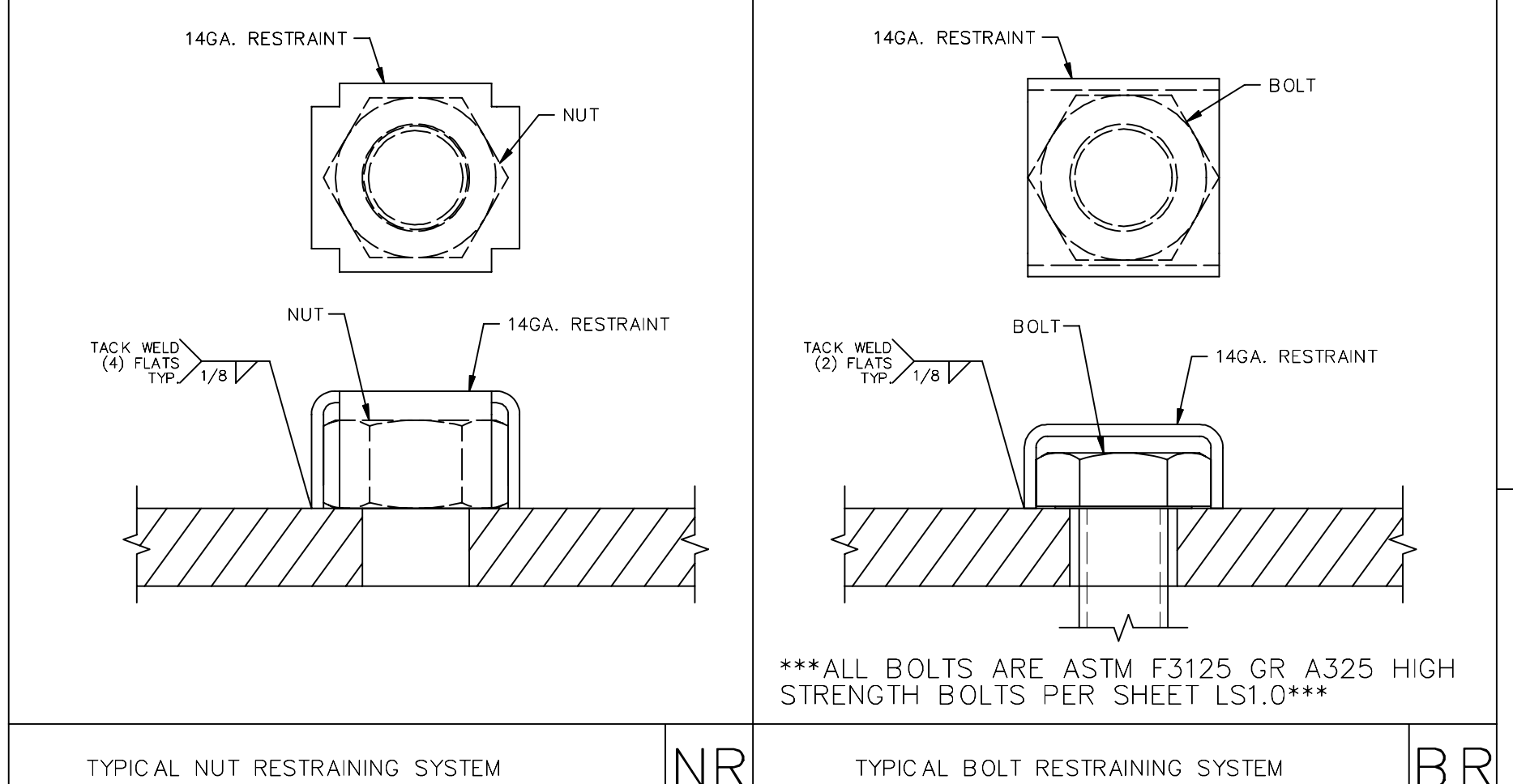
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE EAVE BEAM	HSS8X4X3/16		287 lbmass
7	4		CORNER RAFTER	HSS8X8X1/4		607 lbmass
8	*		SIDE RAFTER	HSS10X8X1/4		474 lbmass
9	2		END RIDGE BEAM	HSS6X6X3/16		149 lbmass
10	*		MID RIDGE BEAM	HSS6X6X3/16		329 lbmass
11	*		CONNECTOR	HSS8X8X1/2		48 lbmass
12	2		LH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
13	2		RH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
14	2		END PURLIN 1	HSS5X5X3/16		278 lbmass
15	2		LH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
16	2		RH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
17	2		END PURLIN 2	HSS5X5X3/16		137 lbmass
18	*		MID PURLIN	HSS5X5X3/16		284 lbmass

**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

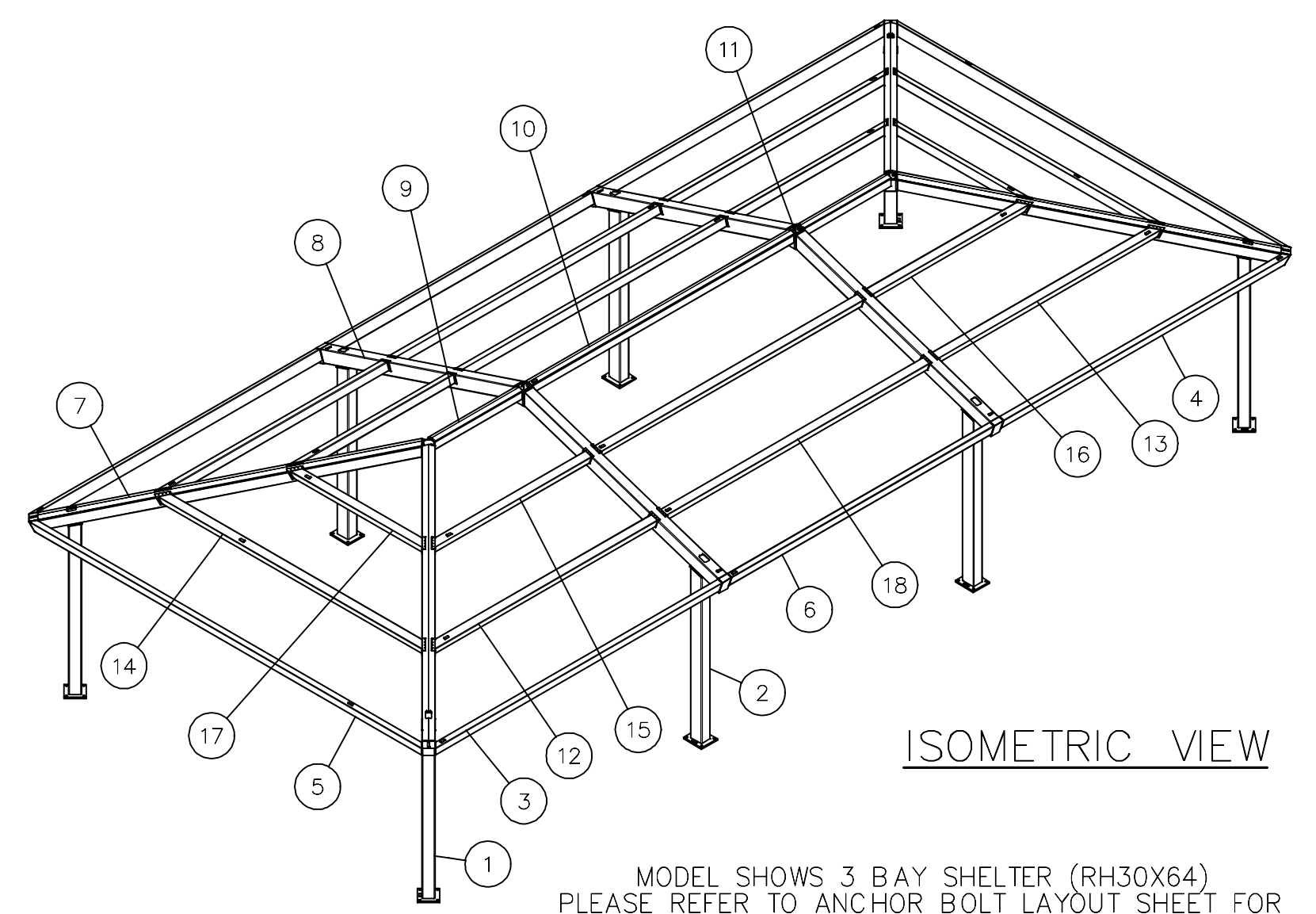
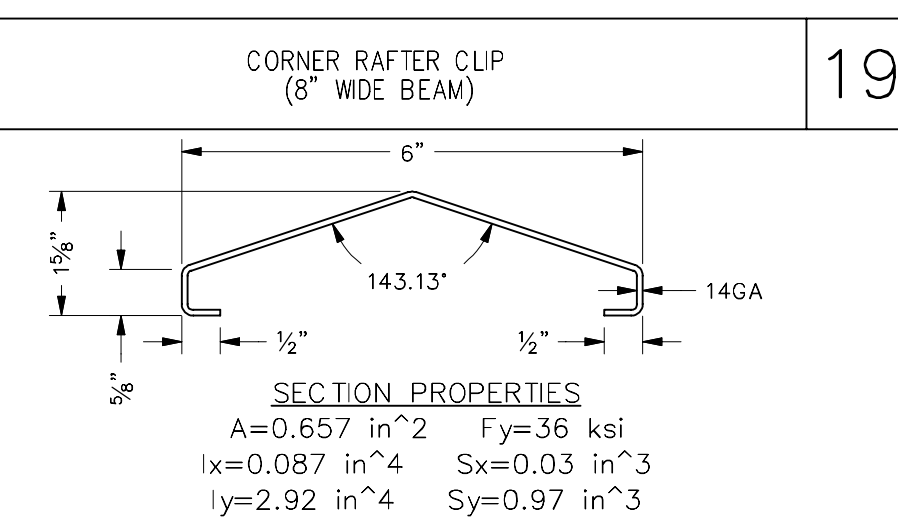
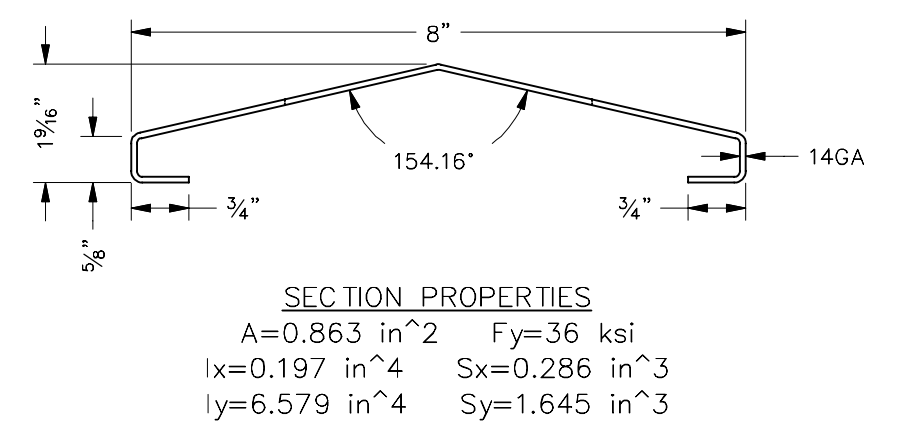
- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)

96" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES



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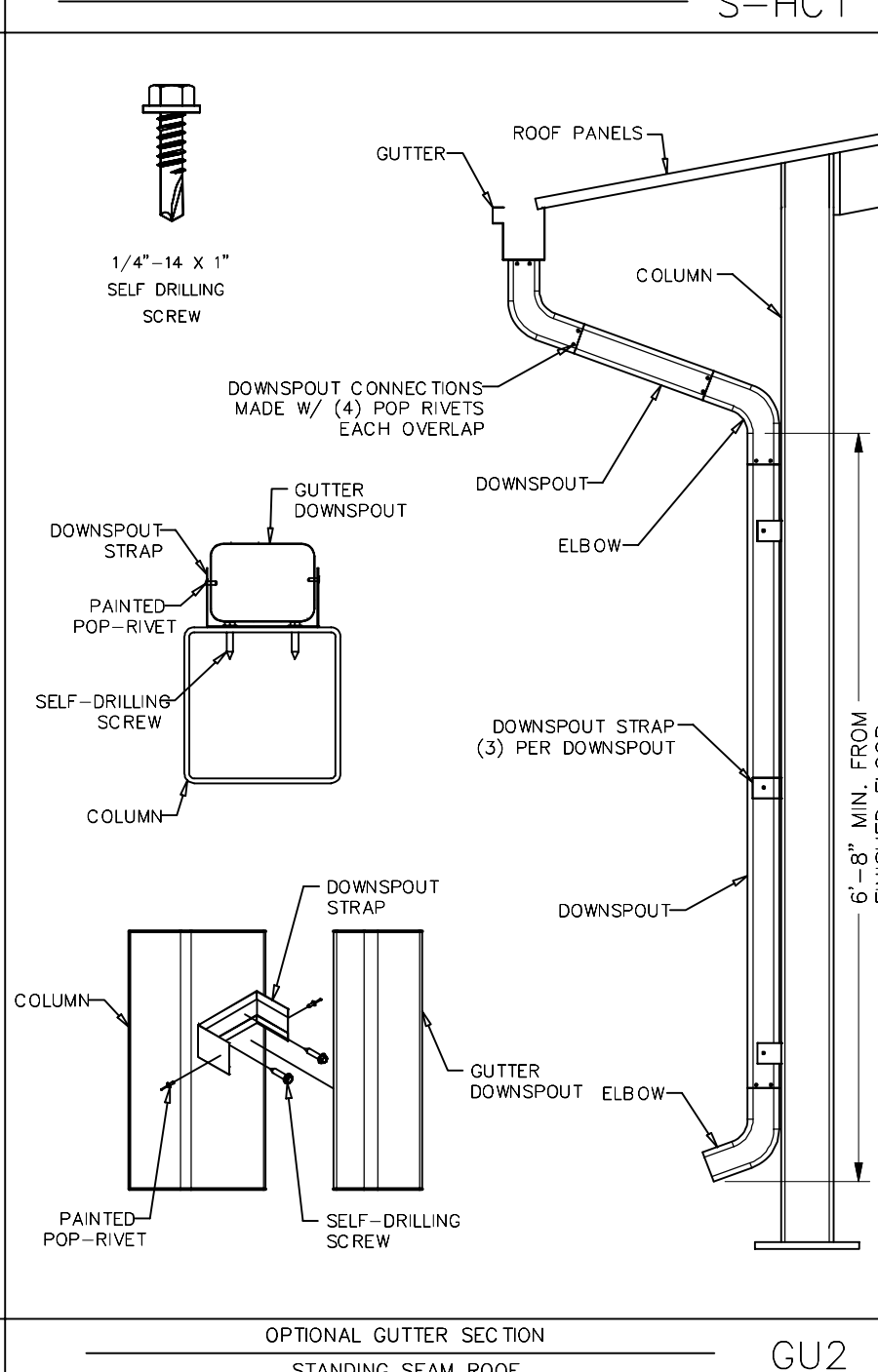
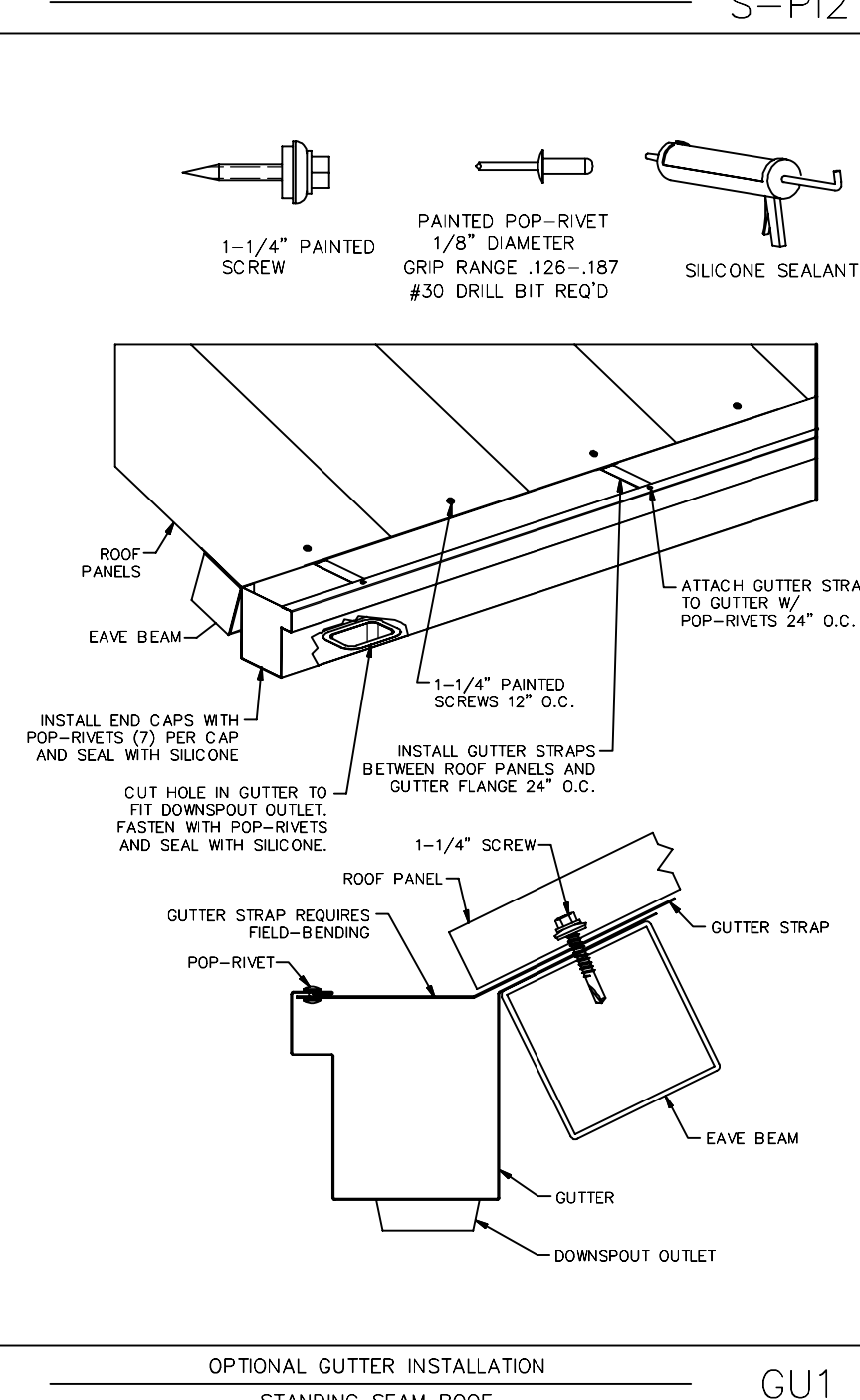
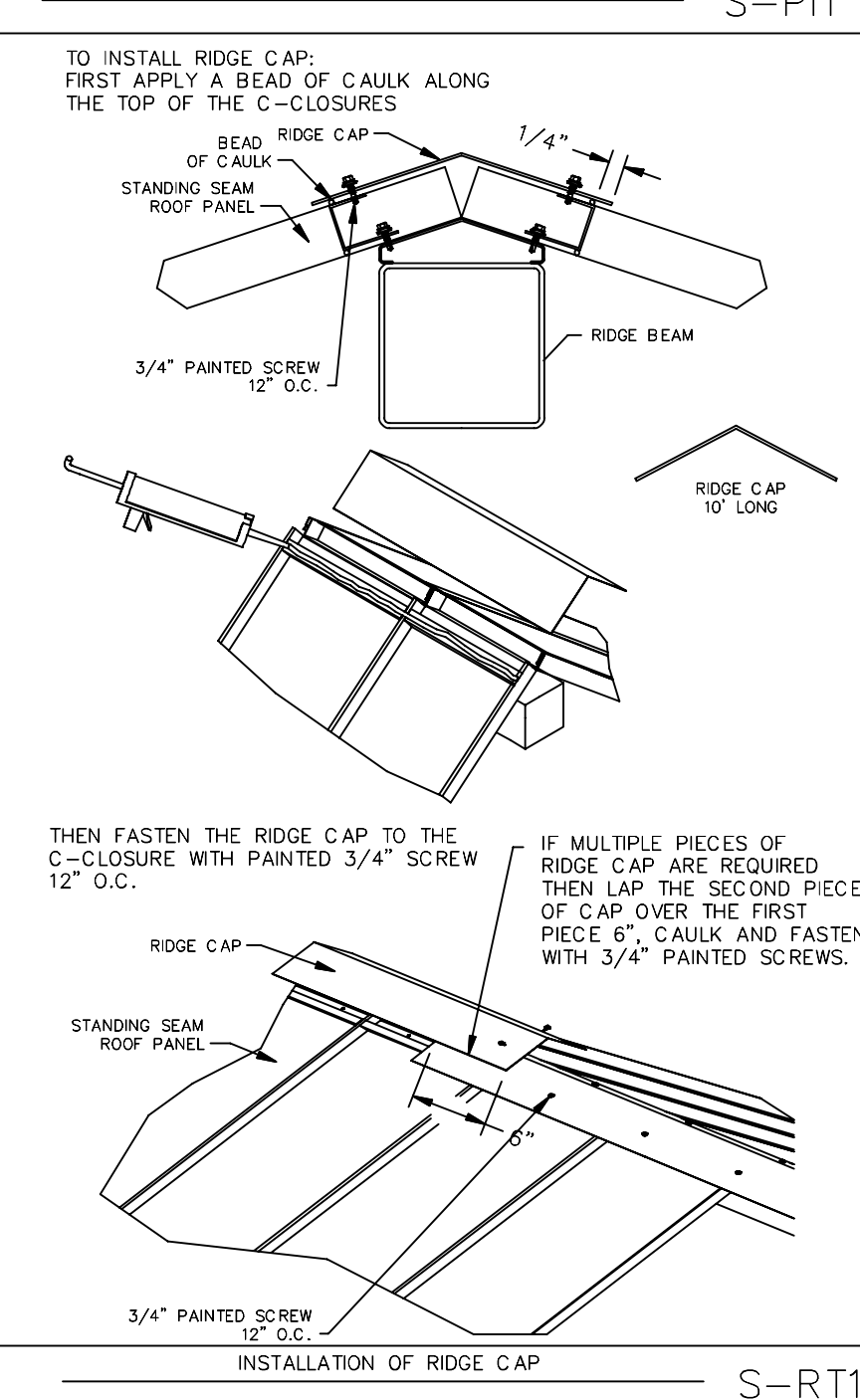
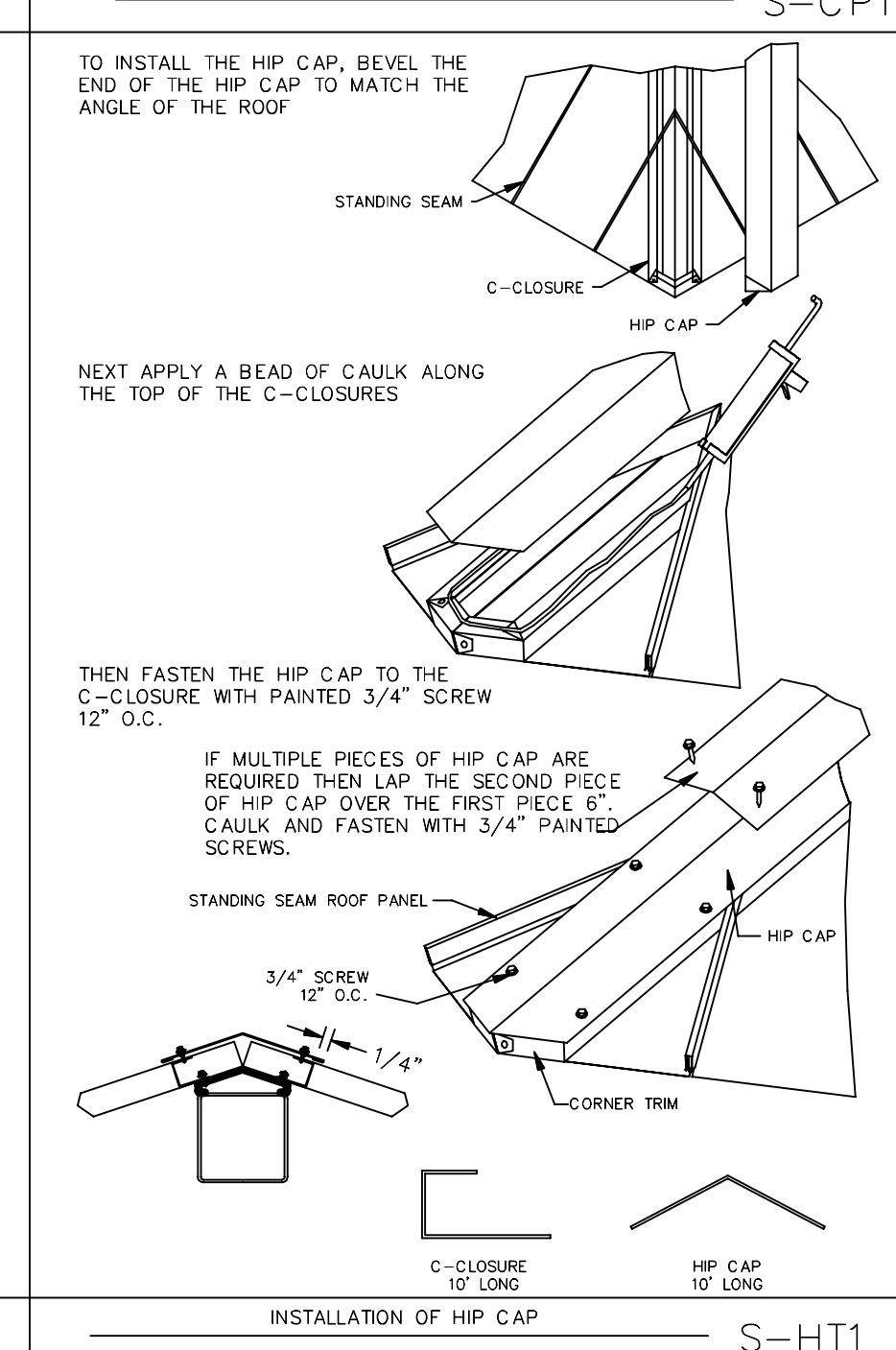
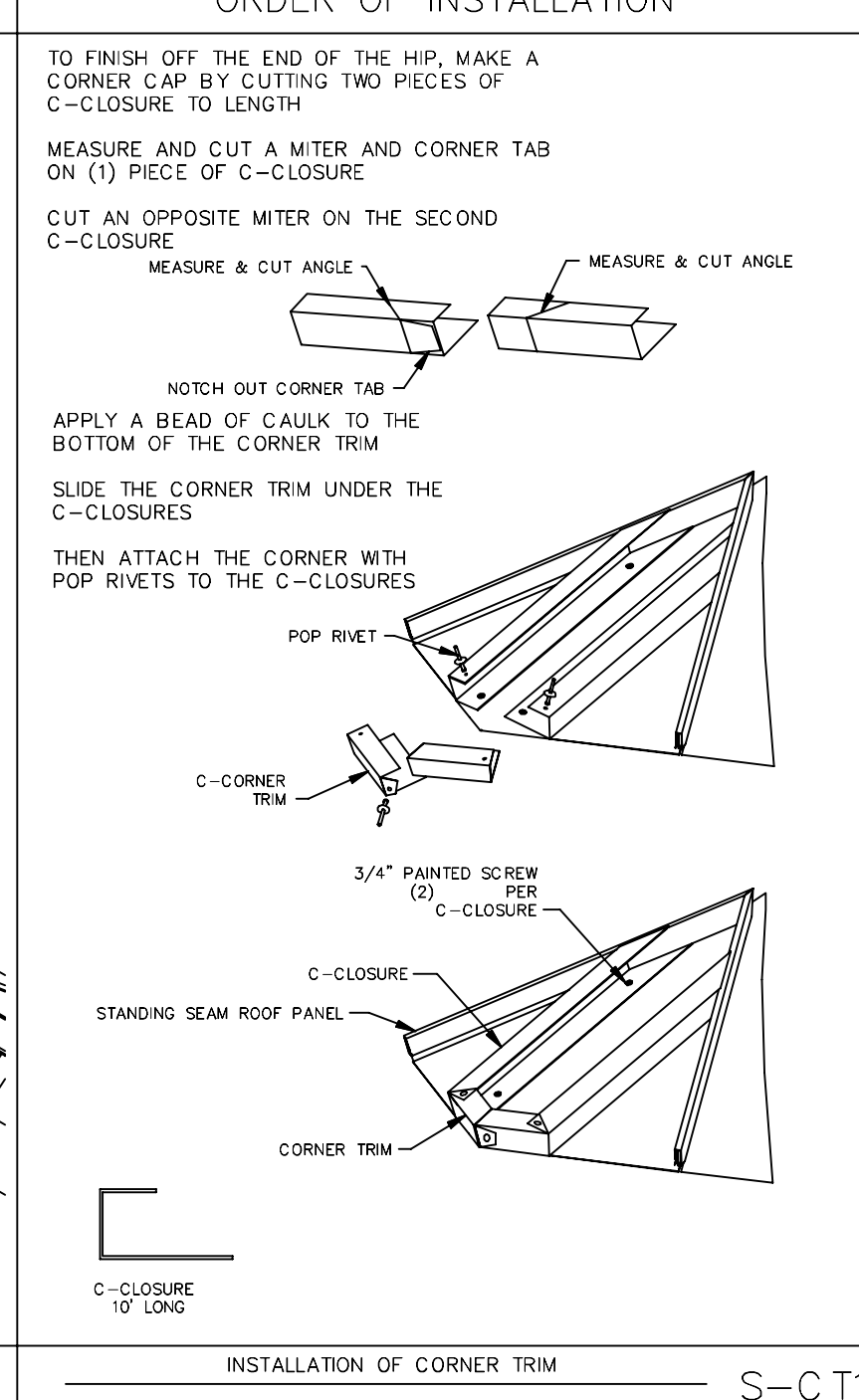
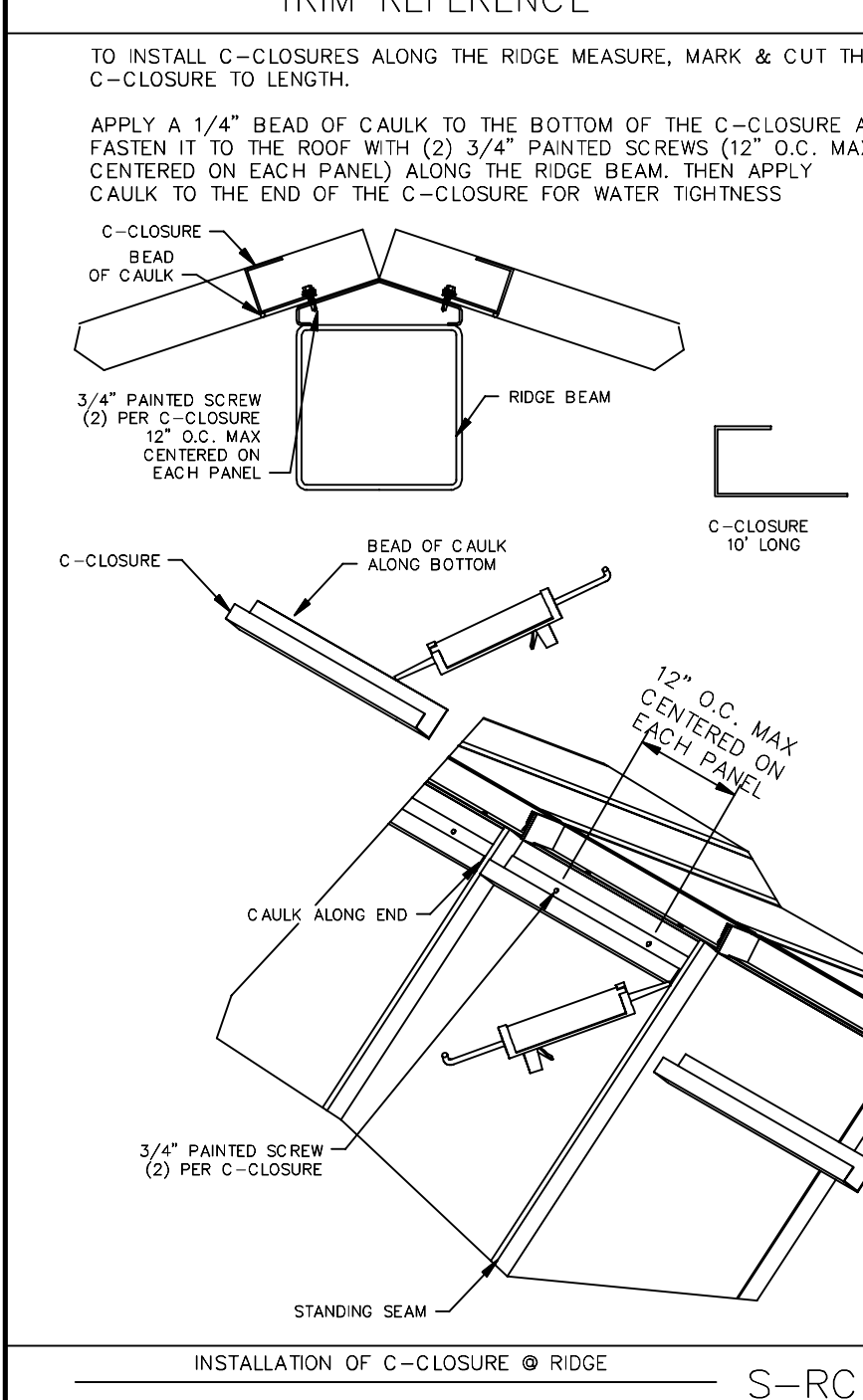
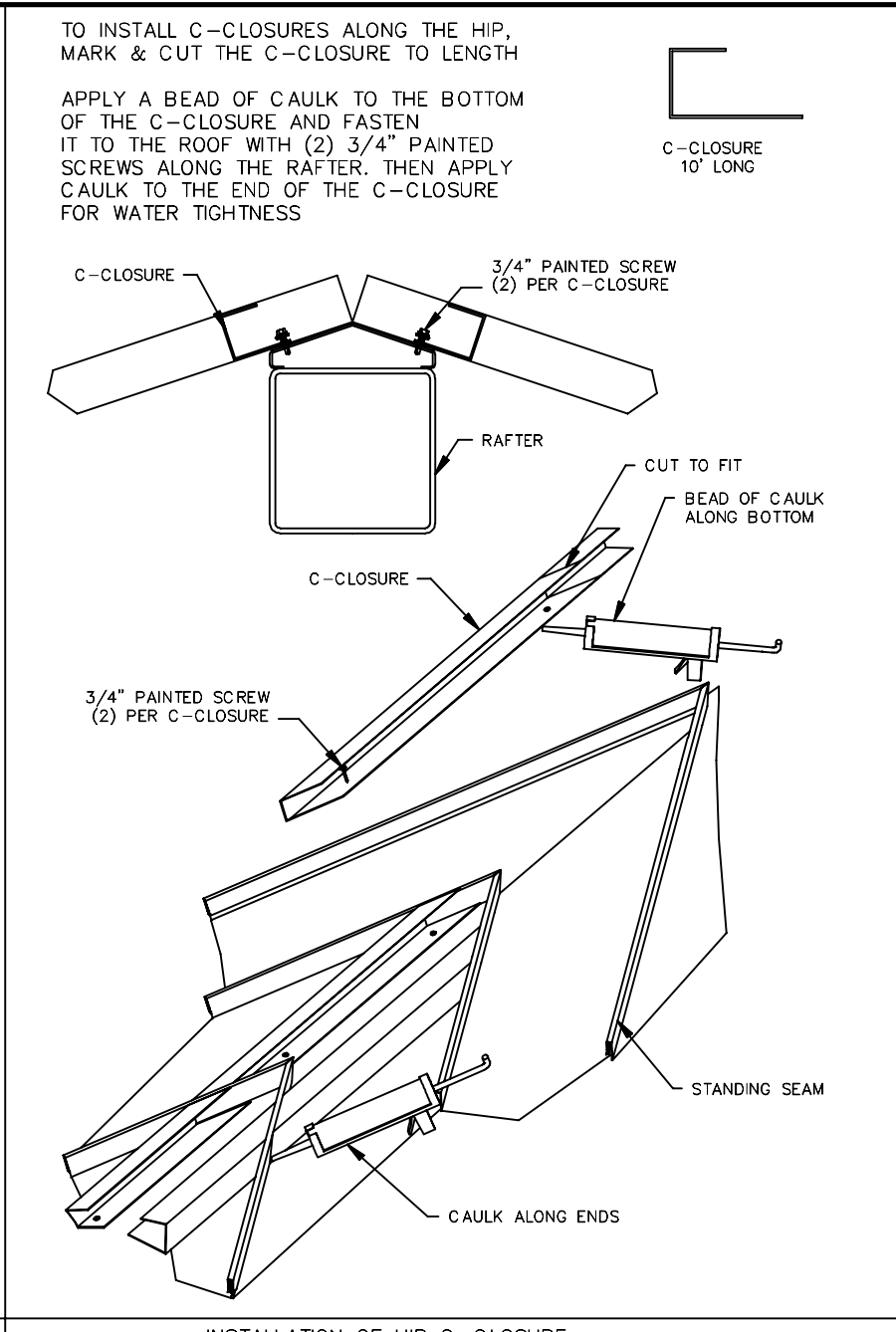
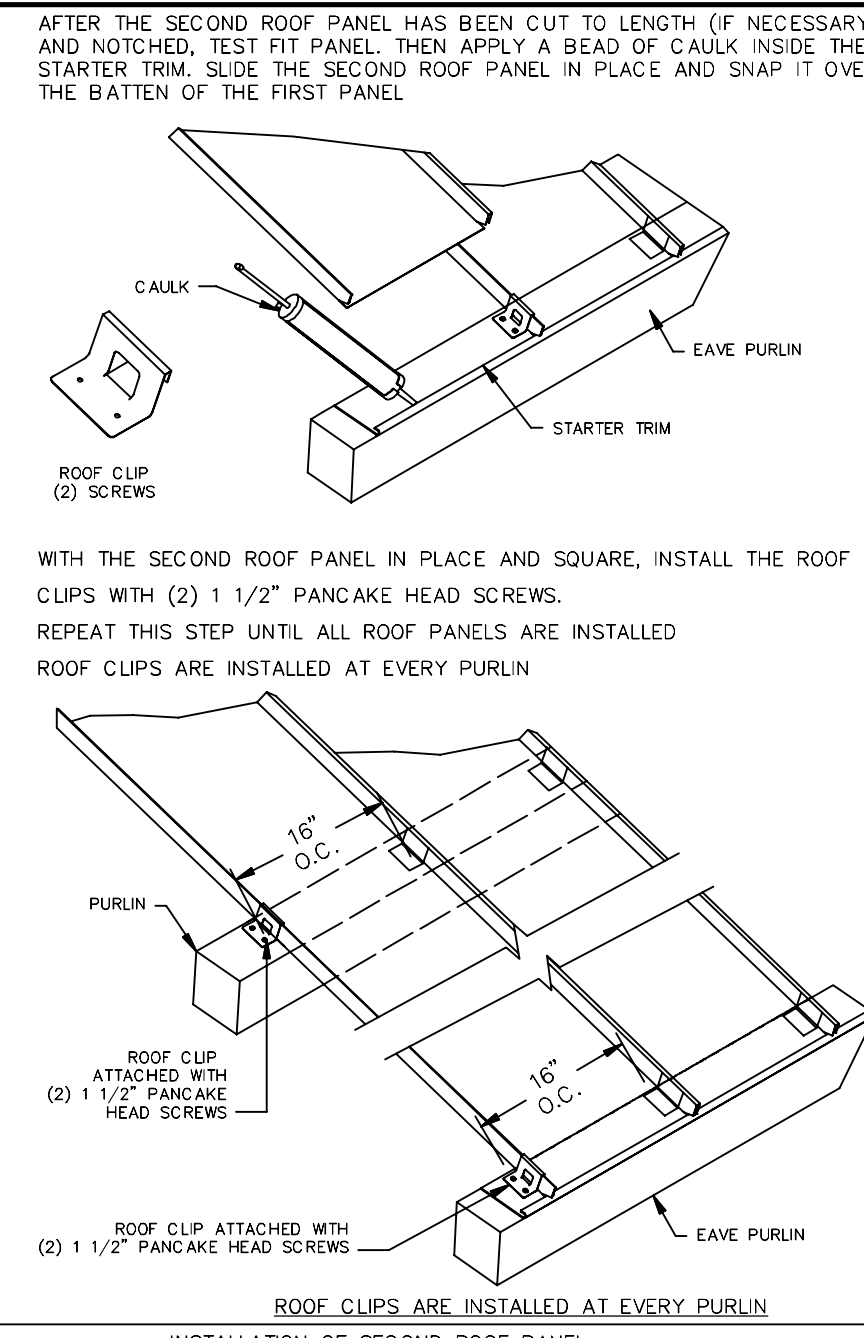
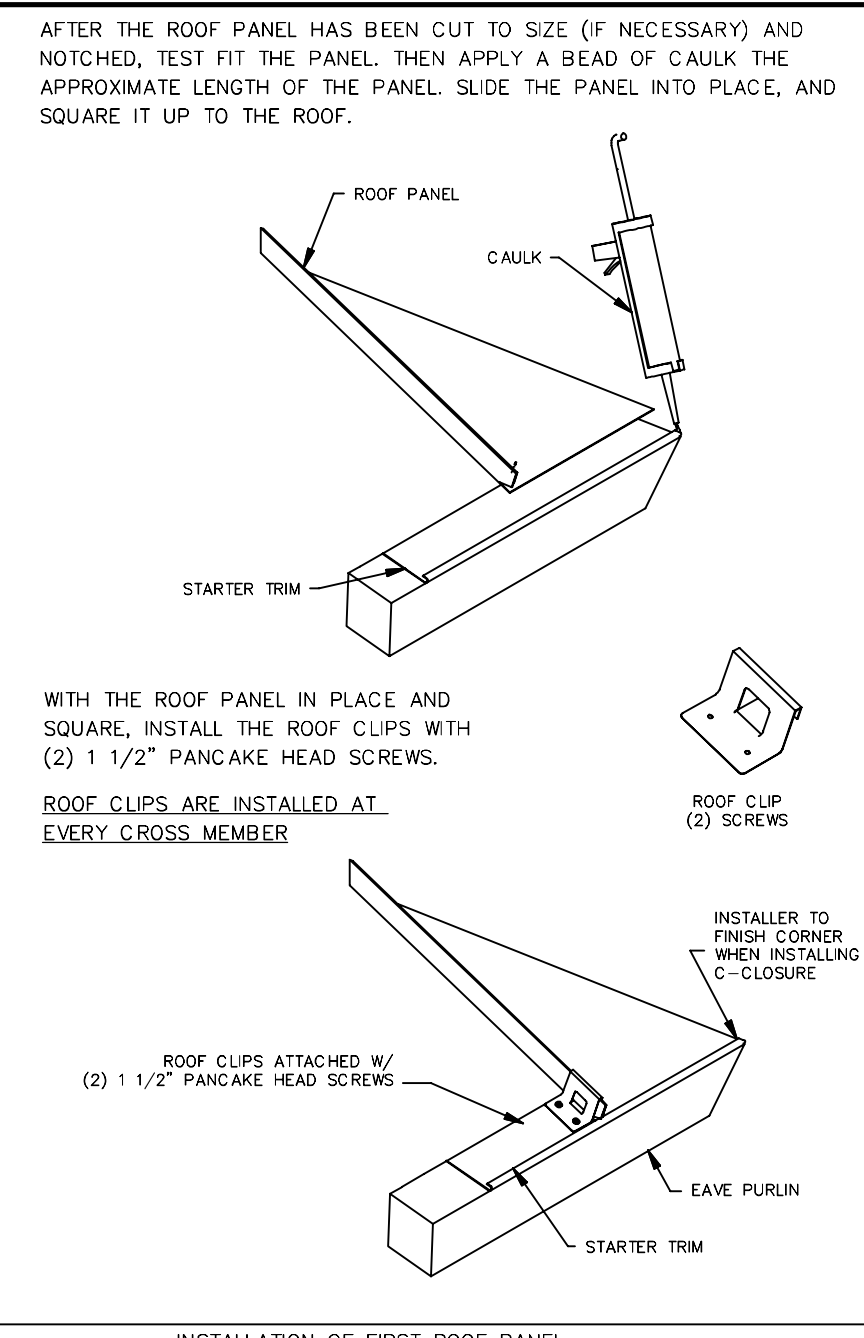
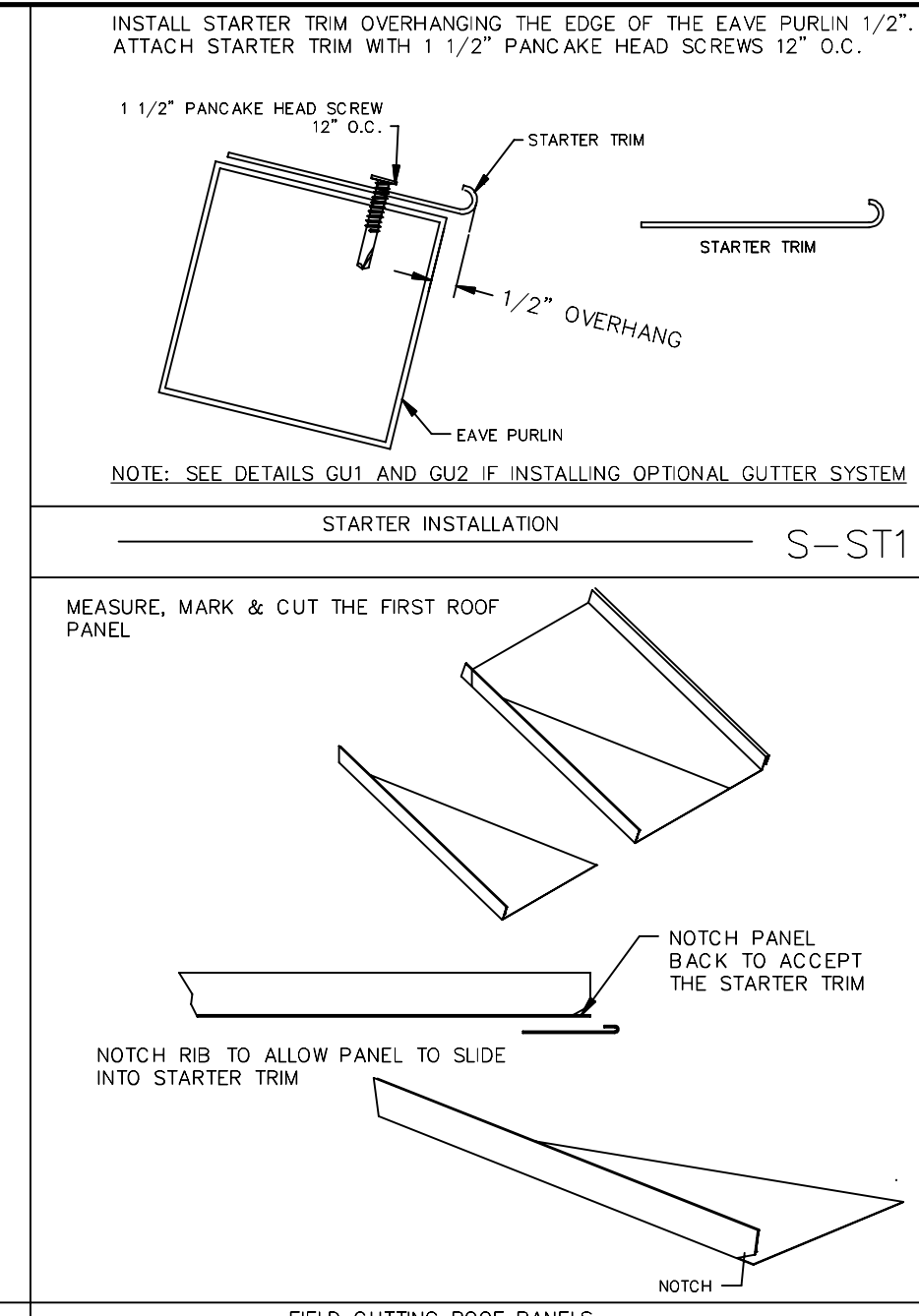
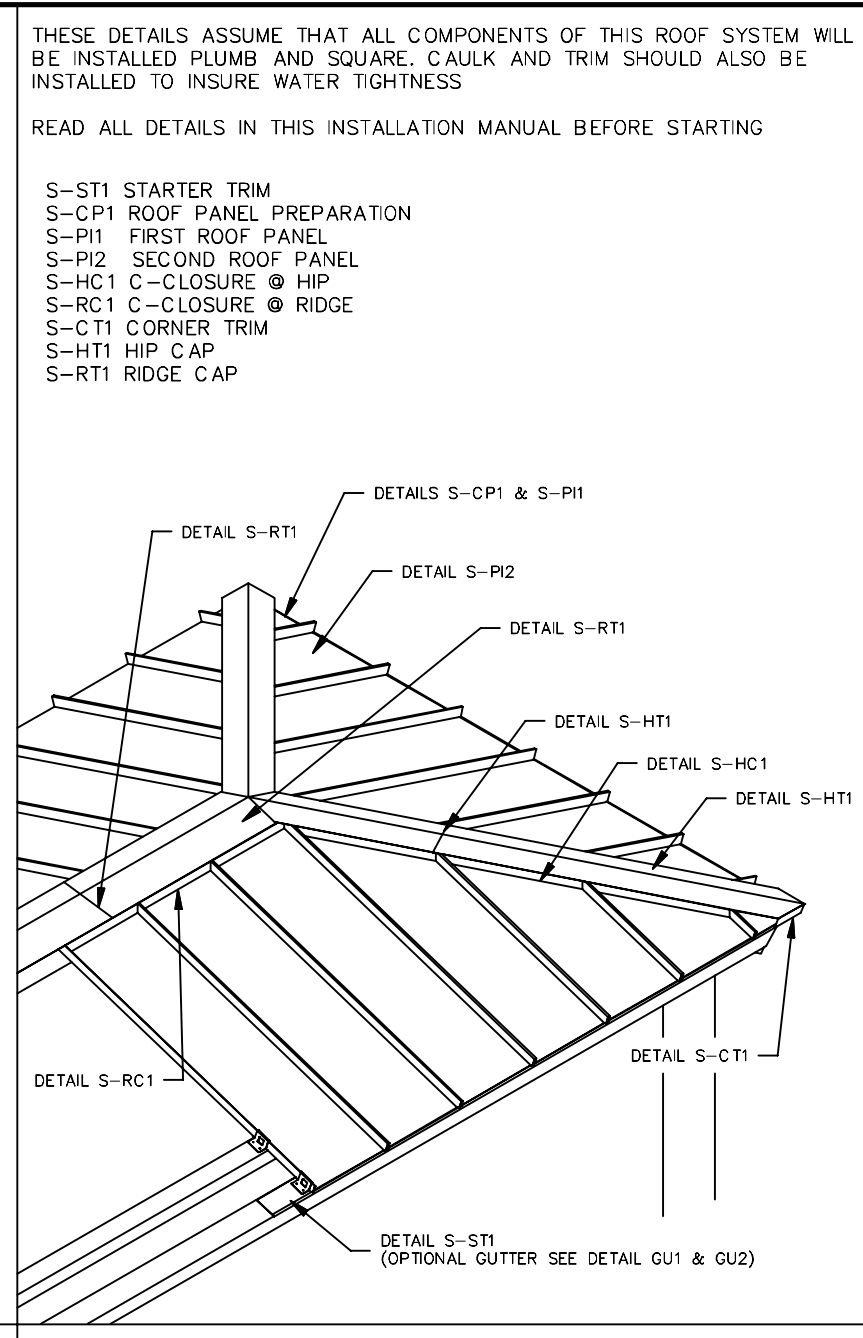
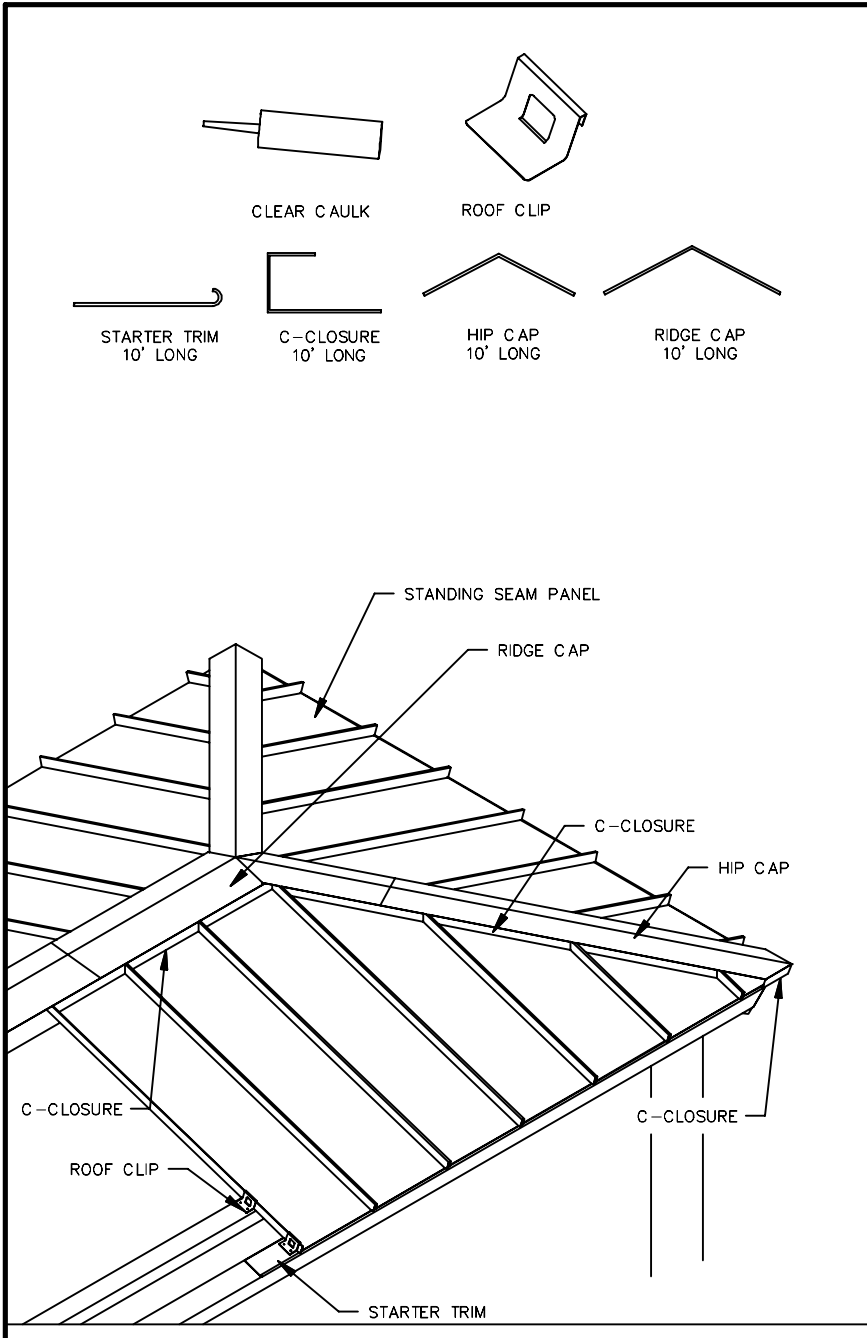
MODEL SHOWS 3 BAY SHELTER (RH30X64)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

30' WIDE
RECTANGULAR HIP
FRAMING &
CONNECTION DETAILS

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ROOF NOTES

ATTENTION INSTALLERS: METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

<p>INSTALLED CORRECTLY</p> <p>THE SEALING MATERIAL IS VISIBLE AROUND THE METAL WASHER</p>	<p>INSTALLED TOO TIGHT</p> <p>THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER</p>	<p>INSTALLED TOO LOOSE</p> <p>THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER</p>
--	---	--

THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE METAL ROOFING SYSTEM. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGN OR CODES. CHANGES TO THE DETAILS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSPERSON AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

3/4" PAINTED SCREW (4) PER C-CLOSURE
1 1/2" PANCAKE HEAD SCREW 12-24 x 1 1/2" SDS ICC ESR-1976

16" COVER WIDTH

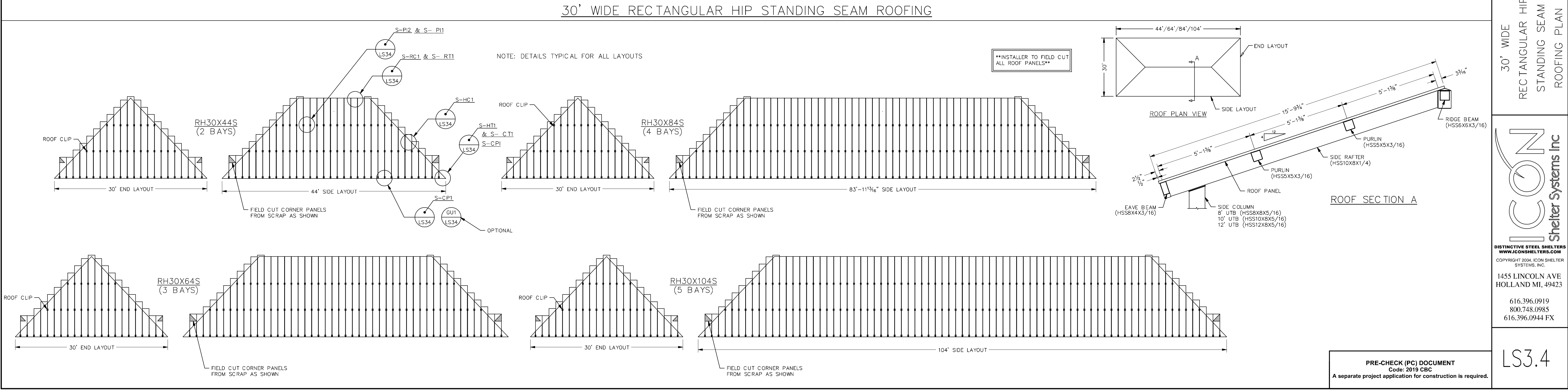
MEDALLION LOK STANDING SEAM PANEL SECTION
24 go. Fy = 50 ksi Fu = 65 ksi
ICC ESL-1082

SECTION PROPERTIES (PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.086 in^4
Sx=0.0561 in^3
Mx=1.68 in-kips

BOTTOM IN COMPRESSION
Ix=0.040 in^4
Sx=0.0479 in^3
Mx=1.248 in-kips

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REGISTERED PROFESSIONAL ENGINEER
ARCHITECT D. JOE
STATE OF CALIFORNIA
7/29/2021

30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING PLAN

ICON Shelter Systems Inc

DISTINCTIVE STEEL SHELTERS
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LS3.4

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

PRINTED ON :

ELECTRICAL INFORMATION - RECTANGULAR HIP

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

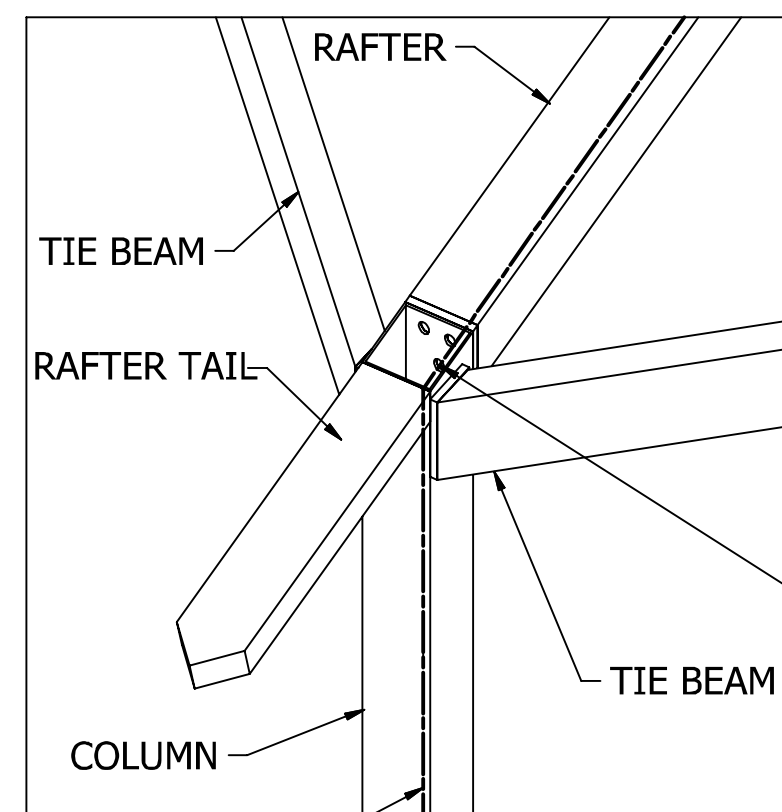
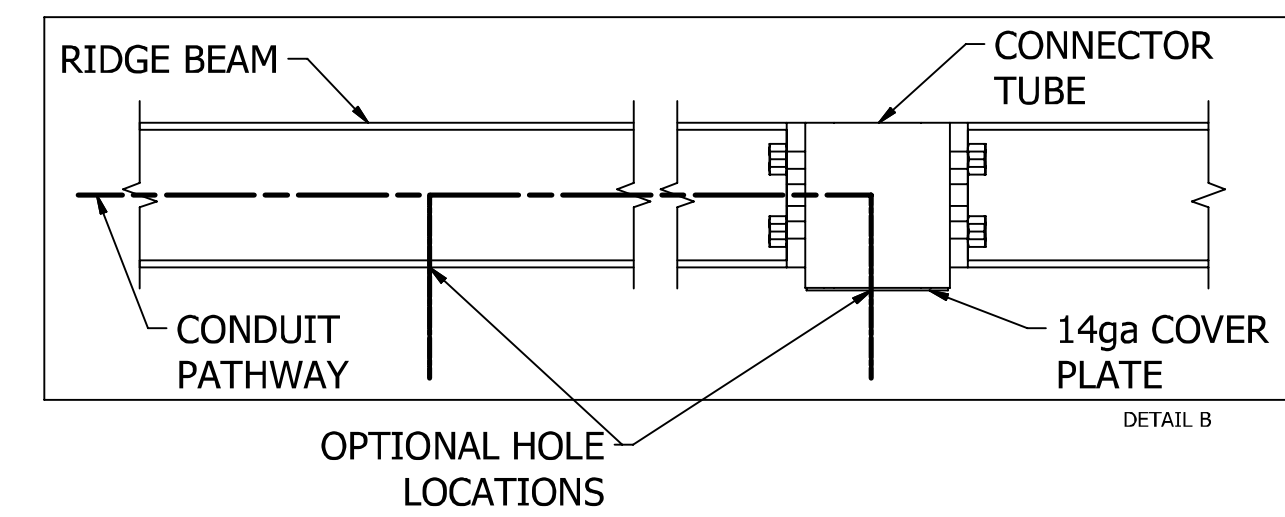
PRELIMINARY: NOT FOR CONSTRUCTION

STEPS:

1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

OPTIONAL EXIT HOLES

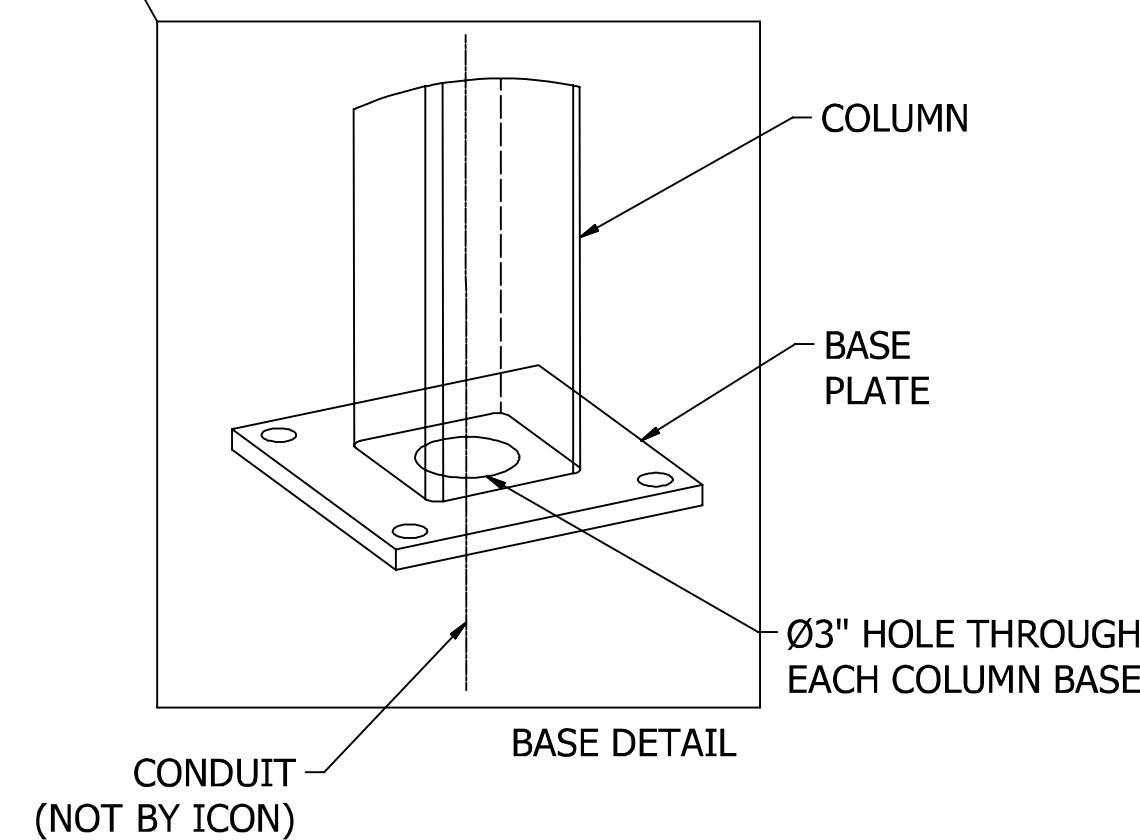
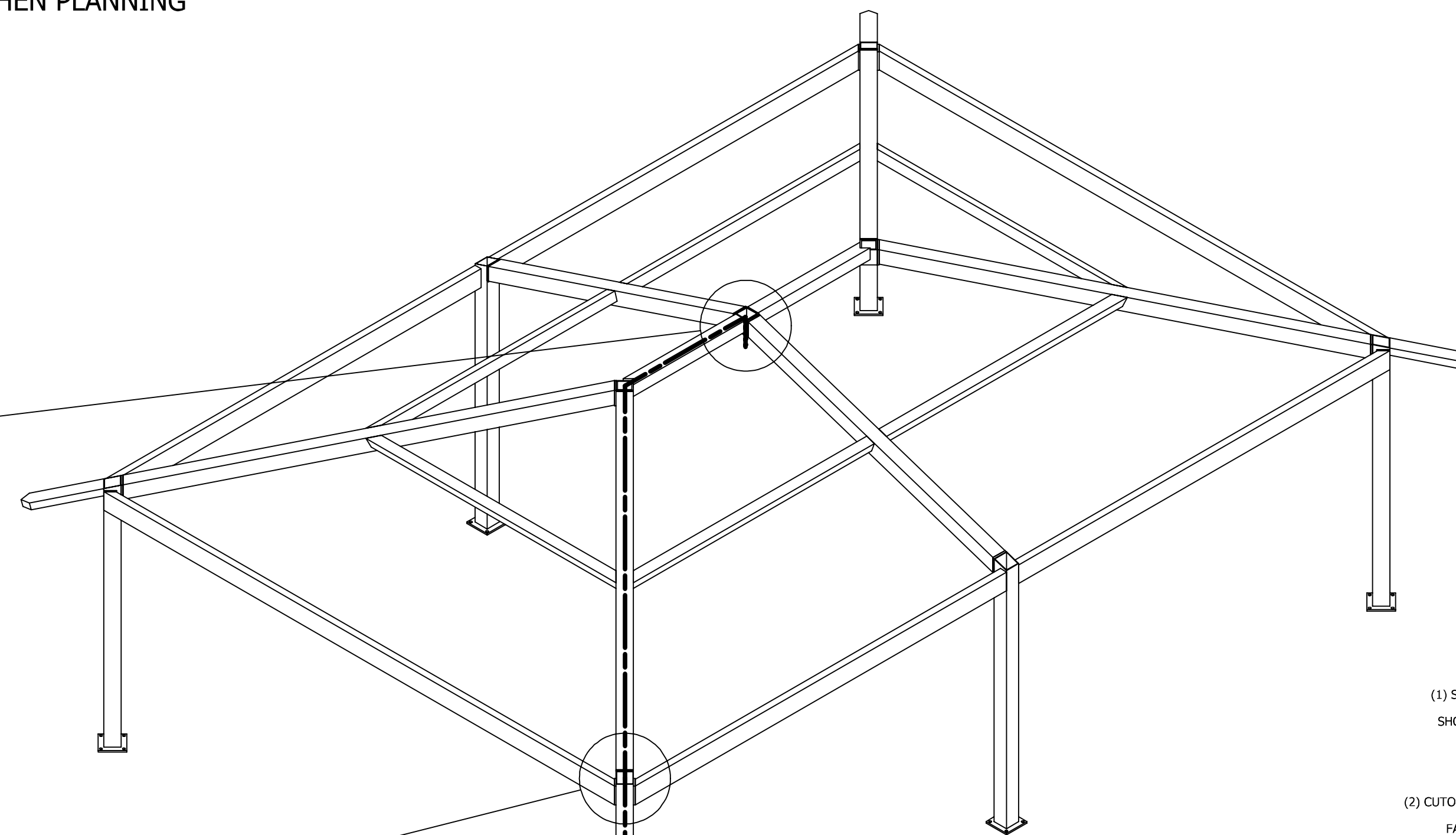
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



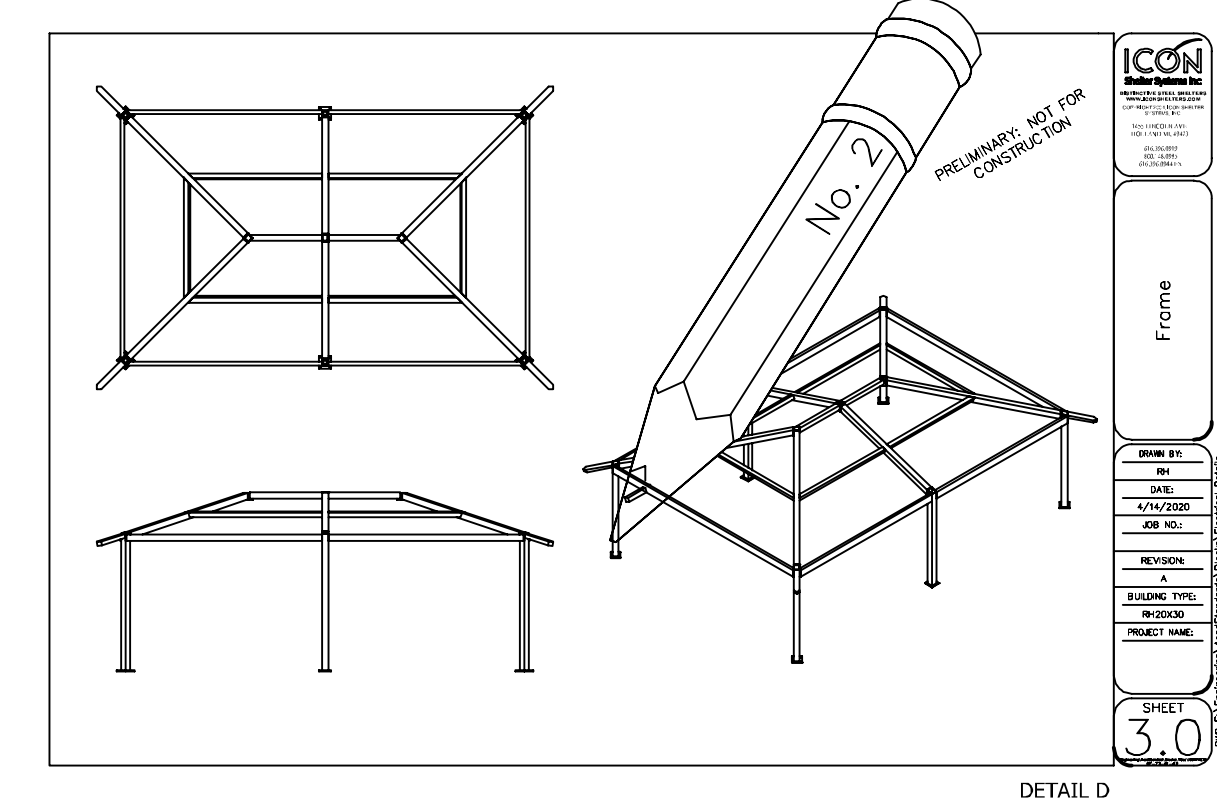
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 3/4" CONDUIT (1" HOLES)
- 1" CONDUIT (1 1/4" HOLES)
- OTHER (PLEASE SPECIFY)

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

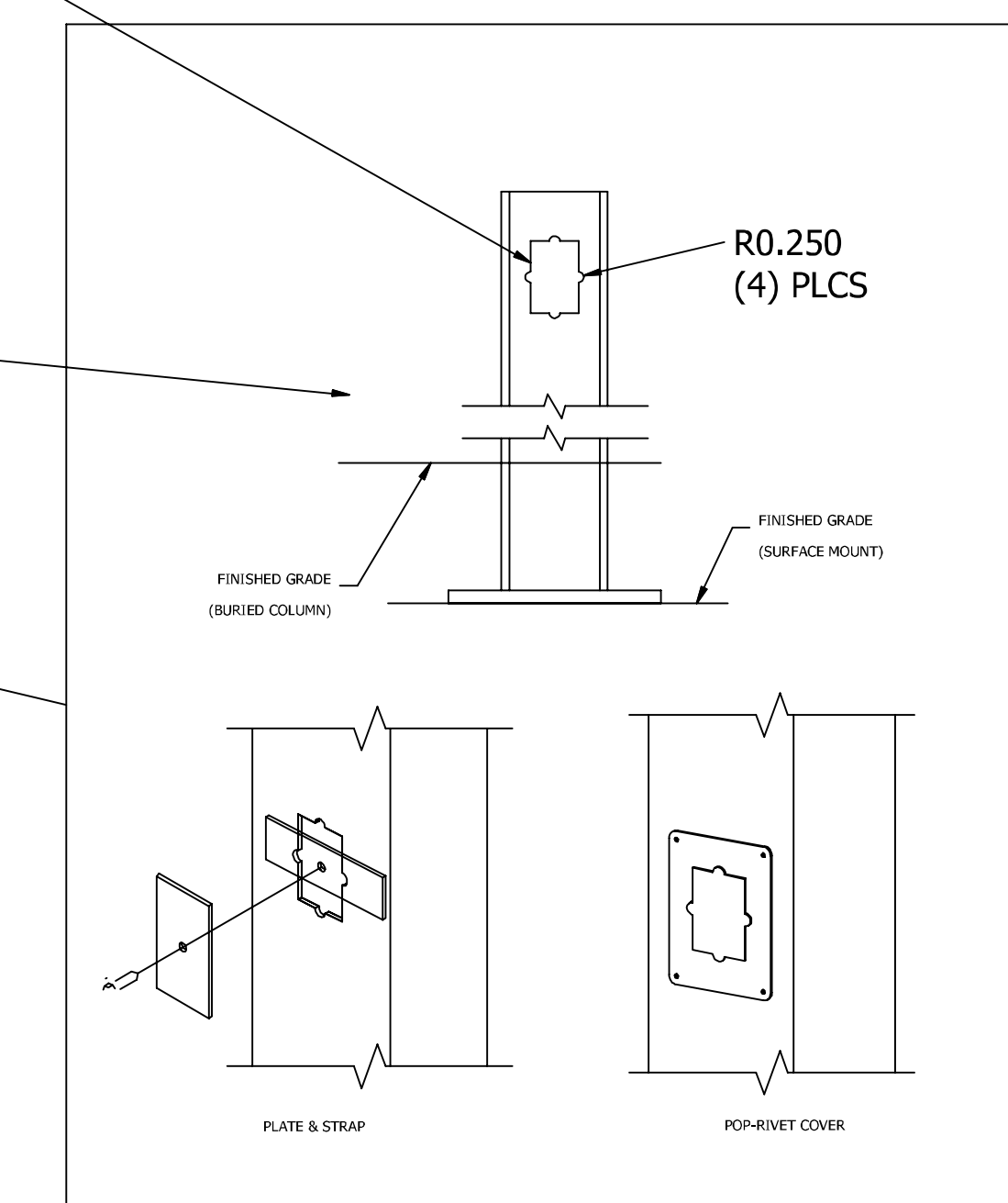


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL CUTOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY) SEE REQUIRED INFO BELOW

- (1) STANDARD CUTOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN



- (4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:
- PLATE & STRAP
 - POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

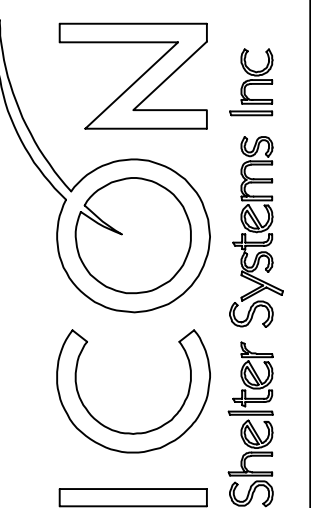
ICON STD	RH/DSA-PC
DRAWN BY	ANGEL
DATE	4/2/2021
REV	
REV DATE	

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07/29/2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021

ELECTRICAL ACCESS



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