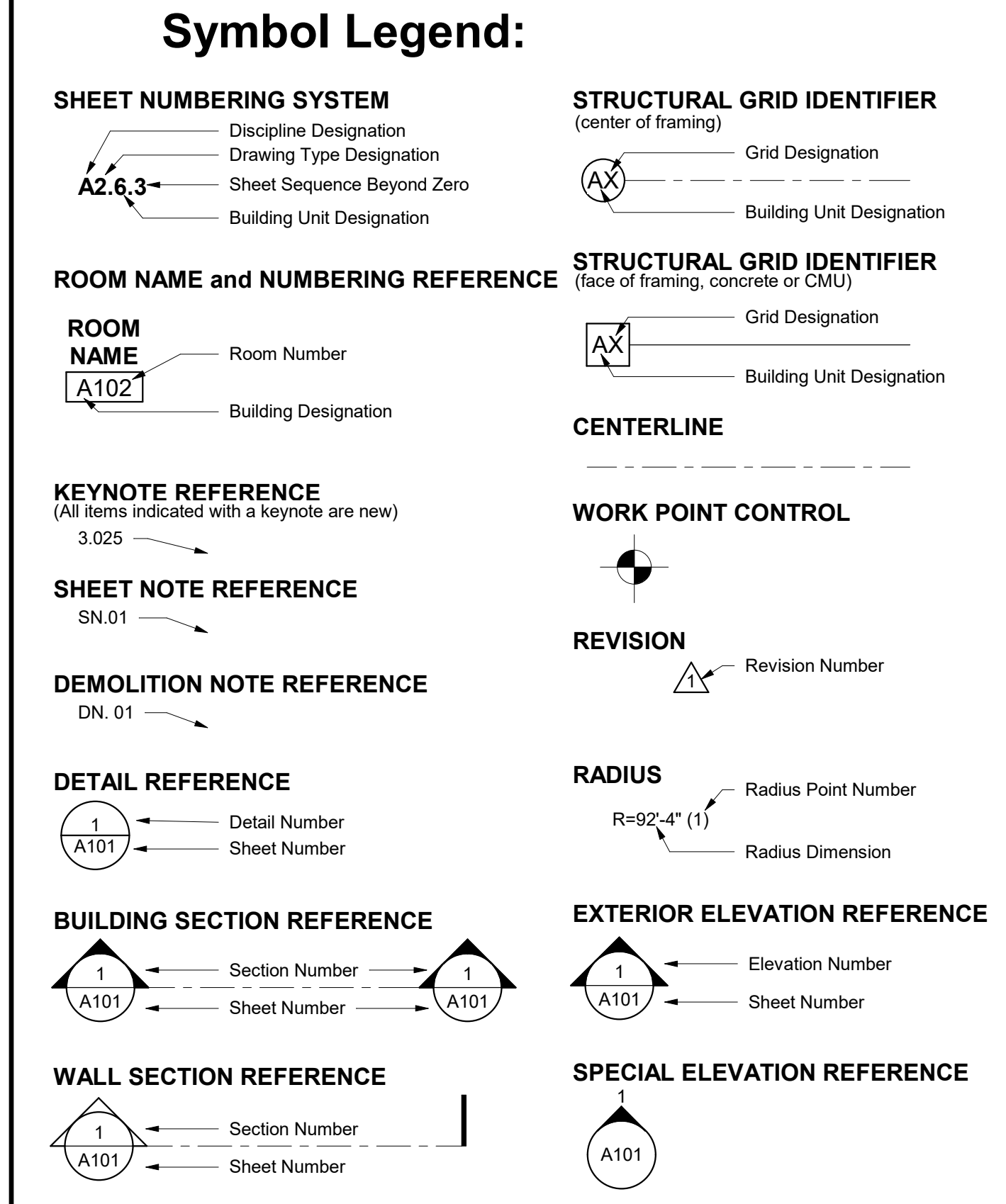


Abbreviations:		
A	Angle	F.R.P.
ACOUS.	Acoustical	FL
AD	Area Drain	FL.FLR.
A.V.	Audio Visual	FT.
AUTO.	Automatic	FTQ.
BM	Beam	FURR.
BLK	Block	GALV.
BLKG.	Blocking	G.I.
BO.	Board	G.S.M.
BOT	Bottom	G.W.H.
BUILDG.	Building	GA.
CAB.	Cabinet	GLU/LAM./G.L.B.
CATV	Cable T.V.	GR.
C.I.	Cast Iron	GYP.
CLKB.	Catch Basin	GYP.BD.
CLKG.	Caulking	H.DWR.
CNTR./CTR.	Center	HDWD.
CER.	Ceramic	HDR.
CB	Classroom	H.H.T.
CLR	Clear	H.M.
C.W.	Cold Water	HORZ.
COL.	Column	H.R.
CONC.	Concrete	HR.
C.M.U.	Concrete Masonry Unit	IN.
CONN.	Connection	INFO.
CONSTR.	Construction	INT.
C.J.	Construction Joint	INV.
CONT.	Continuous	JAN.
CONTR.	Contractor	JST.
CORR.	Corrosion	KP.
C.M.P.	Corrugated Metal Pipe	KIT.
C.Y.	Cubic Yard	LA.
CUST.	Custodian	LAM.
D	Deep/Depth	LAV.
DET / DTL	Detail	L.T.
DIA.	Diameter	L.W.
DIA / Ø	Diagonal	L.W.T.
DIM	Dimension	L.F.
DIM PT.	Dimension Point	M.B.
D.A.	Disable Accessible	DBL.
DW	Dishwasher	DN
DN	Down	DN
DBL	Double	DN
DN	Down	DN
DN	Down	DN
D.I.	Downspout	DN
DWG.	Drawing	DN
D.F.	Drinking Fountain	DN
EA	Each	DN
E	East	DN
ELEC.	Electrical	DN
E.W.C.	Electric Water Cooler	DN
E.W.H.	Electric Water Heater	DN
EL/ELEV.	Elevation	DN
EMER.	Emergency	DN
ENCL.	Enclosure	DN
EQ.	Equal	DN
(E)EXIST.	Existing	DN
EXP.	Expansion	DN
E.L.P.	Expansion Joint	DN
EXT.	Exterior	DN
F.O.C.	Face of Concrete/Curb	DN
F.O.F.	Face of Finish	DN
F.O.S.	Face of Studs	DN
FB	Fiberglass	DN
F.R.L.	Fiberglass Reinforced Laminate	DN
F.V.	Field Ventry	DN
FIN.	Finish	DN
F.F.E.	Finish Floor Elevation	DN
F.F.	Finish Grade	DN
F.A.	Fire Alarm	DN
F.E.C.	Fire Extinguisher	DN
FLASH.	Fire Extinguisher Cabinet	DN
FL.M.B.	Flat Head Machine Bolt	DN
F.H.M.S.	Flat Head Machine Screw	DN
F.H.W.S.	Flat Head Wood Screw	DN
F.L.FLR.	Floor	DN
F.D.	Floor Drain	DN
FT.	Foot/Foot	DN
FTQ.	Footing	DN
FND	Foundation	DN
FURR.	Furring	DN
GALV.	Galvanized	DN
G.I.	Galvanized Iron	DN
G.S.M.	Galvanized Sheet Metal	DN
G.W.H.	Gas Water Heater	DN
GA.	Gauge	DN
GLU/LAM./G.L.B.	Glu Laminated (Beam)	DN
GR.	Grade	DN
GYP.	Gypsum	DN
GYP.BD.	Gypsum Wallboard	DN
H.DWR.	Hardwood	DN
HDWD.	Hardwood	DN
HDR.	Header	DN
H.H.T.	Heating/Ventilating	DN
H.M.	Hollow Metal	DN
HORZ.	Horizontal	DN
H.R.	Hose Bib	DN
HR.	Hour (Fire Rating)	DN
IN.	Inch	DN
INFO.	Information	DN
INT.	Interior	DN
INV.	Invert	DN
JAN.	Janitor	DN
JST.	Joist	DN
KP.	Kickplate	DN
KIT.	Kitchen	DN
LA.	Laminate	DN
LAM.	Laminate	DN
LAV.	Lavatory	DN
L.T.	Light Weight	DN
L.F.	Lineal Feet	DN
M.B.	Machine Bolt	DN
MHL.	Manhole	DN
MFR.	Manufacturer	DN
M.O.	Masonry Opening	DN
MATL.	Material	DN
MAX.	Maximum	DN
MCH.	Mechanical	DN
MEB.	Membrane	DN
MTB.	Metal	DN
MEZ.	Mezzanine	DN
MIN.	Minimum	DN
MISC.	Miscellaneous	DN
M.P.	Multipurpose	DN
N	New	DN
NOM.	Normal	DN
N.	North	DN
N.I.C.	Not in Contract	DN
N.T.S.	Not to Scale	DN
NO.#	Number	DN
W.D.W.	Window	DN
W.G.	Wire Glass	DN
W/O	Without	DN
W.D.	Wood	DN
YD.	Yard	DN
Y.D.	Yard Drain	DN
O.F.D.I.	Owner Furnish, Owner Installed	DN
O.F.C.I.	Owner Furnish, Contractor Installed	DN
O.C.	On Center	DN
OPP.	Opposite	DN
O.H.	Opposite Hand	DN
O.D.	Outside Diameter	DN
O.H.W.S.	Over Head Wood Screw	DN
O.	Over	DN
OA.	Overall	DN



SHADE STRUCTURE AT EARL WARREN 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
 5420 LOWELL STREET
 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 RESTRIPING
 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) striping 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
C3.1	DETAILS AND SECTIONS
ARCHITECTURAL	
A1.1.0	SITE PLAN AND CODE INFORMATION
A1.1.1	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
TOTAL SHEET COUNT: 14	

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 1-5 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 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 NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBO IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, A CHANGE CONSTRUCTION DOCUMENT OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

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 4-341" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (3))

SIGNATURE _____ DATE _____

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

PRINT NAME _____
 C-14648 05/31/23
 LICENSE NUMBER EXPIRATION DATE

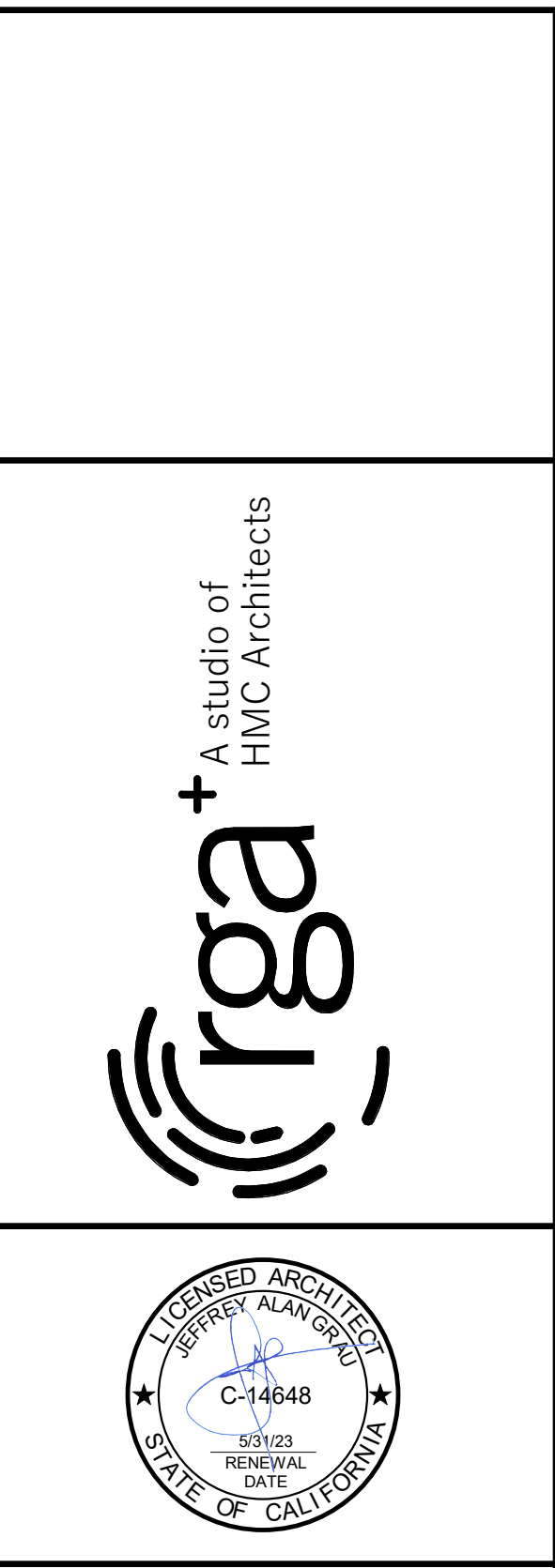
LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:

CIVIL, ELECTRICAL

Revision

Cover Sheet

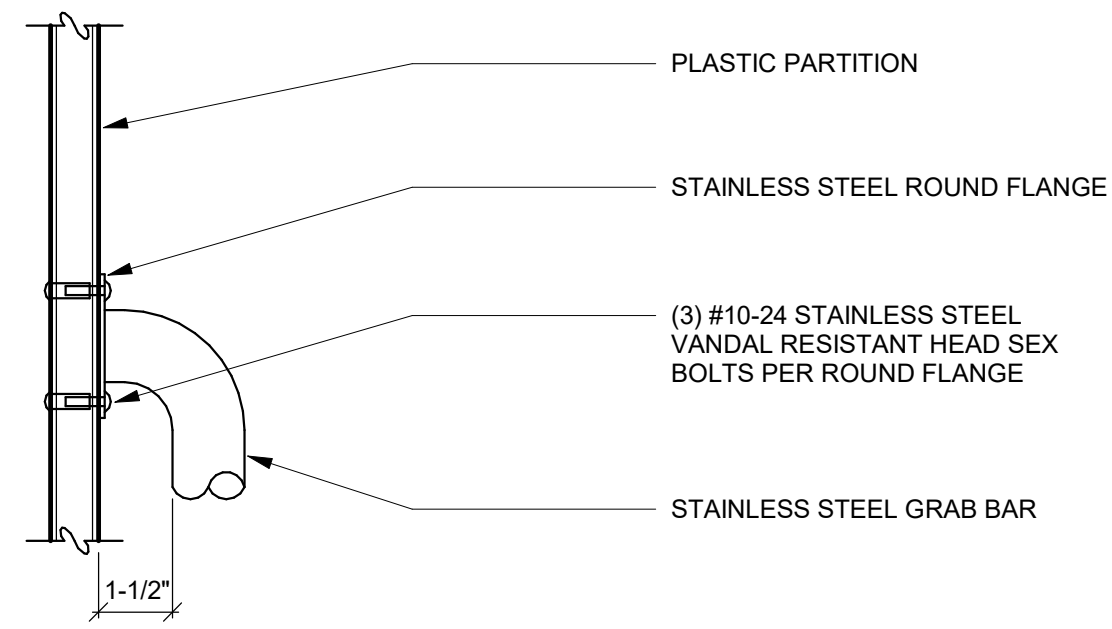
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 DATE: 3/22/2022
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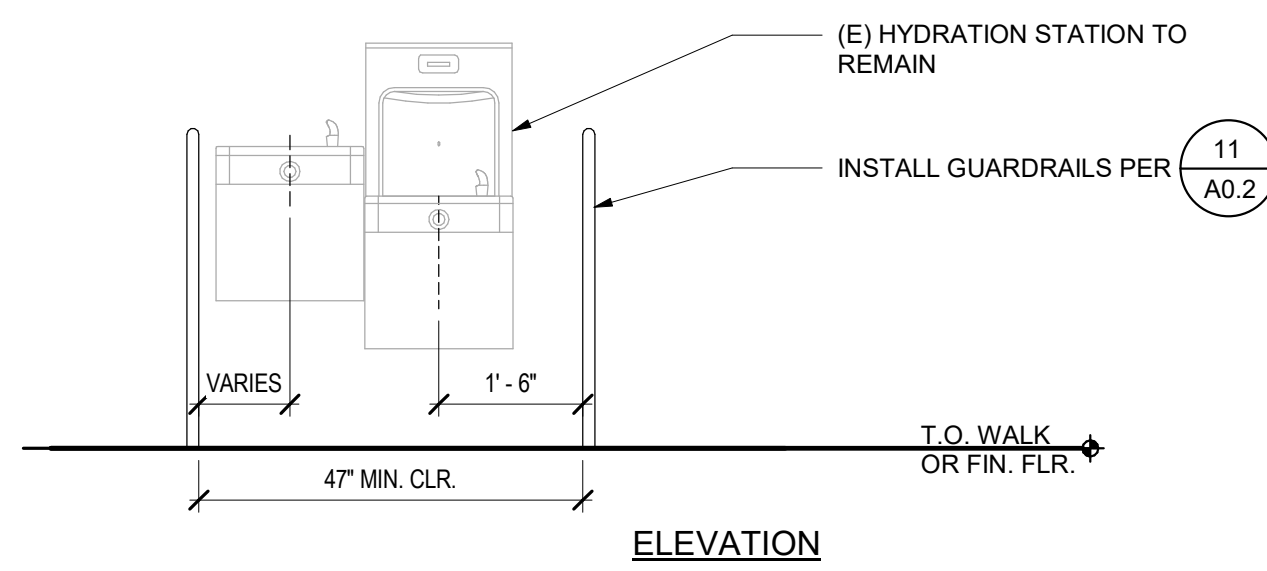
SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

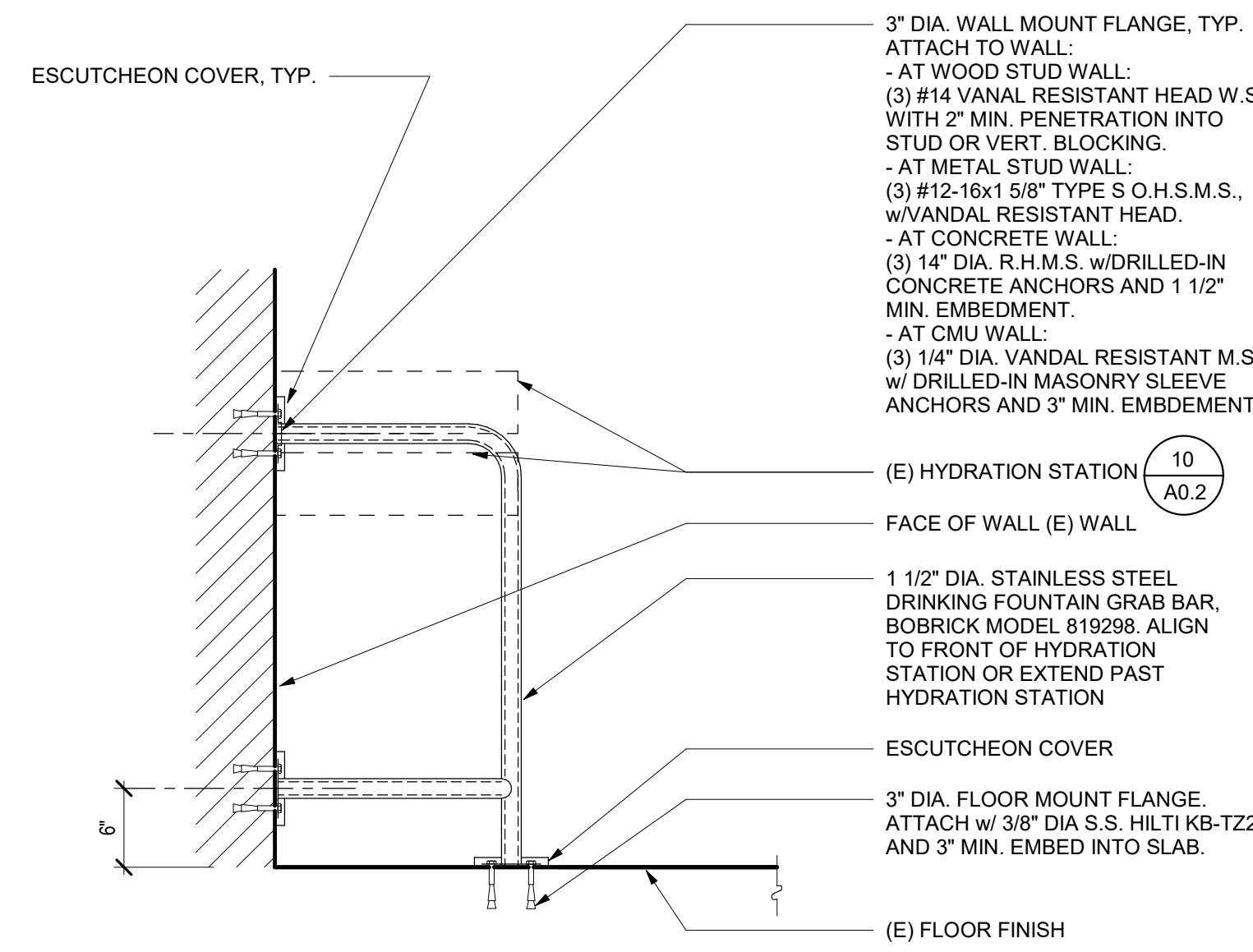
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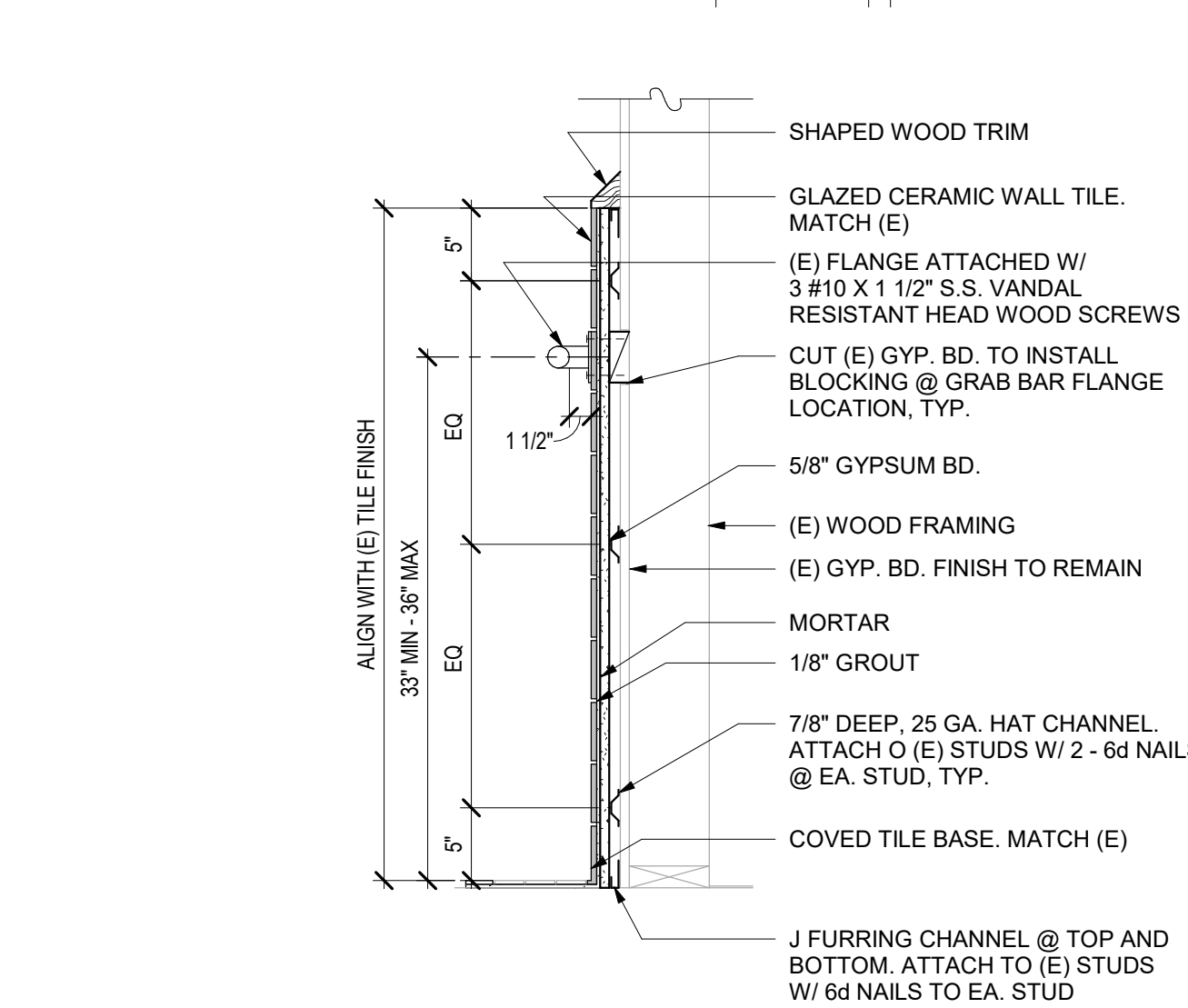
9 TYPICAL GRAB BAR AT PARTITIONS
 3" = 1'-0"



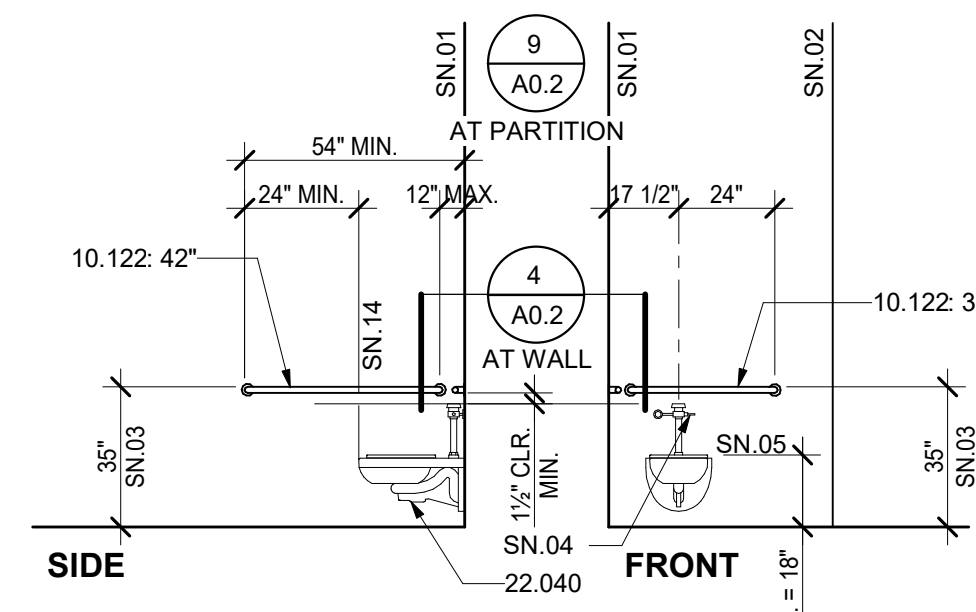
10 (E) HYDRATION STATION
 1/2" = 1'-0"



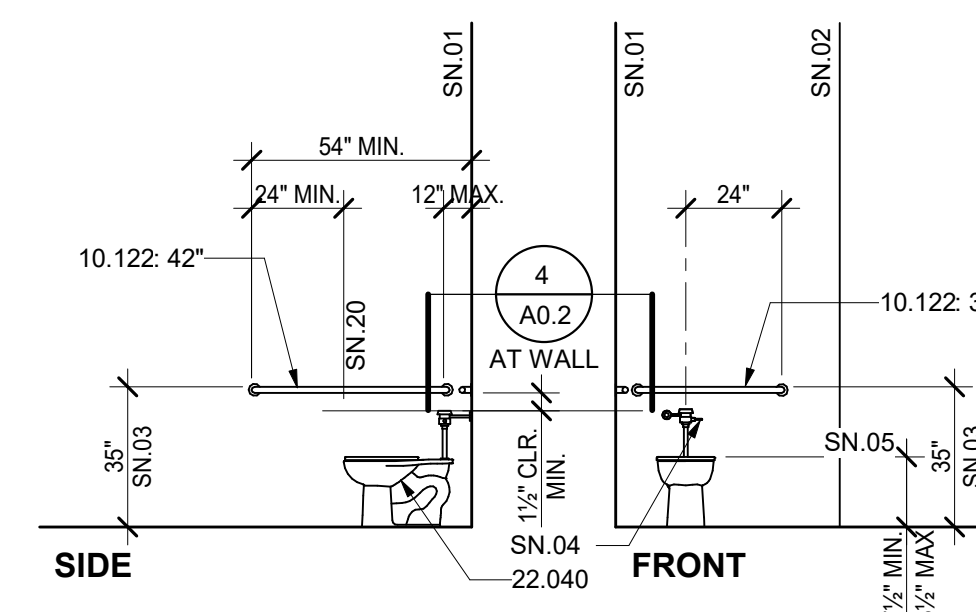
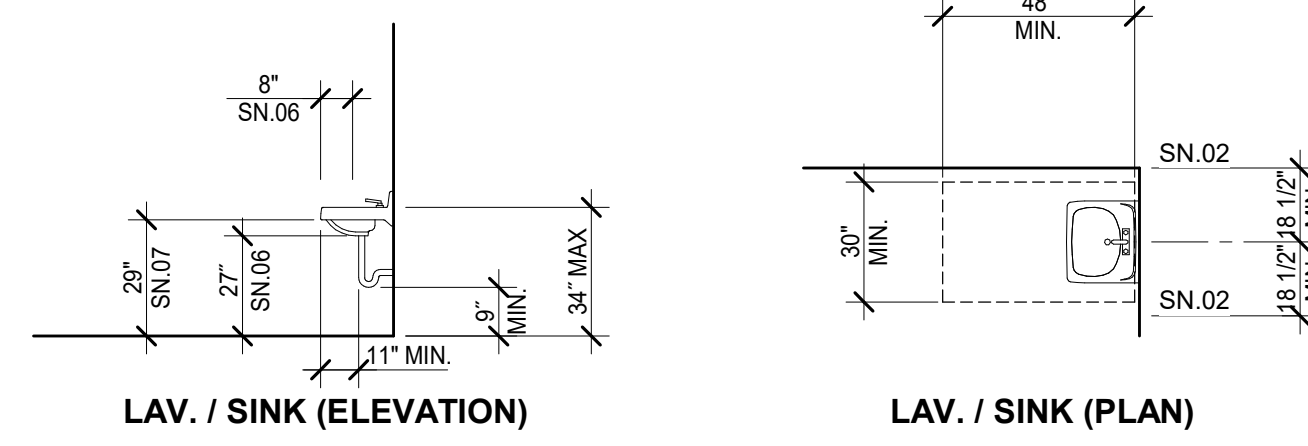
11 HYDRATION STATION GUARDRAIL
 1" = 1'-0"



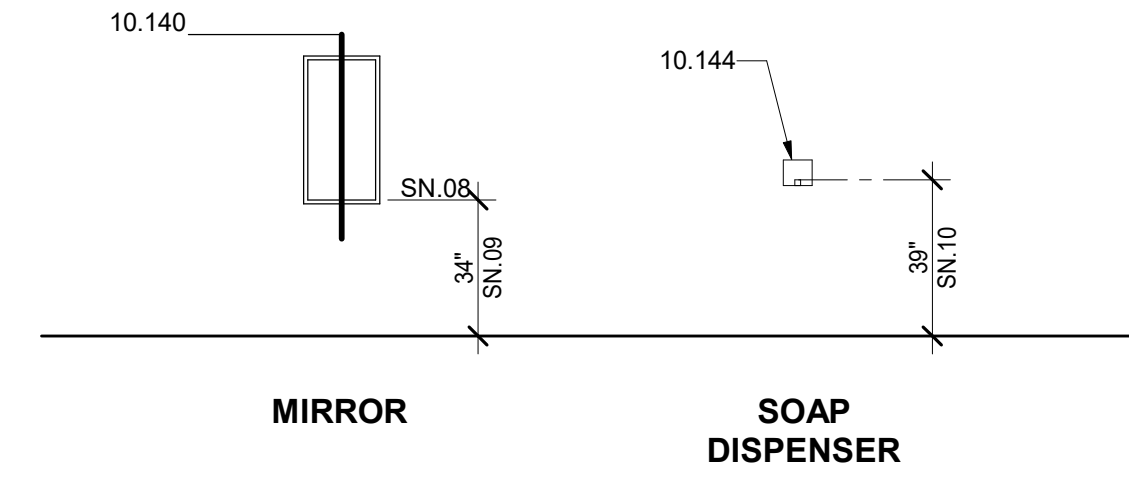
12 WALL FURRING DETAIL
 1" = 1'-0"



WALL MOUNTED WATER CLOSET



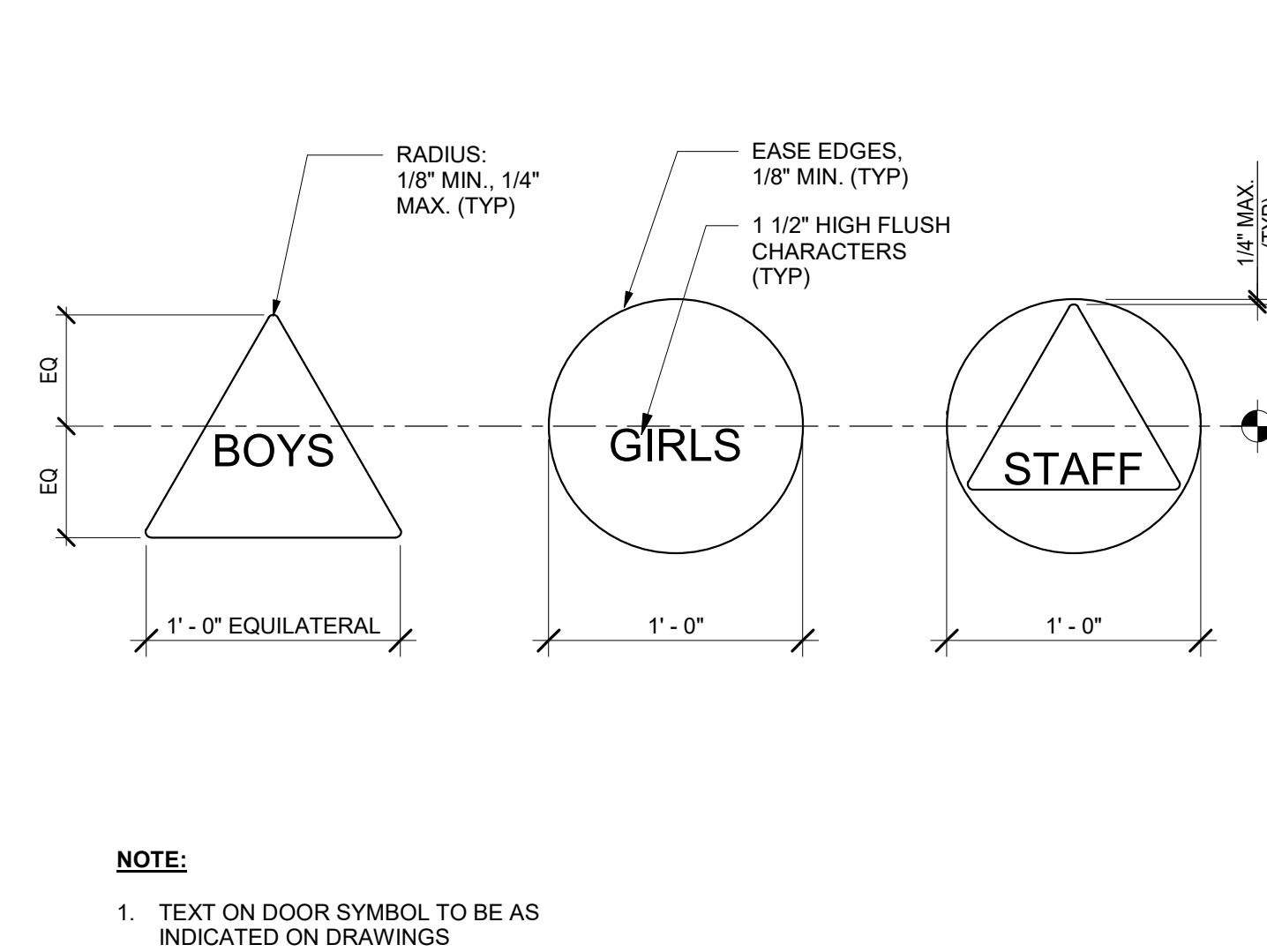
FLOOR MOUNTED WATER CLOSET



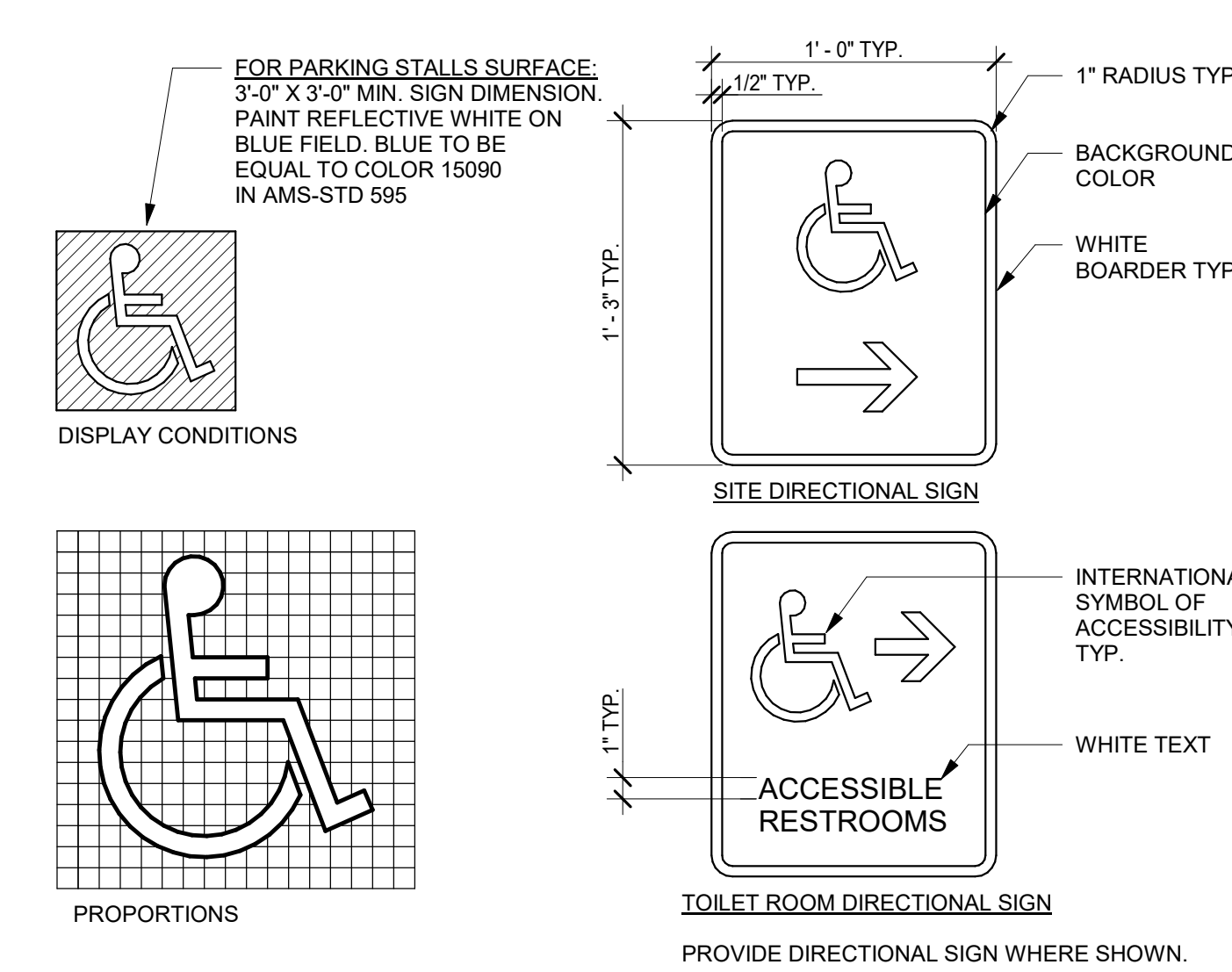
FIXTURE AND ACCESSORY HEIGHTS

FURNITURE EQUIPMENT HEIGHTS

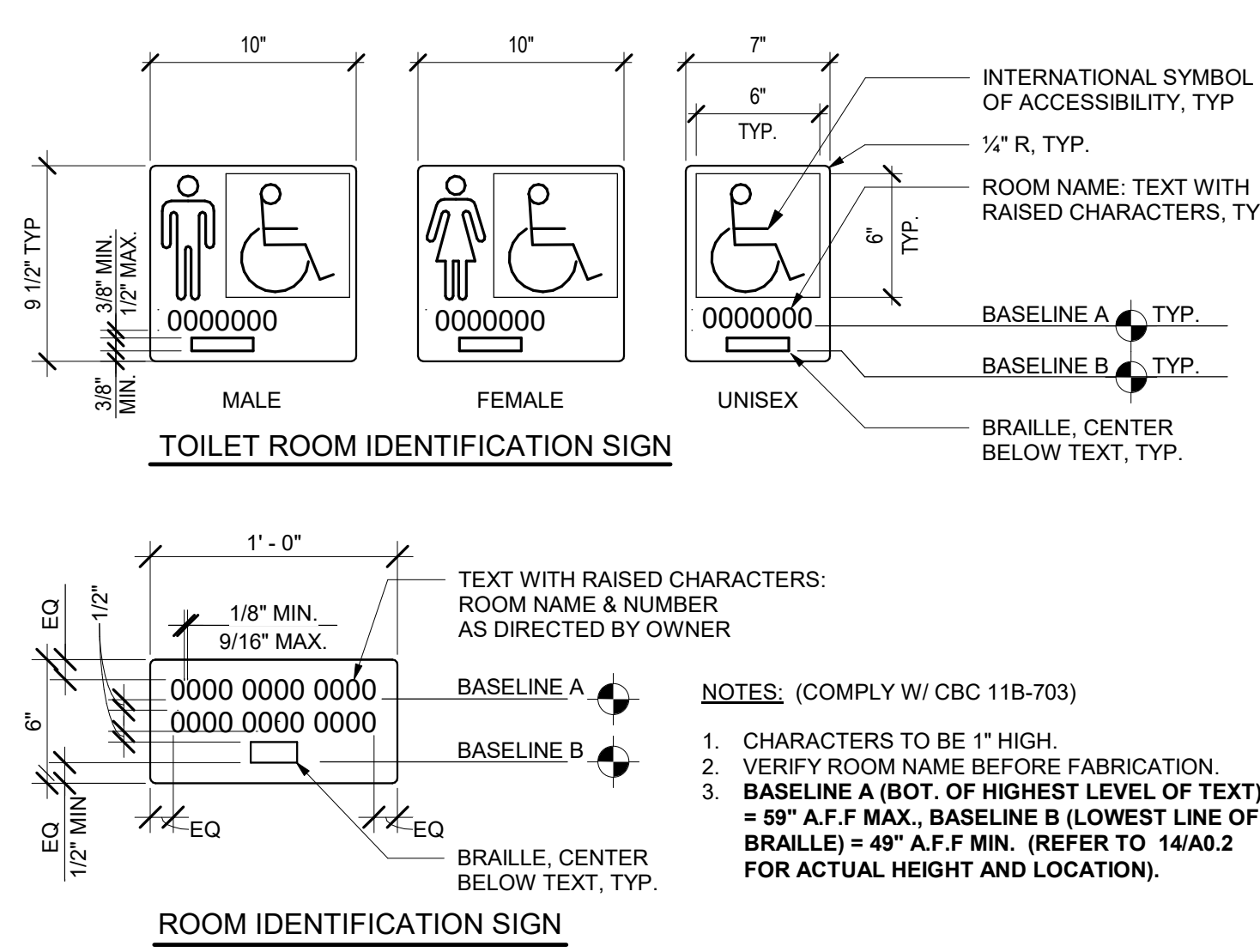
6 TYPICAL MOUNTING HEIGHTS AND DETAILS
 1/4" = 1'-0"



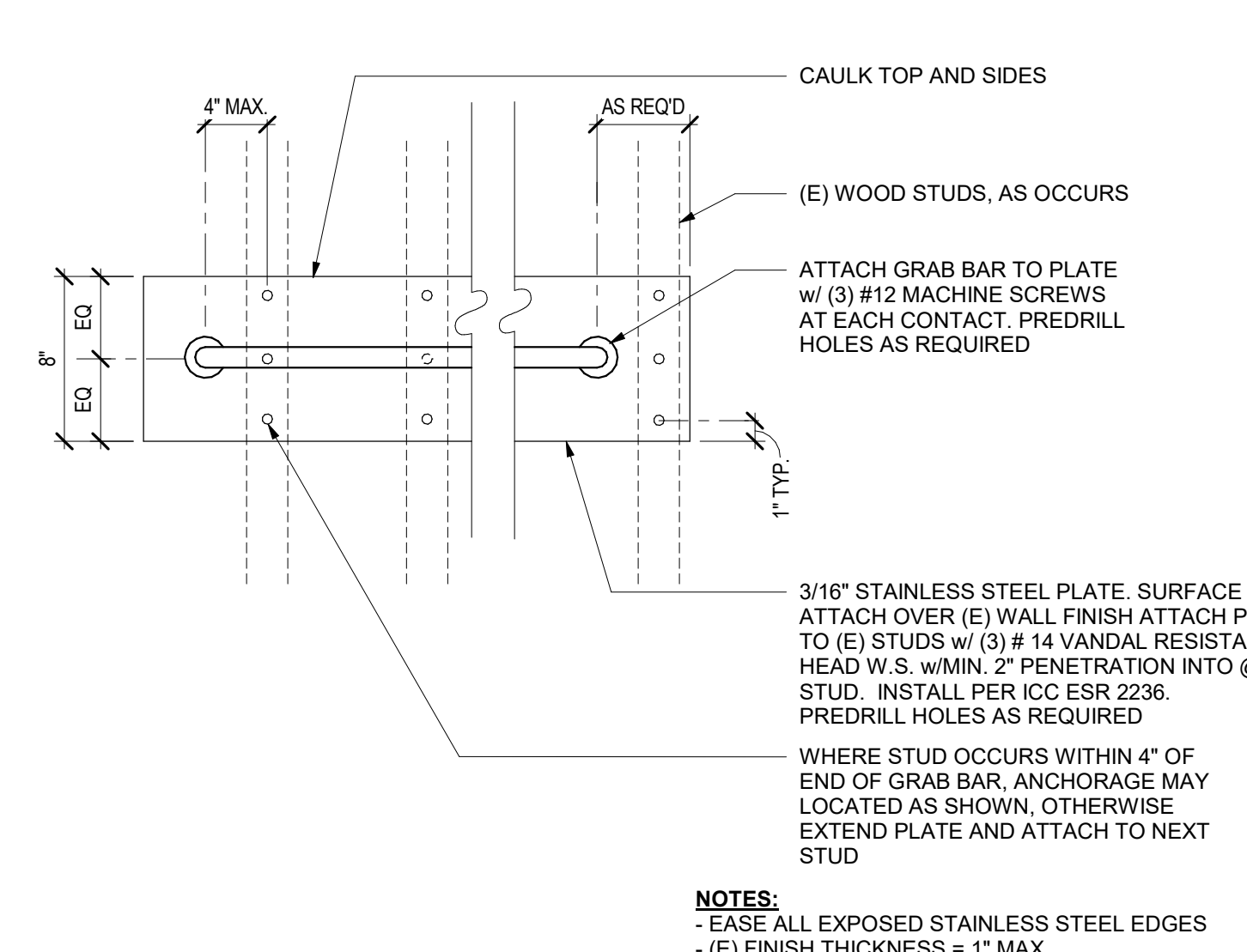
7 TOILET ROOM DOOR SYMBOLS
 1 1/2" = 1'-0"



3 SYMBOL OF ACCESSIBILITY
 NOT TO SCALE



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



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

GENERAL NOTES

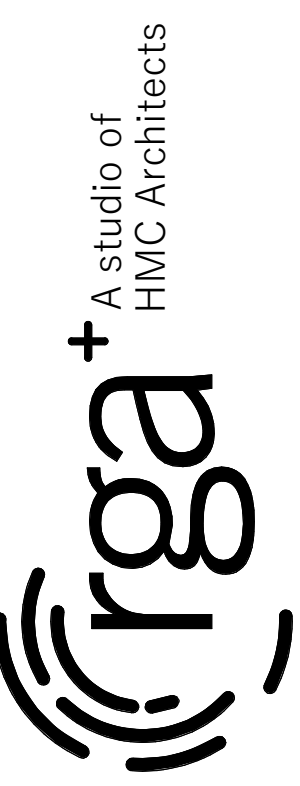
- TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
- ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
- HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

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
 10.144 TOILET ACCESSORY: SOAP DISPENSER
 22.040 WATER CLOSET



SHADE STRUCTURE AT EARL WARREN
 ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

TYPICAL MOUNTING HEIGHTS AND DETAILS

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: EARL WARREN SHADE STRUCTURE
 Project address: 5420 LOWELL STREET, SACRAMENTO, CA 95820

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

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED	
	Yes	No	N/A
4. Emergency vehicle access roadways do not meet CFC requirements	<input checked="" 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 checked="" 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 checked="" 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 checked="" 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

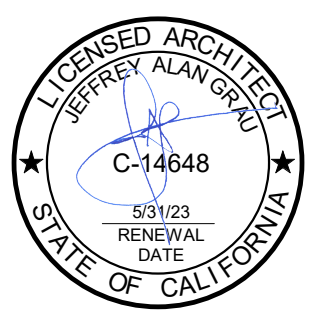
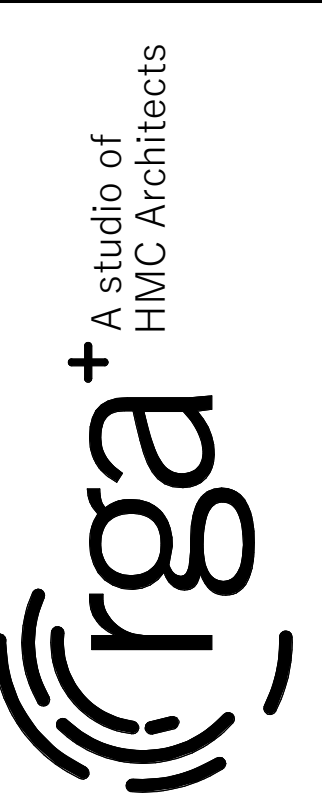
- PROPERTY LINE
- [X] UNIT DESIGNATION SHADE STRUCTURE
- [Hatched] UNIT DESIGNATION EXISTING BUILDINGS
- [Grid] CONCRETE WALK / PAVING
- [Dotted] ASPHALT CONCRETE PAVING
- [Dashed] (E) EMERGENCY ACCESS LANE
- [Dotted] (E) CHAIN LINK FENCE
- [Symbol] (E) FIRE HYDRANT (NTS)

SHEET NOTES

- SN.01 (E) FIRE HYDRANT
- SN.02 (E) RR 10'-0" WIDE GATES WITH KNOX LOCK BOX

BUILDING DESIGNATIONS

- UNIT A - ADMINISTRATION AND MULTIPURPOSE
- UNIT B - CLASSROOMS
- UNIT C - CLASSROOMS
- UNIT D - CLASSROOMS
- UNIT E - CLASSROOMS
- UNIT F - CLASSROOMS
- UNIT G - CLASSROOMS
- UNIT H - CLASSROOMS
- UNITS - CLASSROOMS J1-J5
- UNITS - CLASSROOMS K1-K3



SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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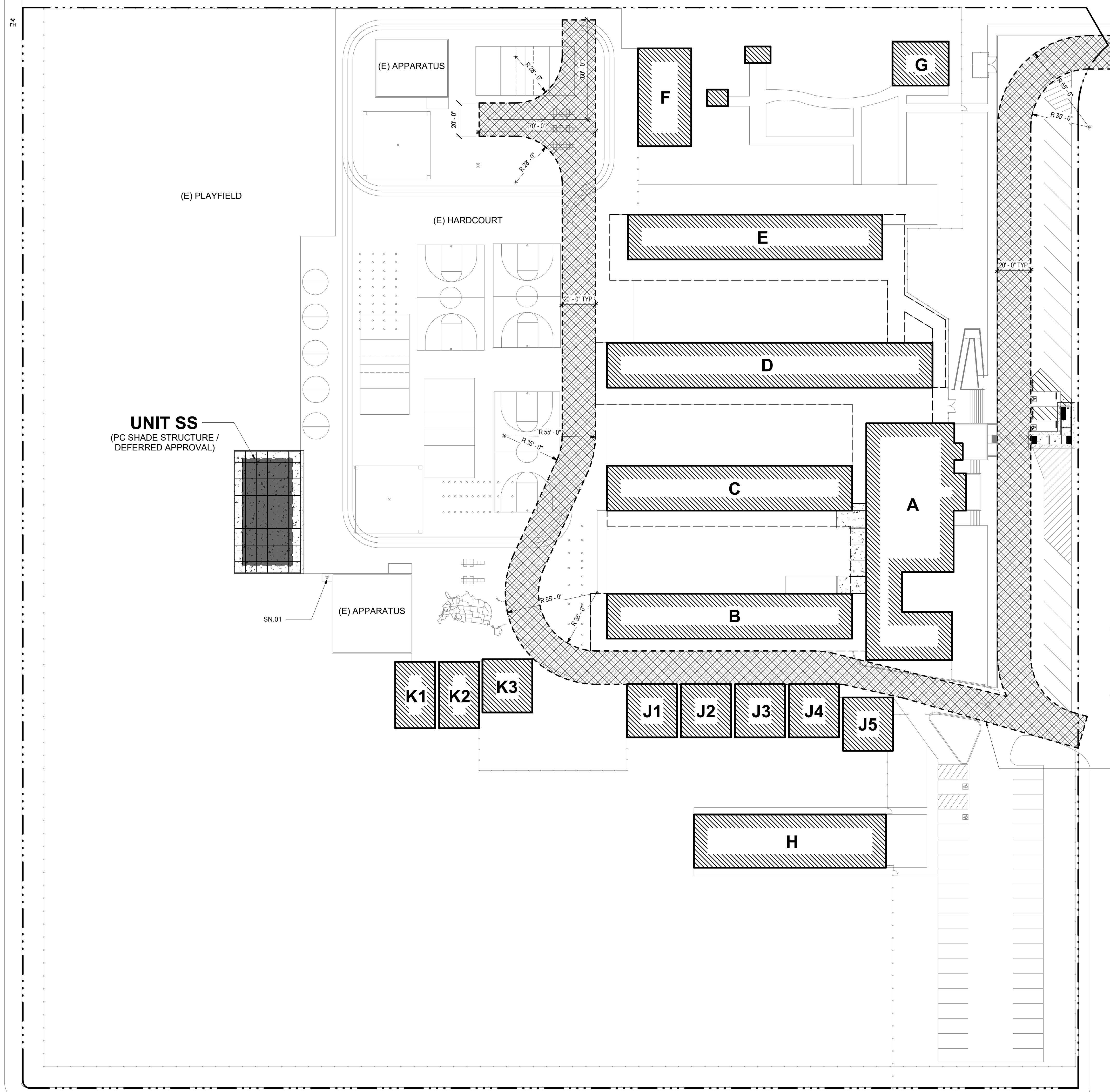
LOCAL FIRE AUTHORITY SITE PLAN

SEE OTHER SHEETS FOR CONSTRUCTION

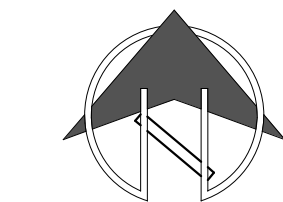
THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO. 1504.13
 DATE: 3/22/2022
 SHEET

A0.7



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



C:\Users\mcd\Documents\2022\13_EarlWarren_Color_A0.7.rvt

EXISTING TOPOGRAPHY

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

TBM LIST

Table with 5 columns: NUMBER, DESCRIPTION, NORTHING, EASTING, ELEV. Lists 22 benchmark points with coordinates and elevations.

CIVIL ABBREVIATIONS AND LEGEND

ABBREVIATIONS

- AGGREGATE BASE
ASPHALTIC CONCRETE
AREA DRAIN
ASSESSOR'S PARCEL NUMBER
ARV AIR RELIEF VALVE
AGGREGATE SUB-BASE
BLOW-OFF VALVE
BUTTERFLY VALVE
BACK OF WALK
CENTERLINE
CATCH BASIN
CLASS
CORRUGATED METAL PIPE
CABLE TELEVISION
CLEANOUT
COMMUNICATION
CONC.
CONCRETE
CONSTRUCT
CURB RETURN
CONCRETE UTILITY ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
DOUBLE CHECK VALVE
DOUBLE DETECTOR CHECK VALVE
DECOMPOSED GRANITE
DROP INLET
DIAMETER
DUCTILE IRON PIPE
DRAWING
DOWNPOUT
ELECTRIC
EDGE OF PAVEMENT
EASEMENT
FIRE SERVICE LINE
FIRE DEPARTMENT CONNECTION
SANITARY SEWER FORCE MAIN
FINISHED FLOOR ELEVATION
FIRE HYDRANT
GRATE ELEVATION
GRADE ELEVATION
GATE VALVE
HOSE BIBB
HEADER BOARD
HIGH DENSITY POLYETHYLENE PIPE
HIGH POINT
PIPE INVERT ELEVATION
JOINT UTILITY POLE
LINEAL FEET
LIP OF GUTTER
LEFT
MOWSTRIP
NOT TO SCALE
OVERHEAD
PORTLAND CEMENT CONCRETE
PLANTER DRAIN
POST INDICATOR VALVE
PROPERTY LINE
POWER POLE
PUBLIC UTILITY EASEMENT
POLYVINYL CHLORIDE
REINFORCED CONCRETE PIPE
RADIUS
MANHOLE RIM ELEVATION (SOLID COVER)
REDUCED PRESSURE BACKFLOW PREVENTER
RIGHT OF WAY
SCHEDULE
STORM DRAIN
STORM DRAIN MANHOLE
SUBGRADE ELEVATION
SANITARY SEWER
SANITARY SEWER MANHOLE
STANDARD
SIDEWALK
TELEPHONE
TOP OF CURB
TRENCH DRAIN
TRENCH DRAIN CATCH BASIN
TELEPHONE POLE
TOP OF RAMP ELEVATION
TOP OF RETAINING WALL
TOP OF SEAT WALL
TOP OF WALK ELEVATION
UTILITY
UNDERGROUND
UNLESS OTHERWISE NOTED
VITRIFIED CLAY PIPE
WATER
WITH
WITHOUT
WATER VALVE

LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

- STORM DRAIN LINE (SIZE AND FLOW SHOWN)
STORM DRAIN MANHOLE (SOMH)
CATCH BASIN (CB)
DROP INLET (DI)
AREA DRAIN (AD)
PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
STORM DRAIN CLEANOUT
ELEVATION
FINISHED FLOOR ELEVATION
BUILDING PAD ELEVATION
CONCRETE SIDEWALK
CONCRETE SIDEWALK
DRAINAGE FLOW
SWALE
SLOPE
TREE TO BE REMOVED
RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS:

- SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
SANITARY SEWER MANHOLE (SSMH)
SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

- WATER LINE & SIZE
FIRE LINE & SIZE
DOMESTIC WATER LINE & SIZE
RECLAIMED WATER LINE & SIZE
IRRIGATION SERVICE LINE & SIZE
NON POTABLE WATER LINE & SIZE
FIRE SPRINKLER SERVICE LINE & SIZE
GATE VALVE
WATER METER
FIRE HYDRANT ASSEMBLY
FIRE DEPARTMENT CONNECTION
DETECTOR CHECK VALVE
REDUCED PRESSURE BACKFLOW PREVENTER
BUTTERFLY VALVE
AIR RELEASE VALVE + SIZE
BLOW-OFF VALVE + SIZE
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

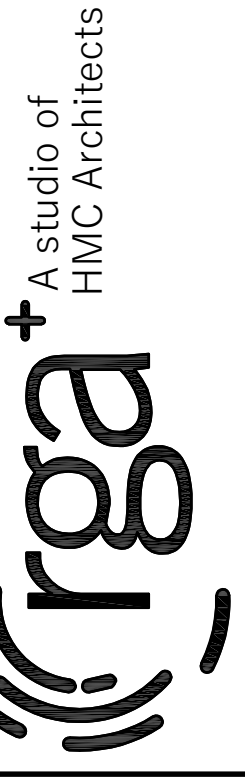
WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED 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 EDGE IS OBTAINED. IF 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 ON SITE 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 "TEE" 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, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS 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.



SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL

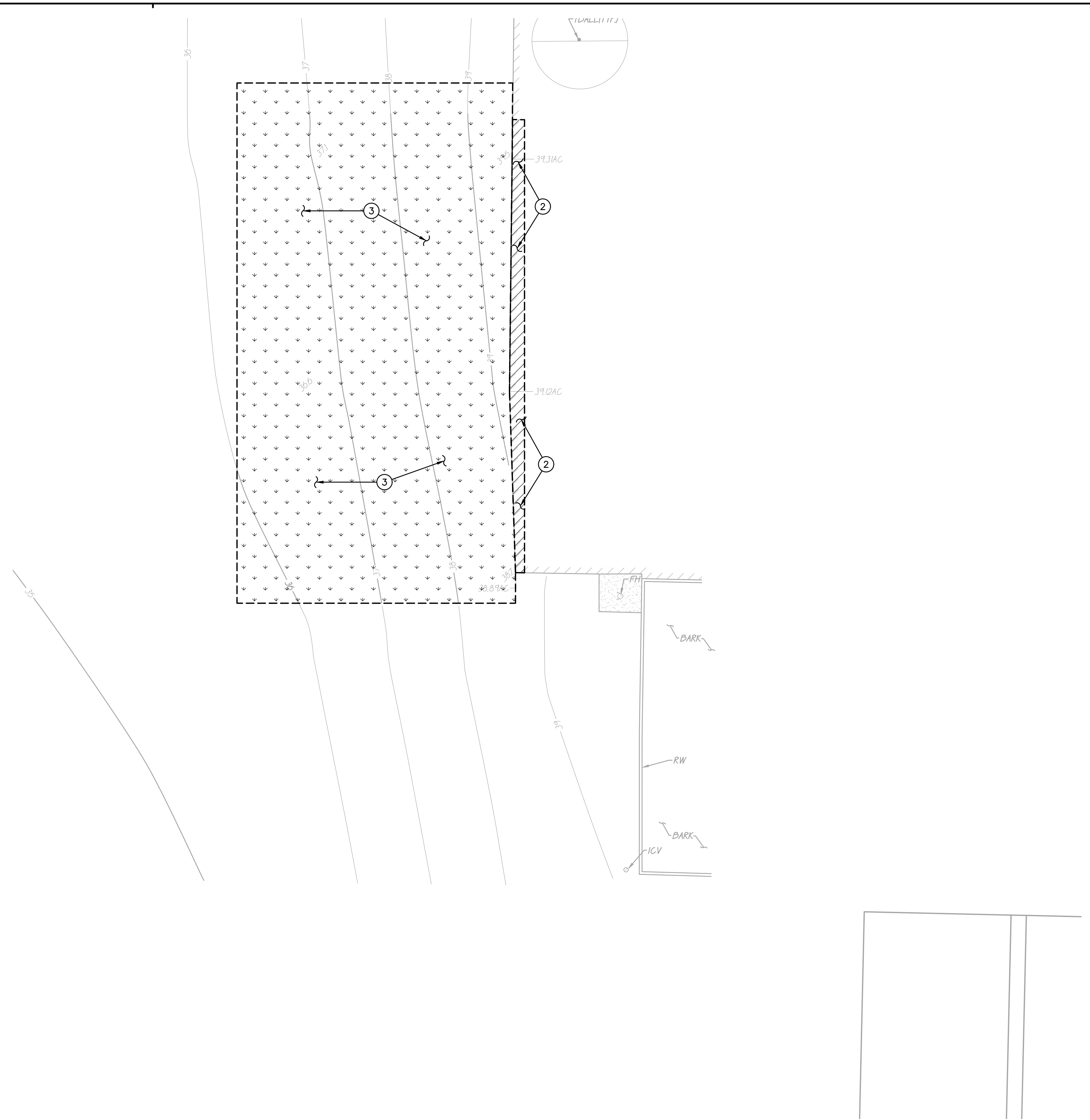
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

CIVIL SHEET INDEX

- C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
C.1 DEMOLITION PLAN
C2.1 GRADING AND PAVING PLAN
C3.1 DETAILS AND SECTIONS

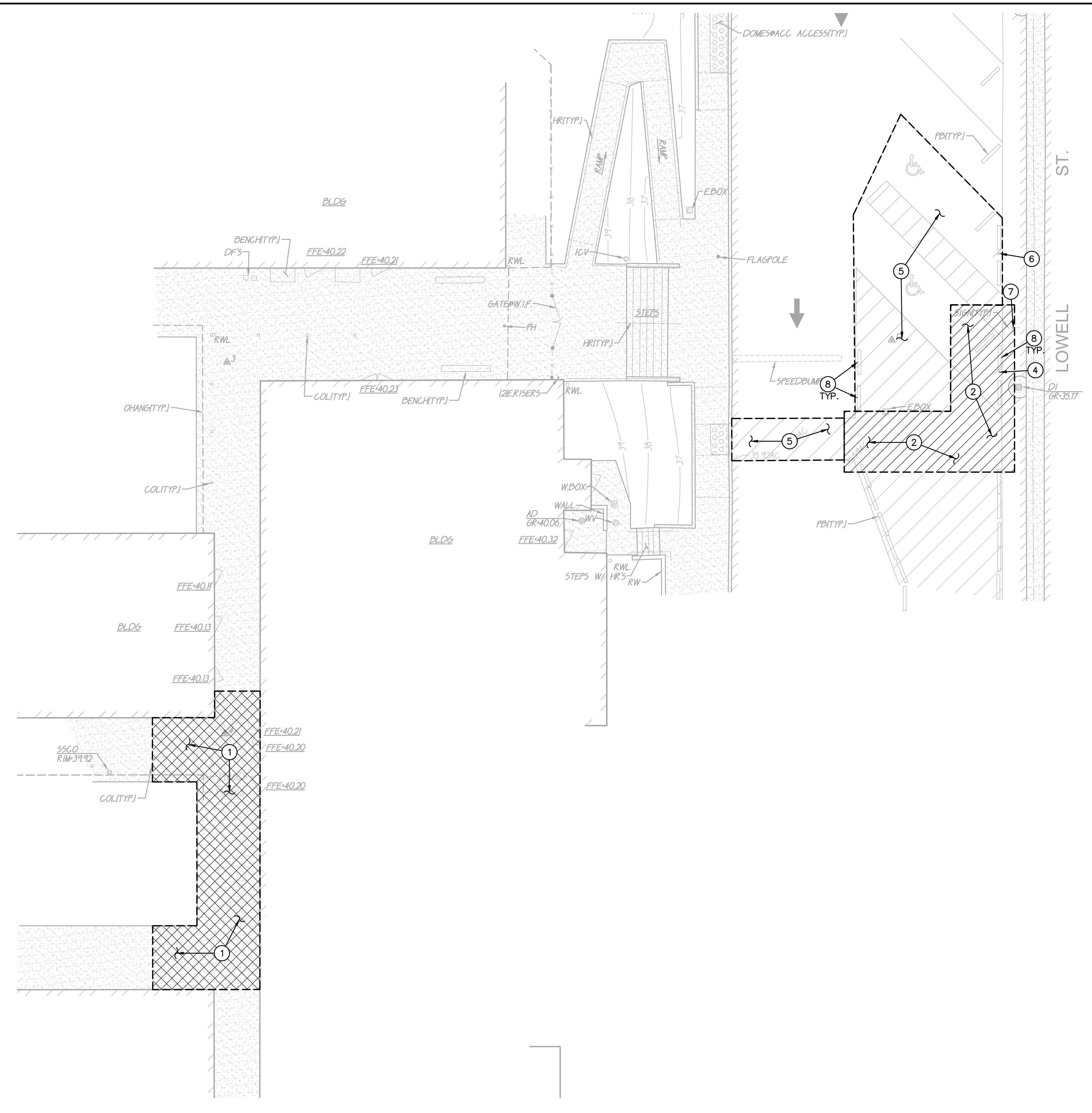
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CIVIL GENERAL NOTES AND ABBREVIATIONS



DEMOLITION PLAN - SHADE STRUCTURE

SCALE: 1"=10'

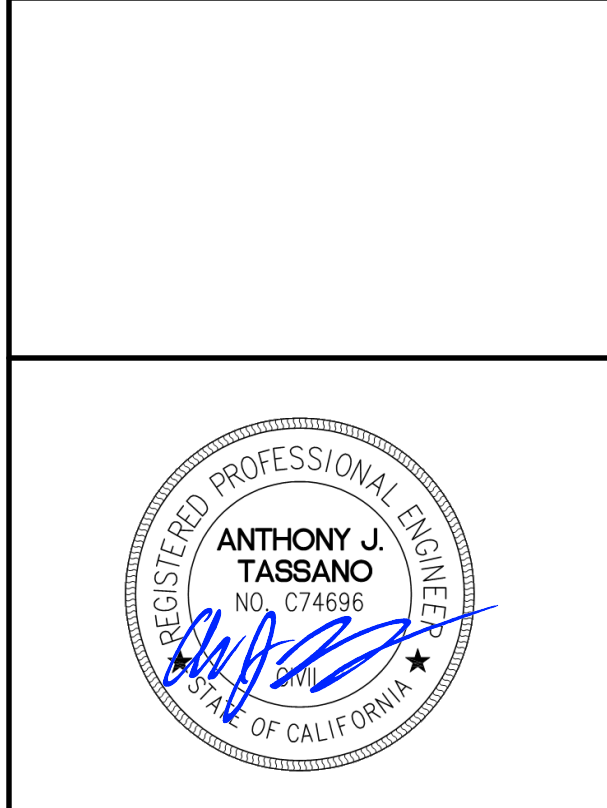
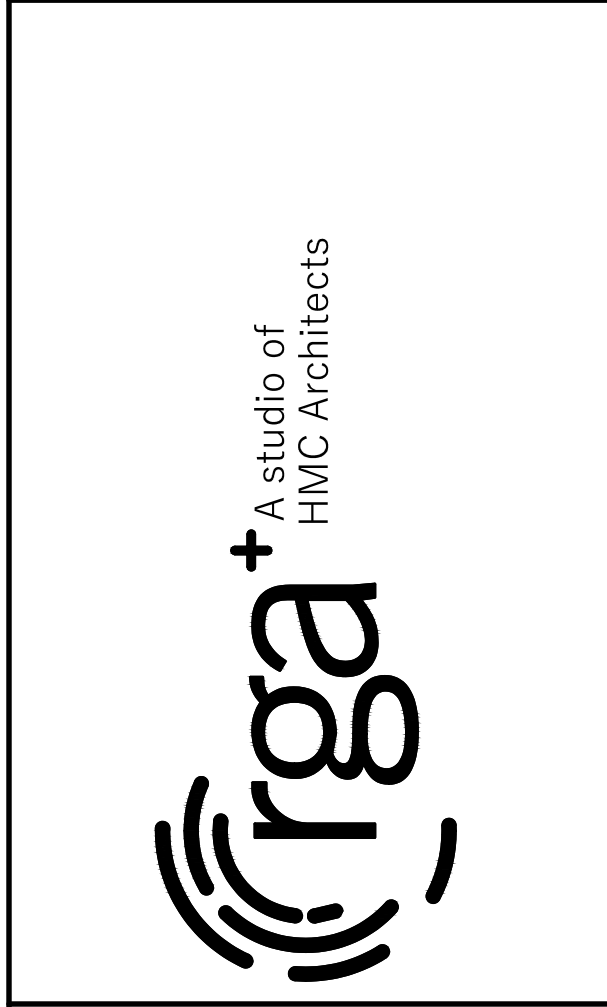
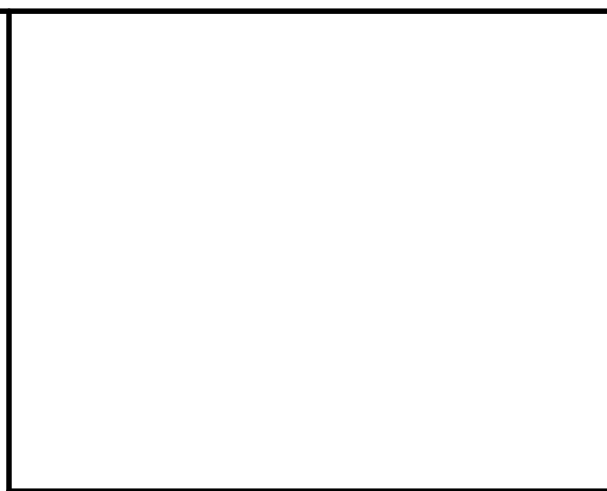
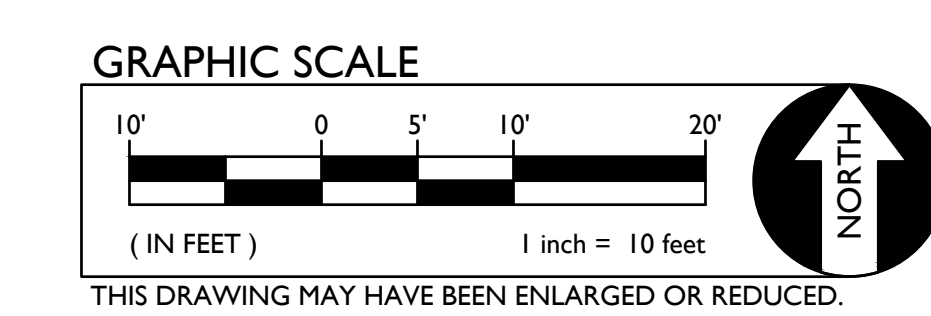


DEMOLITION PLAN - ACCESSIBLE PATH OF TRAVEL

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 SIGN, POST AND ASSOCIATED FOOTINGS.
5. BLACK OUT EXISTING STRIPING.
6. CUT POST FLUSH WITH PAVEMENT AND REMOVE. GROUT FILL POST HOLE.
7. EXISTING SIGN TO REMAIN.
8. REMOVE AND SALVAGE EXISTING PARKING BUMPER.

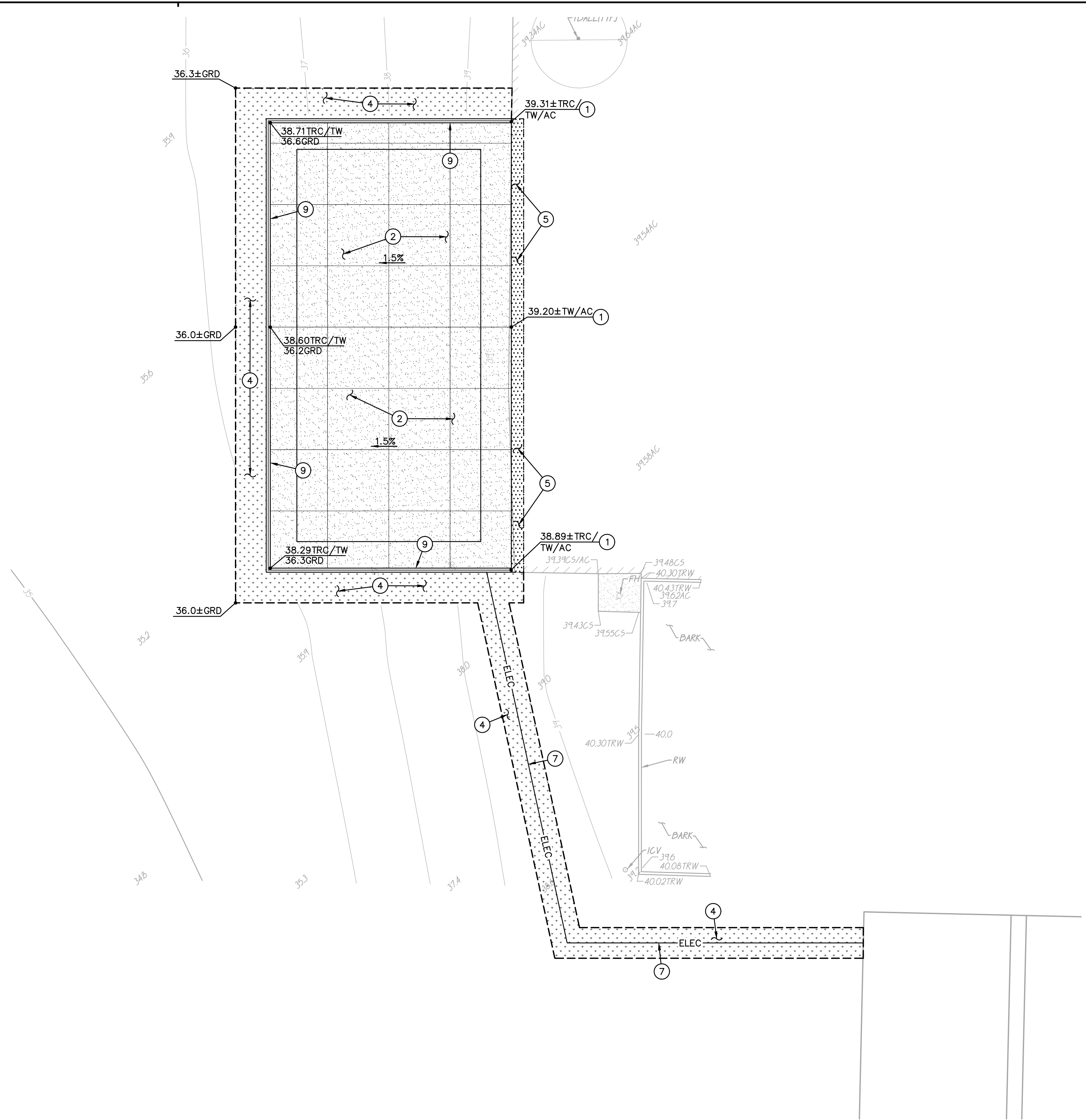


WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

SHADE STRUCTURE AT EARL WARREN
ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

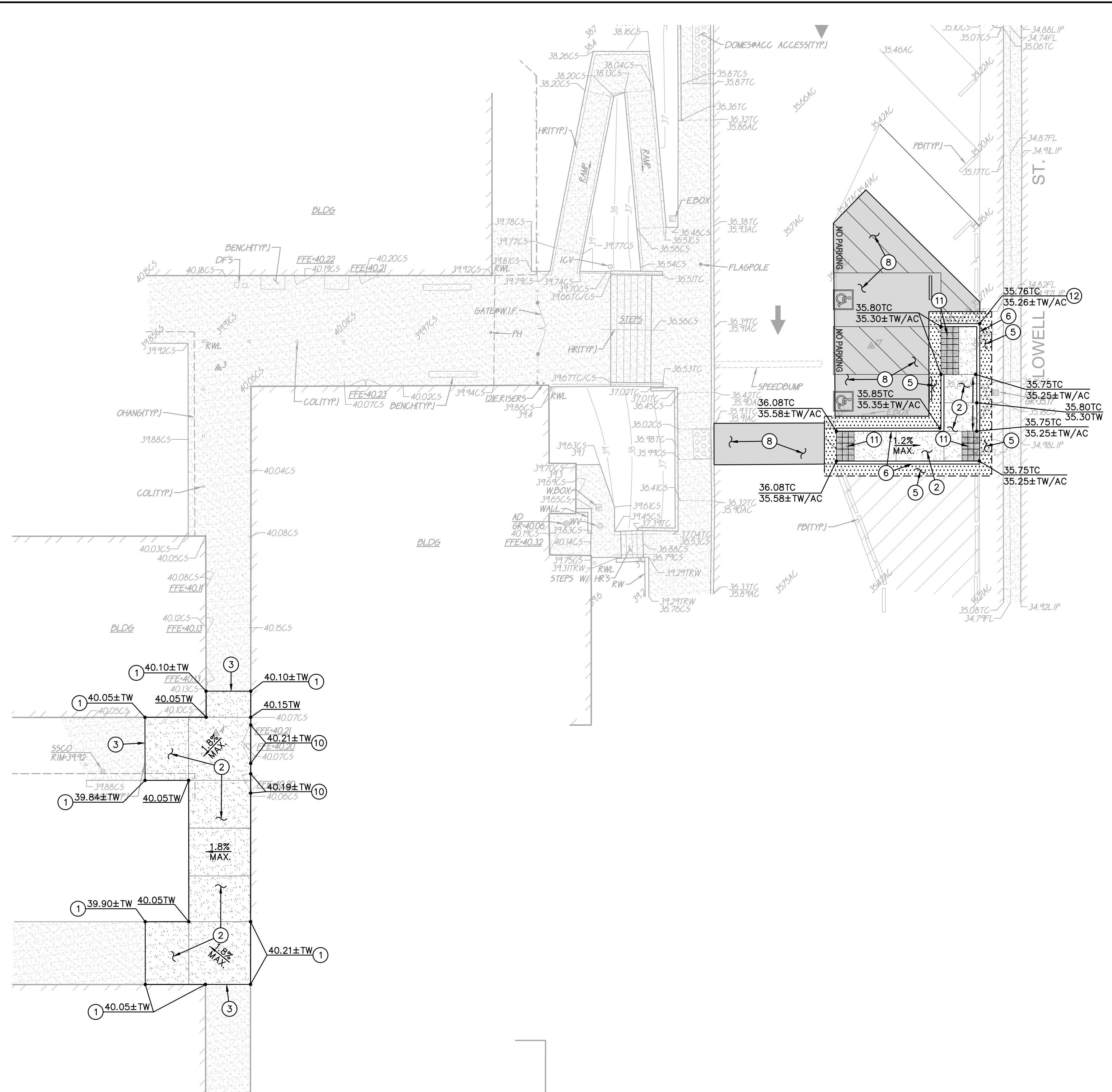
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DEMOLITION PLAN
PROJECT NO. 1504.13
DATE: 3/21/2022
SHEET C1.1



GRADING AND PAVING PLAN - SHADE STRUCTURE

SCALE: 1"=10'



GRADING AND PAVING PLAN - ACCESSIBLE PATH OF TRAVEL

SCALE: 1"=10'

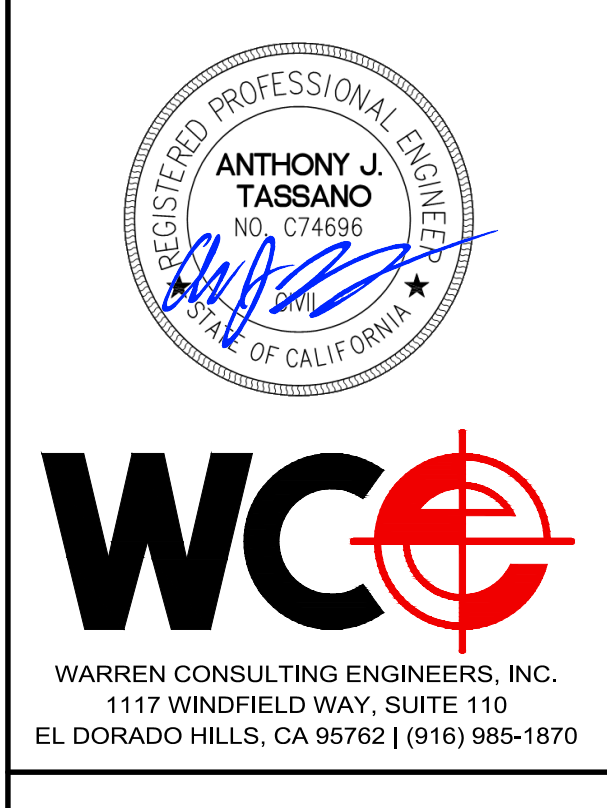
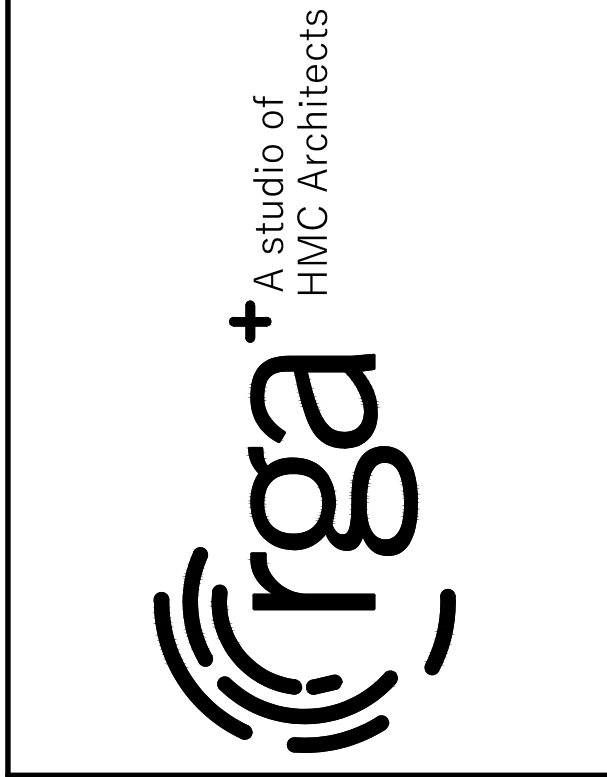
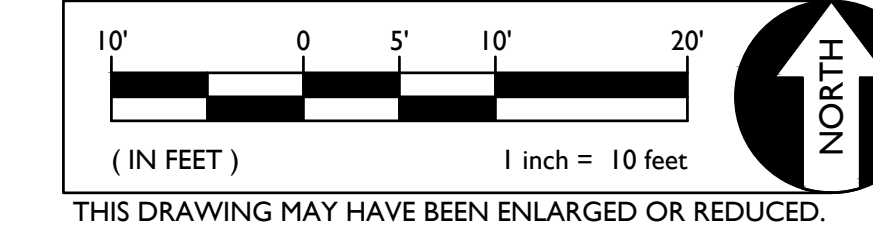
GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. CONSTRUCT CONCRETE SIDEWALK PER PLACE 5"PC WITH #4 REBAR AT 24" O.C.E.W. OVER 12" CL2 AGGREGATE BASE ON COMPACTED SUBGRADE. (1) C3.1
3. DOWEL INTO EXISTING CONCRETE PER (1) C3.1
4. 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.
5. PLACE 3"AC OVER 12"AB ON COMPACTED SUBGRADE.
6. CONSTRUCT CONCRETE CURB PER (2) C3.1
7. REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.
8. CRACK FILL AND PLACE TWO (2) APPLICATIONS OF SEAL COAT PRIOR TO STRIPING.
9. CONSTRUCT 8" WIDE RETAINING CURB WITH GUARDRAIL PER (3) C3.1
10. PROPOSED SIDEWALK ELEVATION SHALL MEET FLUSH WITH EXISTING FINISH FLOOR.
11. PLACE TRUNCATED DOMES PER (4) C3.1
12. PLACE 6" OPENING IN CURB TO ALLEVIATE DRAINAGE.

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.

GRAPHIC SCALE

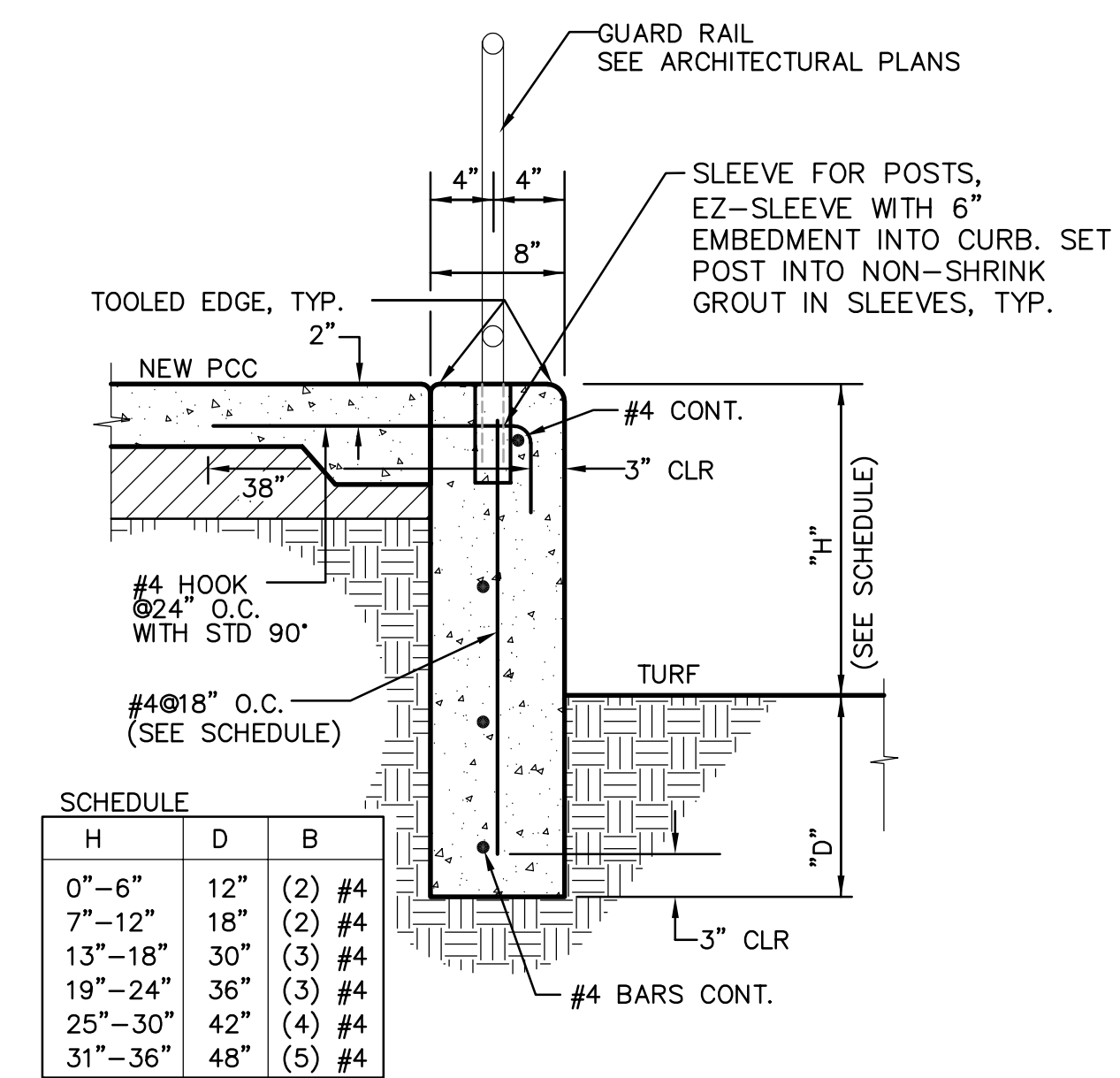


SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

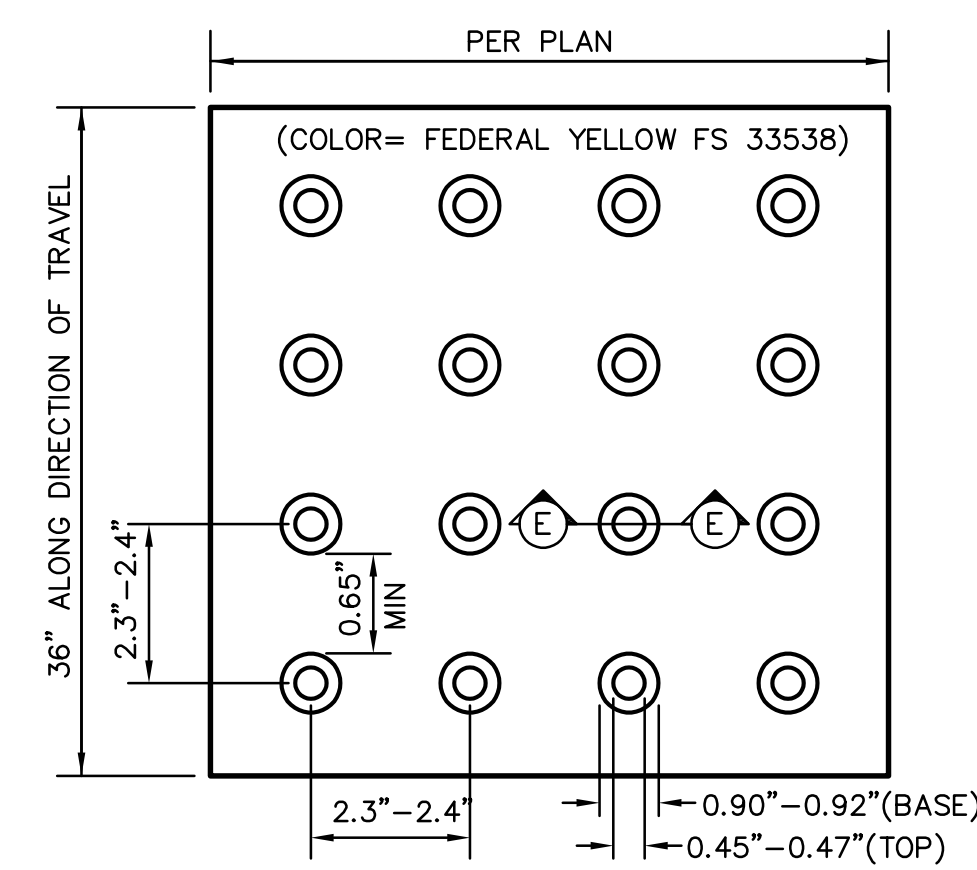
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GRADING AND PAVING PLAN

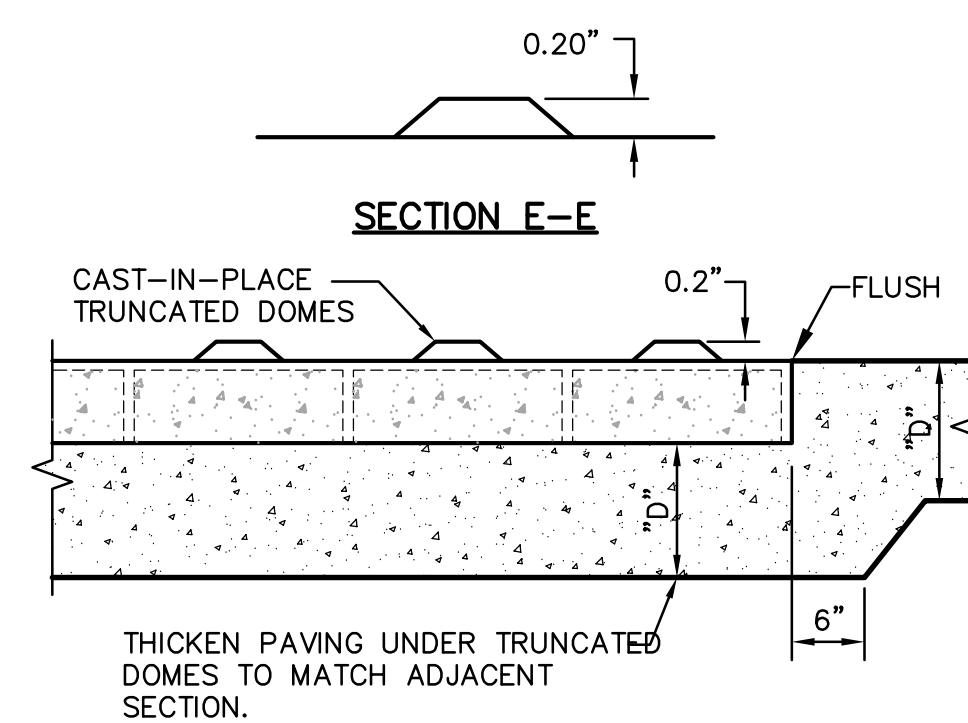
PROJECT NO. 1504.13
DATE: 3/21/2022
SHEET C2.1



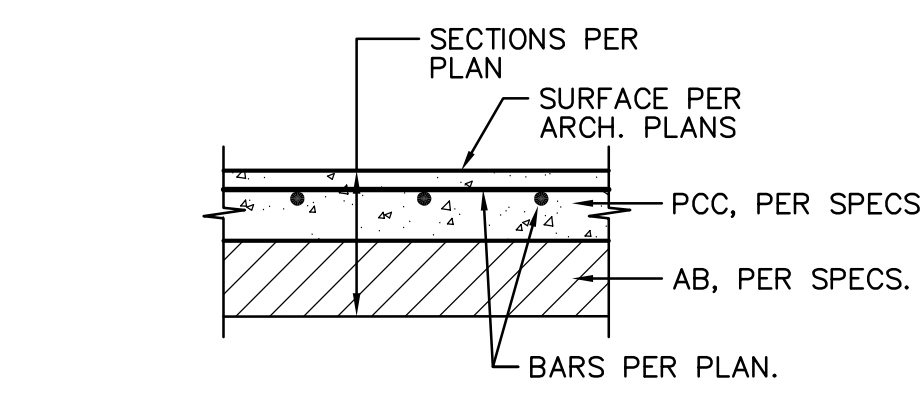
3 8" RETAINING CURB
NO SCALE



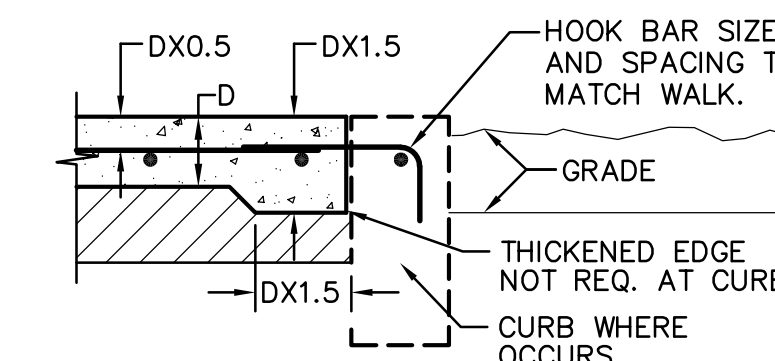
1 CONCRETE SIDEWALK
NO SCALE



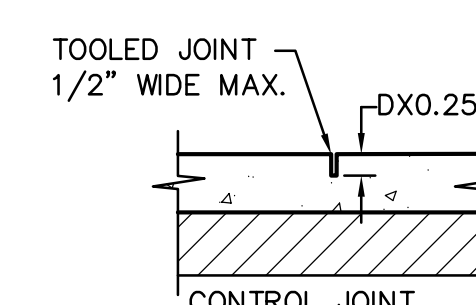
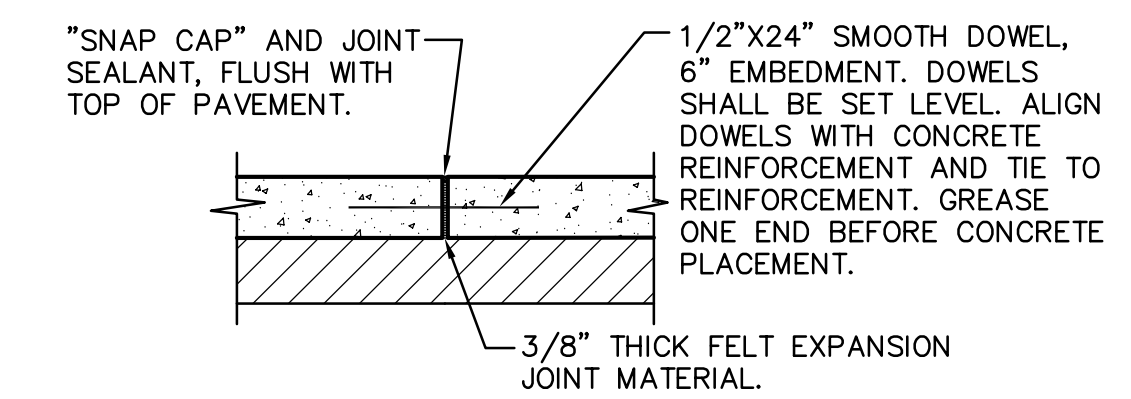
4 TRUNCATED DOMES
NO SCALE



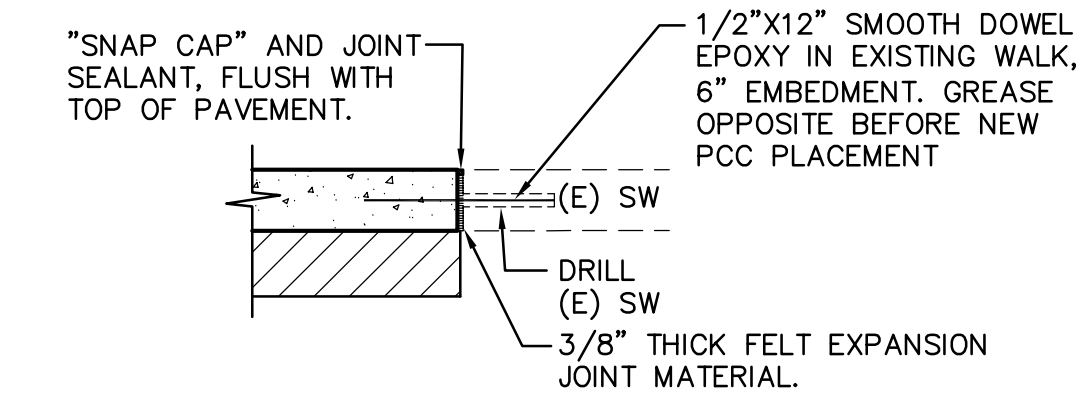
TYPICAL SECTION



TYPICAL THICKENED EDGE



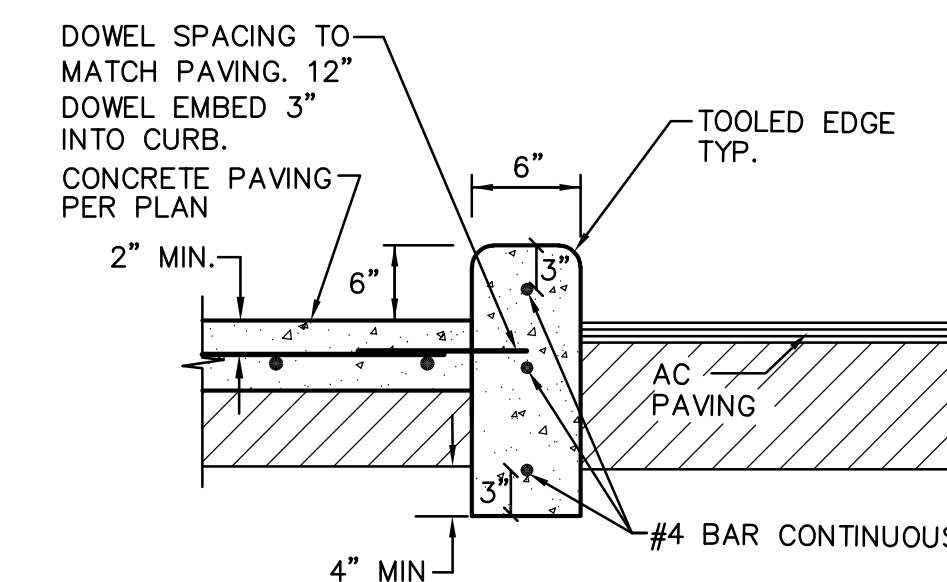
TYPICAL JOINTS



CONNECTION TO (E) CONCRETE

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

1 CONCRETE SIDEWALK
NO SCALE



- NOTES:
1. 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.
 2. AT E.J. USE 1/2"x24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2 CONCRETE CURB
NO SCALE



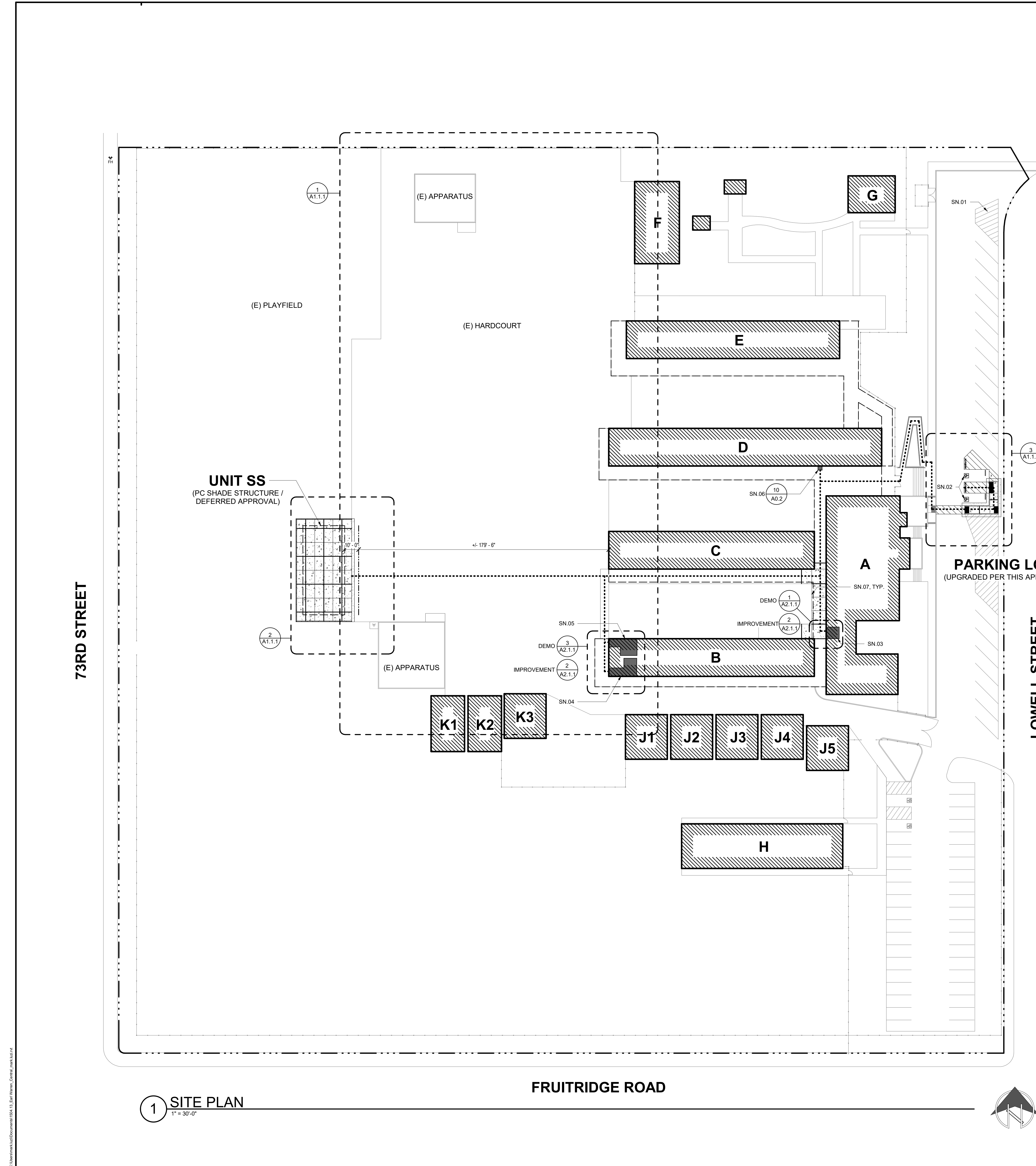
SHADE STRUCTURE AT EARL WARREN
ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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DETAILS AND SECTIONS

PROJECT NO. 1504.13
DATE: 3/21/2022
SHEET

C3.1



PROPOSED SHADE STRUCTURE				
UNIT	DESCRIPTION	CONSTRUCTION TYPE	OCCUPANCY	ALLOWABLE AREA
SS	SHADE STRUCTURE	I-B OR	A-3	9,500 SF MAX
		V-B	A-3	6,000 SF MAX

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	ADMINISTRATION / MULTIPURPOSE	12385, THIS APPLICATION	6,940	
B	CLASSROOMS	12385, THIS APPLICATION	3,982	
C	CLASSROOMS	8803	3,982	
D	CLASSROOMS	4803	5,287	
E	CLASSROOMS	8803	4,131	
F	RELOCATABLE CLASSROOMS	02-100257	1,920	
G	RELOCATABLE CLASSROOMS	16532	960	
H	RELOCATABLE CLASSROOMS	02-105397	3,840	
J1-J5	RELOCATABLE CLASSROOMS	53491	960 EACH	
K1-K2	RELOCATABLE CLASSROOMS	53491, 02-102253, 02-107121	960 EACH	

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

1) HAVE BEEN IDENTIFIED AND

2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR 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:	22 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	1 (1-25 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
- 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.
- 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 20 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 LIGHT 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 REVIEWED AND VERIFIED 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.
 - SN.07 CONTRACTOR TO VERIFY (E) COLUMN LOCATIONS AND FOOTING CONDITIONS ALONG (E) WALKWAY WHERE WORK IS TO BE DONE WITH INVESTIGATIVE DEMOLITION. PRIOR TO FULL DEMOLITION, CONTRACTOR TO REPORT (E) FOOTING CONDITION INVESTIGATIVE FINDINGS TO DESIGN PROFESSIONAL PRIOR TO FULL DEMOLITION.

rga A studio of HMC Architects

REGISTERED ARCHITECT
C-14648
SACRAMENTO, CALIFORNIA
STATE OF CALIFORNIA

SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

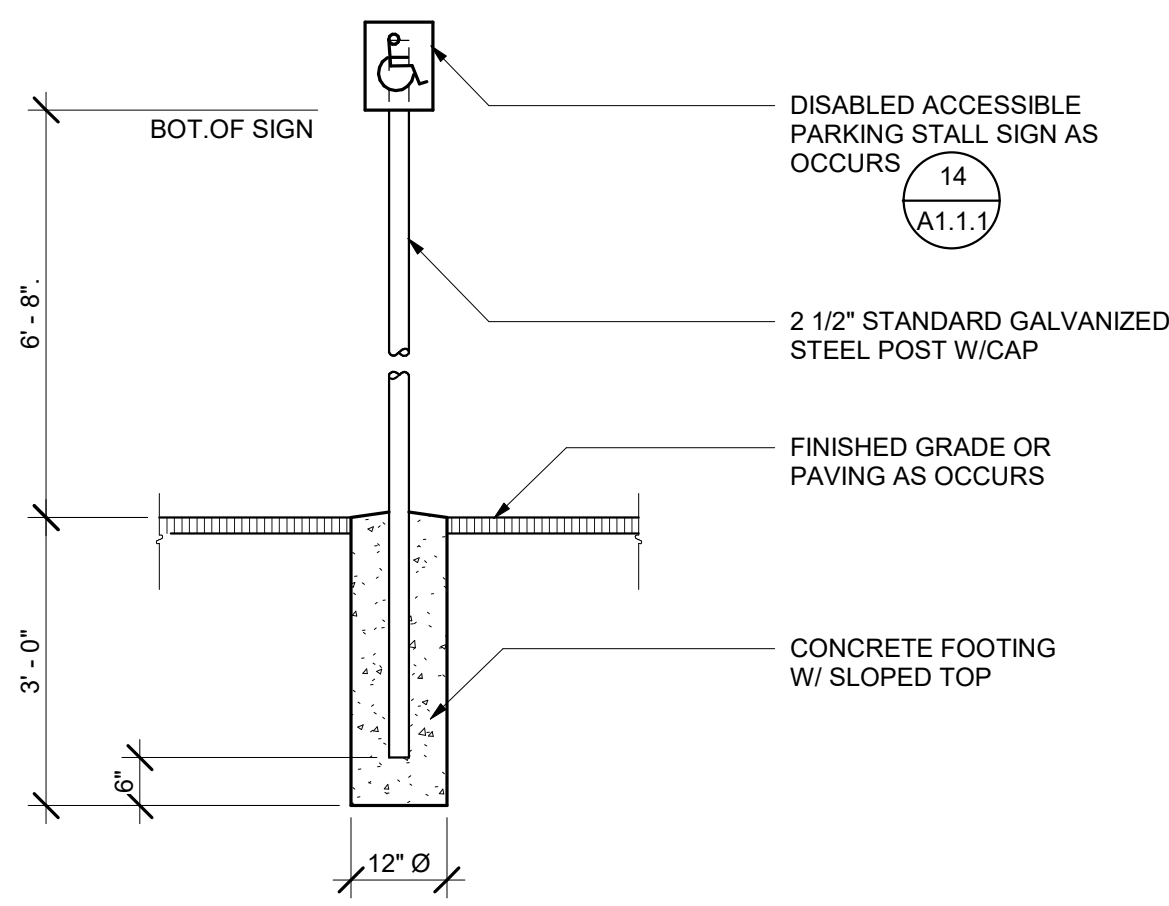
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SITE PLAN AND CODE INFORMATION

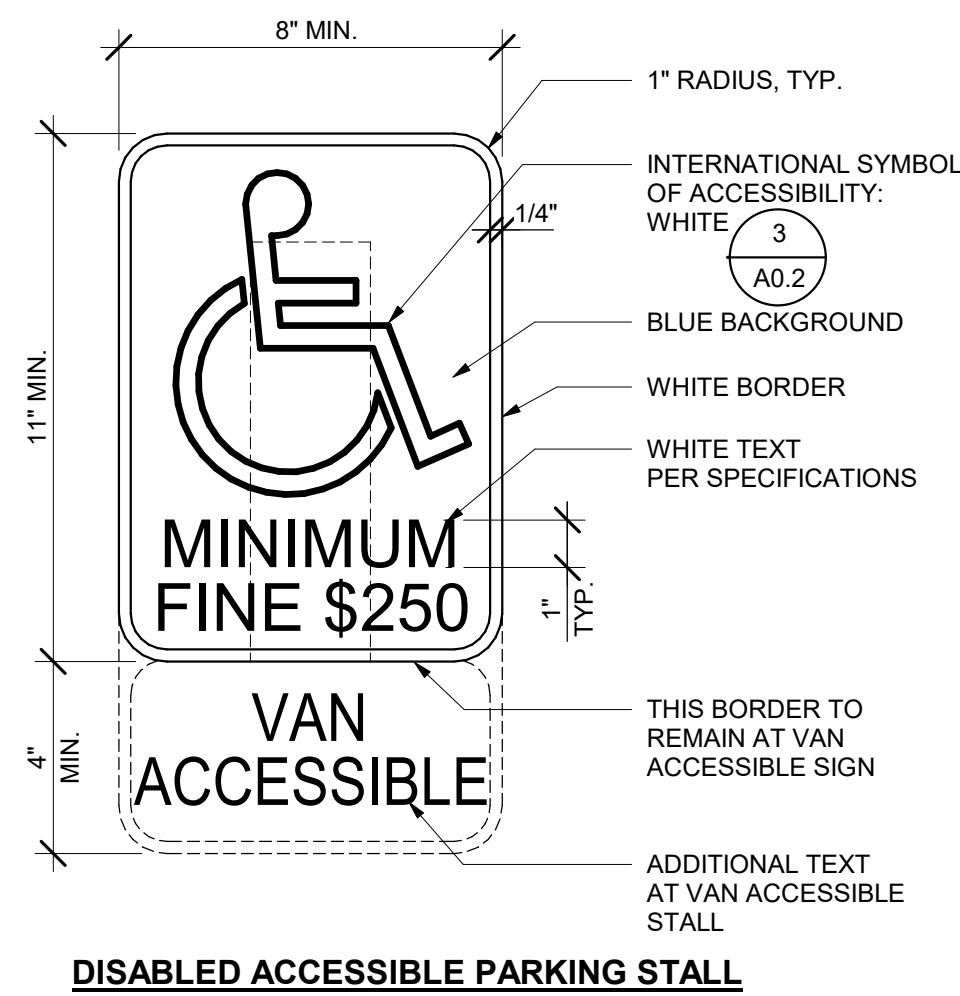
PROJECT NO. 1504.13
DATE: 3/22/2022
SHEET **A11.0**

1 SITE PLAN
1" = 30'-0"

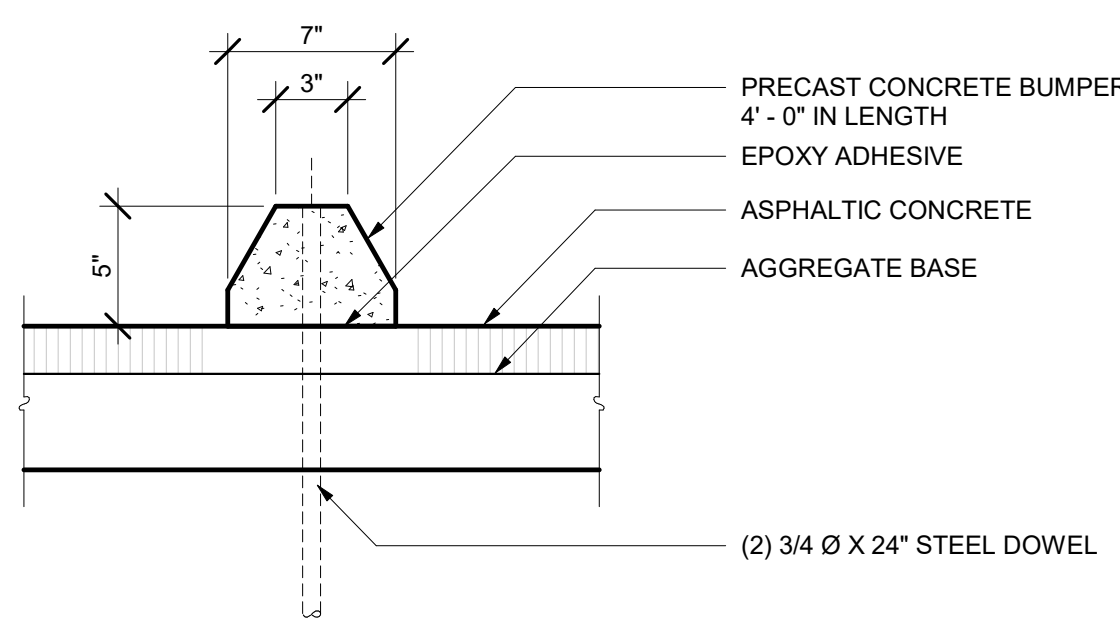
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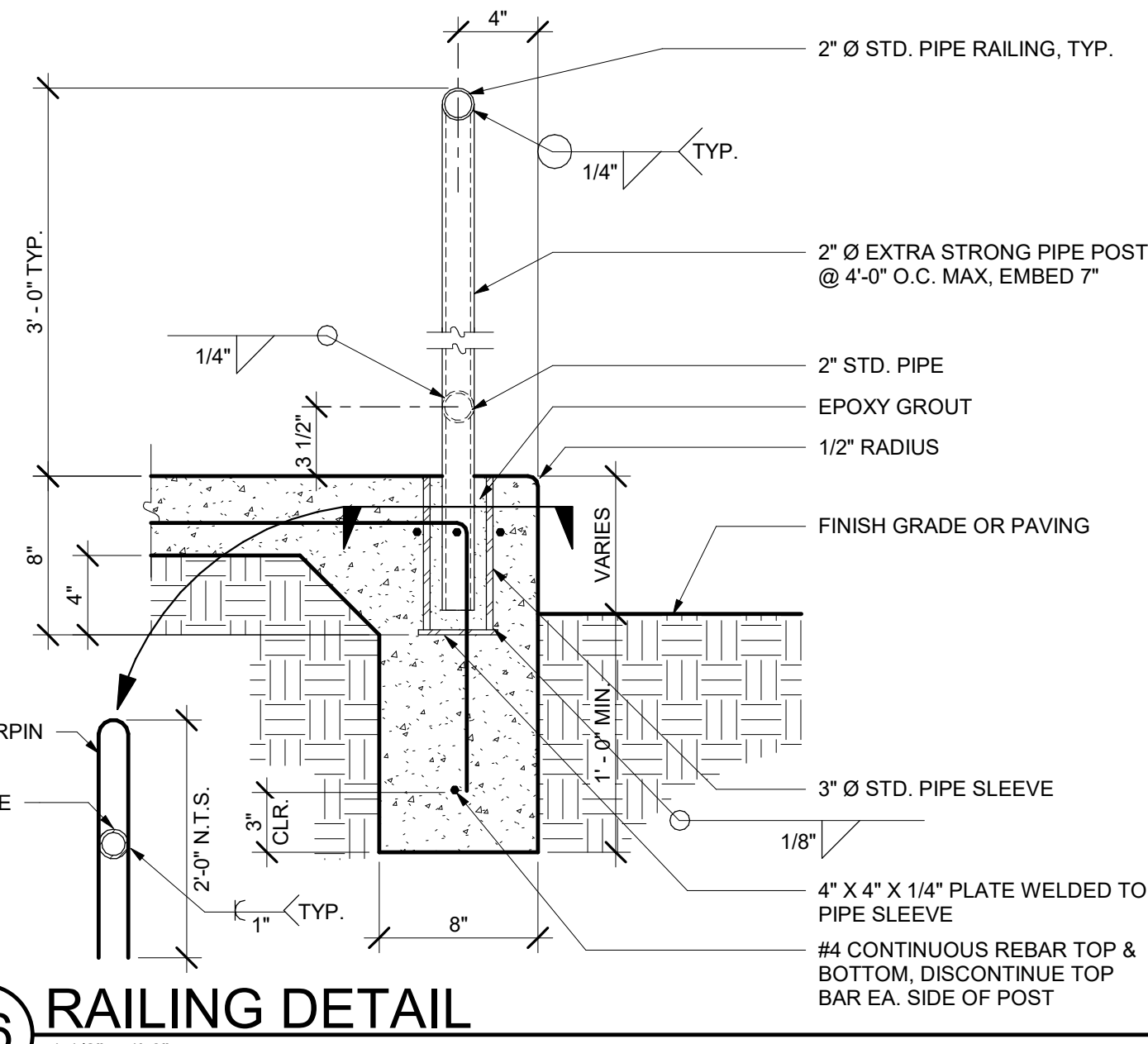
13 METAL SIGNS
1/2" = 1'-0"



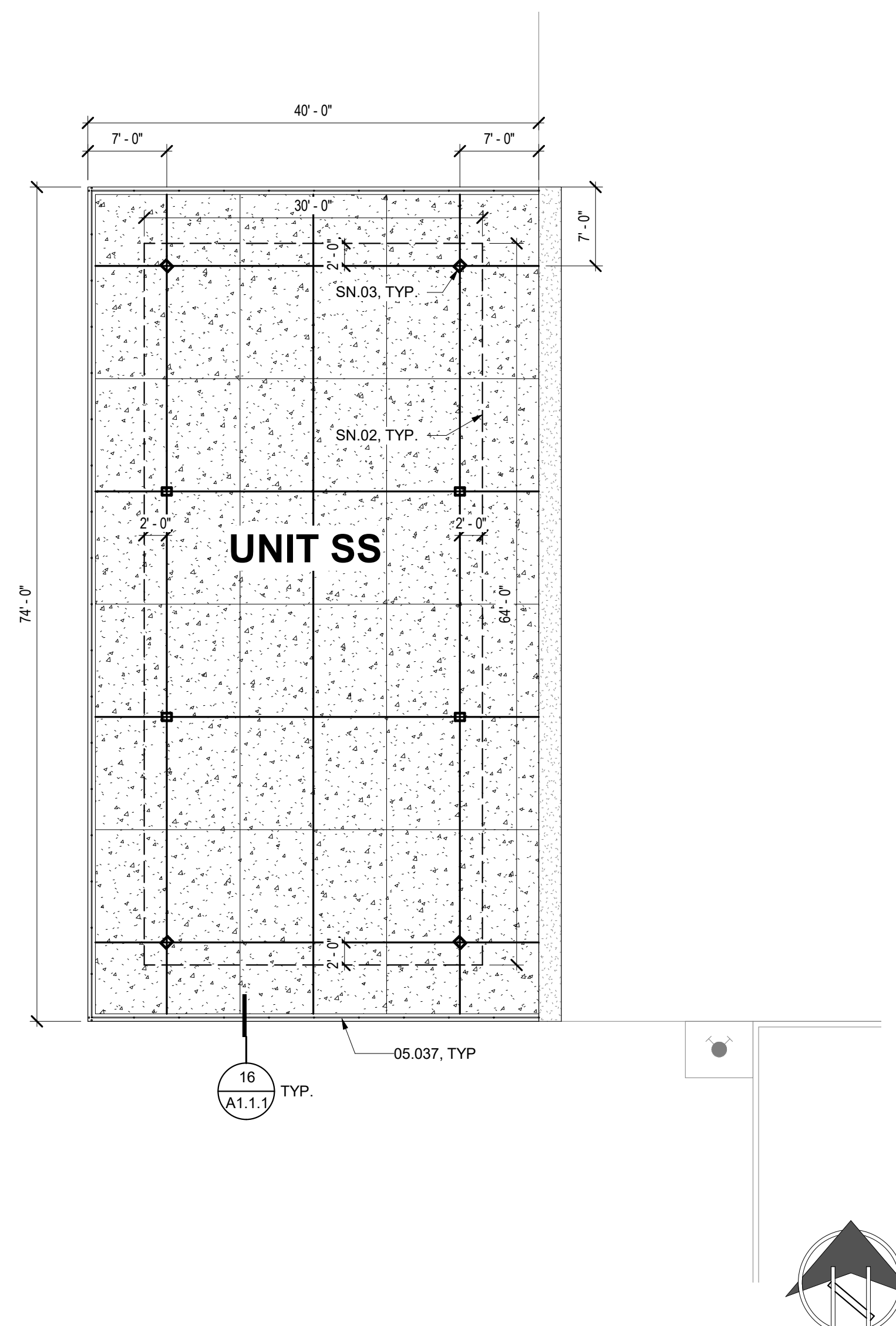
14 PARKING SIGNAGE
3" = 1'-0"



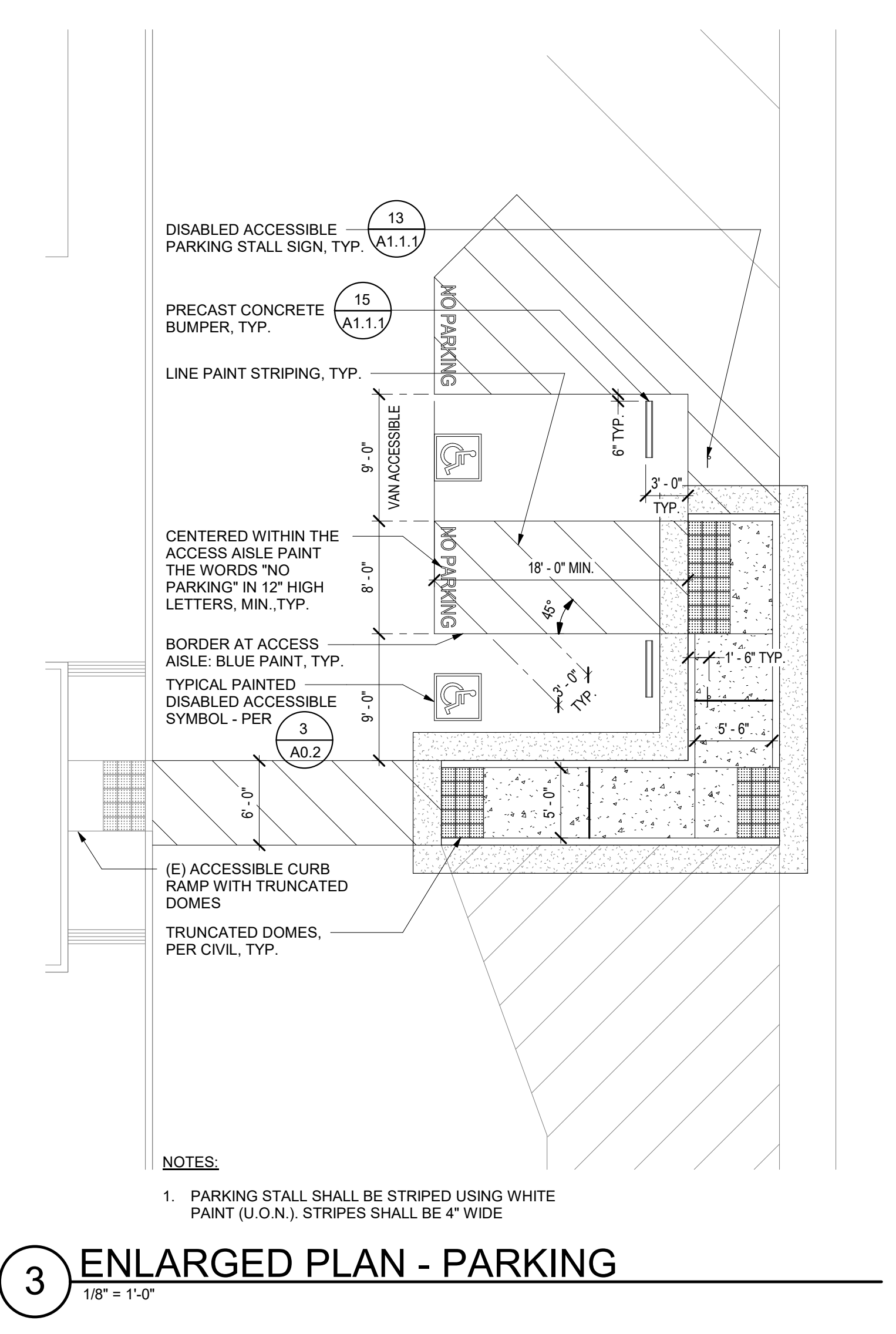
15 PRECAST CONCRETE BUMPER
1 1/2" = 1'-0"



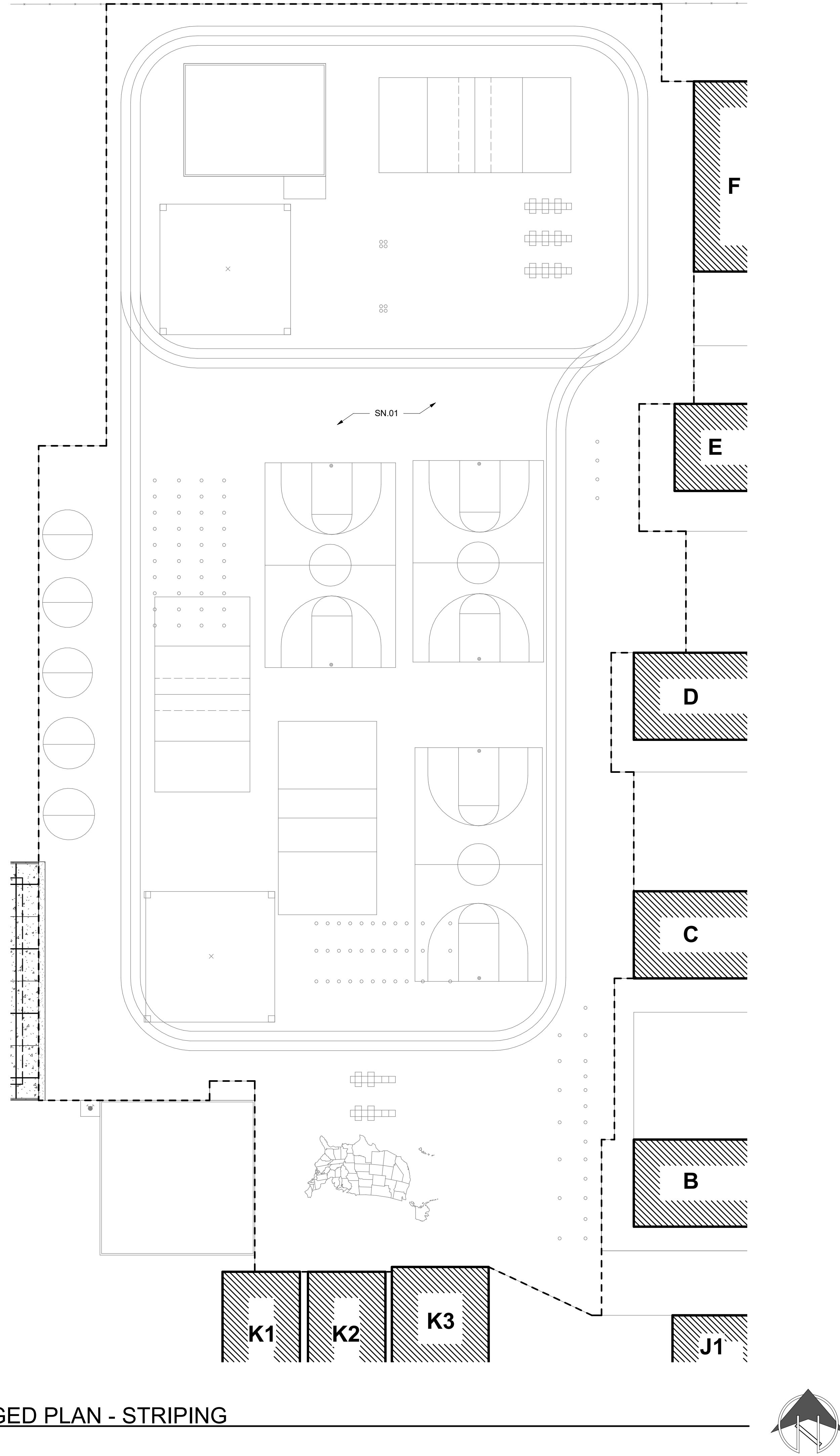
16 RAILING DETAIL
1 1/2" = 1'-0"



2 ENLARGED PLAN - SHADE STRUCTURE
1" = 10'-0"



3 ENLARGED PLAN - PARKING
1/8" = 1'-0"



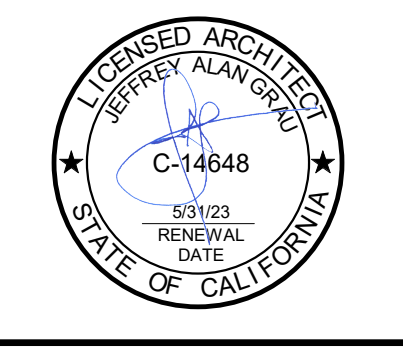
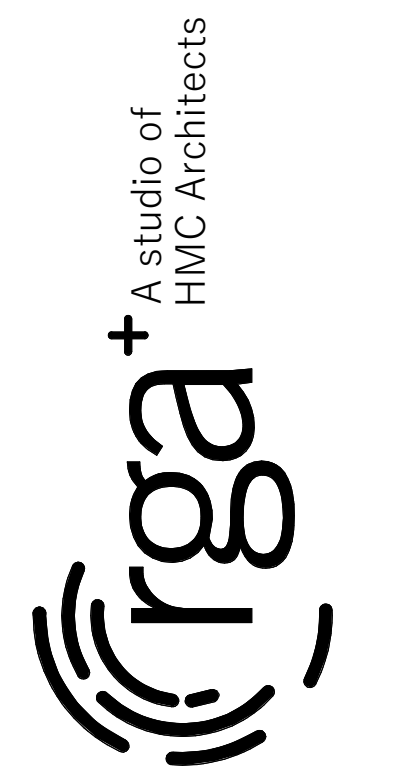
1 ENLARGED PLAN - STRIPING
1" = 20'-0"

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

- GENERAL NOTES**
1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF CRACK REPAIR AT (E) HARDCOURT.
 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING (E) STRIPING CONDITIONS AND VERIFYING EXACT LAYOUT TO BE RESTRIPTED 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 RESTRIPTED OVER SEAL COAT. EXTENTS SHOWN DASHED
 - SN.02 ROOF OVERHANG ABOVE, PER PC SHADE STRUCTURE / DEFERRED APPROVAL
 - SN.03 HSS COLUMN AND FOOTING, PER PC SHADE STRUCTURE / DEFERRED APPROVAL

- KEYNOTES**
- 05.037 METAL RAILING



**SHADE STRUCTURE AT EARL WARREN
ELEMENTARY SCHOOL**

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA**

Revision

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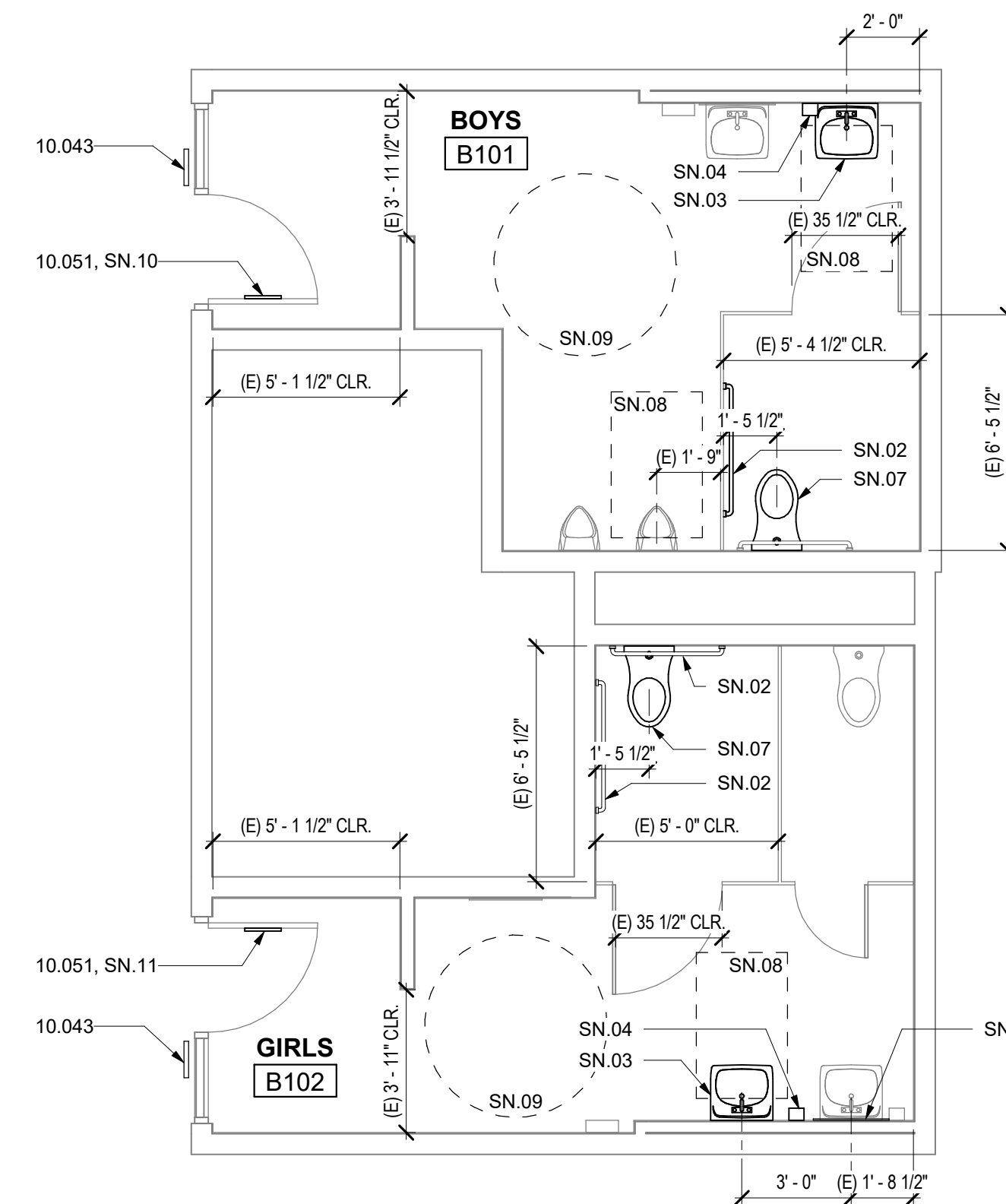
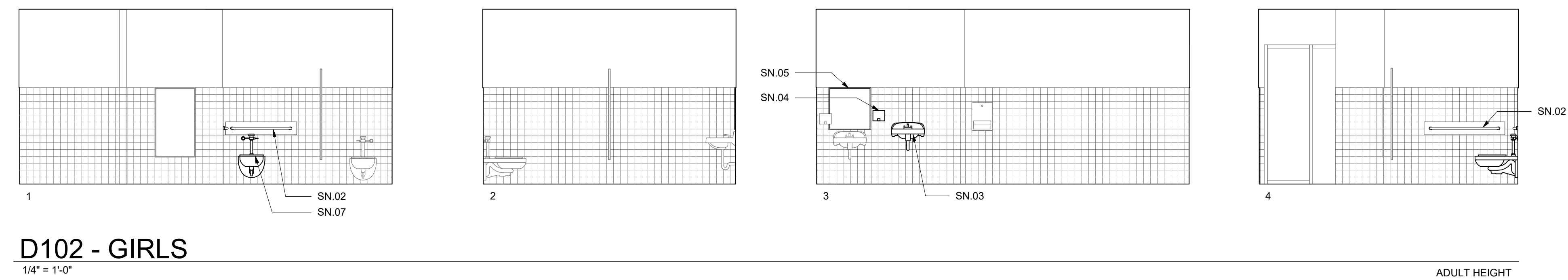
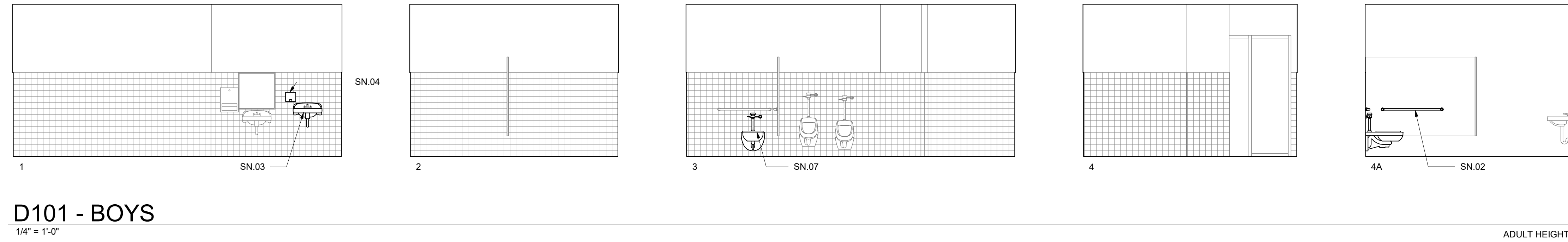
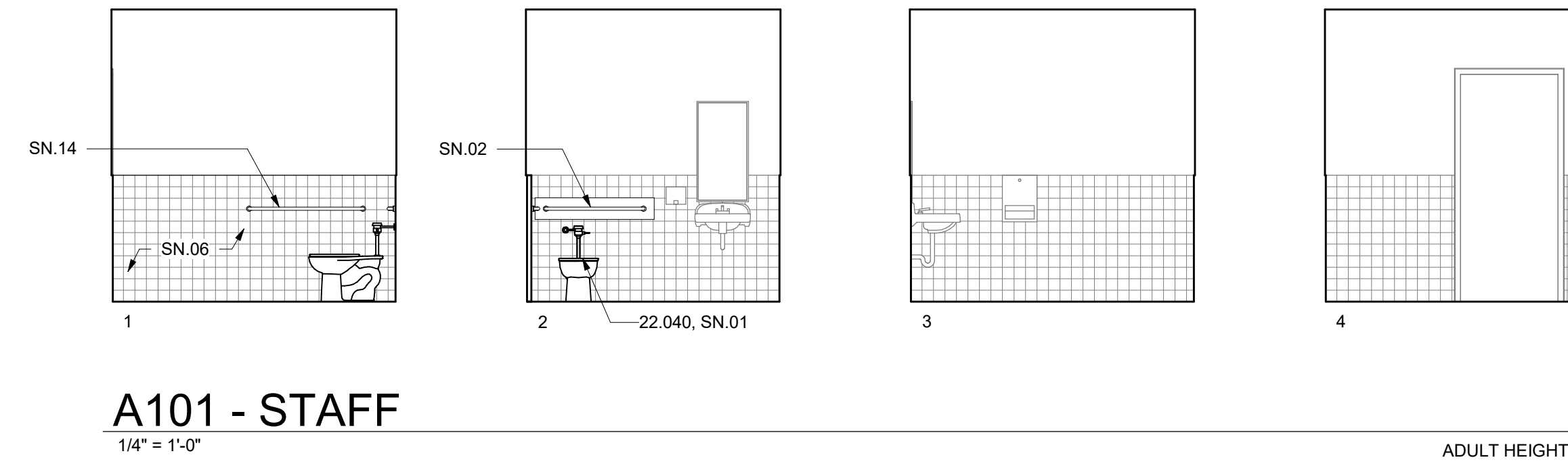
**PARTIAL SITE PLANS
AND DETAILS**

PROJECT NO. 1504.13
DATE: 3/22/2022
SHEET **A1.1.1**

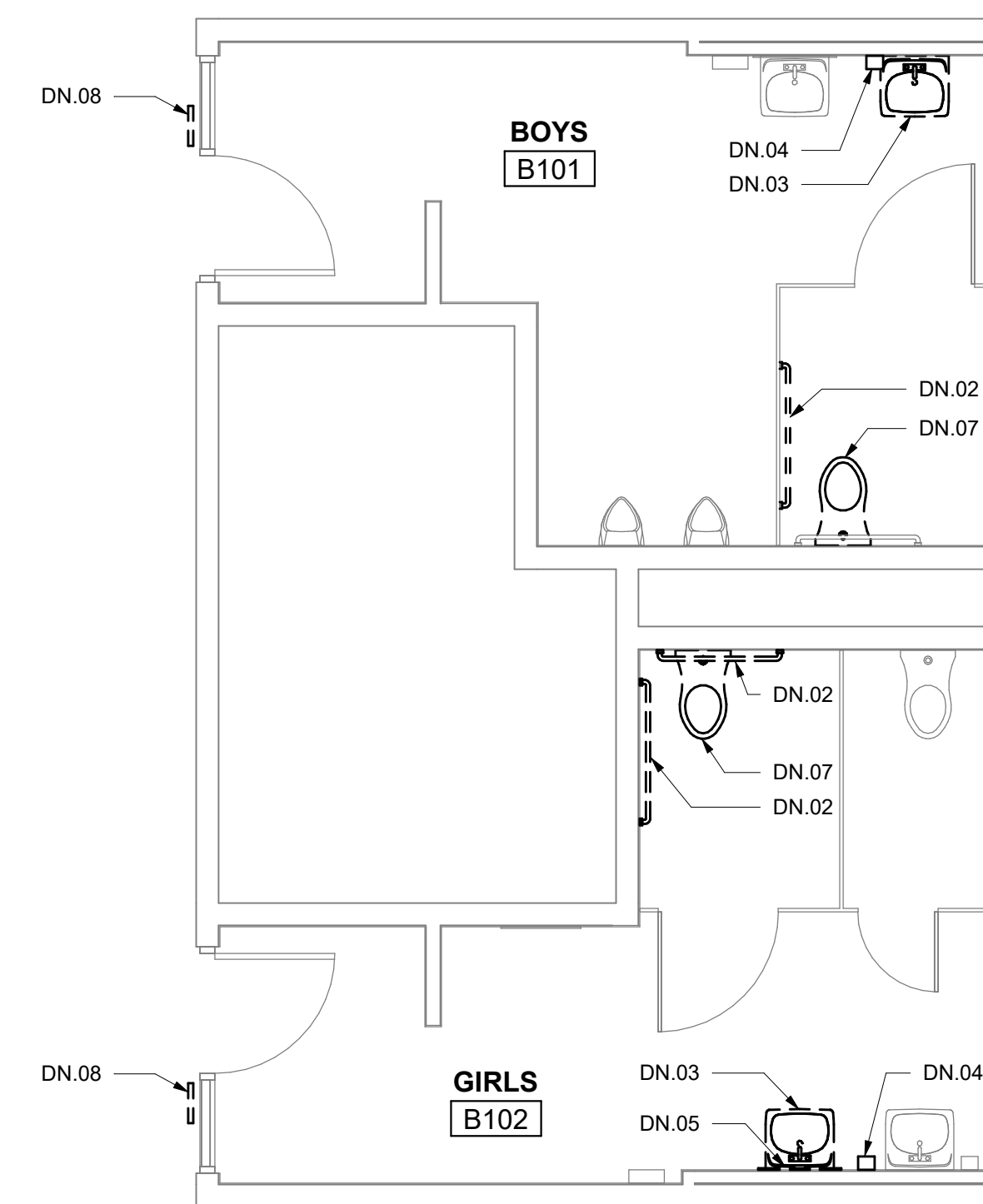
C:\Users\mcd\Documents\1504.13_EarlWarren_College_Architects.dwg

PLUMBING FIXTURE SCHEDULE - BASIS OF DESIGN				UTILITY CONNECTIONS						
SYMBOL	FIXTURE	DESCRIPTION	NOTES	VENT	WASTE		COLD WATER		HOT WATER	
					BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
WC-1 (ADA)	WATER CLOSET FLUSH VALVE FLOOR MTD	"KOHLER" HIGHCLIFF ULTRA, MODEL K-96057, OR EQUAL, VITREOUS CHINA, ELONGATED, 1-1/2" TOP SPUD, 12" ROUGH-IN, 16-5/8" RIM HEIGHT, 1.28 GPF, FLUSH VALVE: "SLOAN" ROYAL OPTIMA 111-1.28	SEAT: "CHURCH" 295SSCT OR EQUAL, SELF-SUSTAINING CONCEALED CHECK HINGES, ONE PIECE SS POST HINGES, WHITE COLOR. MOUNT FLUSH HANDLE ON WIDE SIDE OF WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--

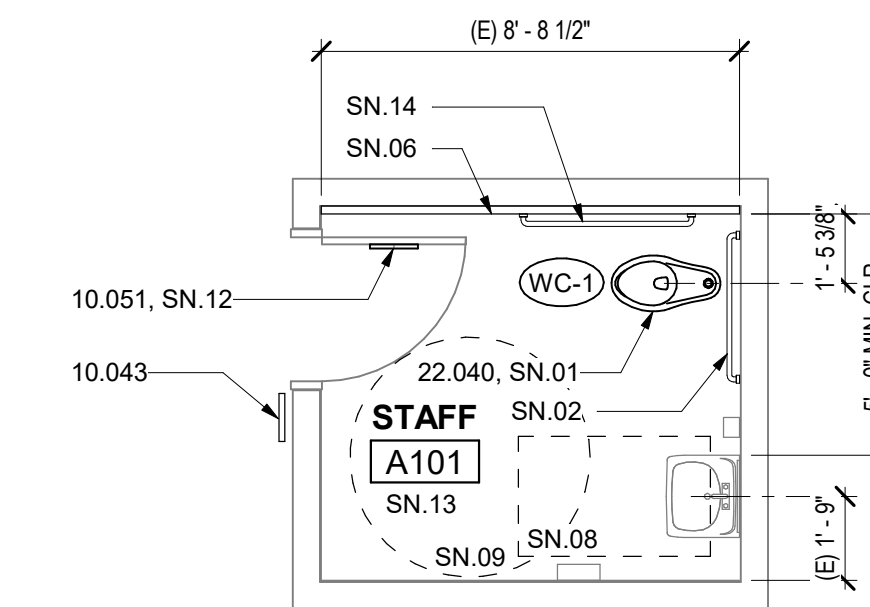
5 PLUMBING FIXTURE SCHEDULE
1/2" = 1'-0"



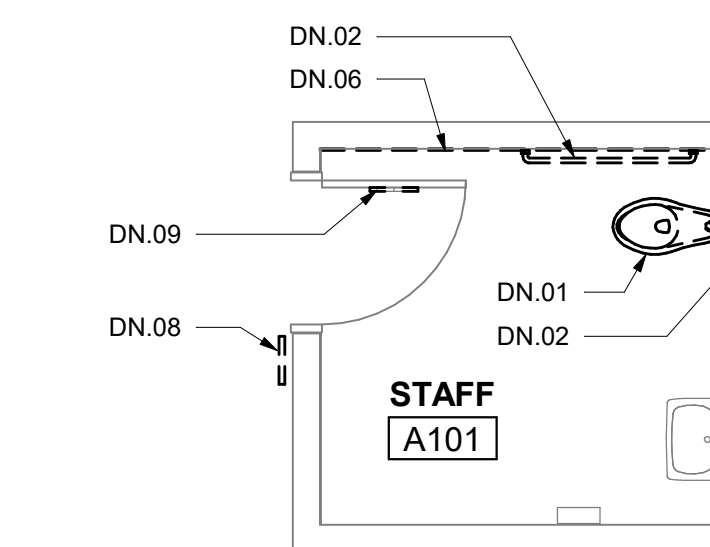
4 BOYS AND GIRLS - IMPROVEMENT
1/4" = 1'-0" ADULT HEIGHT



3 BOYS AND GIRLS - DEMOLITION
1/4" = 1'-0" ADULT HEIGHT

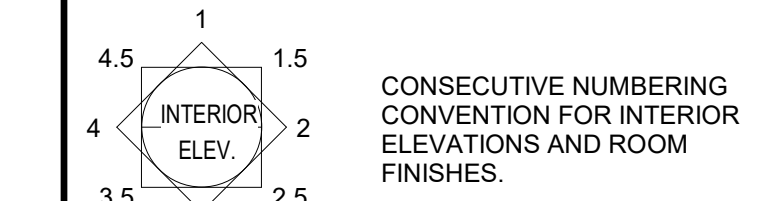


2 STAFF - IMPROVEMENT
1/4" = 1'-0" ADULT HEIGHT



1 STAFF - 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

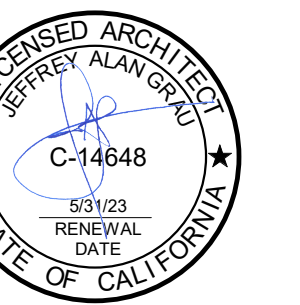
- DN.01 REMOVE (E) FLOOR-MOUNTED WATER CLOSET
DN.02 REMOVE (E) GRAB BARS AND SALVAGE FOR REINSTALLATION
DN.03 REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
DN.04 REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
DN.05 REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
DN.06 REMOVE (E) TILE FINISH FROM THIS WALL ONLY
DN.07 REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
DN.08 REMOVE (E) TOILET ROOM I.D. SIGN
DN.09 REMOVE (E) TOILET ROOM DOOR SYMBOL

SHEET NOTES

- SN.01 RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT
SN.02 REINSTALL (E) SALVAGED GRAB BARS TO COMPLY WITH A0.2
SN.03 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
SN.04 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
SN.05 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
SN.06 FURRED WALL PER 12 A0.2
SN.07 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.
SN.08 30" X 48" CLEAR SPACE
SN.09 80" DIA. TURNING CIRCLE
SN.10 SIGN TO READ "BOYS"
SN.11 SIGN TO READ "GIRLS"
SN.12 SIGN TO READ "STAFF"
SN.13 WRAP ALL EXPOSED PIPES WITH INSULATION AT LAVATORIES
SN.14 REINSTALL (E) SALVAGED GRAB BAR TO COMPLY WITH A0.2 AND PER 12 A0.2

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
22.040 WATER CLOSET



SHADE STRUCTURE AT EARL WARREN
ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

TOILET ROOM
DEMOLITION AND
IMPROVEMENT PLANS
AND INTERIOR
ELEVATIONS

UNITS A & D

PROJECT NO. 1504.13
DATE: 3/22/2022
SHEET

A2.1.1

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ABBREVIATION LIST

Table with 2 columns: Abbreviation and Description. Includes entries like AC (AIR CONDITIONING), AWG (AMERICAN WIRE GAUGE), and various electrical symbols.

GENERAL NOTES

- 1. 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.
2. ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
... 29. 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:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. 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.
3. 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:

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 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 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

- MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #

SYMBOLS LIST

- FUSED DISCONNECT SWITCH
DUPLIX CONVENIENCE OUTLET
DOUBLE DUPLIX CONVENIENCE OUTLET
GROUND FAULT CIRCUIT INTERRUPTER DUPLIX OUTLET
GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLIX OUTLET
SPECIAL OUTLET TO MATCH CAP PROVIDED WITH MACHINE
FLUSH FLOOR BOX OR "POKE-THRU" UNIT EQUIPPED WITH FLUSH OR PEDESTAL DUPLIX 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
WIREFORM SURFACE RACEWAY(S) WITH OUTLETS AS SHOWN OR NOTED, SEE SURFACE RACEWAY SCHEDULE
SYMBOLS REFERRING TO KEYPED NOTES ON SAME SHEET
MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
DETAILED DESIGNATION, "A" SIGNIFIES DETAIL, "E-1" SIGNIFIES SHEET NUMBER
(1)1-1/2" C INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

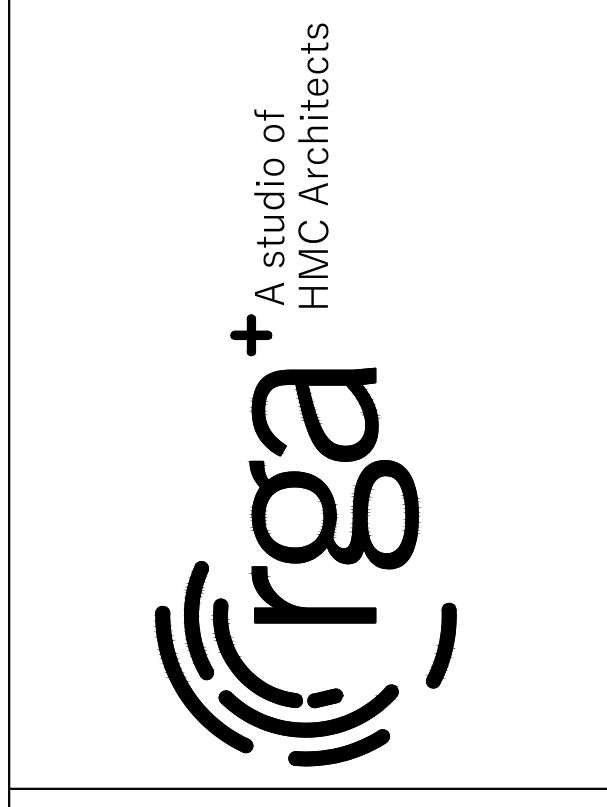
SYMBOLS LIST NOTES:

- 1. MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
2. MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
3. "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:
3.1. +48" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
3.2. +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
4. OUTLET BOXES SHALL BE:
4.1. WALL MOUNTED - 4" SQ. x 2-1/8" DEEP MINIMUM
4.2. CEILING MOUNTED - 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
5. OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
6. FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
7. 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.
8. 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.
9. INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

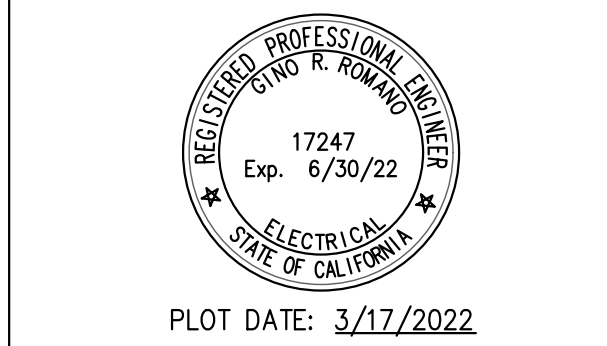
120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

Table with columns: LOAD IN VOLT AMPERES, LENGTH OF CONDUCTOR WIRE SIZE IN (GAUGE), and sub-columns for #12, #10, #8, #6, #4.

- NOTES
1. THIS CHART IS FOR COPPER CONDUCTORS ONLY.
2. THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
3. 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.
4. USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
5. FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART



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PLOT DATE: 3/17/2022

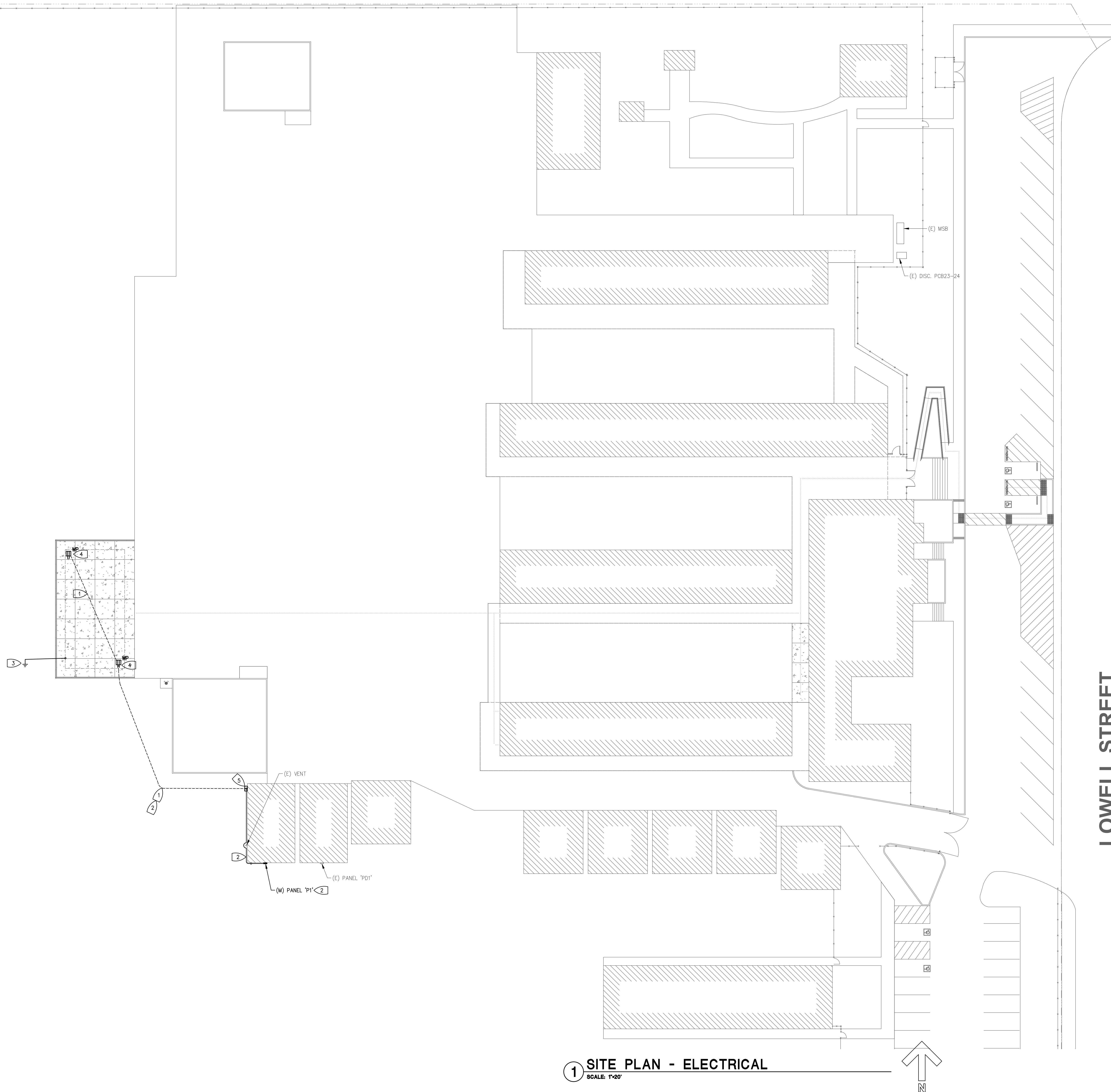
SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL
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SYMBOLS, NOTES

PROJECT NO. 1504.13
DATE: 3/21/2022
SHEET E0.1

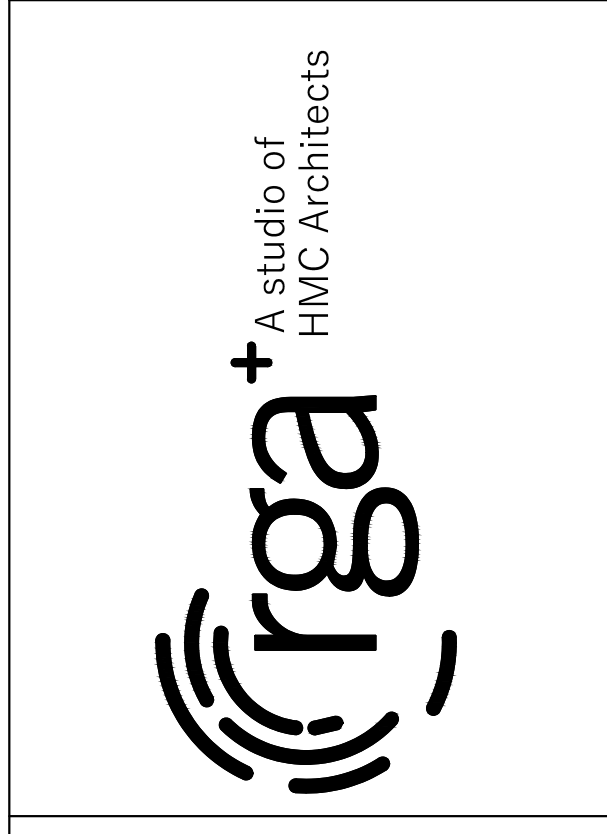


SHEET NOTES:

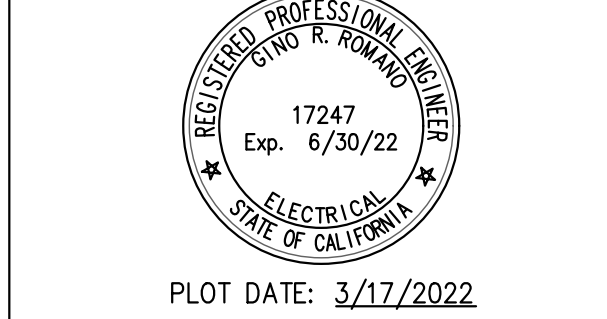
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

KEYED NOTES:

1. PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. 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. PROVIDE J-BOX LOW ON WALL. RUN CONDUIT BELOW THE HVAC UNIT, THEN RISE CONDUIT HIGH ON WALL AS CLOSE TO THE EAVE AS POSSIBLE TO WRAP AROUND BUILDING, AND DROP CONDUIT TO BELOW GRADE. PROVIDE CHRISTY N8 PULL BOX WITH FIVE(5) FT OF SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. 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**.
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.
5. PROVIDE 8" BY 6" BY 4" NEMA 3R PULL BOX.



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

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SITE PLAN - ELECTRICAL

PROJECT NO. 1504.13
 DATE: 3/21/2022
 SHEET **E1.1**

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

MODIFIED

PANEL: P1		MANF: SQUARE-D	MAIN: 100/2	SERVICE: 120 /208 VOLT	MOUNTING: SURFACE	ENCLOSURE: 10K	AIC: 100% NEUT.
TYPE: HOMELINE LC		BUSS: 100 AMP	FEEDER RATING: 100 AMP	1 Ø, 3W	DEPTH:		
AØ	BØ	DIRECTORY	BRKR	CKT	CKT BRKR	DIRECTORY	AØ BØ
4854	4854	HVAC	70/2	5	6	20/1	RECEPTS 1200
		LIGHTING	20/1	9	10	20/1	RECEPTS - SHADE STRUCT. [9] 380
		SPACE	PFB	11	12	PFB	SPACE
		SPACE	PFB	13	14	PFB	SPACE
		SPACE	PFB	15	16	PFB	SPACE
NEW LOAD		SERIALS RELINKS		PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND LOAD	
AØ =	6414 VA	AMPS	53.5	19.1	23.9	77.3 A	9279 VA
BØ =	6054 VA	AMPS	50.6	25.8	32.3	82.7 A	9624 VA

- NOTES:
1. FEEDER CONDUCTORS CONSIST OF 3#2 + 1#8 GND CU
 2. BRANCH BREAKERS ARE SQUARE-D TYPE HOM
 3. PROVIDE TYPE-WRITTEN PANEL DIRECTORY
 4. ALL NEW BREAKERS TO MATCH EXISTING TYPES
 5. PROVIDE NEW 20 AMP, SINGLE-POLE BREAKER

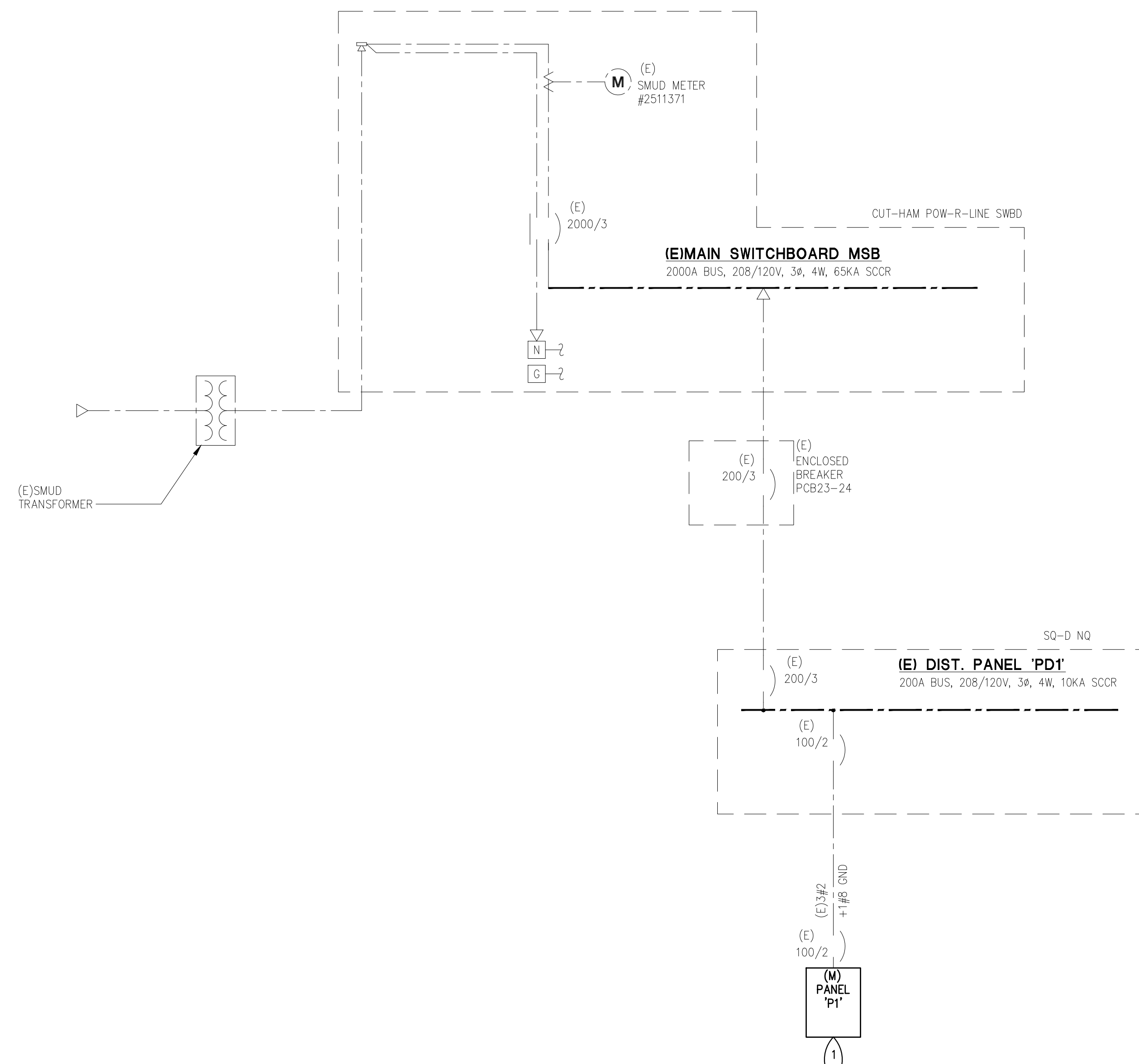
SHEET NOTES:

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.

KEYED NOTES:

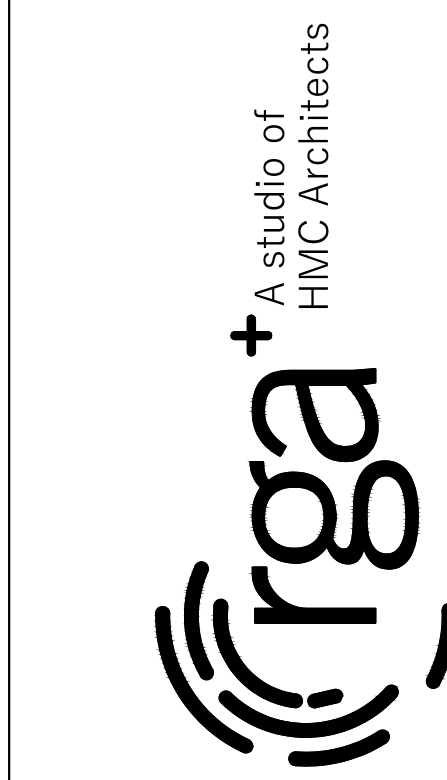
1. MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.

Voltage Drop Calculations Copper											
Job Name: Earl Warren Elementary School - Shade Structure										Job #: 22.020	
Date: 3/10/2022											
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	0.4	118.48	254	254	1	3.00	10	1995	1.52	1.27%
RECEPT-2	1.5	0.2	118.28	68	322	1	1.50	10	1995	1.72	1.44%

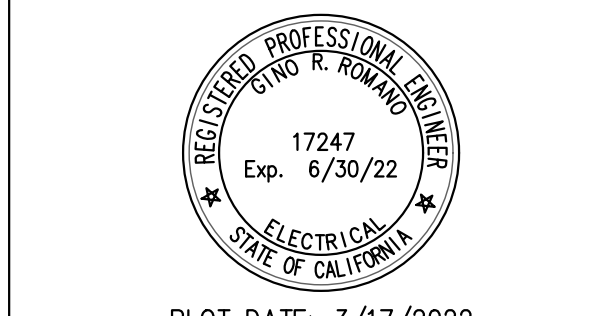


ONE LINE DIAGRAM

SCALE: NONE



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL
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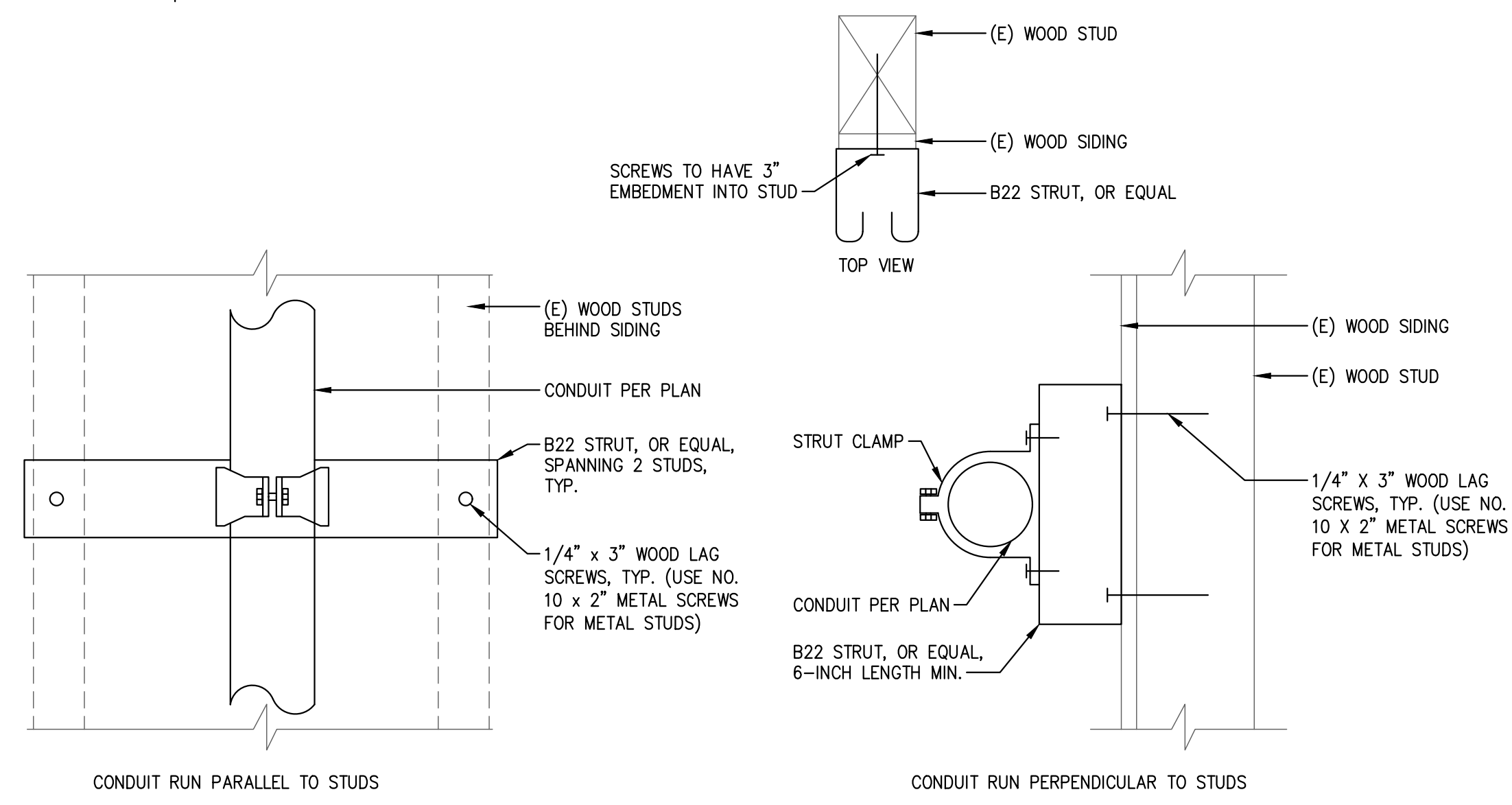
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ONE LINE DIAGRAM

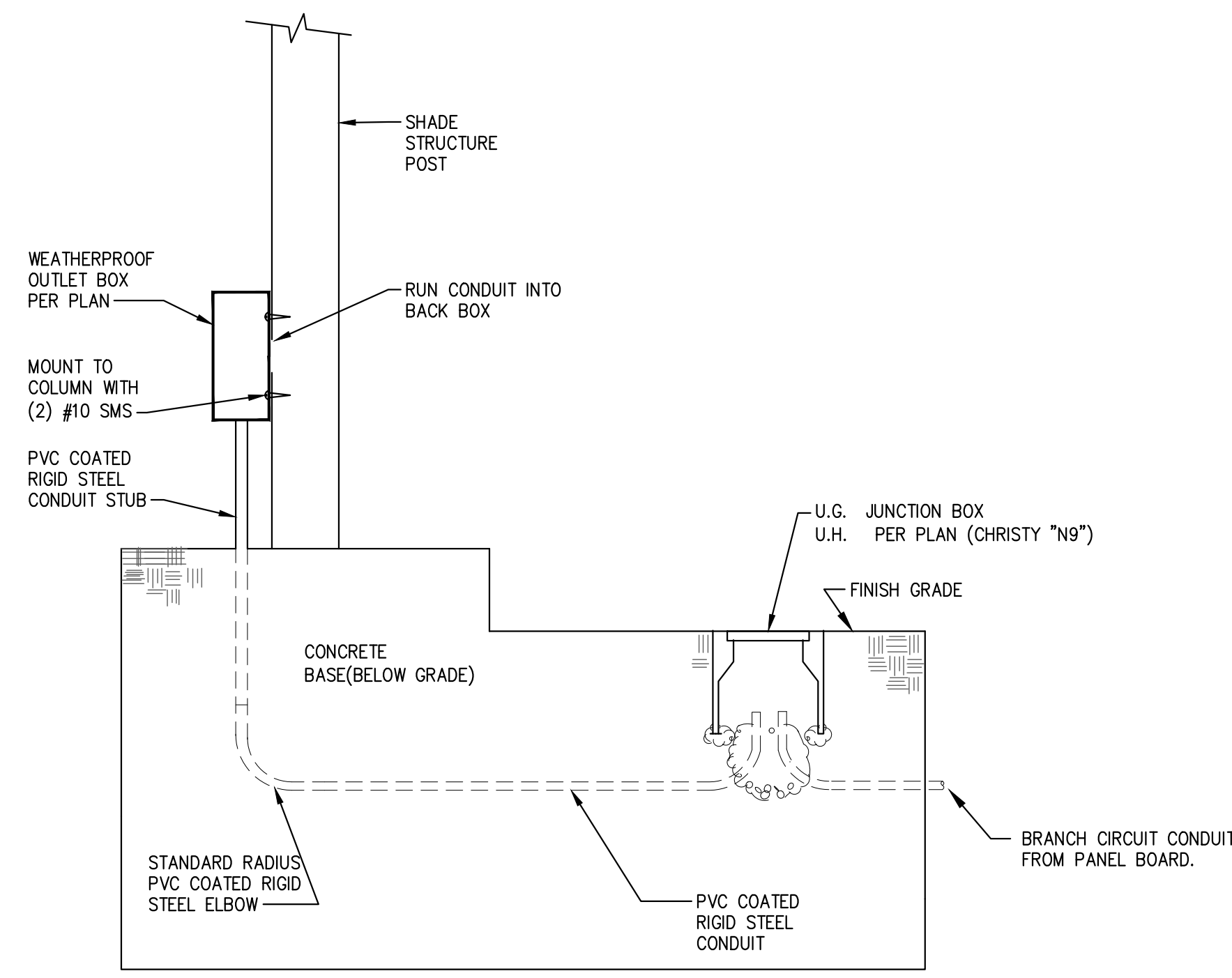
PROJECT NO. 1504.13
 DATE: 3/21/2022
 SHEET

E2.1

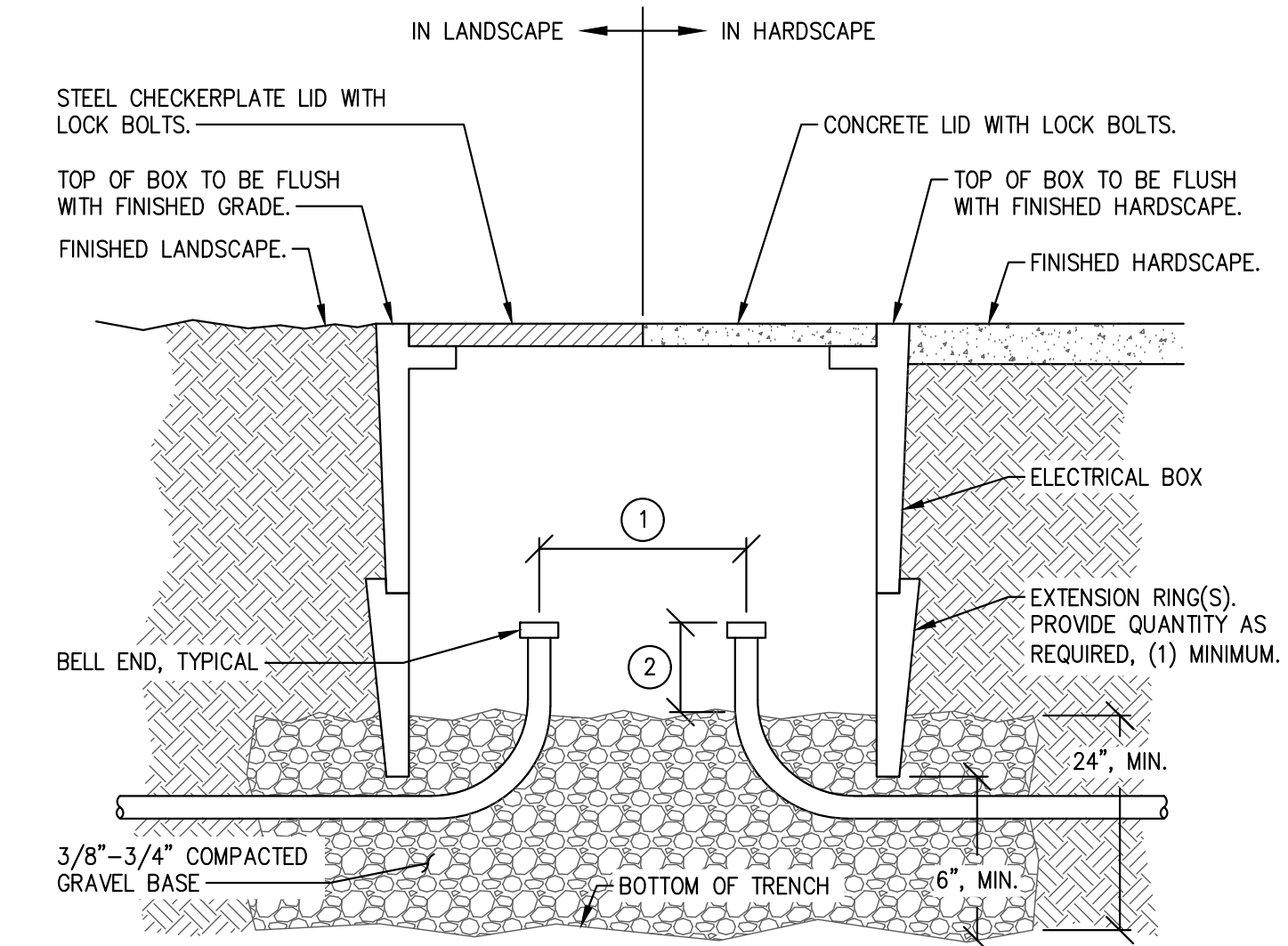


- NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.8LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

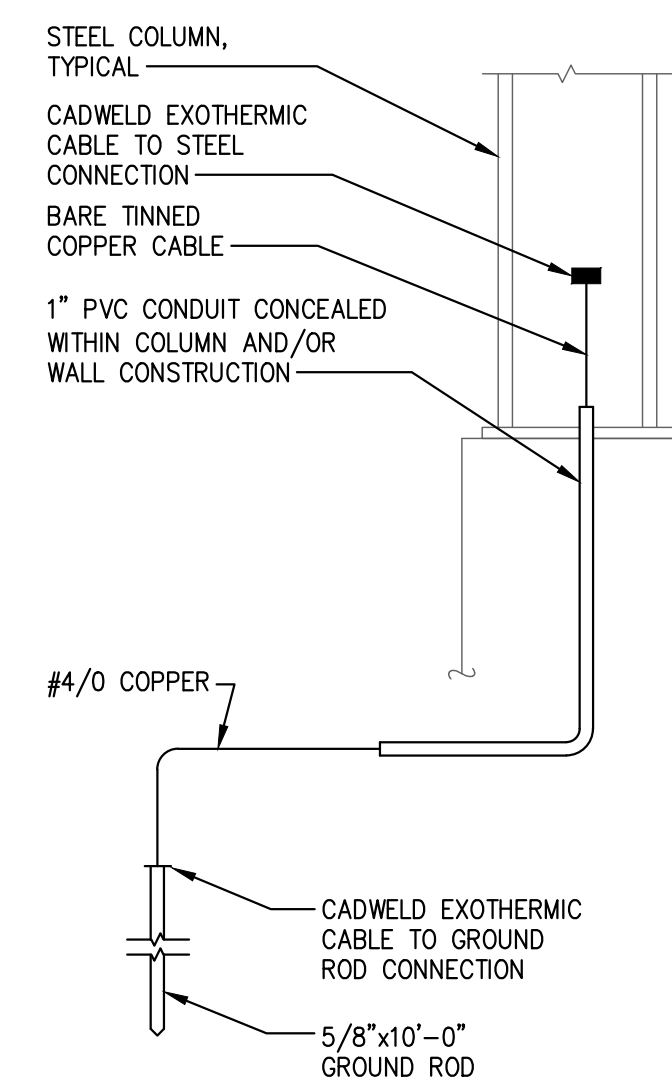


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



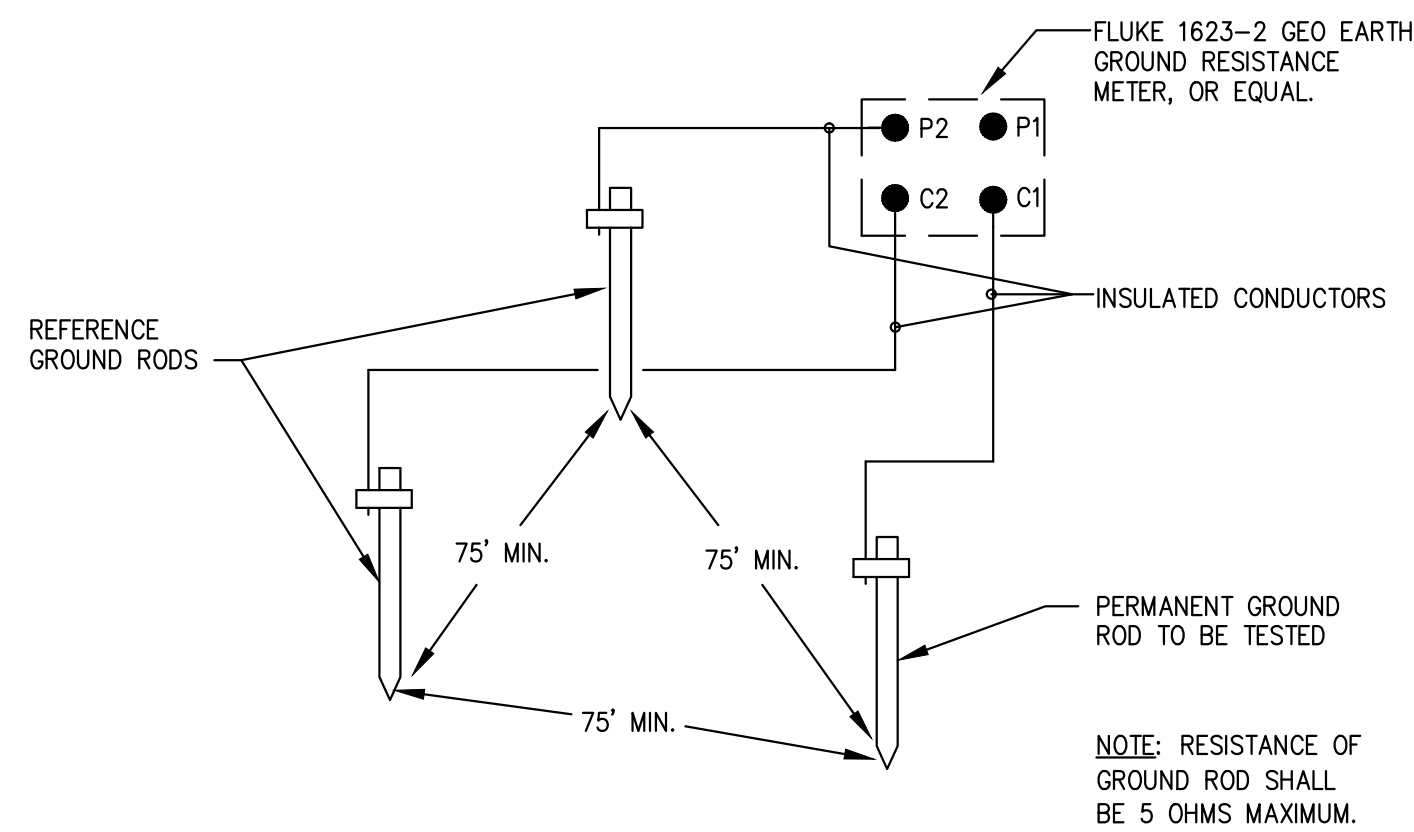
- KEY NOTES:
1. WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 2. TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX
SCALE: NONE

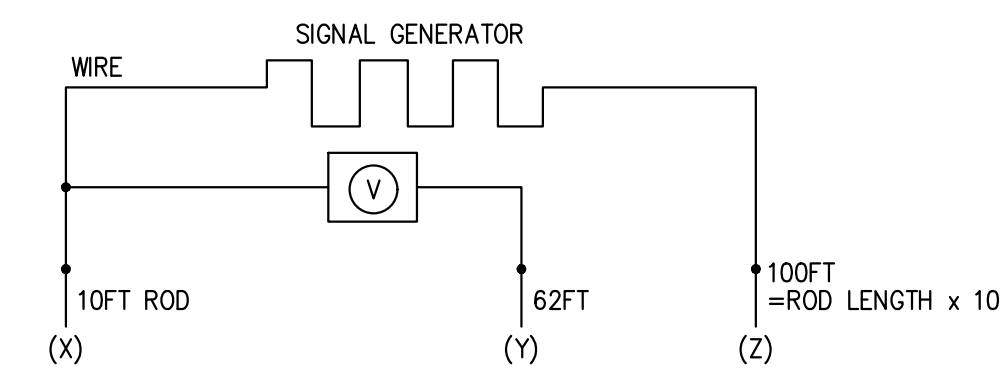


- NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE

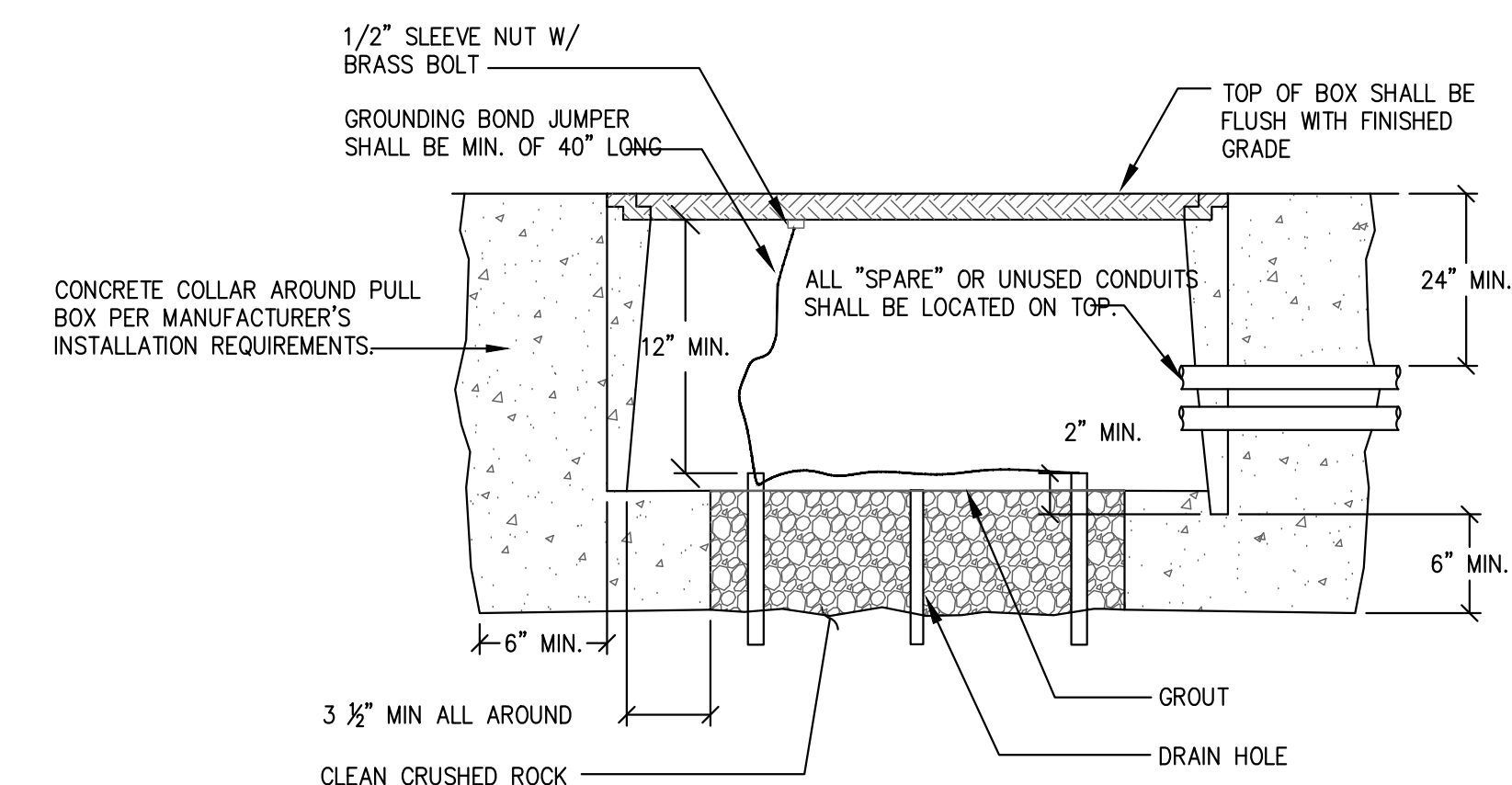


- FALL OF POTENTIAL TEST METHOD NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
 2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
 3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
 4. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC LT. EQUIPMENT: 3 OHMS.
 5. MAN-HOLE GROUNDS: 10 OHMS.
- FALL OF POTENTIAL 3-POINT TEST:
GROUND RING, I.E. 10 BY 10 RING, 14\"/>



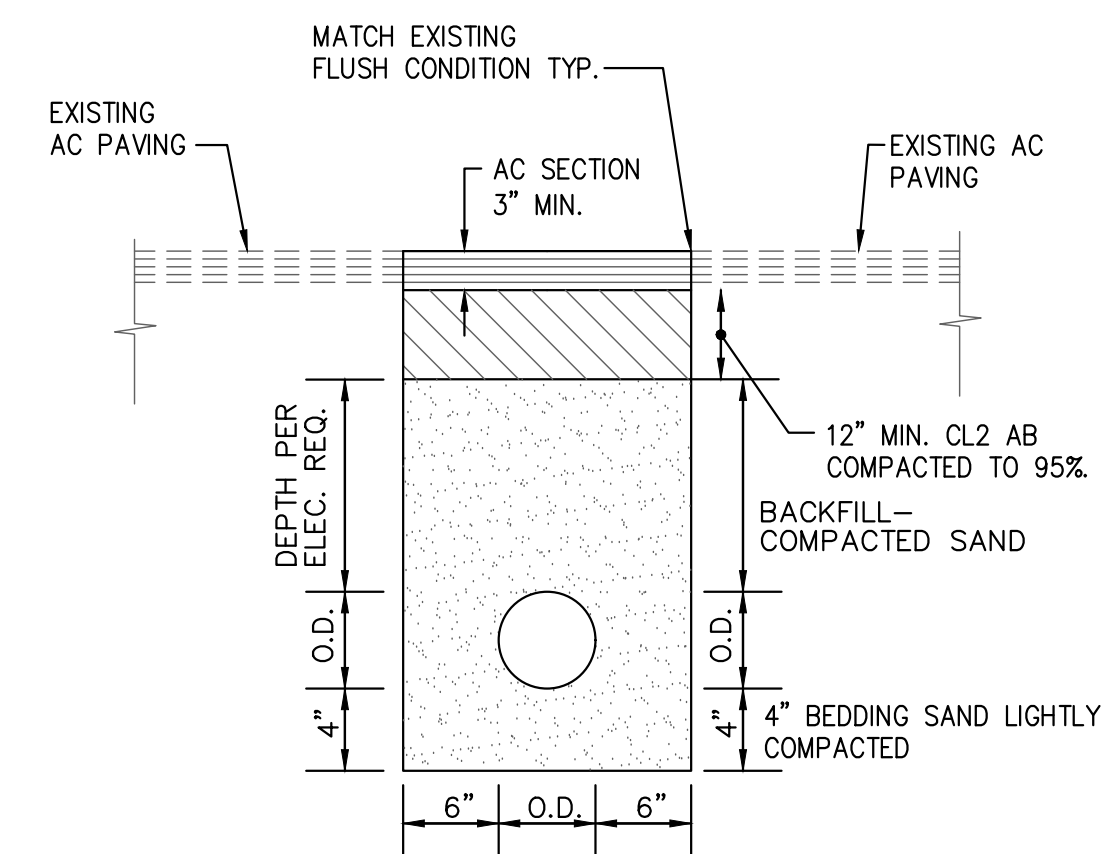
AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED $R=V/I$. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, ... 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE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

6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE

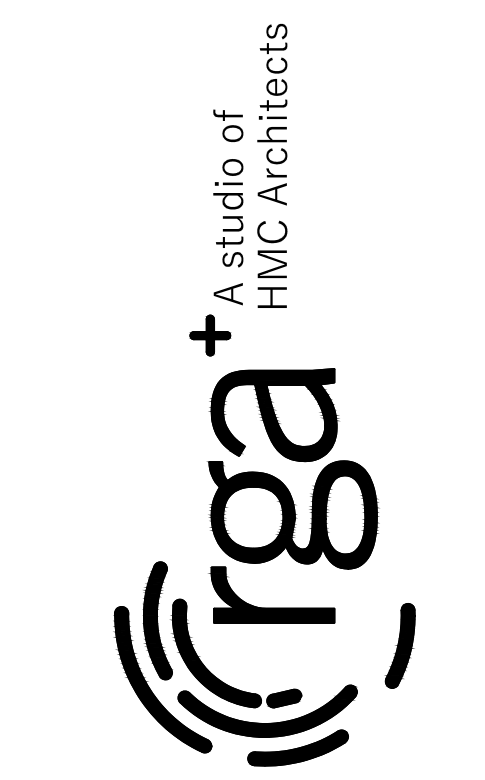


- NOTES:
1. HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 2. PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 3. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4\"/>

2 TRAFFIC RATED PULL BOX
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE



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SHADE STRUCTURE AT EARL WARREN
ELEMENTARY SCHOOL

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DETAILS

PROJECT NO. 1504.13
DATE: 3/21/2022
SHEET E3.1

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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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.
c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.
d. Test concrete (f'c).

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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.
• Foundation excavations are extended to proper depth and have reached proper material.
• Materials below footings are adequate to achieve the design bearing capacity.

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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

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:
• Mill certificates indicate material properties that comply with requirements.
• Material sizes, types and grades comply with requirements.
b. Test unidentified materials.
c. Examine seam welds of HSS shapes.
Inspection:
d. Verify and document steel fabrication per DSA-approved construction documents.

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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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 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.
Provide tests and inspections per CONCRETE section below.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

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.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

- 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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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.
Provide tests and inspections per CONCRETE section below.

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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

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.

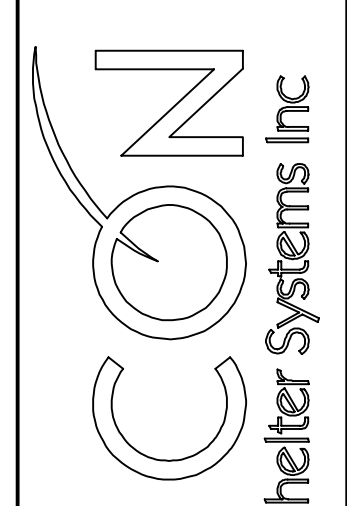
23. ANCHOR BOLTS AND ANCHOR RODS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Anchor Bolts and Anchor Rods
b. Threaded rod not used for foundation anchorage.

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DATE 4/2/2021
REV
REV DATE



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APP: 04-120013 PC
REVIEWED FOR
SS [x] FLS [x] ACS [x] CG [x]
DATE: 08/06/2021

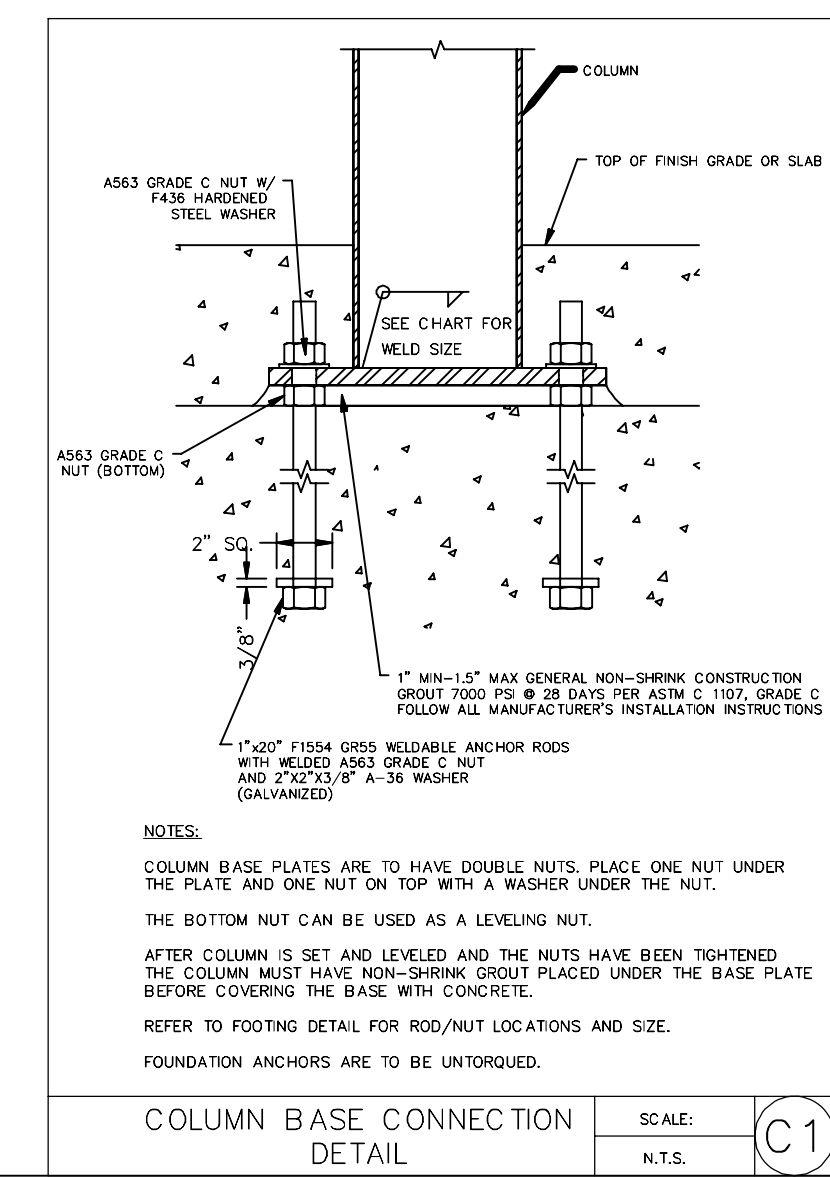
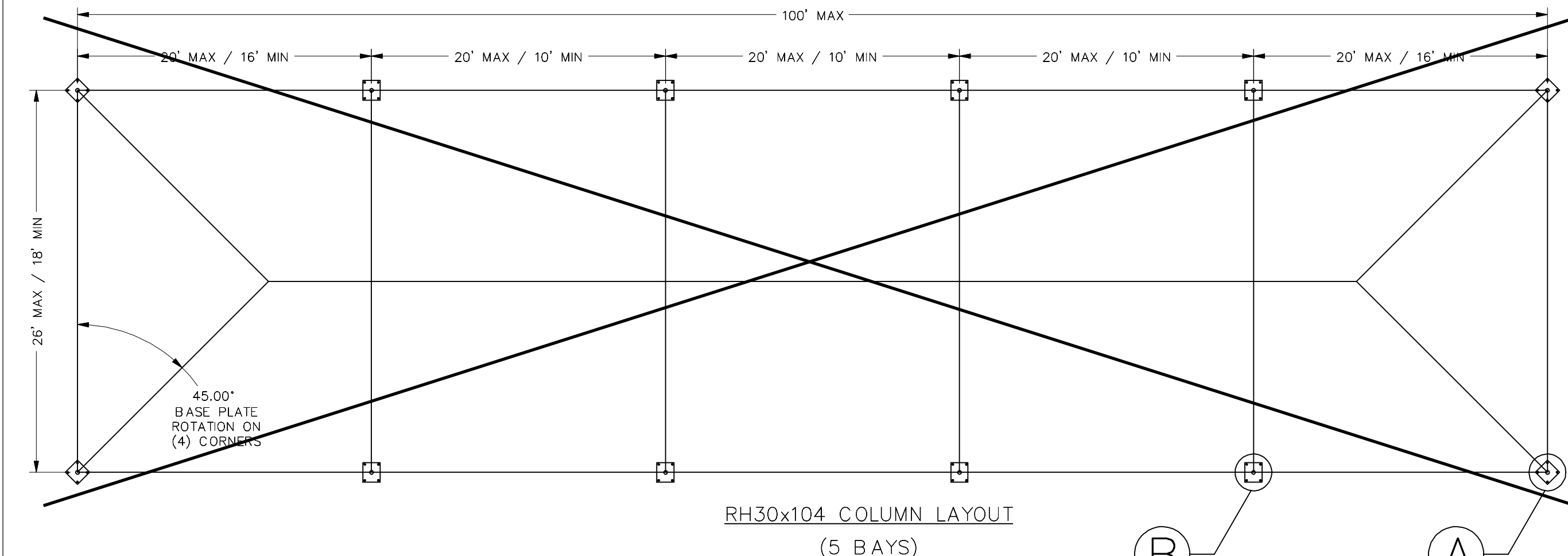
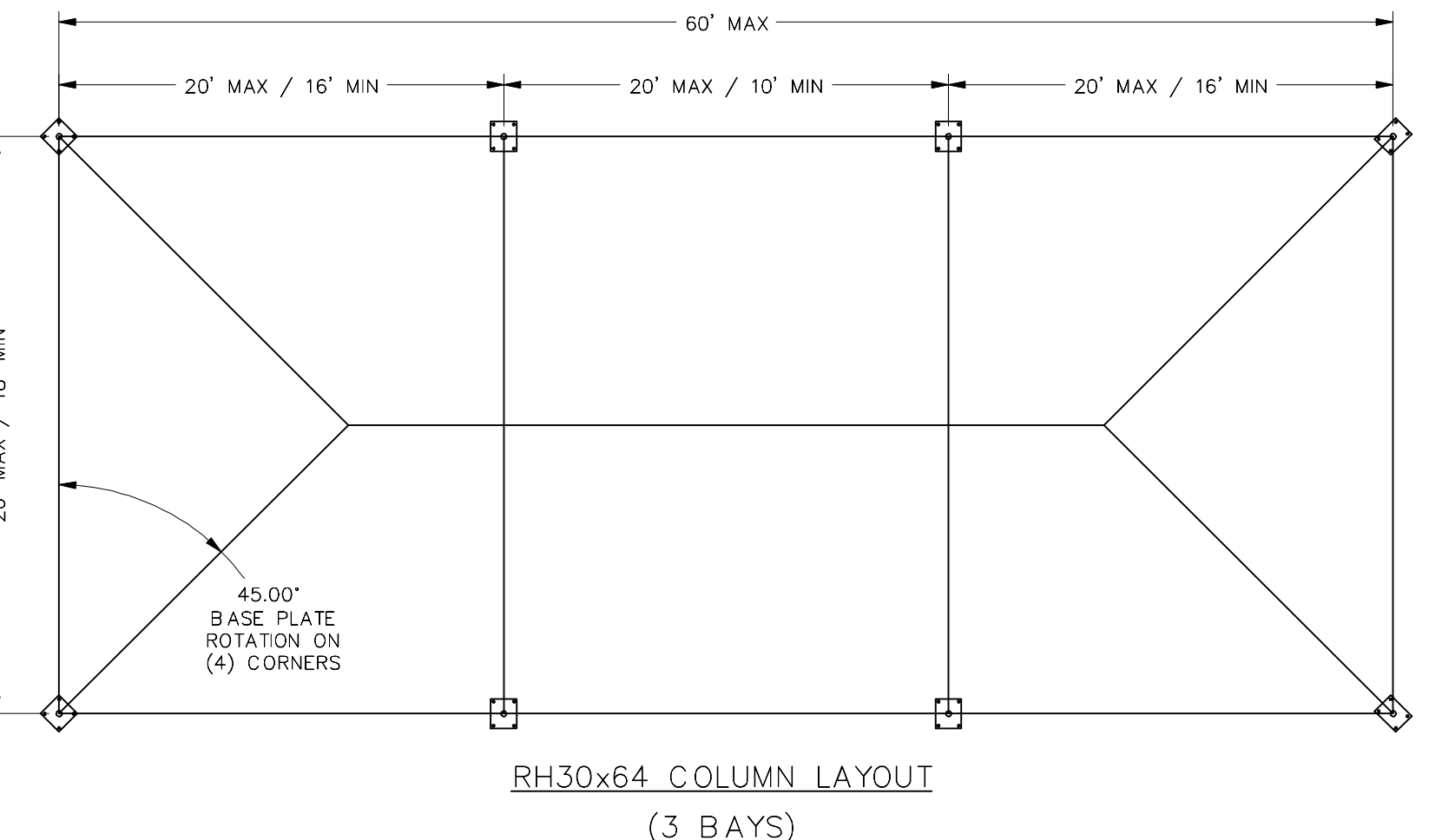
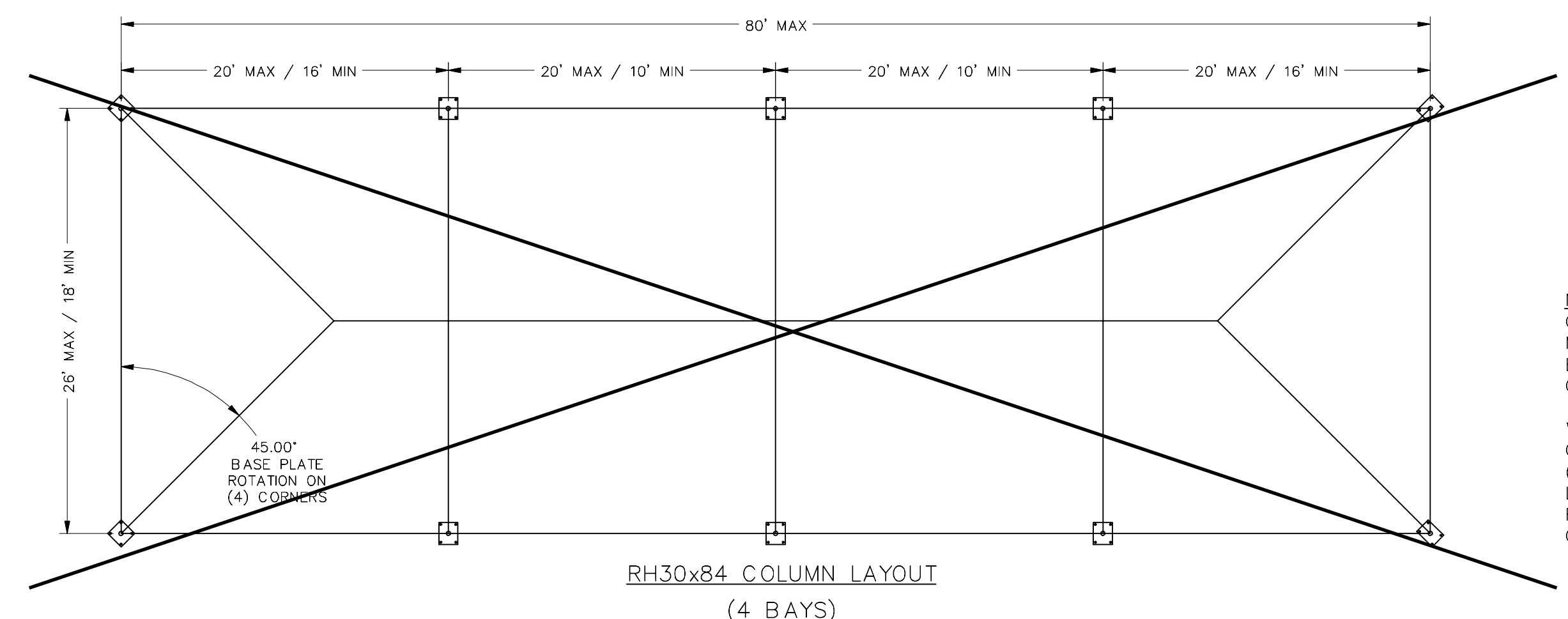
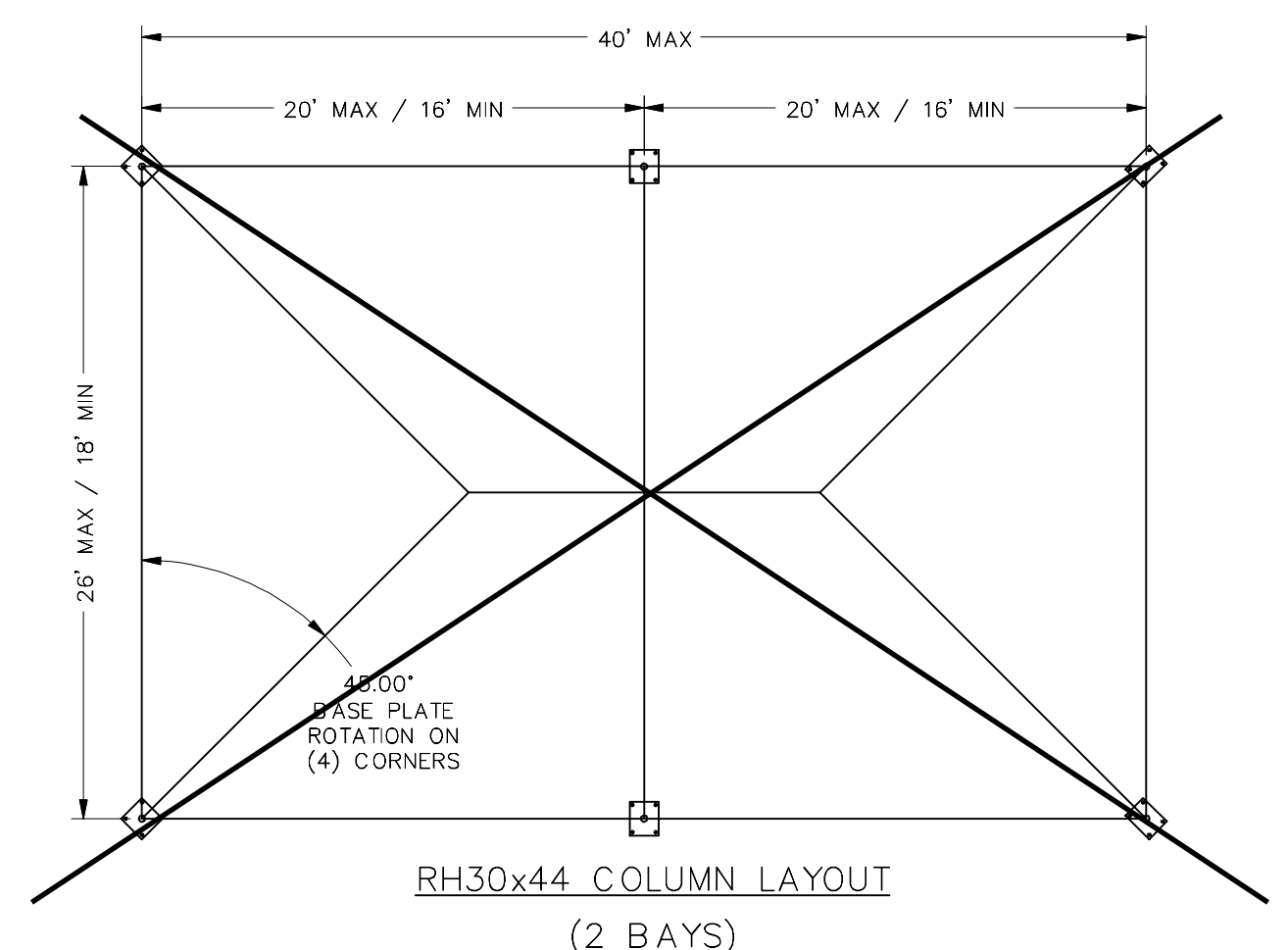
DSA 103



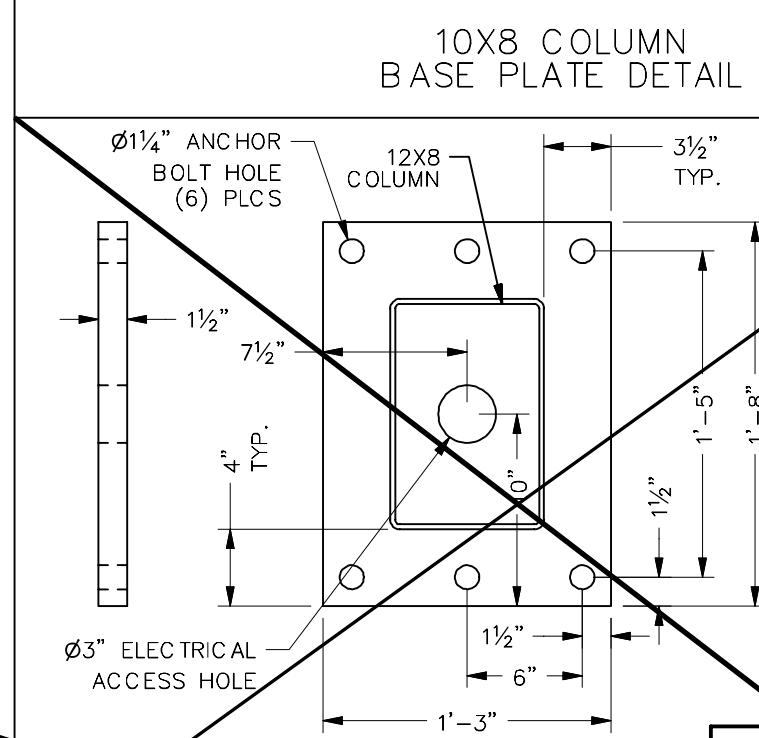
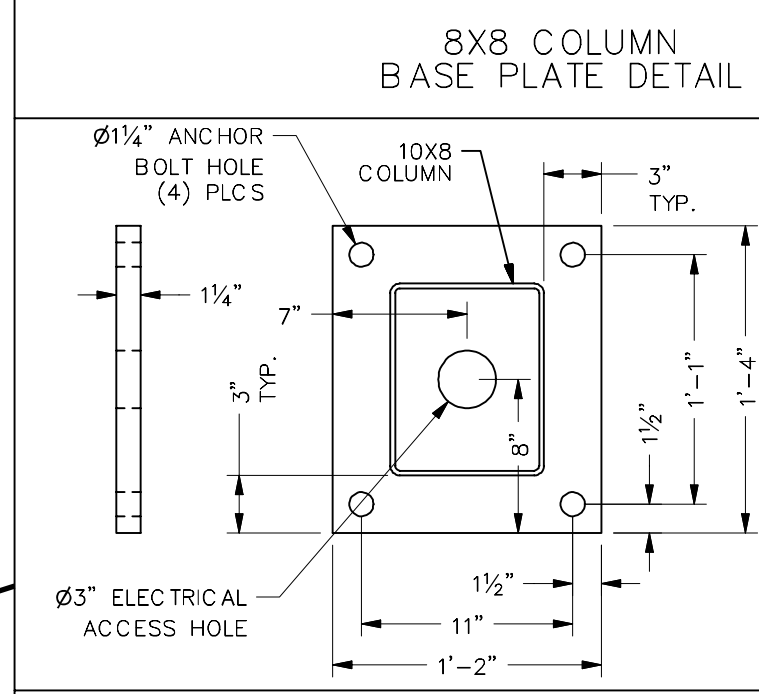
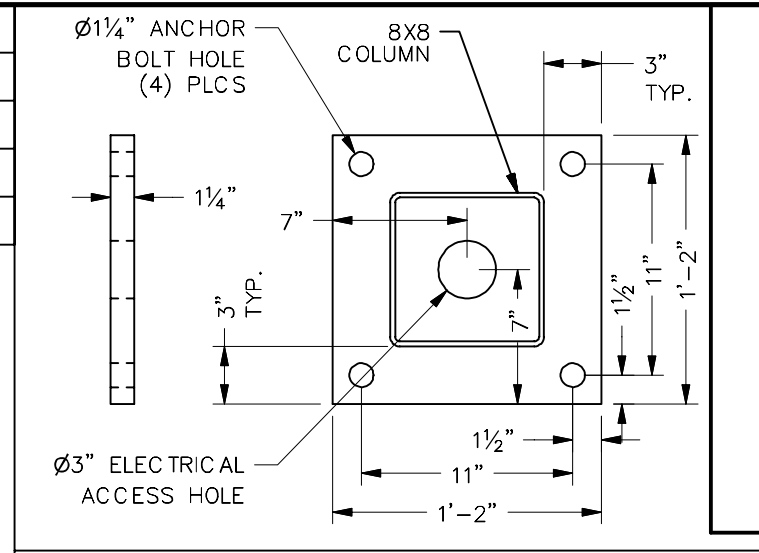
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616.396.0944 FX

LS1.1

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



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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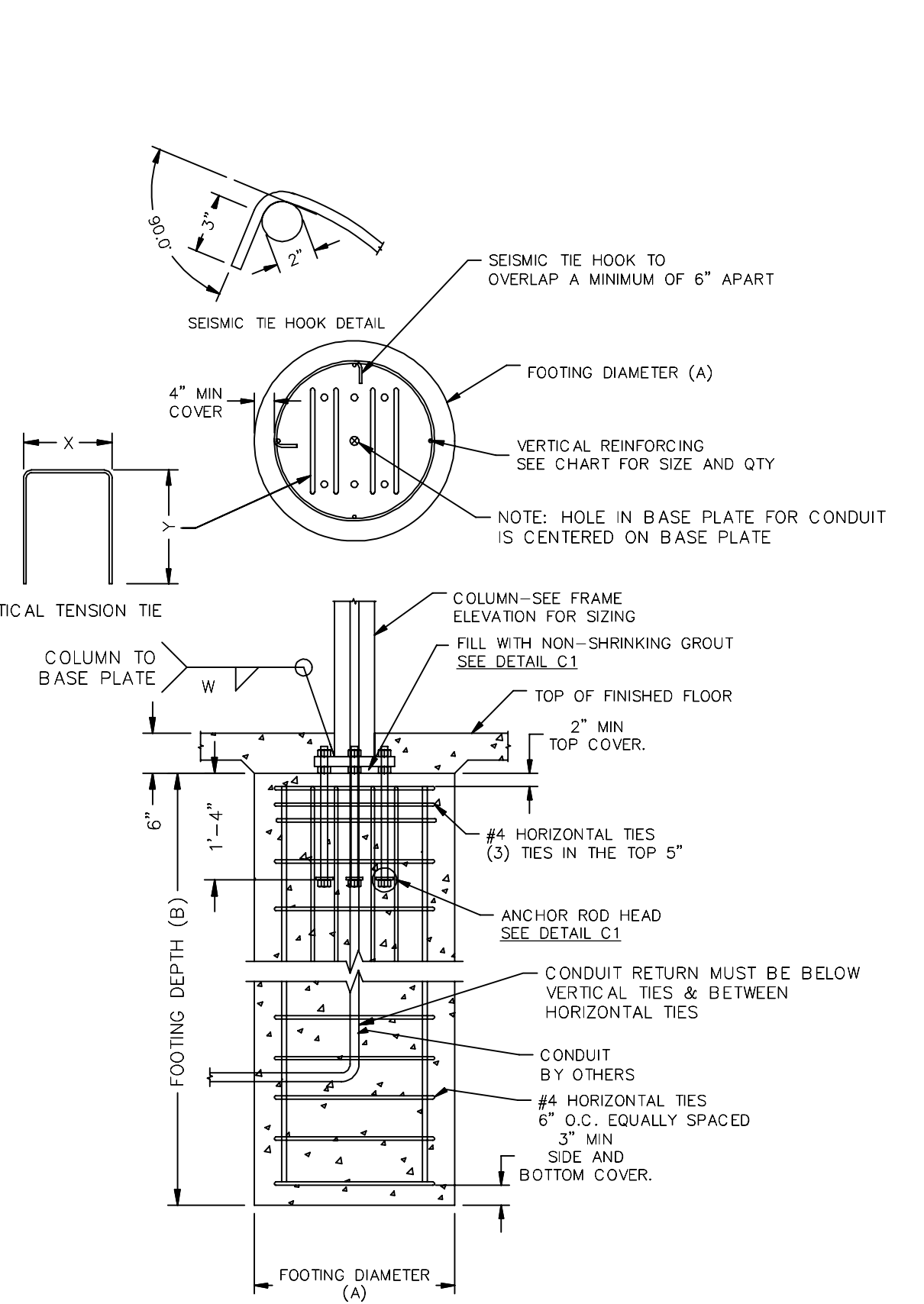
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REGISTERED PROFESSIONAL ENGINEER
 ANGELO D. FORNARI
 LICENSE NO. 5000
 STATE OF CALIFORNIA
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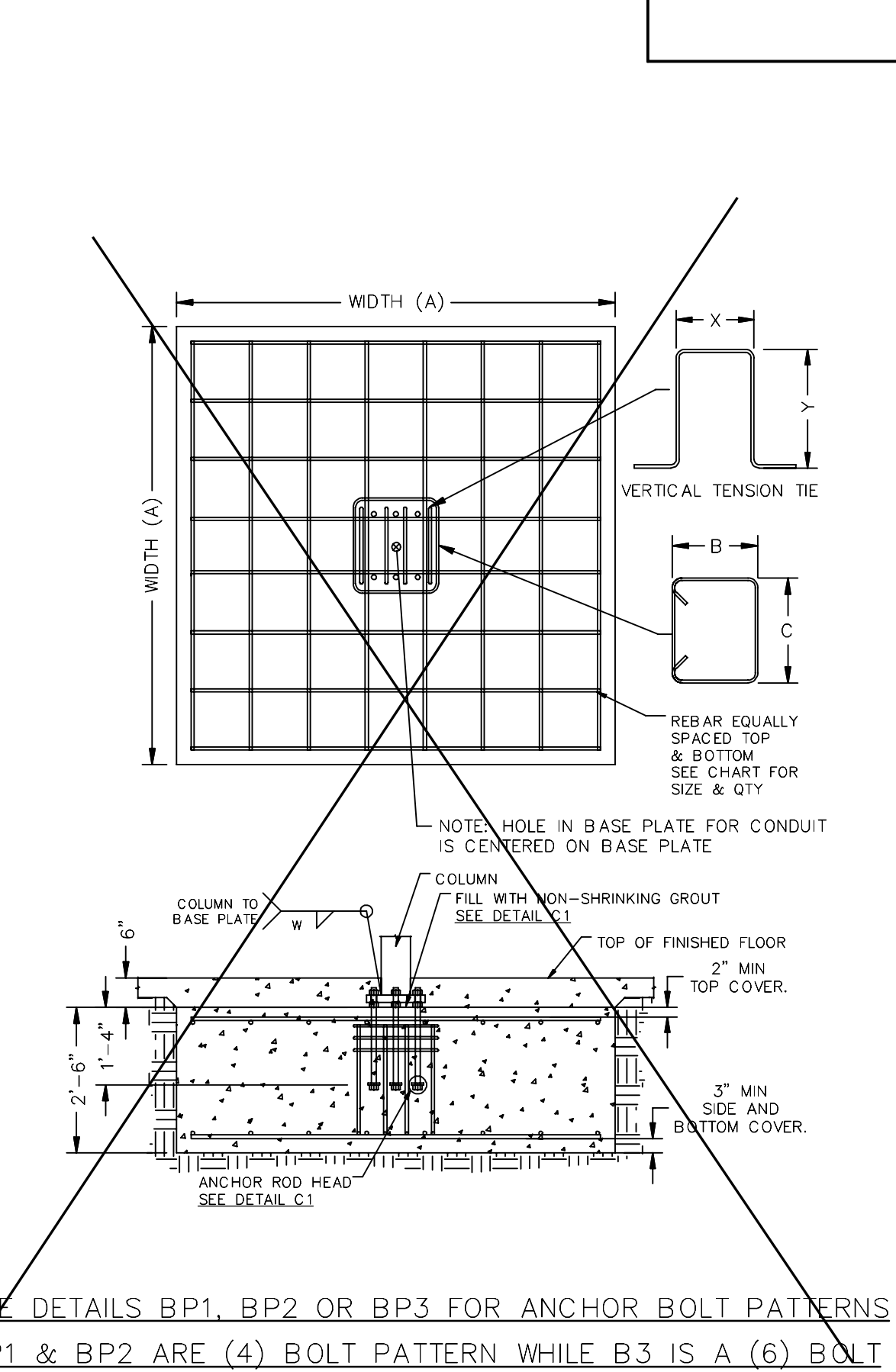
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30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Rebar Size
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	69	30	5	6	16	20	15.6	19.3	5	1/4
Soil Class 3 - 3000 psf Bearing	69	30	5	6	66	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	70	30	5	6	16	20	15.6	19.3	5	5/16
Soil Class 3 - 3000 psf Bearing	70	30	5	6	68	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	72	30	5	6	20	20	16.6	21.3	5	1/4
Soil Class 3 - 3000 psf Bearing	72	30	5	6	70	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

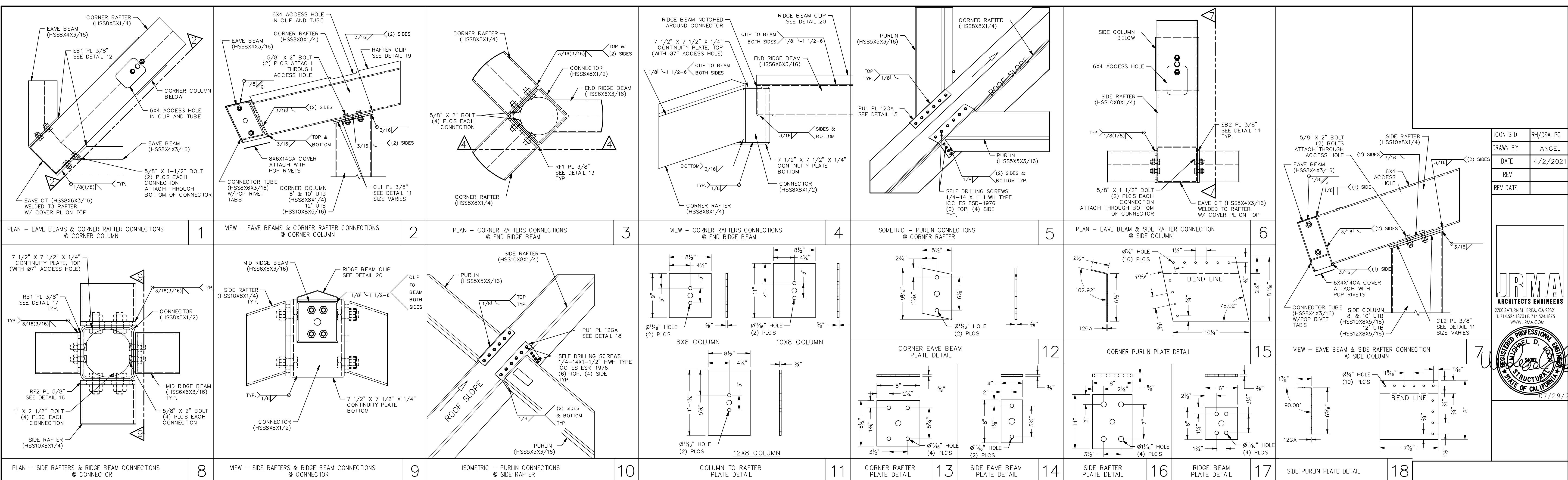
PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

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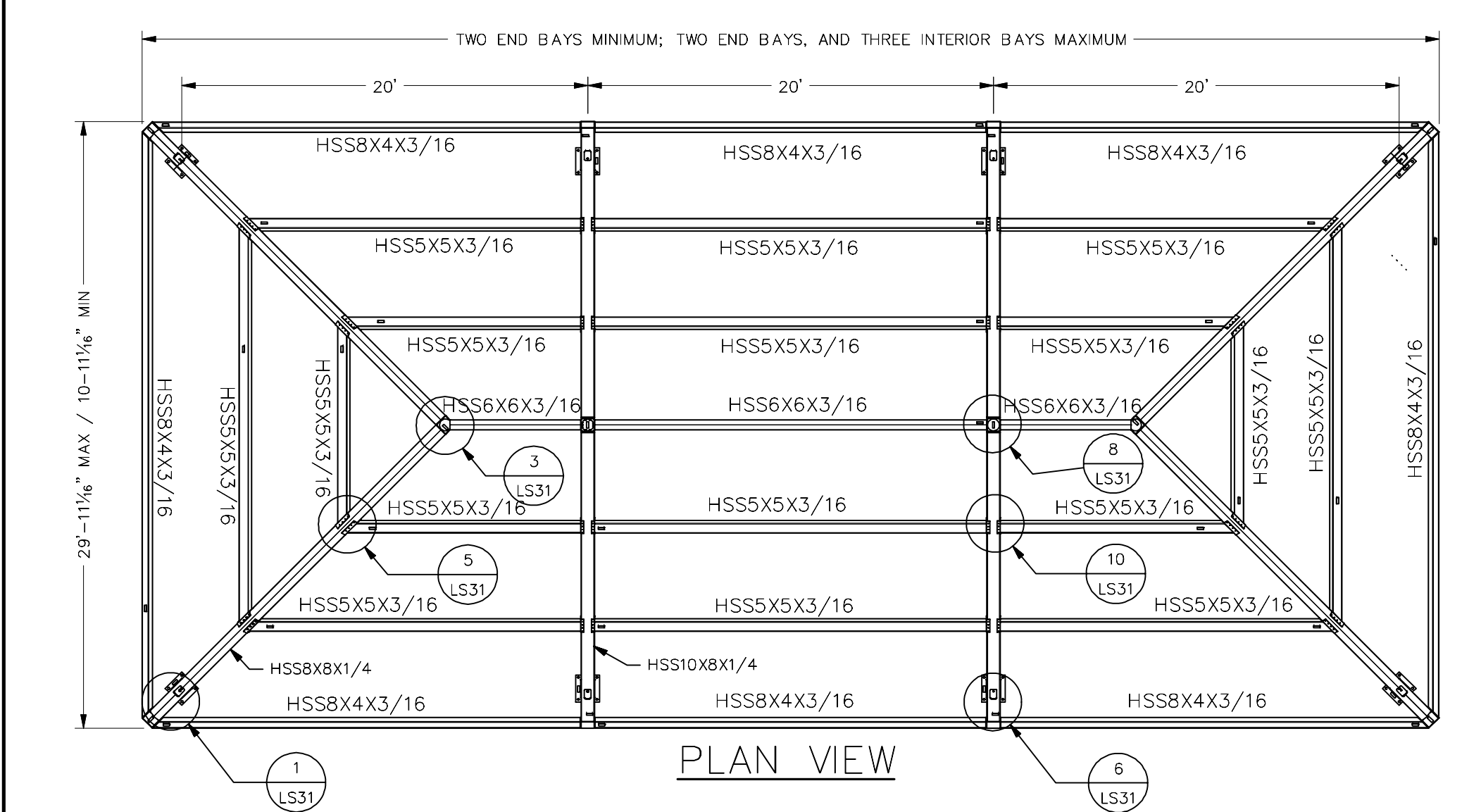
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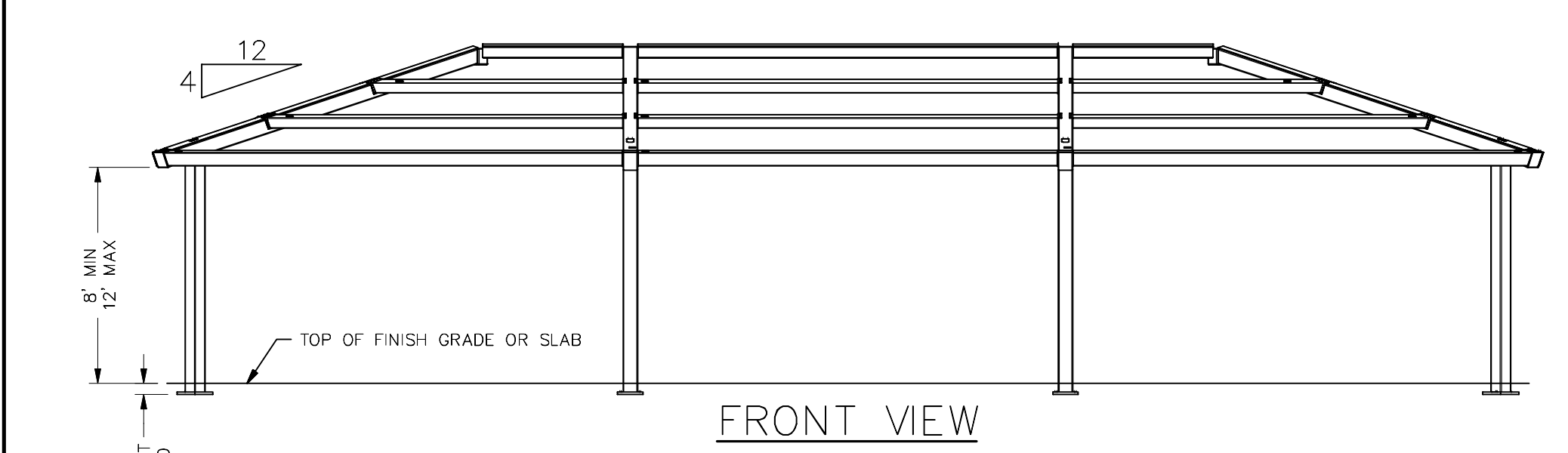
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ANGELO D. JOY
STATE OF CALIFORNIA
7/29/2021



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

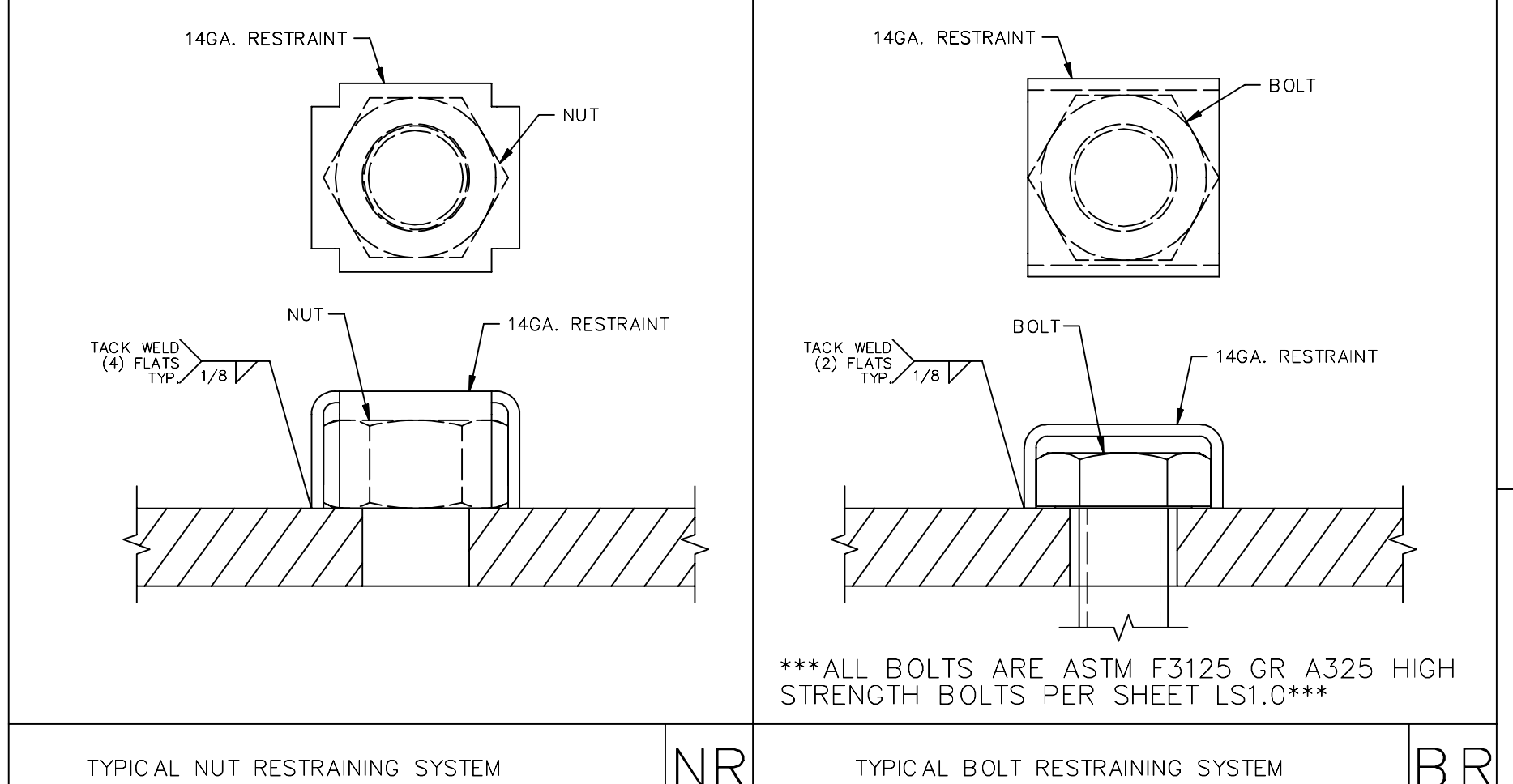


*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

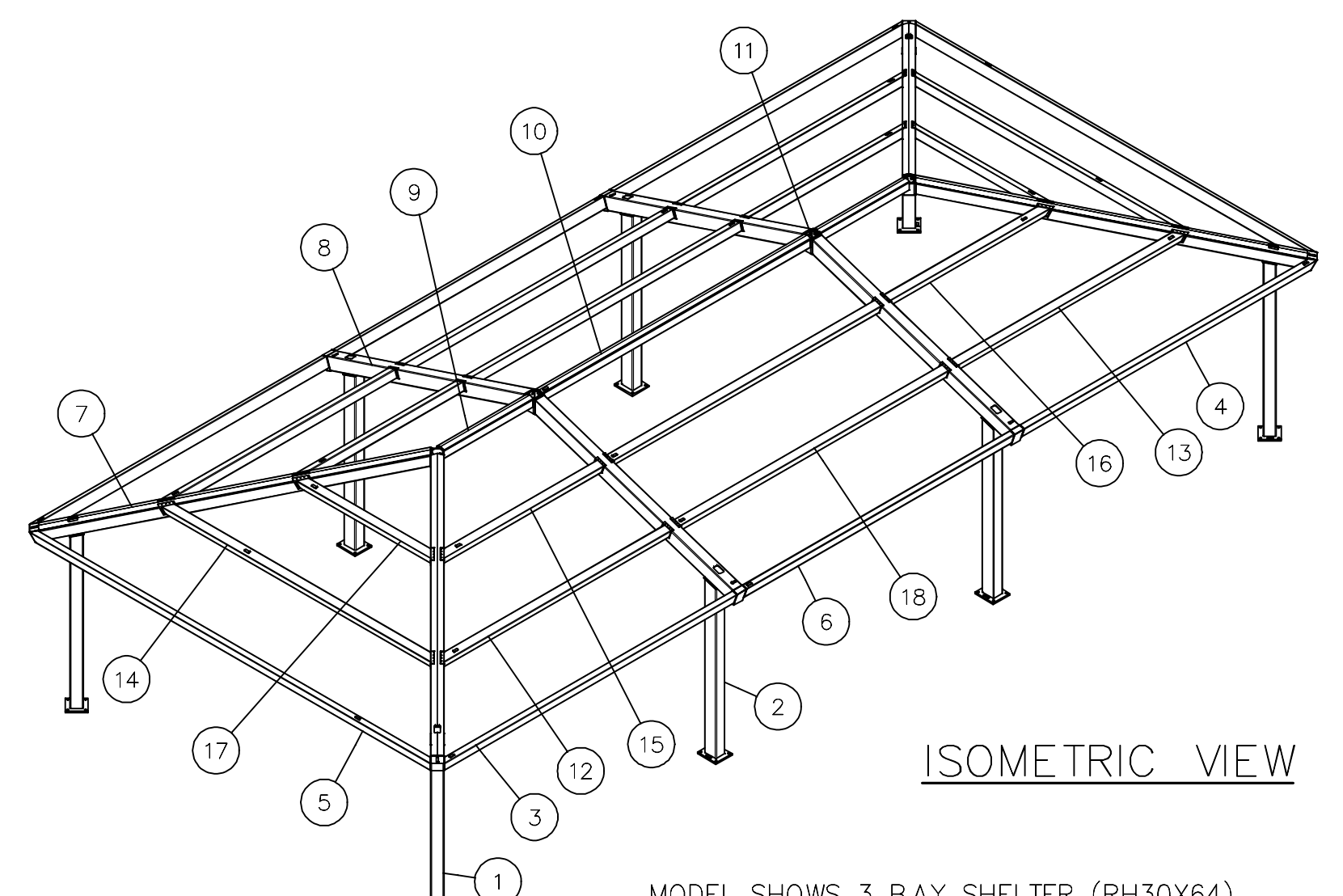
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE 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.

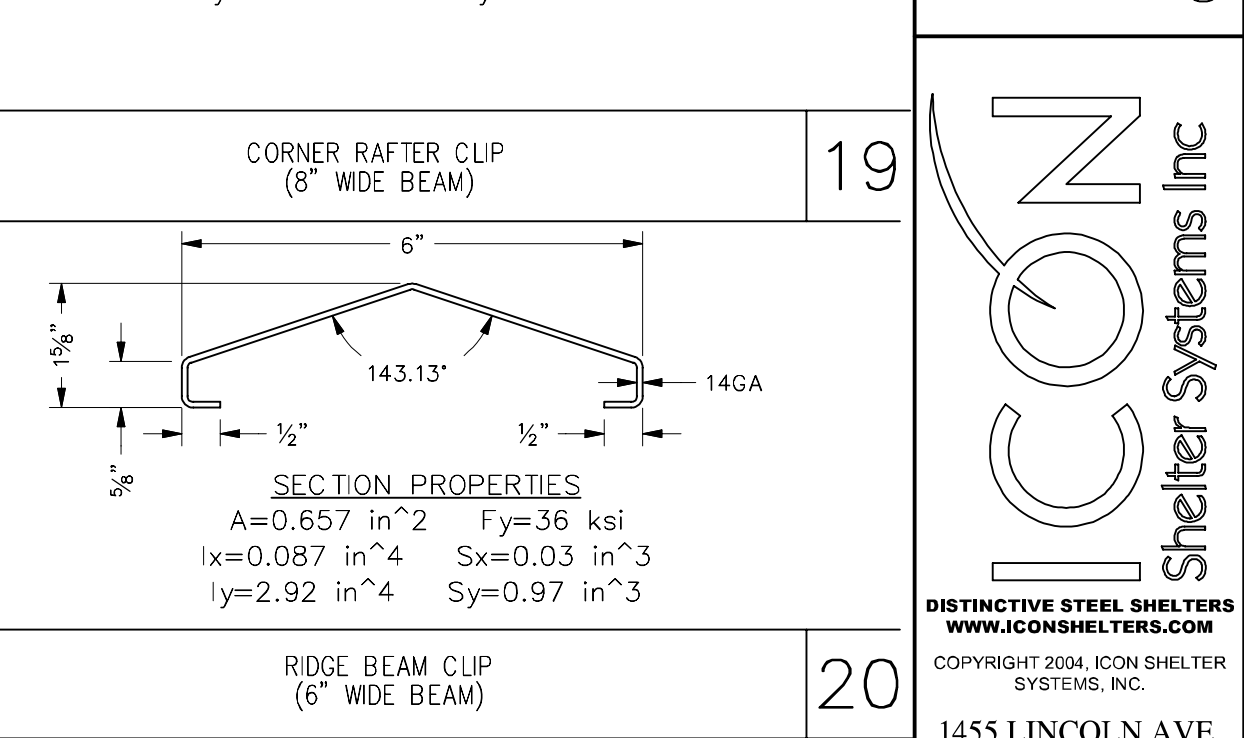
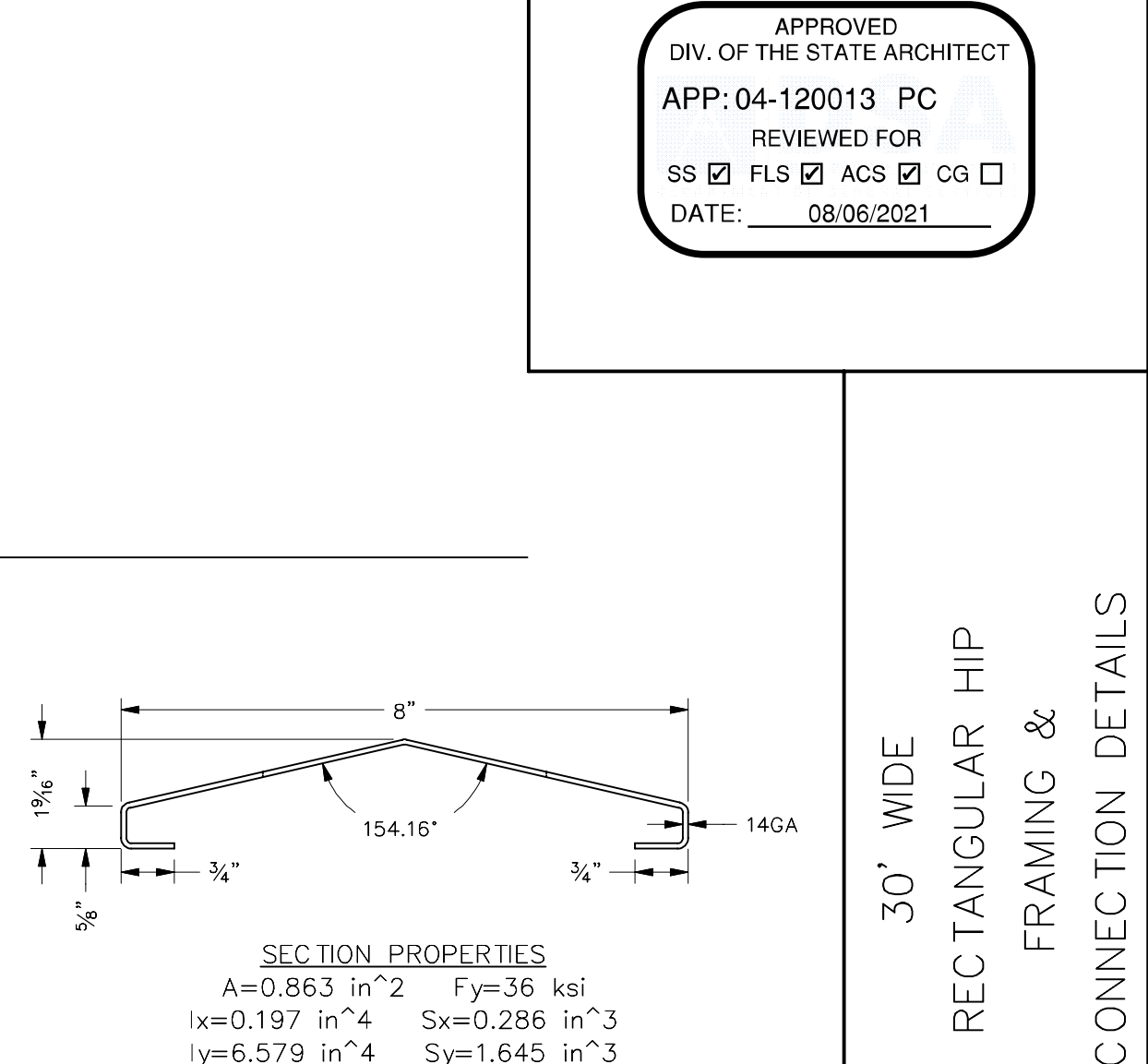
- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)



ALL BOLTS ARE ASTM F3125 GR A325 HIGH STRENGTH BOLTS PER SHEET L51.0



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

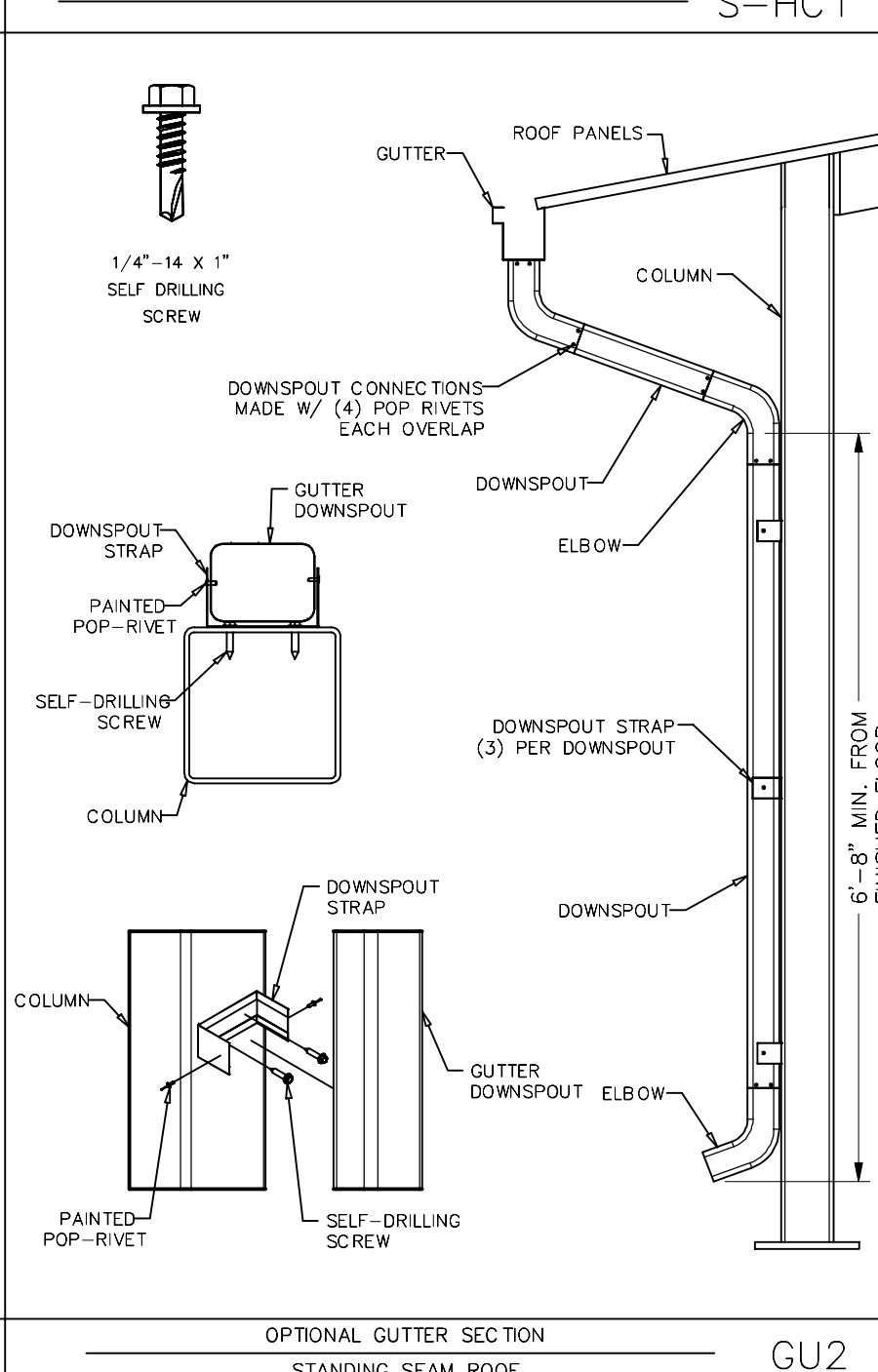
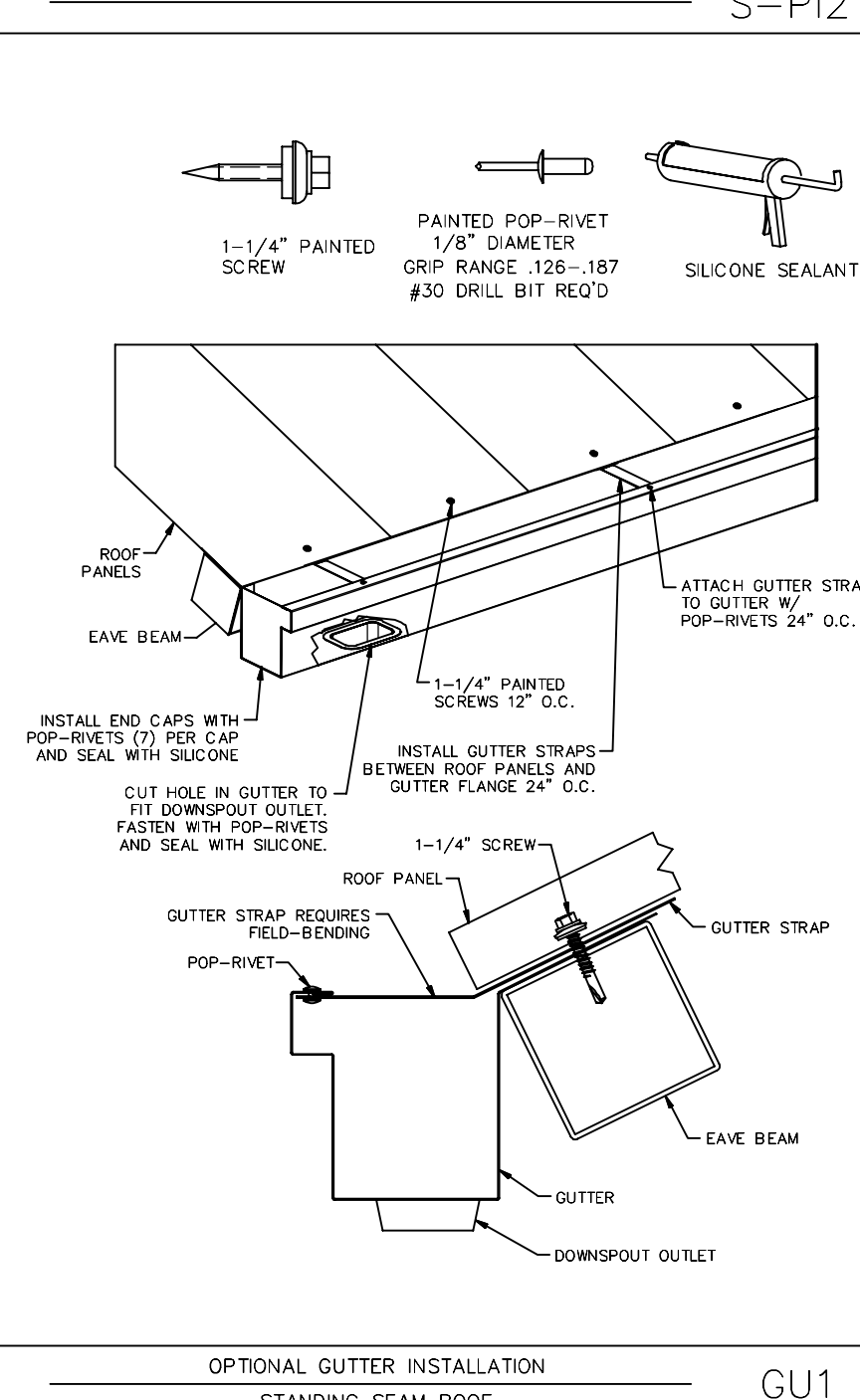
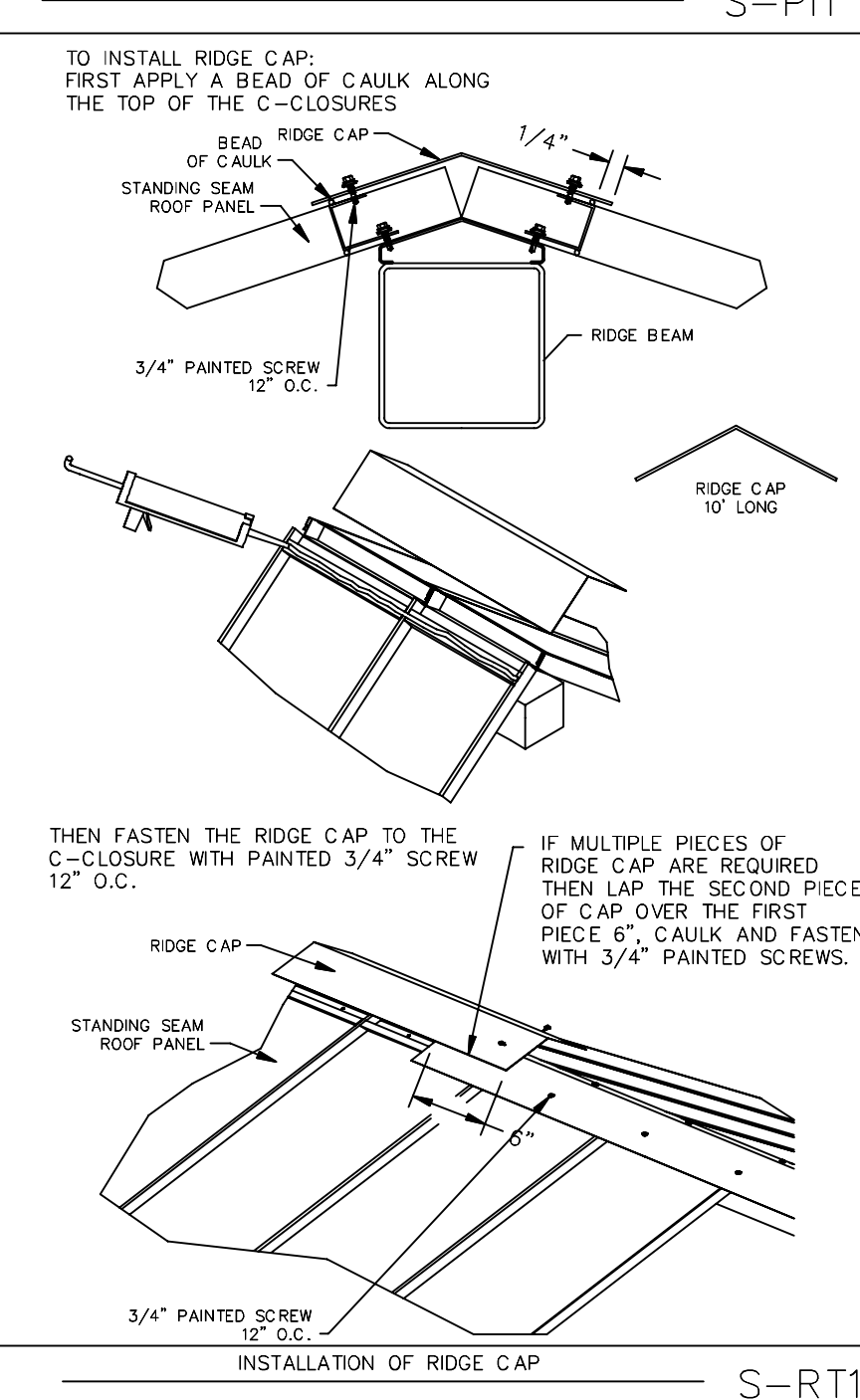
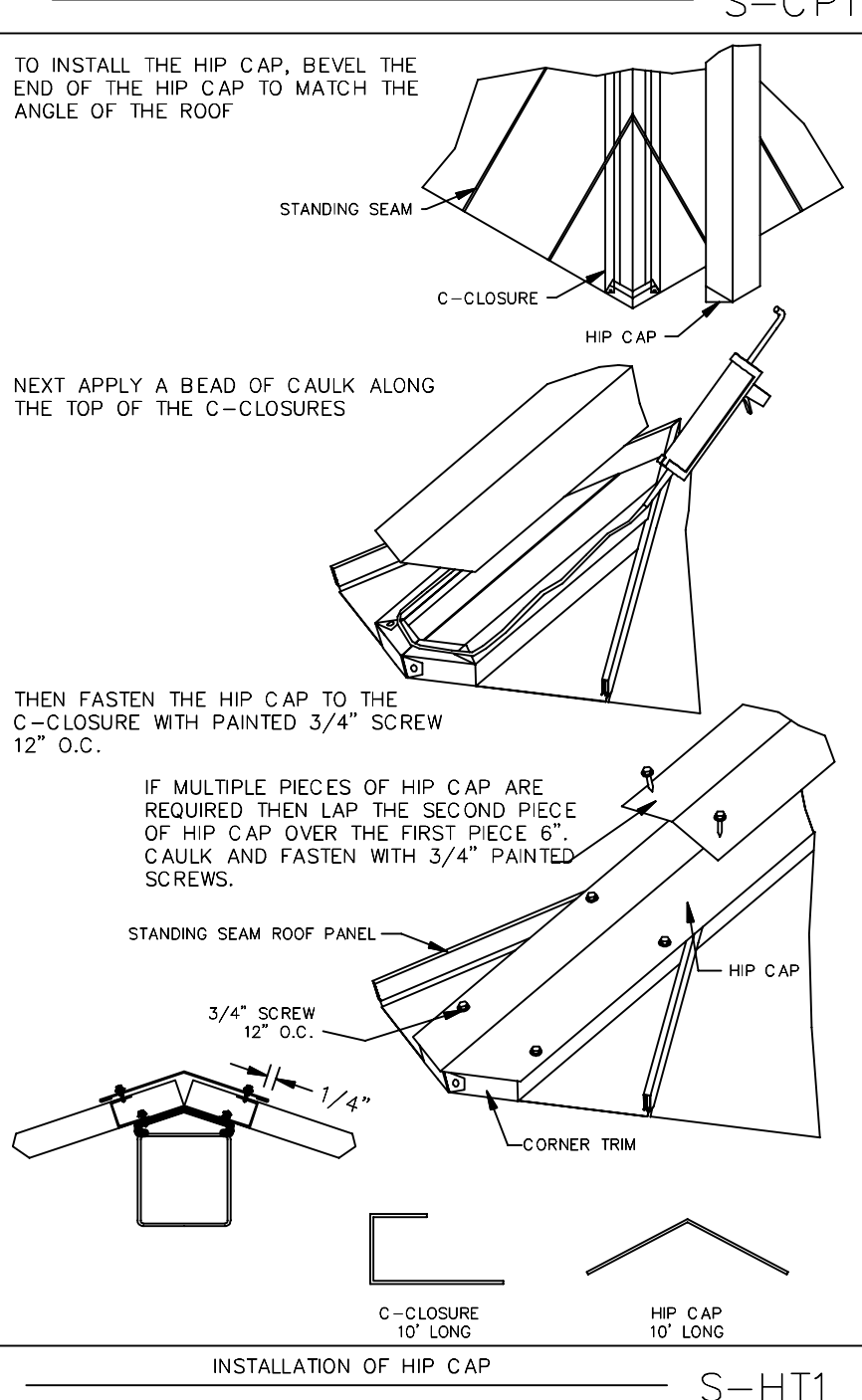
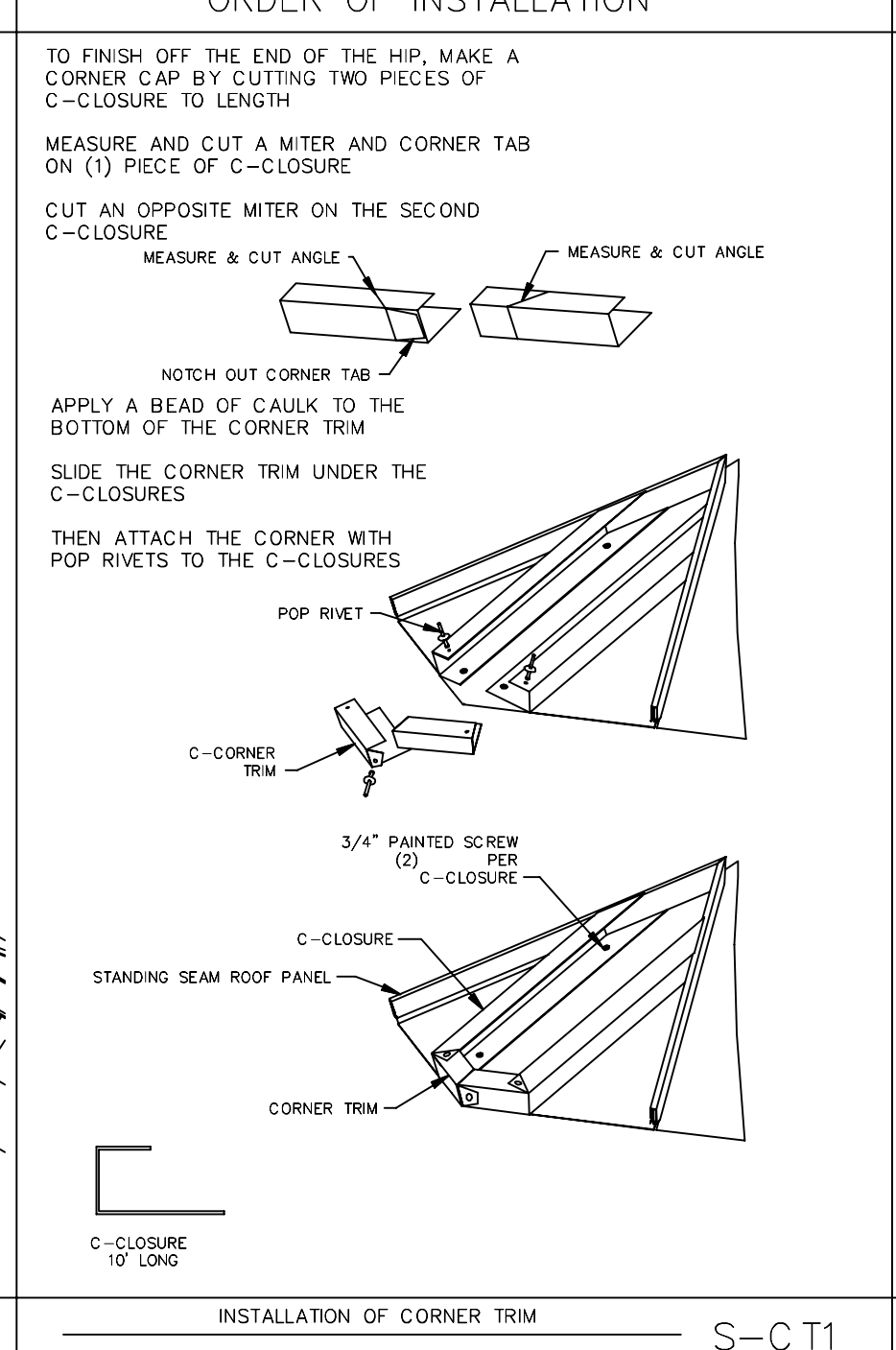
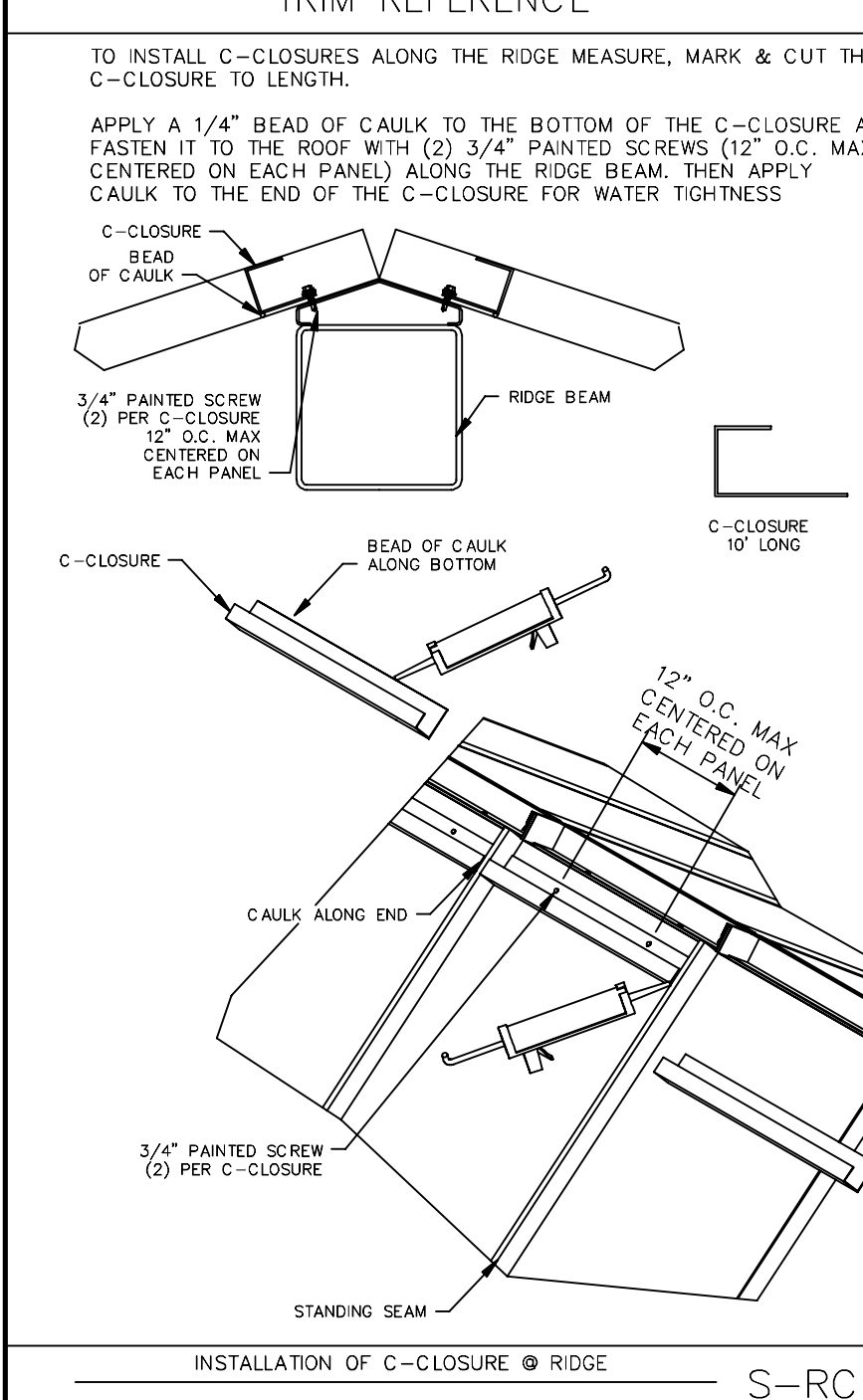
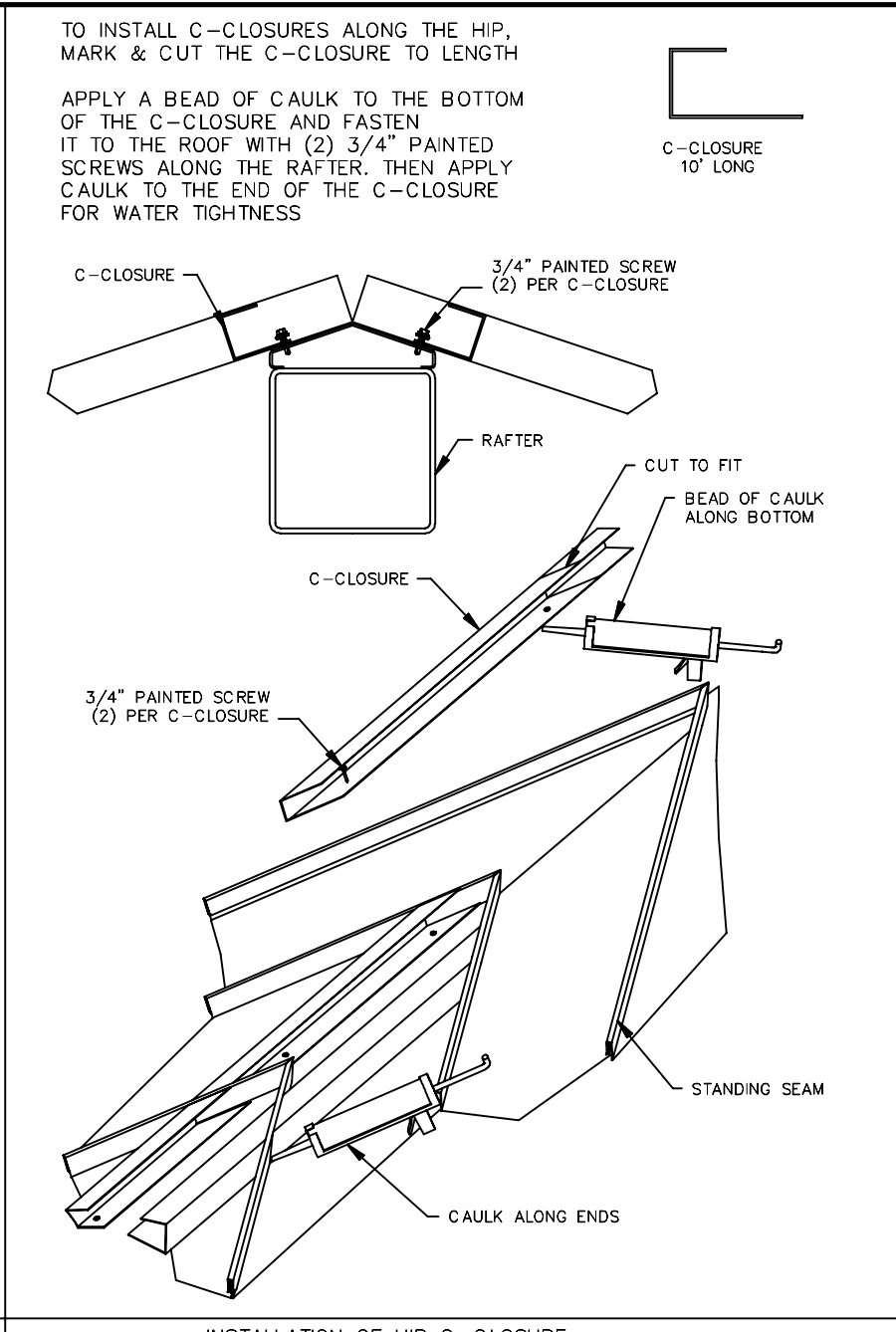
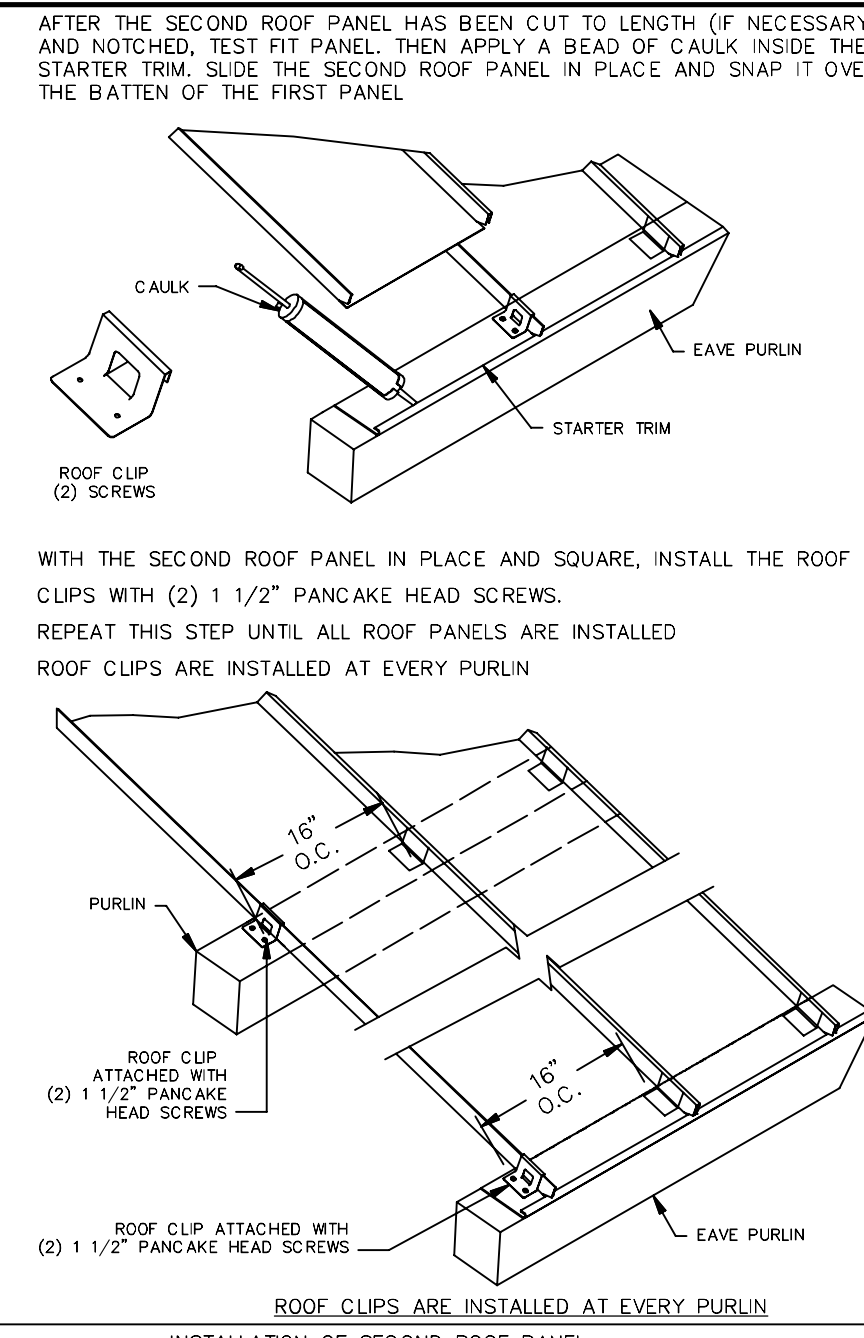
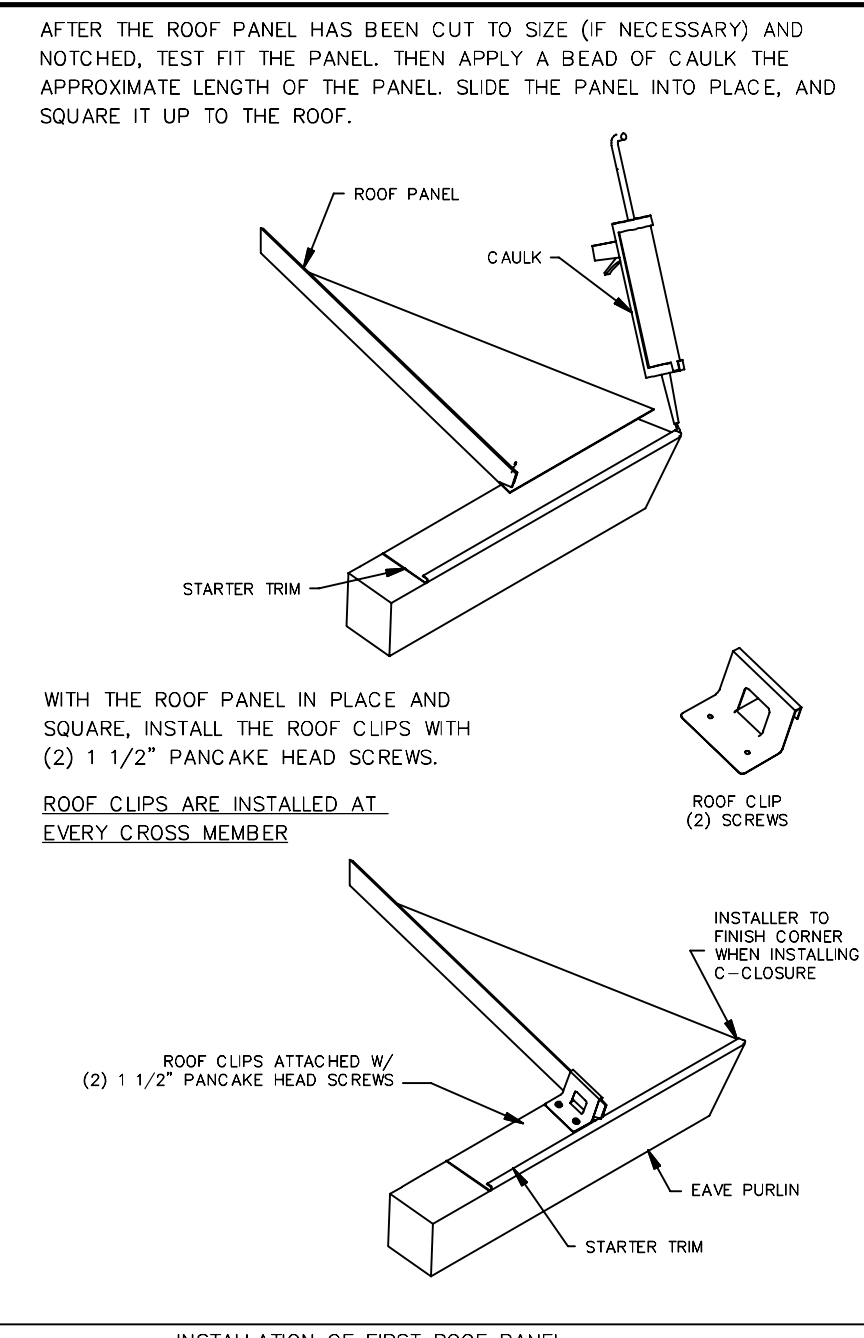
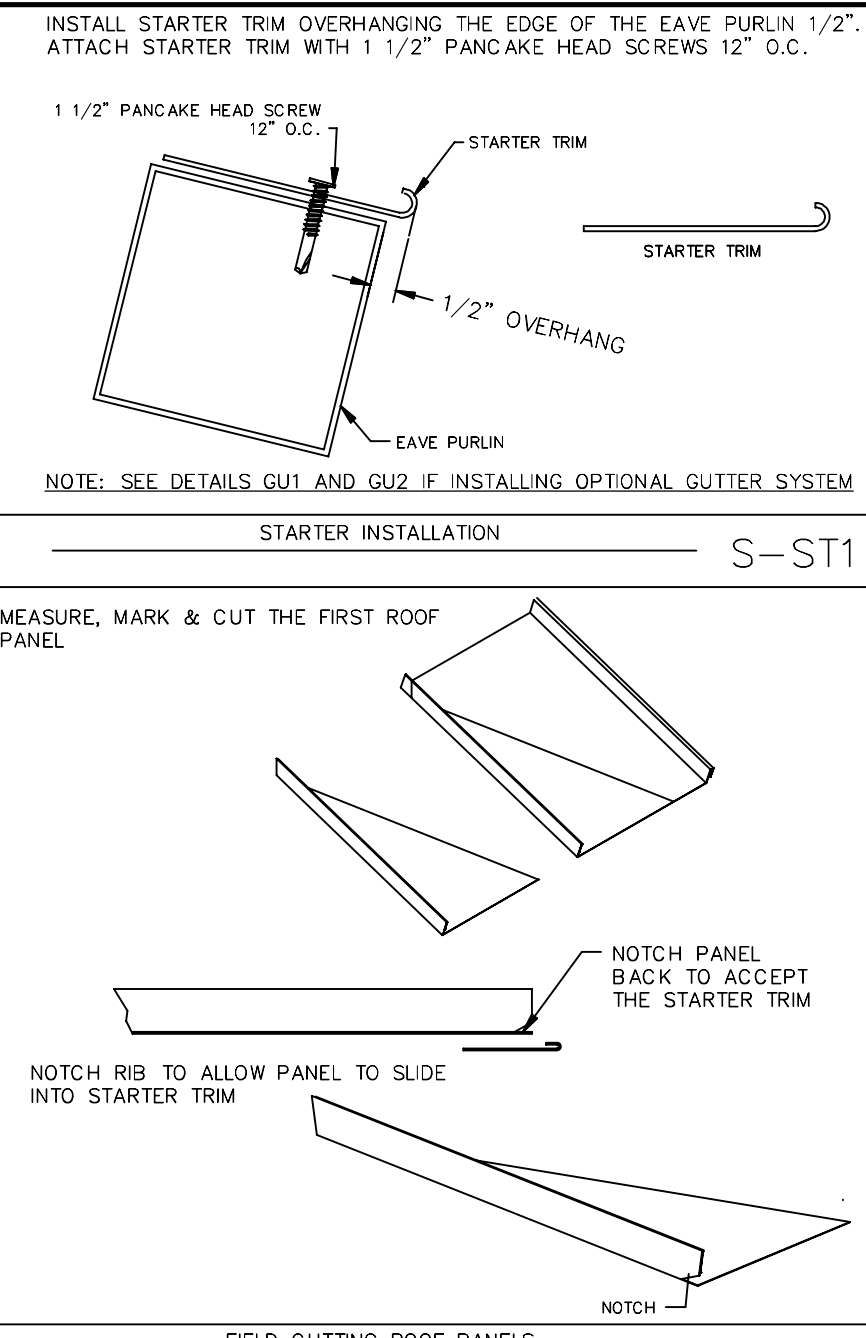
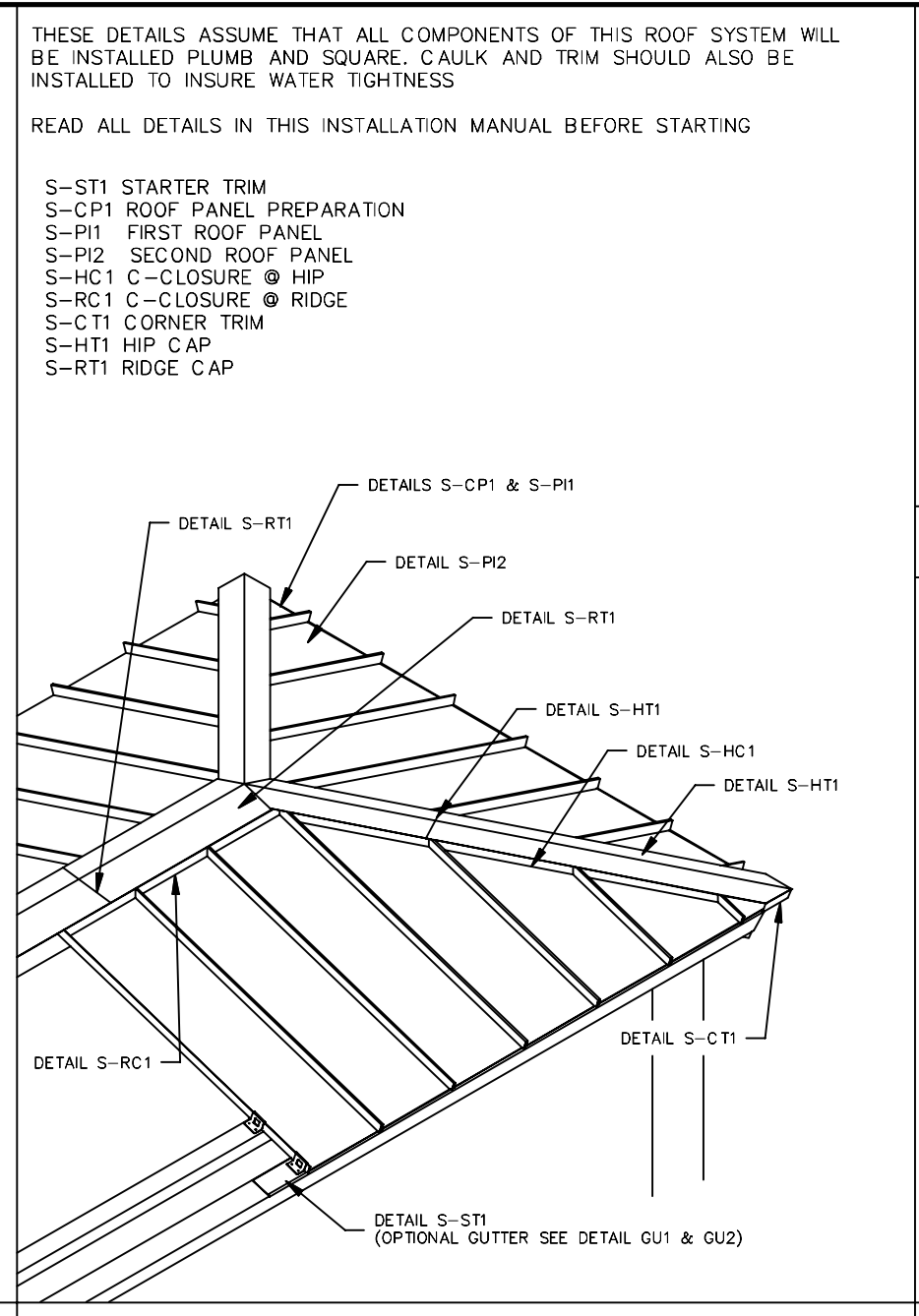
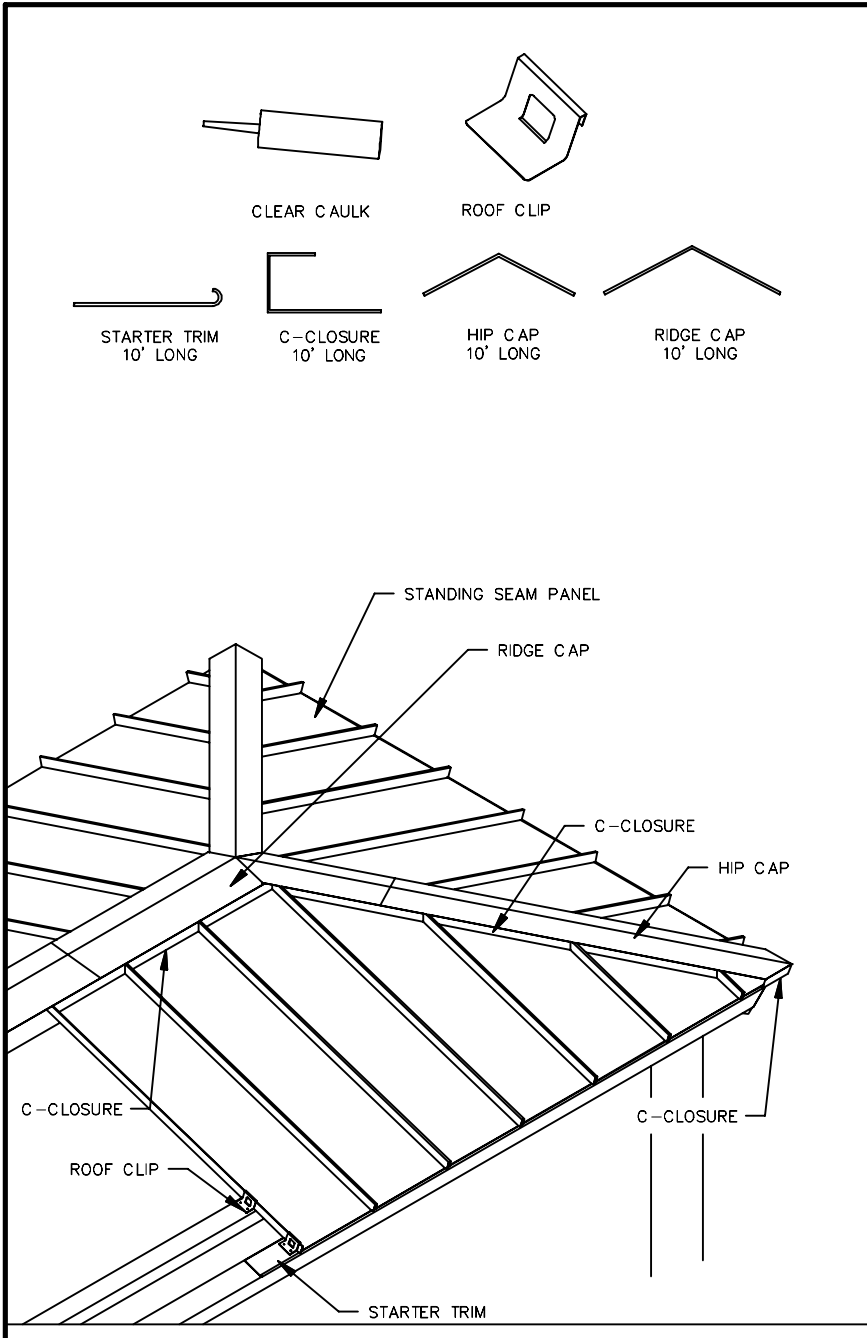


30' WIDE RECTANGULAR HIP FRAMING & CONNECTION DETAILS

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

LS3.1



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.

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL IS VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

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, DESIGNS 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
HWH
ICC ESR-1976

1 1/2" PANCAKE HEAD SCREW 12-24 x 1 1/2" SD5
ICC ESR-1976

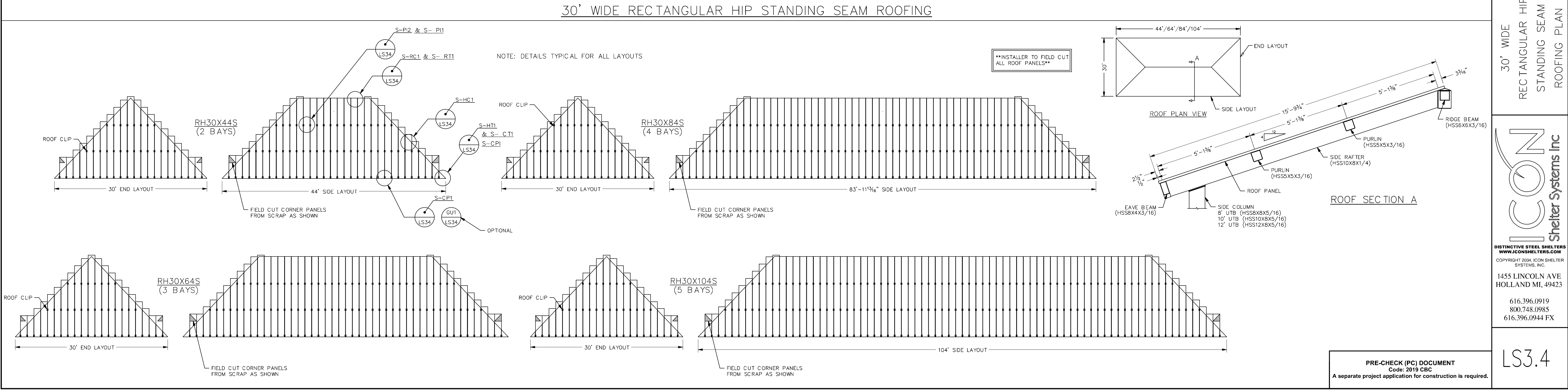
16" COVER WIDTH

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

SECTION PROPERTIES (PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.086 in⁴
Sx=0.0561 in³
Mx=1.68 in-kips

BOTTOM IN COMPRESSION
Ix=0.040 in⁴
Sx=0.0479 in³
Mx=1.248 in-kips



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DATE 4/2/2021
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ARCHITECT
STATE OF CALIFORNIA
17/29/2021

30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING PLAN

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LS3.4

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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.

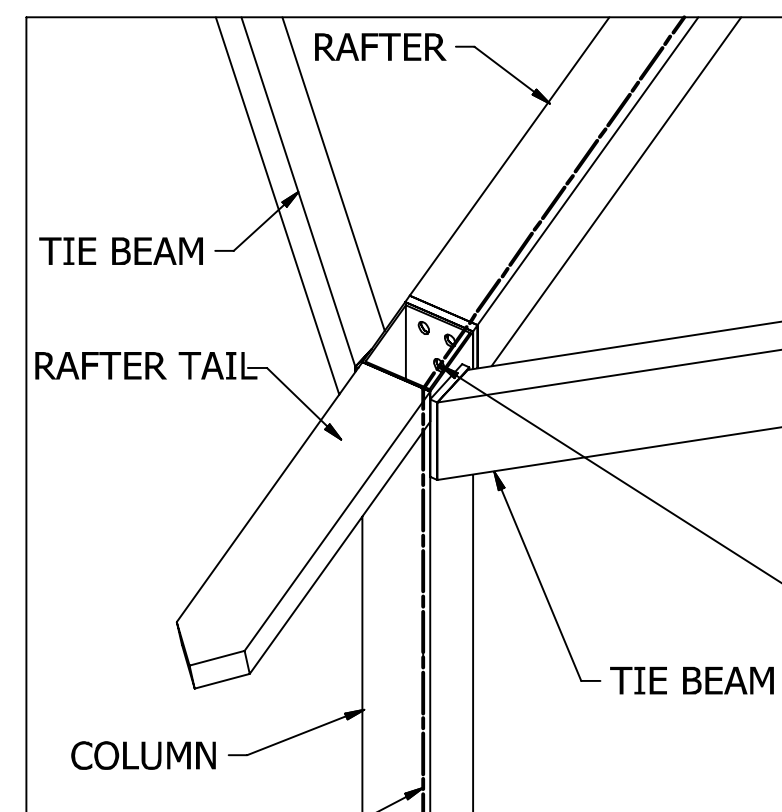
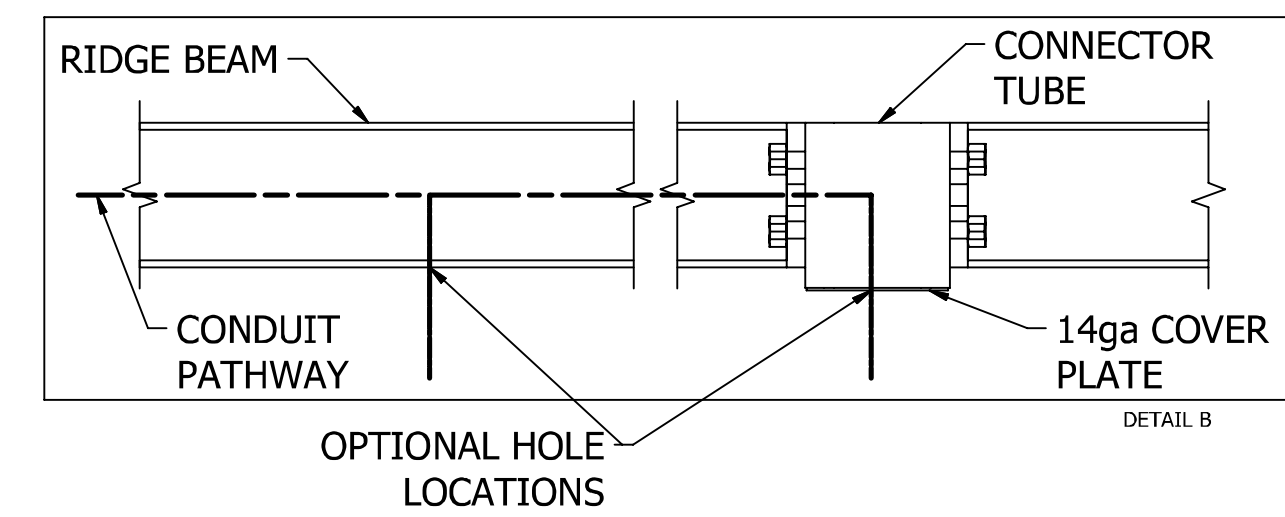
PRELIMINARY: NOT FOR CONSTRUCTION

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

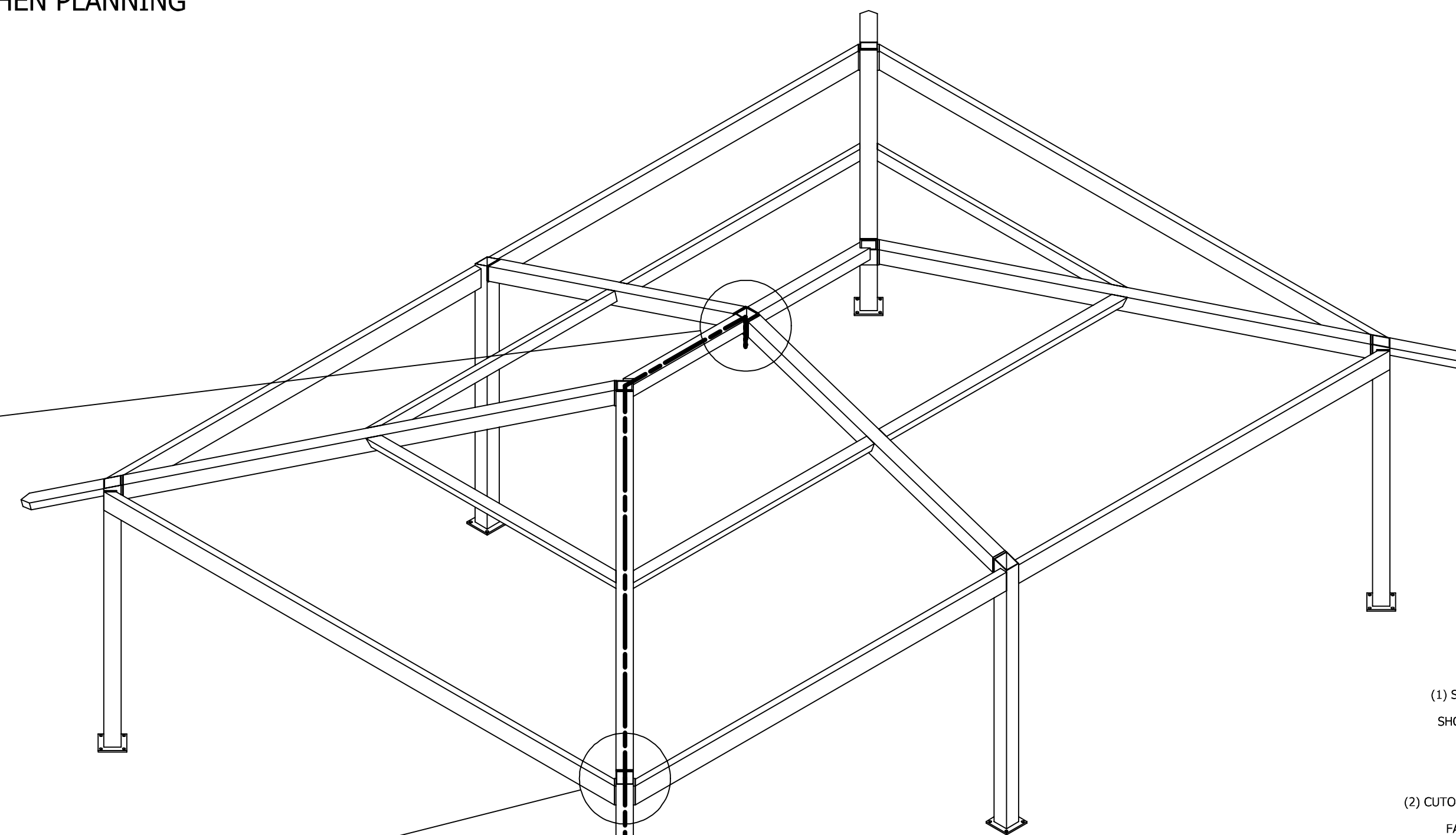
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



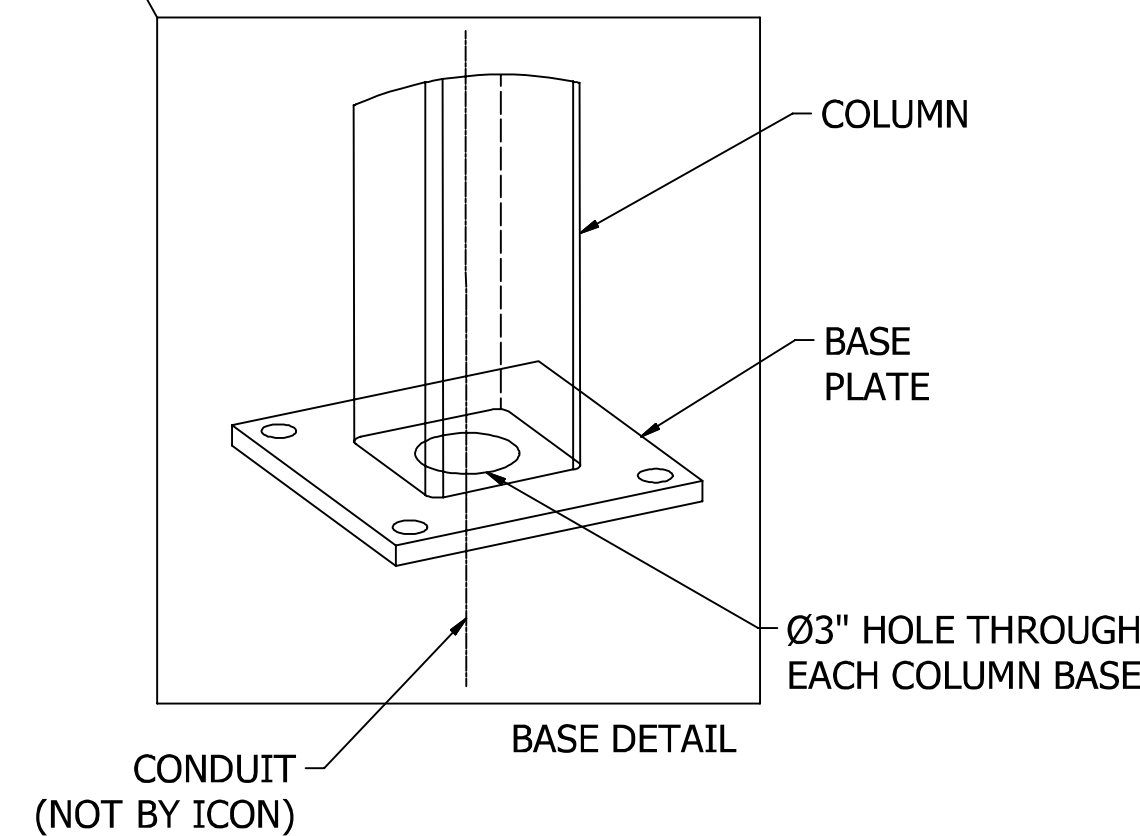
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

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

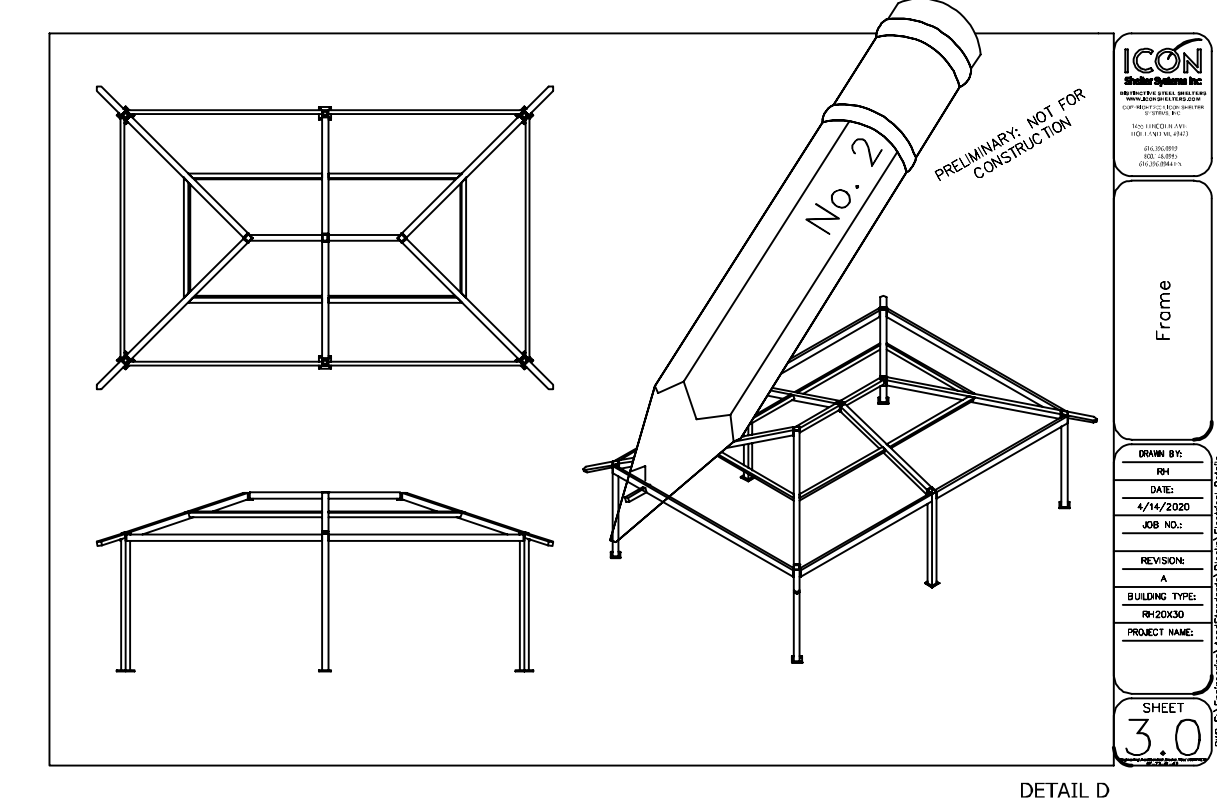
NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.



CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.

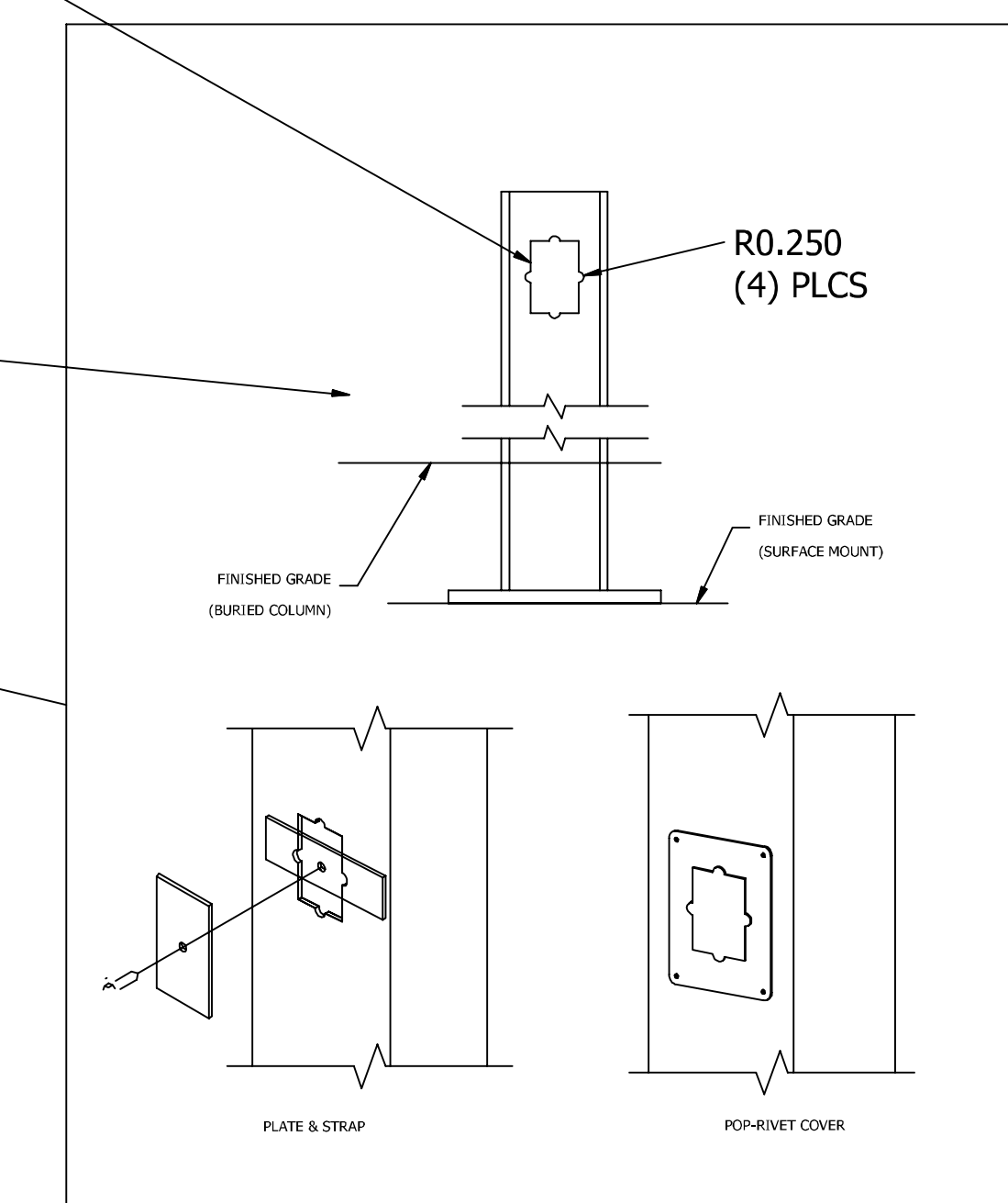


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



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? _____

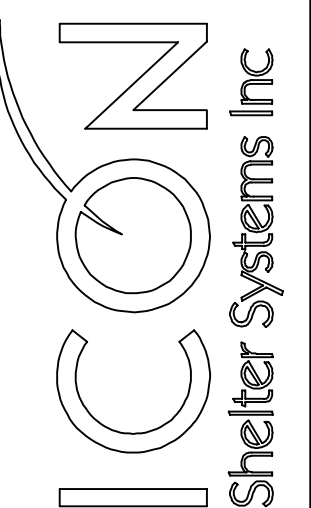
ICON STD	RH/DSA-PC
DRAWN BY	ANGEL
DATE	4/2/2021
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST IRRISA, CA 92621
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
ANGEL D. JOY
NO. 50892
EXPIRES 12/31/2021
STATE OF CALIFORNIA

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

ELECTRICAL ACCESS



DISTINCTIVE STEEL SHELTERS
WWW.ICONSHelters.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

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

LS5.0

Abbreviations:	
A	Angle
ACOUS	Acoustical
AGGR	Aggregate
ALUM./AL	Aluminum
AD	Area Drain
A.V.	Audio Visual
AUT.O.	Automatic
BM	Beam
BLK	Block
BLKG.	Blocking
BO.	Boat
BOT	Bottom
BLDG.	Building
CAB.	Cabinet
CATV	Cable T.V.
C.I.	Cast Iron
CLG.	Caulking
CLKG.	Catch Basin
CNTR./CTR.	Center
CEK	Ceramic
CB	Chain Link
CB	Classroom
CLR	Clear
C.W.	Cold Water
COL.	Column
CONC.	Concrete
C.M.U.	Concrete Masonry Unit
CONN.	Connection
CONST.	Construction
C.J.	Construction Joint
CONT.	Control Joint
CONT.	Continuous
CONTR.	Contractor
CORS	Corridor
C.M.P.	Corrugated Metal Pipe
C.Y.	Cubic Yard
CUST.	Custodian
D.	Deep/Depth
DET / DTL	Detail
DIAG.	Diagonal
DIA / Ø	Diameter
DIM	Dimension
DIM PT.	Dimension Point
DIA. PT.	Disable Accessible
DW.	Dishwasher
DN	Down
DN	Door
DBL	Double
DN	Down
DN	Downspout
D.I.	Drain Inlet
DWG.	Drawing
D.F.	Drinking Fountain
EA.	Each
E.	East
ELEC.	Electrical
E.W.C.	Electric Water Cooler
E.W.H.	Electric Water Heater
EL./ELEV.	Elevation
EMER.	Emergency
ENCL.	Enclosure
EQ.	Equal
EXHAUST	Exhaust Fan
(E)EXIST.	Existing
EXP.	Expansion
EXP.	Expansion Joint
EXT.	Exterior
F.O.C.	Face of Concrete/Curb
F.O.F.	Face of Finish
F.O.S.	Face of Studs
FB.	Fiberglass
F.R.L.	Fiberglass Reinforced Laminate
F.R.P.	Fiberglass Reinforced Plastic
F.V.	Field Ventry
FIN.	Finish
F.F.E.	Finish Floor Elevation
FINISH	Finish Grade
F.A.	Fire Alarm
F.E.C.	Fire Extinguisher
FLASH.	Fire Extinguisher Cabinet
FL.M.B.	Flat Head Machine Bolt
F.H.M.S.	Flat Head Machine Screw
F.H.W.S.	Flat Head Wood Screw
FL.FLR.	Floor
F.D.	Floor Drain
FT.	Foot/Feet
FTQ.	Footing
FND.	Foundation
FURR.	Furring
GALV.	Galvanized
G.I.	Galvanized Iron
G.S.M.	Galvanized Sheet Metal
G.W.H.	Gas Water Heater
GA.	Gauge
GLU./LAM./G.L.B.	Glu Laminated (Beam)
GR.	Grab Bar
GR.	Grade
GYP.	Gypsum
GYP.BD.	Gypsum Wallboard
HDWR.	Hardware
HDWD.	Hardwood
HDR.	Header
HVAC	Heating/Ventilating
H.A.	Height
H.H.	Hollow Metal
H.M.	Horizontal
H.B.	Hose Bib
HR.	Hour (Fire Rating)
IN.	Inch
INFO.	Information
I.D.	Inside Diameter
INSUL.	Insulation
INT.	Interior
INV.	Invert
JAN.	Janitor
JO.	Joist
JUST.	Joist
KB.	Kickboard
KP.	Kickplate
KIT.	Kitchen
DIAG.	Diagonal
LAM.	Laminate
LAV.	Lavatory
L.T.WT.	Light Weight
L.F.	Lineal Feet
M.B.	Machine Bolt
M.H.	Manhole
MFR.	Manufacturer
M.O.	Masonry Opening
MATL.	Material
MAX.	Maximum
MCH.	Mechanical
MEB.	Membrane
MTL.	Metal
MEZ.	Mezzanine
MIN.	Minimum
MISC.	Miscellaneous
M.P.	Multipurpose
N.	New
NOM.	Normal
N.	North
N.I.C.	Not in Contract
N.T.S.	Not to Scale
N.O.#	Number
OWF.O.I.	Owner Furnish, Owner Installed
O.F.C.I.	Owner Furnish, Contractor Installed
O.C.	On Center
OPP.	Opposite
O.H.	Opposite Hand
O.D.	Outside Diameter
O.H.W.S.	Oval Head Wood Screw
Ø	Over
OA.	Overall
P.D.F.	Power Driven Fastener
PT.	Part
PR.	Pair
PTN./PART.	Partition
PEN.	Penetration
PERF.	Perforated
P.LAM.	Plastic Laminate
PL.	Plate
P.V.	Plumbing Vent
PLYWD.	Plywood
PL.	Point
PREF-AB.	Prefabricated
P.M.F.	Pressed Metal Frame
P.T./T.D.F.	Pressure Treated Douglas Fir
R.	Radius/Riser
R.W.L.	Rain Water Leader
RDWD.	Redwood
REF.	Refrigerator
REINF.	Reinforced
REQ'D.	Required
RET.	Return
R.D.	Roof Drain
RM.	Room
R.O.G.	Rough Opening
R.H.W.S.	Round Head Wood Screw
R.B.	Rubber Base
SECT.	Section
S.S.K.	Service Sink
SHT.	Sheet
S.M.	Sheet Metal
S.M.S.	Sheet Metal Screw
S.V.	Sheet Vinyl
SHR./SHWR.	Shower
S.	Solid Core
S.C.	South
Spec.	Specification
SQ.	Square
SST./S.S.	Stainless Steel
STD./STND.	Standard
STL.	Steel
STOR.	Storage
S.D.	Storm Drain
S.D.S.T.	Self-Drilling Self-Tapping
S.F.	Square Feet
STRUC.T.	Structural
SUSP.	Suspended
SYM.	Symbol
TB.	Trackboard
TEL./TELE.	Telephone
T.V.	Television
T.CLR.	Tempered Clear
T.L.T.	Tempered Low Transmission
THK.	Thick
THRES.	Threshold
T.H.	Through
T.F.T.	Toilet
T&G	Tongue & Groove
T.O.	Top
T.O.C.	Top of Curb
T.O.P.	Top of Pavement
T.O.W.	Top of Wall/Top of Walk
T.S.	Tube Steel
TYP.	Typical
U.O.N.	Unless Otherwise Noted
V.	Vertical
V.G.D.F.	Vertical Grain Douglas Fir
V.M.C.	Vinyl Wall Covering
WC.	Water Closet
W.C.	Water Heater
W.H.	Weight
W.	Welded Wire Mesh
W.W.M.	West/West
W.	Window
W.G.	Wire Glass
W.	With
W/O.	Without
WB.	Wood
YD.	Yard
Y.D.	Yard Drain

SHADE STRUCTURE AT ELDER CREEK 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

Contact: MIKE TAXARA

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

Project Information:

SITE LOCATION
7934 LEMON HILL AVENUE
SACRAMENTO, CA 95824

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.

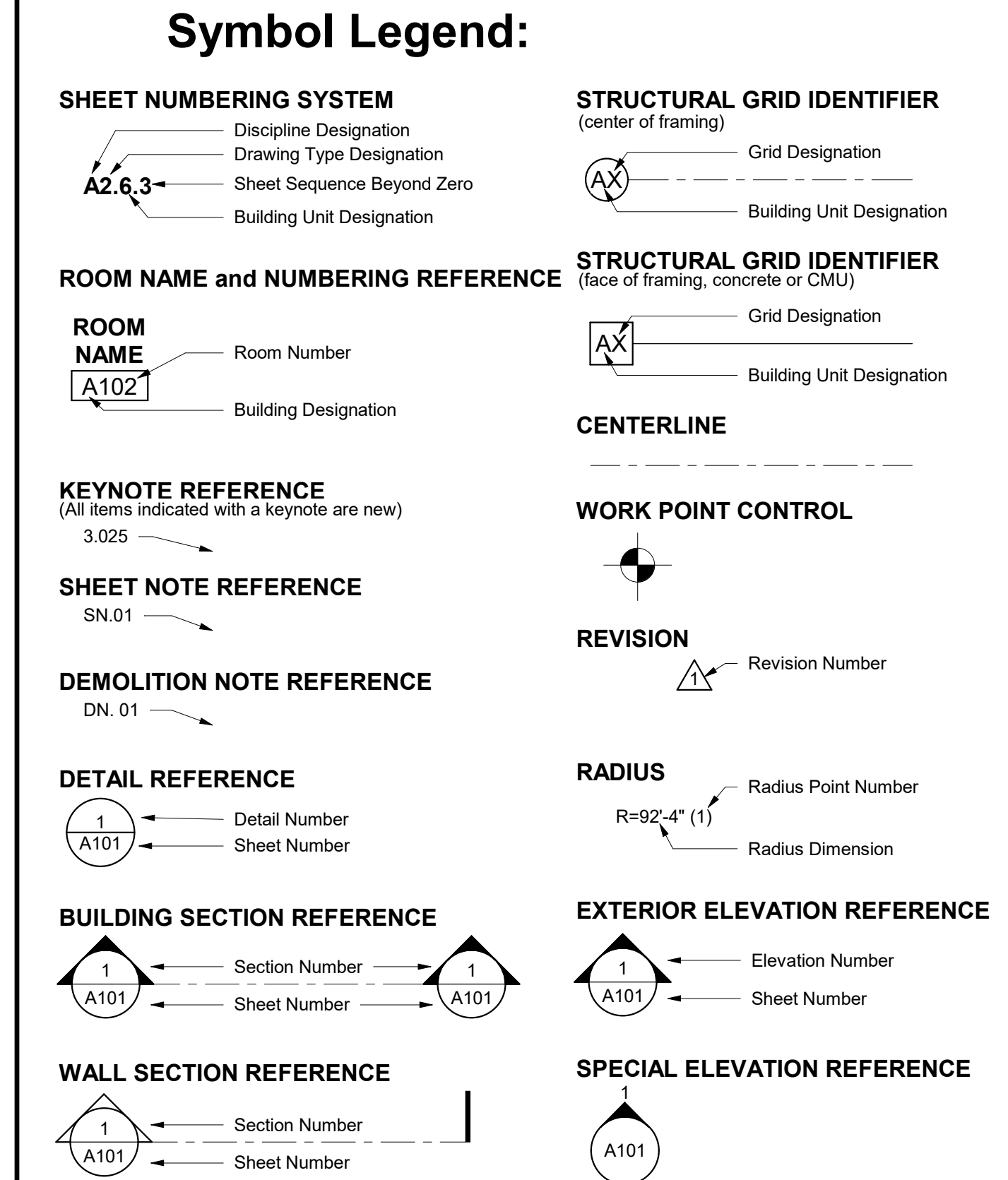
SCHEDULE OF ALTERNATES:

ALTERNATE NO. 1: CRACK REPAIR, SEAL COAT AND RESTRIPIPING
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) striping 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
A2.1.1	TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS
ELECTRICAL	
EO.1	SYMBOLS, NOTES
E1.1	SITE PLAN - ELECTRICAL
E2.1	ONE LINE DIAGRAM
E3.1	DETAILS
TOTAL SHEET COUNT:	13



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 1-5 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 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 NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CSD IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, A CHANGE CONSTRUCTION DOCUMENT OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

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.

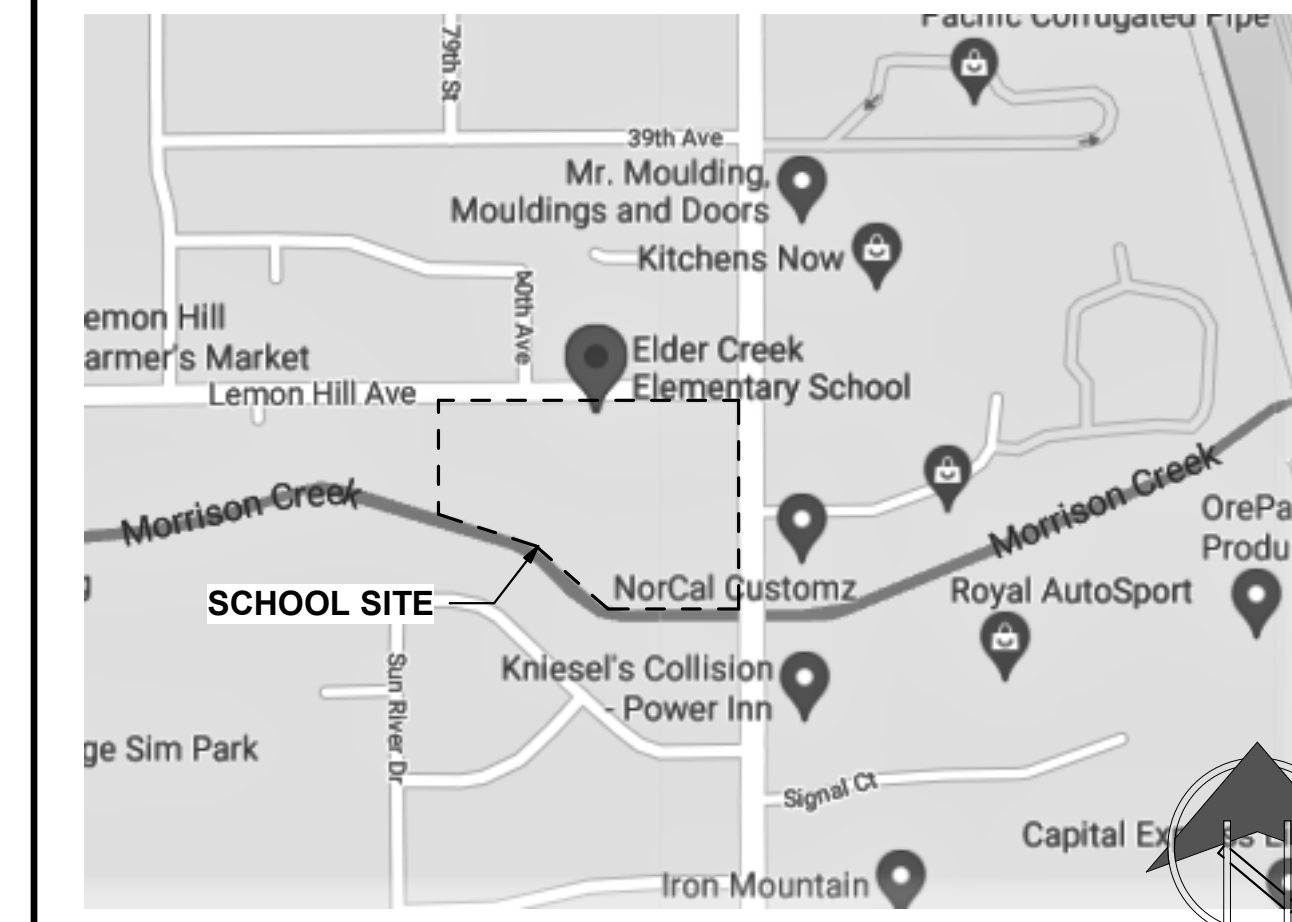
THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (f))

SIGNATURE _____ DATE _____
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
Jeffrey Grau
PRINT NAME _____
C-14648 05/31/23
LICENSE NUMBER EXPIRATION DATE

LIST COMPLETELY. ITEMS REVIEWED AND ACCEPTED:

CIVIL, ELECTRICAL

Vicinity Map:



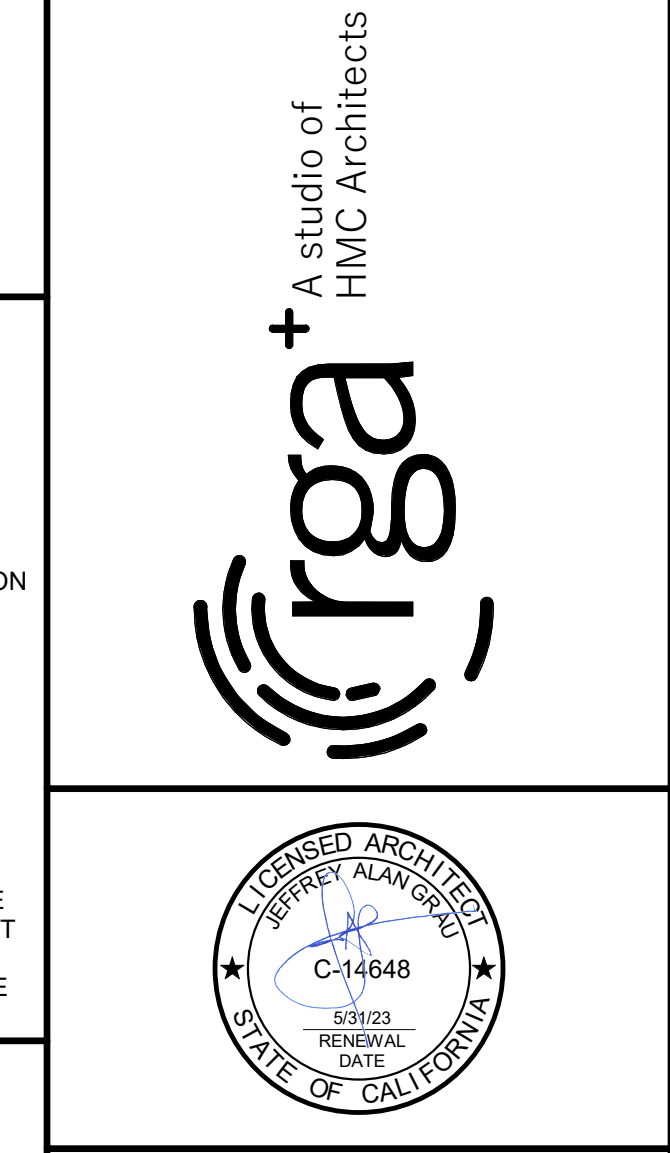
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COVER SHEET

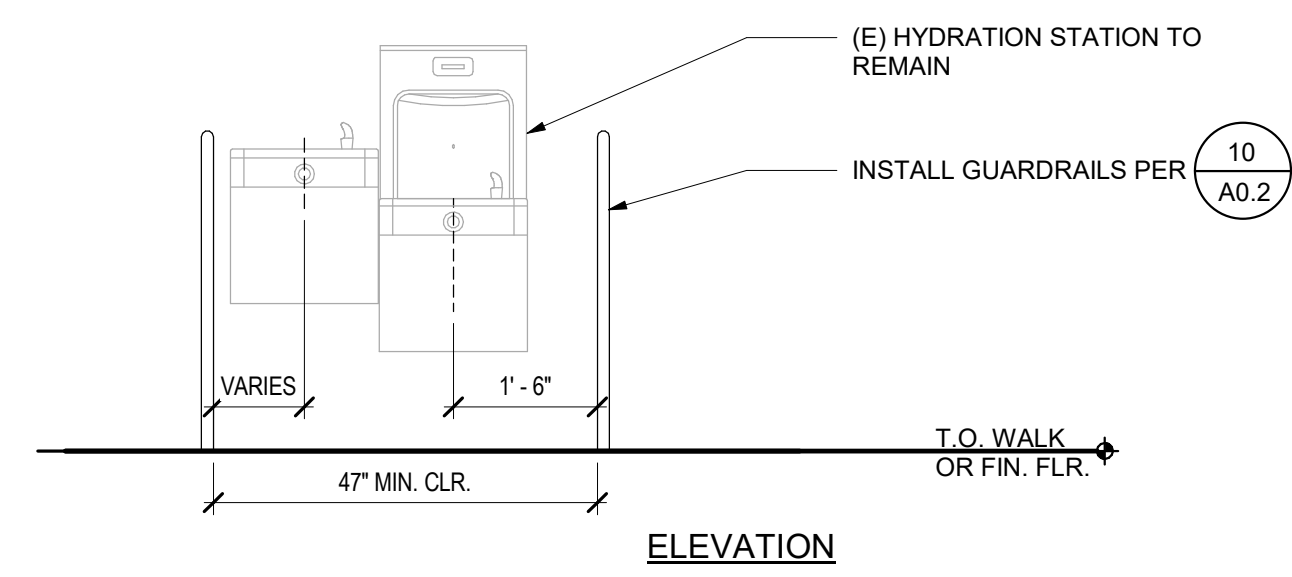
PROJECT NO. 1504.12
DATE: 3/22/2022
SHEET **A0.1**

SHADE STRUCTURE AT ELDER CREEK ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

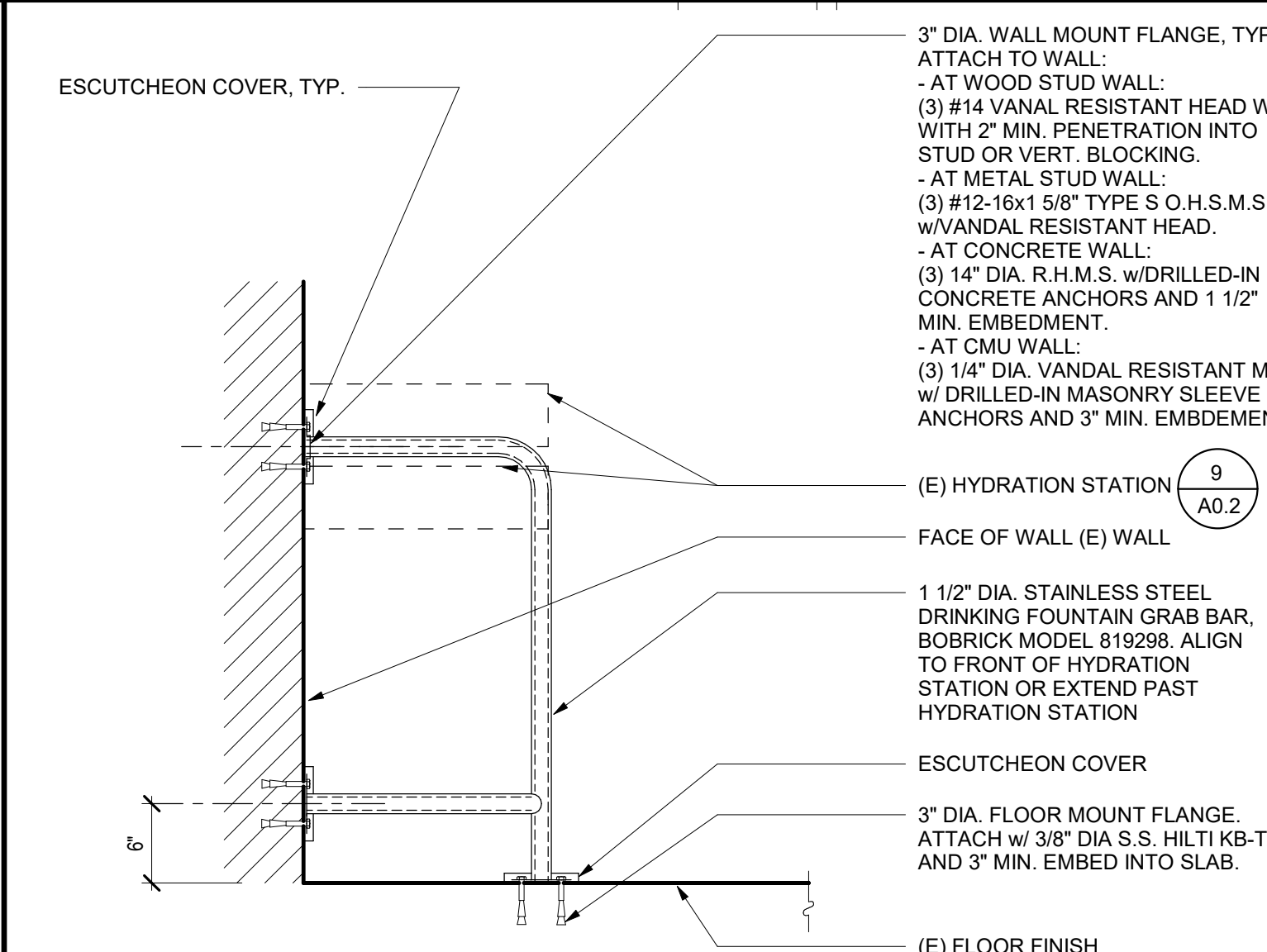
Revision



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



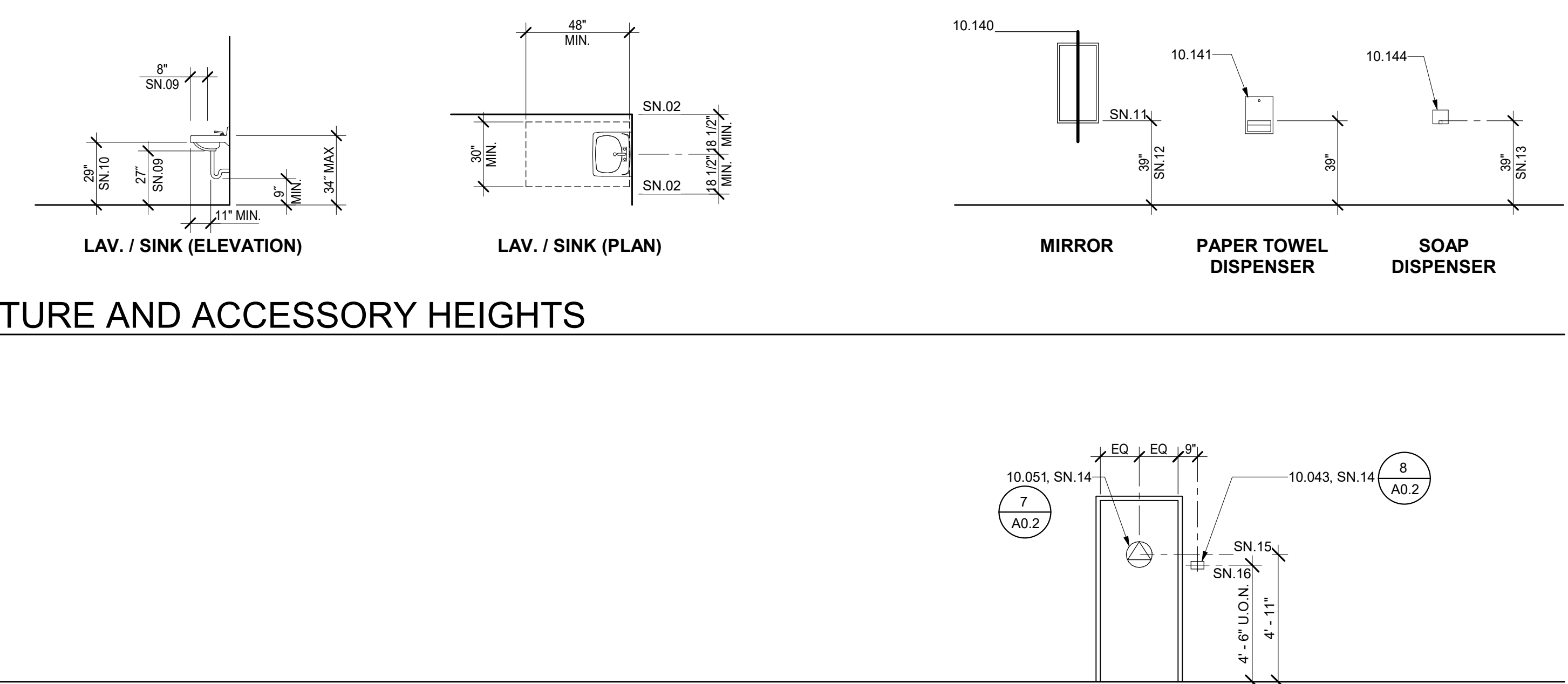
10 HYDRATION STATION GUARDRAIL
1" = 1'-0"



FIXTURE AND ACCESSORY HEIGHTS

FURNITURE EQUIPMENT HEIGHTS

6 TYPICAL MOUNTING HEIGHTS AND DETAILS
1/4" = 1'-0"



GENERAL NOTES

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

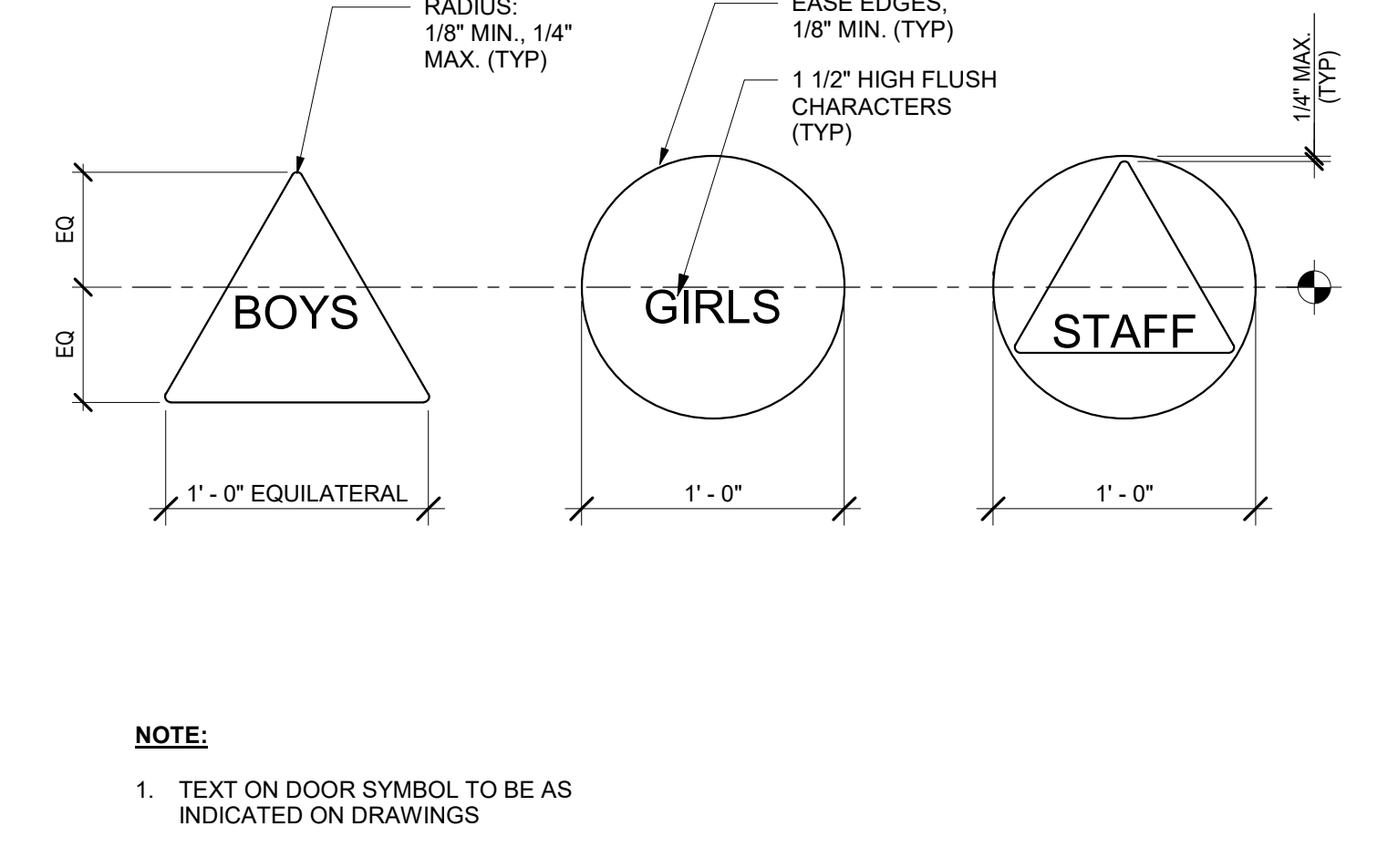
SHEET NOTES

- 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 FRONT EDGE OF WATER CLOSET, LIP HEIGHT
- SN 07 FLUSH HANDLE HEIGHT
- SN 08 MINIMUM KNEE CLEARANCE
- SN 09 MINIMUM APRON CLEARANCE
- SN 10 BOTTOM EDGE OF REFLECTIVE SURFACE
- SN 11 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV, OR COUNTER, TOP OF MIRROR TO CENTERLINE CONTROL.
- SN 12 74" MIN. FOR HIGH SCHOOL & ADULTS. TO CENTERLINE CONTROL.
- SN 13 PROVIDE AT ALL TOILET ROOM DOORS
- SN 14 CENTERLINE OF SYMBOL
- SN 15 CENTERLINE OF SIGN.
- SN 16

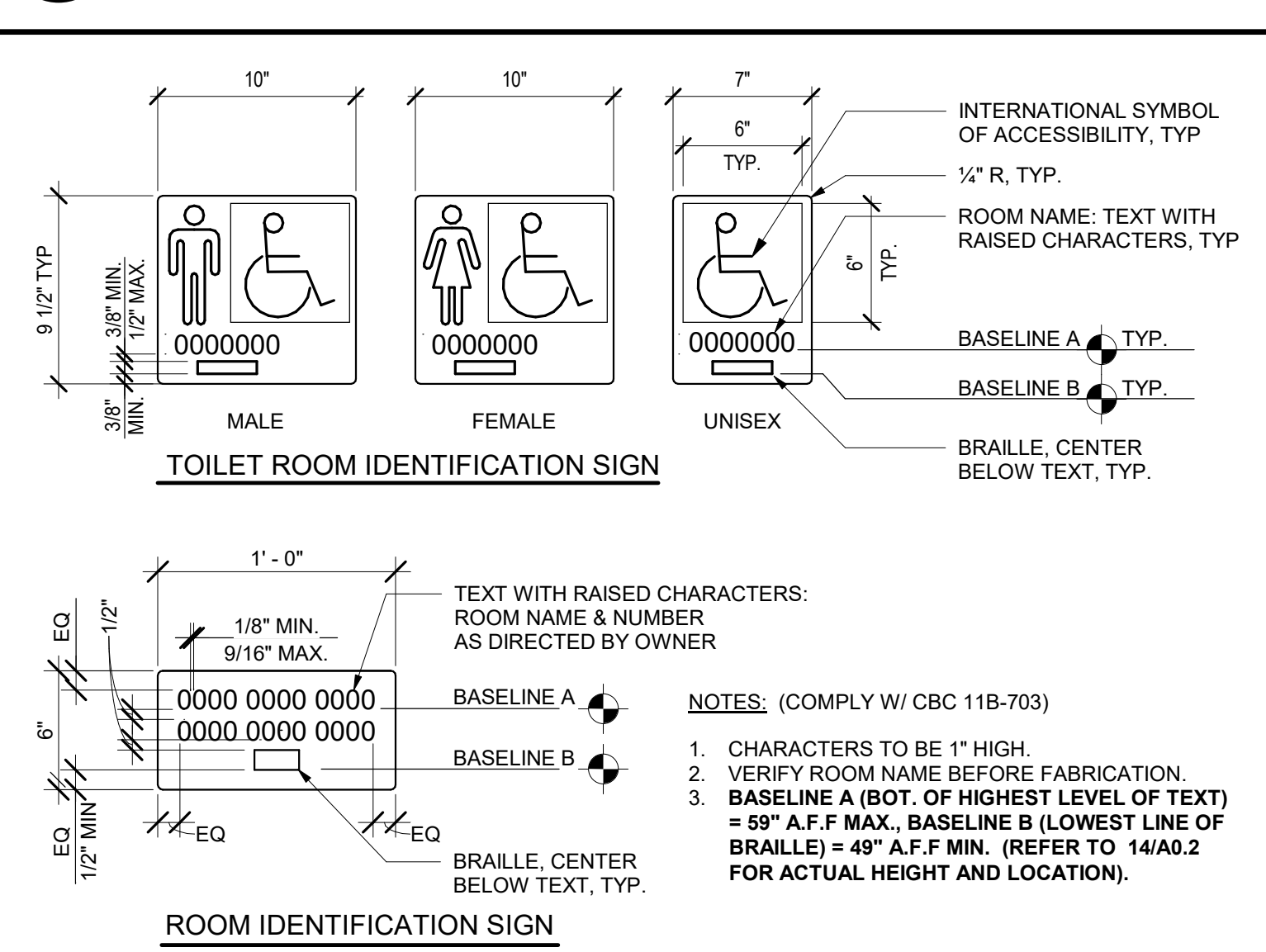
KEYNOTES

- 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
- 22.042 URINAL

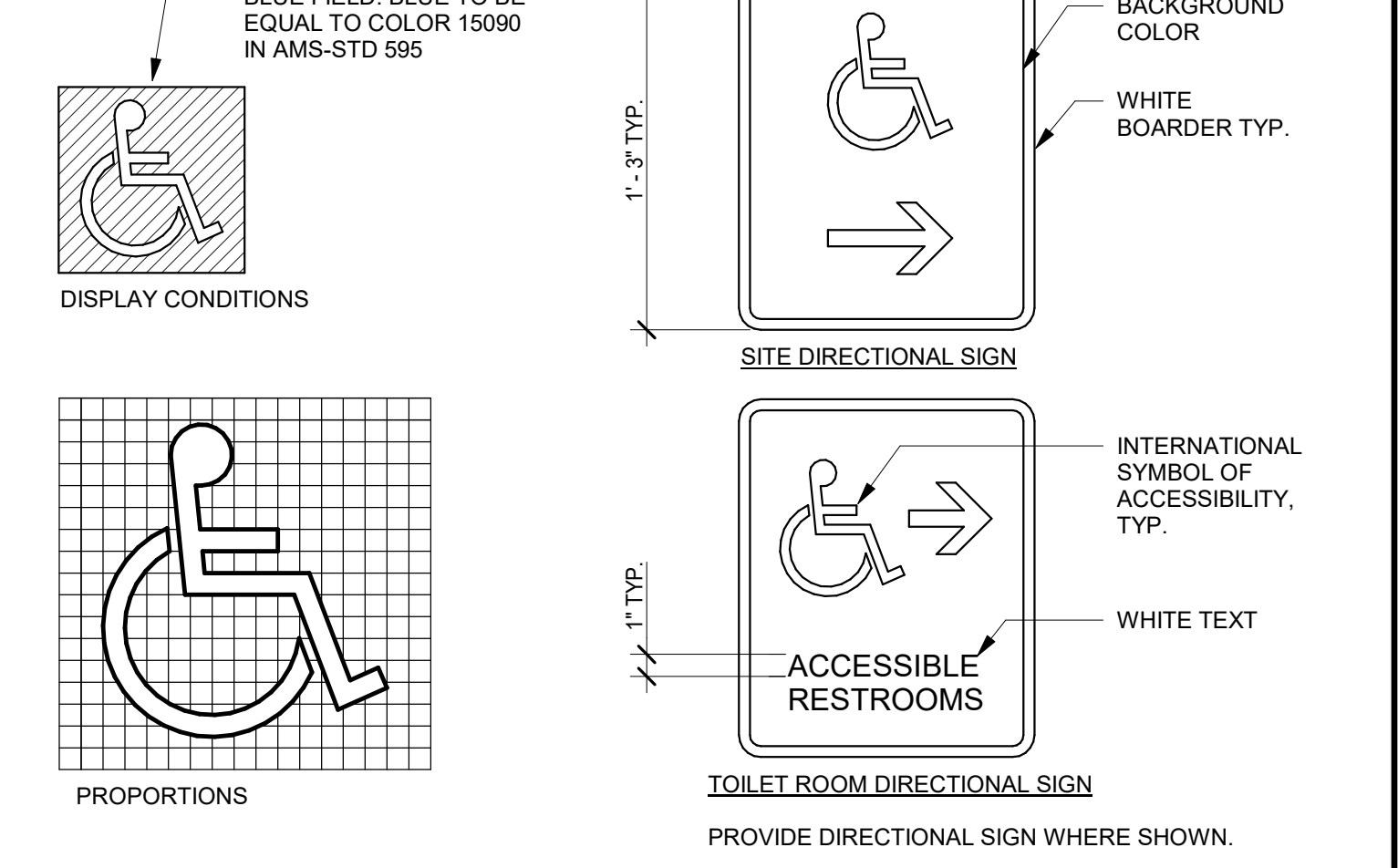
7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"



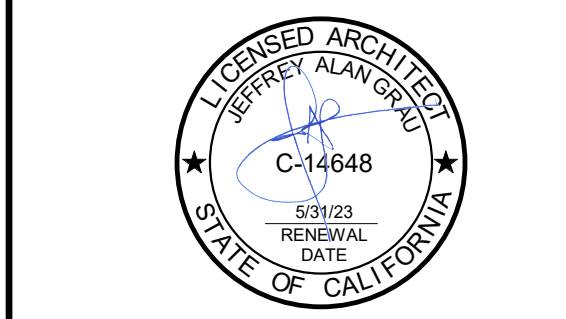
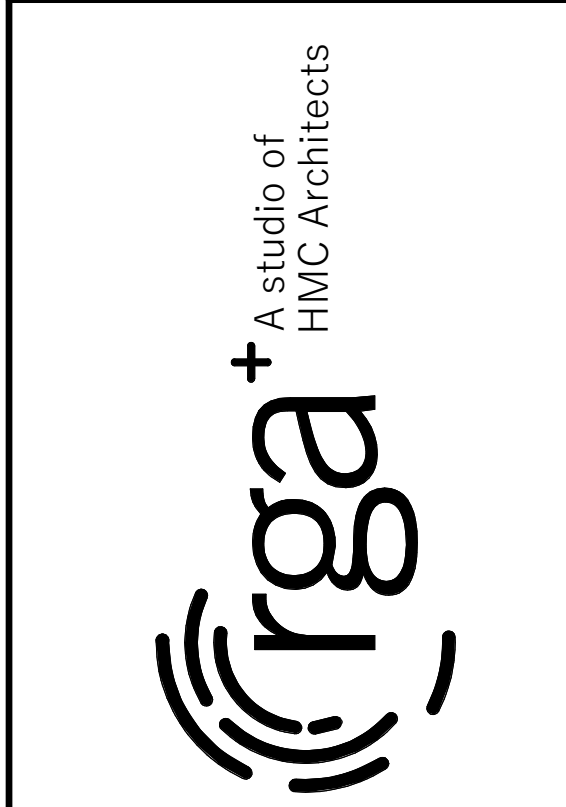
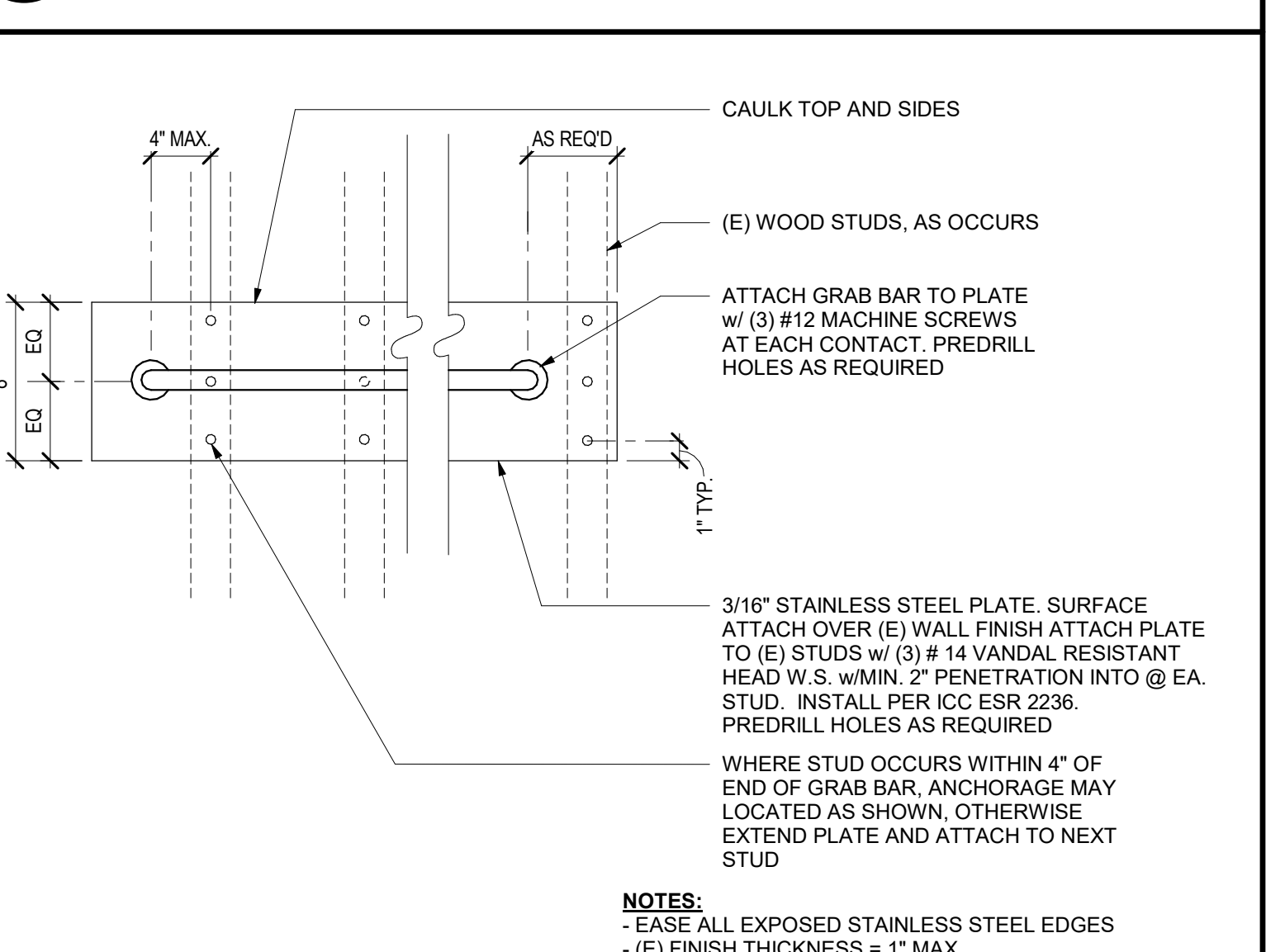
8 IDENTIFICATION SIGNS
1 1/2" = 1'-0"



3 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



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



**SHADE STRUCTURE AT ELDER CREEK
ELEMENTARY SCHOOL**

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA**

Revision

TYPICAL MOUNTING HEIGHTS AND DETAILS

PROJECT NO. 1504.12
DATE: 3/22/2022
SHEET **A0.2**

C:\Users\m\Documents\1504.12_ElderCreek_Corridor_Architectural.dwg

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: ELDER CREEK SHADE STRUCTURE
 Project address: 7934 LEMON HILL AVENUE, SACRAMENTO, CA 95824

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 checked="" type="checkbox"/>	
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" 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 checked="" 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) <i>(If any designations are checked, project design must meet the requirements of CBC Chapter 7A)</i>		WIFA <input type="checkbox"/>		

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	NIR
4.	Emergency vehicle access roadways do not meet CFC requirements	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<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 checked="" 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 type="checkbox"/>	<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 checked="" 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 type="checkbox"/>	<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 checked="" 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 type="checkbox"/>	<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 or more of the conditions indicated at items 4a, 5a, 6a, or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ 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

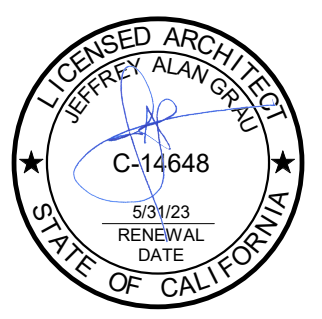
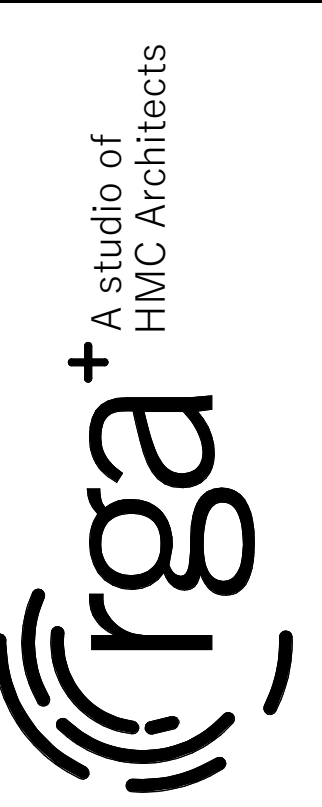
- PROPERTY LINE
- [X] UNIT DESIGNATION SHADE STRUCTURE
- [Hatched Box] UNIT DESIGNATION EXISTING BUILDINGS
- [Grid Pattern] CONCRETE WALK / PAVING
- [Dotted Pattern] ASPHALT CONCRETE PAVING
- [Cross-hatch Pattern] (E) EMERGENCY ACCESS LANE
- [Dashed Line] (E) CHAIN LINK FENCE
- [Symbol] (E) FIRE HYDRANT (NTS)

SHEET NOTES

- SN.01 (E) FIRE HYDRANT
- SN.02 (E) 10'-0" WIDE GATES WITH KNOX LOCK BOX

BUILDING DESIGNATIONS

- UNIT A - ADMINISTRATION AND MULTIPURPOSE
- UNIT B - CLASSROOMS
- UNIT C - CLASSROOMS
- UNIT D - CLASSROOMS
- UNITS - CLASSROOMS E1-E7
- UNITS - CLASSROOMS F1-F5
- UNITS - CLASSROOMS G1-G3
- UNIT H - CLASSROOMS
- UNITS - CLASSROOMS J1-J2
- UNIT RR - TOILET ROOMS



SHADE STRUCTURE AT ELDER CREEK ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

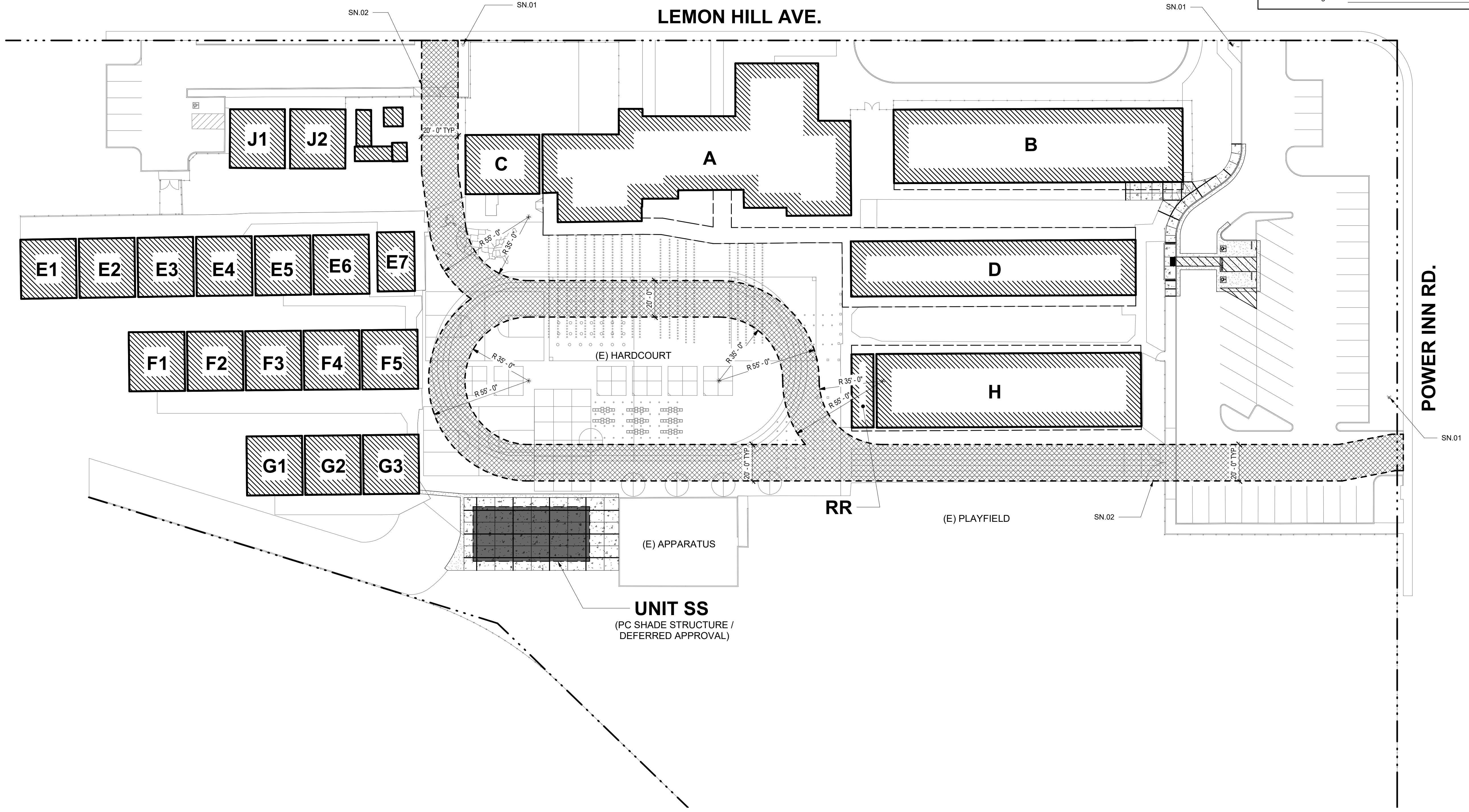
Revision

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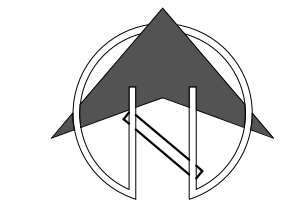
LOCAL FIRE AUTHORITY SITE PLAN

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. 1504.12
 DATE: 3/22/2022
 SHEET **A0.7**



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



C:\Users\jg\Documents\DSA_810_ElderCreek_Shade_Structure_Civil_Arch.dwg

EXISTING TOPOGRAPHY

- = PROPERTY LINE
- - - = CENTERLINE
- - - = EASEMENT
- ⊙ = PROPERTY CORNER FOUND AS NOTED
- ⊙ = PROPERTY CORNER NOTHING FOUND OR SET
- ⊙ = 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

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

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV
1	CPS PICKER	9826.08	9887.52	35.33
2	CPF BM318-DEB EL=39.128	9826.23	10408.31	39.13
3	CPS CHISELED "+"	9926.31	10335.06	36.81
4	CPS CHISELED "+@LIFT STA	10027.66	10326.68	39.06
5	CPS CHISELED "+"	9947.25	10206.39	37.16
6	CPS CHISELED "+"	9999.42	10051.23	37.01
7	CPS CHISELED "+"	10068.98	10044.86	38.28
8	CPS CHISELED "+"	10132.52	10043.86	39.36
9	CPS CHISELED "+"	10118.88	9942.60	39.41
10	CPS CHISELED "+"	10109.46	9863.00	39.44
11	CPS CHISELED "+"	10213.76	9790.60	36.52
12	CPS CHISELED "+"	10071.81	9790.91	37.94
13	CPS CHISELED "+"	9956.32	9754.16	36.90
14	CPS PK&WASHER	10013.73	9549.89	36.13
15	CPS CHISELED "+"	9940.09	9971.33	36.90
16	CPF CHISELED "+"	10214.15	9443.22	36.79
17	CPF CHISELED "+"	10166.91	9539.19	37.64
18	CPS CHISELED "+"	10151.92	9640.82	37.70
19	CPS CHISELED "+"	10114.53	10239.27	38.56
20	CPS CHISELED "+"	10215.06	10234.42	37.34

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 RIGGING VALVE
 - ASB AGGREGATE SUB-BASE
 - BO BLOW-OFF VALVE
 - BV BUTTERFLY VALVE
 - BW BACK OF WALK
 - C/L CENTERLINE
 - CB CATCH BASIN
 - CL CLASS
 - CM CORRUGATED METAL PIPE
 - CMV CABLE TELEVISION
 - CO CLEANOUT
 - COMM COMMUNICATION
 - CMC CONC.
 - CONST. CONSTRUCT
 - CR CURB RETURN
 - CS CONCRETE SURFACE
 - DC DOUBLE CHECK VALVE
 - DDC DOUBLE DETECTOR CHECK VALVE
 - DG DECOMPOSED GRANITE
 - DJ DROP INLET
 - DIA DIAMETER
 - DIP DUCTILE IRON PIPE
 - DWG DRAWING
 - DOWN DOWNPOUT
 - E ELECTRIC
 - EP EDGE OF PAVEMENT
 - ESMT EASEMENT
 - EX EXISTING
 - FS FIRE SERVICE LINE
 - FDC FIRE DEPARTMENT CONNECTION
 - FL FLOWLINE
 - FM SANITARY SEWER FORCE MAIN
 - FF FINISHED FLOOR ELEVATION
 - FH FIRE HYDRANT
 - GR GRATE ELEVATION
 - GRD GRADE ELEVATION
 - GV GATE VALVE
 - HB HOSE BIBB
 - HBD HEADER BOARD
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - HP HIGH POINT
 - NW PIPE INVERT ELEVATION
 - JP JOINT UTILITY POLE
 - LF LINEAL FEET
 - LIP LIP OF GUTTER
 - LT LEFT
 - MS MOWSTRIP
 - NTS NOT TO SCALE
 - OH OVERHEAD
 - PC PORTLAND CEMENT CONCRETE
 - PD PLANTER DRAIN
 - PV POST INDICATOR VALVE
 - P/L PROPERTY LINE
 - PP POWER POLE
 - PUE PUBLIC UTILITY EASEMENT
 - PVC POLYVINYL CHLORIDE
 - RPC REINFORCED CONCRETE PIPE
 - RADIUS
 - RIM MANHOLE RIM ELEVATION (SOLID COVER)
 - RP REDUCED PRESSURE BACKFLOW PREVENTER
 - RT RIGHT OF WAY
 - SCH SCHEDULE
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SS SUBGRADE ELEVATION
 - SS SANITARY SEWER
 - SSMH SANITARY SEWER MANHOLE
 - STD STANDARD
 - S/W SIDEWALK
 - 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
 - TSW TOP OF SEAT WALL
 - TW TOP OF WALK ELEVATION
 - U UTILITY
 - UG UNDERGROUND
 - UN UNLESS OTHERWISE NOTED
 - VCP VITRIFIED CLAY PIPE
 - W WATER
 - W/W WITH
 - W/O WITHOUT
 - WW 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:**
- 8" 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
 - M WATER METER
 - FH FIRE HYDRANT ASSEMBLY
 - FDC FIRE DEPARTMENT CONNECTION
 - DC DETECTOR CHECK VALVE
 - DDC DOUBLE DETECTOR CHECK VALVE
 - RP REDUCED PRESSURE BACKFLOW PREVENTER
 - BV BUTTERFLY VALVE
 - 1" AIR RELEASE VALVE + SIZE
 - 6" BLOW-OFF VALVE + SIZE
 - PIV POST INDICATOR VALVE

DEMOLITION GENERAL NOTES

- 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.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 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 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.
- 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.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 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 ROOTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

GENERAL NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 CLEAR EDGE OR PATCH BAG. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 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.
- 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.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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:

- 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.
- 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

SHADE STRUCTURE AT ELDER CREEK ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

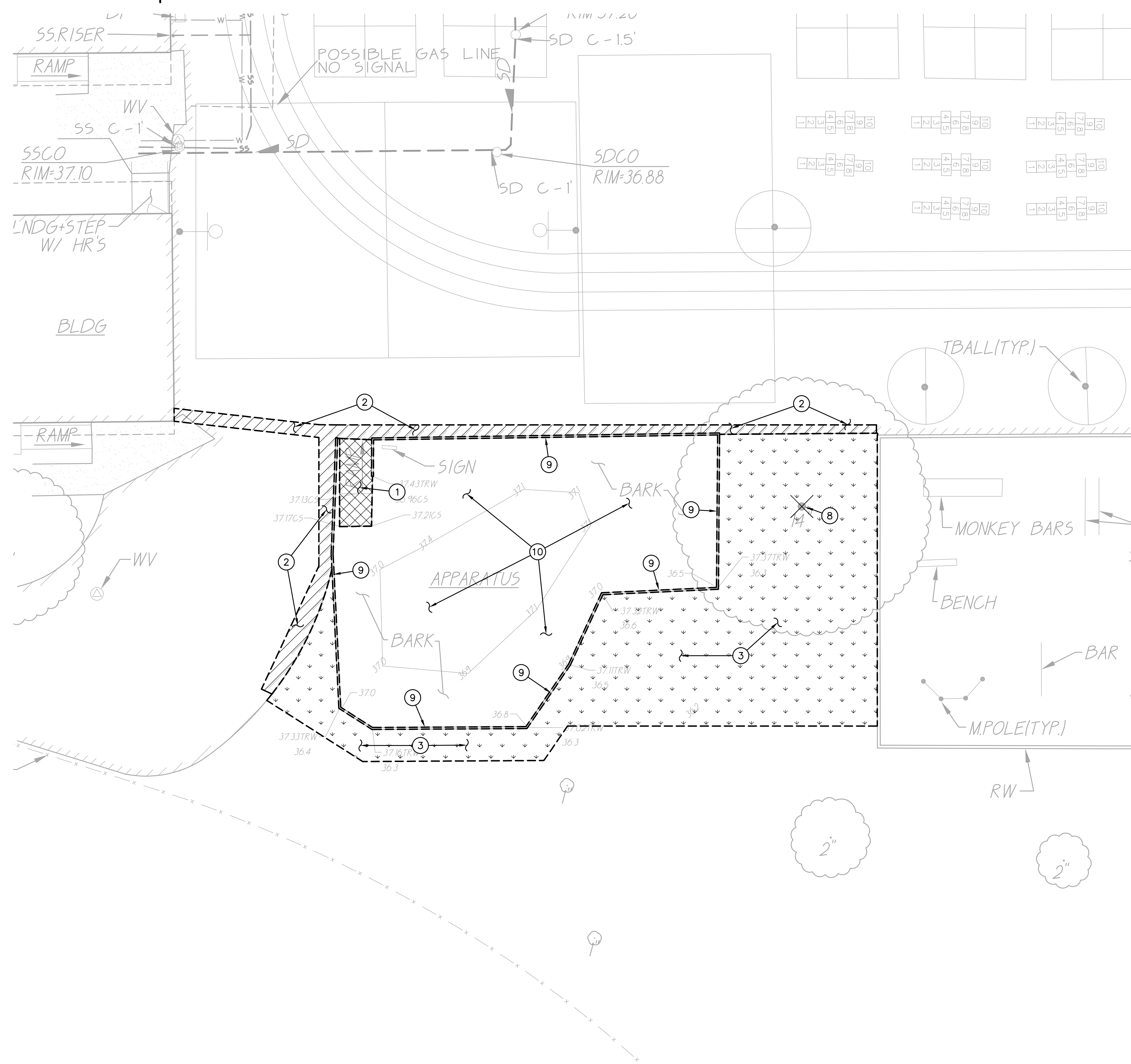
CIVIL GENERAL NOTES AND ABBREVIATIONS

PROJECT NO. 1504.12
DATE: 3/21/2022
SHEET

C0.1

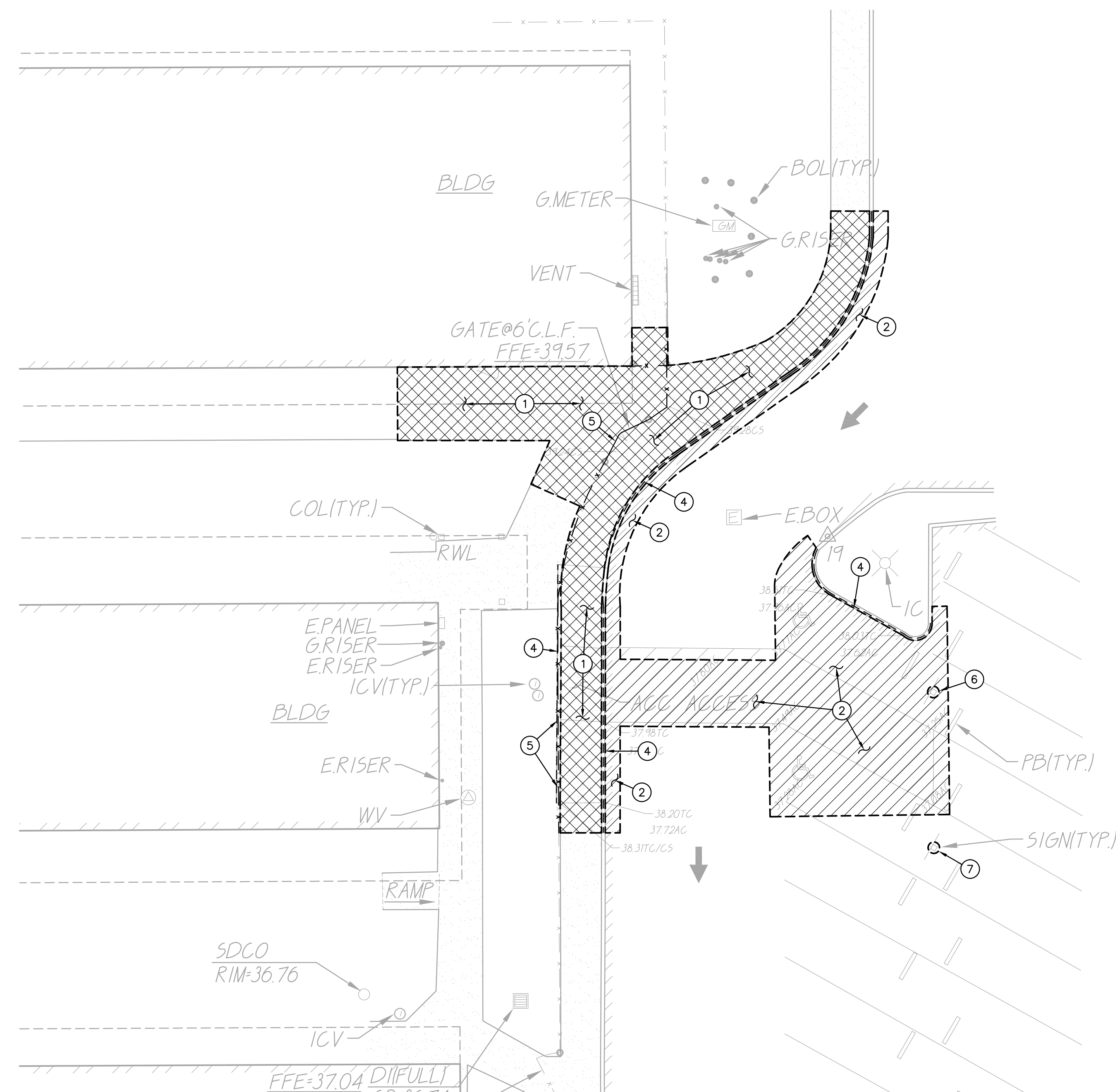


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DEMOLITION PLAN - SHADE STRUCTURE

SCALE: 1"=10'



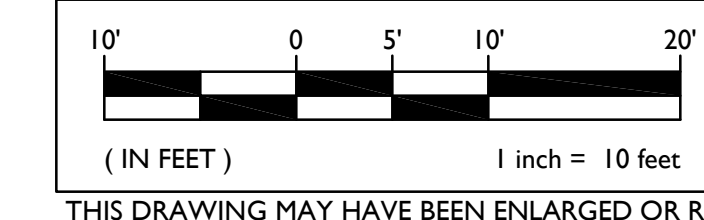
DEMOLITION PLAN - ACCESSIBLE PARKING

SCALE: 1"=10'

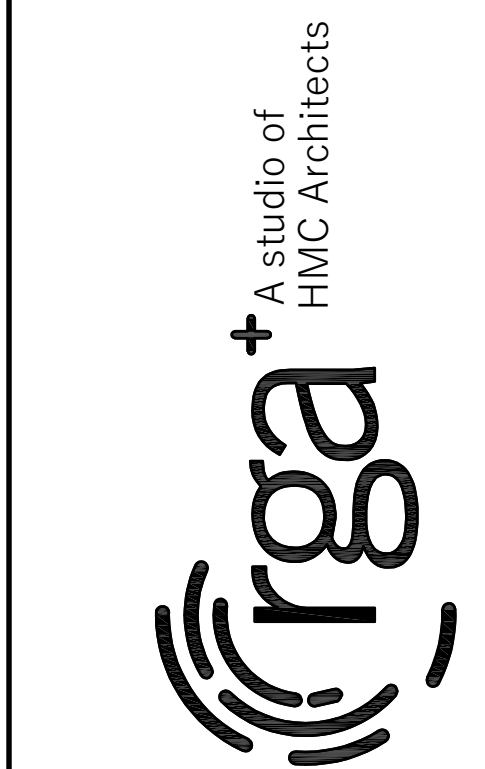
DEMOLITION NOTES

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 CONCRETE CURB.
5. REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, GATES, POSTS AND ASSOCIATED FOOTINGS.
6. REMOVE AND DISPOSE OF EXISTING SIGN, POST AND ASSOCIATED FOOTINGS.
7. CUT POST FLUSH WITH PAVEMENT AND GROUT FILL POST HOLE.
8. REMOVE AND DISPOSE OF EXISTING TREE, TRUNK AND ASSOCIATED ROOTS.
9. REMOVE AND DISPOSE OF EXISTING PLASTIC APPARATUS CURB.
10. REMOVE AND DISPOSE OF EXISTING BARK, PLAY APPARATUS AND ASSOCIATED FOOTINGS.

GRAPHIC SCALE



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SHADE STRUCTURE AT ELDER CREEK
ELEMENTARY SCHOOL

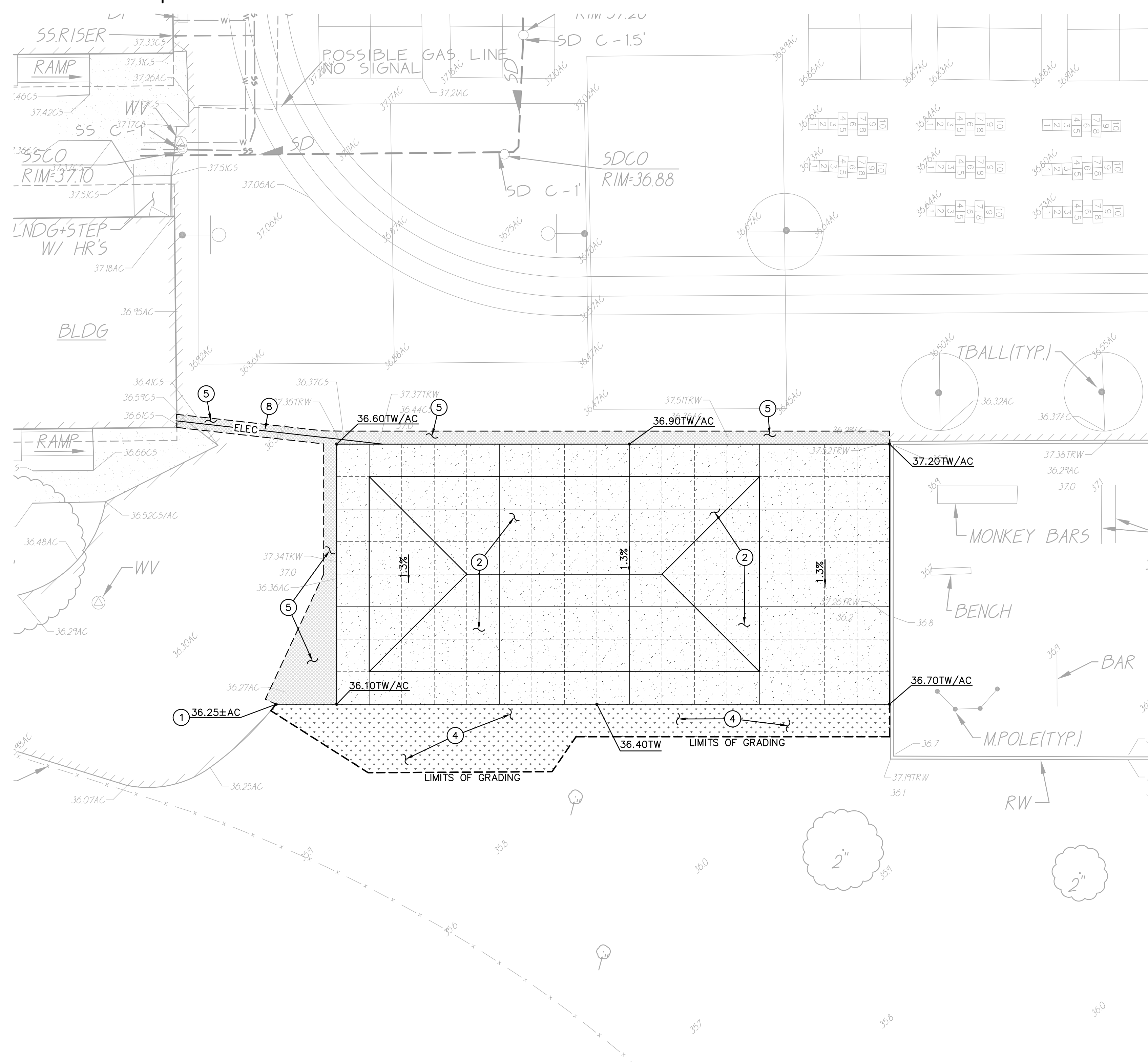
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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DEMOLITION PLAN

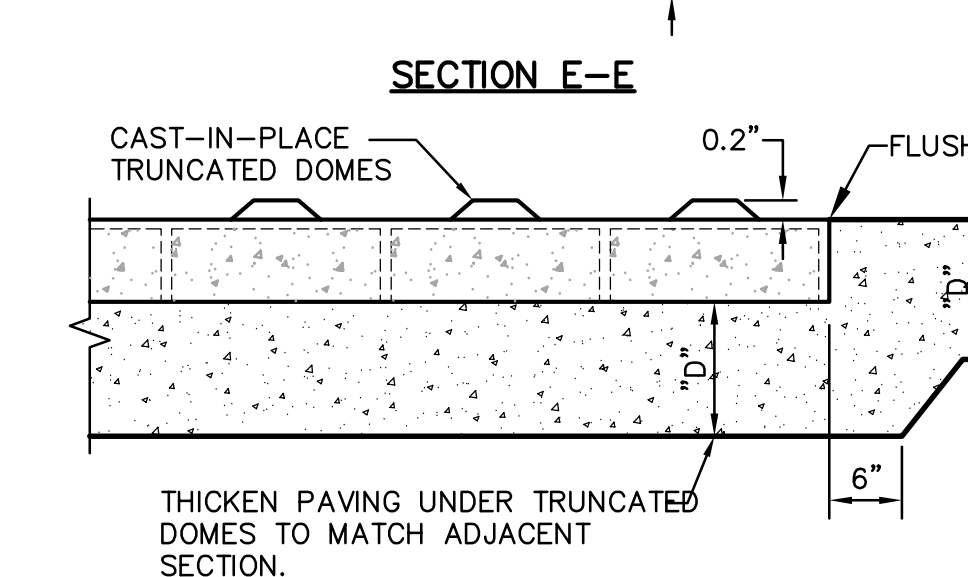
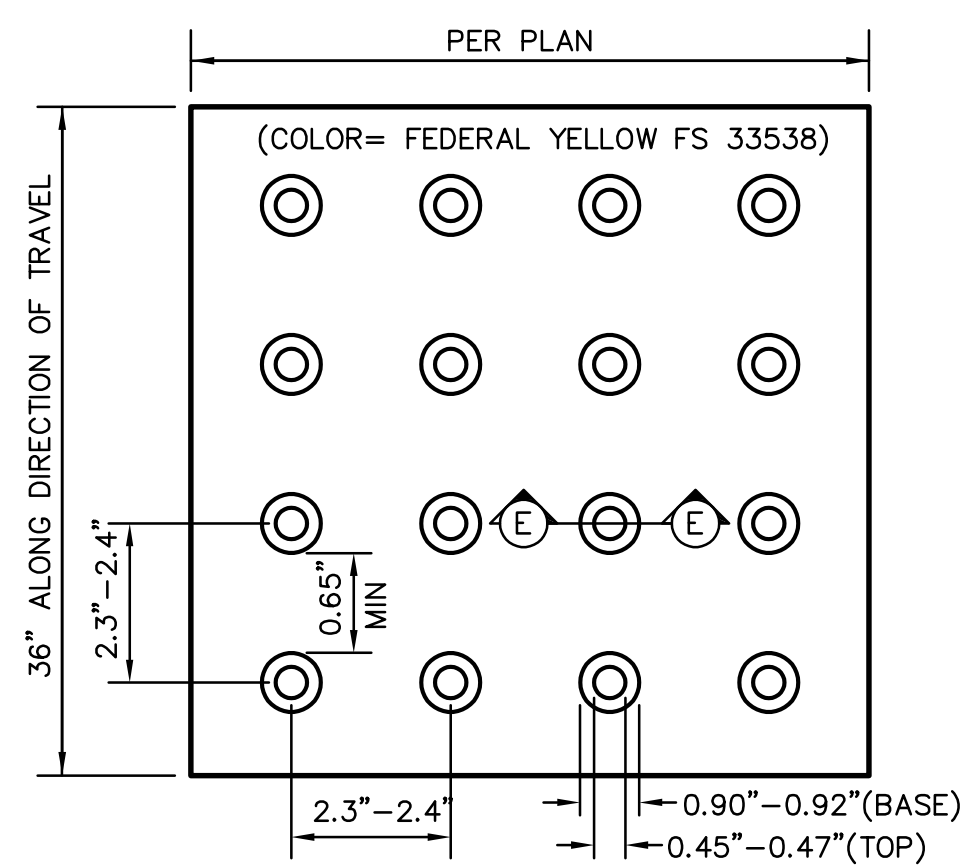
PROJECT NO. 1504.12
DATE: 3/21/2022
SHEET

C1.1

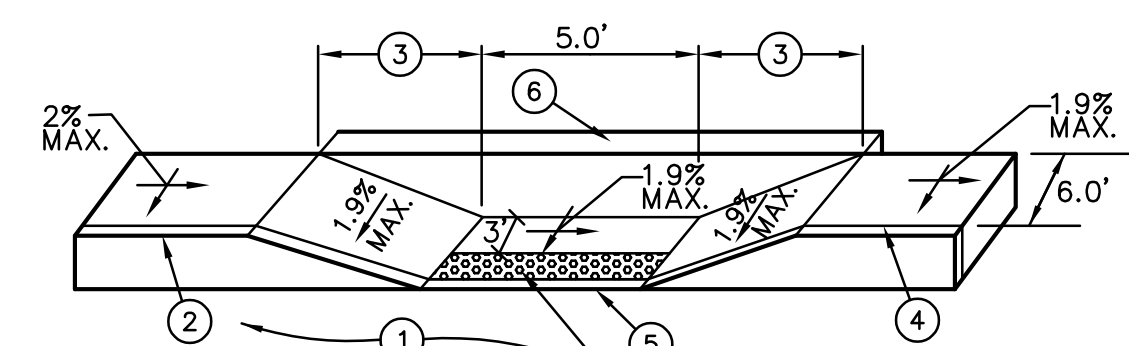


GRADING AND PAVING PLAN - SHADE STRUCTURE

SCALE: 1"=10'

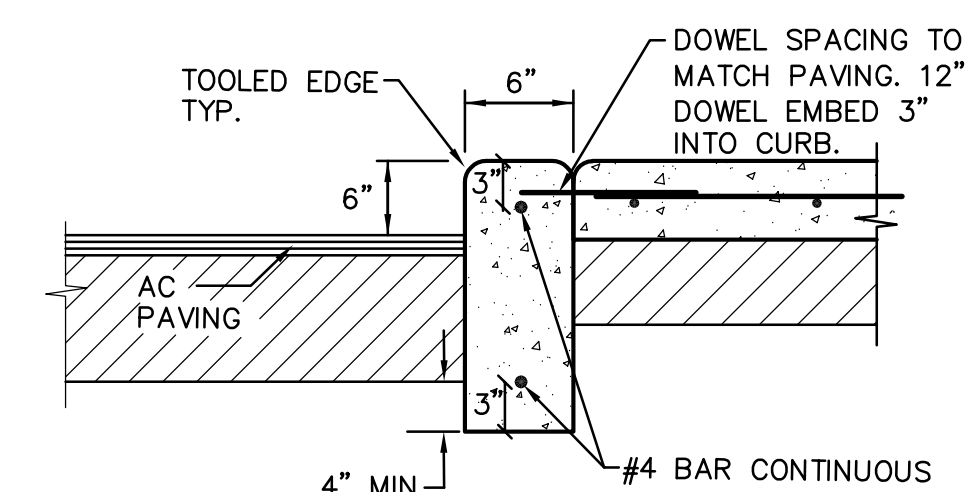
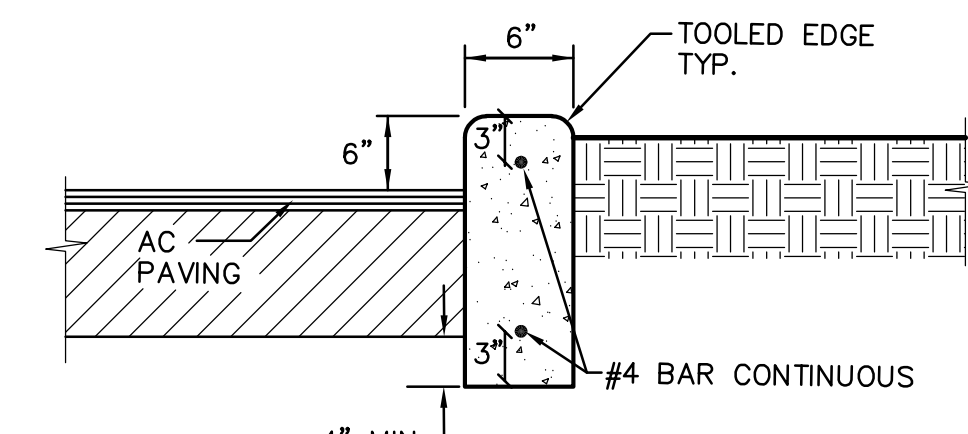
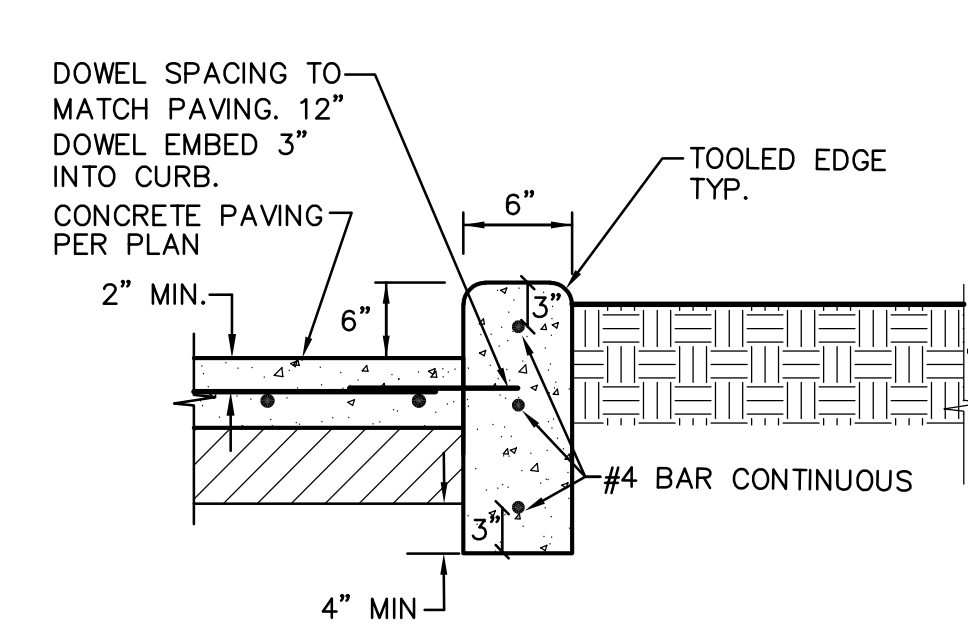


4 C2.1 TRUNCATED DOMES NO SCALE



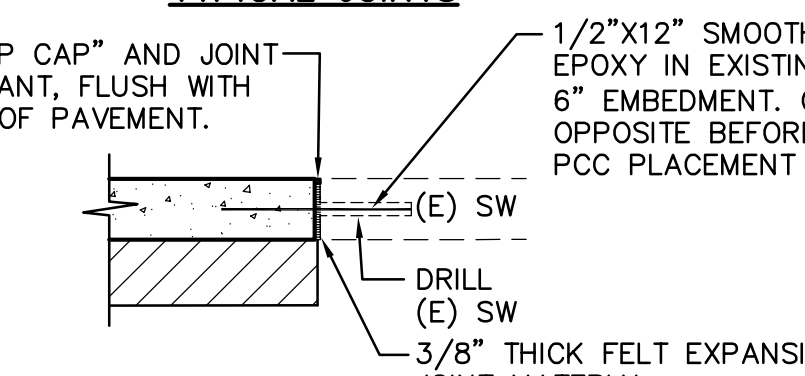
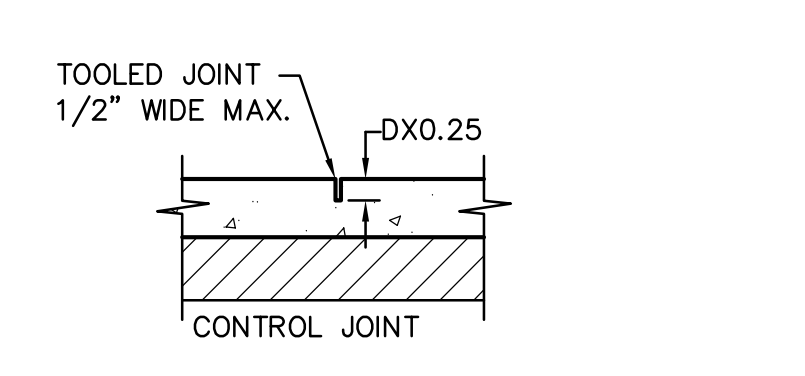
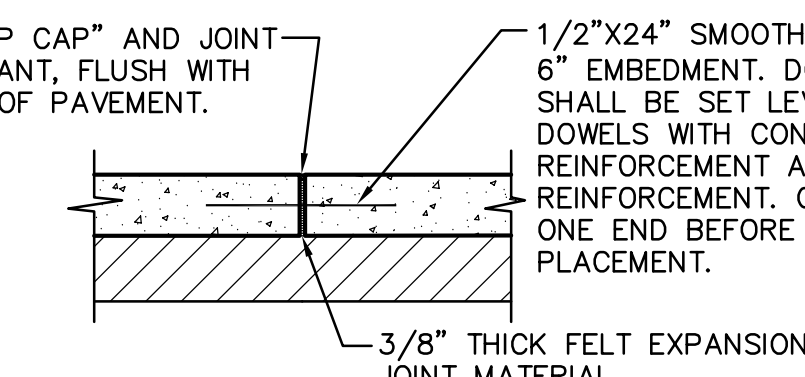
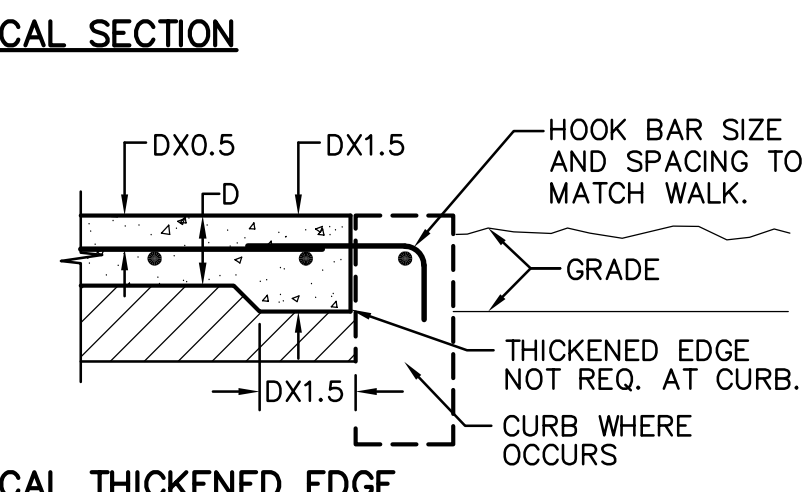
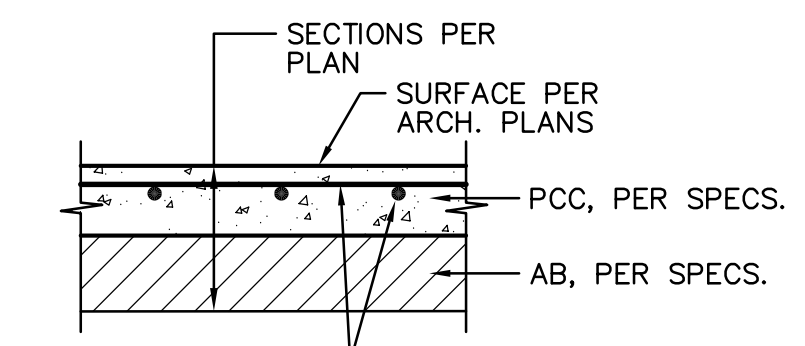
- LEGEND
- PAVEMENT.
 - TOP FACE OF CURB, STANDARD 6" HIGH.
 - 8.3% (1:12) MAXIMUM SLOPE, 2% MAX CROSS SLOPE.
 - SCORE MARK, 6" BACK OF CURB.
 - TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.2.
 - 6" WIDE RETAINING CURB HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
 - PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK LESS 2 INCHES MAXIMUM ON EACH SIDE PER 11B-705.1.2.2.

3 C2.1 ACCESSIBLE CURB RAMP NO SCALE



- 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.

2 C2.1 CONCRETE CURB NO SCALE

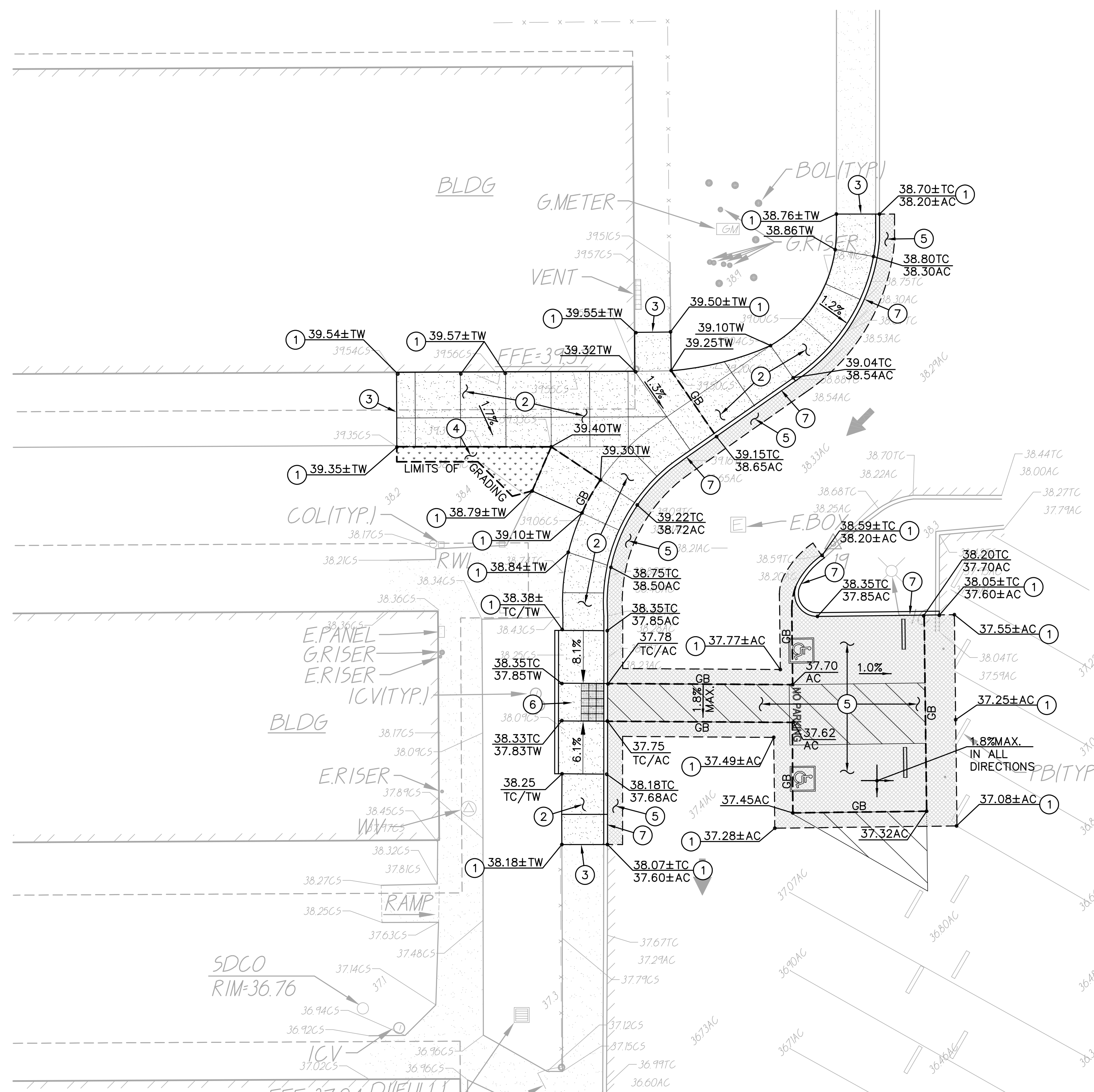


- NOTES:
- PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MIN.
 - PROVIDE CONTROL JOINTS AT 10 FEET O.C. MIN.
 - EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 C2.1 CONCRETE SIDEWALK NO SCALE

GRADING AND PAVING PLAN - ACCESSIBLE PARKING

SCALE: 1"=10'



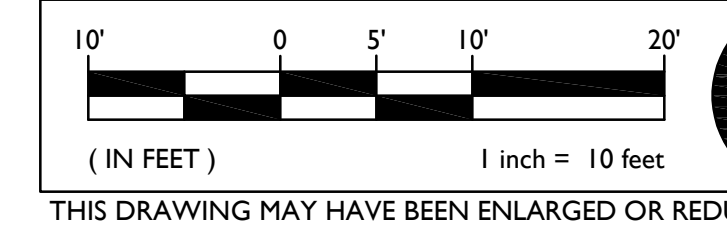
SUBGRADE PREPARATION

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.
- CONSTRUCT ACCESSIBLE CURB RAMP PER (3) C2.1
- CONSTRUCT CONCRETE CURB PER (2) C2.1
- REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.

GRAPHIC SCALE



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SHADE STRUCTURE AT ELDER CREEK
ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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**GRADING
AND
PAVING PLAN**

PROJECT NO. 1504.12
DATE: 3/21/2022
SHEET **C2.1**

FILENAME: I:22-044\CIVIL\ELDER CREEK\DWG\22-044-C21.ELDER.DWG

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:
 1) HAVE BEEN IDENTIFIED AND
 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.
 ANY 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:	49 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	1 (28-50 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-4 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	1 STANDARD & 1 VAN

PROPOSED SHADE STRUCTURE

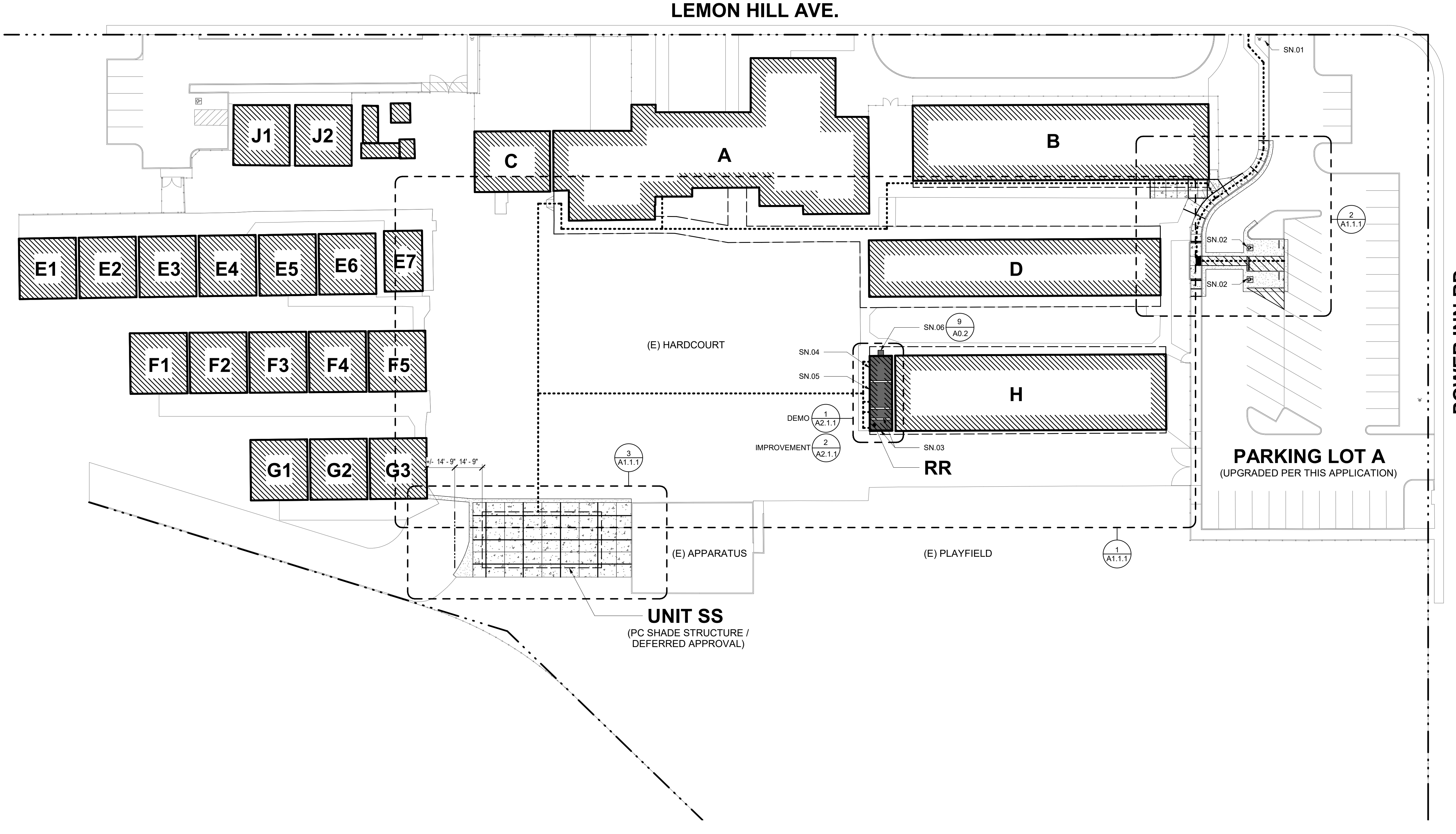
UNIT	DESCRIPTION	CONSTRUCTION TYPE	OCCUPANCY	ALLOWABLE AREA
SS	SHADE STRUCTURE	I-B OR	A-3	9,500 SF MAX
		V-B	A-3	6,000 SF MAX

EXISTING BUILDING DESIGNATIONS

UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	ADMINISTRATION / MULTIPURPOSE	9067, 23022	9,405	
B	RELOCATABLE CLASSROOMS	80078	6,413	
C	RELOCATABLE CLASSROOMS	80078	1,315	
D	CLASSROOMS	13938	4,742	
E1-E7	RELOCATABLE CLASSROOMS	53491, 02-102428	960 EACH	
F1-F5	RELOCATABLE CLASSROOMS	53491, 02-102428	960 EACH	
G1-G3	RELOCATABLE CLASSROOMS	53491, 02-102428	960 EACH	
H	RELOCATABLE CLASSROOMS	80078	5,875	
J1-J2	RELOCATABLE CLASSROOMS	19861, 48230	960 EACH	
RR	TOILET ROOMS	80078, THIS APPLICATION	480	

- LEGEND**
- PROPERTY LINE
 - - - - - ASSUMED PROPERTY LINE
 - [X] UNIT DESIGNATION
PC SHADE STRUCTURE / DEFERRED APPROVAL
 - [Hatched Box] UNIT DESIGNATION
EXISTING BUILDINGS
 - [Dashed Line] EXPANSION JOINT
 - [Hatched Box] CONCRETE WALK / PAVING
 - [Dashed Line] CONTROL JOINT
 - [Hatched Box] ASPHALT CONCRETE PAVING
 - ACCESSIBLE PATH OF TRAVEL

1. 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.
2. 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.
3. AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
4. SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1:1 UNIT VERTICAL TO 23 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%.
5. 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 LIGHT 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.
6. 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.
7. 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 REVIEWED AND VERIFIED 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 ELDER CREEK
ELEMENTARY SCHOOL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

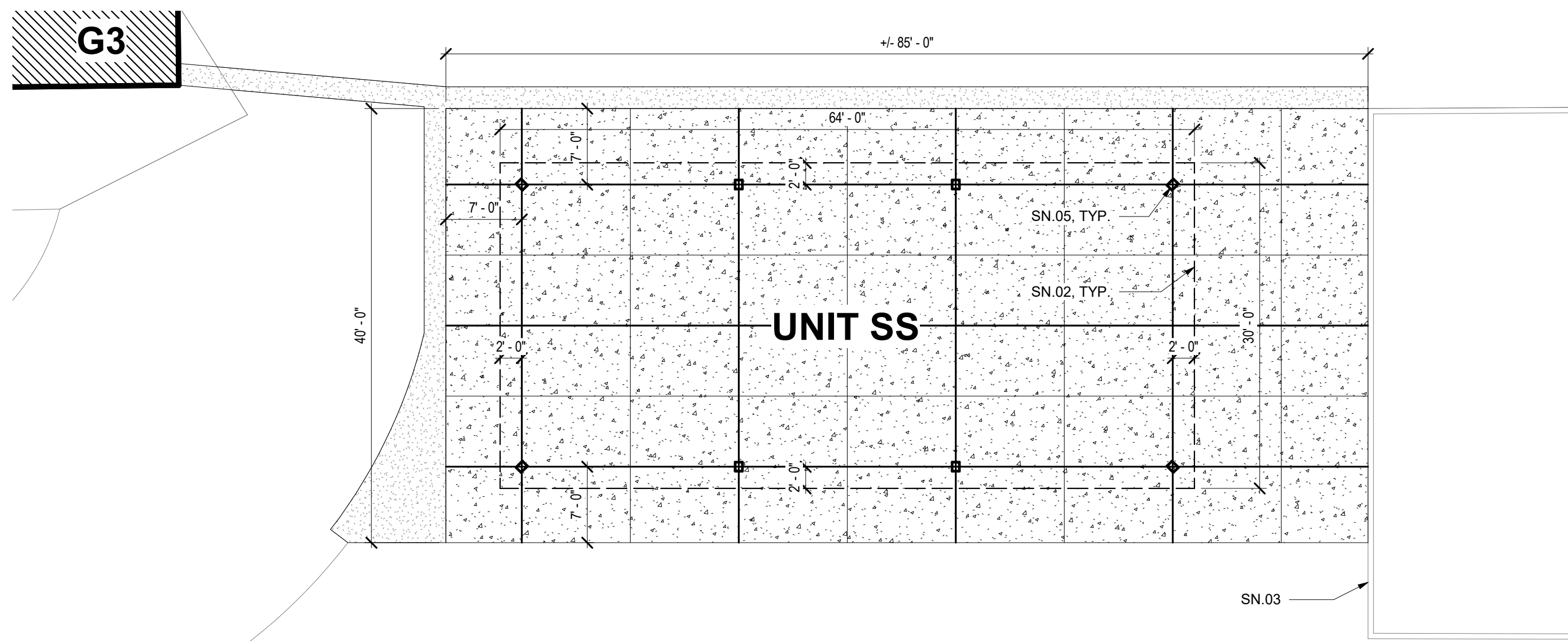
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SITE PLAN AND CODE INFORMATION

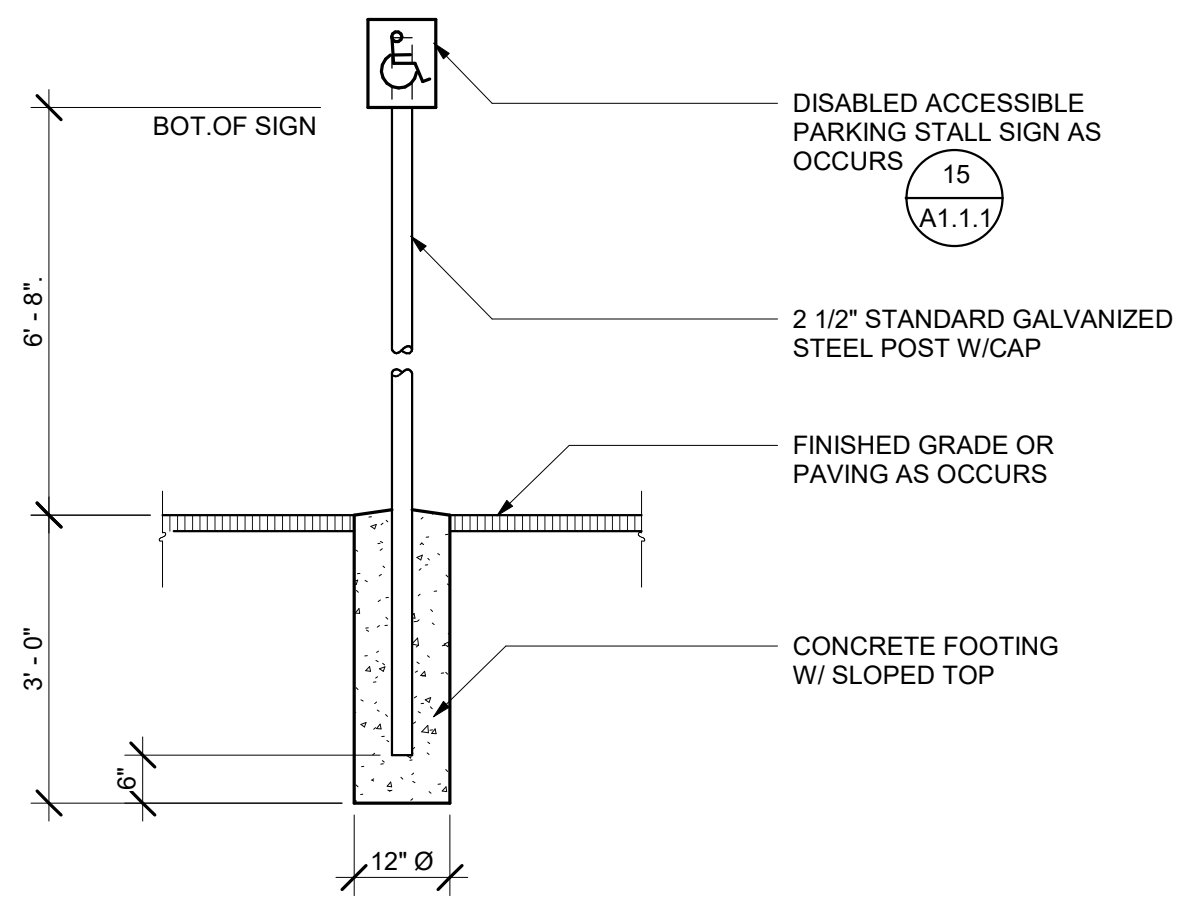
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DATE:	3/22/2022
SHEET	A1.1.0

1 SITE PLAN
1" = 30'-0"

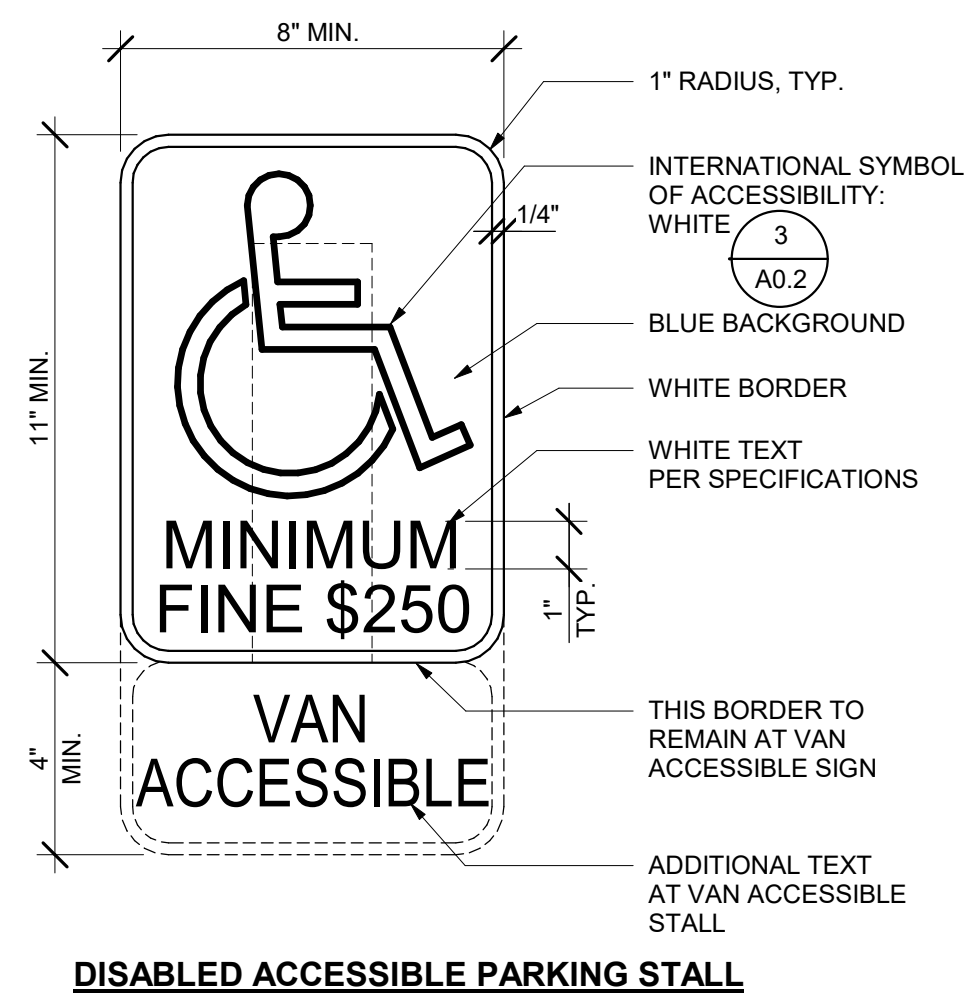
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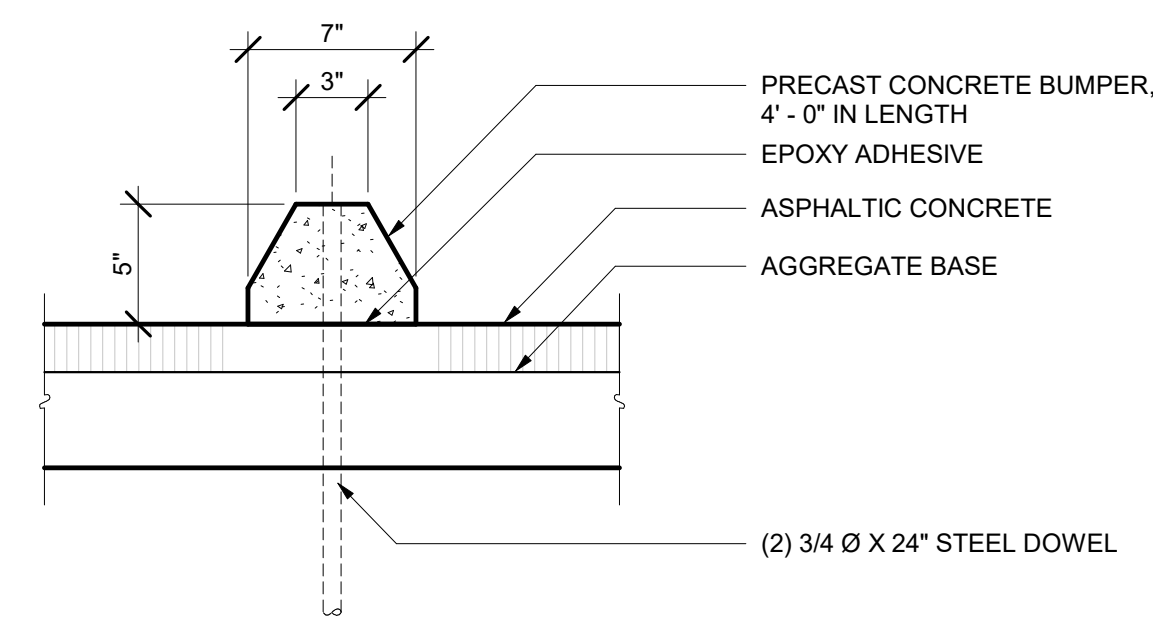
3 ENLARGED PLAN - SHADE STRUCTURE
1" = 10'-0"



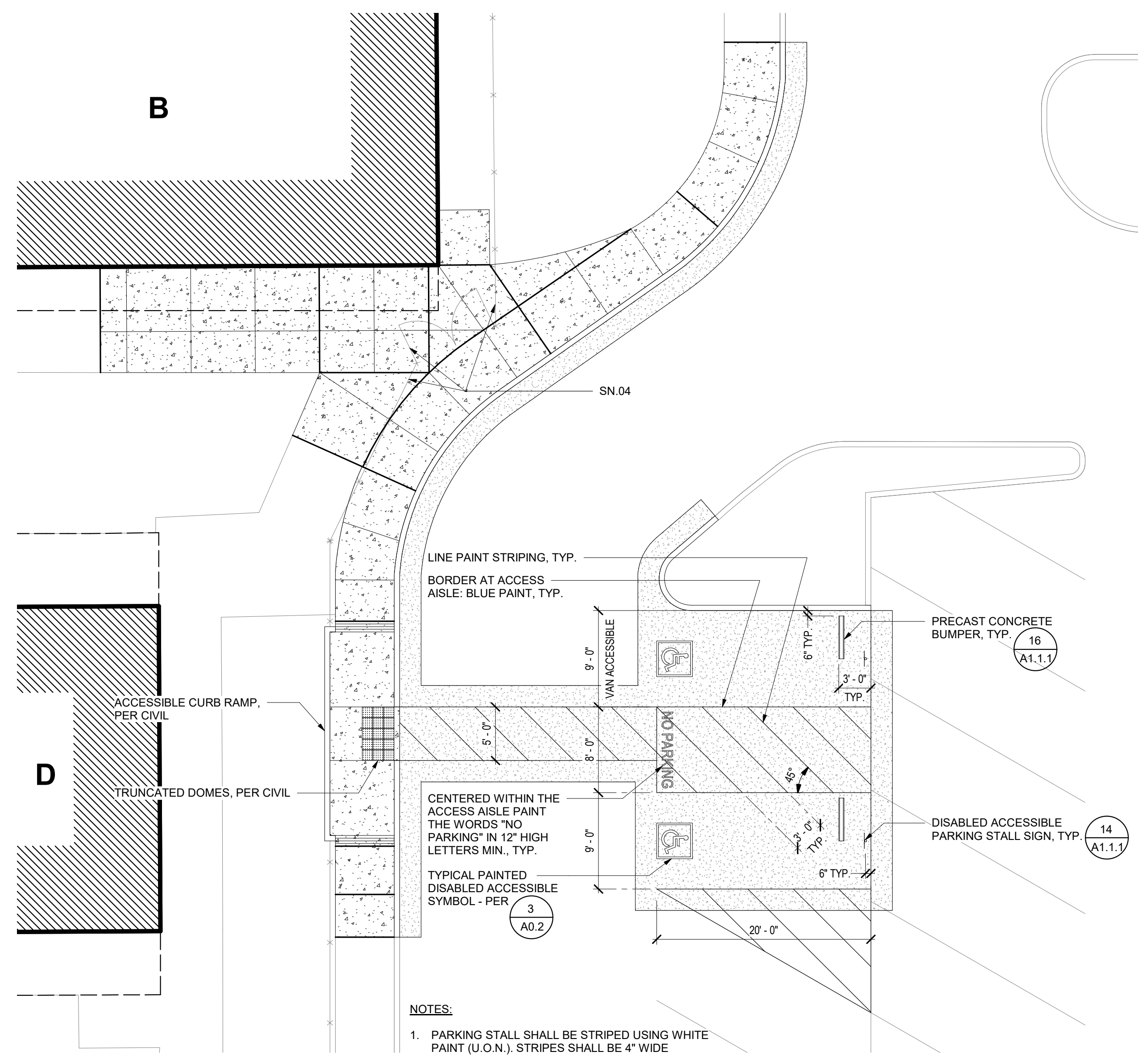
14 METAL SIGNS
1/2" = 1'-0"



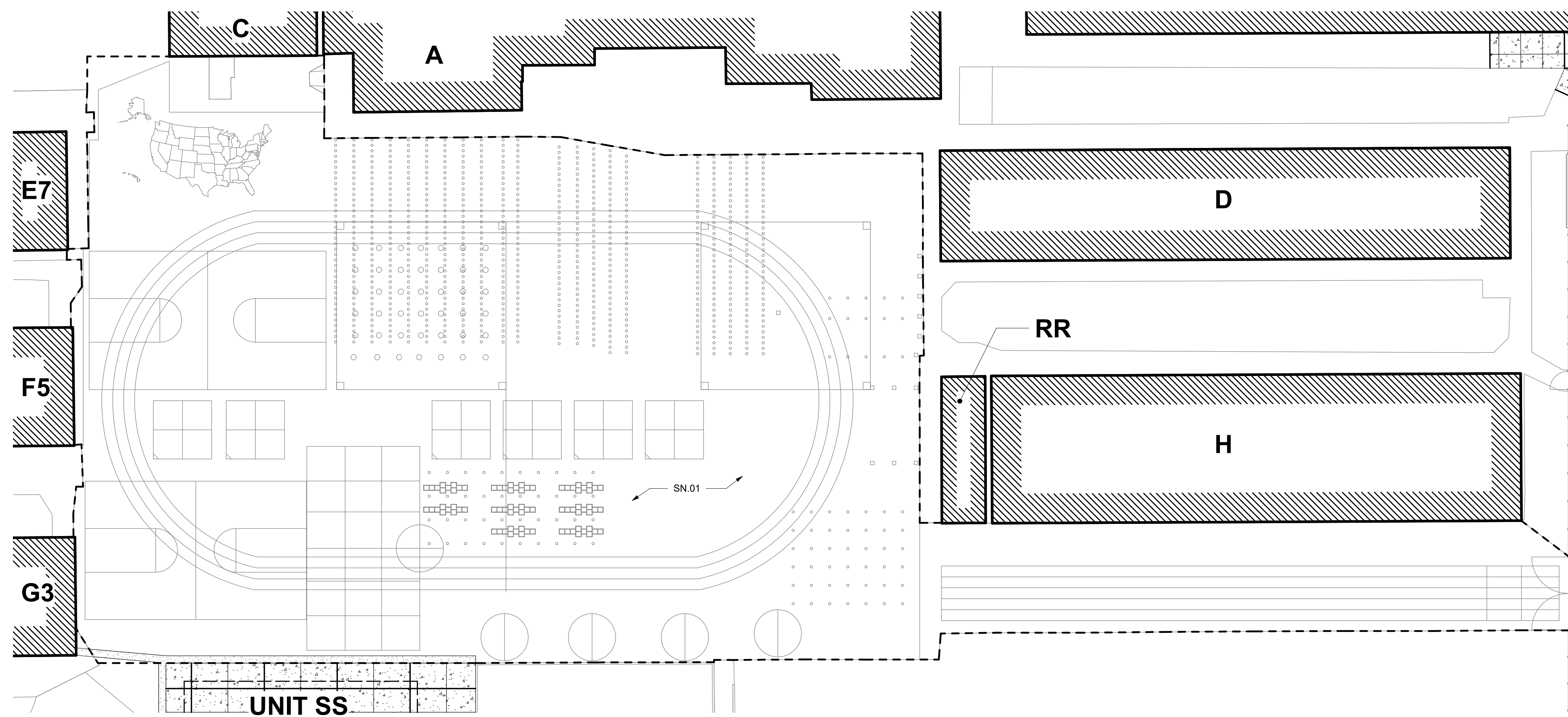
15 PARKING SIGNAGE
3" = 1'-0"



16 PRECAST CONCRETE BUMPER
1 1/2" = 1'-0"



2 ENLARGED PLAN - PARKING
1/8" = 1'-0"

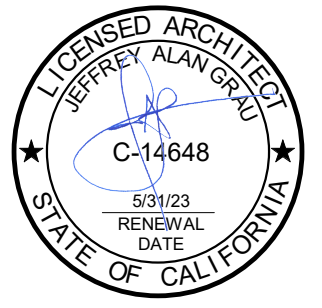
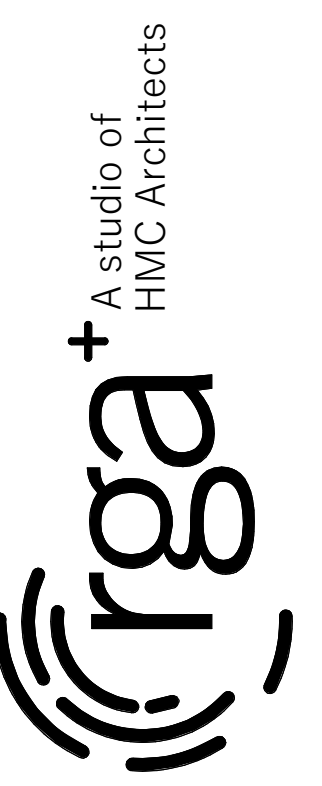


1 ENLARGED PLAN - STRIPING
1" = 20'-0"

- LEGEND**
- PROPERTY LINE
 - - - ASSUMED PROPERTY LINE
 - [X] UNIT DESIGNATION
PC SHADE STRUCTURE / DEFERRED APPROVAL
 - [Hatched] UNIT DESIGNATION
EXISTING BUILDINGS
 - [Dashed] EXPANSION JOINT
 - [Grid] CONCRETE WALK / PAVING
 - [Control] CONTROL JOINT
 - [Stippled] ASPHALT CONCRETE PAVING

- GENERAL NOTES**
1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF CRACK REPAIR AT (E) HARDCOURT.
 2. 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
 - SN.02 ROOF OVERHANG ABOVE, PER PC SHADE STRUCTURE / DEFERRED APPROVAL
 - SN.03 (E) APPARATUS CURB TO REMAIN
 - SN.04 (E) FENCE AND GATE TO REMAIN
 - SN.05 HSS COLUMN AND FOOTING, PER PC SHADE STRUCTURE / DEFERRED APPROVAL



SHADE STRUCTURE AT ELDER CREEK
ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

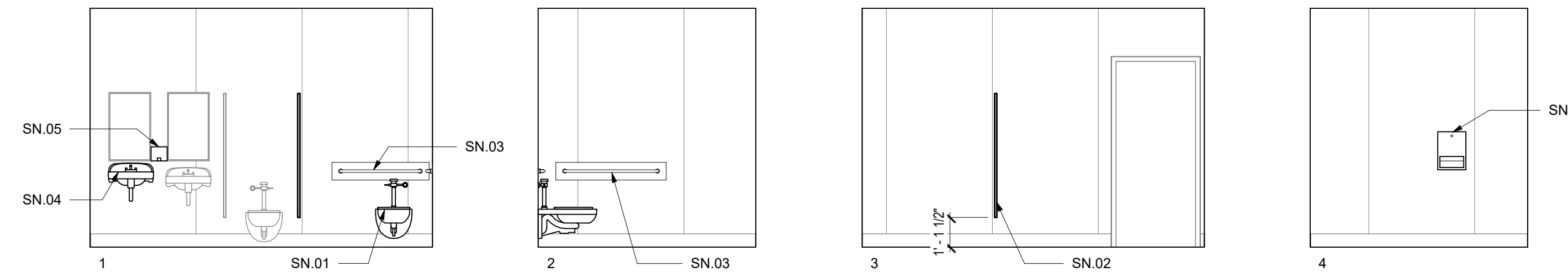
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**PARTIAL SITE PLANS
AND DETAILS**

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DATE: 3/22/2022
SHEET

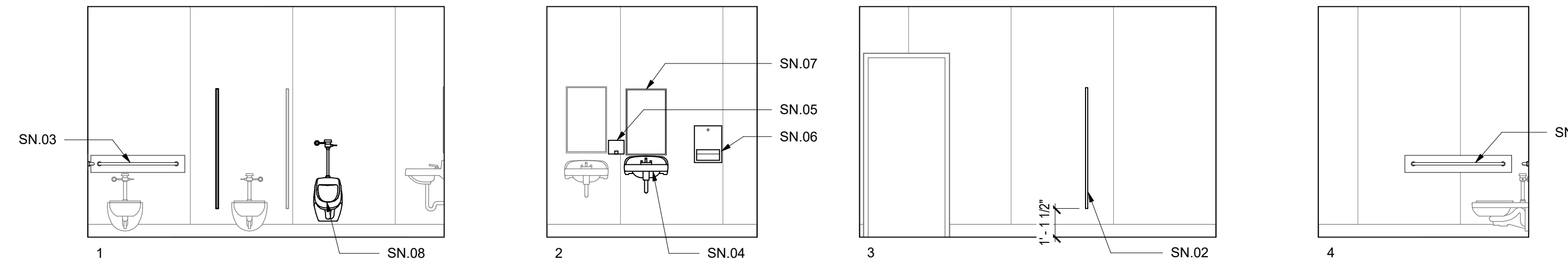
A1.1.1

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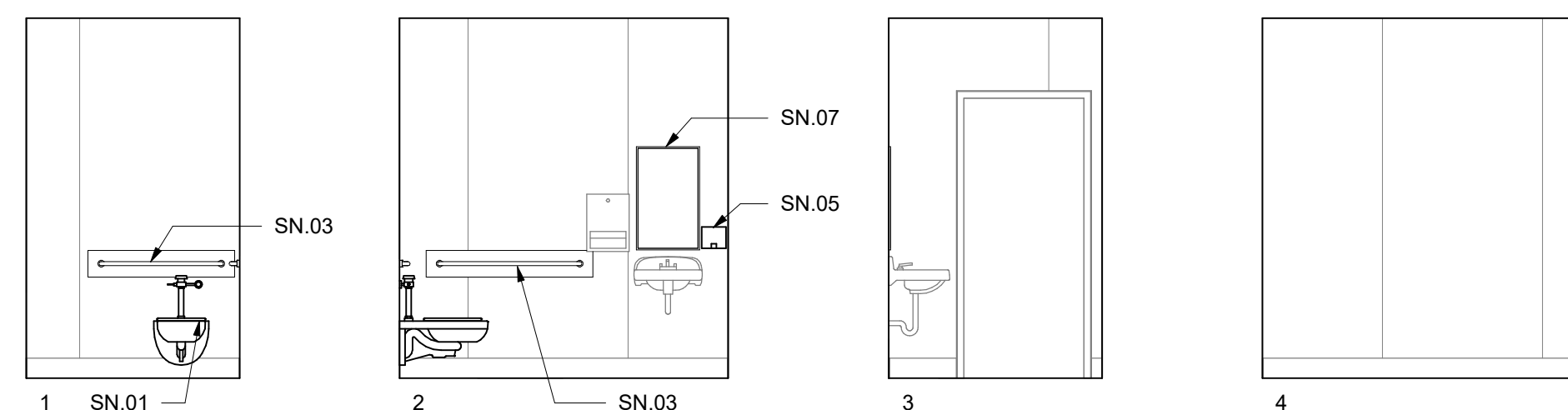
RR101 - GIRLS
1/4" = 1'-0"

ADULT HEIGHT



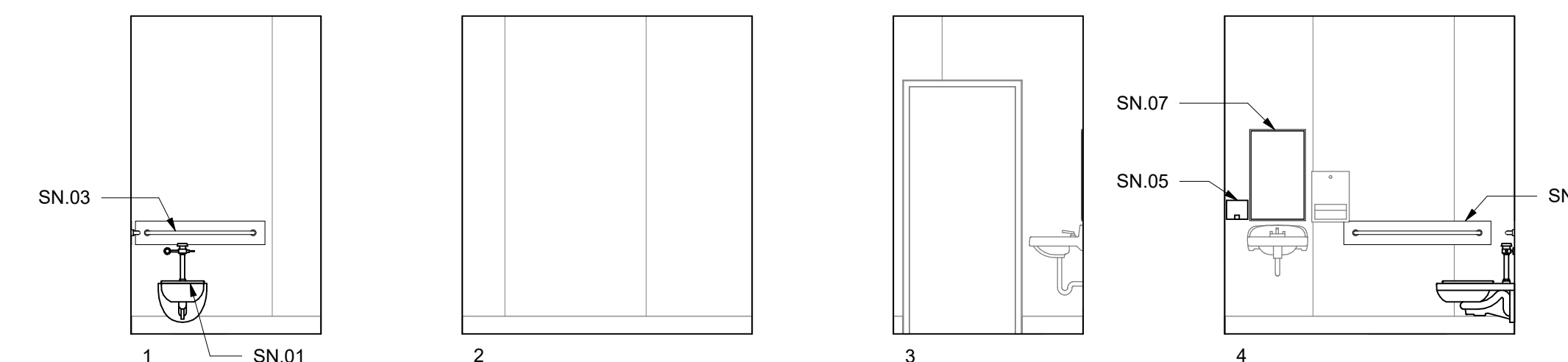
RR102 - BOYS
1/4" = 1'-0"

ADULT HEIGHT



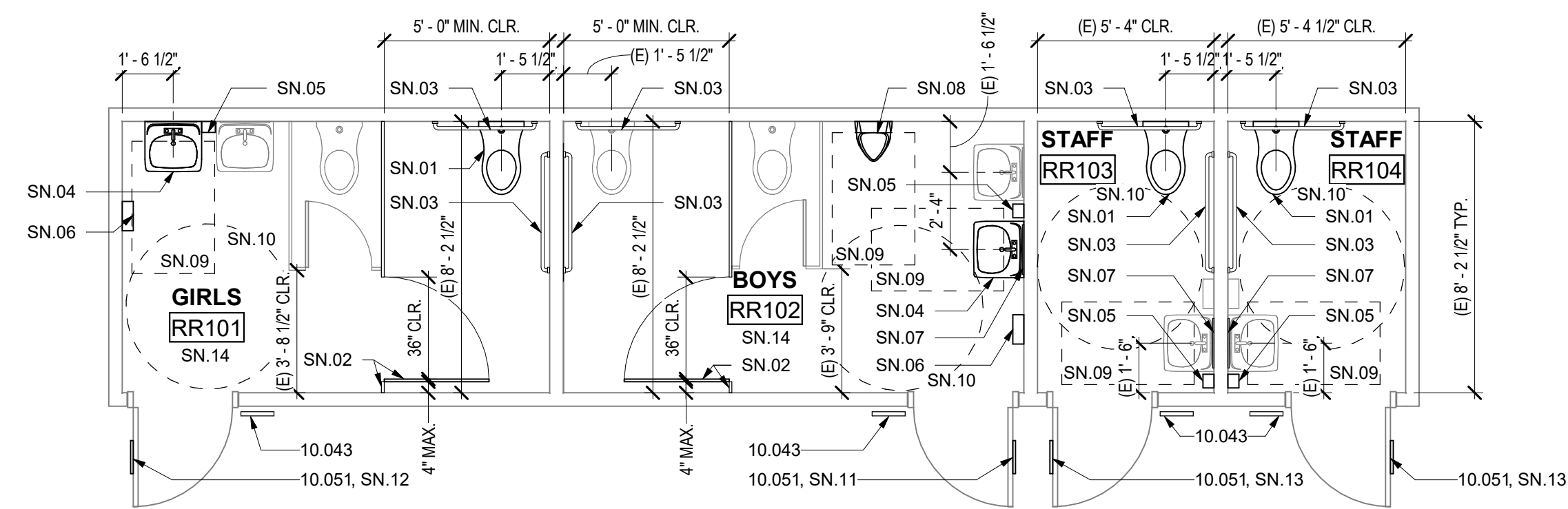
RR103 - STAFF
1/4" = 1'-0"

ADULT HEIGHT



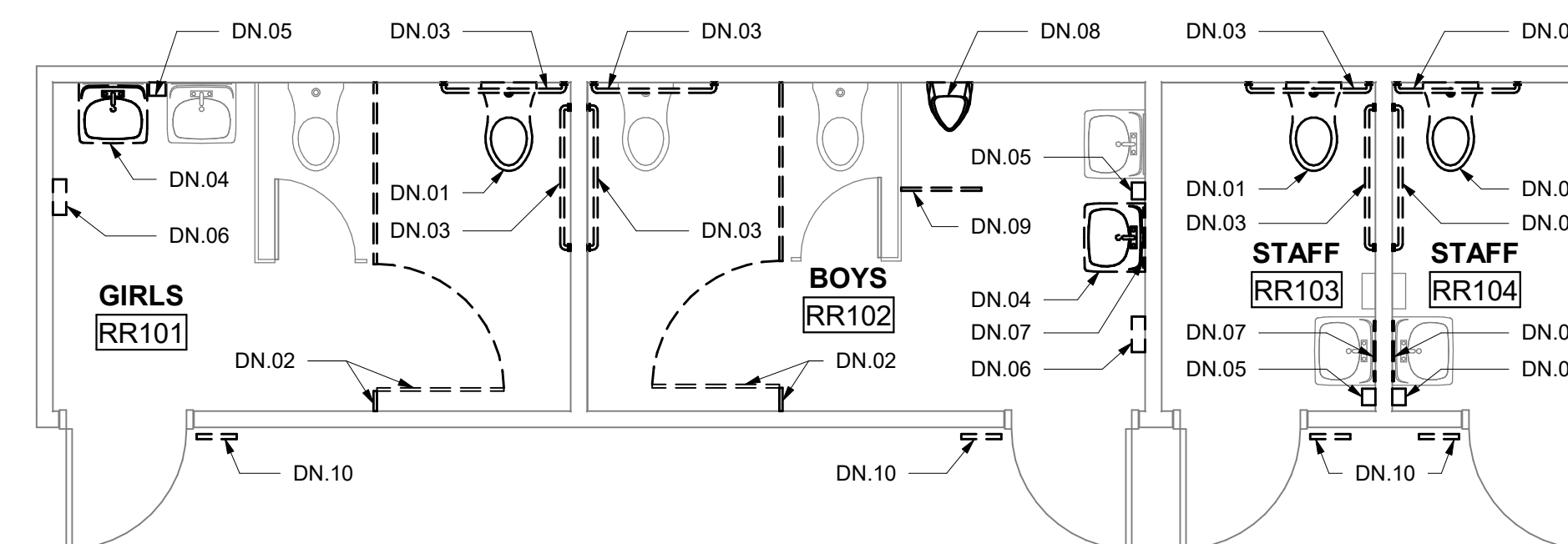
RR104 - STAFF
1/4" = 1'-0"

ADULT HEIGHT



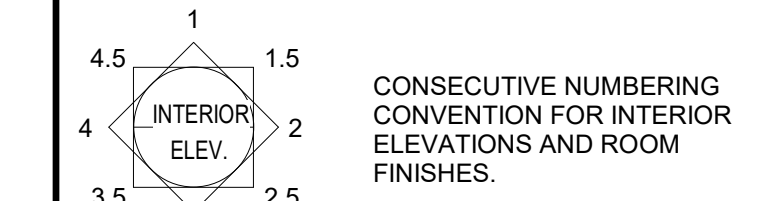
2 TOILET ROOMS - IMPROVEMENT
1/4" = 1'-0"

ADULT HEIGHT



1 TOILET ROOMS - DEMOLITION
1/4" = 1'-0"

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

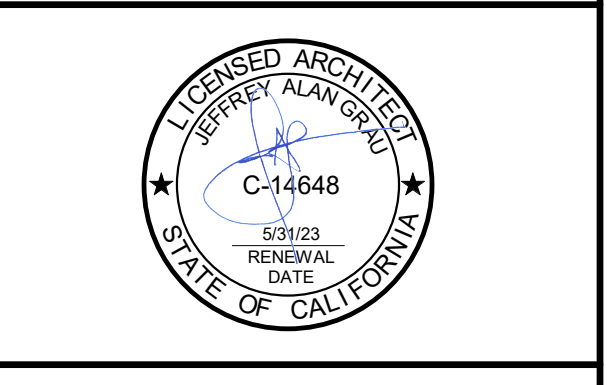
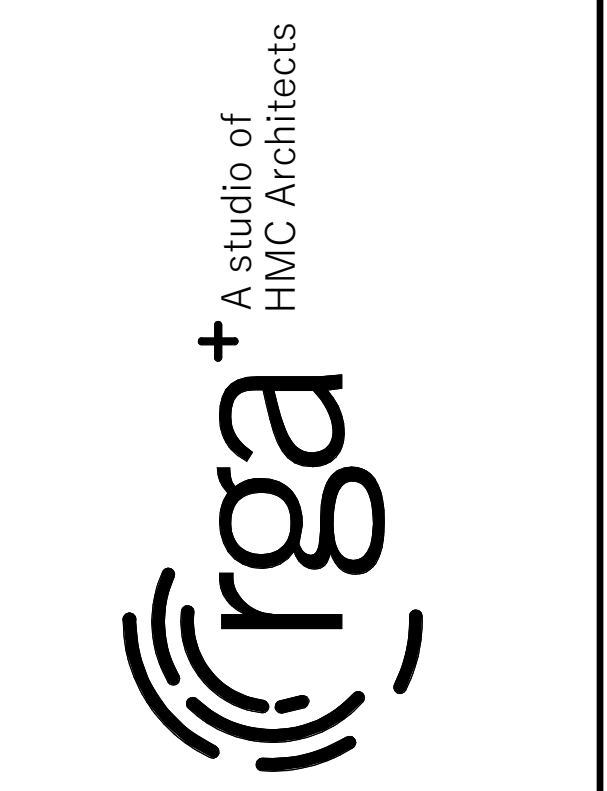
- REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
- REMOVE (E) TOILET PARTITION AND TOILET PARTITION DOOR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) GRAB BARS AND SALVAGE FOR REINSTALLATION
- REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
- REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGED FOR REINSTALLATION
- REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) WALL-MOUNTED URINAL AND SALVAGE FOR REINSTALLATION
- REMOVE (E) URINAL SCREEN
- REMOVE (E) TOILET ROOM I.D. SIGN

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 TOILET PARTITION AND TOILET PARTITION DOOR
- REINSTALL (E) SALVAGED GRAB BARS 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 SOAP DISPENSER TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED WALL-MOUNTED URINAL TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO URINAL. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.
- 30" X 48" CLEAR SPACE
- 80" DIA. TURNING CIRCLE
- SIGN TO READ "BOYS"
- SIGN TO READ "GIRLS"
- SIGN TO READ "STAFF"
- WRAP ALL EXPOSED PIPES WITH INSULATION AT LAVATORIES

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
- 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL



**SHADE STRUCTURE AT ELDER CREEK
ELEMENTARY SCHOOL**

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA**

Revision

**TOILET ROOM
DEMOLITION AND
IMPROVEMENT PLANS
AND INTERIOR
ELEVATIONS**

UNIT RR
PROJECT NO. 1504.12
DATE: 3/22/2022
SHEET **A2.1.1**

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 AMP TRIP 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
 CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
 CIRC 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
 ENT ELECTRICAL METALLIC TUBING
 EQ END OF LINE DEVICE
 EQUIP EQUIPMENT
 (ER) EXISTING RELOCATED
 EWH ELECTRICAL WATER COOLER
 EWH ELECTRICAL WATER HEATER
 (F) FUTURE
 FAFC 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 GAS PIPE
 GYP GYPSUM
 HID HIGH INTENSITY DISCHARGE
 HT HORSE POWER
 HT HEIGHT
 HERTZ
 IMC INTERMEDIATE METALLIC CONDUIT
 INCH
 ISC SHORT CIRCUIT CURRENT
 (RMS SYMMETRICAL)
 ISO ISOLATED
 J-BOX JUNCTION BOX
 KCMIL THOUSAND CIRCULAR MILLS
 KVA KILO VOLT AMP
 KW KILOWATT
 LC LIGHTING CONTROL PANEL
 LV LOW VOLTAGE
 MCM THOUSAND CIRCULAR MILLS
 MECH MECHANICAL
 MDP MAIN DISTRIBUTION PANEL
 MH METAL HALIDE
 MISC MISCELLANEOUS
 MLO MAIN LUGS ONLY
 MPEE 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
 OFCI 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 BUSBAR
 TMB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
 TTB TELEPHONE TERMINAL BOARD
 TYP TYPICAL
 UC UNDERGROUND
 UNLESS OTHERWISE NOTED
 V VOLTS
 WP WEATHERPROOF
 W WEIGHT
 W WATT
 W/ WITH
 XFRM 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 CEILINGS. INSTALL ESCUTCHEON PLATES AT BUILDING INTERIOR. WHEN 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.
 17.1. 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, CEILINGS 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 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

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

MP MD PP E OPTION 2: SHALL COMPLY WITH 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
- EM- 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"-1 SIGNIFIES DETAIL, "E"-1 SIGNIFIES SHEET NUMBER
- (1)1-1/2'c ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
- ← NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

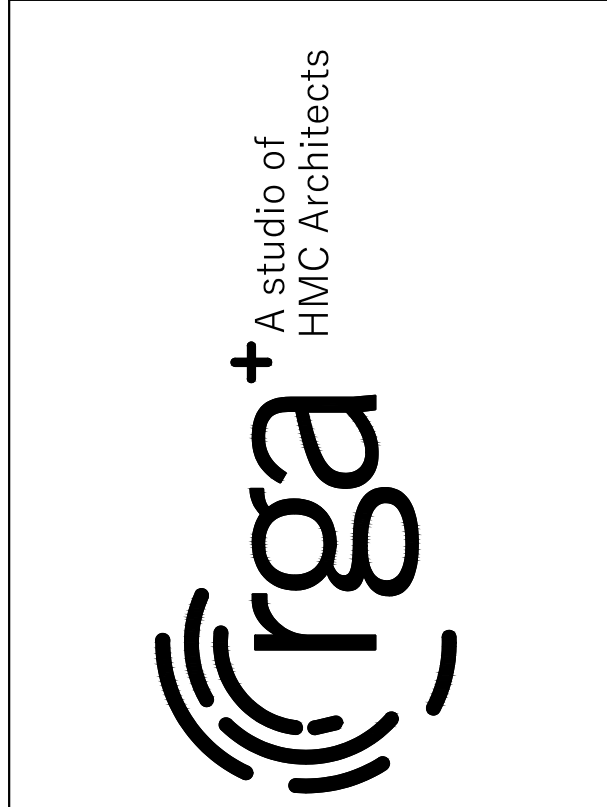
SYMBOLS LIST NOTES:

- 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:
 - +48" 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.

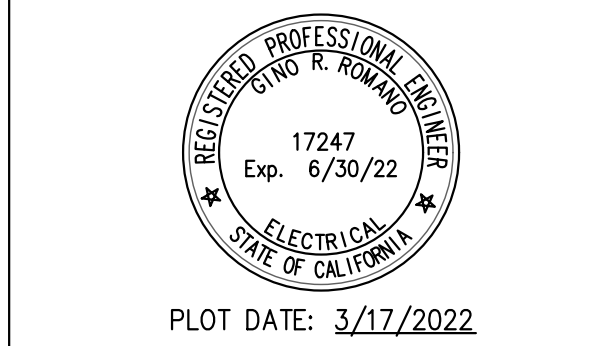
120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

LOAD IN VOLT AMPERES	LENGTH OF CONDUCTOR WIRE SIZE IN (GAUGE)			
	#12	#10	#8	#6
1200VA	74	121	183	284
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: 3/17/2022

SHADE STRUCTURE AT ELDER CREEK ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

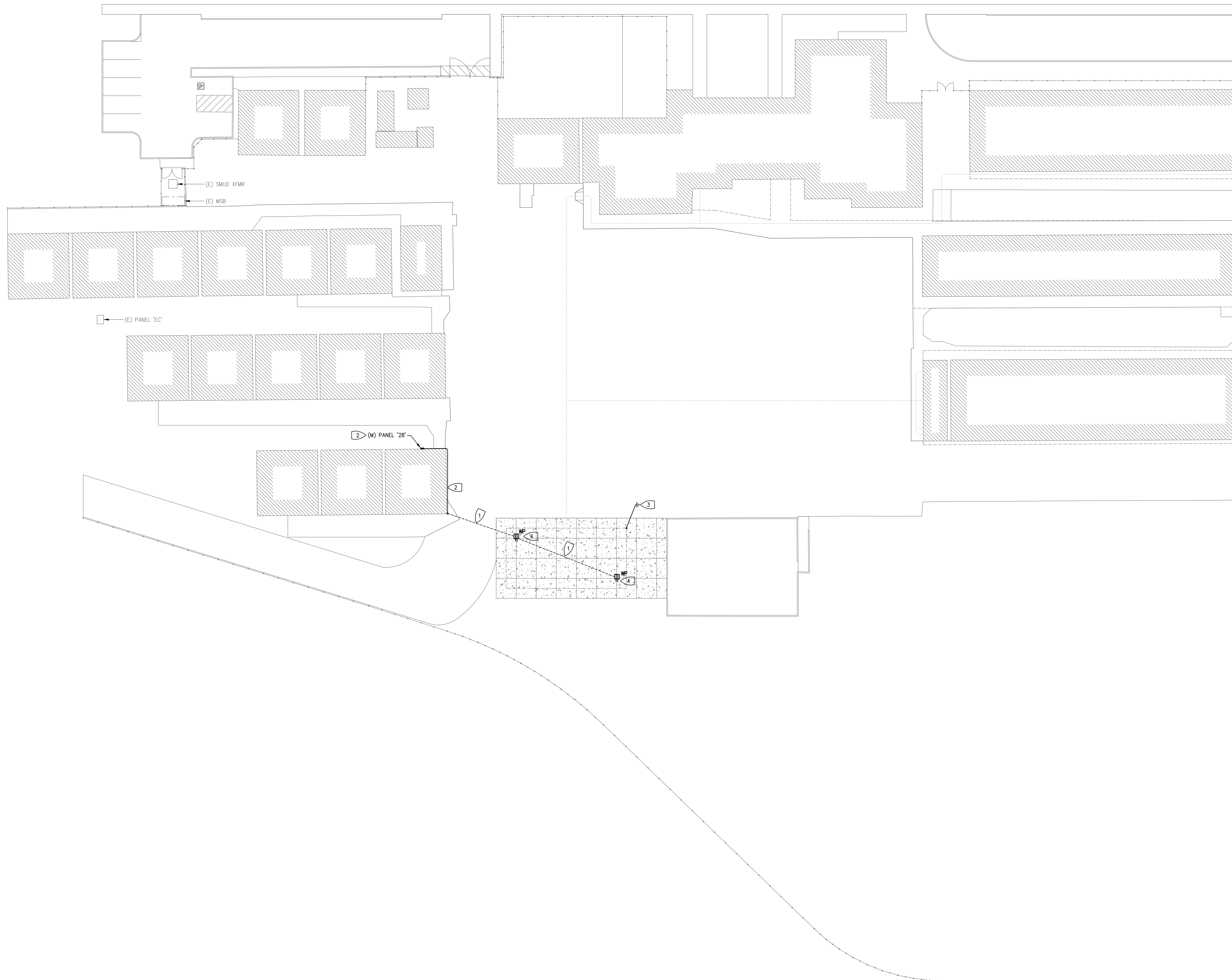
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SYMBOLS, NOTES

PROJECT NO. 1504.12
 DATE: 3/21/2022
 SHEET

E0.1

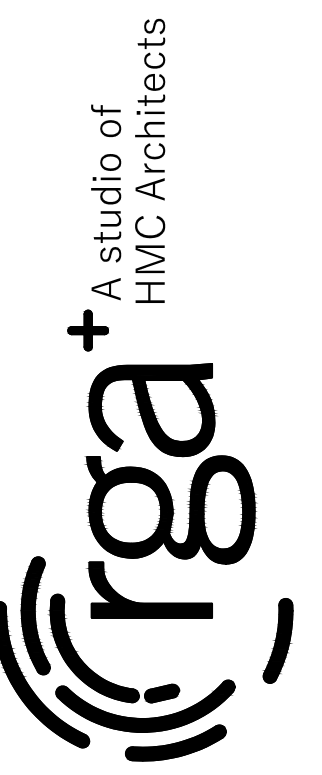


SHEET NOTES:

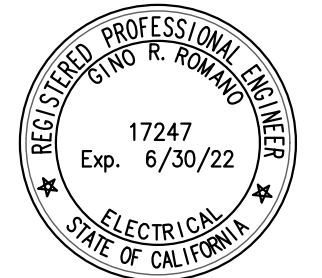
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

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) CONCRETE/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 PROVIDE J-BOX HIGH ON WALL. RUN CONDUIT HIGH ON WALL TO WRAP AROUND BUILDING, AND DROP CONDUIT TO BELOW CONCRETE/ASPHALT. PROVIDE CHRISTY N9 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
- 3 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**.
- 4 LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.



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SHADE STRUCTURE AT ELDER CREEK
 ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

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**SITE PLAN -
 ELECTRICAL**

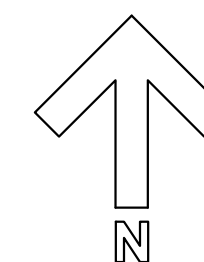
PROJECT NO. 1504.12

DATE: 3/21/2022

SHEET

E1.1

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



MODIFIED

PANEL:	MANF: WESTINGHOUSE	MAIN: 100/2	SERVICE: 100 AMP	MOUNTING: 120 /208 VOLT	ENCLOSURE: SURFACE	10K A/C		
28	TYPE: LOAD CENTER	BUS: 125 AMP	FEEDER RATING: 125 AMP	1 Ø, 3W	WIDTH: 14"	100% NEUT.		
AØ	BØ	DIRECTORY	BRKR	CKT	CKT BRKR	DIRECTORY	AØ	BØ
		MAIN	100/2	1	2	DO NOT REMOVE THIS K.O.		
		"	-	3	4	"		
1000		PHOTO CELLS	20/1	5	6	20/1	RECEPTS	1200
		A LIGHT	20/1	7	8	20/1	RECEPTS	1200
		B LIGHT	20/1	9	10	20/1	RECEPTS	1200
360		RECEPTS - SHADE STRUCT. [S]	20/1	11	12	PFB	SPACE	4160
		SPACE	PFB	13	14	60/2	H/A	4160
		SPACE	PFB	15	16	-	-	4160
		NEW LOAD	DEMAND REGULINGS			PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND
		TOTAL PANEL VA	AMPS	AMPS @125%	AMPS	VA	LOAD	
AØ =		7560 VA	63.0	9.5	11.9	74.9 A	8985 VA	15275 VA
BØ =		5720 VA	47.7	3.8	4.8	52.4 A	6290 VA	74.9 AMPS

NOTES:

- FEEDER CONDUCTORS CONSIST OF 3#1 + 1#6 GND CU
- BRANCH BREAKERS ARE WESTINGHOUSE TYPE BR
- PROVIDE TYPE-WRITTEN PANEL DIRECTORY
- ALL NEW BREAKERS TO MATCH EXISTING TYPES
- PROVIDE NEW 20 AMP, SINGLE-POLE BREAKER.

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:

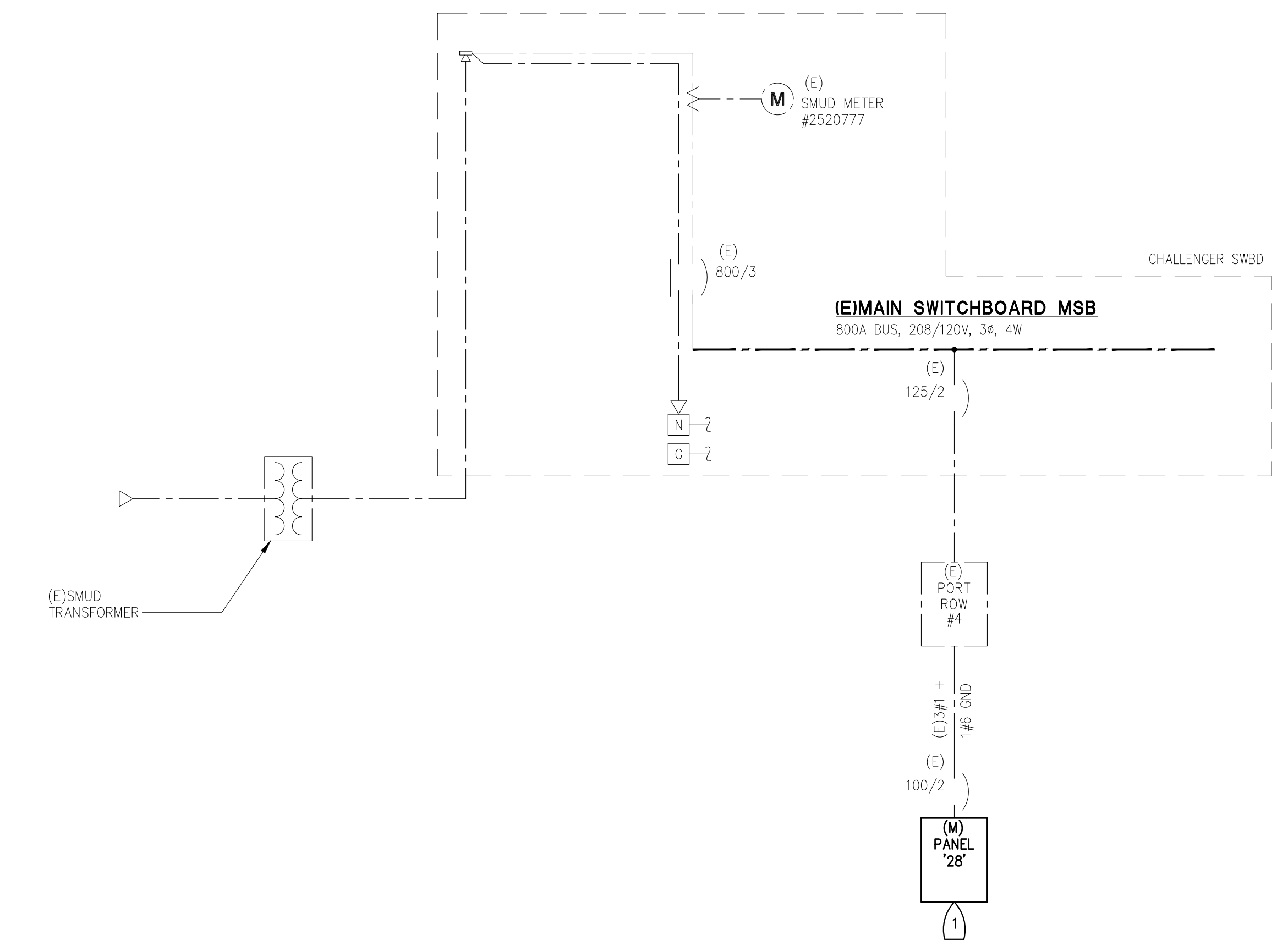
1 MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.

Voltage Drop Calculations Copper

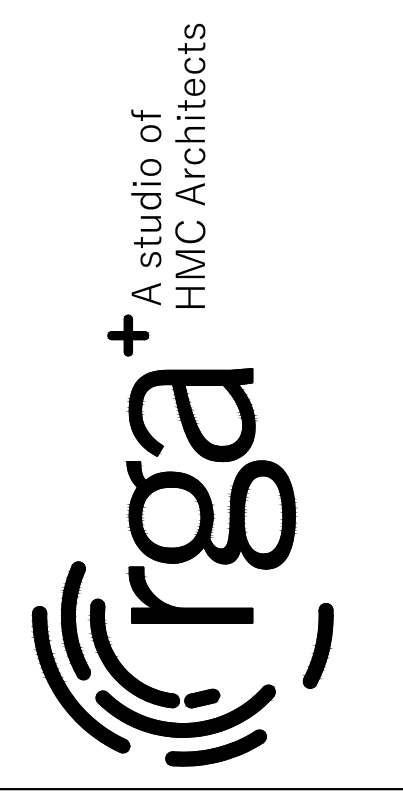
Job Name: Elder Creek Elementary School - Shade Structure Job #: 22.020
Date: 3/10/2022

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	0.4	119.29	119	119	1	3.00	10	1995	0.71	0.59%
RECEPT-2	1.5	0.2	119.10	62	181	1	1.50	10	1995	0.90	0.75%



1 ONE LINE DIAGRAM
SCALE: NONE



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PLOT DATE: 3/17/2022

**SHADE STRUCTURE AT ELDER CREEK
ELEMENTARY SCHOOL**

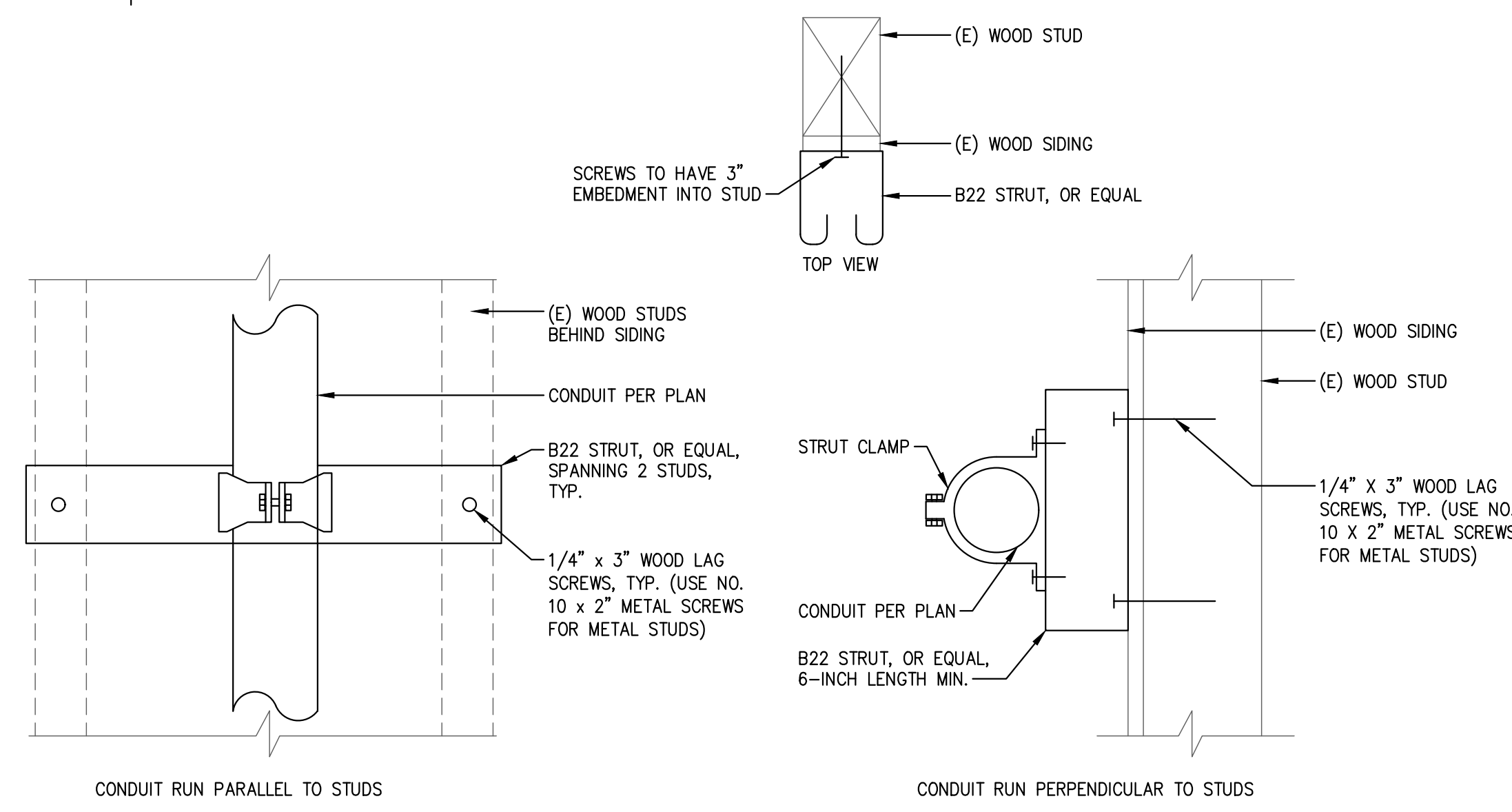
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SACRAMENTO, CA**

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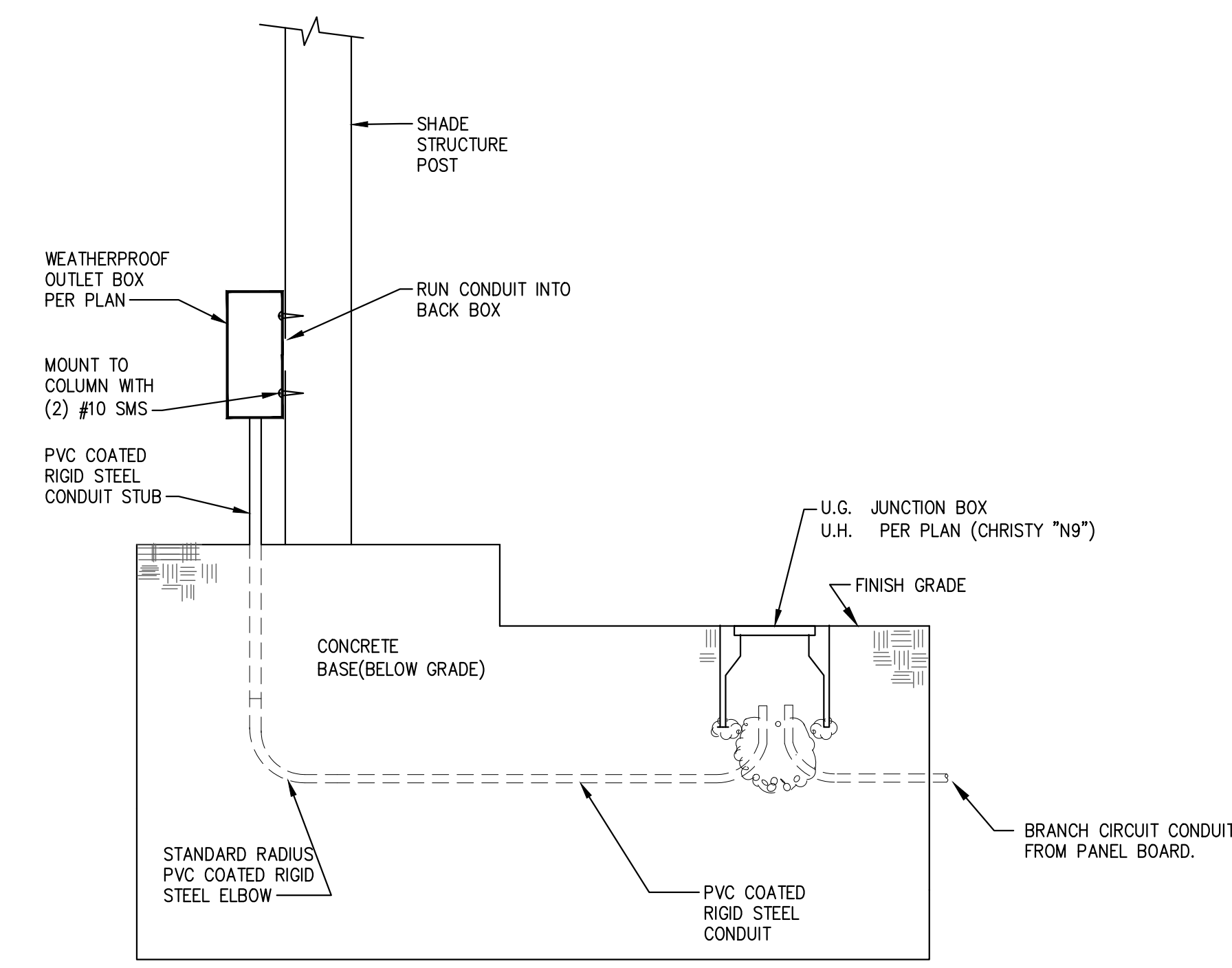
ONE LINE DIAGRAM

PROJECT NO. 1504.12
DATE: 3/21/2022
SHEET **E2.1**

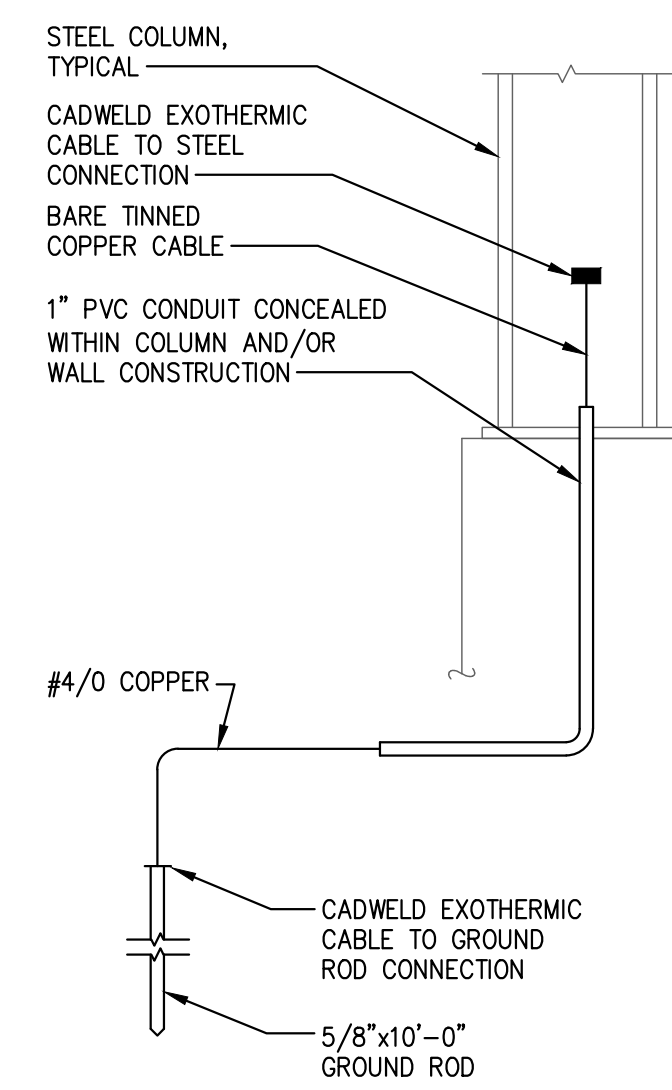


- NOTES:
- CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 - PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 - MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

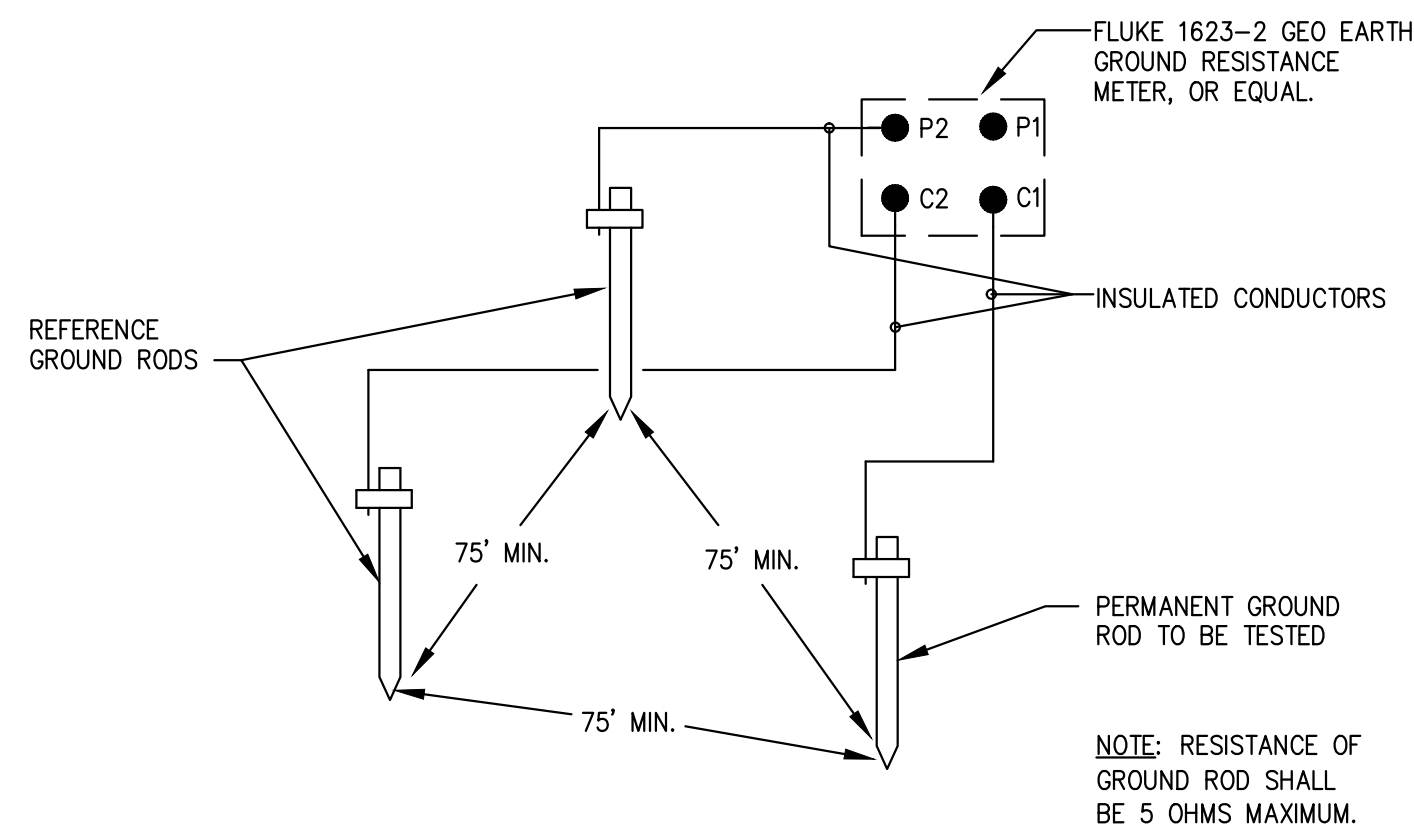


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE

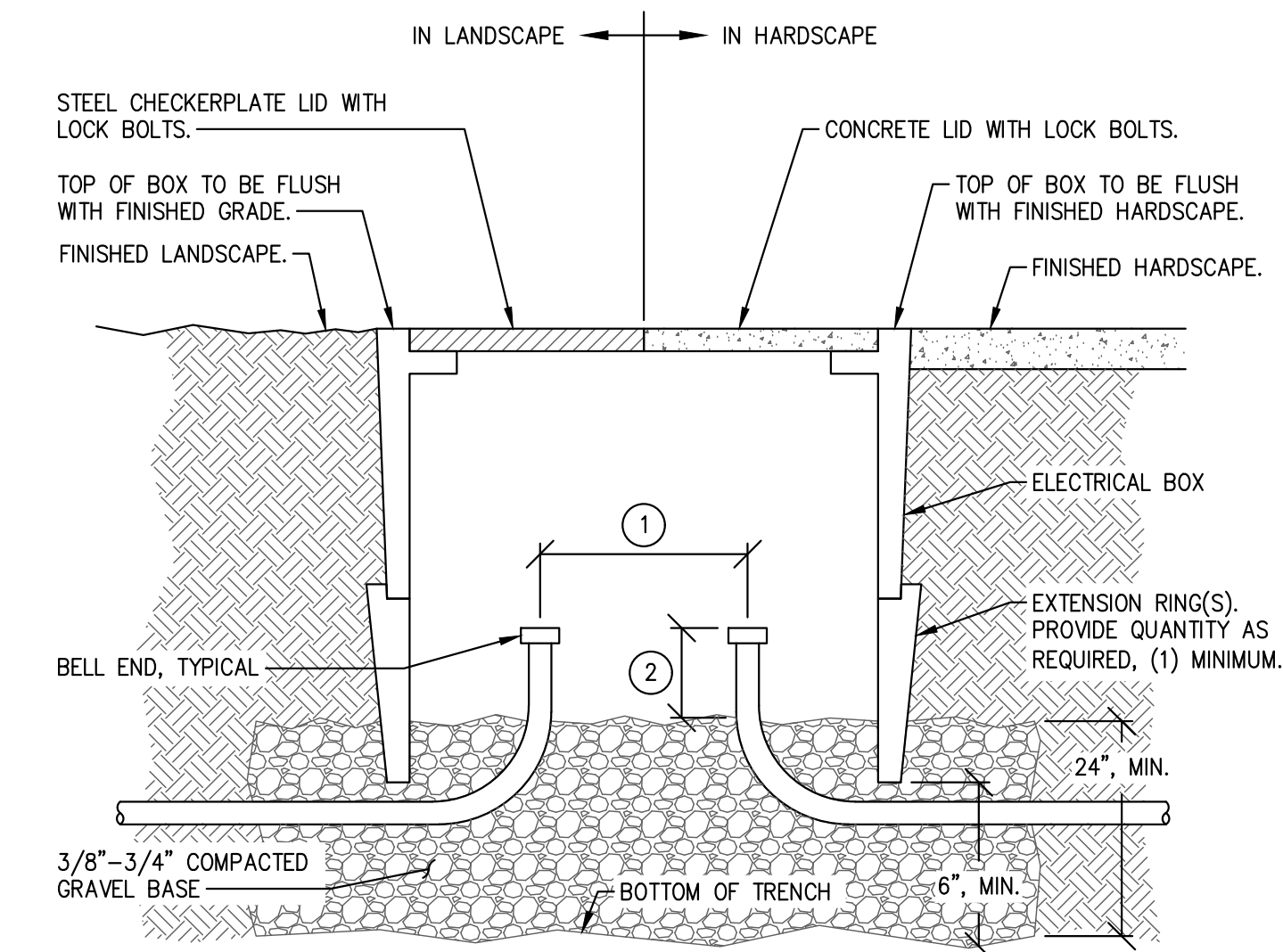


- NOTES:
- ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 - FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE

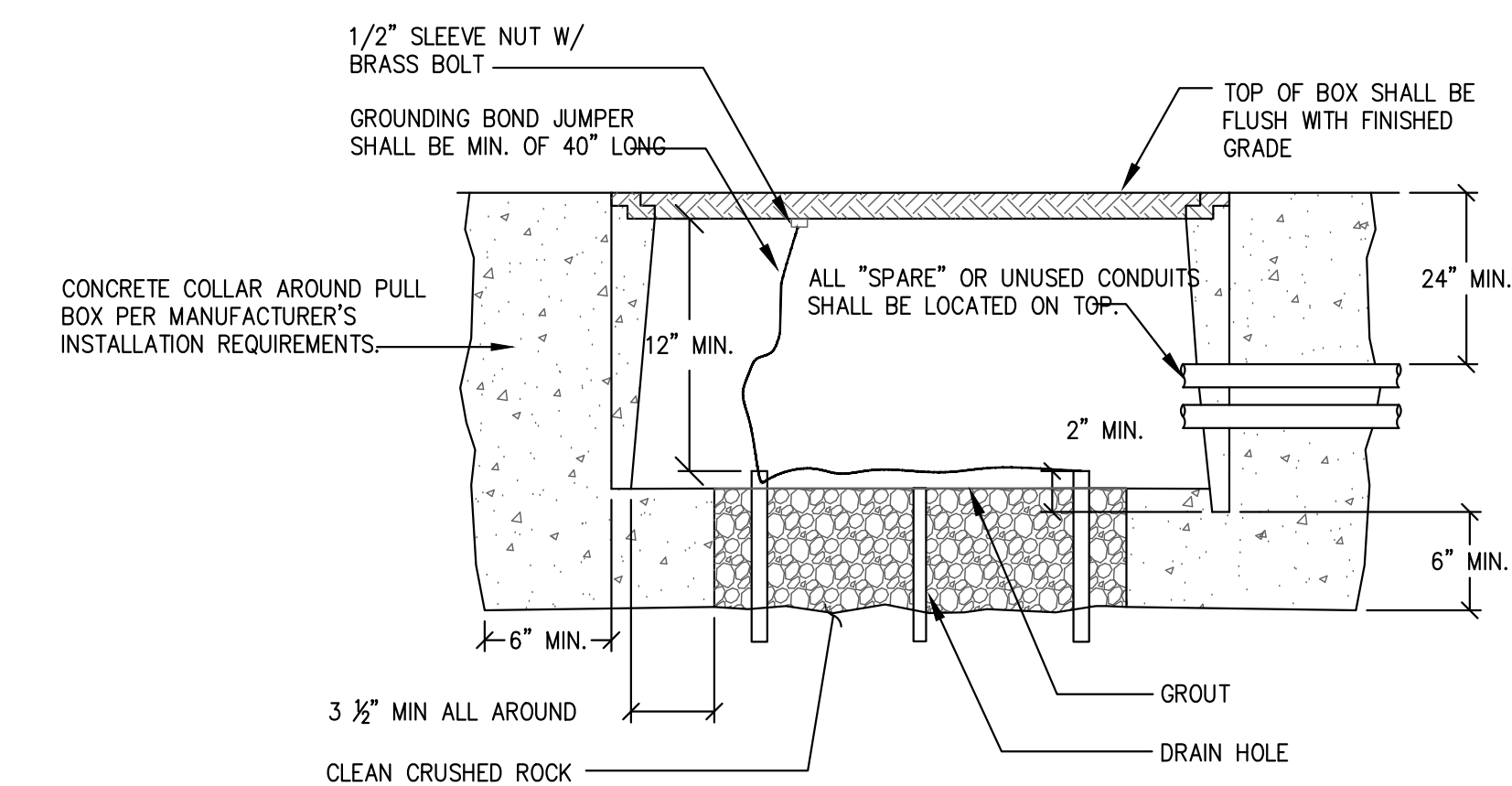


6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE



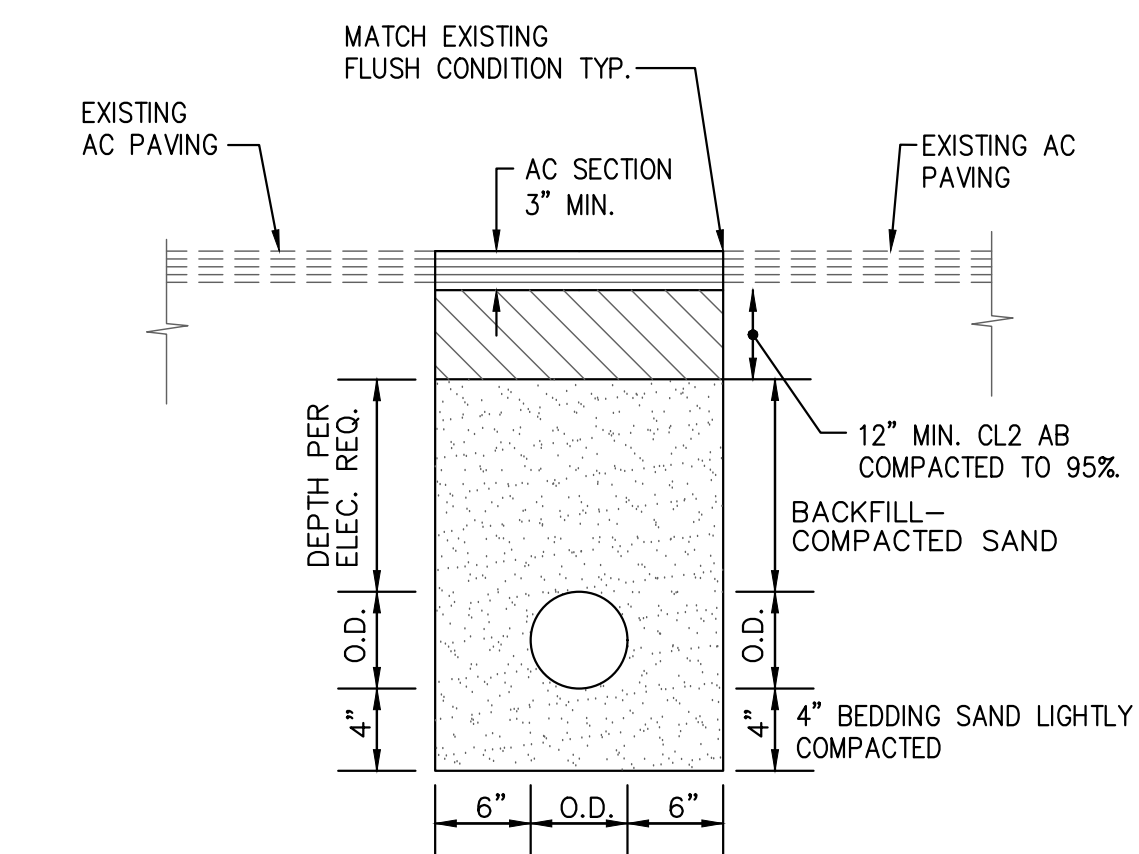
- KEY NOTES:
- WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 - TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX
SCALE: NONE

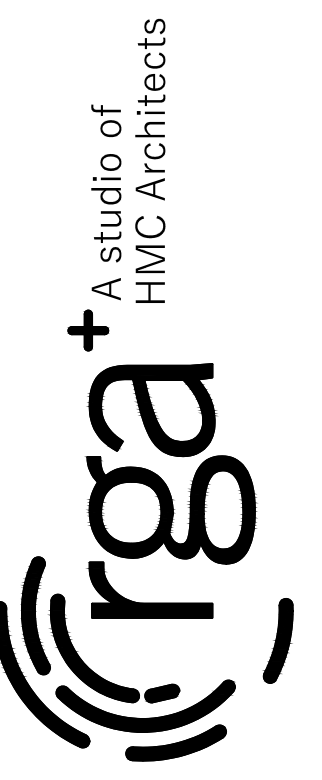


- NOTES:
- HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 - PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 - WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4\"/>

2 TRAFFIC RATED PULL BOX
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT ELDER CREEK
ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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DETAILS

PROJECT NO. 1504.12
DATE: 3/21/2022
SHEET E3.1

DESIGN CRITERIA table with columns for DESCRIPTION and DESIGN VALUES. Includes sections for DEAD AND LIVE LOADS, ROOF SNOW LOAD, GROUND SNOW LOAD, WIND DESIGN, SEISMIC DESIGN, and FLOOD DESIGN.

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... 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.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.

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.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO ASTM A-563.

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.

Table with columns: STRENGTH (28 DAYS), W/C RATIO (NON-AIR ENTRAINED), W/C RATIO (AIR ENTRAINED), SLUMP (IN), UNIT WEIGHT (NORMAL WEIGHT).

- 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.

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

Form with fields for PROJECT NAME and SCHOOL DISTRICT.

Table for STEP 1: FRAME DIMENSIONS. Columns: FRAME WIDTH, FRAME LENGTH, SUGGESTED, OTHER.

Table for STEP 2: ROOF PANEL. Columns: ROOF PANEL TYPE, M, G, S.

Table for STEP 3: PROJECT SITE - Ss ACCELERATION (g). Value: 0.642.

Table for STEP 4: Ss REGION. Columns: DESCRIPTION, Ss REGION, MAX DEAD LOAD.

Table for STEP 5: TOTAL ROOF DEAD LOAD. Columns: DEAD LOAD, EXAMPLES.

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:

POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:

Table with columns: ABBREVIATIONS, ACI, AISC, ASM, ASTM, AWS, CBC, C/P, CLR, DEG, DIA, DIM, DSA, EQ, FT, GA, IN, KSI, MAX, MN, MISC.

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

Table for STRUCTURAL SEPARATION showing deflections for side and corner columns at various heights.

Table for ARCHITECTURAL REQUIREMENTS with columns: DESCRIPTION, DESIGN VAULES.

RELATED BUILDING CODES AND STANDARDS

- TITLE 24 CODES: 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2019 CALIFORNIA BUILDING CODE (CBC), 2019 CALIFORNIA ELECTRICAL CODE, 2019 CALIFORNIA MECHANICAL CODE (CMC), 2019 CALIFORNIA PLUMBING CODE (CPC), 2019 CALIFORNIA ENERGY CODE, 2019 CALIFORNIA FIRE CODE (CFC), 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, 2019 CALIFORNIA REFERENCE STANDARDS CODE.

- REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS: 2019 CBC, CHAPTER 35; 2019 CFC, CHAPTER 80.

SCOPE OF WORK NARRATIVE: THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE.

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.

Table with columns: ICON STD, RH/DSA-PC, DRAWN BY, ANGEL, DATE, 4/2/2021, REV, REV DATE.

JRMA ARCHITECTS ENGINEERS logo and seal. Includes text: REGISTERED PROFESSIONAL ENGINEER, LICENSE NO. 52092, STATE OF CALIFORNIA.

07/29/2021

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

GENERAL INFO

Shelter Systems Inc logo and name.

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1455 LINCOLN AVE HOLLAND MI, 49423 616.396.0919 800.748.0985 616.396.0944 FX

LS1.0

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

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. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

**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
Continuous – Indicates that a continuous special inspection is required	GE – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.
Periodic – Indicates that a periodic special inspection is required	
Test – Indicates that a test is required	

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

7. CAST-IN-PLACE CONCRETE	Type	Performed By	Code References and Notes
Material Verification and Testing:			
<input type="checkbox"/> a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/> b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix for exemptions.)
<input checked="" type="checkbox"/> c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-14 Sections 26.5 & 26.12.
<input checked="" type="checkbox"/> d. Test concrete (f _c).	Test	LOR	1905A.1.15; ACI 318-14 Section 26.12.
Inspection:			
<input type="checkbox"/> e. Batch plant inspection.	See Notes	SI	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
<input type="checkbox"/> f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category 19.1(d) & (e) and/or 19.2(g) & (h) below.		

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

23. ANCHOR BOLTS AND ANCHOR RODS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
<input type="checkbox"/> b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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

1. GENERAL:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	*By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)

2. SOIL COMPACTION AND FILL:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Perform classification and testing of fill materials.	Test	LOR*	*Under the supervision of the geotechnical engineer.
<input type="checkbox"/> b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	GE*	*By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR Form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

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
<input checked="" type="checkbox"/> a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	SI	Table 1705A.2.1 Item 3a-3c; 2202A.1; AISI 5100-16 Section A3.1 & A3.2; AISI 5240-15 Section A3.8 & A4; AISI 5240-15 Section A4.8 & A.6; *By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/> b. Test unidentified materials.	Test	LOR	2202A.1.
<input checked="" type="checkbox"/> c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
Inspection:			
<input checked="" type="checkbox"/> d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

18. HIGH-STRENGTH BOLTS: RCSC 2			
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify identification markings and manufacturer's certificate of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISI 360-16 Section A3.3, J3.1, and N2.2; RCSC 2014 Section 1.5.8 & 2.1; DSA IR 17-8 & DSA IR 17-9.

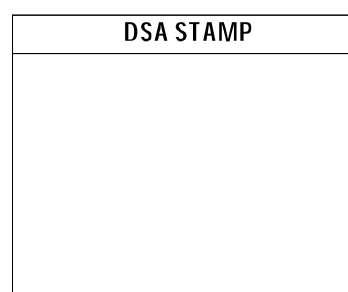
DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

<input type="checkbox"/> 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 Form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)
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4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input type="checkbox"/> b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input type="checkbox"/> c. Confirm adequate end strat bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input checked="" type="checkbox"/> d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

<input checked="" type="checkbox"/> 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:			
<input type="checkbox"/> c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISI 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
<input checked="" type="checkbox"/> d. Pretensioned and slip-critical connections.	Periodic	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISI 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.

19. WELDI			
Verification of Materials, Equipment, Welders, etc.:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

5. RETAINING WALLS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.8.1. * By geotechnical engineer or his or her qualified representative. (See Section 2 above).
<input type="checkbox"/> b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> c. Segmental retaining walls, inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 16-3.
<input type="checkbox"/> d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/> e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

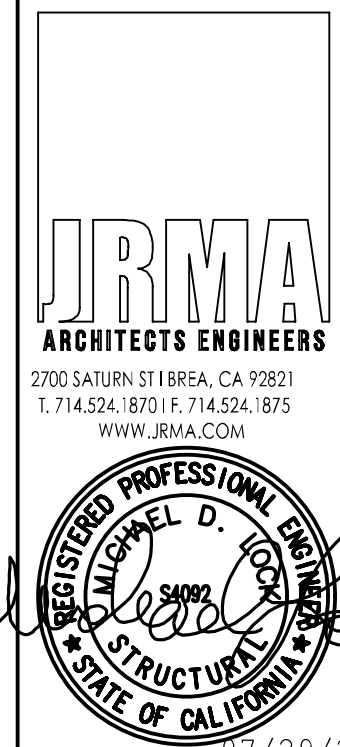
6. OTHER SOIL			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CCS for final acceptance. * By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> c.			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

19.1 SHOP WELDING:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1-4; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/> b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2; Table 1705A.2.1 Items 5a.5 & 5a.6; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
<input type="checkbox"/> c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISI 360-16 (and AISI 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
<input type="checkbox"/> d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/> e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

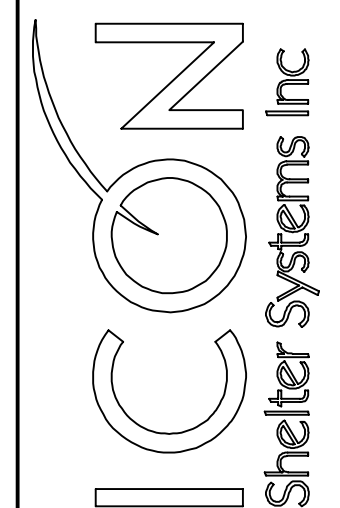
23. ANCHOR BOLTS AND ANCHOR RODS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
<input type="checkbox"/> b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

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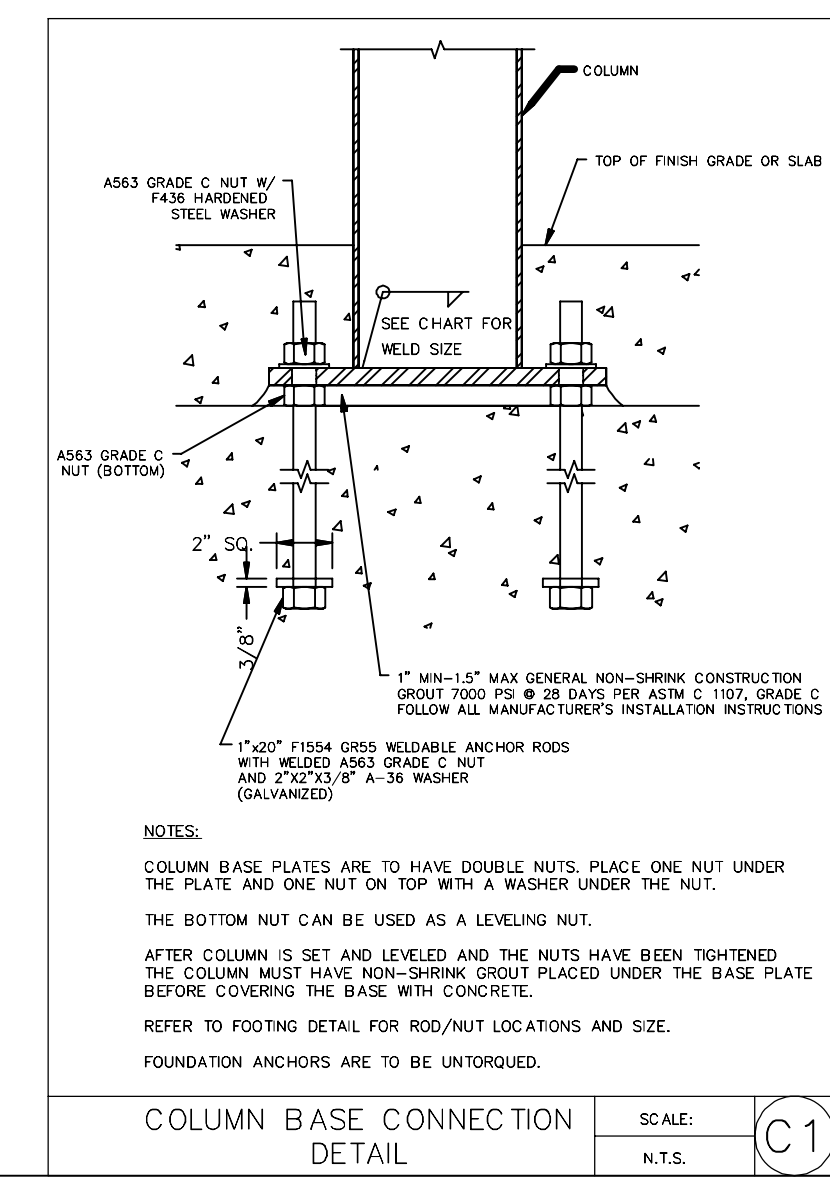
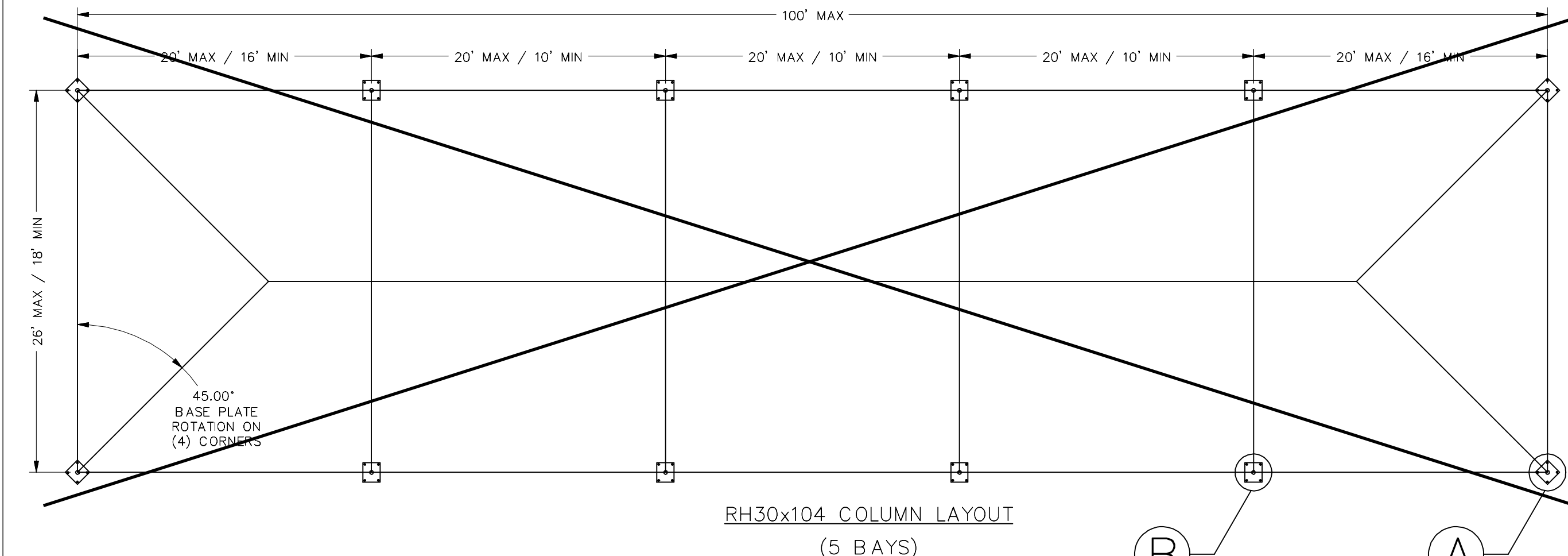
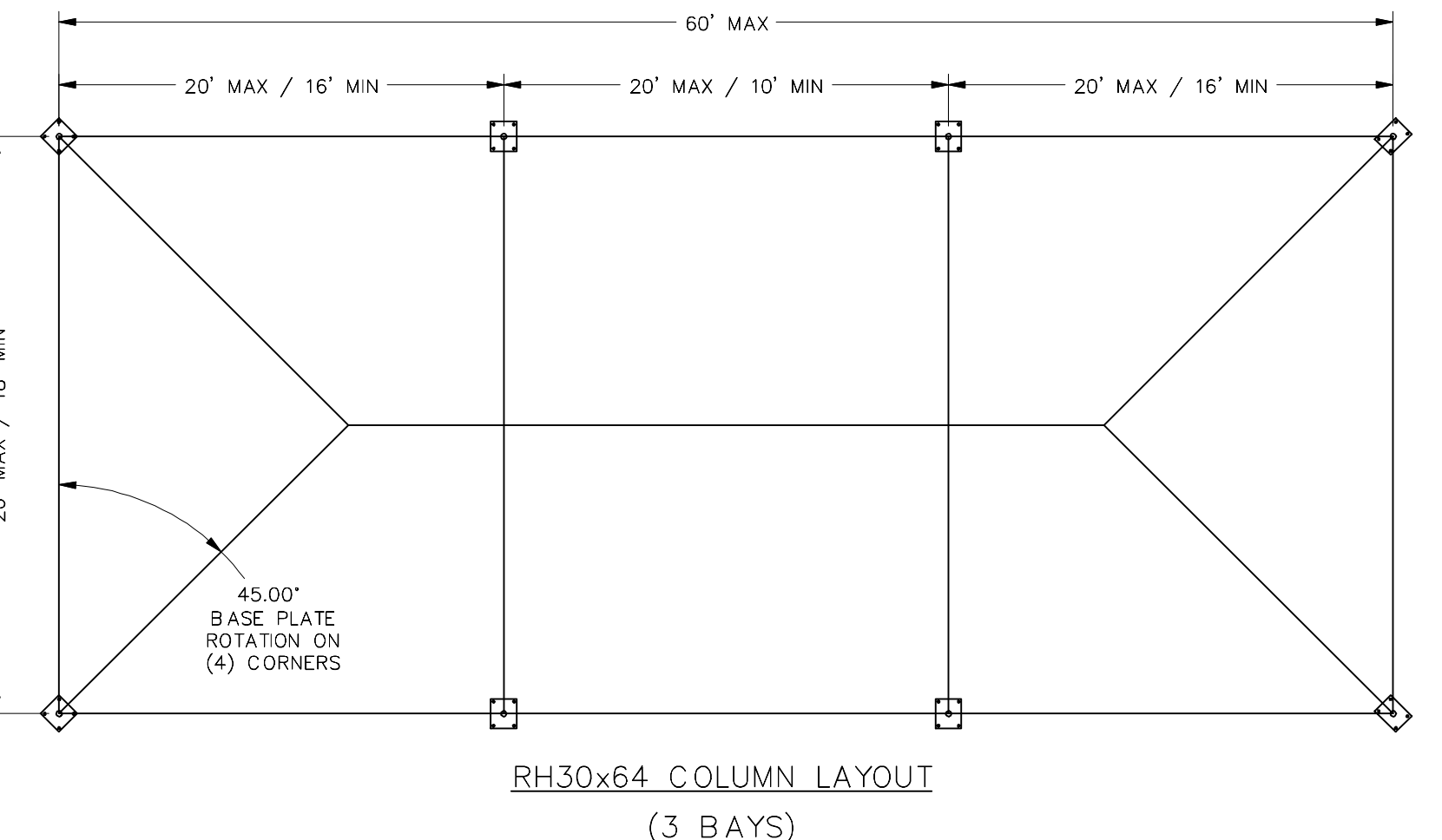
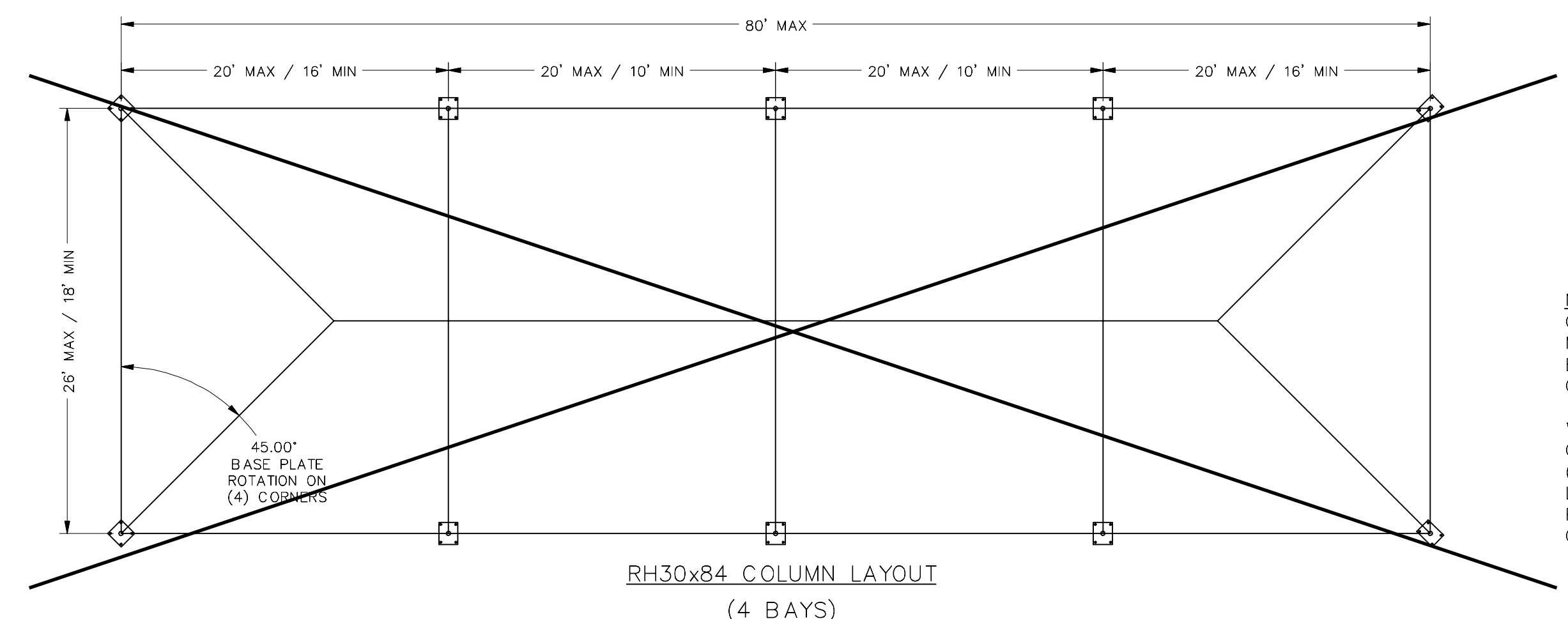
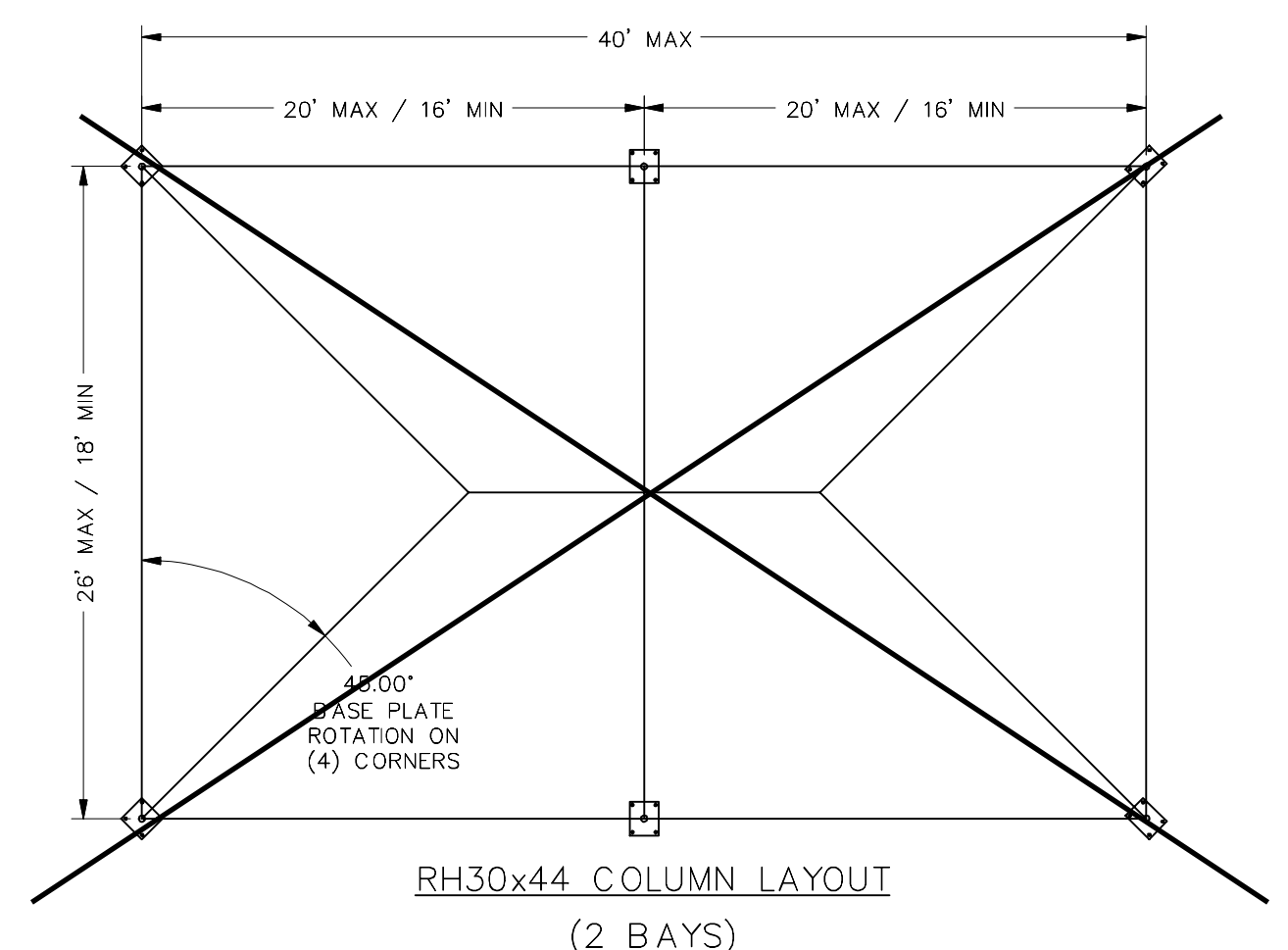
DSA 103



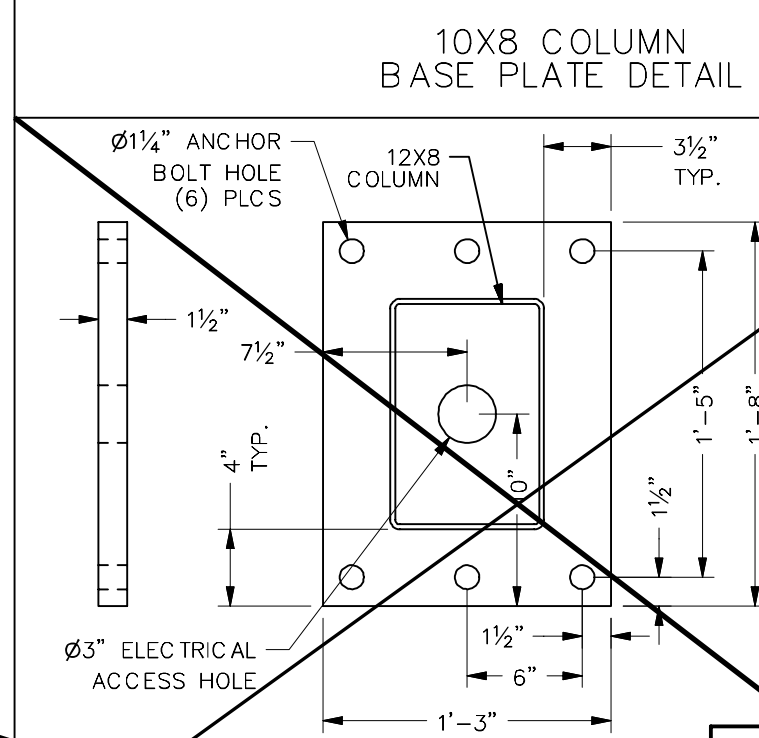
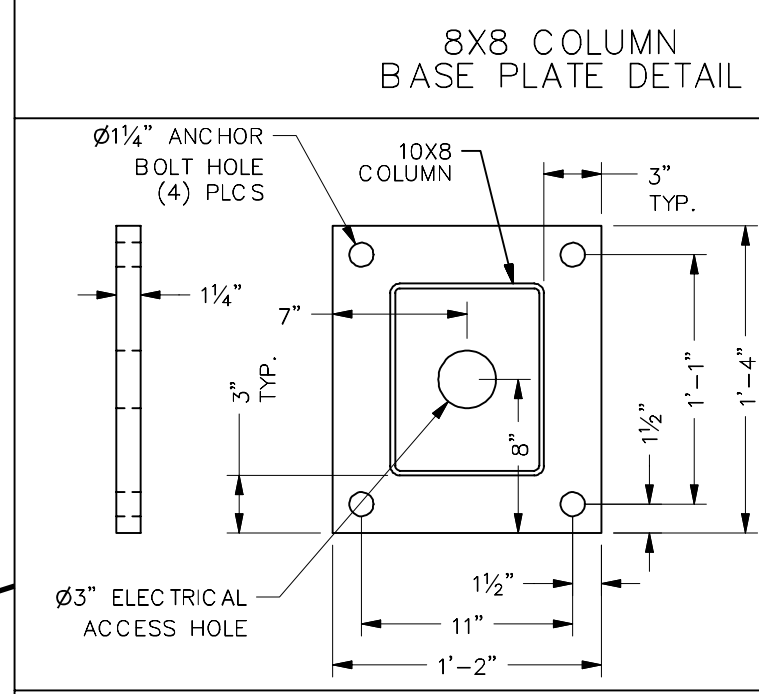
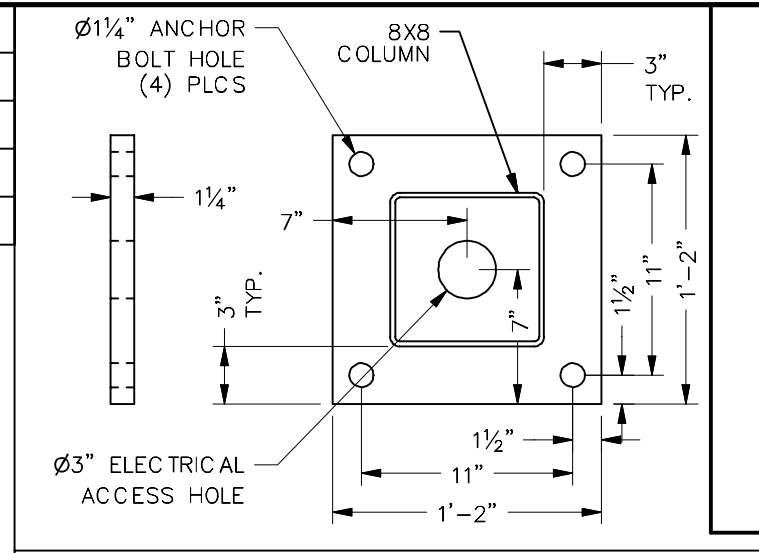
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 800.748.0985
 616.396.0944 FX

LS1.1

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



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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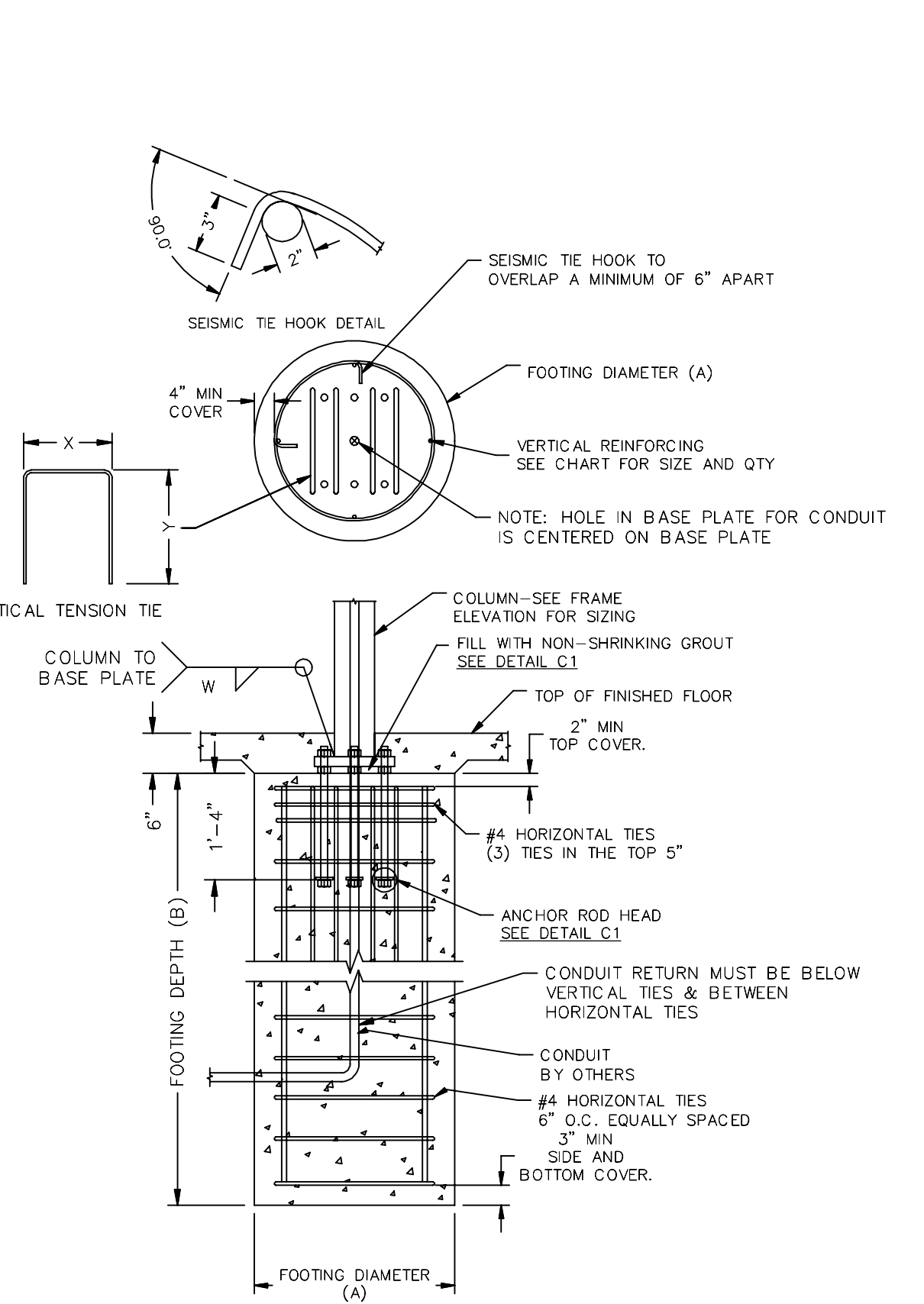
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 ANGELO D. FORNARI
 STATE OF CALIFORNIA
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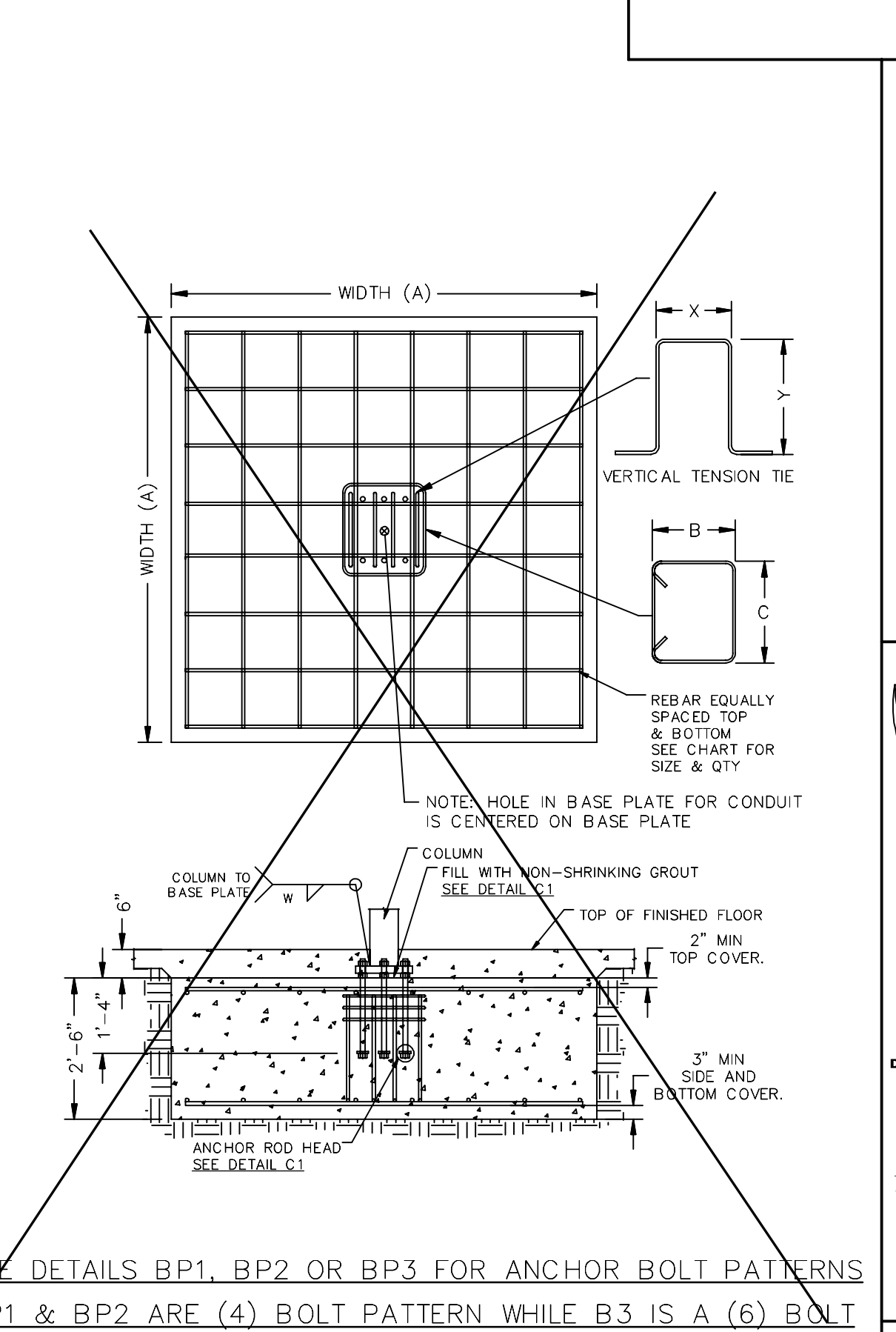
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30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Weld
Soil Class 5 - 1500 psf Bearing	24	114	6	1/4
Soil Class 4 - 2000 psf Bearing	24	98	6	1/4
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4



RH30 - SPREAD				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Weld
Soil Class 5 - 1500 psf Bearing	24	114	6	1/4
Soil Class 4 - 2000 psf Bearing	24	98	6	1/4
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

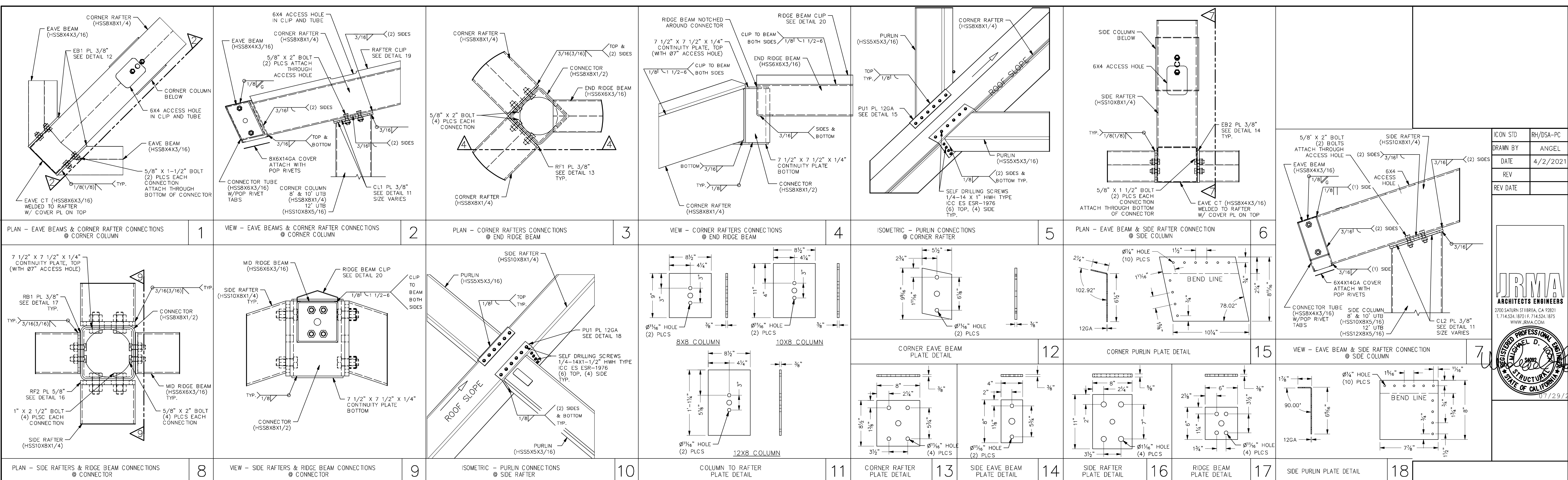
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 A separate project application for construction is required.

30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

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LS3.0

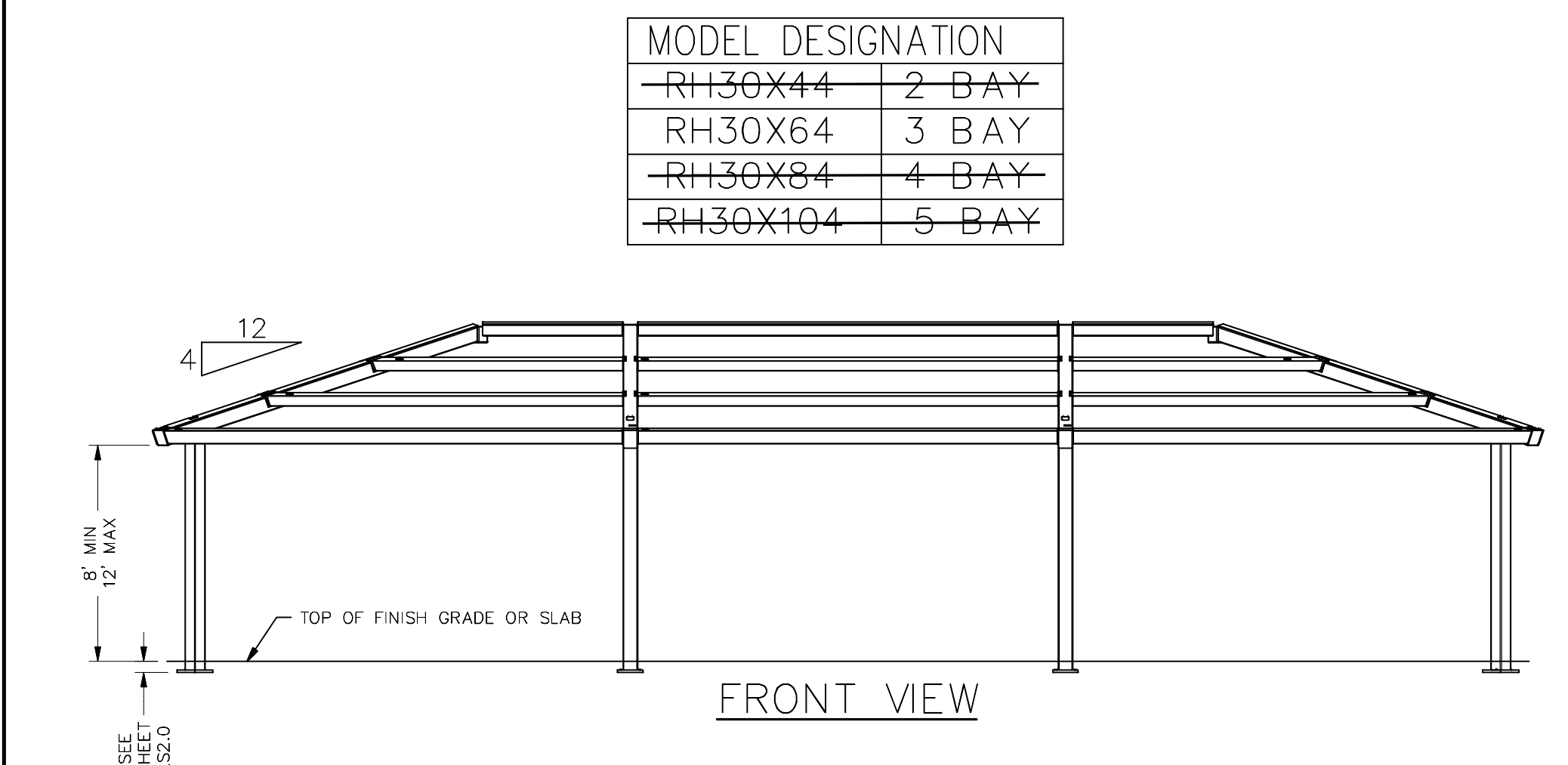
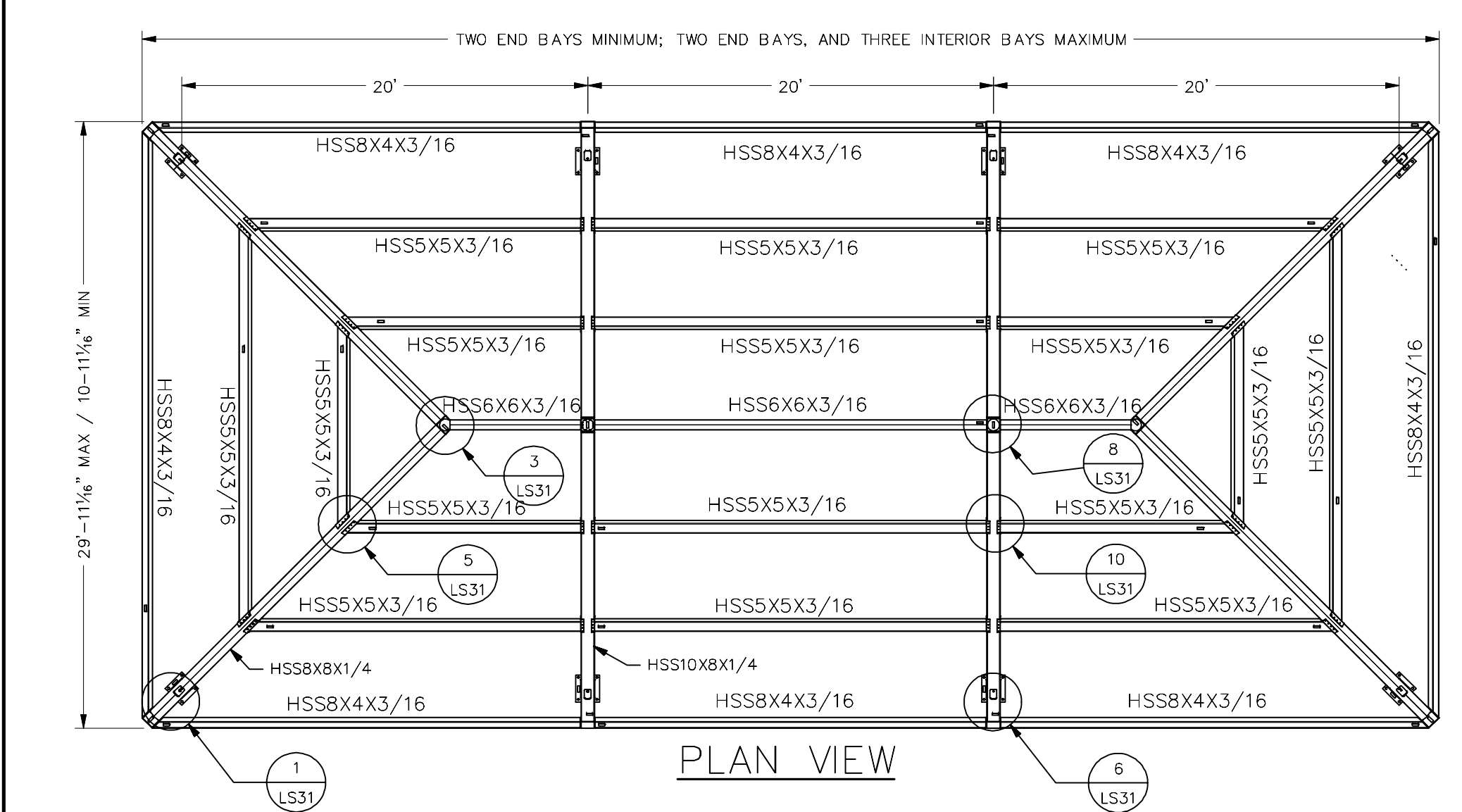
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REGISTERED PROFESSIONAL ENGINEER
ANGELO D. JOY
STATE OF CALIFORNIA
7/29/2021

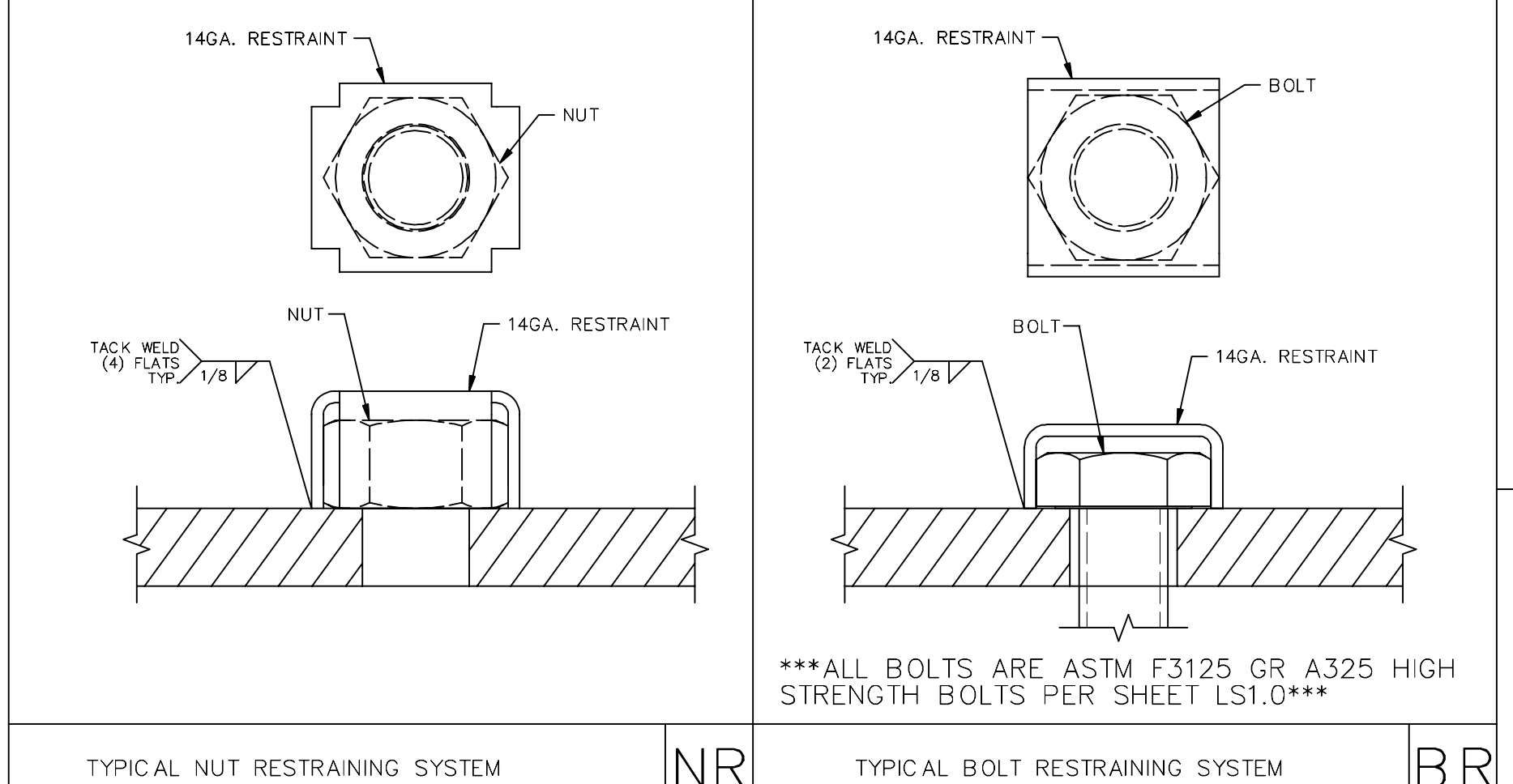


*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

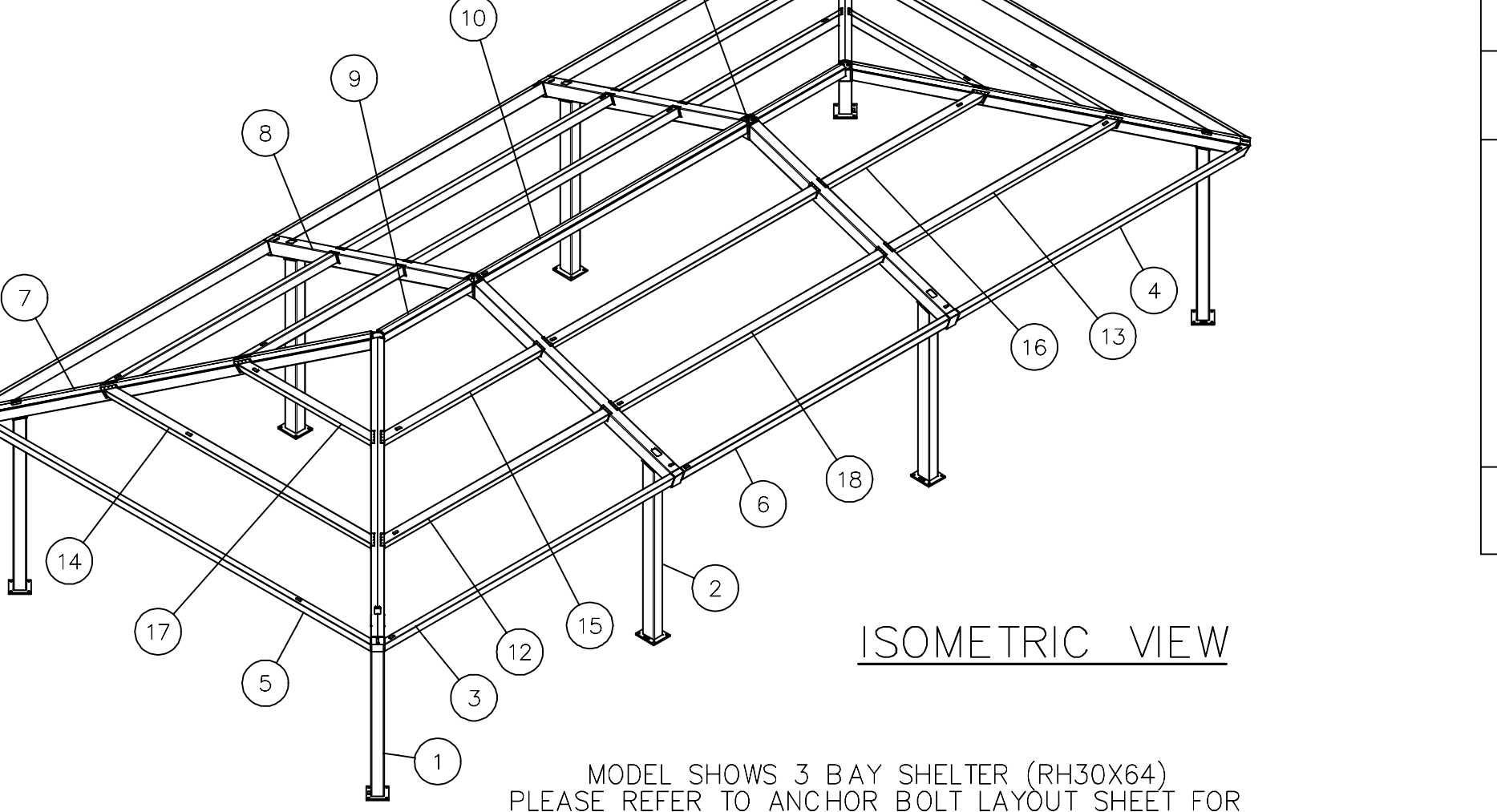
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE 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.

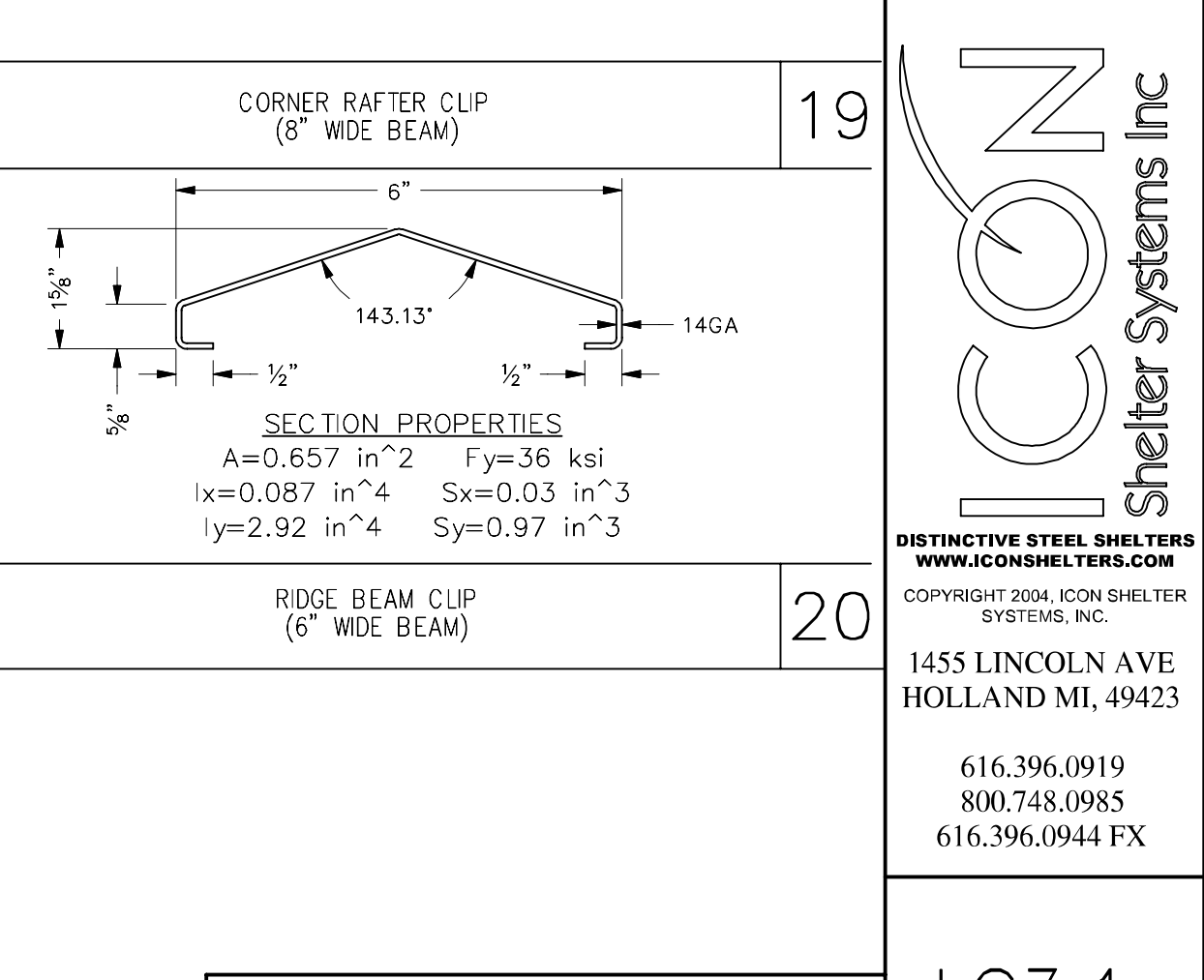
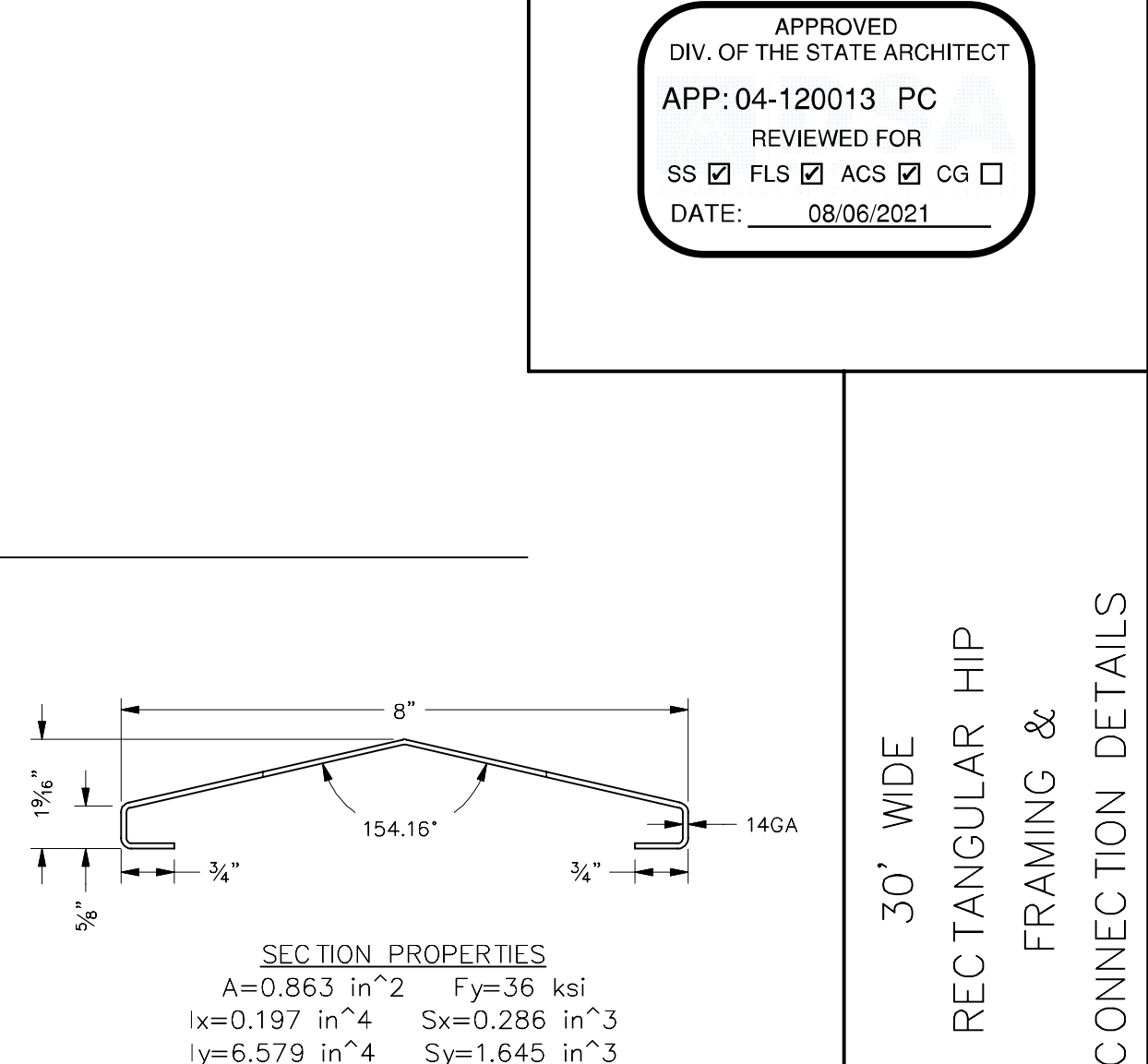
- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)



ALL BOLTS ARE ASTM F3125 GR A325 HIGH STRENGTH BOLTS PER SHEET L51.0



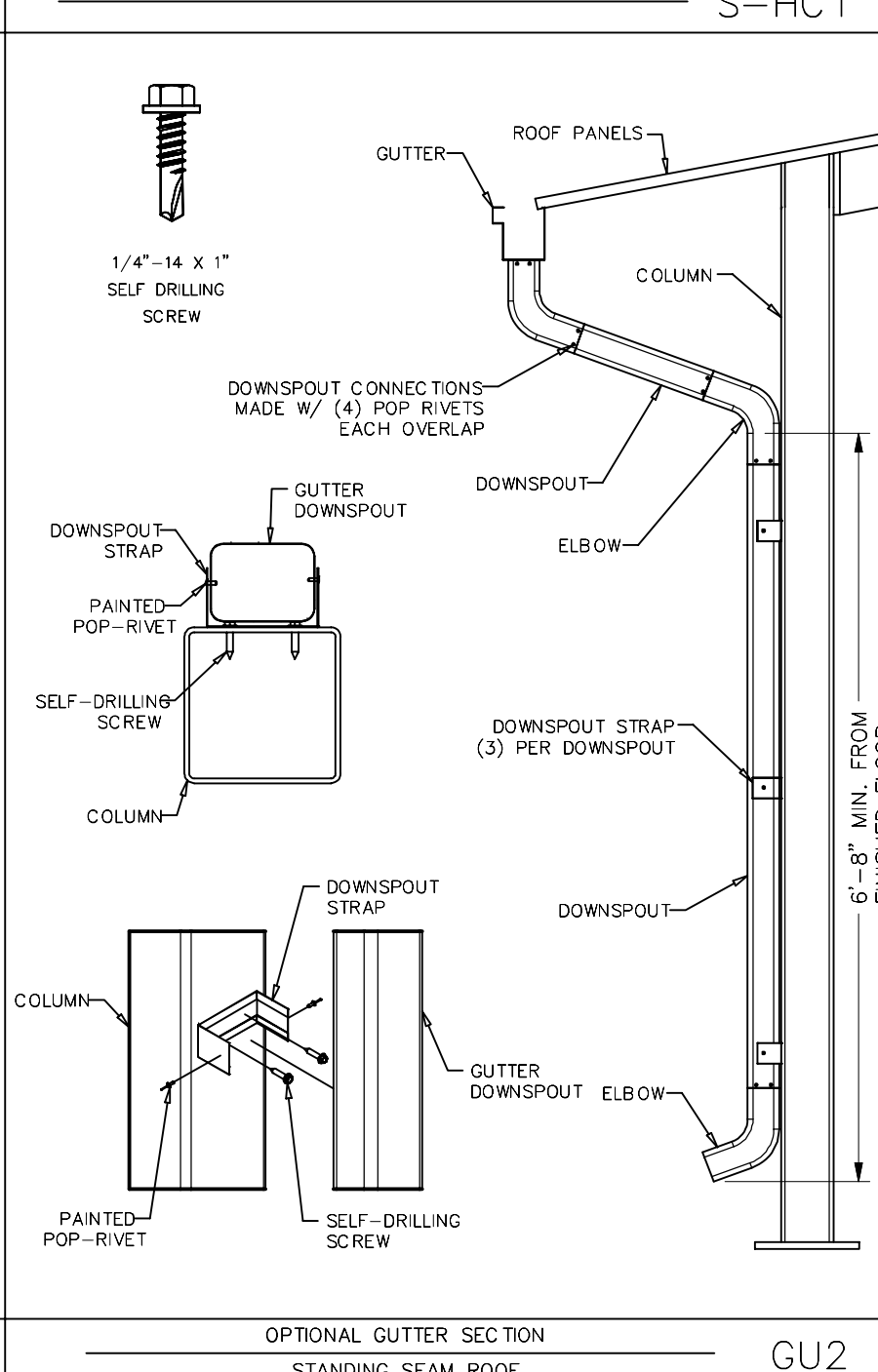
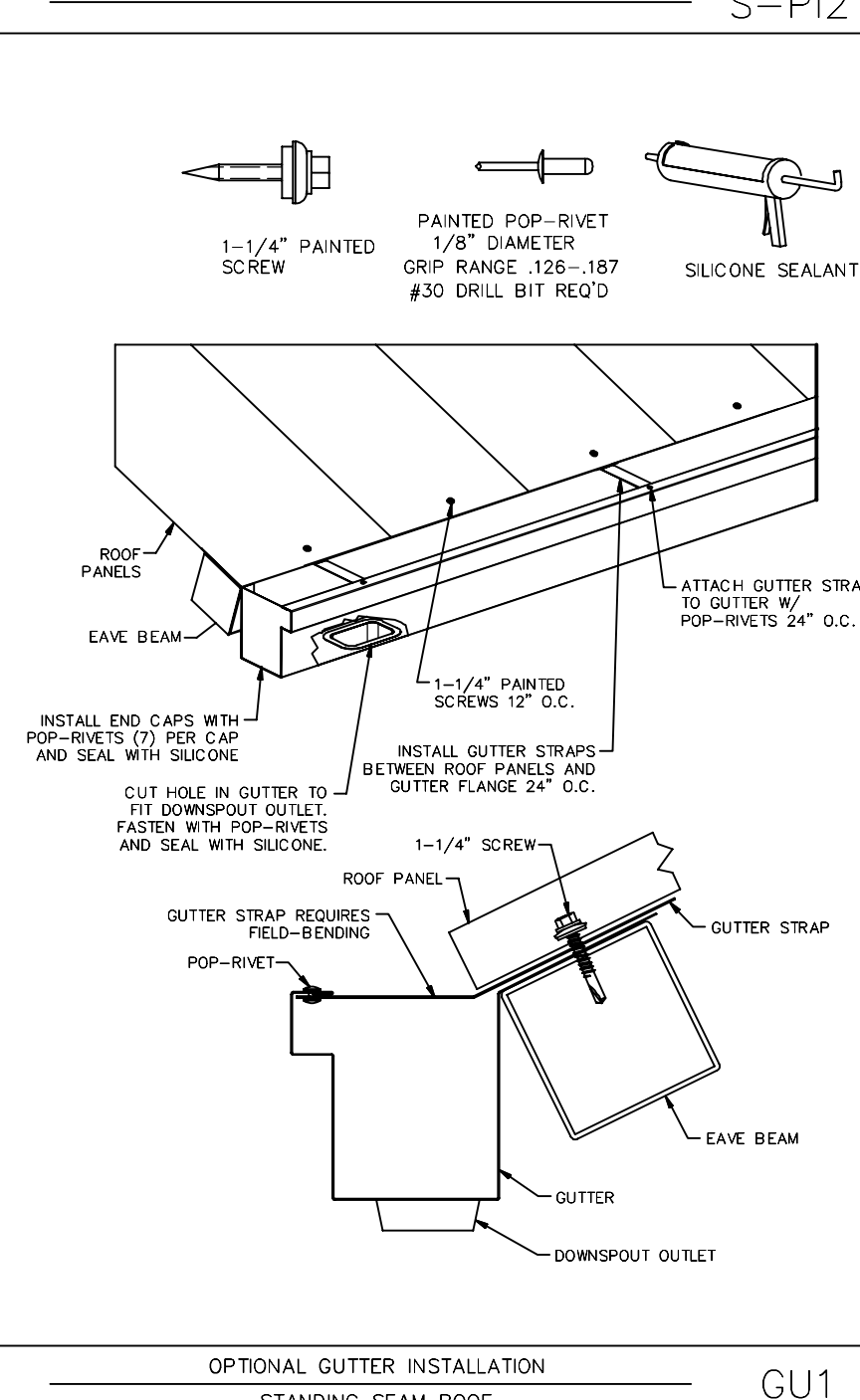
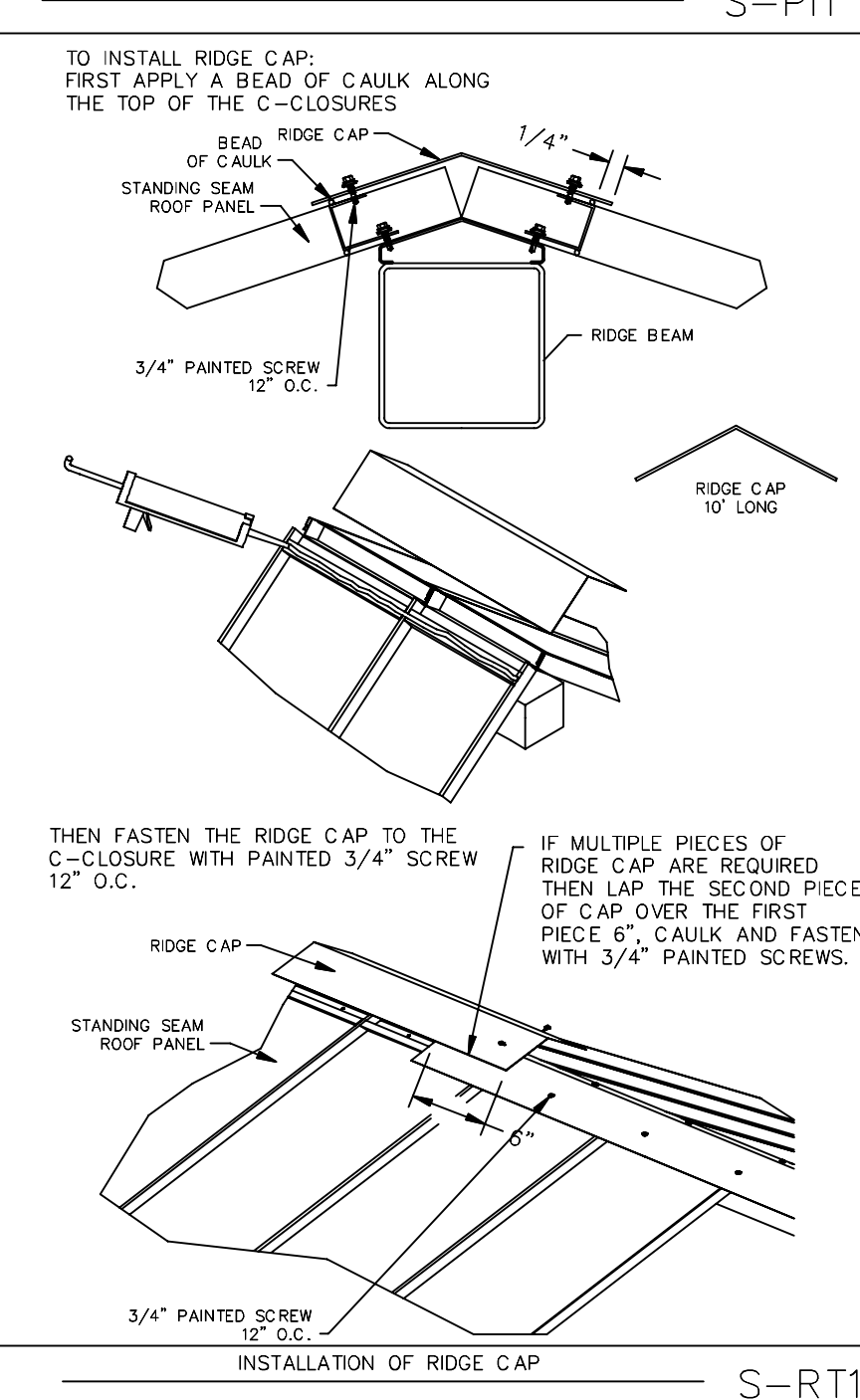
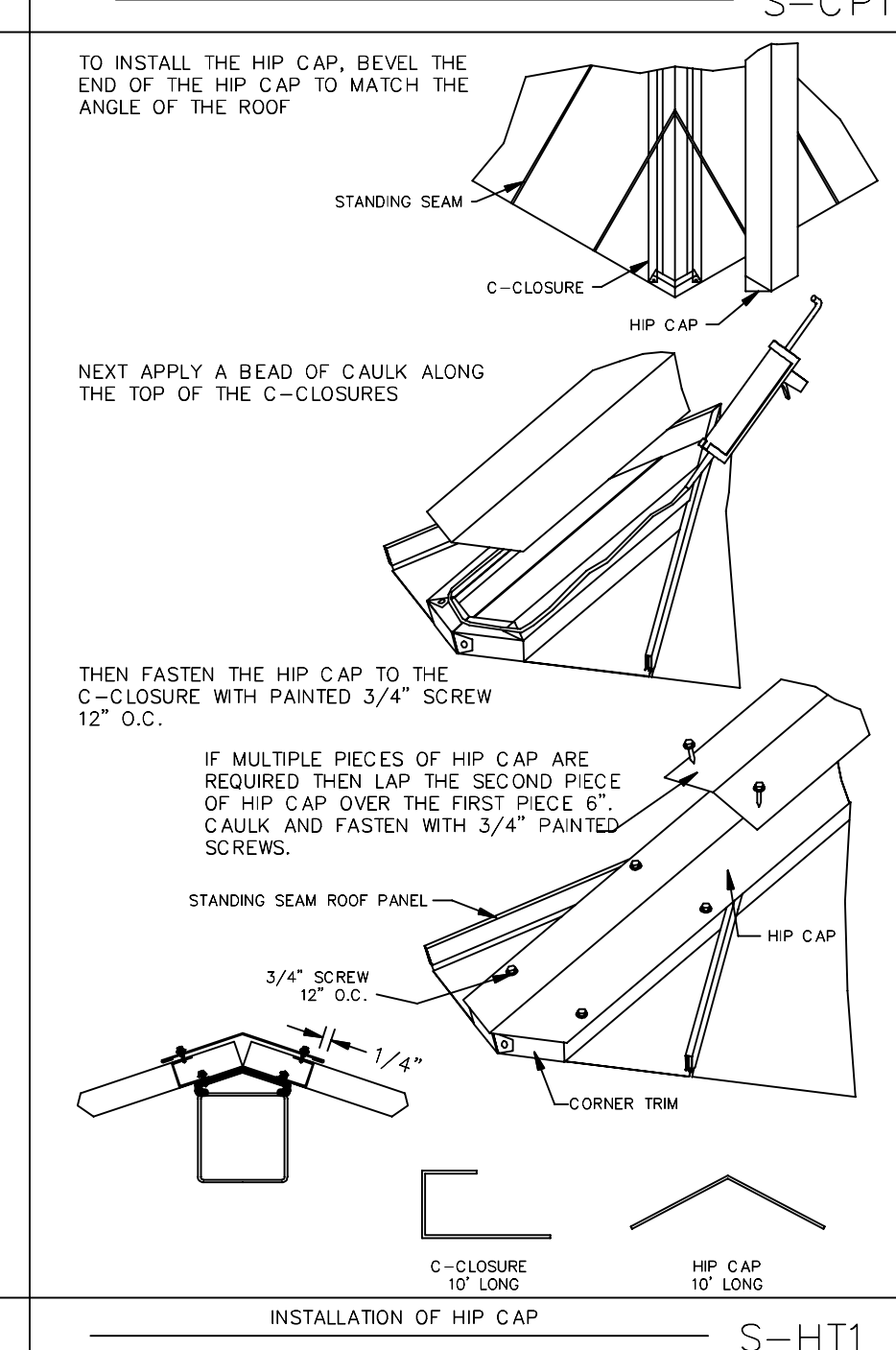
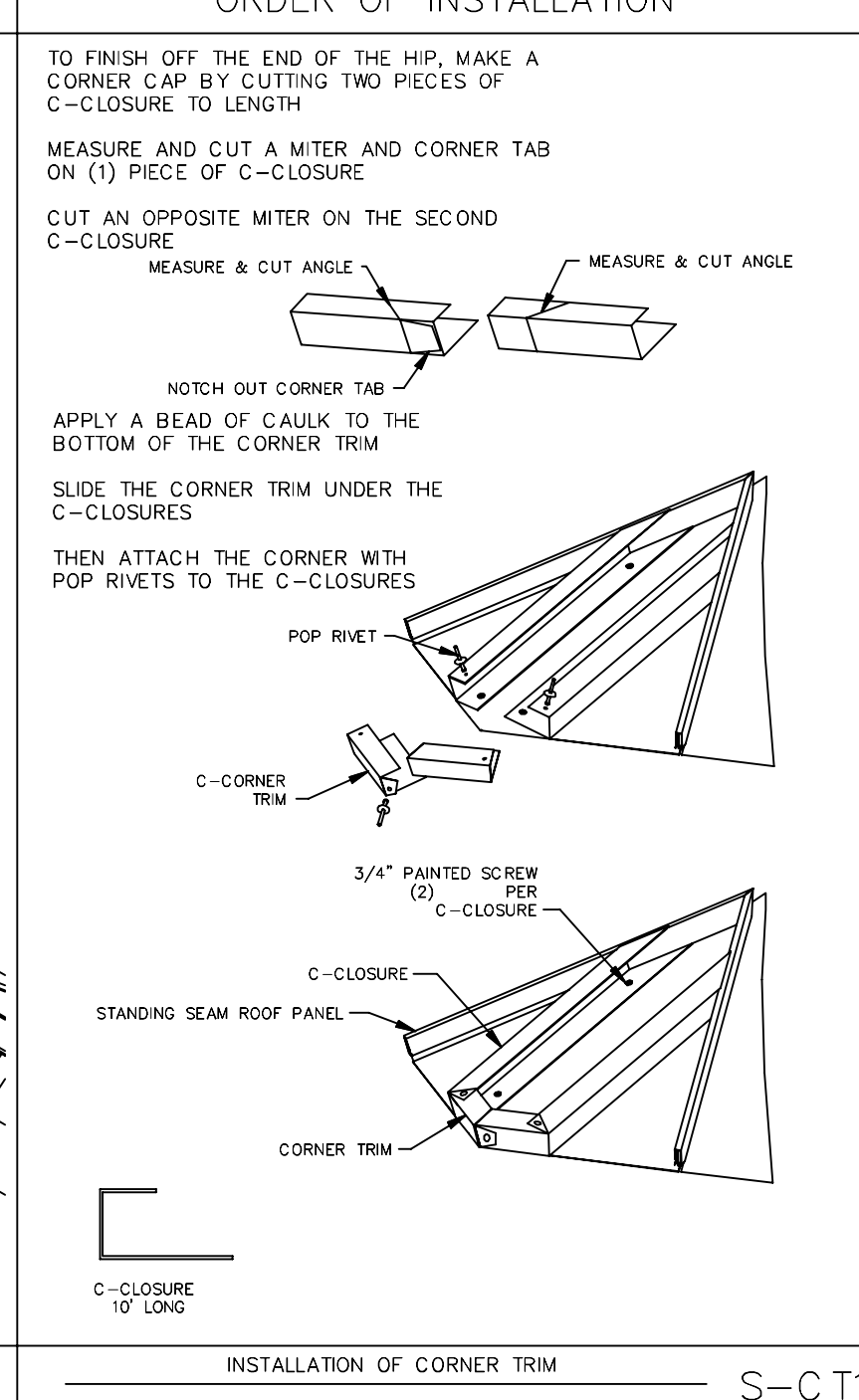
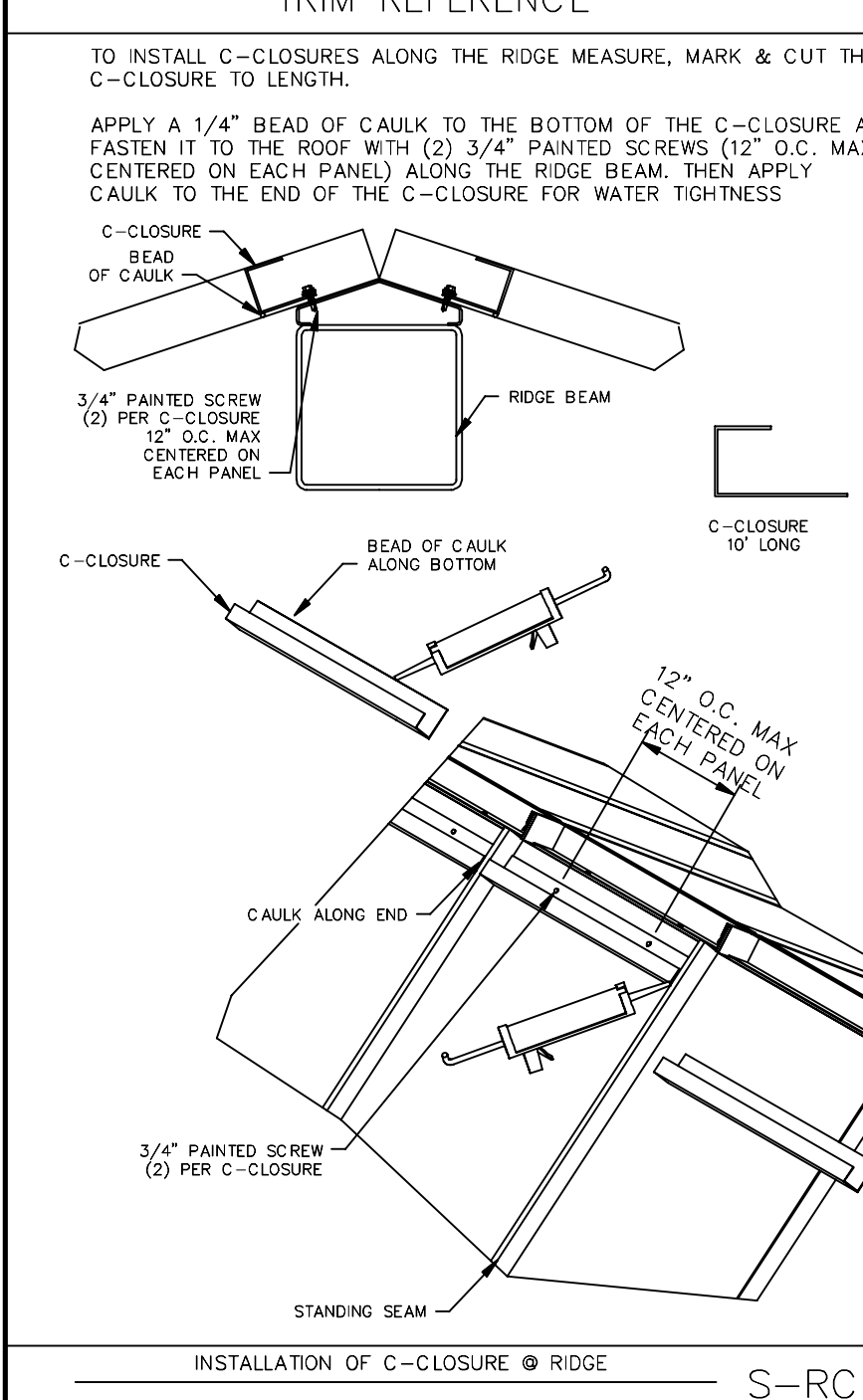
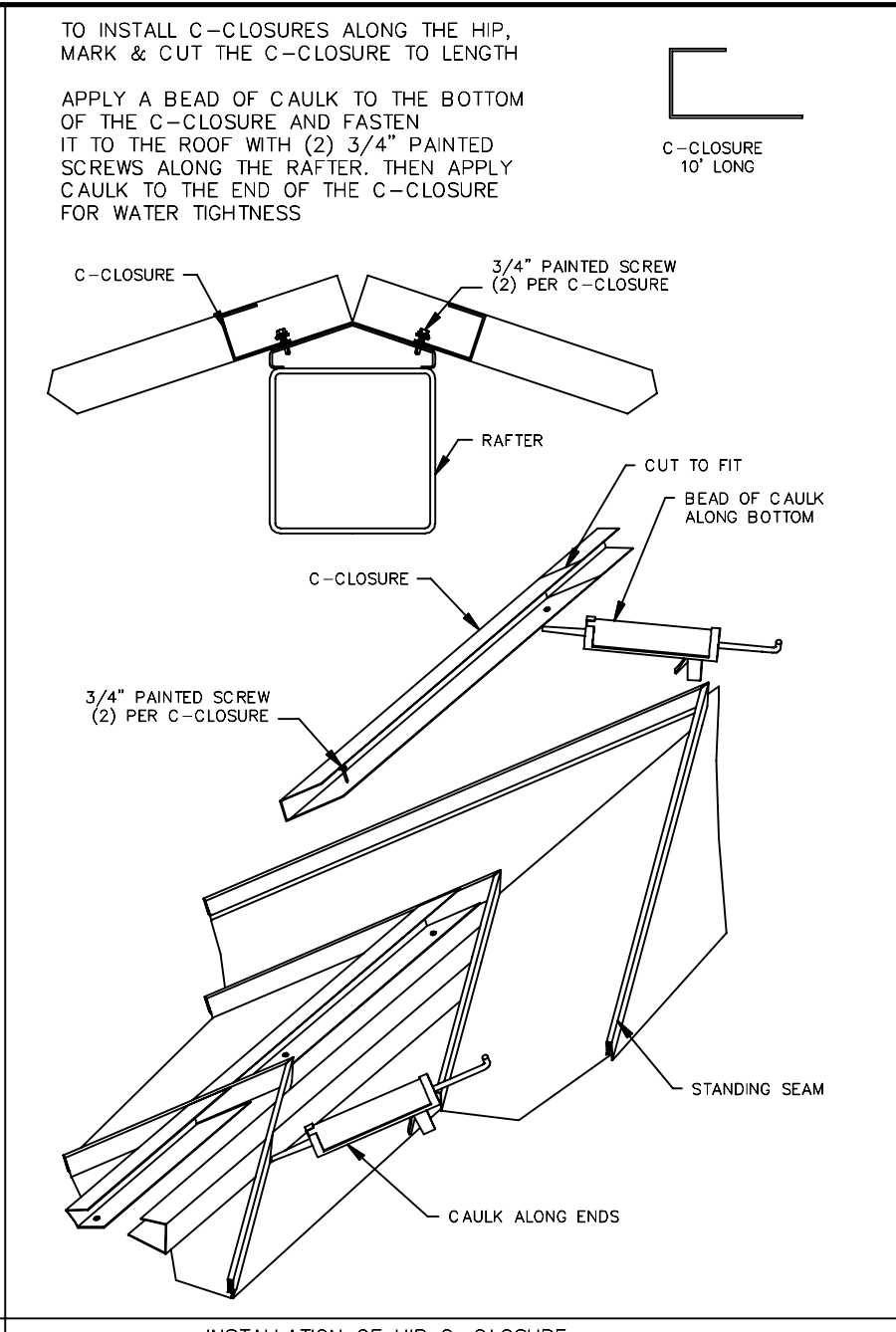
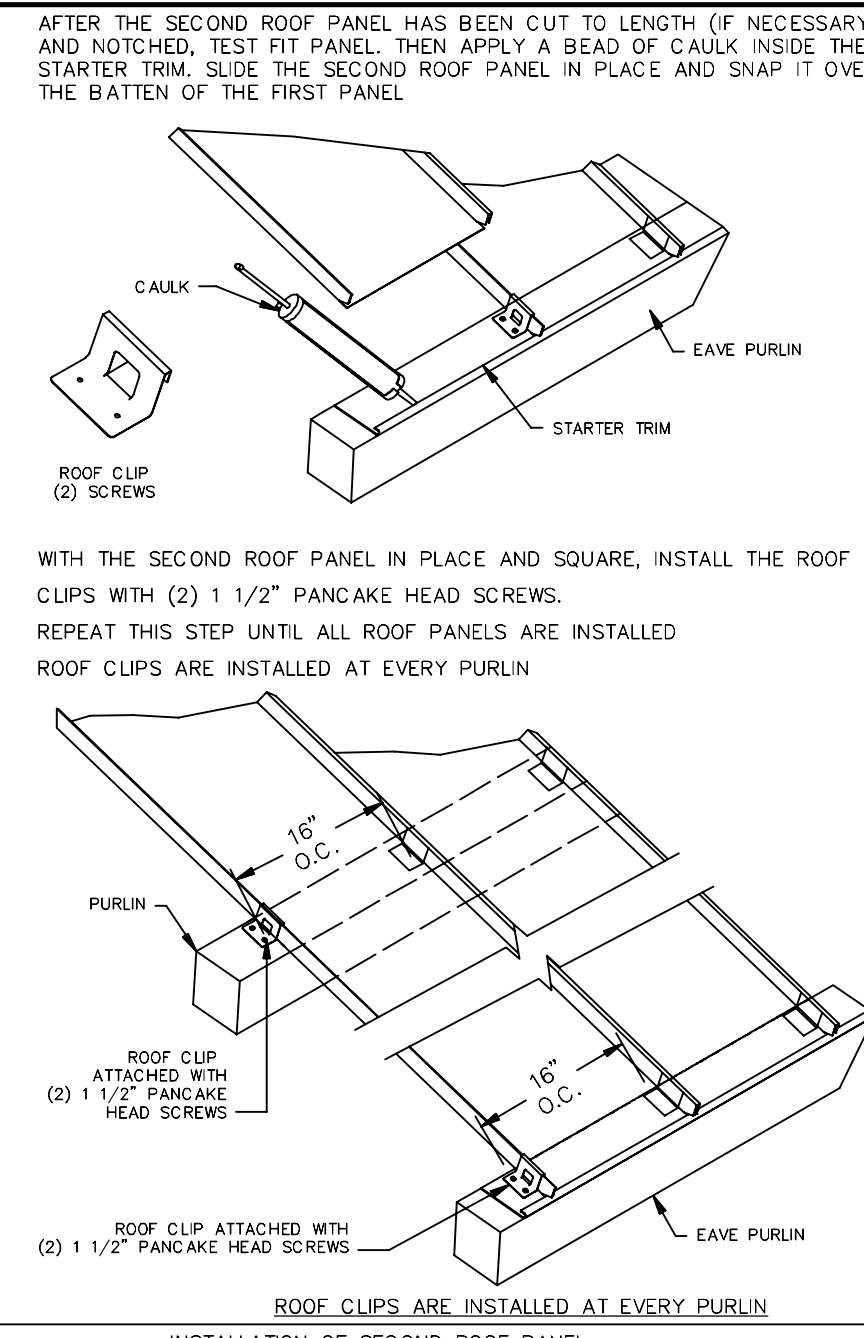
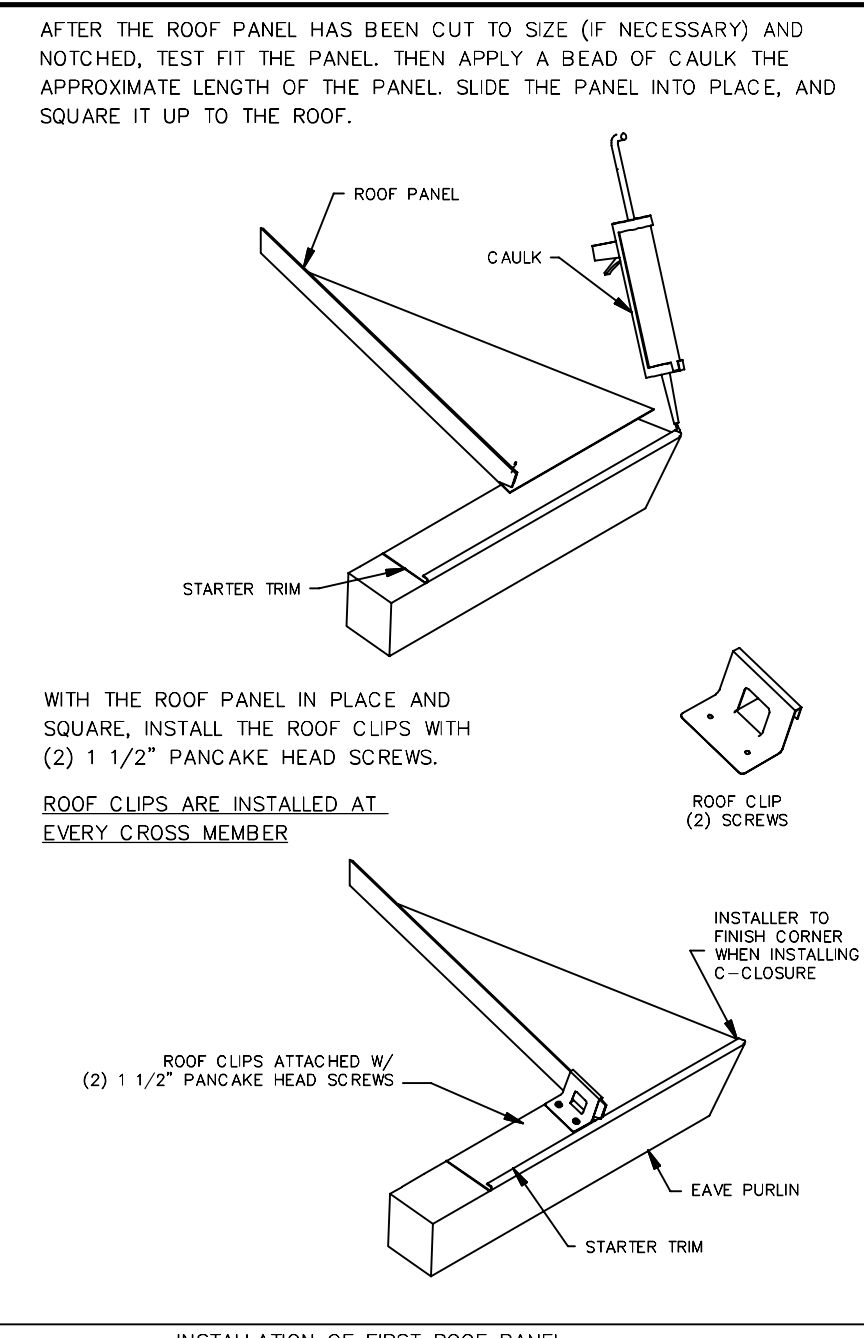
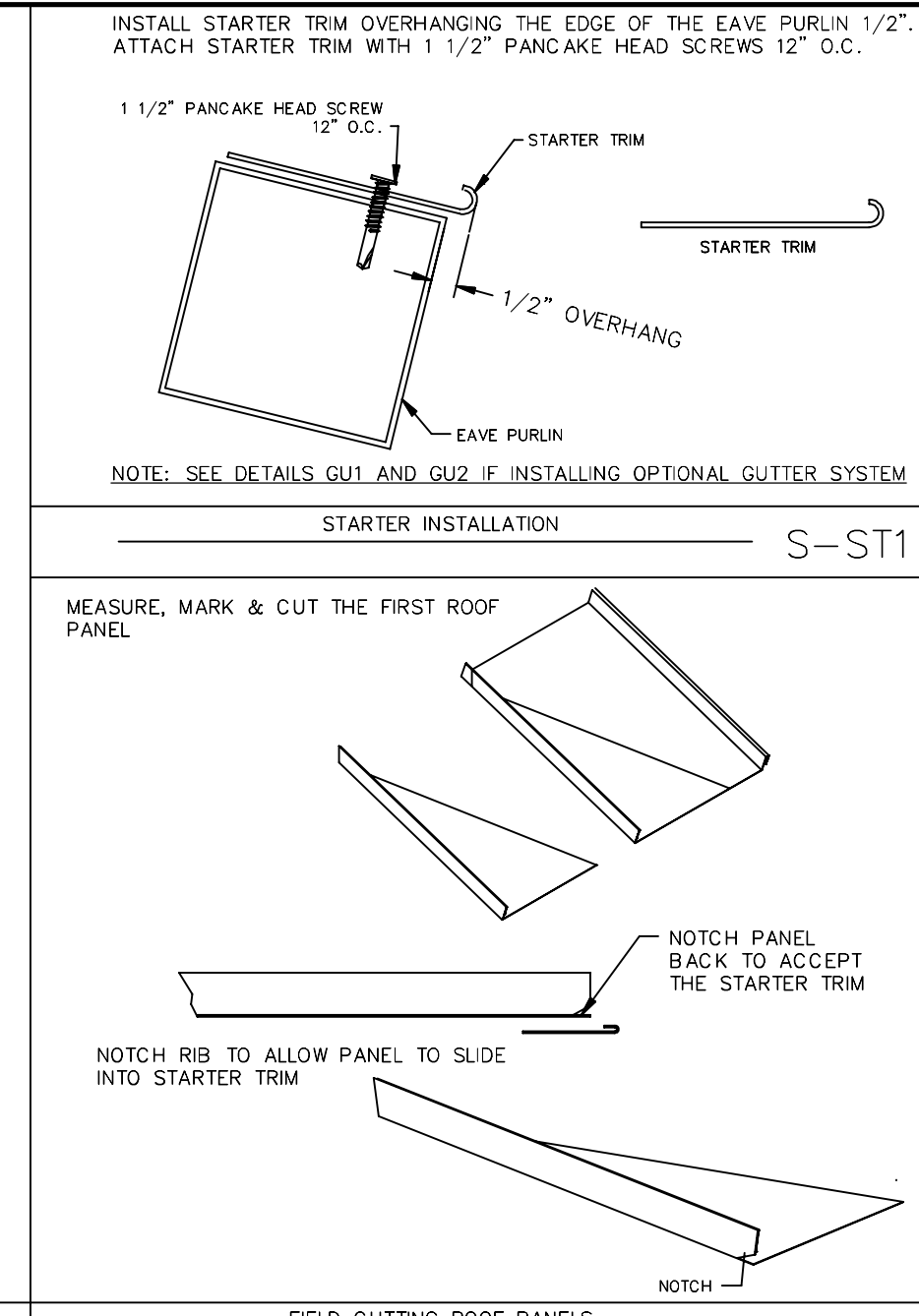
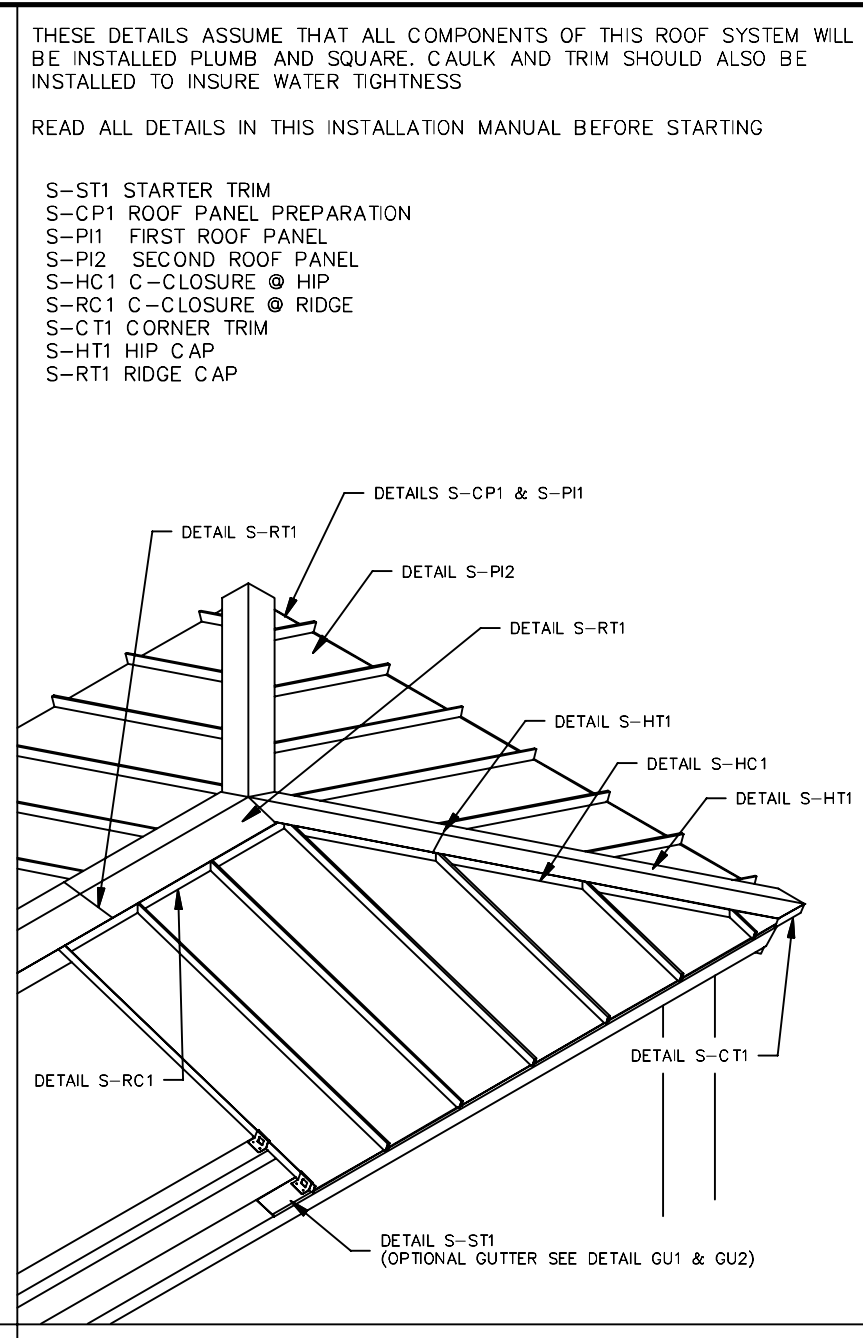
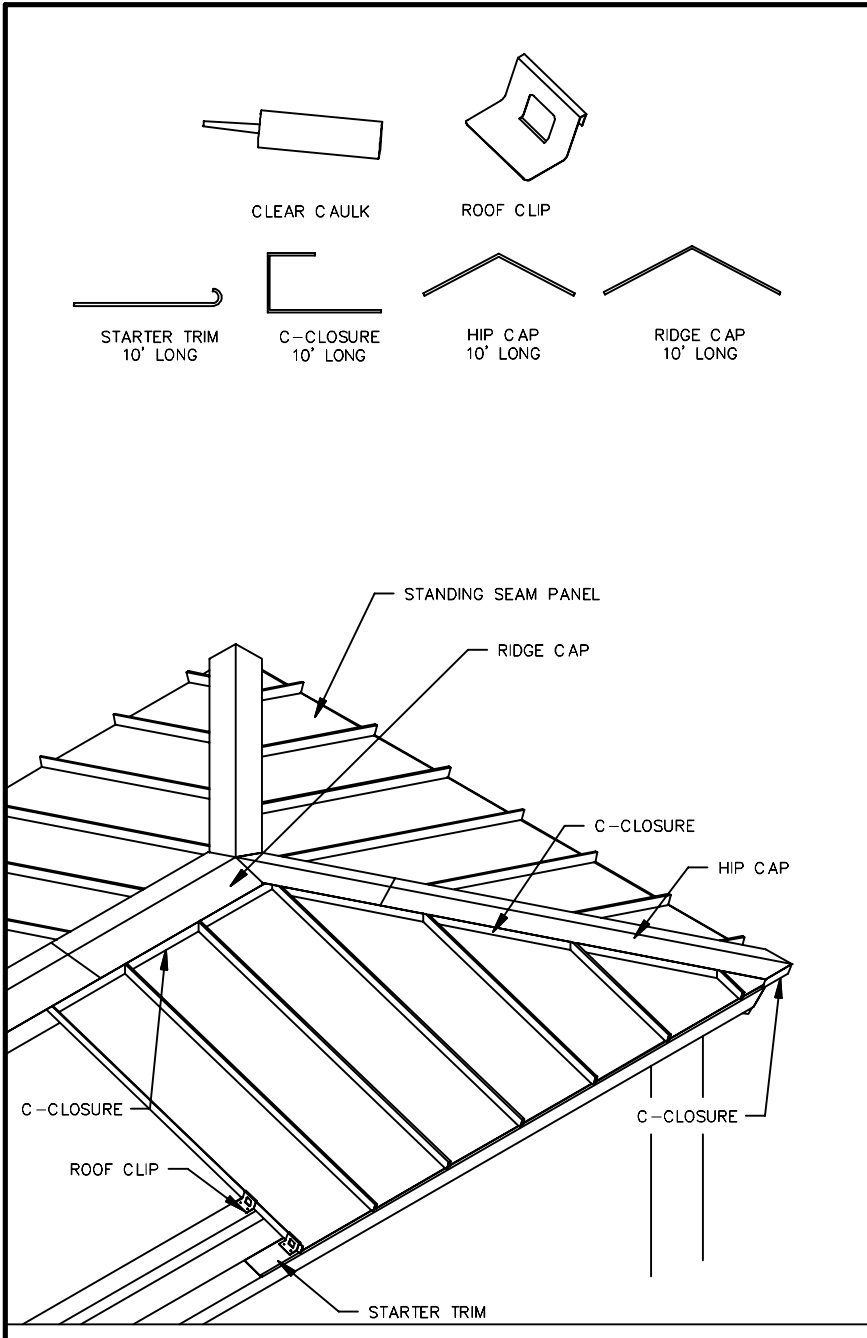
MODEL SHOWS 3 BAY SHELTER (RH30X64)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED



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A separate project application for construction is required.

LS3.1



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, DESIGNS 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.

16" COVER WIDTH

24 go.

MEYER LOK STANDING SEAM PANEL SECTION

F_y = 50 ksi F_u = 65 ksi

ICC ESL-1082

SECTION PROPERTIES (PER FT. OF WIDTH)

TOP IN COMPRESSION

I_x = 0.086 in⁴

S_e = 0.0561 in³

M_g = 1.68 in-kips

BOTTOM IN COMPRESSION

I_x = 0.040 in⁴

S_e = 0.0479 in³

M_g = 1.248 in-kips

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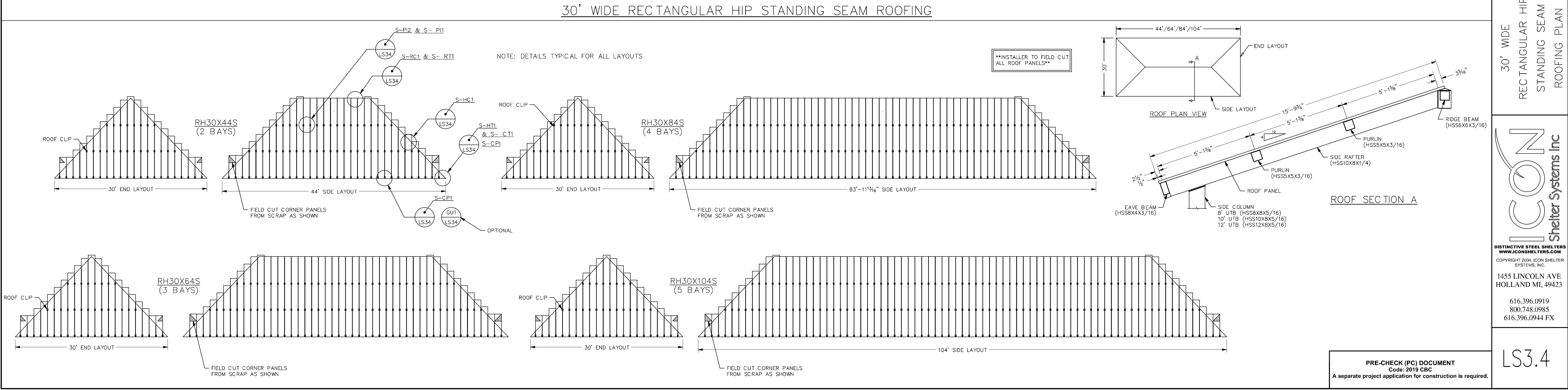
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T. 714.524.8701 F. 714.524.1875

WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

07/29/2021

30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING PLAN

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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/CUTOOUT 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.

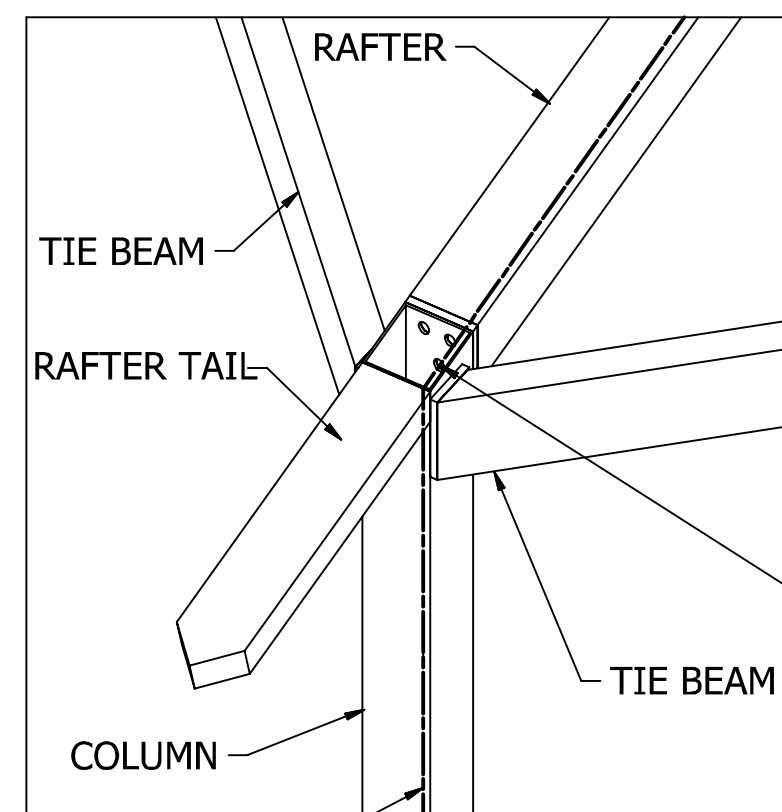
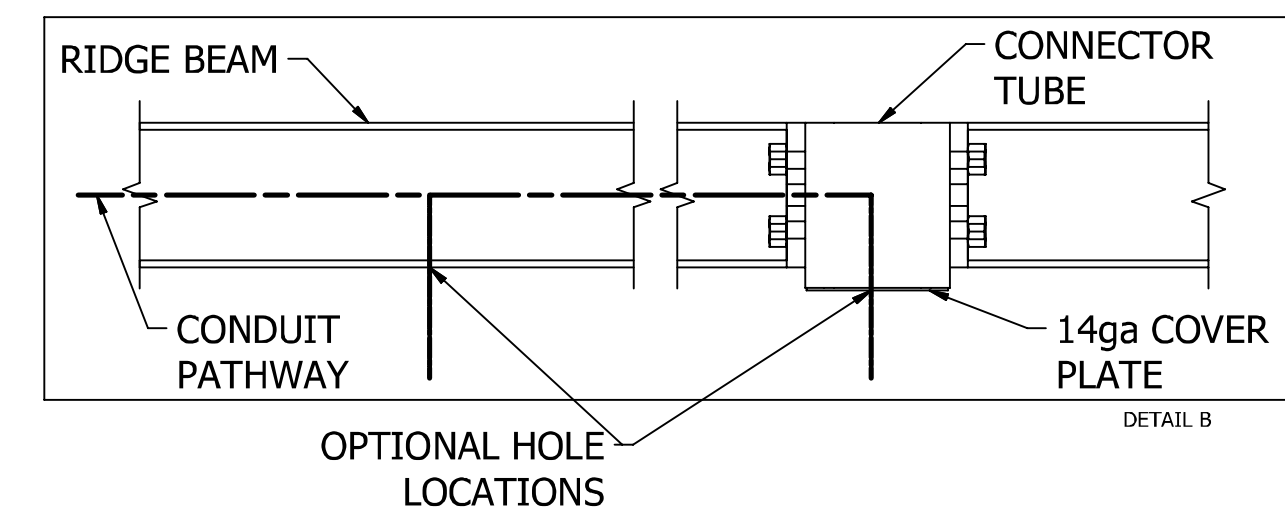
PRELIMINARY: NOT FOR CONSTRUCTION

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

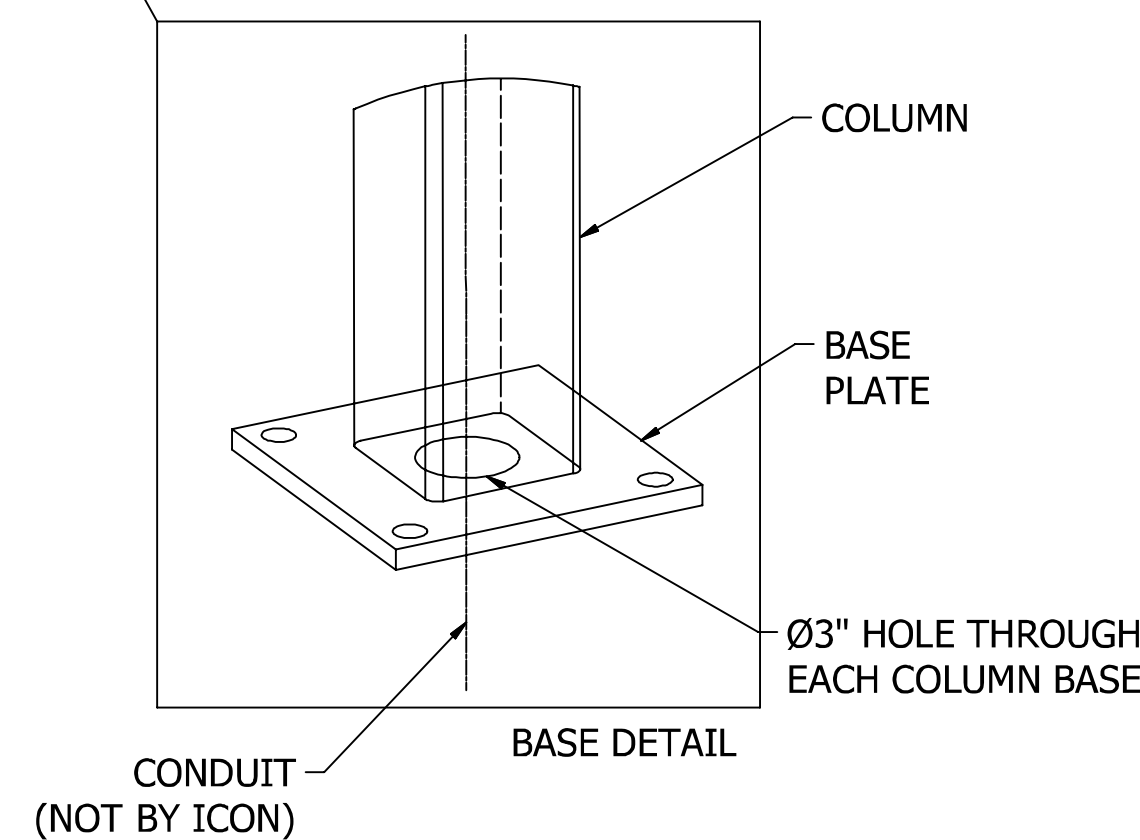
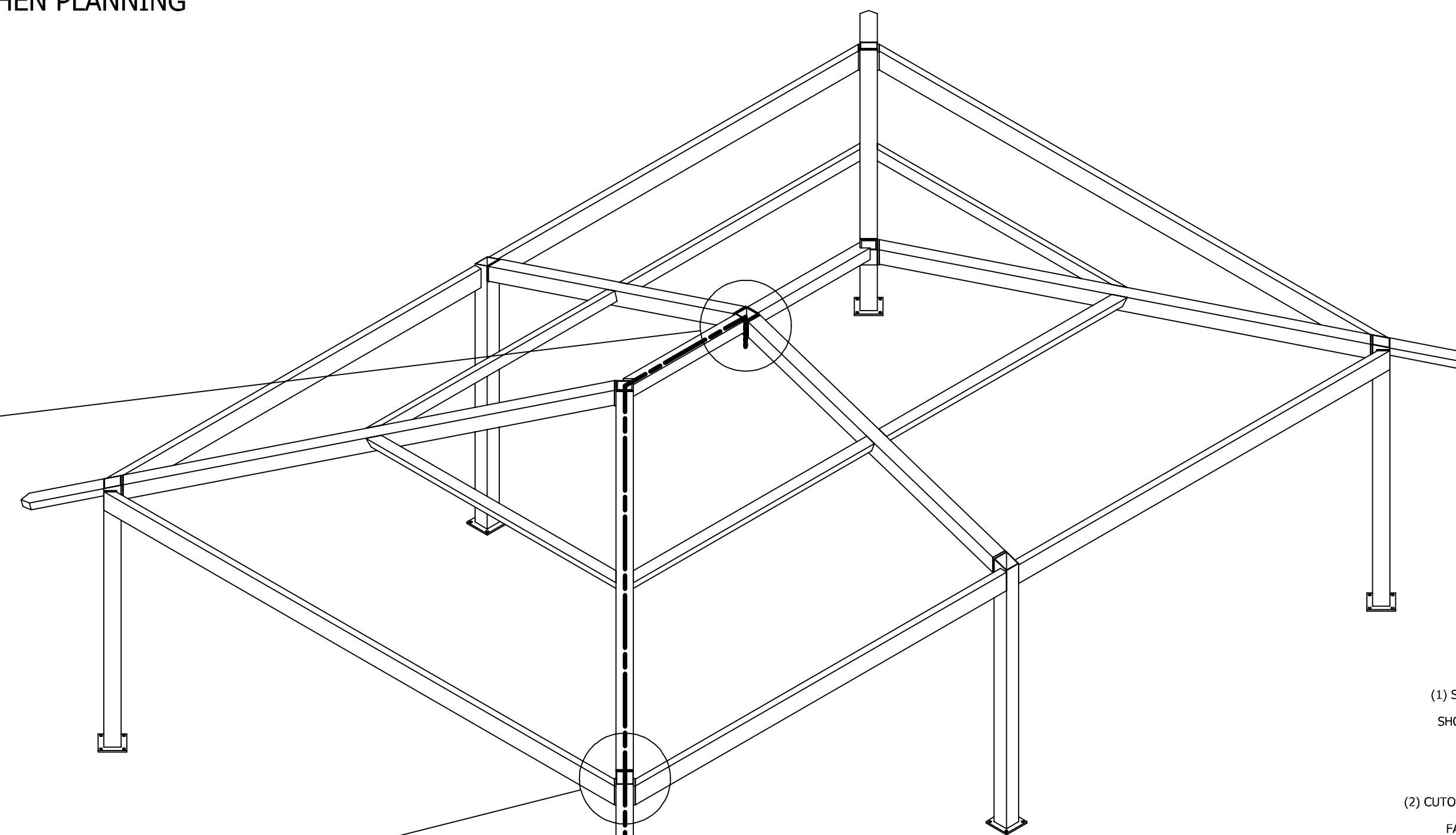
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



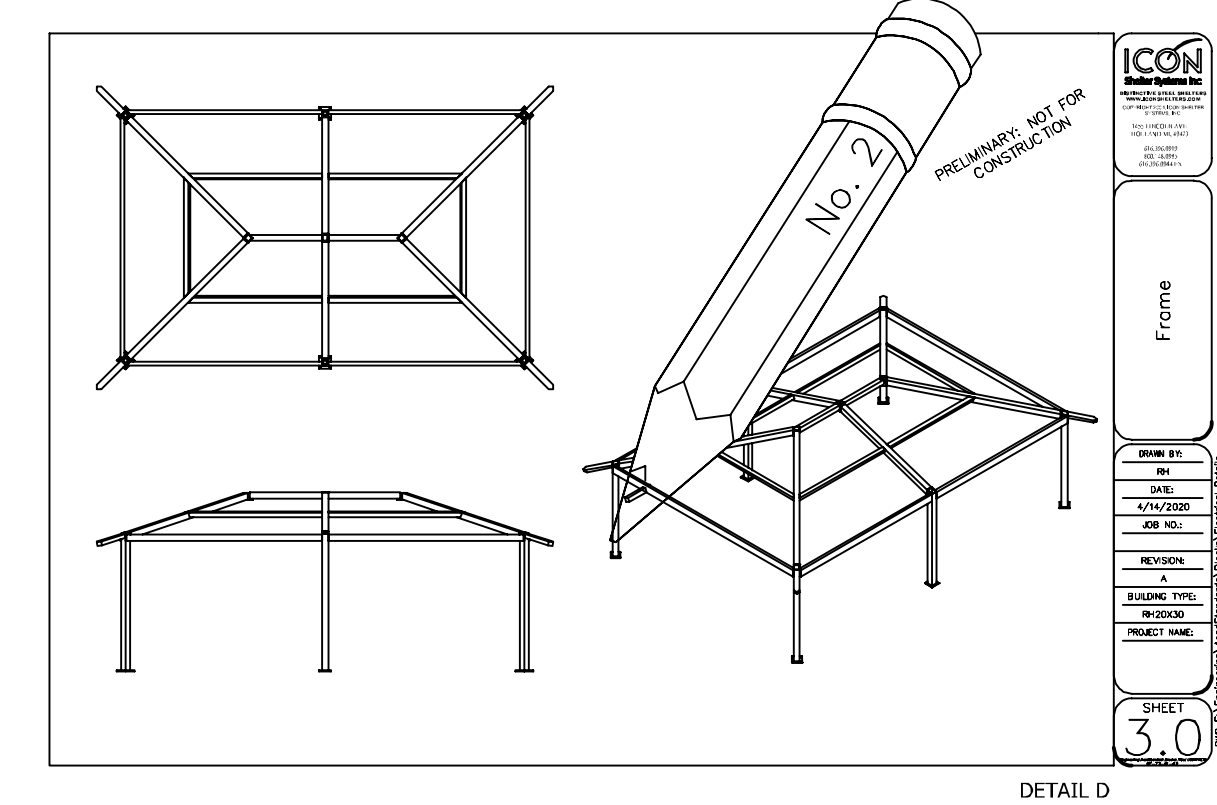
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 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.

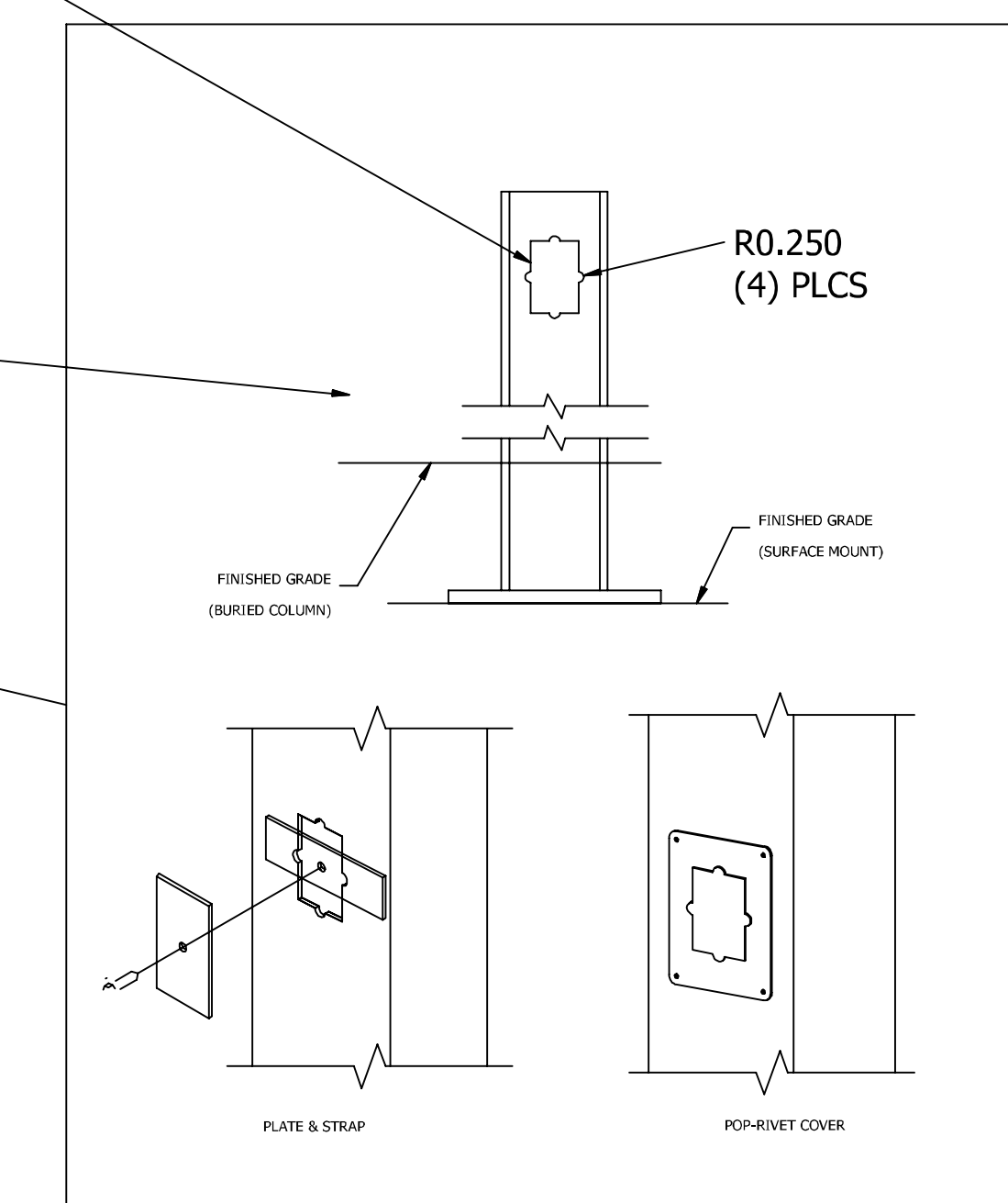


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



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

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

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST IRRISA, CA 92621
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
ANGELO D. JACOBINI
STATE OF CALIFORNIA
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

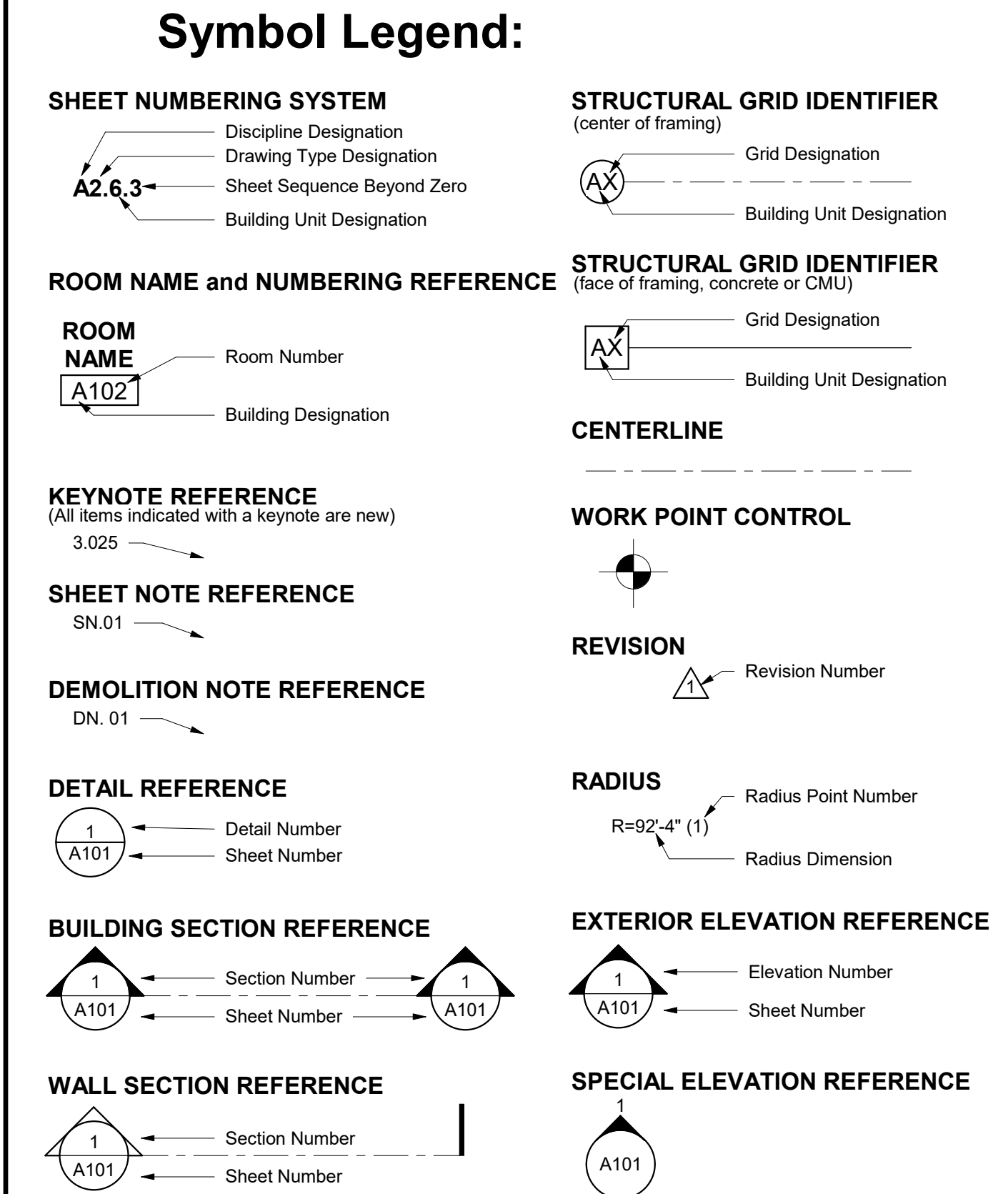
ICON
Shelter Systems Inc

DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

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

LS5.0

Abbreviations:		
A	Angle	F.R.P.
ACOUS.	Acoustical	FLASH
AD	Area Drain	FT.
A.V.	Audio Visual	FTQ.
AUTO.	Automatic	FND
BM	Beam	FURR.
BLK	Block	GALV.
BLKG.	Blocking	G.I.
BO.	Board	G.S.M.
BOT	Bottom	G.W.H.
BULDG.	Building	GA.
CAB.	Cabinet	GLU/LAM./G.L.B.
CATV	Cable T.V.	GR.
C.I.	Cast Iron	GYP.
CLKB.	Catch Basin	GYP.BD.
CLKG.	Caulking	HDWR.
CNTR./CTR.	Center	HDWD.
CER.	Ceramic	HDR.
CB	Chain Link	HVAC.
CB	Chalkboard	H.JHT.
CL	Classroom	H.M.
CLR	Clear	H.M.
C.W.	Cold Water	HORIZ. HORIZ.
COL.	Column	H.R.
CONC.	Concrete	HR.
C.M.U.	Concrete Masonry Unit	IN.
CONN.	Connection	INCH.
CONST.	Construction	INFO.
C.J.	Construction Joint	INSUL.
CONT.	Continuous	INT.
CONTR.	Contractor	INV.
CORR.	Corrosion	JAN.
C.M.P.	Corrugated Metal Pipe	JOIST
C.Y.	Cubic Yard	JST.
CUST.	Custodian	KB.
D.	Deep/Depth	KIT.
DET / DTL.	Detail	KL.
DIAG.	Diagonal	LAM.
DIA / Ø	Diameter	LAV.
DIM.	Dimension	L.T.WT.
DIM PT.	Dimension Point	L.F.
DIS.	Disable/Inaccessible	M.B.
DW.	Dishwasher	M.H.
DN.	Down	MFR.
DN.	Door	M.O.
DBL.	Double	MATL.
DN.	Down	M.O.
DN.	Downspout	MATL.
D.I.	Drain Inlet	M.AX.
DWG.	Drawing	M.ECH.
D.F.	Drinking Fountain	MEN.
EA.	Each	MTB.
E.	East	MEZZ.
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.F.	Exhaust Fan	N.I.C.
(E)EXIST.	Existing	N.T.S.
EXP.	Expansion	NO.#
E.L.P.	Expansion Joint	W.D.W.
EXT.	Exterior	O.F.O.I.
F.O.C.	Face of Concrete/Curb	O.F.C.I.
F.O.F.	Face of Finish	Owner Furnish
F.O.S.	Face of Studs	Contractor Installed
FB.	Fiberglass	O.C.
F.R.L.	Fiberglass Reinforced Laminate	OPP.
		O.H.
		O.D.
		O.H.W.S.
		O.
		OA.
		P.D.F.
		PI.
		PR.
		PTN./PART.
		PEN.
		PERF.
		P.LAM.
		PL.
		P.V.
		PLYWD.
		PS.
		PRE-FAB.
		P.M.F.
		P.T./T.D.F.
		R.
		R.W.L.
		RDWD.
		REF.
		REINF.
		REQD.
		RET.
		R.D.
		RM.
		R.G.
		R.H.W.S.
		R.B.
		RUB.
		SECT.
		S.K.
		SHT.
		SH.
		S.M.
		S.M.S.
		S.V.
		SHR./SHWR.
		S.
		S.C.
		S.
		SPC.
		SQ.
		SST./S.S.
		STD./STND.
		ST.
		STOR.
		S.D.
		S.D.S.T.
		S.F.
		STRUC.T.
		SUSP.
		SYM.
		TB.
		TEL./TELE.
		T.V.
		T.CLR.
		T.L.T.
		THK.
		THRES.
		THRU.
		T.
		T.L.T.
		T&G.
		T.O.
		T.O.P.
		T.O.C.
		T.O.P.
		T.O.W.
		T.S.
		TYP.
		U.O.N.
		U.O.N.
		VERT.
		V.G.D.F.
		V.M.C.
		W.SCT.
		W.C.
		W.H.
		WT.
		W.W.M.
		W.
		W.D.W.
		W.G.
		W.
		W/O.
		W.D.
		YD.
		Y.D.



SHADE STRUCTURE AT MARK TWAIN 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
 4915 58TH STREET
 SACRAMENTO, CA 95820

Project Scope:

INSTALLATION OF (1) 30' X 64' PC SHADE STRUCTURE. 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 RESTRIPING
 A. The contractor is responsible for determining the extent of crack repair at (e) hardcourt. Place 2 coats of seal coat on existing paving. Seal coat to be provided over entirety of (e) hardcourt. The contractor is responsible for verifying (e) striping 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
A2.1.1	TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS
A5.1.1	INTERIOR ELEVATIONS
ELECTRICAL	
E0.1	SYMBOLS, NOTES
E1.1	SITE PLAN - ELECTRICAL
E2.1	ONE LINE DIAGRAM
E3.1	DETAILS
TOTAL SHEET COUNT: 14	

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 1-5 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 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 NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBO IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, A CHANGE CONSTRUCTION DOCUMENT OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

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 (d))

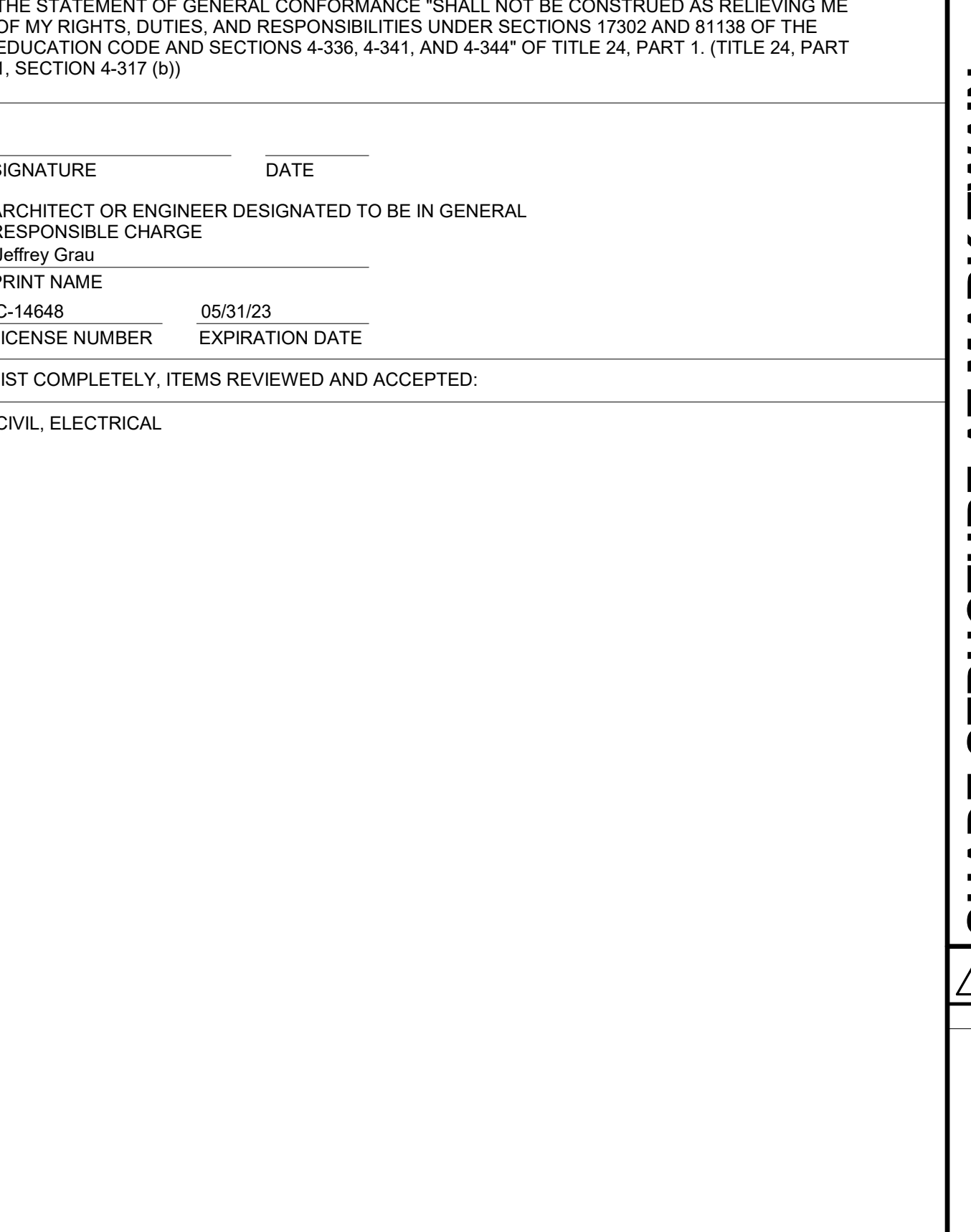
SIGNATURE _____ DATE _____

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

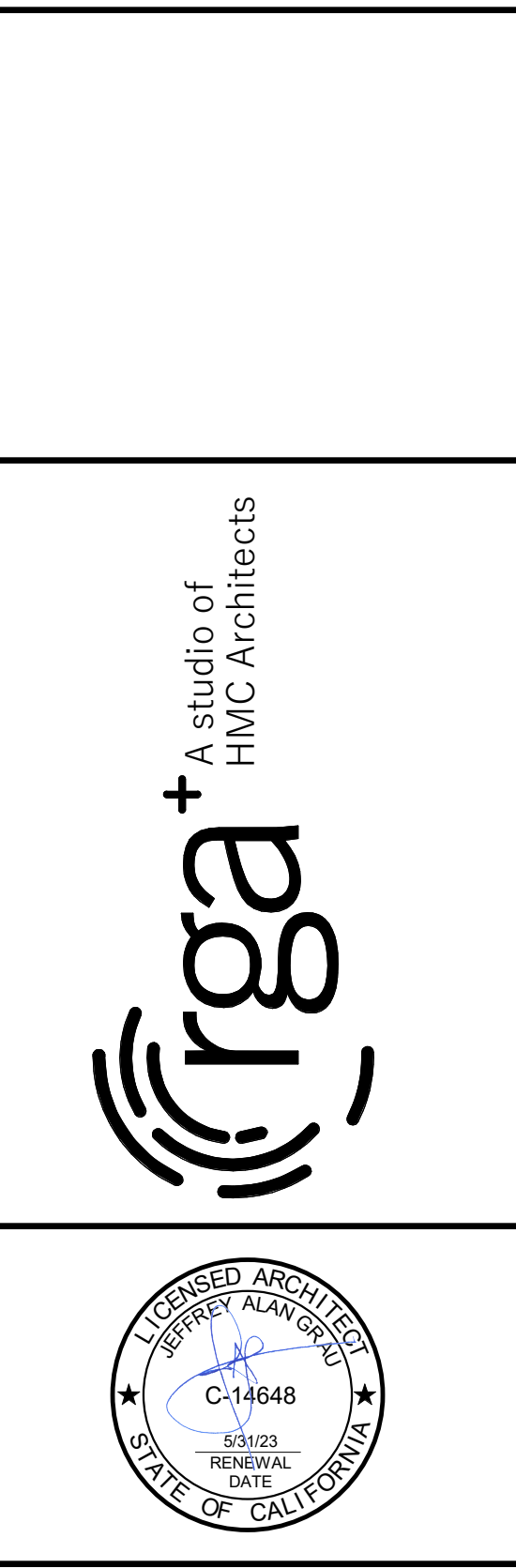
PRINT NAME _____
 C-14648 05/31/23
 LICENSE NUMBER EXPIRATION DATE

LIST COMPLETELY. ITEMS REVIEWED AND ACCEPTED:

CIVIL, ELECTRICAL



PROJECT NO. 1504.14
 DATE: 3/22/2022
 SHEET **A0.1**



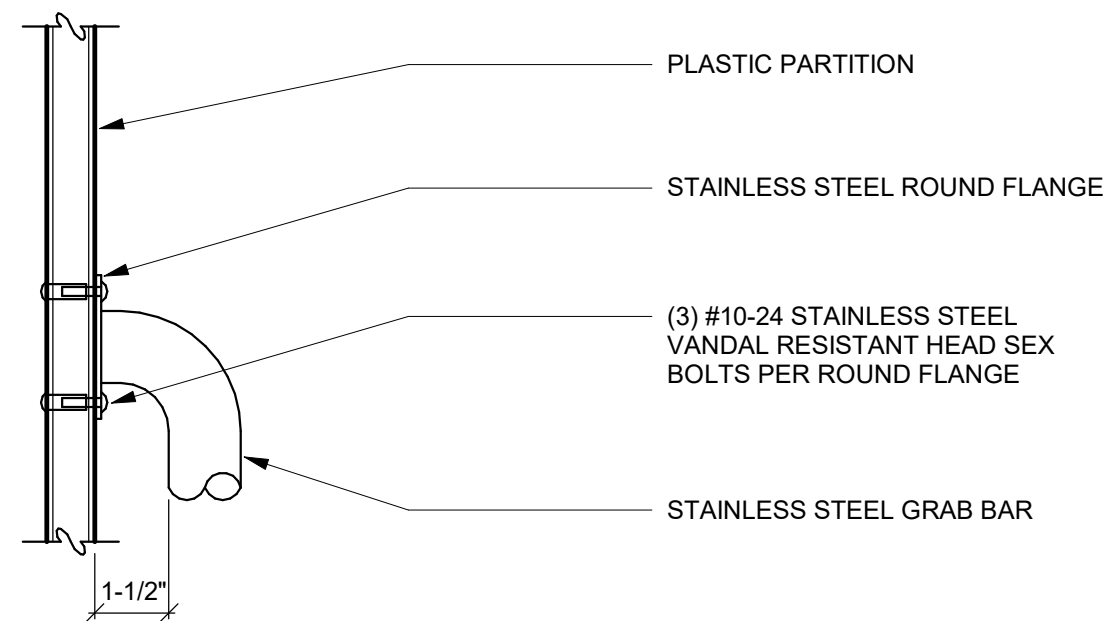
SHADE STRUCTURE AT MARK TWAIN
ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

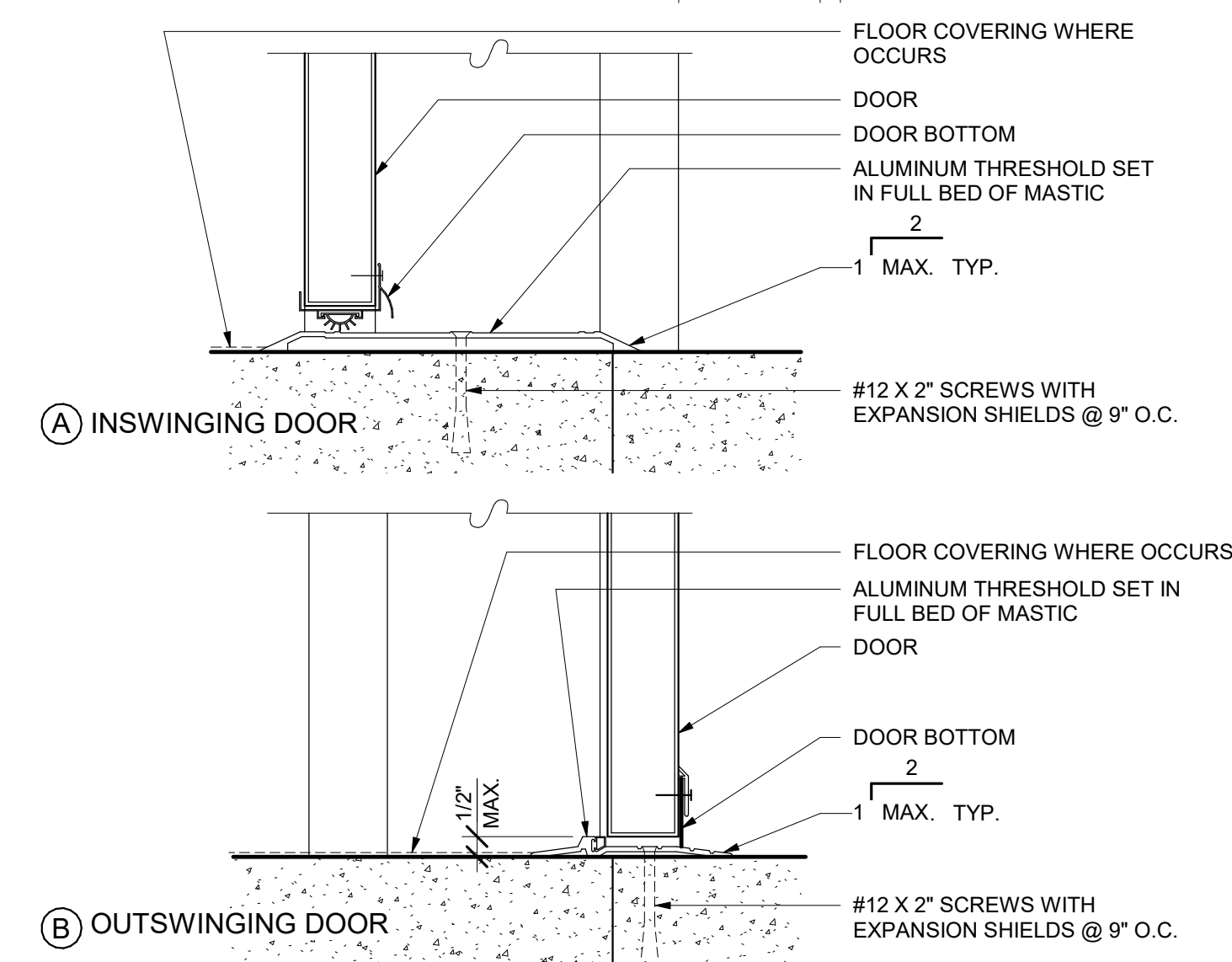
Revision

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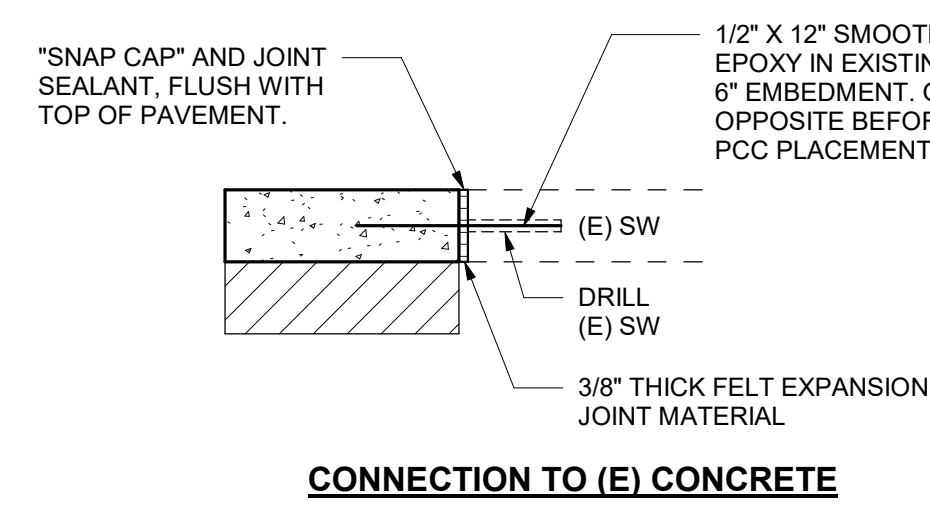
COVER SHEET



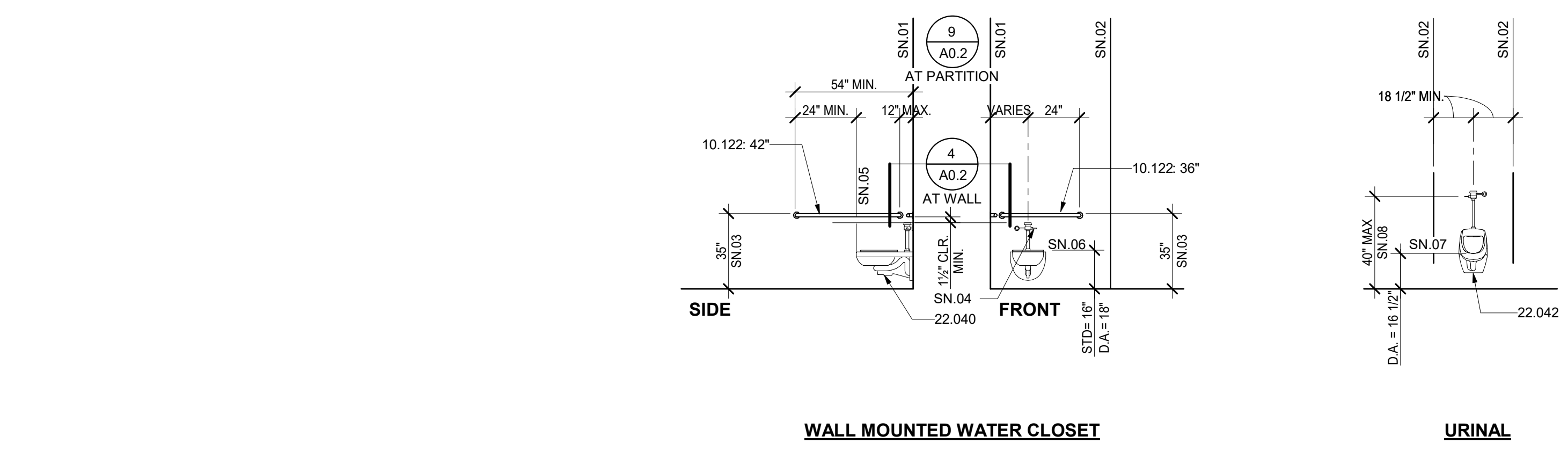
9 TYPICAL GRAB BAR AT PARTITIONS
3" = 1'-0"



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



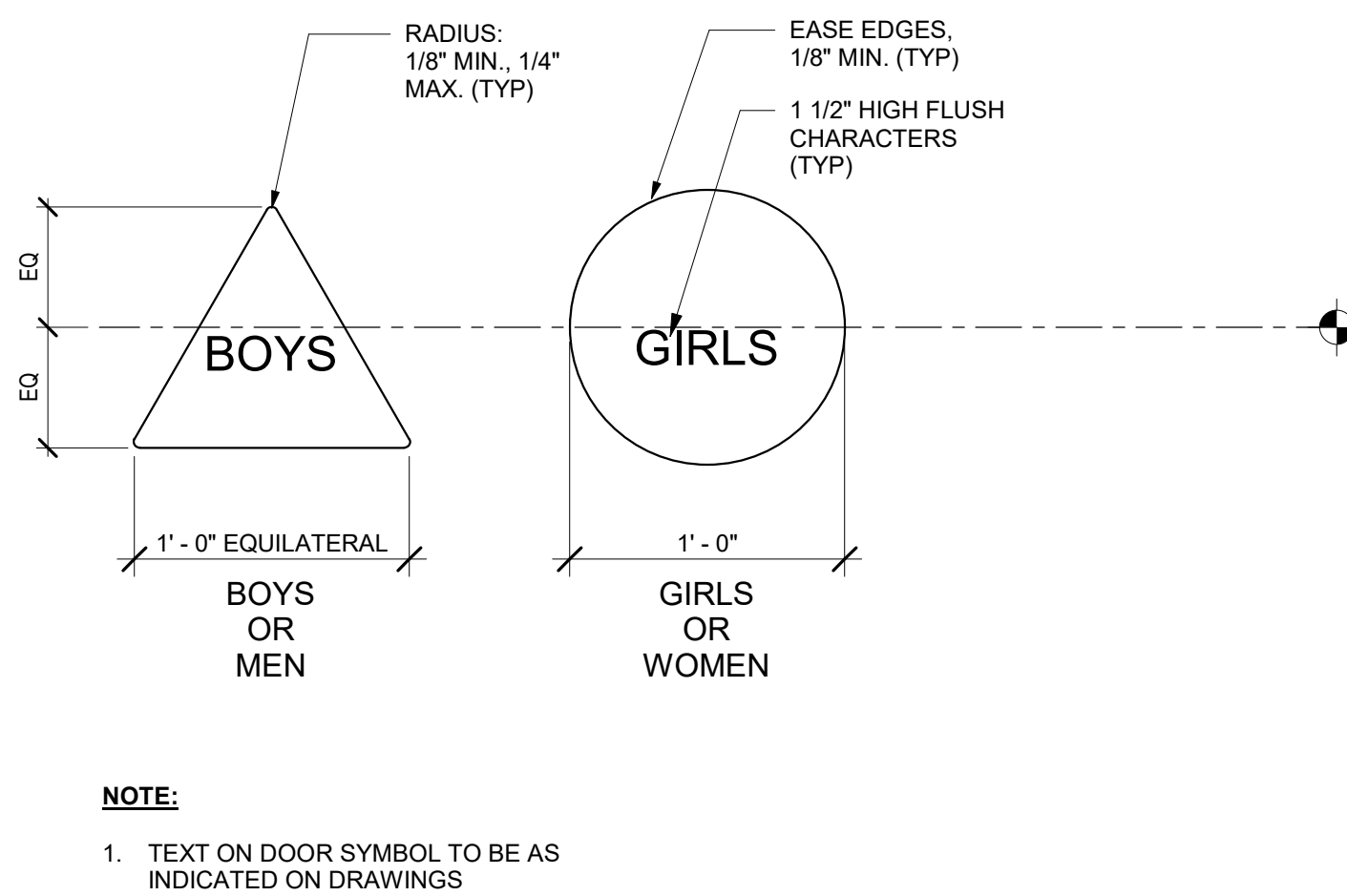
11 CONNECTION TO (E) CONCRETE
1 1/2" = 1'-0"



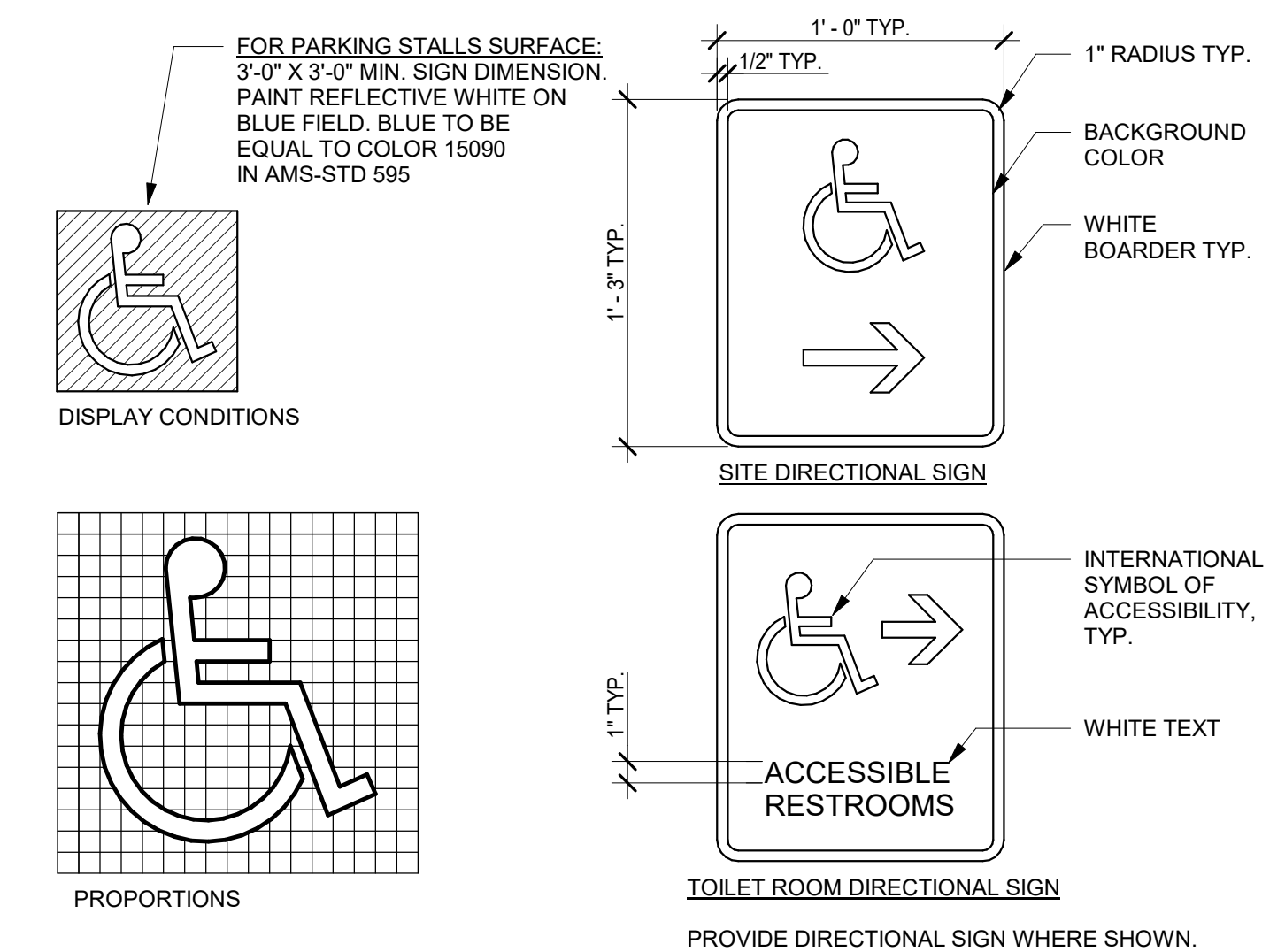
FIXTURE AND ACCESSORY HEIGHTS

FURNITURE EQUIPMENT HEIGHTS

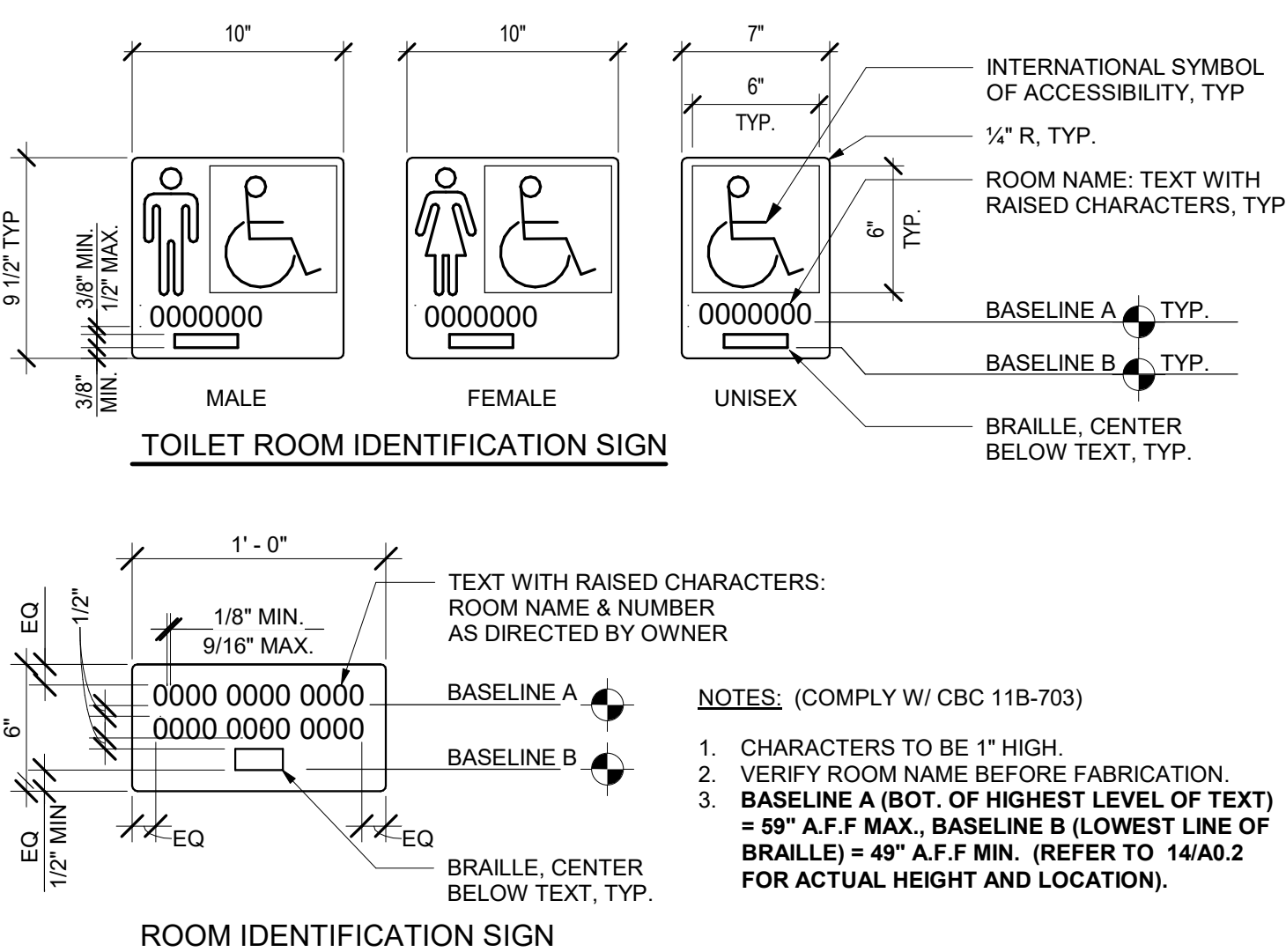
6 TYPICAL MOUNTING HEIGHTS AND DETAILS
1/4" = 1'-0"



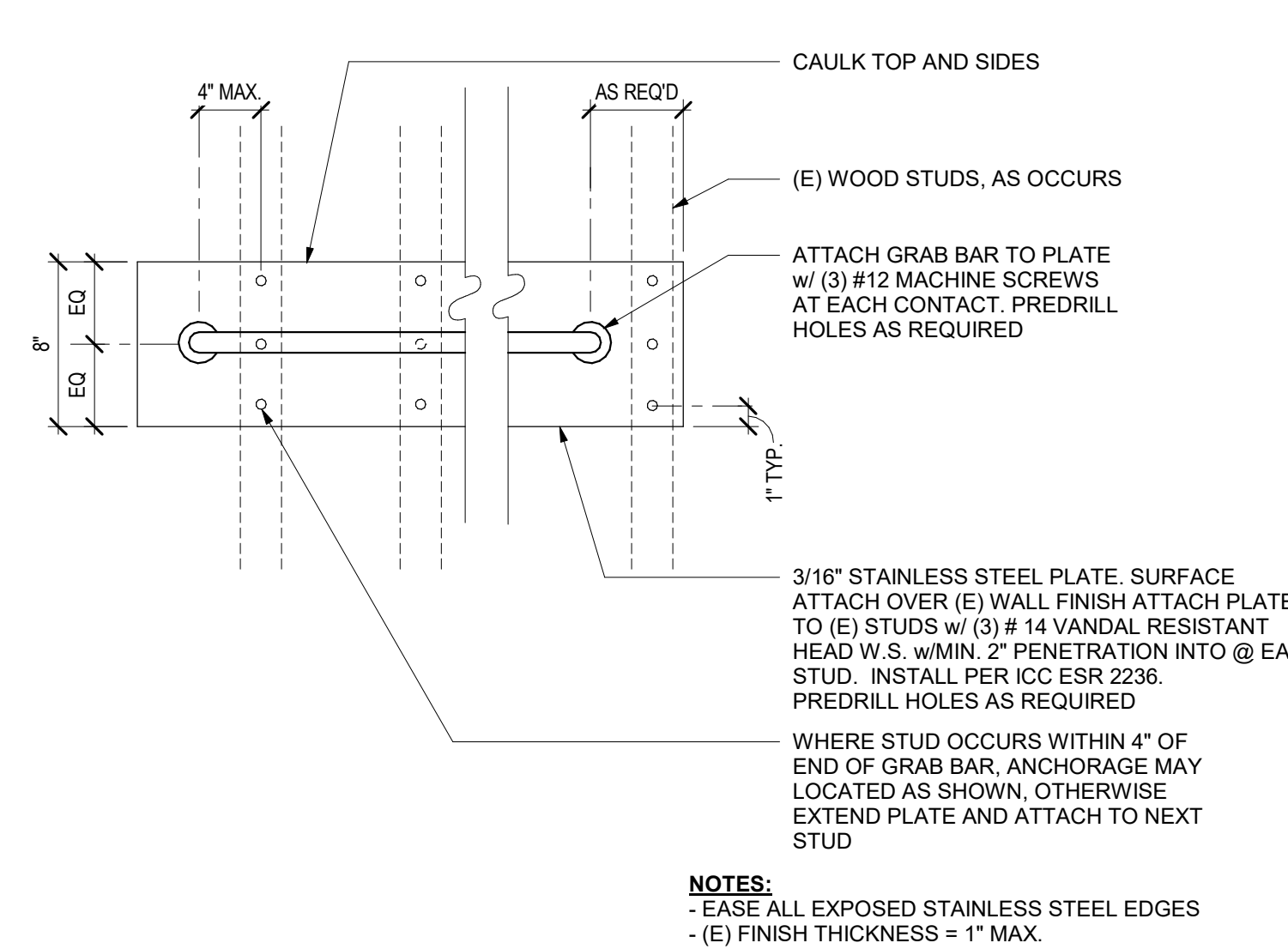
7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"



3 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



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



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

GENERAL NOTES

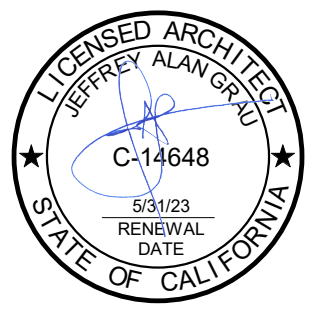
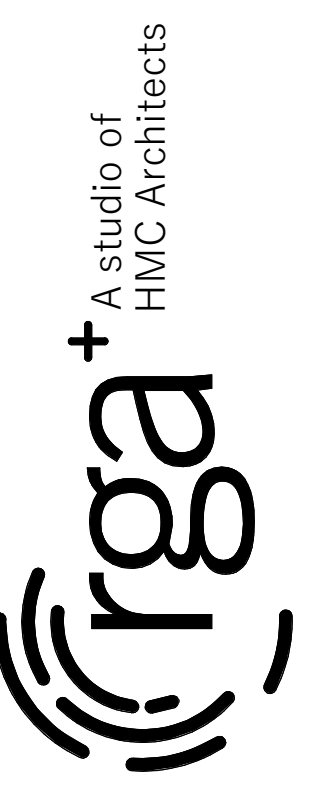
- TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
- ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
- HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

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 FRONT EDGE OF WATER CLOSET
- SN.06 TOP OF SEAT
- SN.07 LIP HEIGHT
- SN.08 FLUSH HANDLE HEIGHT
- SN.09 MINIMUM KNEE CLEARANCE
- SN.10 MINIMUM APRON CLEARANCE
- SN.11 BOTTOM EDGE OF REFLECTIVE SURFACE
- SN.12 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV. OR COUNTER; TOP OF MIRROR TO CENTERLINE CONTROL.
- SN.13 74" MIN. FOR HIGH SCHOOL & ADULTS.
- SN.14 TO CENTERLINE CONTROL.
- SN.15 PROVIDE AT ALL TOILET ROOM DOORS
- SN.16 CENTERLINE OF SIGN.
- SN.16 CENTERLINE OF SYMBOL

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
- 22.042 URINAL



SHADE STRUCTURE AT MARK TWAIN ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Revision

TYPICAL MOUNTING HEIGHTS AND DETAILS

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION	
School District:	SACRAMENTO UNIFIED SCHOOL DISTRICT
Project name / school:	MARK TWAIN SHADE STRUCTURE
Project address:	4914 58TH STREET, 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 checked="" type="checkbox"/>
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" 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 checked="" 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"/>
Wildland Interface Area (WIFA) <i>(If any designations are checked, project design must meet the requirements of CBC Chapter 7A)</i>		WIFA <input type="checkbox"/>	

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

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

Accepted by: _____ 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

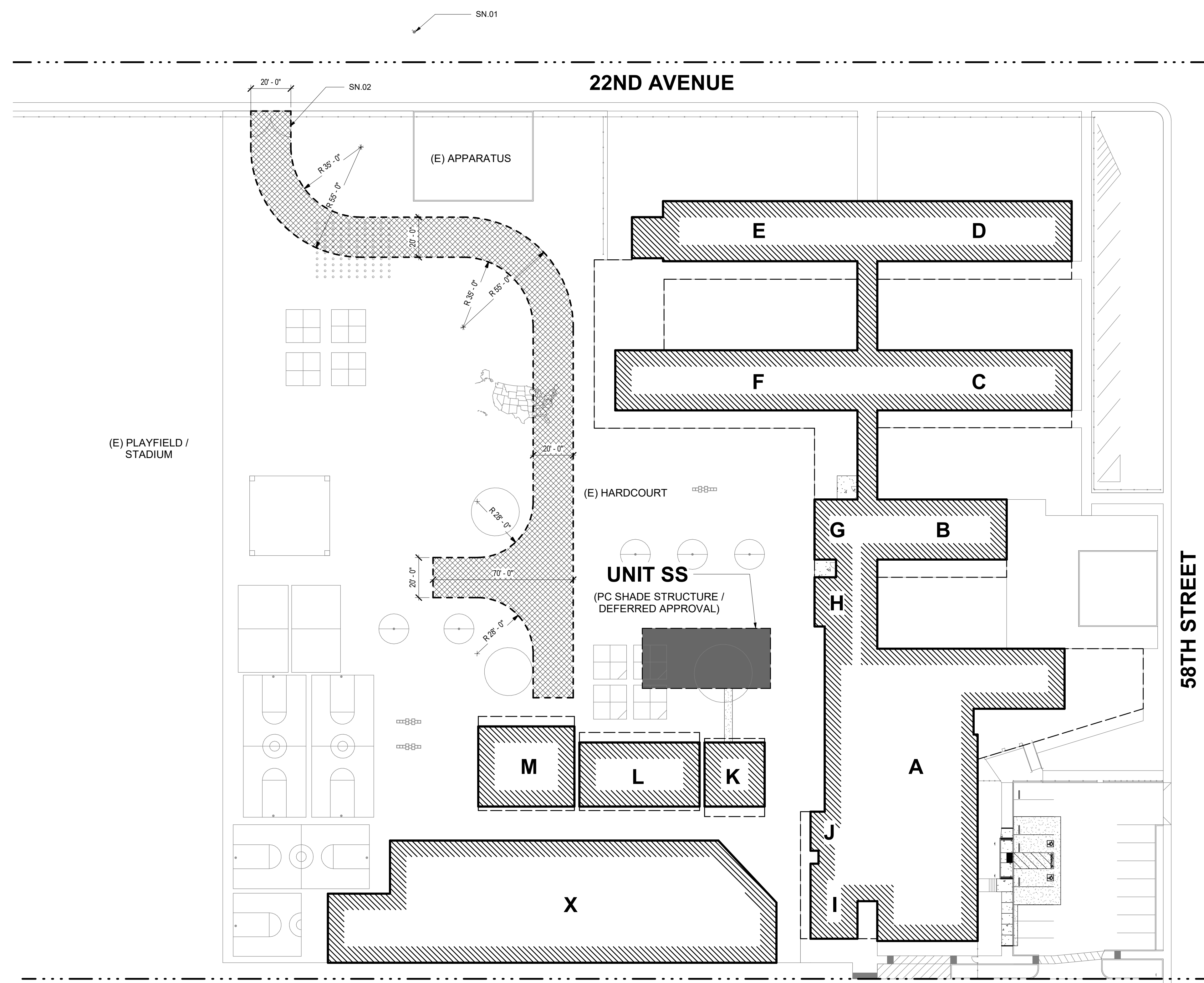
- PROPERTY LINE
- X UNIT DESIGNATION SHADE STRUCTURE
- X UNIT DESIGNATION EXISTING BUILDINGS
- [Pattern] CONCRETE WALK / PAVING
- [Pattern] ASPHALT CONCRETE PAVING
- [Pattern] (E) EMERGENCY ACCESS LANE
- [Pattern] (E) CHAIN LINK FENCE
- [Symbol] (E) FIRE HYDRANT (NTS)

SHEET NOTES

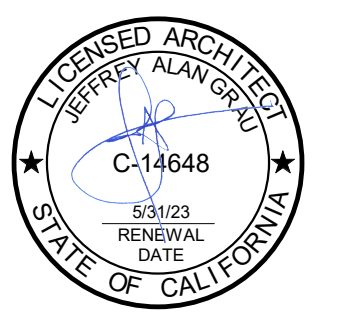
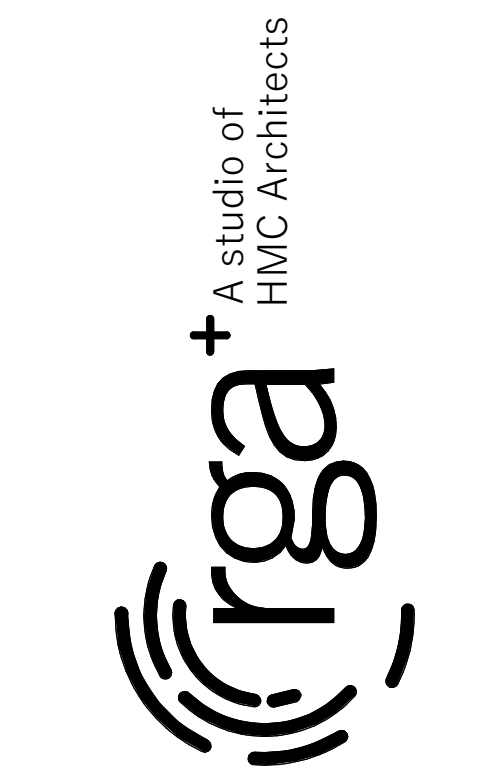
- SN.01 (E) FIRE HYDRANT
- SN.02 (E) 10'-0" WIDE GATES WITH KNOX LOCK BOX

BUILDING DESIGNATIONS

- UNIT A - ADMINISTRATION AND MULTI-PURPOSE
- UNIT B - CLASSROOMS
- UNIT C - CLASSROOMS
- UNIT D - CLASSROOMS
- UNIT E - CLASSROOMS
- UNIT F - CLASSROOMS
- UNIT G - TOILET ROOMS
- UNIT H - MECH/ELECTRICAL
- UNITS I - J - TEACHER FACILITIES
- UNIT K - CLASSROOMS
- UNIT L - CLASSROOMS
- UNIT M - CLASSROOMS
- UNIT X - BUILDING BELONGS TO SEPARATE SITE



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



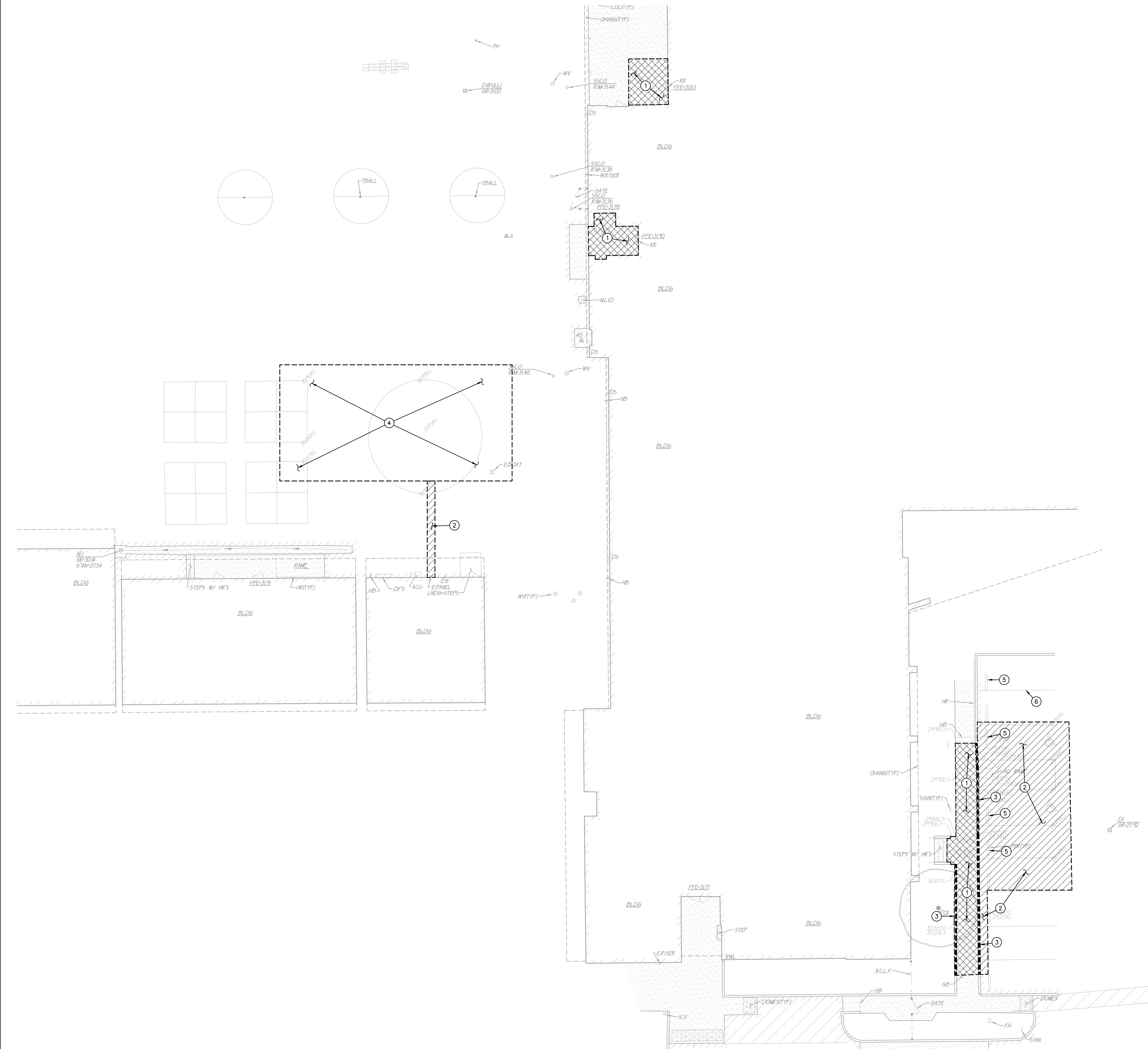
SHADE STRUCTURE AT MARK TWAIN ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

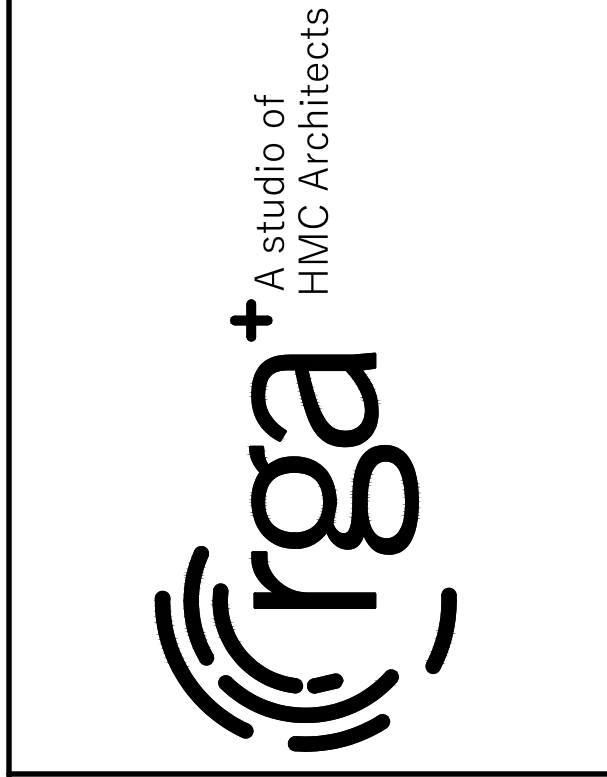
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LOCAL FIRE AUTHORITY SITE PLAN
SEE OTHER SHEETS FOR CONSTRUCTION
THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO. 1504.14
DATE: 3/22/2022
SHEET **A0.7**



- 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 CONCRETE CURB.
 4. REMOVE ASPHALT PAVING AS REQUIRED AT PROPOSED SHADE STRUCTURE FOOTING LOCATIONS TO ALLOW FOR INSTALLATION.
 5. REMOVE AND SALVAGE EXISTING PARKING BUMPER FOR REINSTALLATION.
 6. BLACK OUT EXISTING STRIPING.



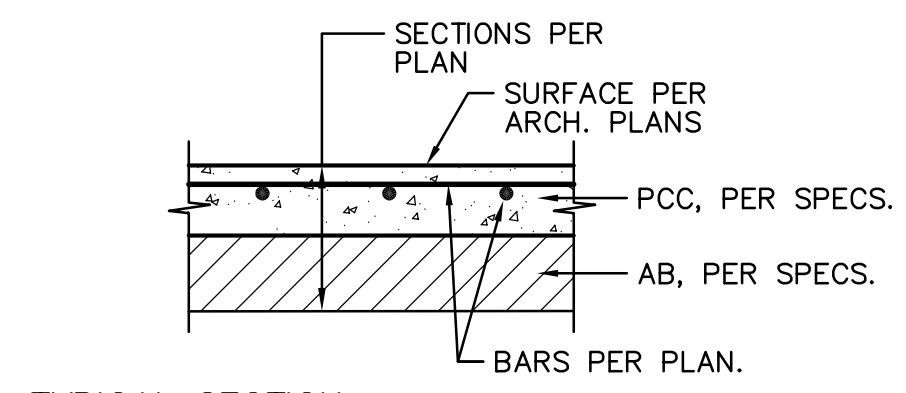
**SHADE STRUCTURE AT MARK TWAIN
ELEMENTARY SCHOOL**

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA**

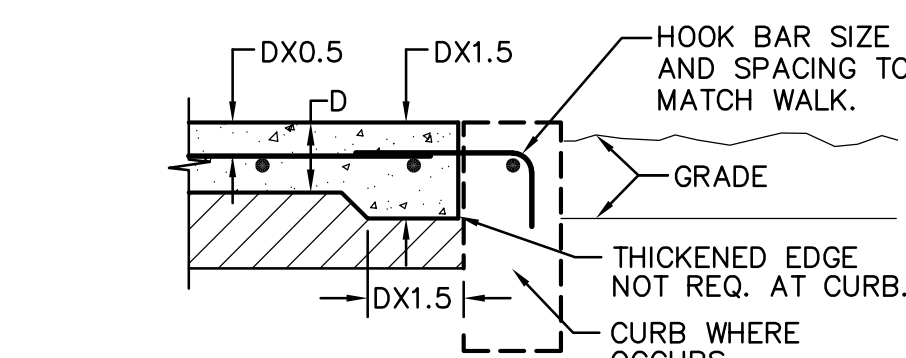
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DEMOLITION PLAN

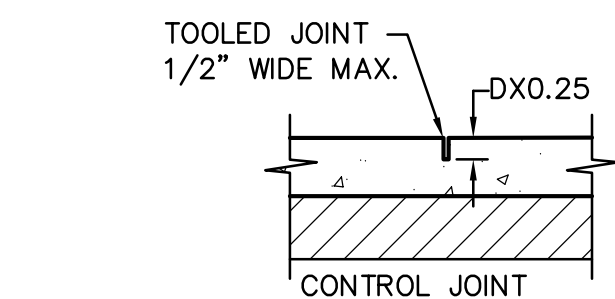
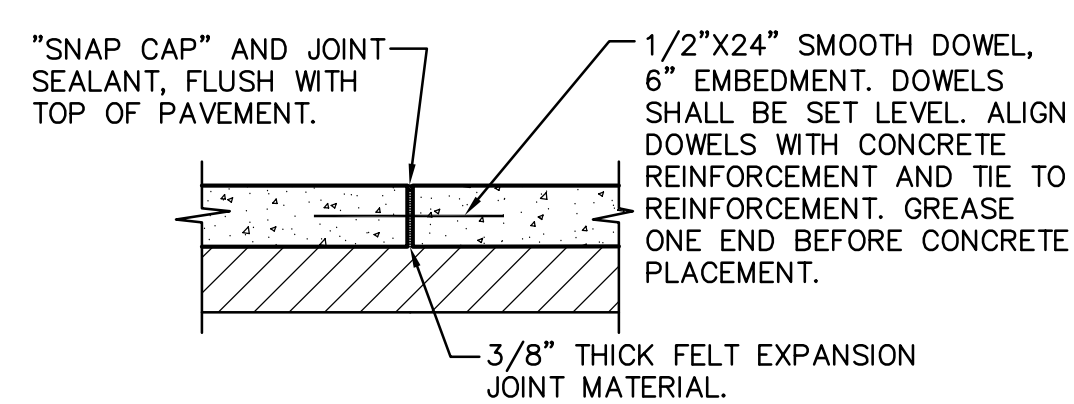
PROJECT NO. 1504.14
DATE: 3/21/2022
SHEET **C1.1**



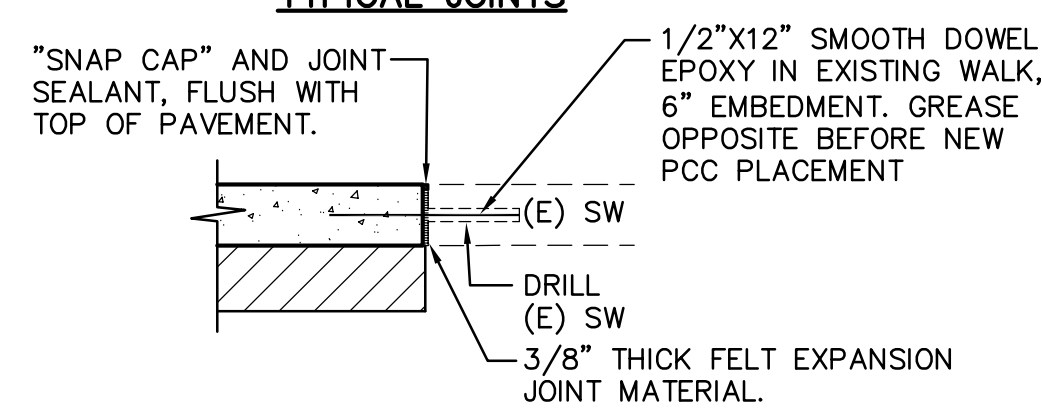
TYPICAL SECTION



TYPICAL THICKENED EDGE



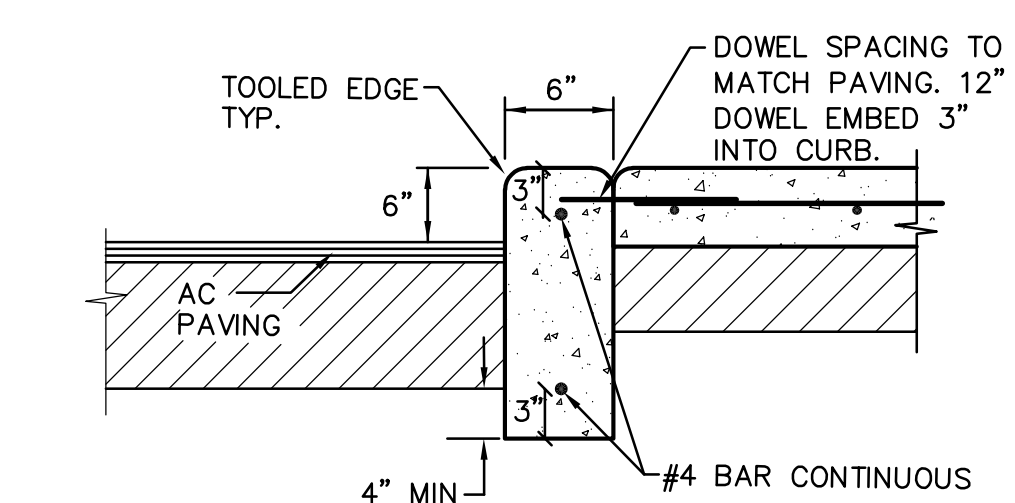
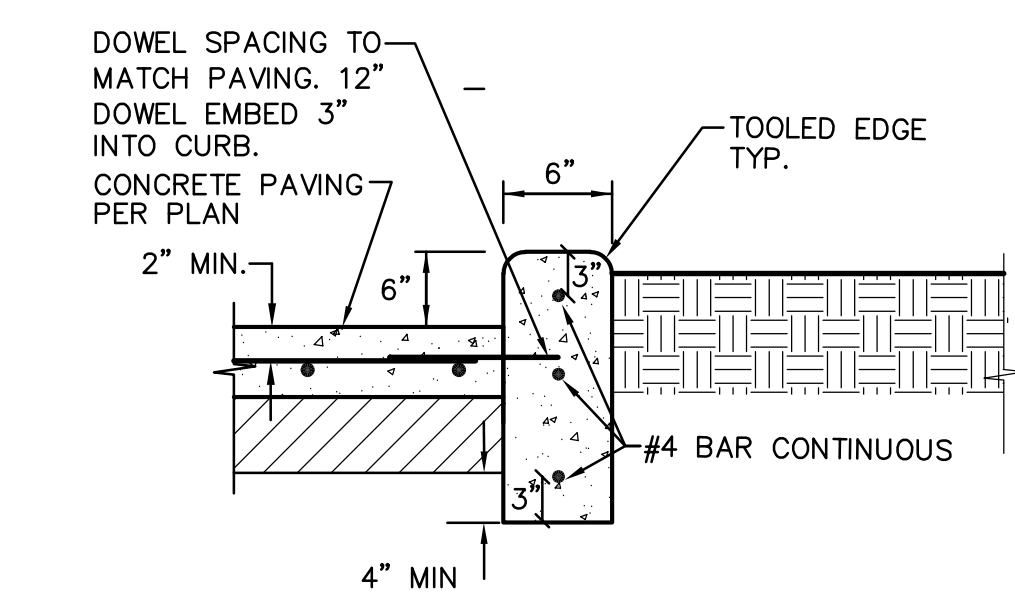
TYPICAL JOINTS



CONNECTION TO (E) CONCRETE

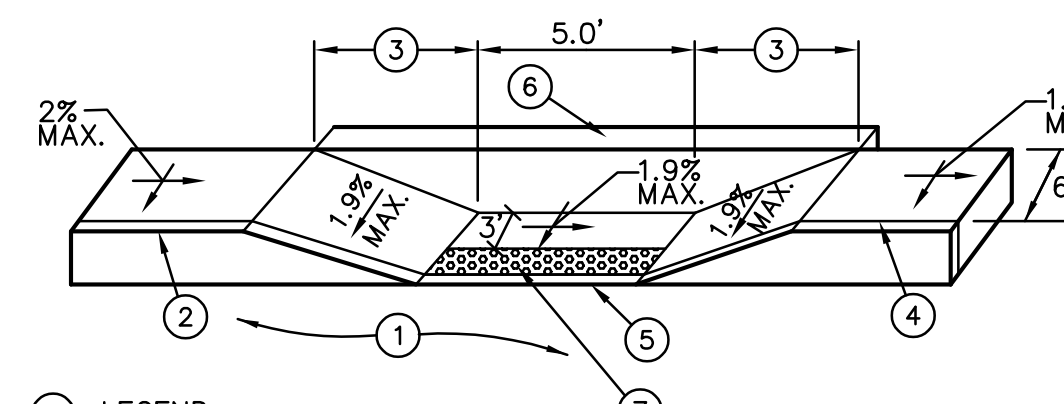
- NOTES:
1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MIN.
 2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MIN.
 3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 CONCRETE SIDEWALK
C2.1 NO SCALE



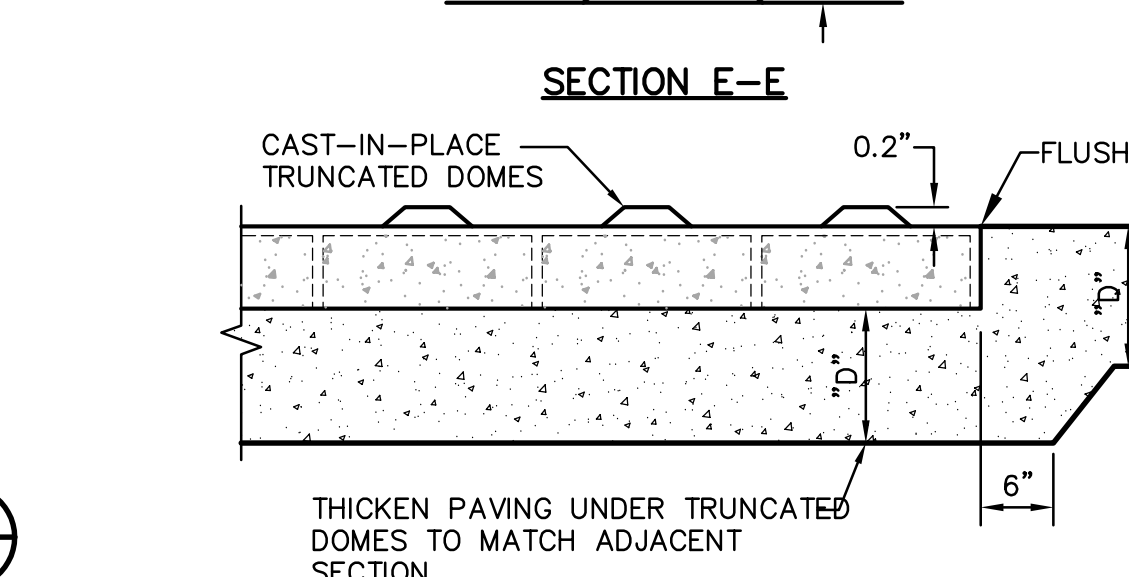
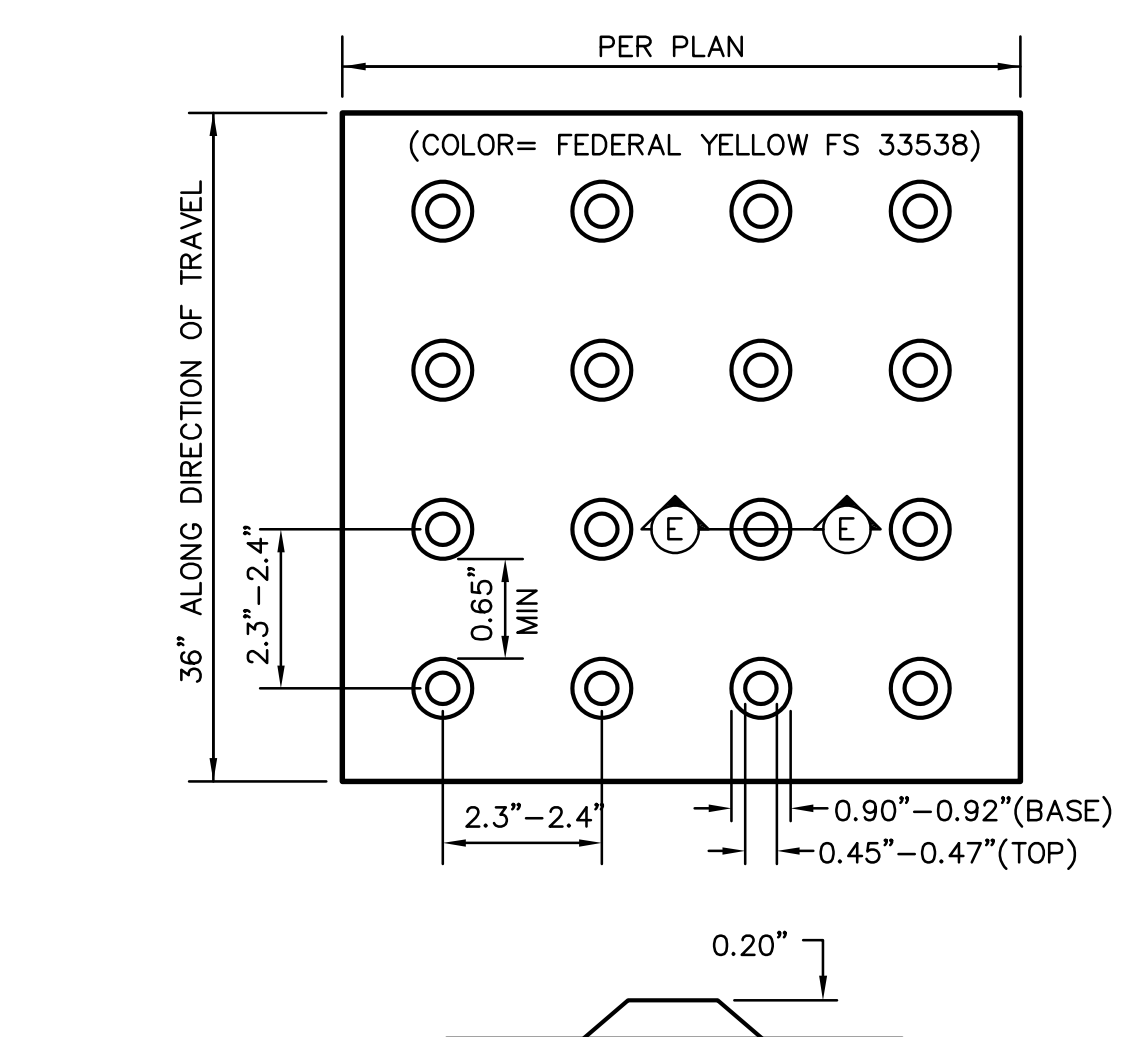
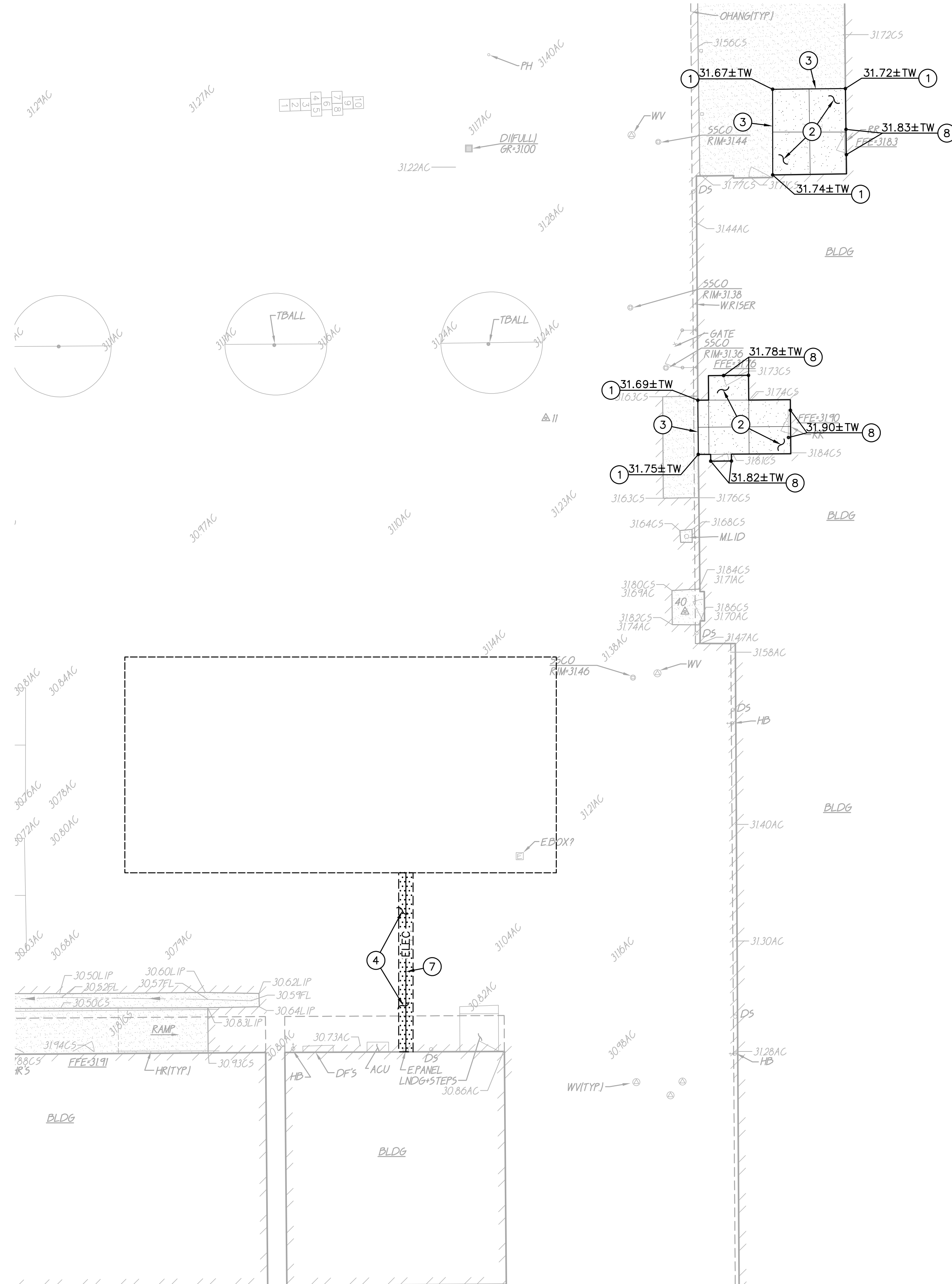
- NOTES:
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
 2. AT E.J. USE 1/2" X 24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2 CONCRETE CURB
C2.1 NO SCALE



- LEGEND:
1. PAVEMENT.
 2. TOP FACE OF CURB, STANDARD 6" HIGH.
 3. 8.3% (1:12) MAXIMUM SLOPE, 2% MAX CROSS SLOPE.
 4. SCORE MARK, 6" BACK OF CURB.
 5. TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.6.
 6. 6" WIDE RETAINING CURB HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
 7. PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK LESS 2 INCHES MAXIMUM ON EACH SIDE PER 11B-705.1.2.2.

3 ACCESSIBLE CURB RAMP
C2.1 NO SCALE



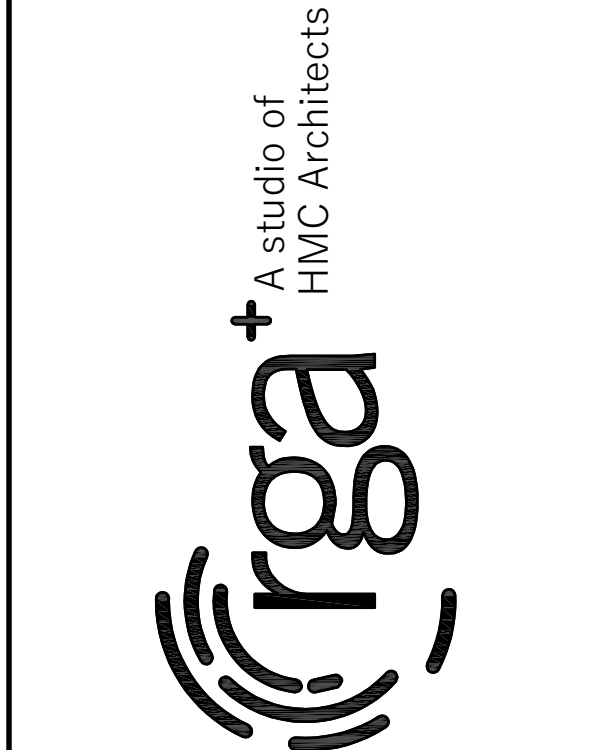
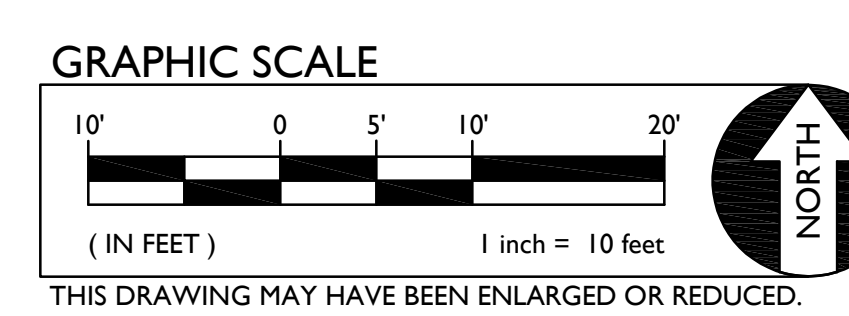
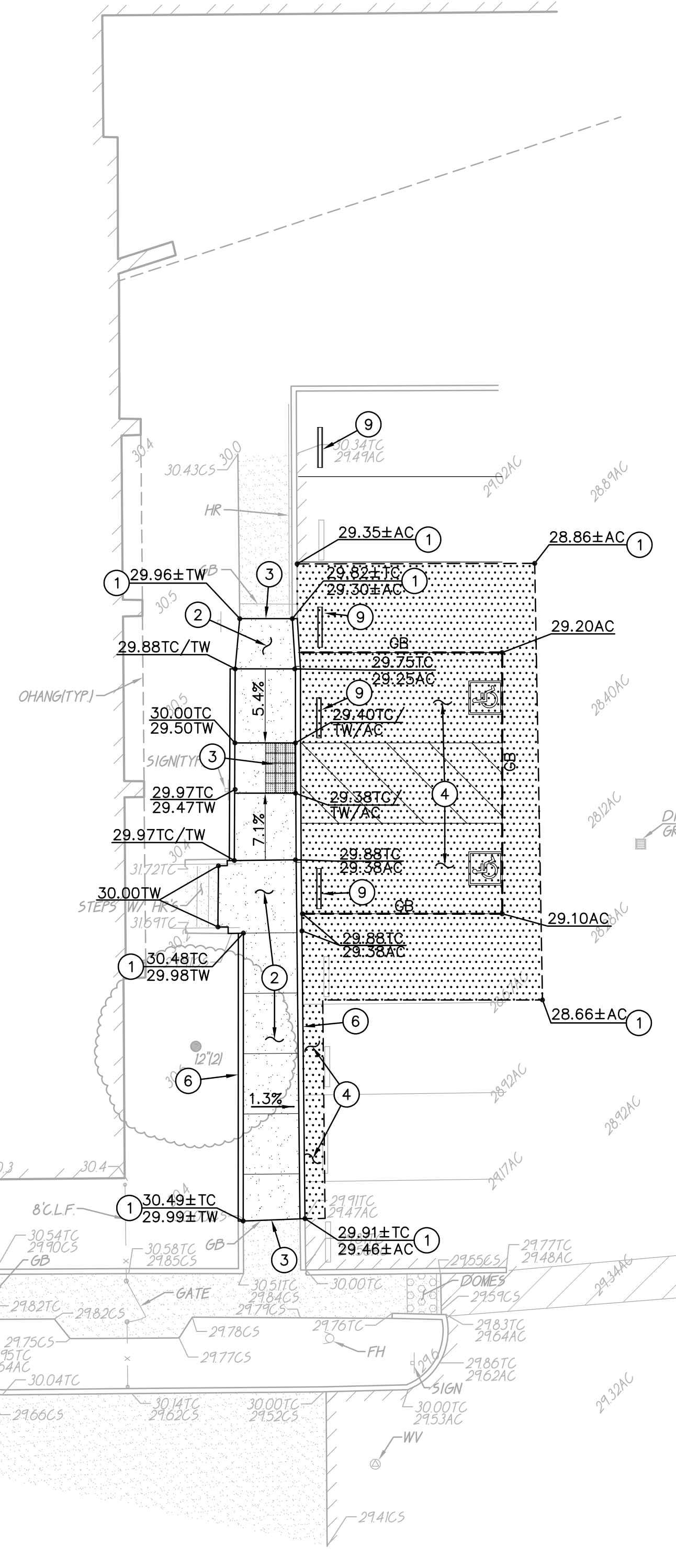
4 TRUNCATED DOMES
C2.1 NO SCALE

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

1. MATCH EXISTING GRADE/ELEVATION.
2. CONSTRUCT CONCRETE SIDEWALK PER PLACE 5" PCC WITH #4 REBAR AT 24" O.C.E.W. OVER 12" CL2 AGGREGATE BASE ON COMPACTED SUBGRADE.
3. DOWEL INTO EXISTING CONCRETE PER (1) C2.1
4. PLACE 3" AC OVER 12" AB ON COMPACTED SUBGRADE.
5. CONSTRUCT ACCESSIBLE CURB RAMP PER (3) C2.1
6. CONSTRUCT CONCRETE CURB PER (2) C2.1
7. REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.
8. PROPOSED SIDEWALK ELEVATIONS SHALL MEET FLUSH WITH EXISTING FINISH FLOOR.
9. PLACE SALVAGED CONCRETE STOP BAR.

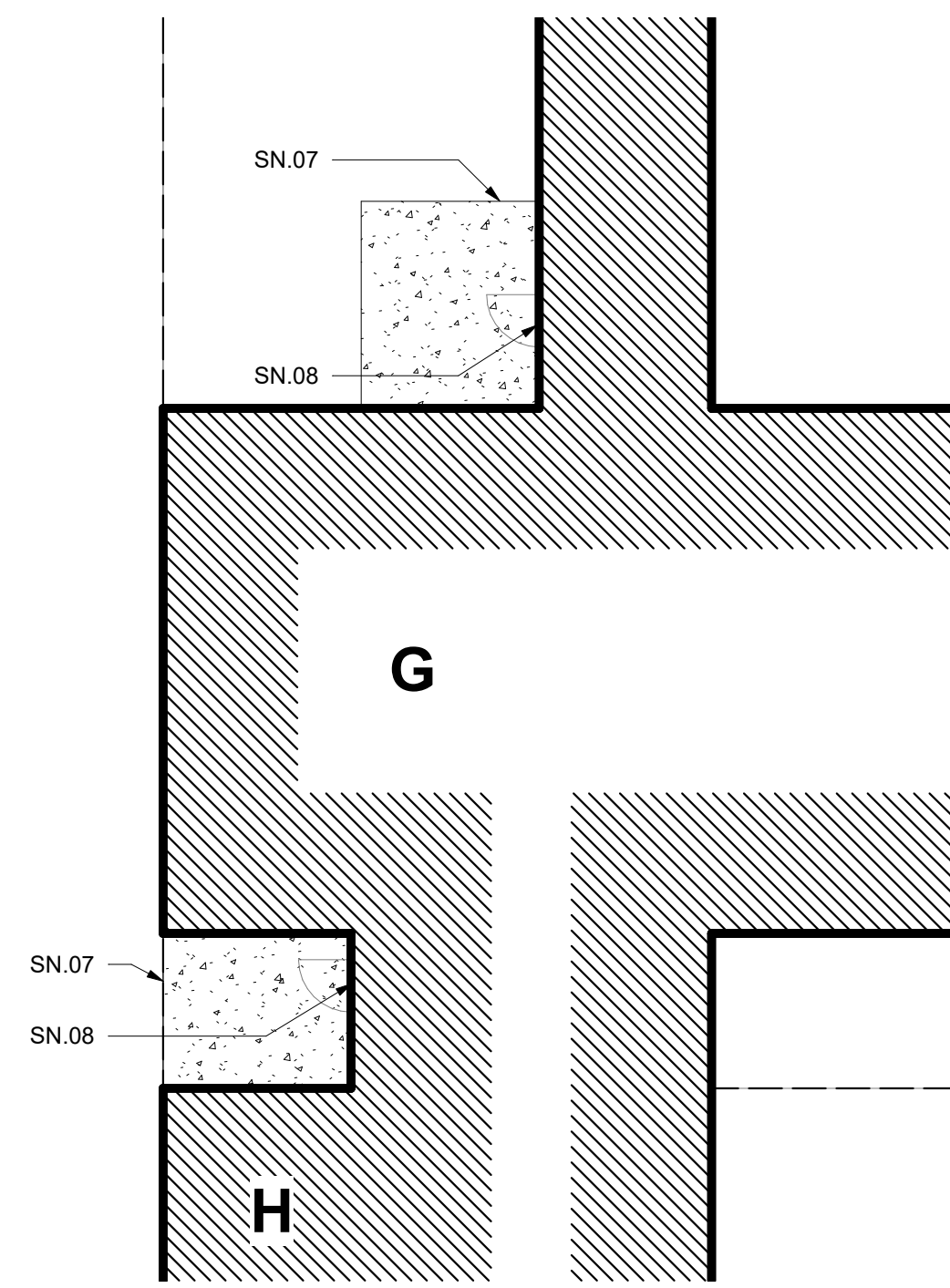


SHADE STRUCTURE AT MARK TWAIN
ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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GRADING AND PAVING PLAN

PROJECT NO. 1504.14
DATE: 3/21/2022
SHEET C2.1



2 (E) DRINKING FOUNTAIN
NOT TO SCALE

3 ENLARGED PLAN - P.O.T.
1" = 10'-0"

PROPOSED SHADE STRUCTURE				
UNIT	DESCRIPTION	CONSTRUCTION TYPE	OCCUPANCY	ALLOWABLE AREA
SS1-SS2	SHADE STRUCTURE	I-B OR	A-3	9,500 SF MAX
		V-B	A-3	6,000 SF MAX

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	MULTI-PURPOSE, ADMIN., CLASSROOMS	6936, 15440	10,779	
B	CLASSROOMS	6936	1,930	
C	CLASSROOMS	6936	2,890	
D	CLASSROOMS	6936	2,890	
E	CLASSROOMS	6936	2,890	
F	CLASSROOMS	6936	3,610	
G	TOILET ROOMS	6936, THIS APPLICATION	630	
H	MECH. / ELECTRICAL	6936	557	
I-J	TEACHER FACILITIES	11292, THIS APPLICATION	2,020	
K	RELOCATABLE CLASSROOMS	53491	960	
L	RELOCATABLE CLASSROOMS	-	1,920	
M	RELOCATABLE CLASSROOMS	-	1,920	

LEGEND

- - - - - PROPERTY LINE
- [X] UNIT DESIGNATION
PC SHADE STRUCTURE / DEFERRED APPROVAL
- [Hatched Box] UNIT DESIGNATION
EXISTING BUILDINGS
- [Dashed Line] EXPANSION JOINT
- [Hatched Box] CONCRETE WALK / PAVING CONTROL JOINT
- [Dotted Box] 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.
 - 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 20 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 LIGHT 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 60" 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).

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.

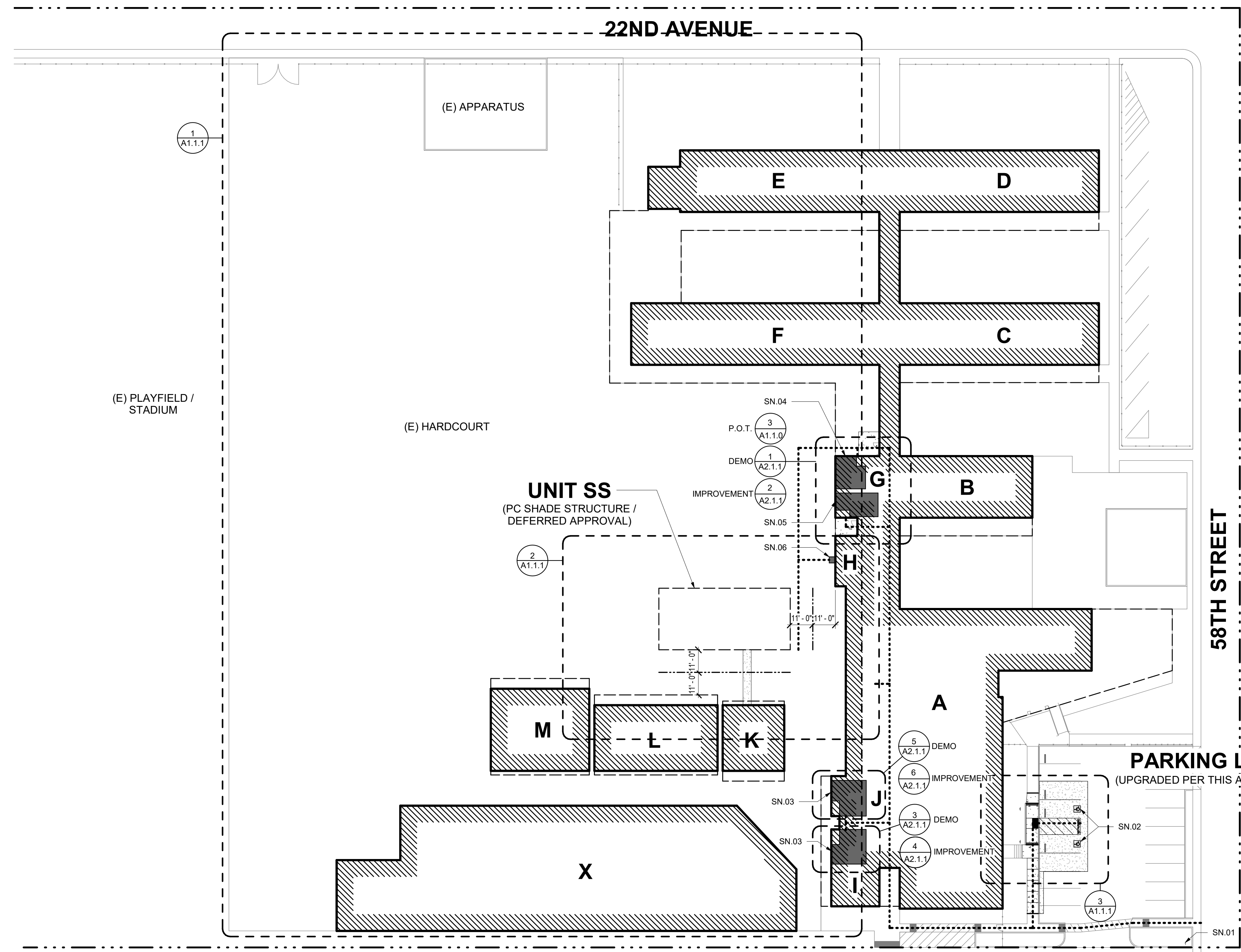
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT TO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE PARKING STALL CALCULATION

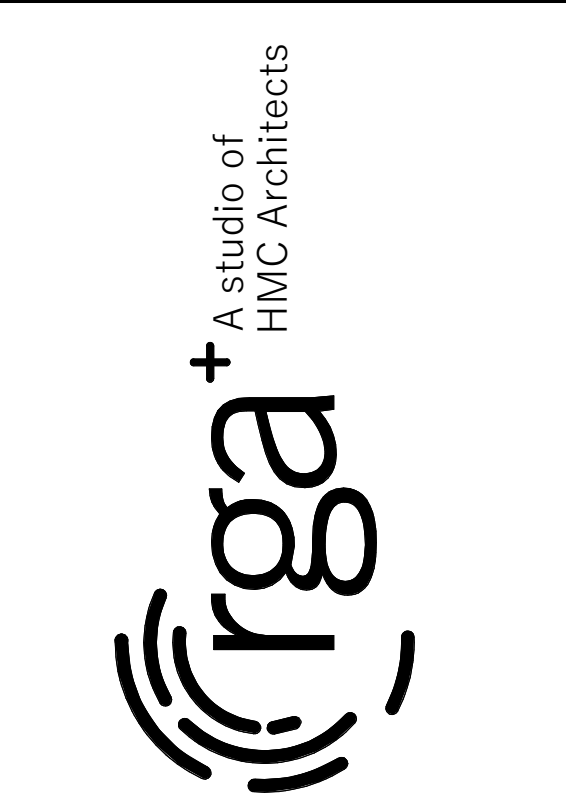
TOTAL PARKING STALL COUNT:	16 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	1 (1-25 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	1 STANDARD & 1 VAN

SHEET NOTES

- SN.01 (E) PARKING LOT ENTRANCE SIGN REVIEWED AND VERIFIED 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 REVIEWED AND VERIFIED PER THIS APPLICATION. SEE 2/A1.1.0.
- SN.07 INSTALL NEW CONCRETE WITH 2% MAX. SLOPE IN ALL DIRECTIONS. EDGES TO HAVE A FLUSH TRANSITION TO (E) SLAB. SEE 11/A0.2.
- SN.08 REMOVE (E) DOOR THRESHOLD. INSTALL NEW DOOR THRESHOLD PER 10/A0.2.



1 SITE PLAN
1" = 30'-0"



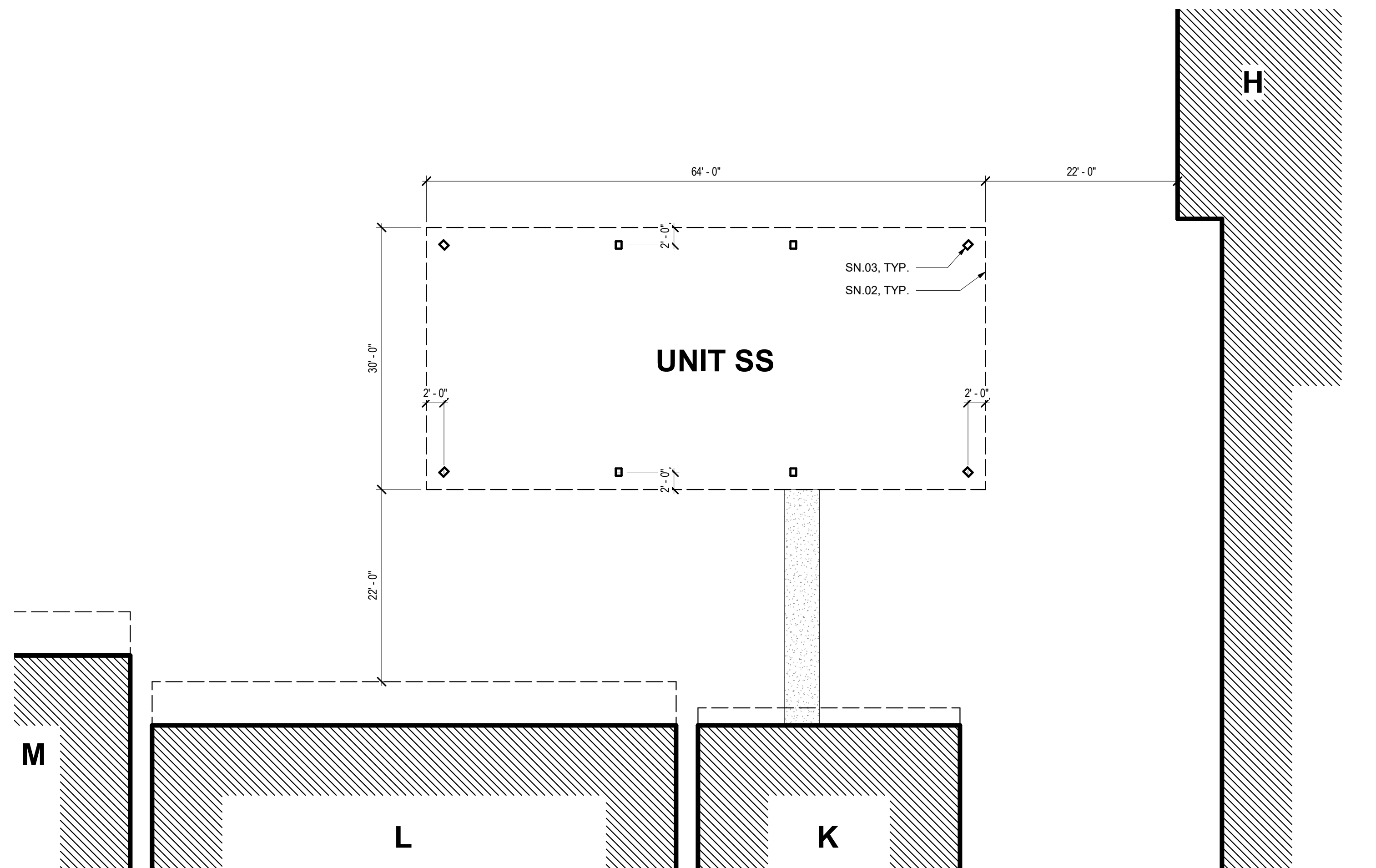
SHADE STRUCTURE AT MARK TWAIN ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

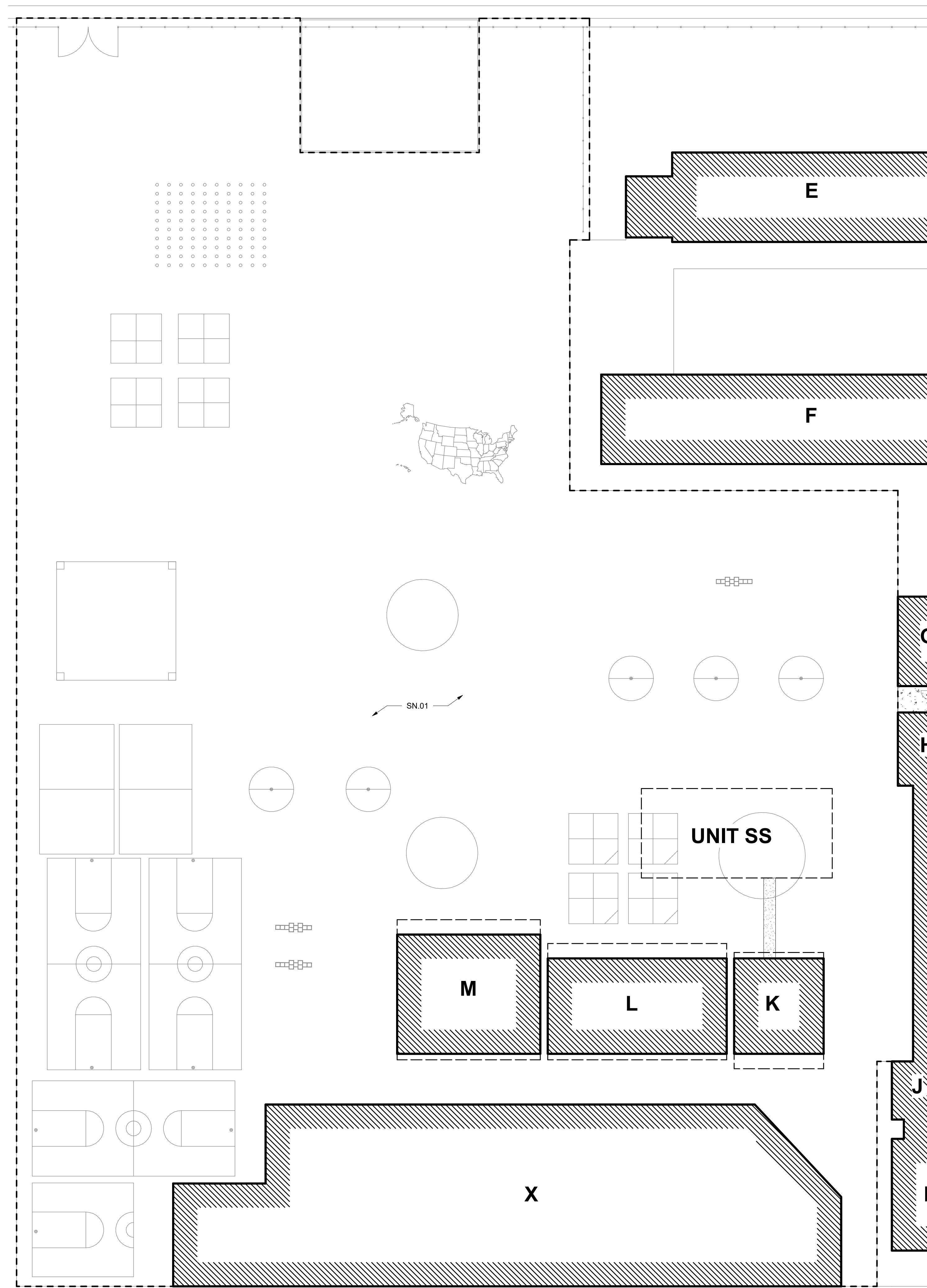
SITE PLAN AND CODE INFORMATION

PROJECT NO. 1504.14
 DATE: 3/22/2022
 SHEET A1.1.0

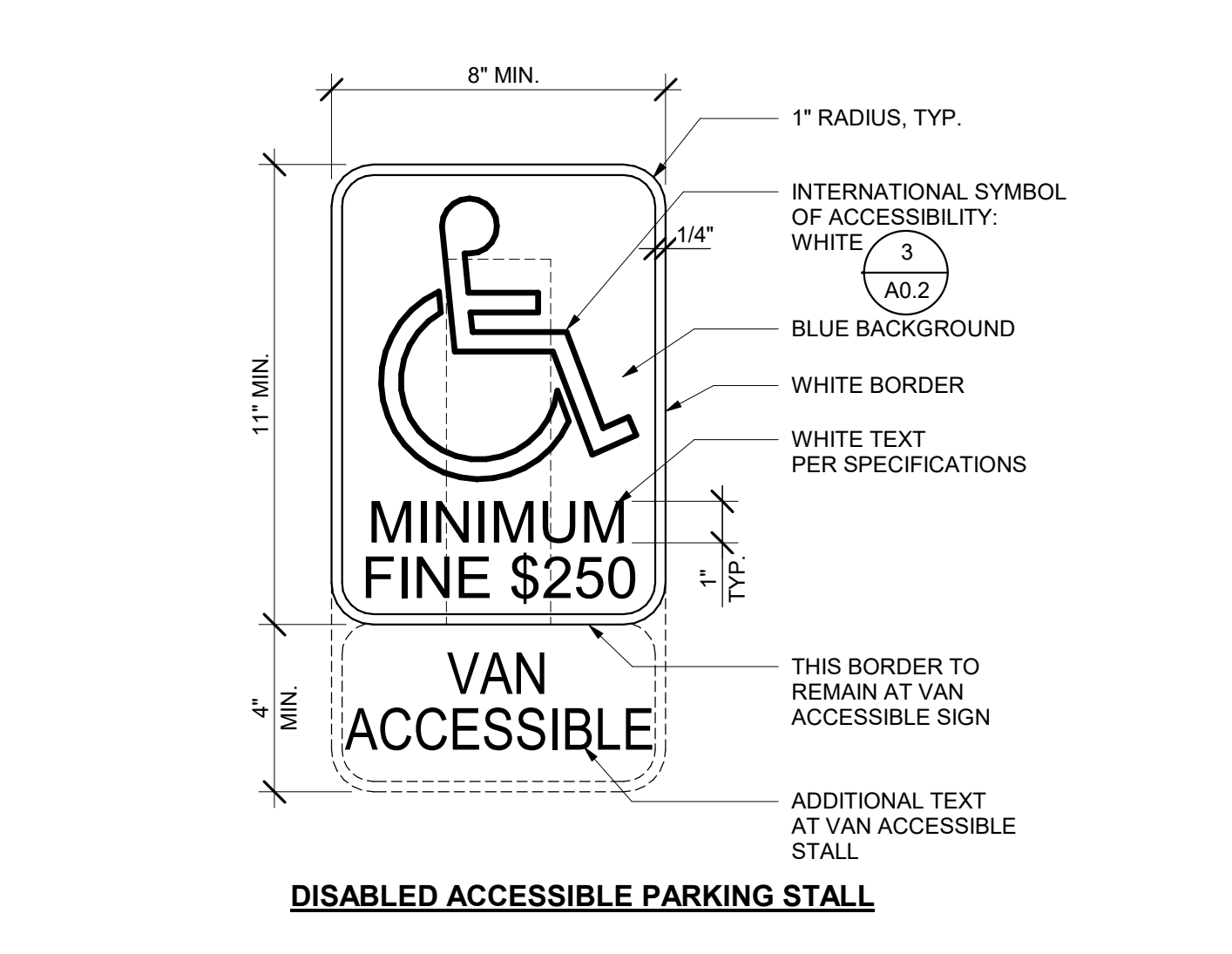
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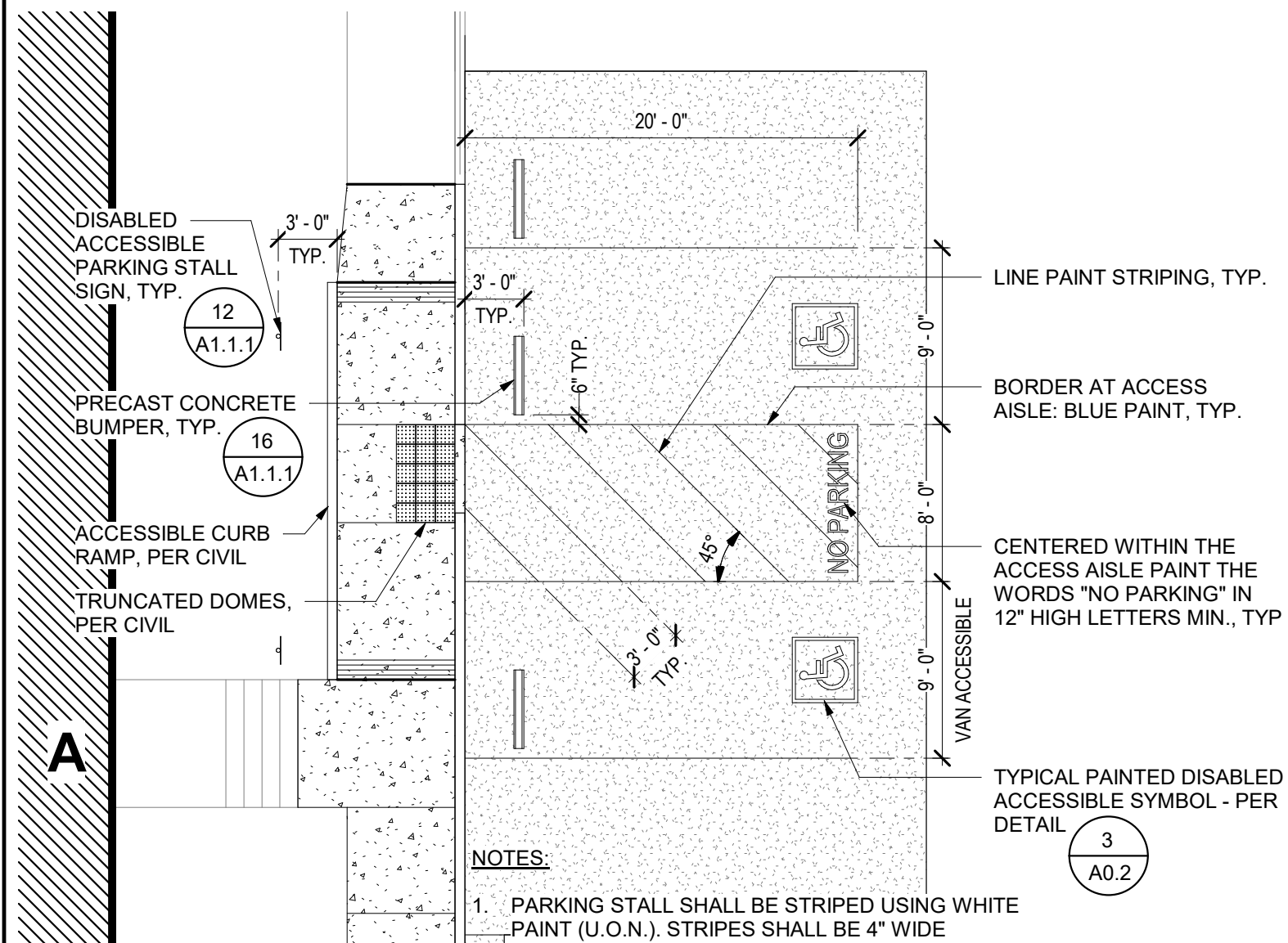
2 ENLARGED PLAN - SHADE STRUCTURE
1" = 10'-0"



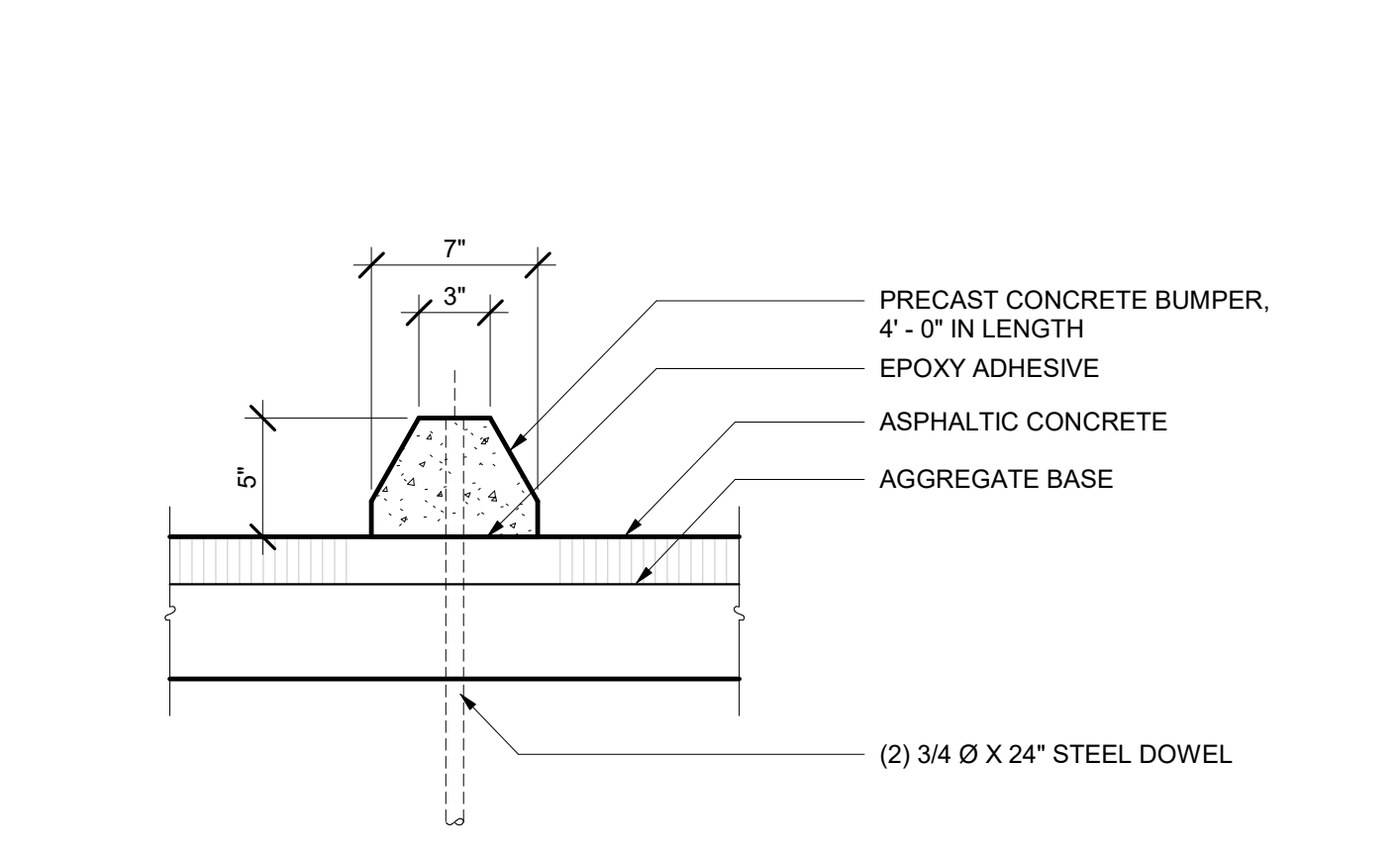
1 ENLARGED PLAN - STRIPING
1" = 20'-0"



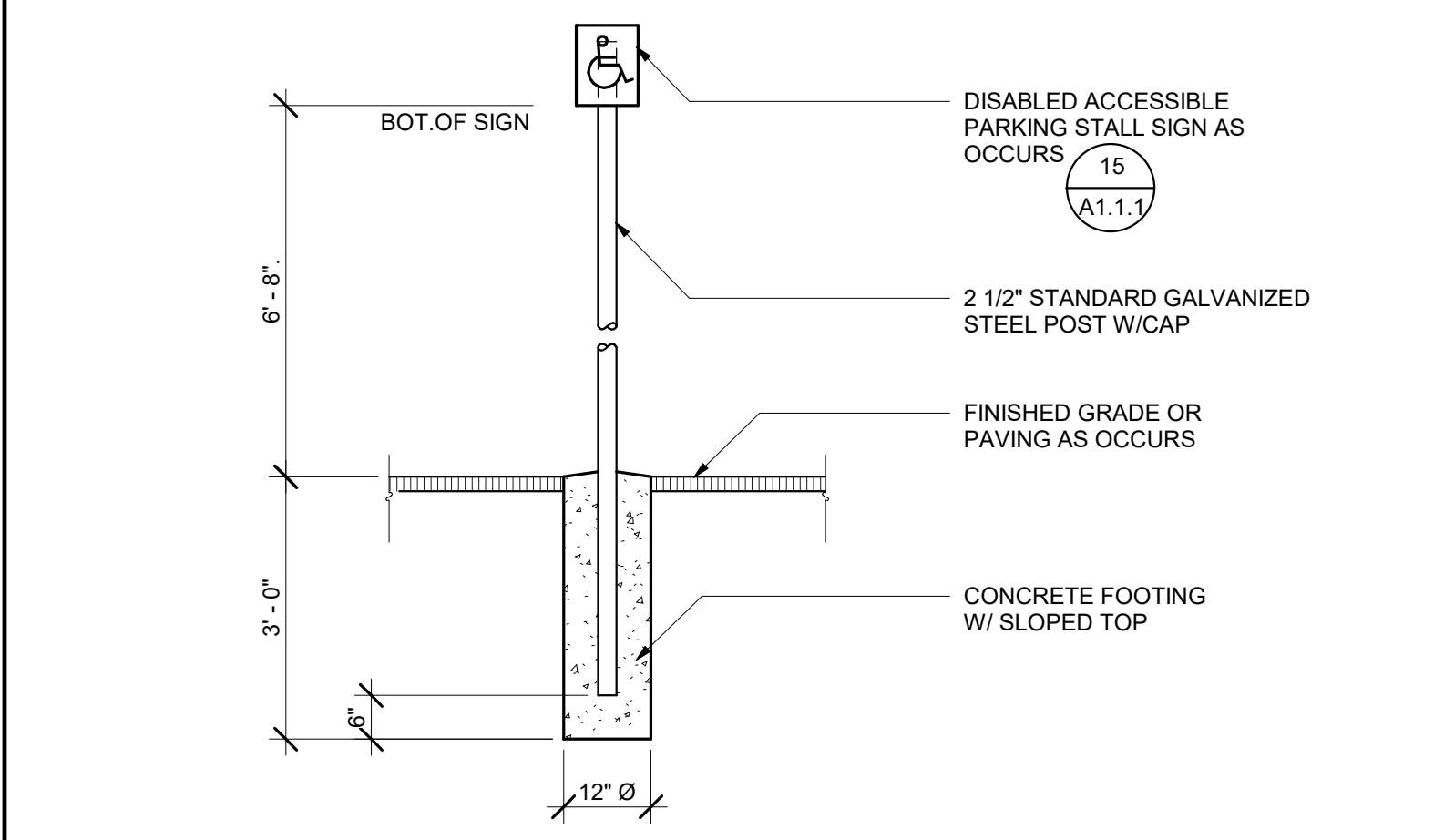
15 PARKING SIGNAGE
3" = 1'-0"



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



16 PRECAST CONCRETE BUMPER
1 1/2" = 1'-0"



12 METAL SIGNS
1/2" = 1'-0"

LEGEND

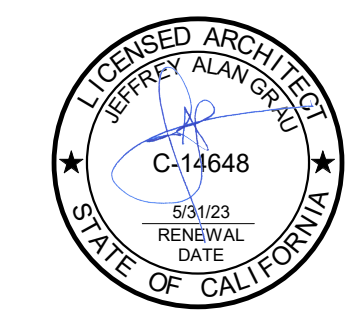
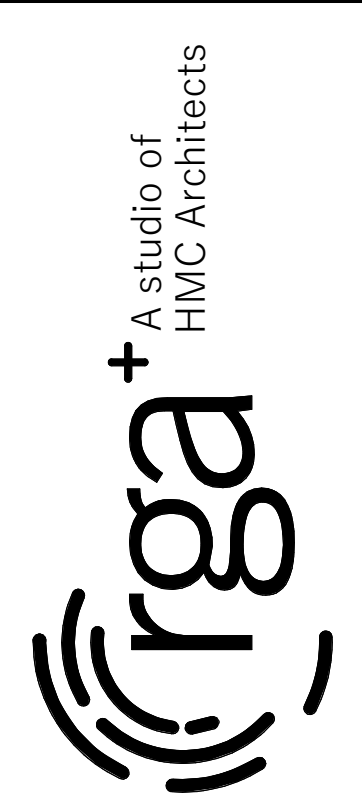
- PROPERTY LINE
- - - - UNIT DESIGNATION
- PC SHADE STRUCTURE / DEFERRED APPROVAL
- UNIT DESIGNATION
- EXISTING BUILDINGS
- EXPANSION JOINT
- CONCRETE WALK / PAVING
- CONTROL JOINT
- ASPHALT CONCRETE PAVING

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF CRACK REPAIR AT (E) HARDCOURT.
2. 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
- SN.02 ROOF OVERHANG ABOVE, PER PC SHADE STRUCTURE / DEFERRED APPROVAL
- SN.03 HSS COLUMN AND FOOTING, PER PC SHADE STRUCTURE / DEFERRED APPROVAL



**SHADE STRUCTURE AT MARK TWAIN
ELEMENTARY SCHOOL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

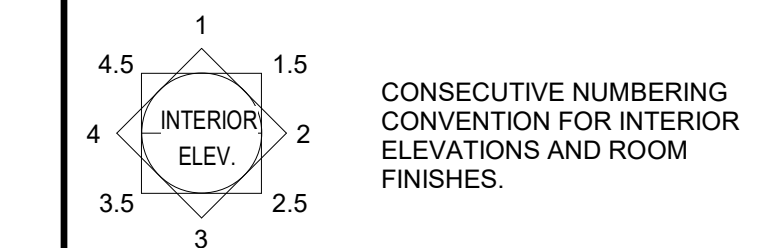
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PARTIAL SITE PLANS AND DETAILS

PROJECT NO. 1504.14
DATE: 3/22/2022
SHEET **A1.1.1**

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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

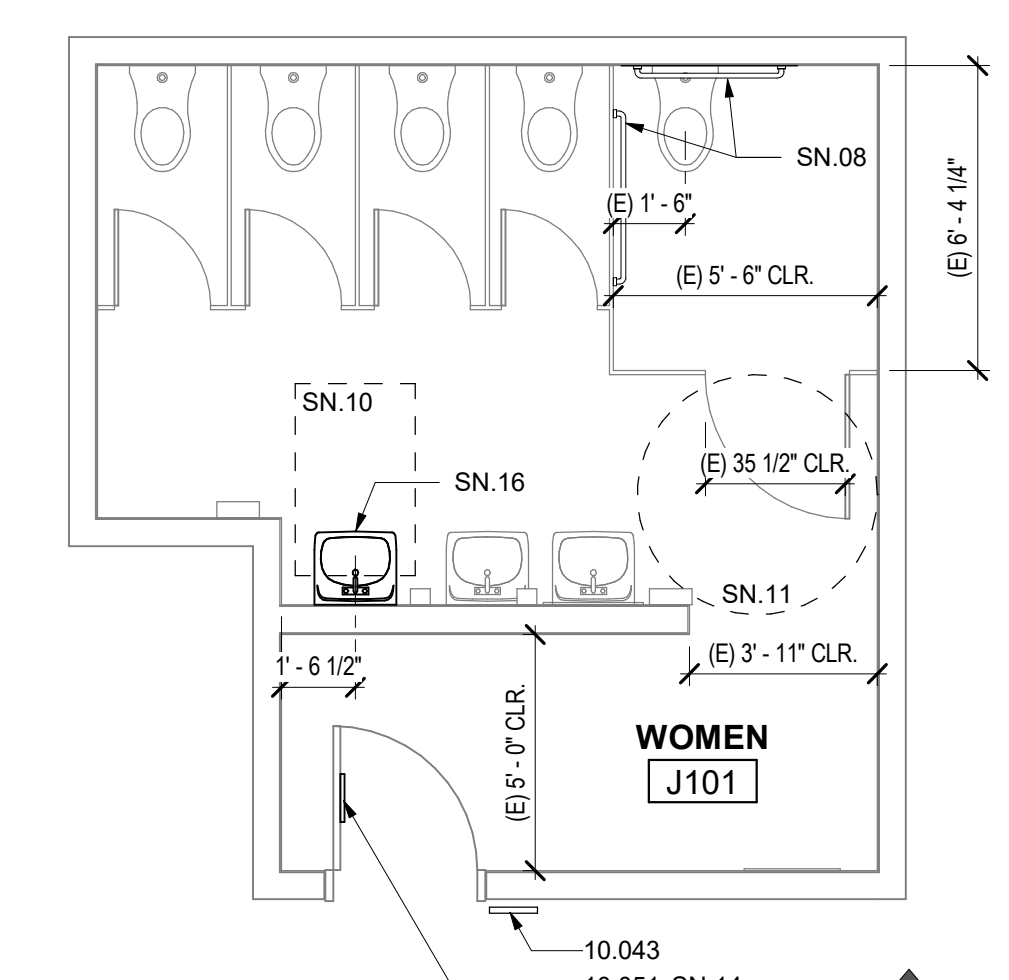
- REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
- REMOVE (E) FLUSH VALVE AT (E) WATER CLOSET
- REMOVE (E) TOILET PARTITIONS AND (E) TOILET PARTITION DOORS
- REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
- REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) GRAB BARS AND SALVAGE FOR REINSTALLATION
- REMOVE (E) DOOR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) TOILET ROOM D.O. SIGN
- REMOVE (E) TOILET ROOM DOOR SYMBOL
- REMOVE (E) WALL-MOUNTED URINAL AND SALVAGE FOR REINSTALLATION
- ABANDON AND CAP IN PLACE (E) PLUMBING, WHERE NOTED ONLY

SHEET NOTES

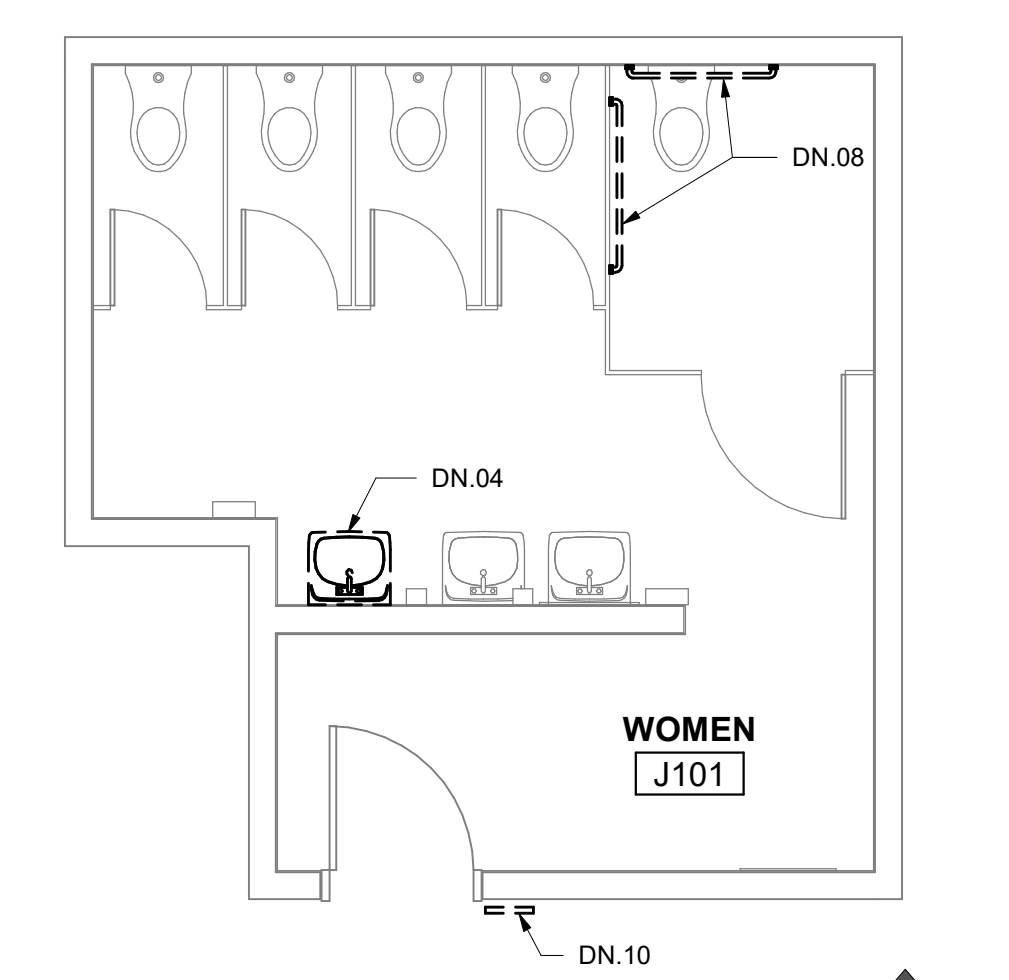
- REINSTALL (E) SALVAGED WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2. PROVIDE NEW WATER CARRIER. PROVIDE CONNECTION TO WATER LINE, WASTE LINE AND VENT.
- PROVIDE NEW FLUSH VALVE AT (E) WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2
- WRAP ALL EXPOSED PIPES WITH INSULATION
- REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. PROVIDE NEW WATER CARRIER. PROVIDE CONNECTION TO WATER LINE, WASTE LINE AND VENT.
- REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED GRAB BARS TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED DOOR. CHANGE THE DIRECTION OF THE DOOR SWING AS SHOWN.
- 30" X 48" CLEAR SPACE
- 60" DIA. TURNING CIRCLE
- SIGN TO READ "BOYS"
- SIGN TO READ "GIRLS"
- SIGN TO READ "WOMEN"
- SIGN TO READ "MEN"
- 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 WALL-MOUNTED URINAL TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.

KEYNOTES

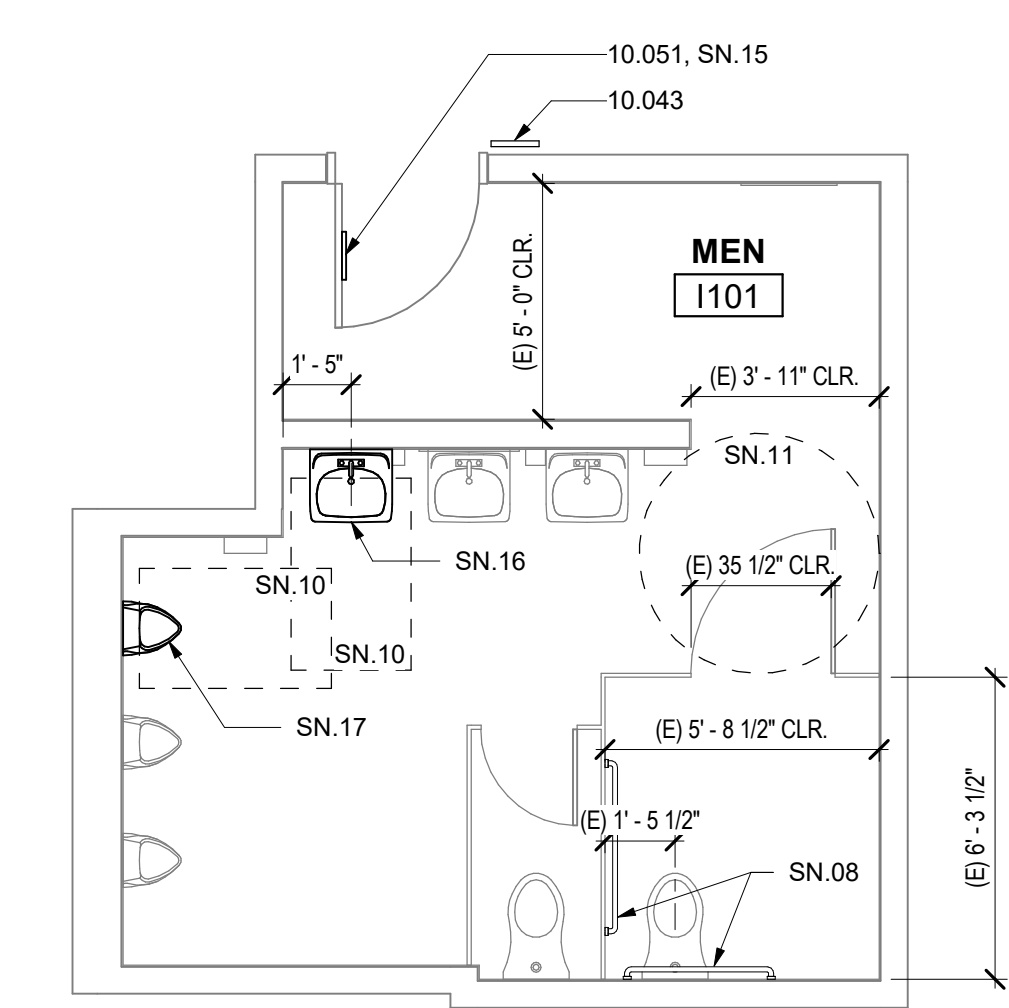
- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
- 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
- 10.090 COMPOSITE TOILET COMPARTMENT



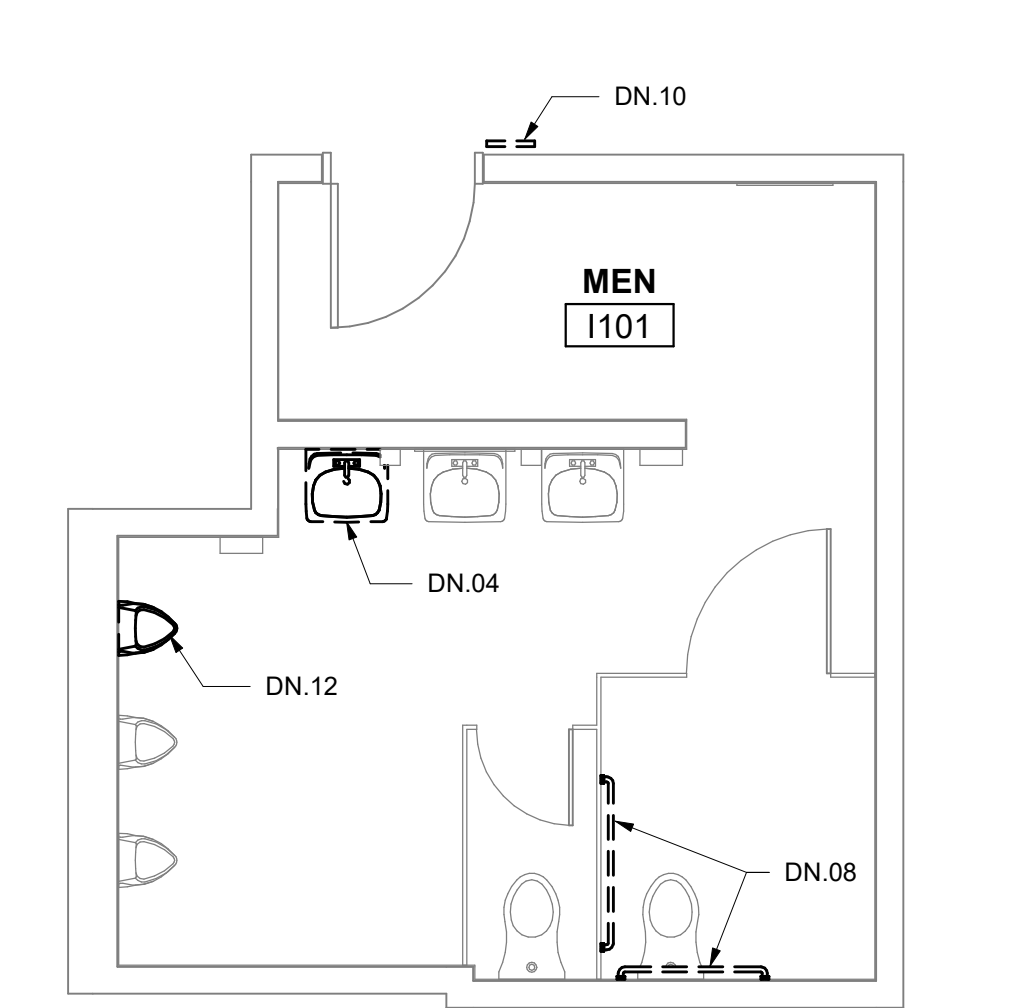
6 WOMEN - IMPROVEMENT
1/4" = 1'-0" ADULT HEIGHT



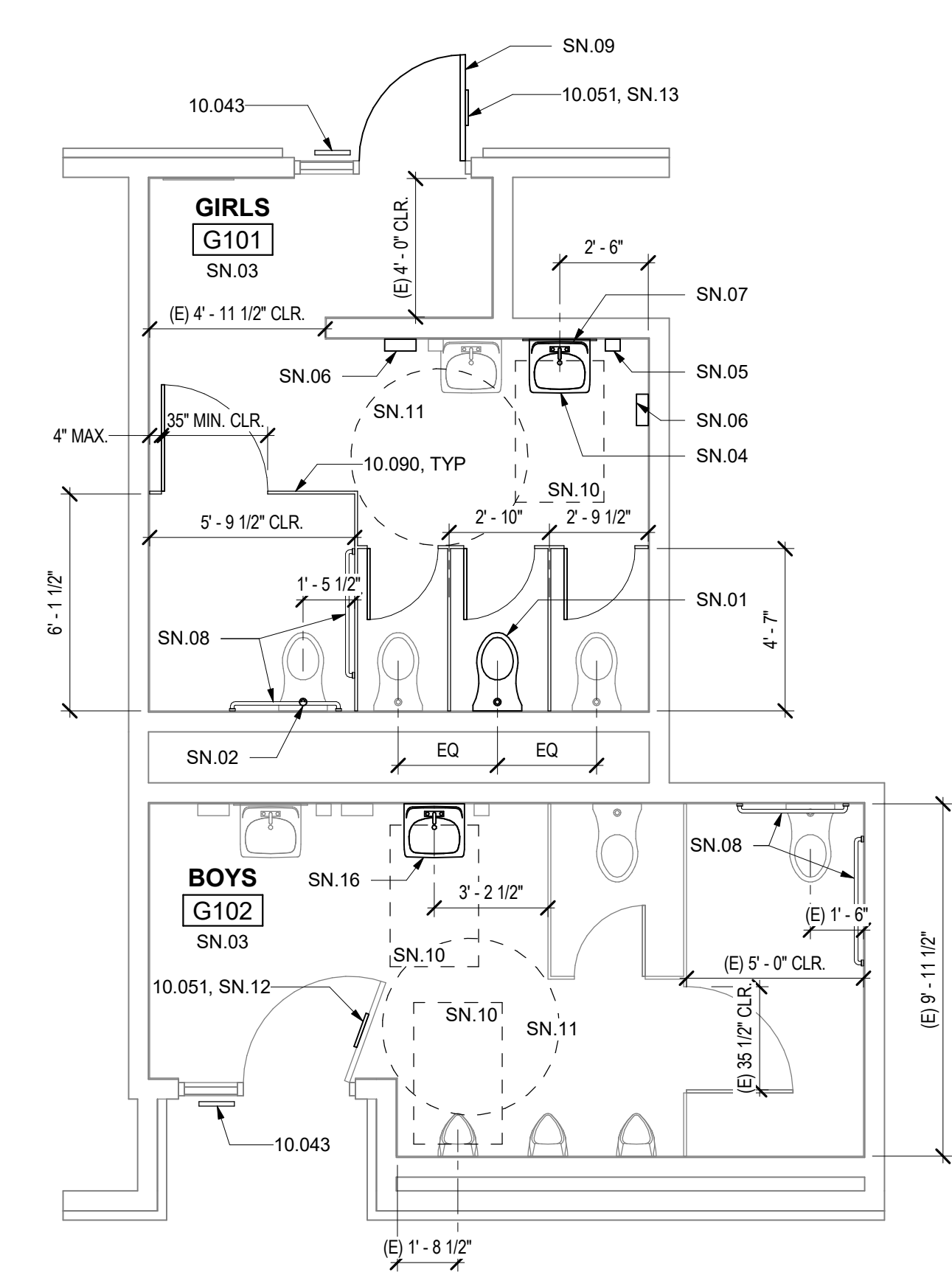
5 WOMEN - DEMOLITION
1/4" = 1'-0" ADULT HEIGHT



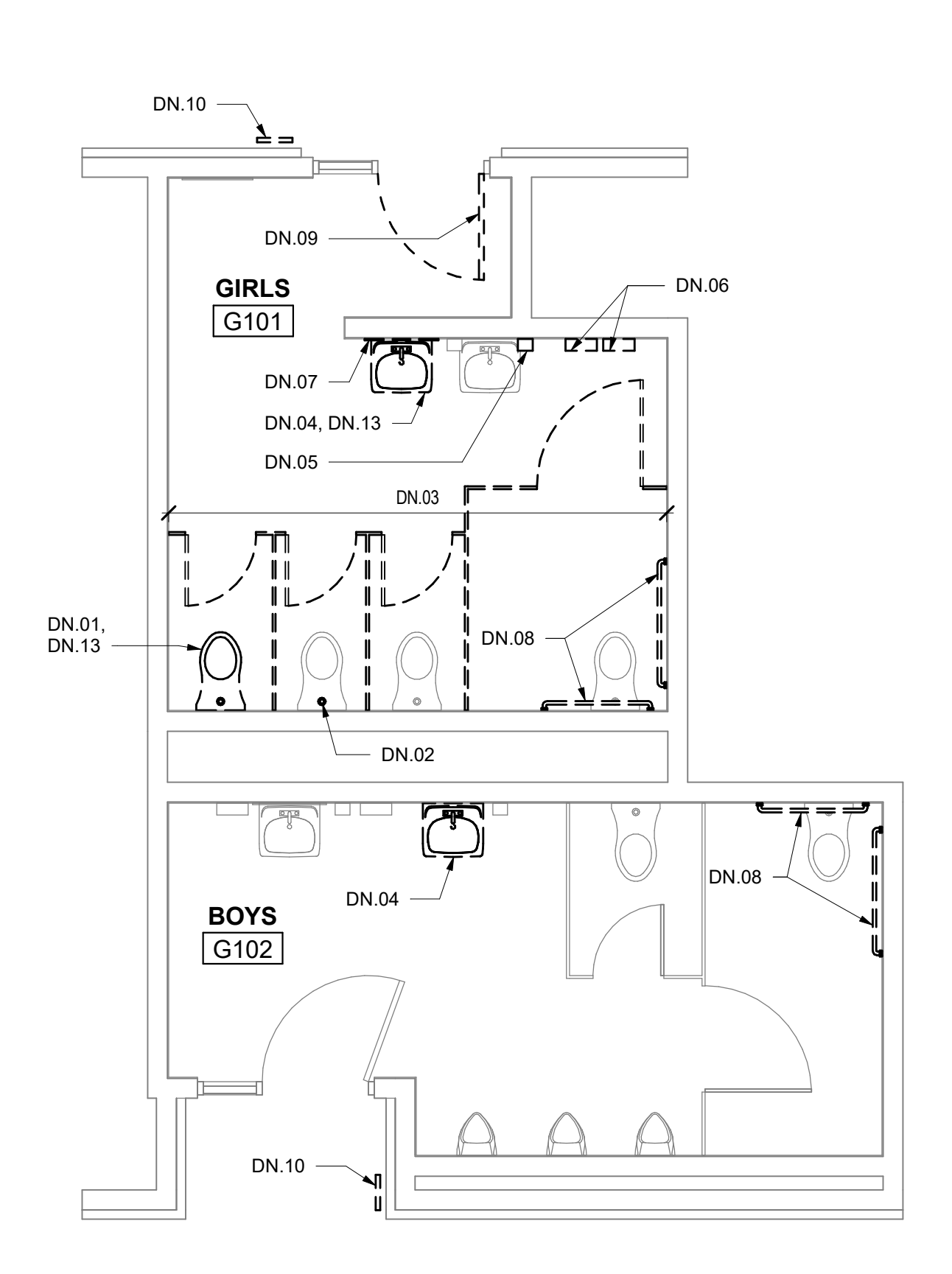
4 MEN - IMPROVEMENT
1/4" = 1'-0" ADULT HEIGHT



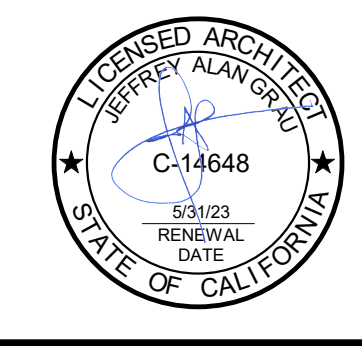
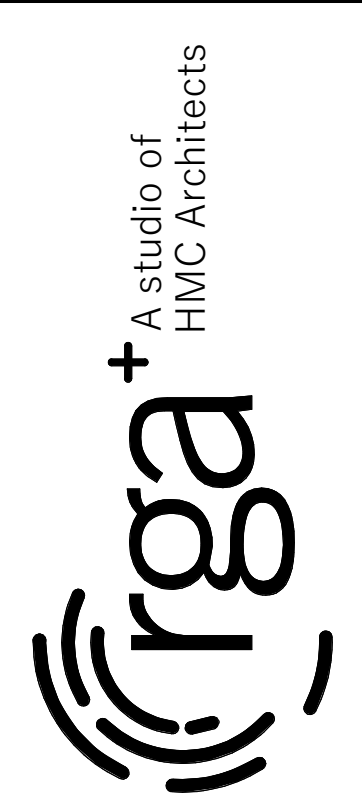
3 MEN - DEMOLITION
1/4" = 1'-0" ADULT HEIGHT



2 GIRLS AND BOYS - IMPROVEMENT
1/4" = 1'-0" ADULT HEIGHT



1 GIRLS AND BOYS - DEMOLITION
1/4" = 1'-0" ADULT HEIGHT



SHADE STRUCTURE AT MARK TWAIN ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

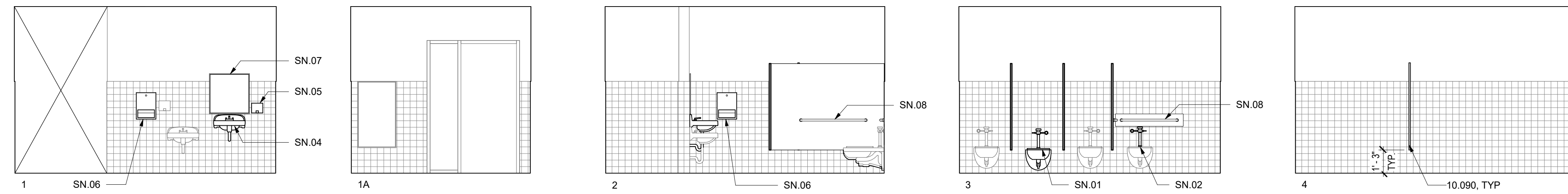
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TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS

UNITS G, I & J

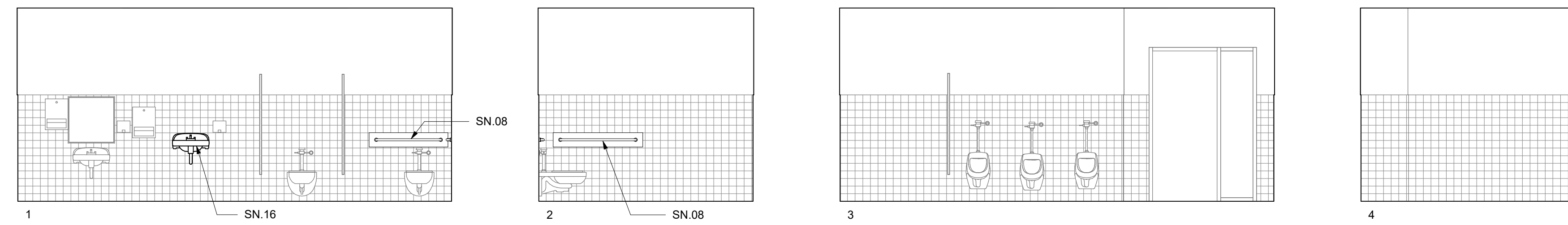
PROJECT NO.	1504.14
DATE:	3/22/2022
SHEET	A2.1.1

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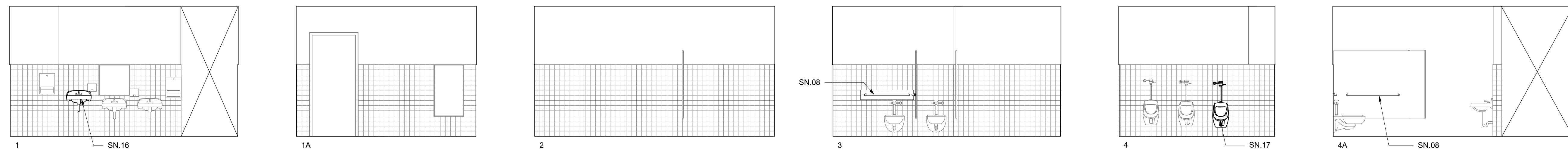
G101 - GIRLS
1/4" = 1'-0"

ADULT HEIGHT



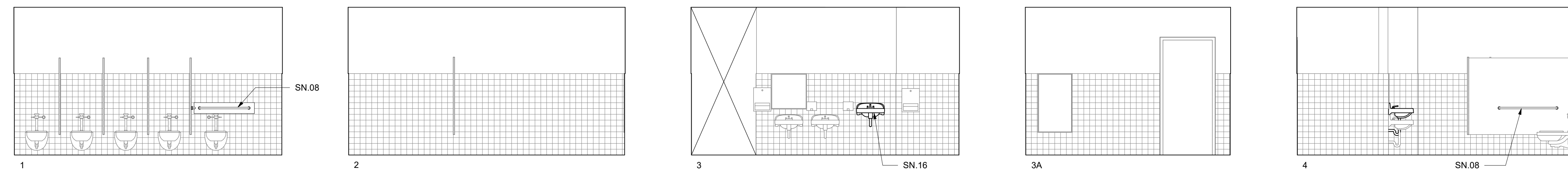
G102 - BOYS
1/4" = 1'-0"

ADULT HEIGHT



I101 - STAFF
1/4" = 1'-0"

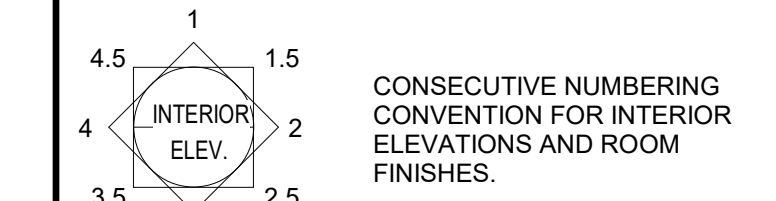
ADULT HEIGHT



J101 - STAFF
1/4" = 1'-0"

ADULT HEIGHT

LEGEND



GENERAL NOTES

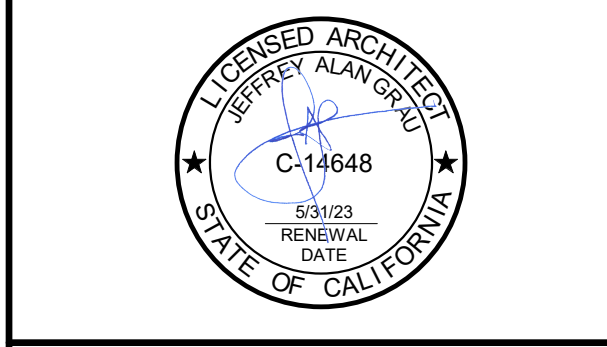
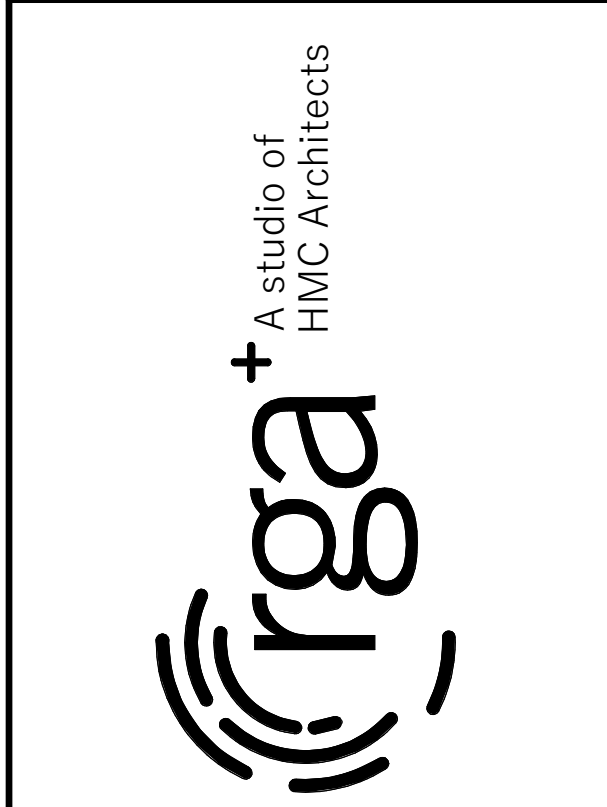
- FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
- PROTECT ALL ADJACENT SURFACES, ITEMS AND FINISHES NOT NOTED TO BE DEMOLISHED.
- EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR 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.

SHEET NOTES

- SN.01 REINSTALL (E) SALVAGED WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2. PROVIDE NEW WATER CARRIER. PROVIDE CONNECTION TO WATER LINE, WASTE LINE AND VENT.
- SN.02 PROVIDE NEW FLUSH VALVE AT (E) WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2
- SN.03 NOT USED
- SN.04 REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. PROVIDE NEW WATER CARRIER. PROVIDE CONNECTION TO WATER LINE, WASTE LINE AND VENT.
- SN.05 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
- SN.06 REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2
- SN.07 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
- SN.08 REINSTALL (E) SALVAGED GRAB BARS TO COMPLY WITH A0.2
- SN.09 NOT USED
- SN.10 NOT USED
- SN.11 NOT USED
- SN.12 NOT USED
- SN.13 NOT USED
- SN.14 NOT USED
- SN.15 NOT USED
- SN.16 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.
- SN.17 REINSTALL (E) SALVAGED WALL-MOUNTED URINAL TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.

KEYNOTES

- 10.090 COMPOSITE TOILET COMPARTMENT



**SHADE STRUCTURE AT MARK TWAIN
ELEMENTARY SCHOOL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

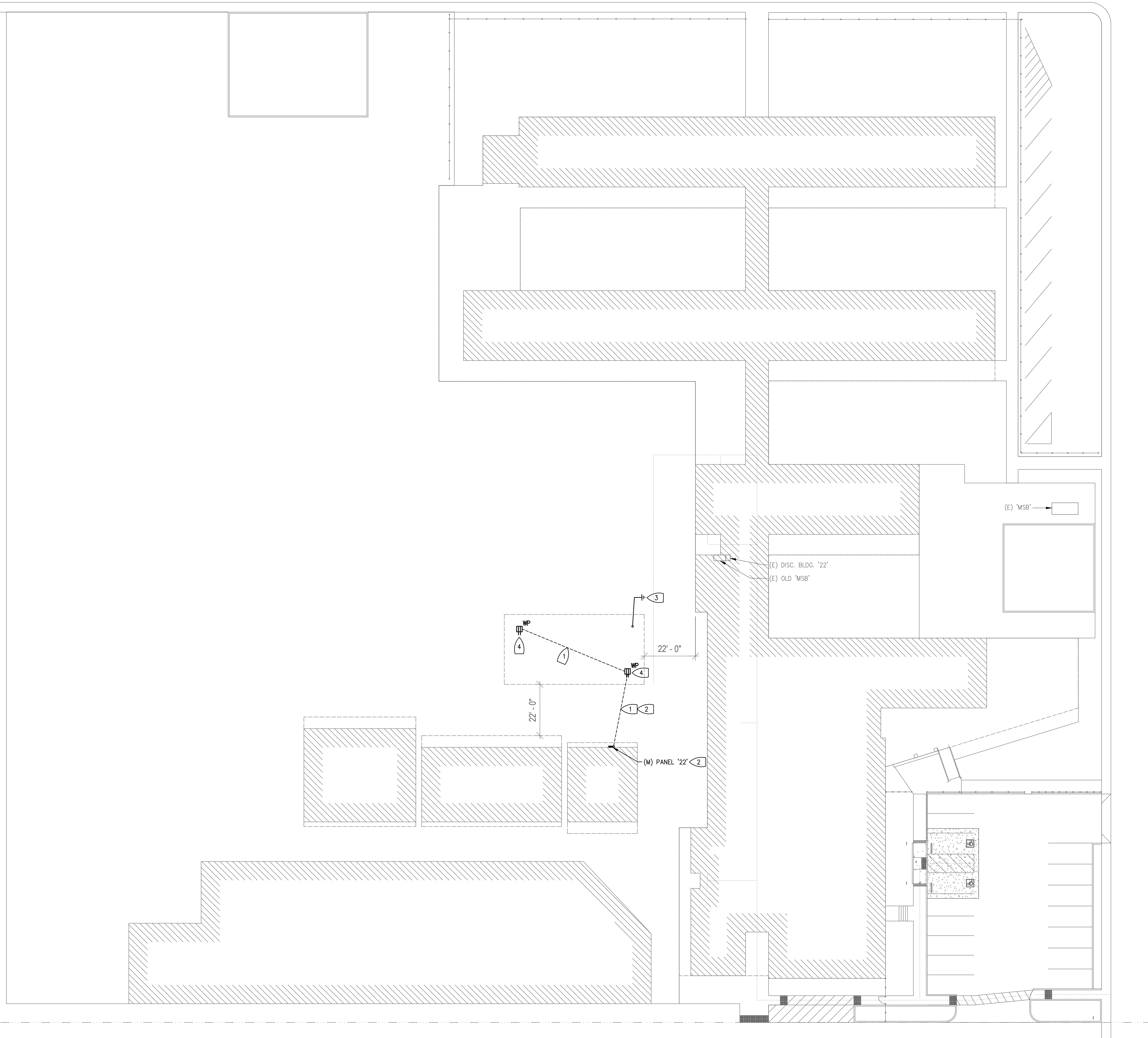
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INTERIOR ELEVATIONS

UNITS G, I & J	
PROJECT NO.	1504.14
DATE:	3/22/2022
SHEET	A5.1.1

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22ND AVENUE

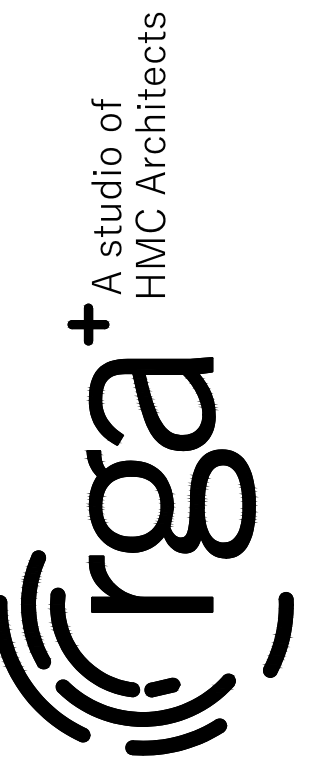


SHEET NOTES:

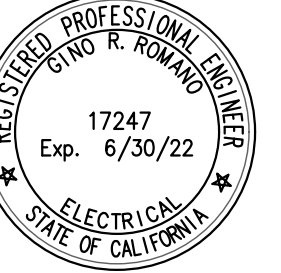
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

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. DROP CONDUIT TO BELOW ASPHALT AND PROVIDE CHRISTY NO PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. 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**.
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.



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PLOT DATE: 3/17/2022

58TH STREET

SHADE STRUCTURE AT MARK TWAIN
ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

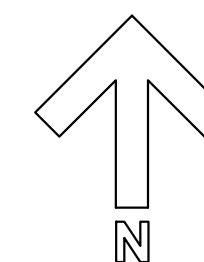
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**SITE PLAN -
ELECTRICAL**

PROJECT NO. 1504.14
DATE: 3/21/2022
SHEET

E1.1

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



MODIFIED

PANEL:	MANF: WESTINGHOUSE	MAIN: 100/2	SERVICE:	MOUNTING:	ENCLOSURE:	10K AIC	
22	TYPE: N12 1224RT	BUSS: 100 AMP	120 /208 VOLT	SURFACE	WIDTH:	100% NEUT.	
	FEEDER RATING:	200 AMP	1 Ø, 3W	DEPTH:			
AØ	BØ	DIRECTORY				AØ	BØ
		100/2	1	2	DO NOT REMOVE THIS K.O.		
			3	4			
1000		20/4	5	6	20/1 REC	1200	
	PHOTO CELL	20/4	7	8	20/1 REC	1200	
	A LIGHT	20/4	9	10	20/1 24 HR TIMER	1000	
	B LIGHT	20/4	11	12	PFB SPACE		
360	RECEPTS - SHADE STRUCT. [6]	PFB	13	14	60/2 HVAC	4160	
	SPACE	PFB	15	16		4160	
	SPACE						
	NEW LOAD	SERIES/PHASES		PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND	
		AMPS	AMPS	AMPS	VA	LOAD	
AØ =	7360 VA	61.3	6.8	8.5	89.8 A	15180 VA	
BØ =	5720 VA	47.7	7.2	9.0	56.7 A	69.8 AMPS	

- NOTES:
1. FEEDER CONDUCTORS CONSIST OF 3#1 + 1#6 GND CU
 2. MAIN BREAKER AND BRANCH BREAKERS ARE WESTINGHOUSE TYPE BR
 3. PROVIDE TYPE-WRITTEN PANEL DIRECTORY
 4. ALL NEW BREAKERS TO MATCH EXISTING TYPES
 5. PROVIDE NEW 20 AMP, SINGLE-POLE BREAKER

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.

KEYED NOTES:

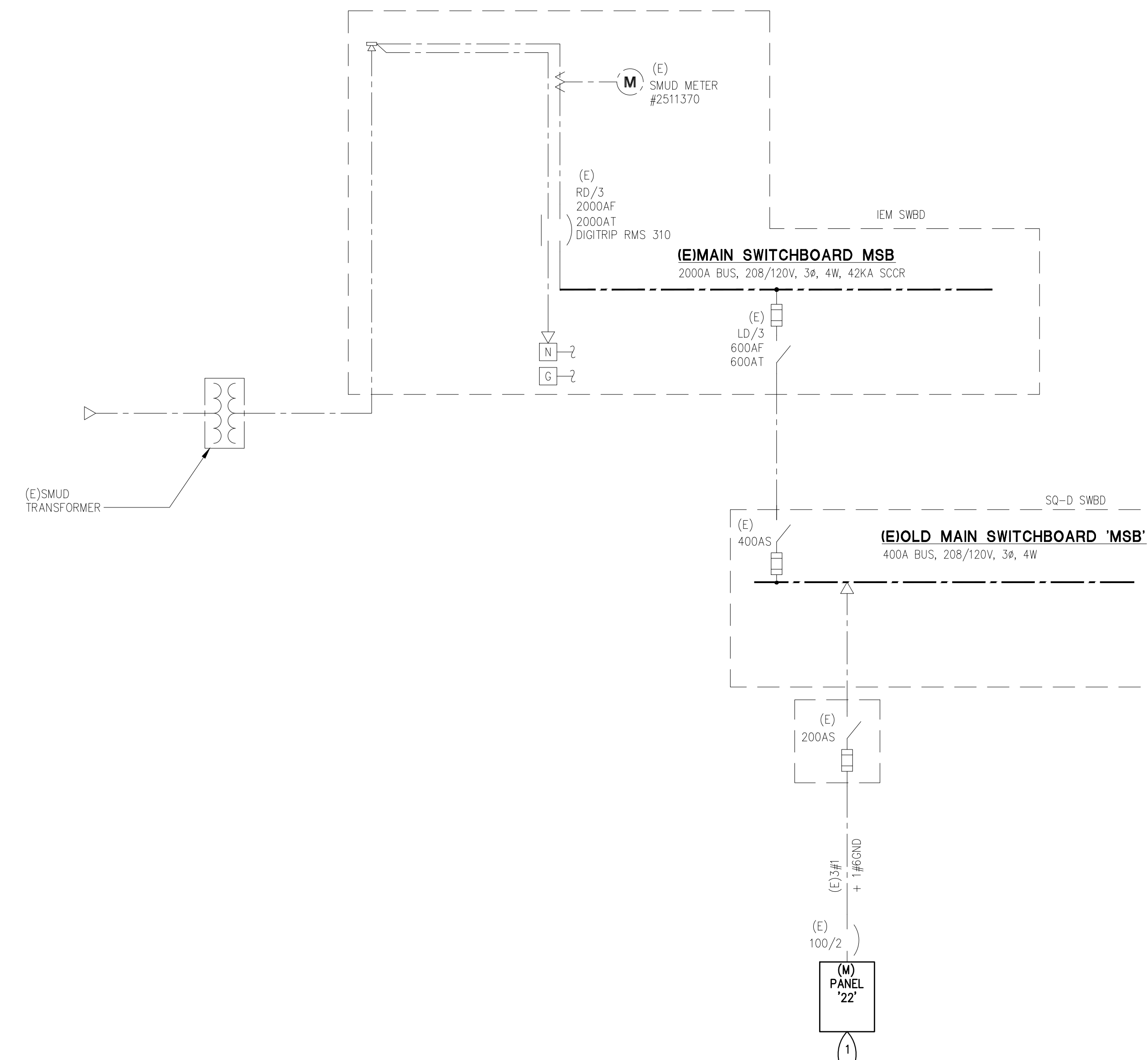
1. MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.

Voltage Drop Calculations Copper

Job Name: Mark Twain Elementary School - Shade Structure Job #: 22.020
Date: 3/10/2022

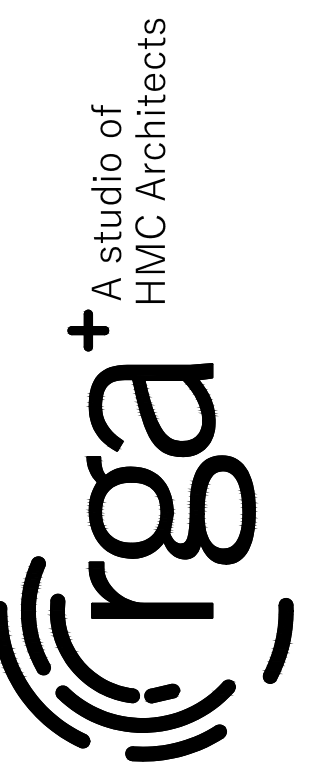
VOLTAGE: 120 PHASE: 1 POWER FACTOR: 80% CONDUIT: Steel

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	0.4	119.76	40	40	1	3.00	10	1995	0.24	0.20%
RECEPT-2	1.5	0.2	119.59	56	96	1	1.50	10	1995	0.41	0.34%

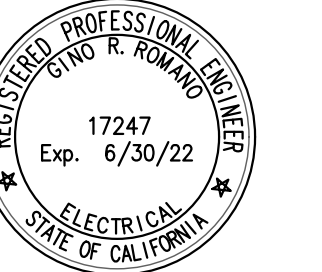


1 ONE LINE DIAGRAM

SCALE: NONE



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT MARK TWAIN
ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

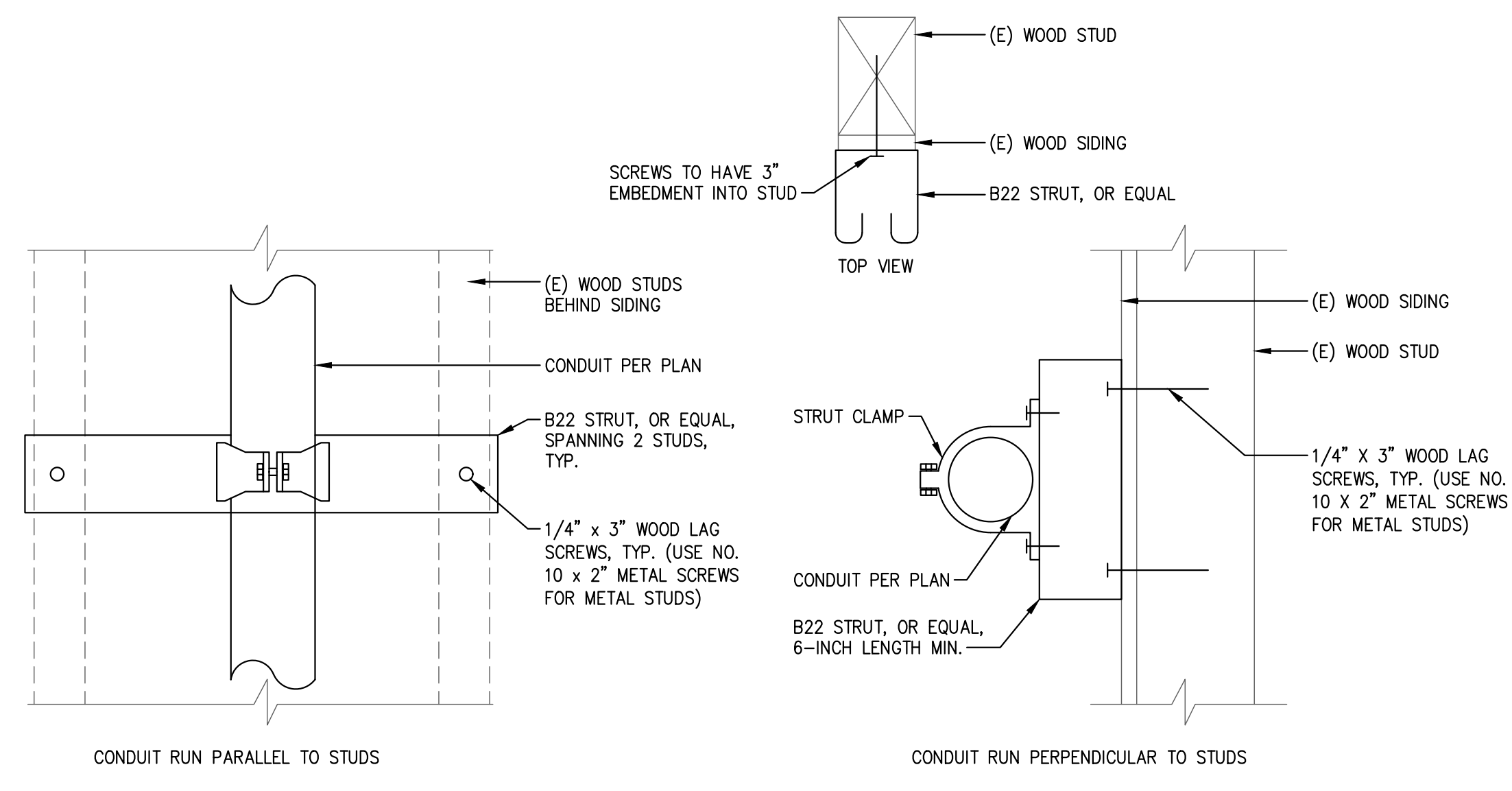
Revision

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ONE LINE DIAGRAM

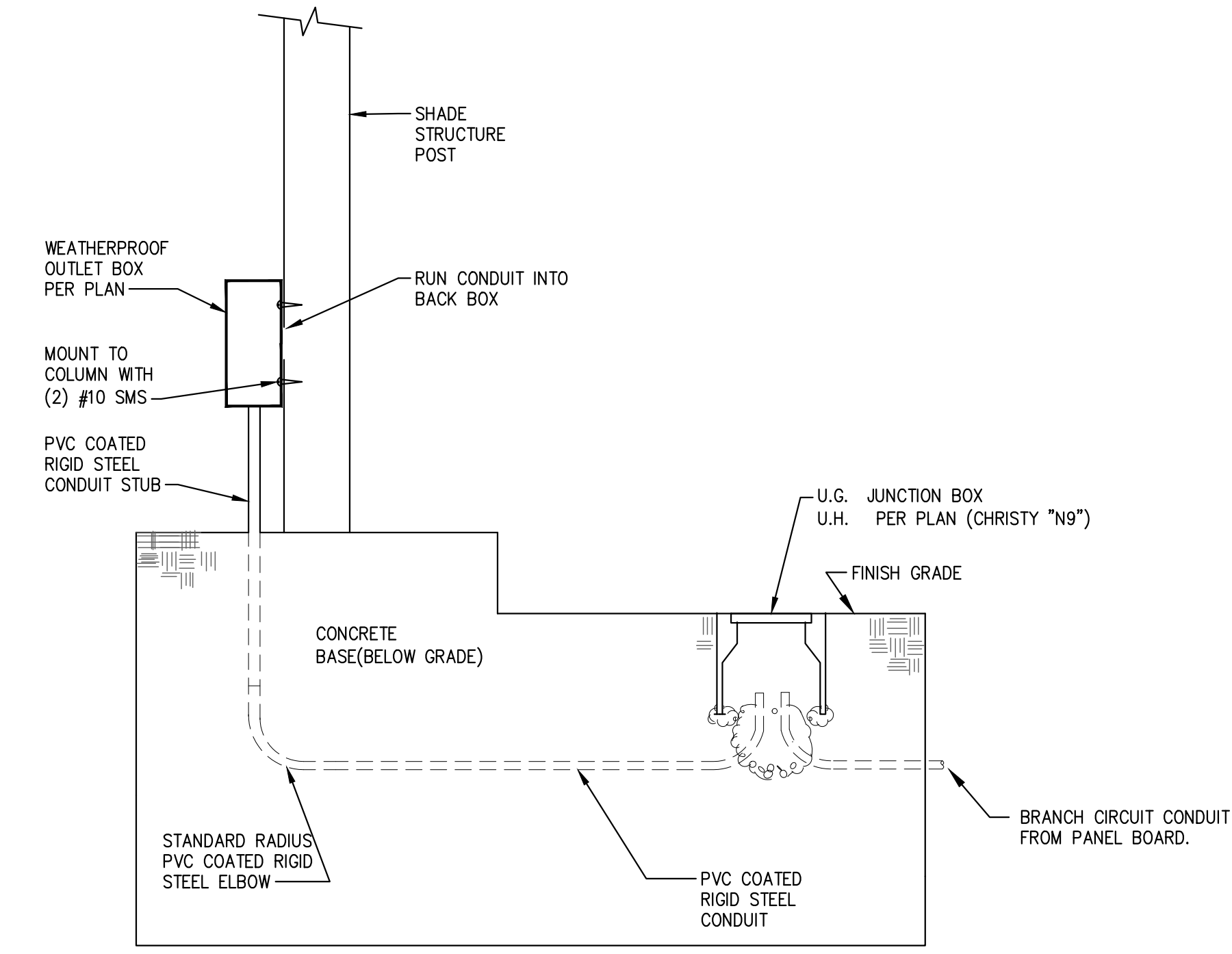
PROJECT NO. 1504.14
DATE: 3/21/2022
SHEET

E2.1

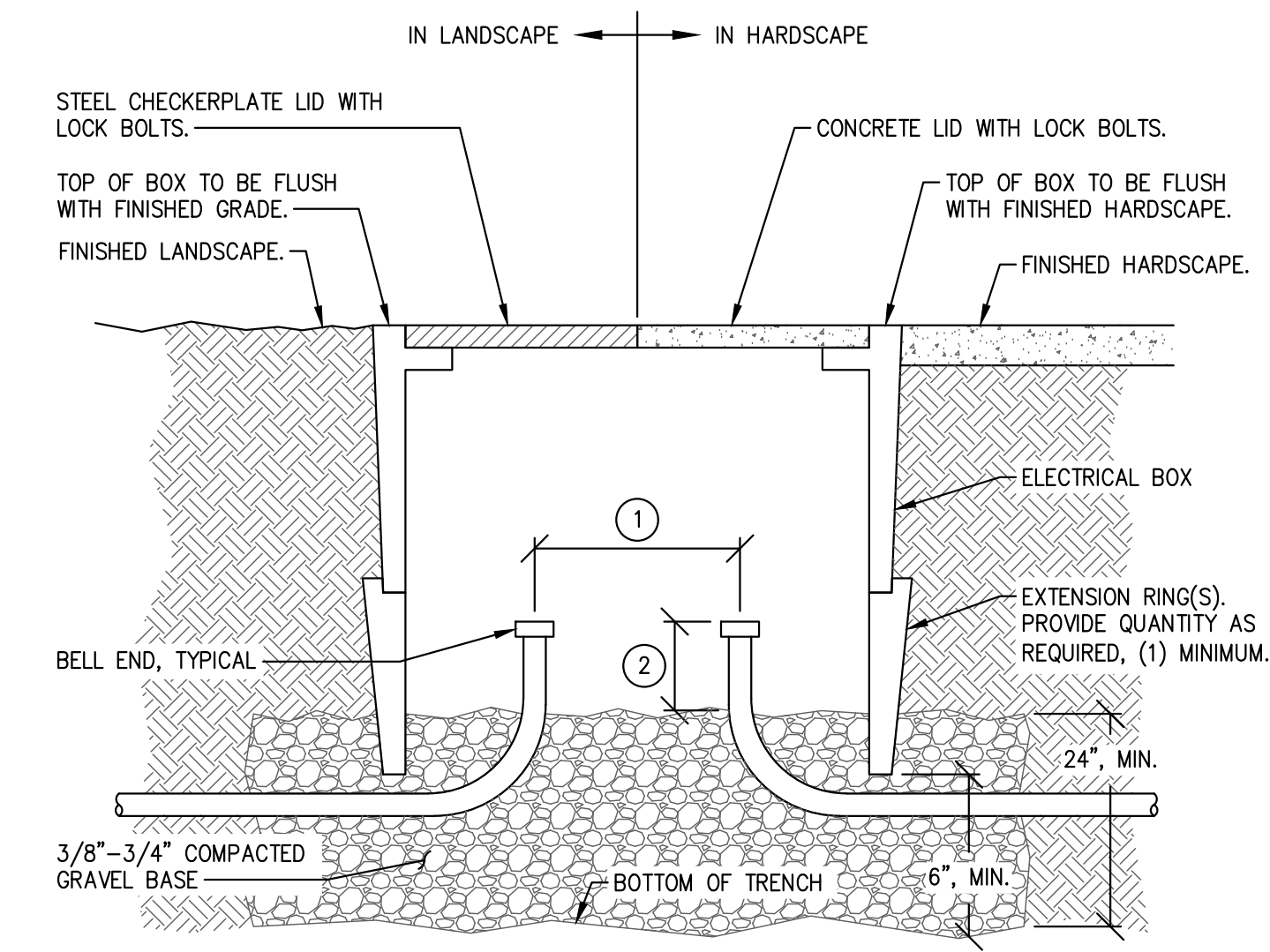


- NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 2. PERFORATED STRIP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

1 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

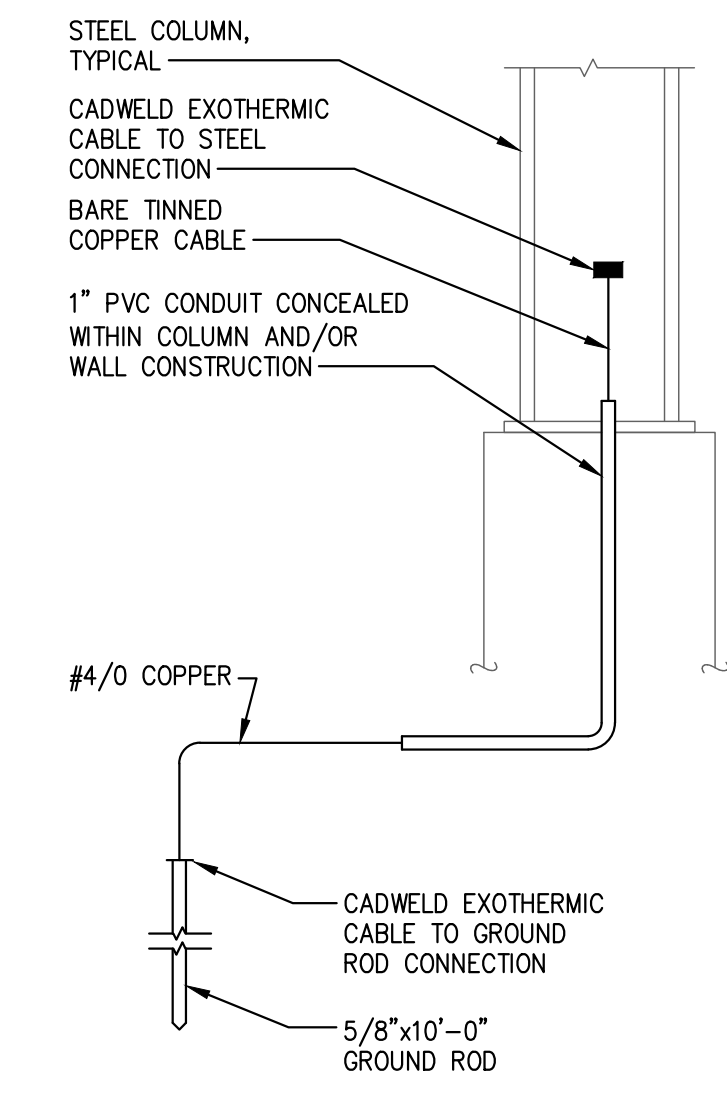


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



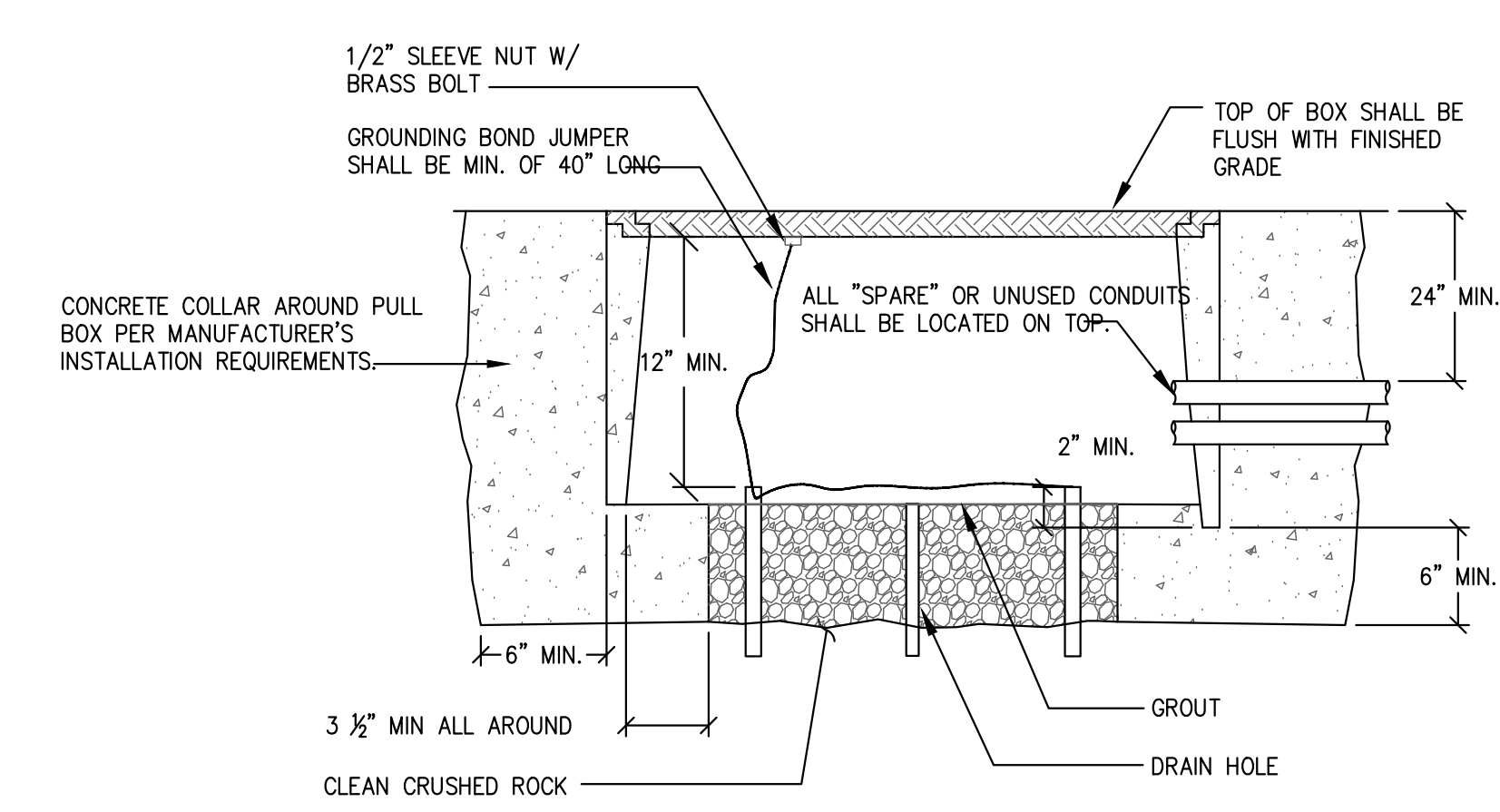
- KEY NOTES:
1. WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 2. TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX
SCALE: NONE



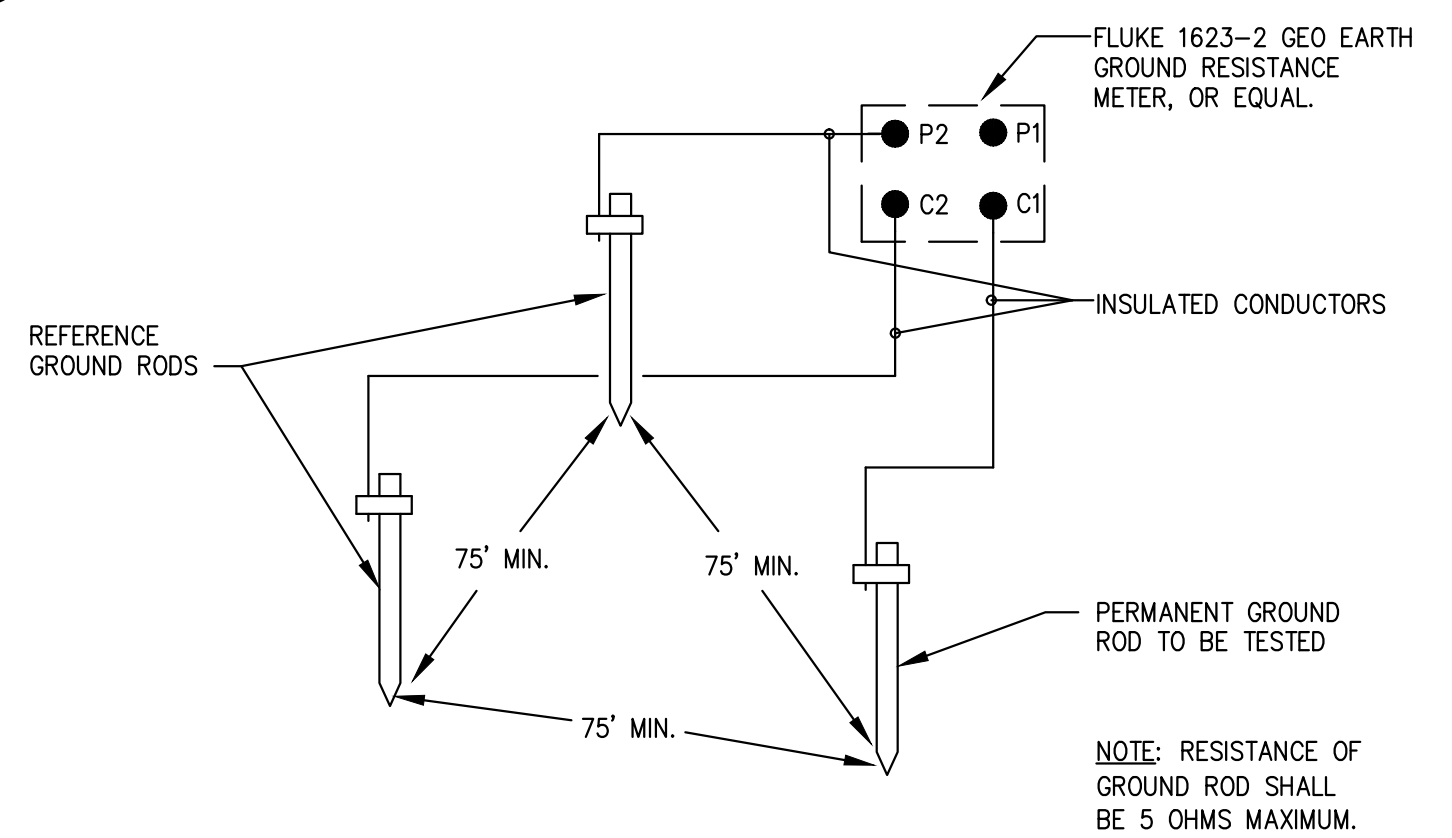
- NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE



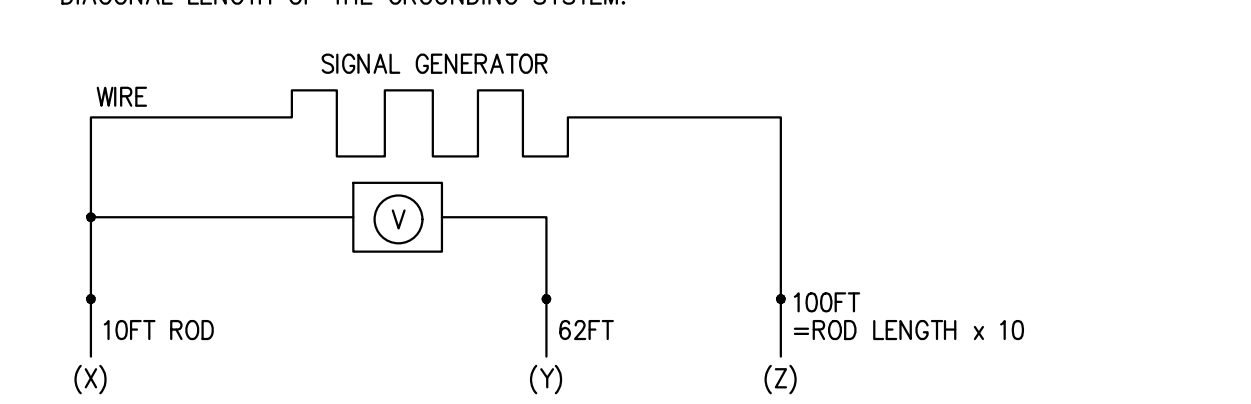
- NOTES:
1. HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 2. PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 3. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4" TERMINATORS ARE PROVIDED CONTRACTOR SHALL PROVIDE CONDUIT REDUCERS TO MATCH SITE CONDUIT SIZE REQUIREMENTS.
 4. FOR ALTERNATE STYLE PULLBOXES CONTRACTOR SHALL FIELD CORE DRILL ALL CONDUIT ENTRIES 2" DIA AND SMALLER.
 5. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TRAFFIC RATED PULL BOX
SCALE: NONE



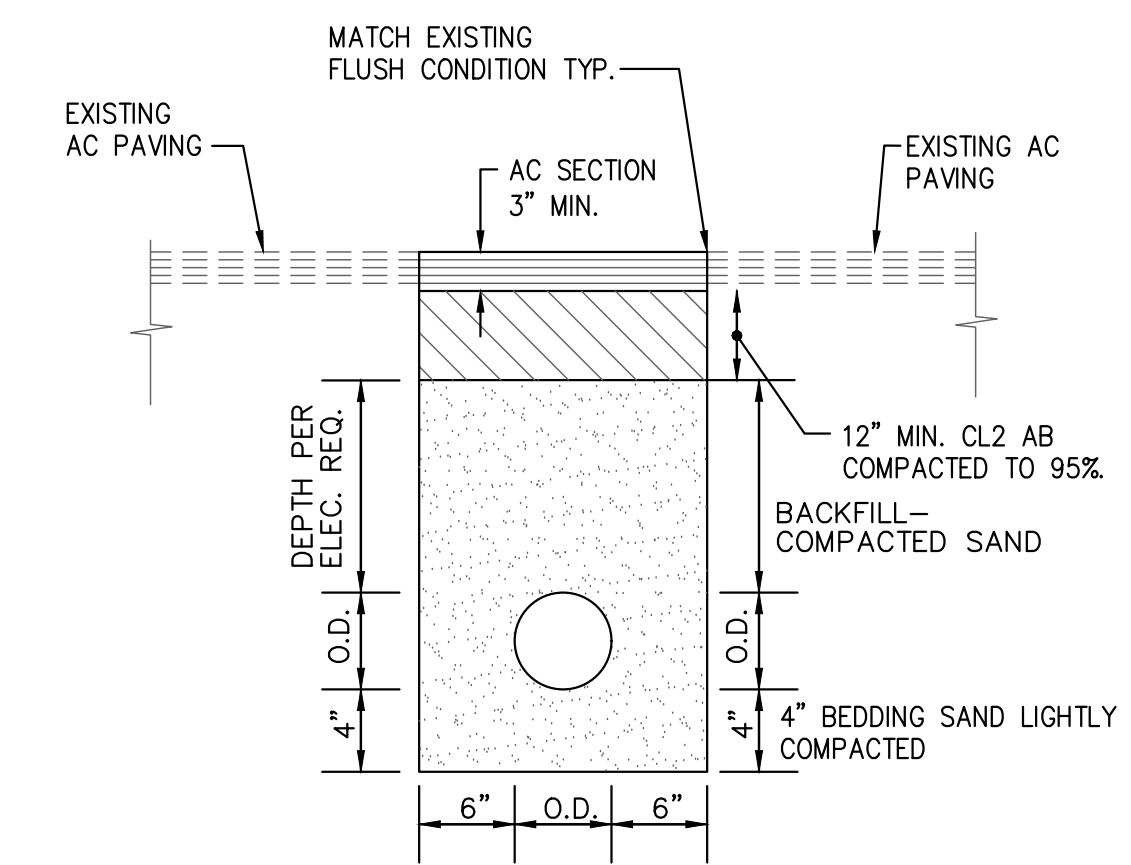
- FALL OF POTENTIAL TEST METHOD NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
 2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
 3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
 4. POWER DISTRIBUTION UNITS OR PANELBOARDS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

FALL OF POTENTIAL 3-POINT TEST: GROUND RING, I.E. 10 BY 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.

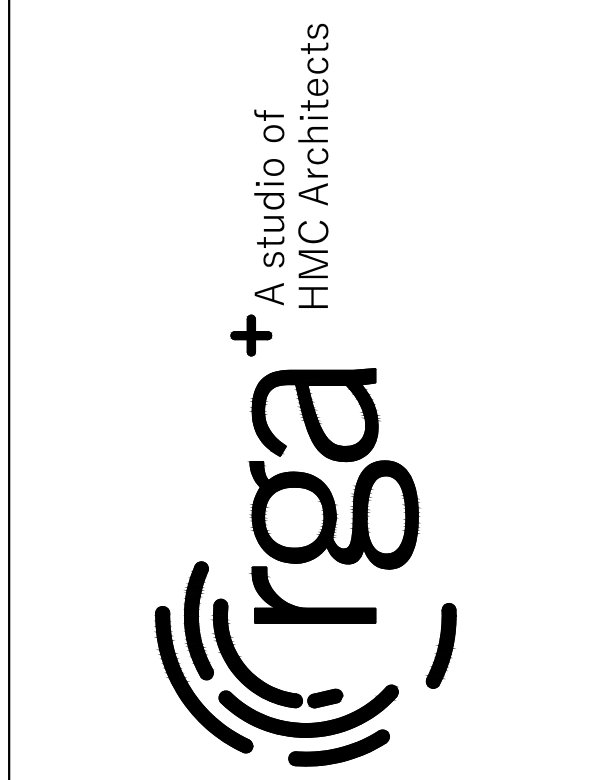


AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED $R=V/I$. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, ... 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE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

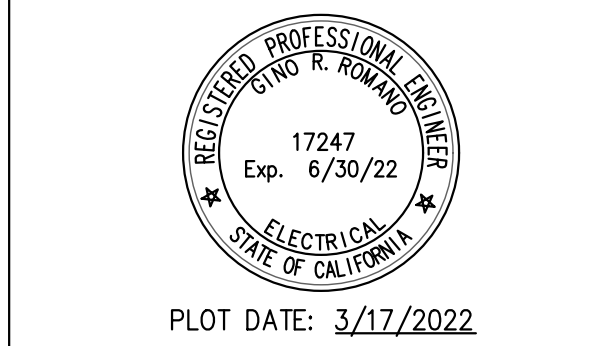
6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT MARK TWAIN ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

DETAILS

PROJECT NO. 1504.14
DATE: 3/21/2022
SHEET E3.1

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

Table with 2 columns: 1. TYPE, 2. PERFORMED BY. Rows include Continuous, Periodic, and Test inspection types and their corresponding performed by roles (CE, LOR, PI, SI).

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.6: 7. CAST-IN-PLACE CONCRETE. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include material verification, reinforcement, and concrete testing.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

Table 1705A.2.1: 23. ANCHOR BOLTS AND ANCHOR RODS. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include anchor bolts and threaded rods.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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

Table 1705A.6: 1. GENERAL. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Row includes verification of site preparation.

Table 1705A.6: 2. SOIL COMPACTION AND FILL. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include soil classification and material verification.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

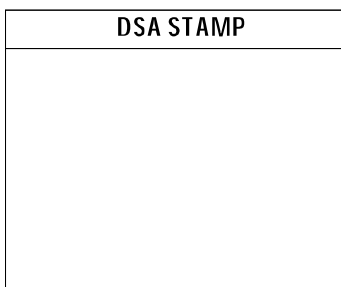
Table 1705A.3: 17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include material verification and testing.

Table 1705A.3: 18. HIGH-STRENGTH BOLTS: RCSC 2. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Row includes material verification and testing.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

Signature lines for Architect or Engineer in general responsible charge, Name of Structural Engineer, and Signature of Architect or Structural Engineer.

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.



DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.8: 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS). Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Row includes compaction testing.

Table 1705A.8: 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS). Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include pier inspection and concrete pier testing.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.2.1: b. Test high-strength bolts, nuts and washers. Columns: Test, LOR, Code References and Notes.

Table 1705A.2.1: d. Pretensioned and slip-critical connections. Columns: Test, LOR, Code References and Notes.

Table 1705A.2.5: 19. WELDI. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include verification of materials and welder qualifications.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

- 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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.8: 5. RETAINING WALLS. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include placement, compaction, and inspection of backfill.

Table 1705A.8: 6. OTHER SOIL. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include soil improvements and inspection of soil improvements.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3: 19.1 SHOP WELDING. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include inspection of groove welds, fillet welds, and reinforcement steel.

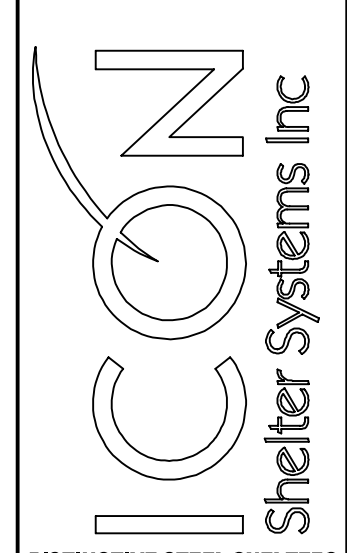
Table 1705A.3.1: 23. ANCHOR BOLTS AND ANCHOR RODS. Columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Rows include anchor bolts and threaded rods.

Table with 2 columns: ICON STD, RH/DSA-PC. Rows include DRAWN BY (ANGEL), DATE (4/2/2021), REV, and REV DATE.



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

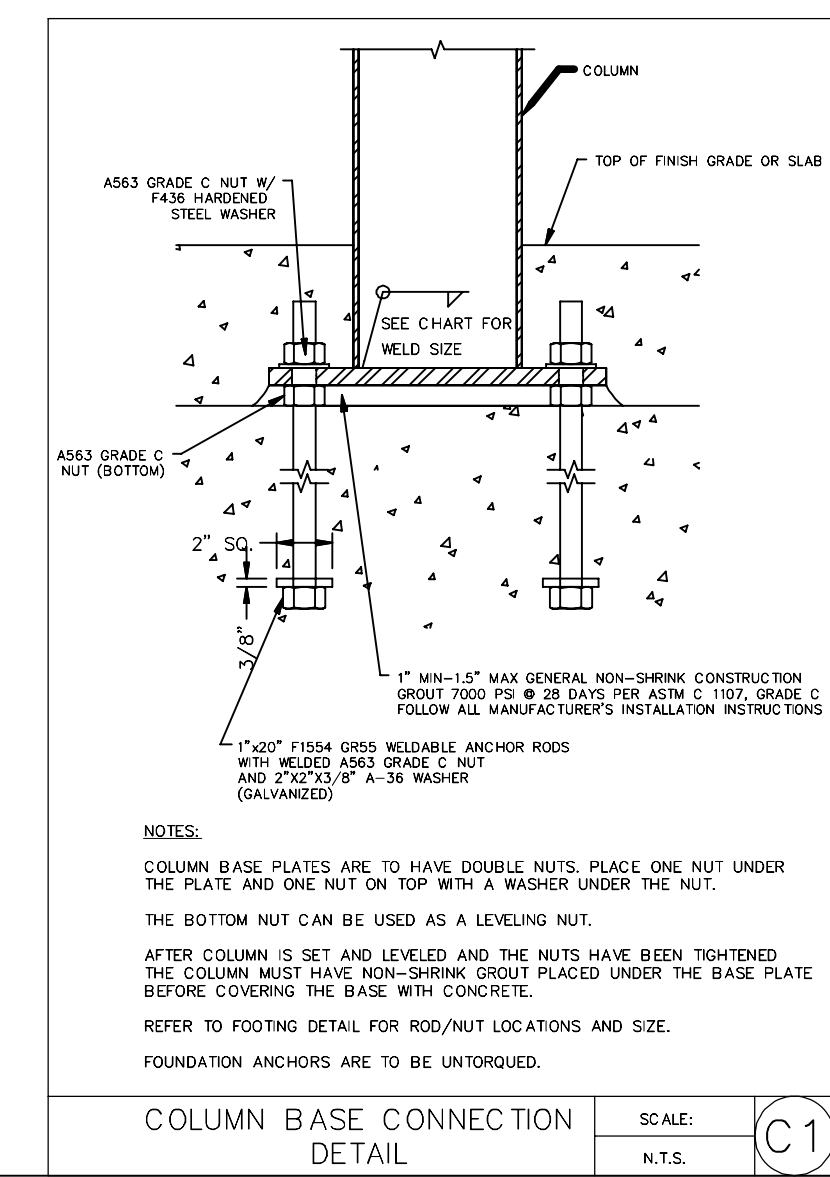
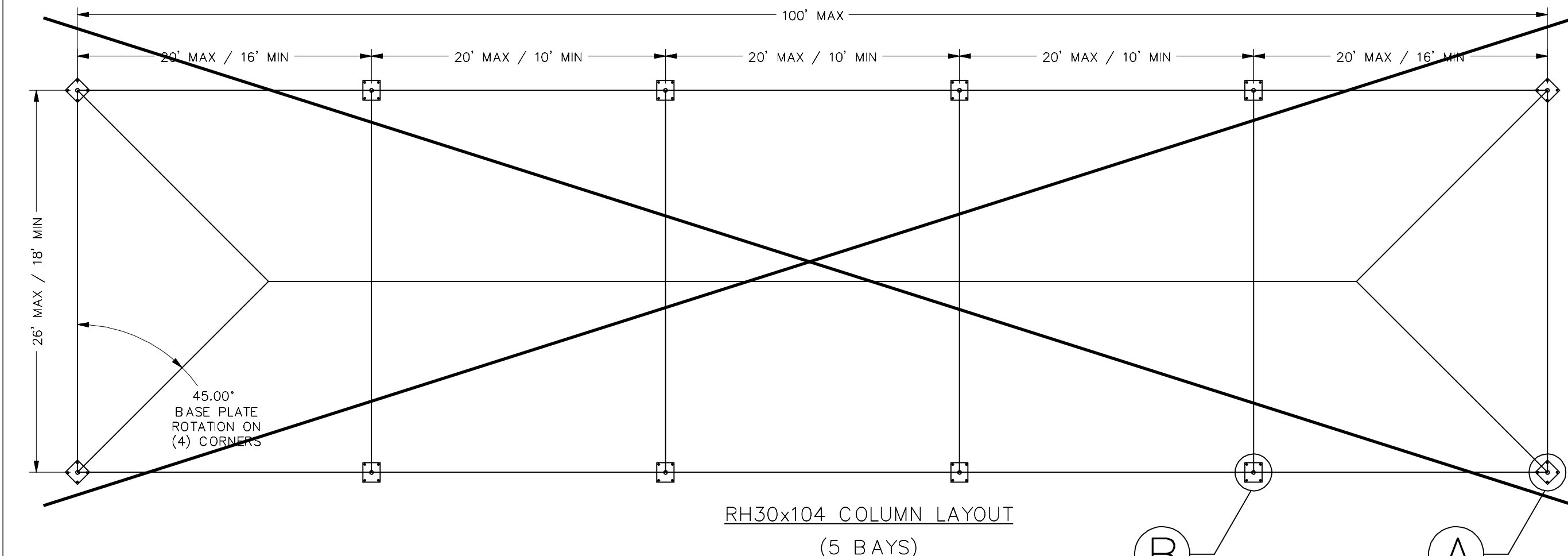
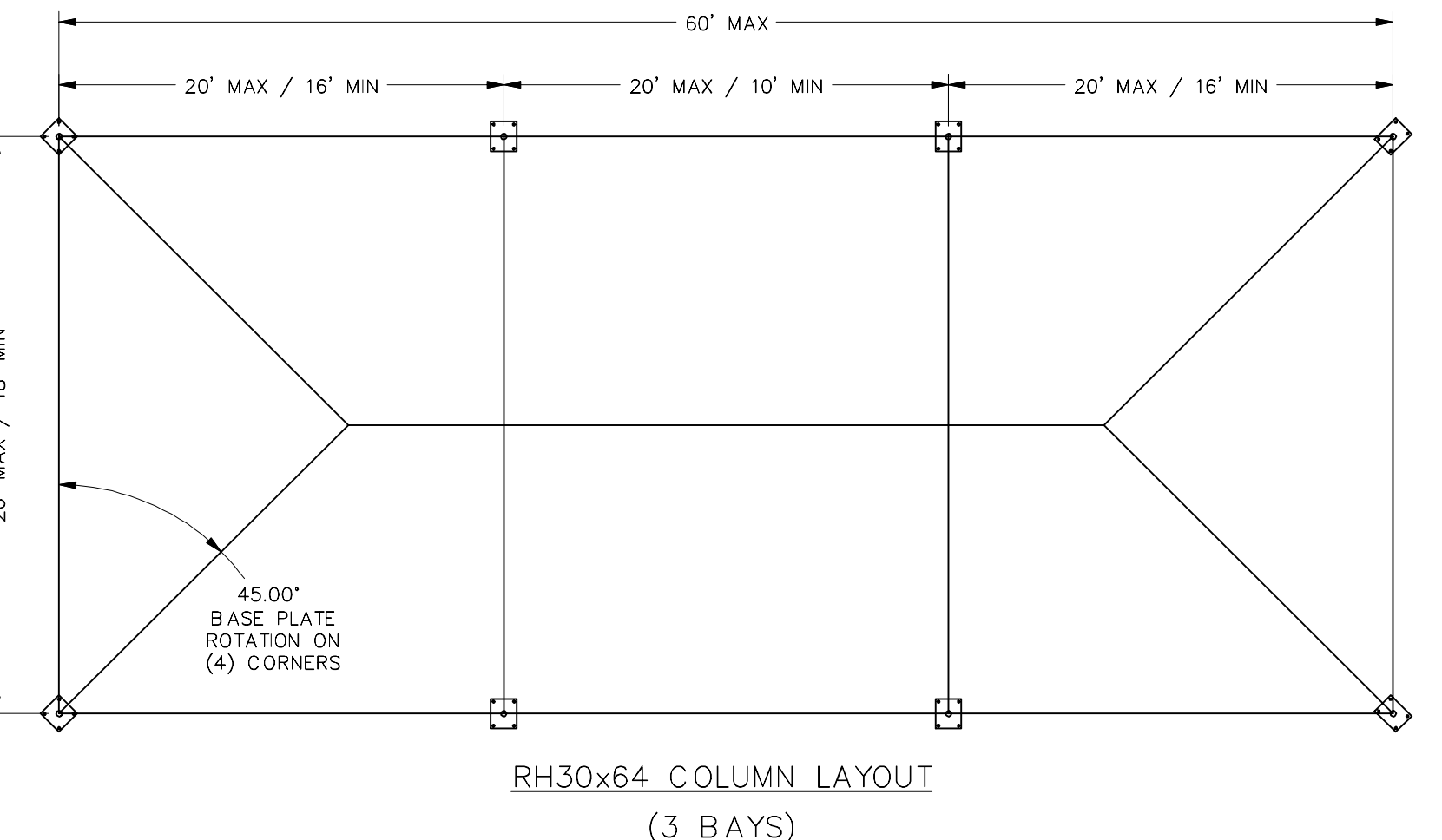
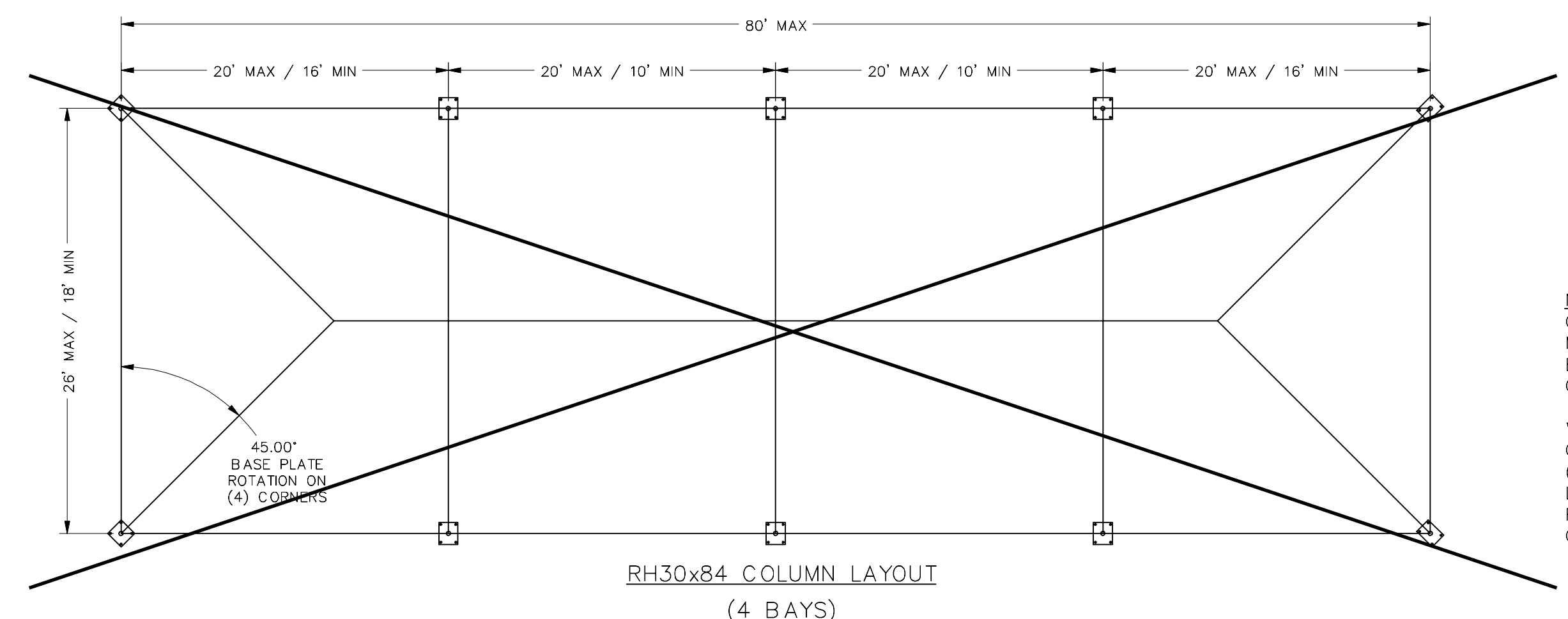
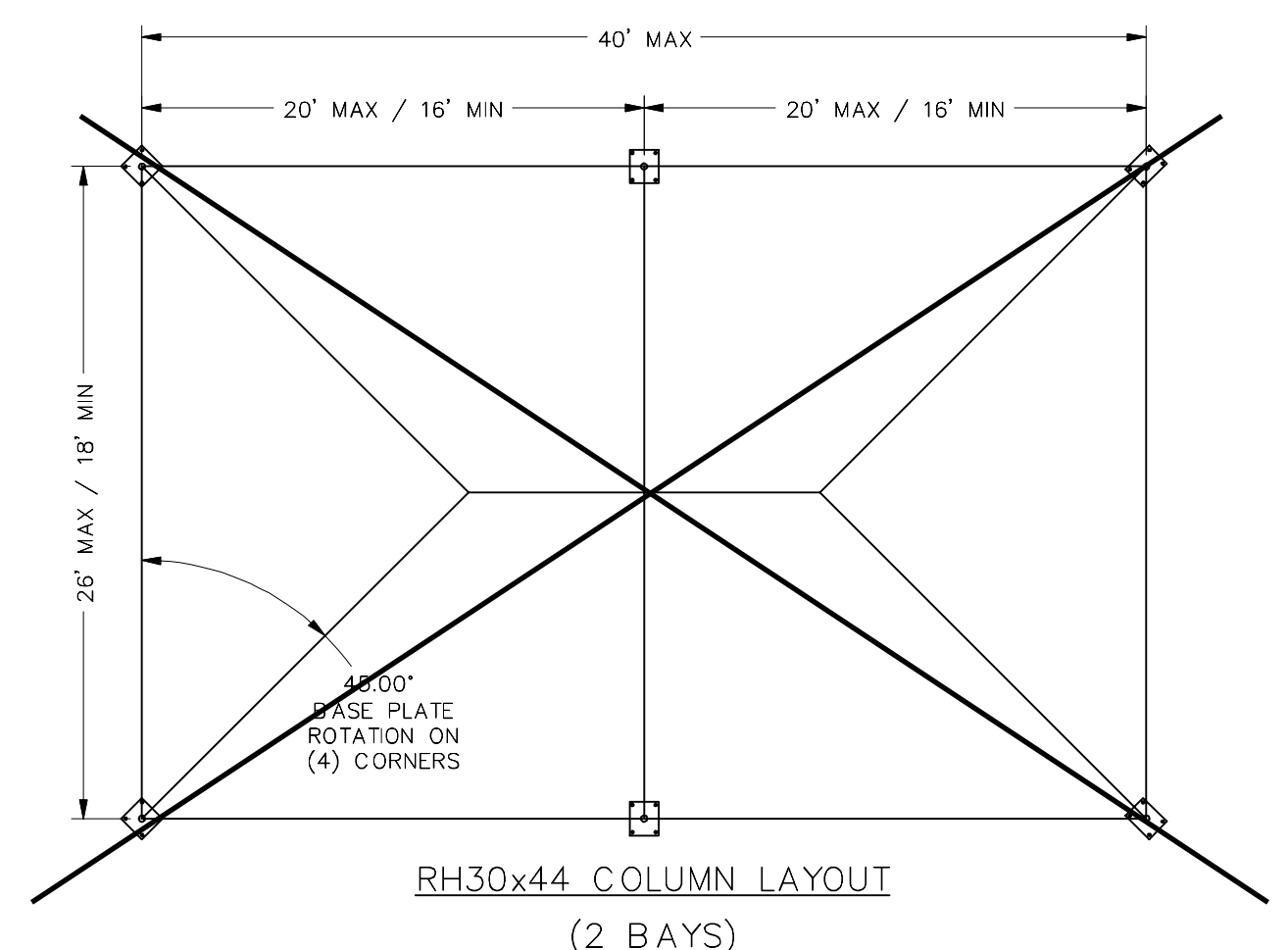
DSA 103



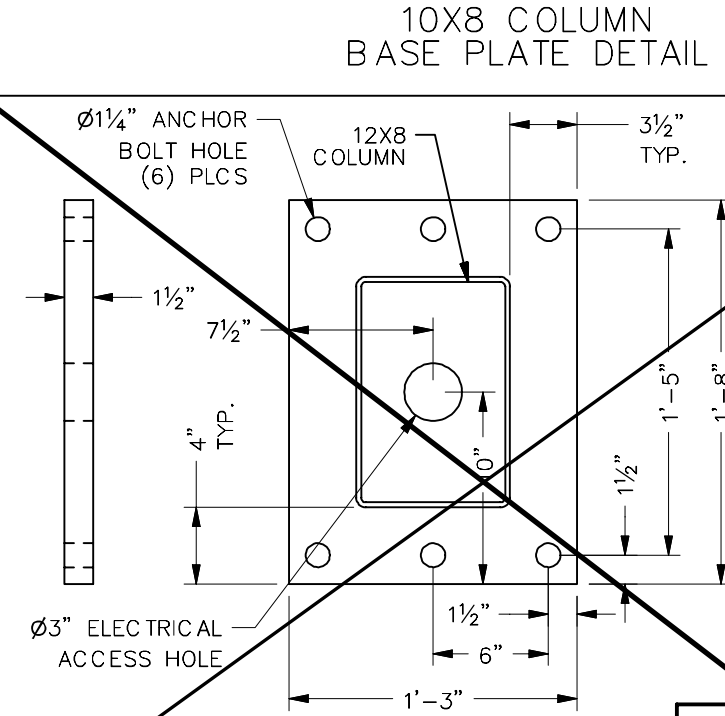
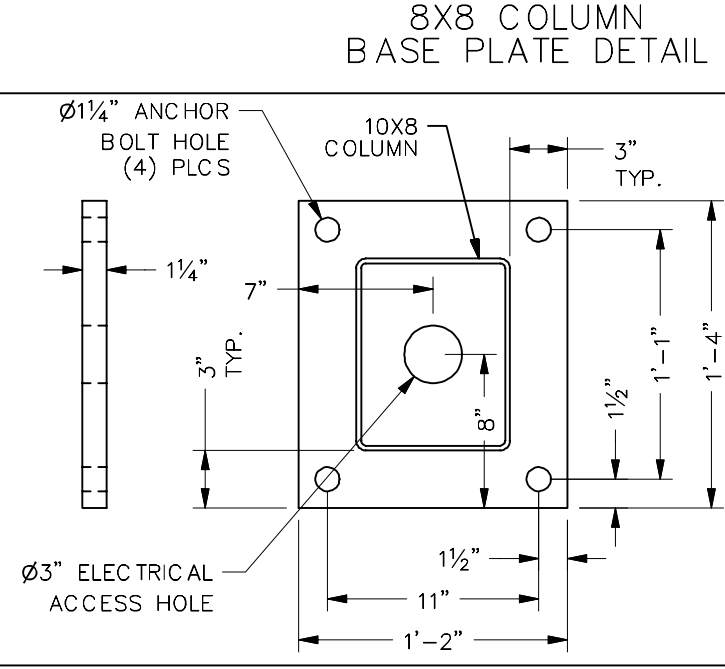
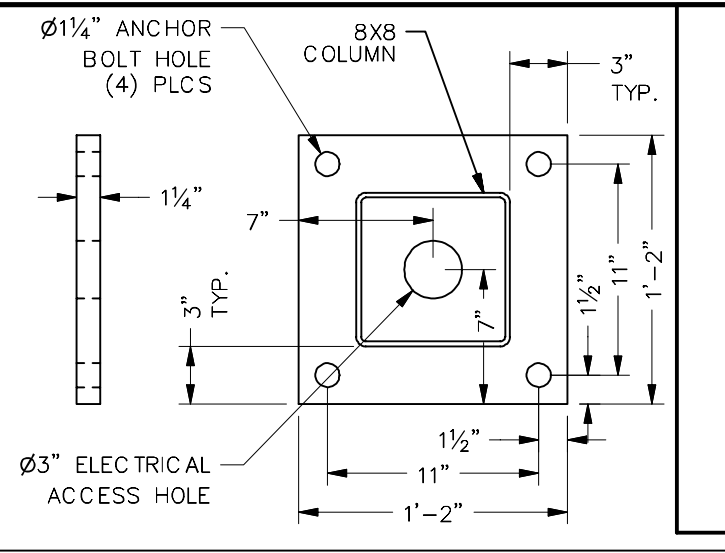
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

LS1.1

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



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

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

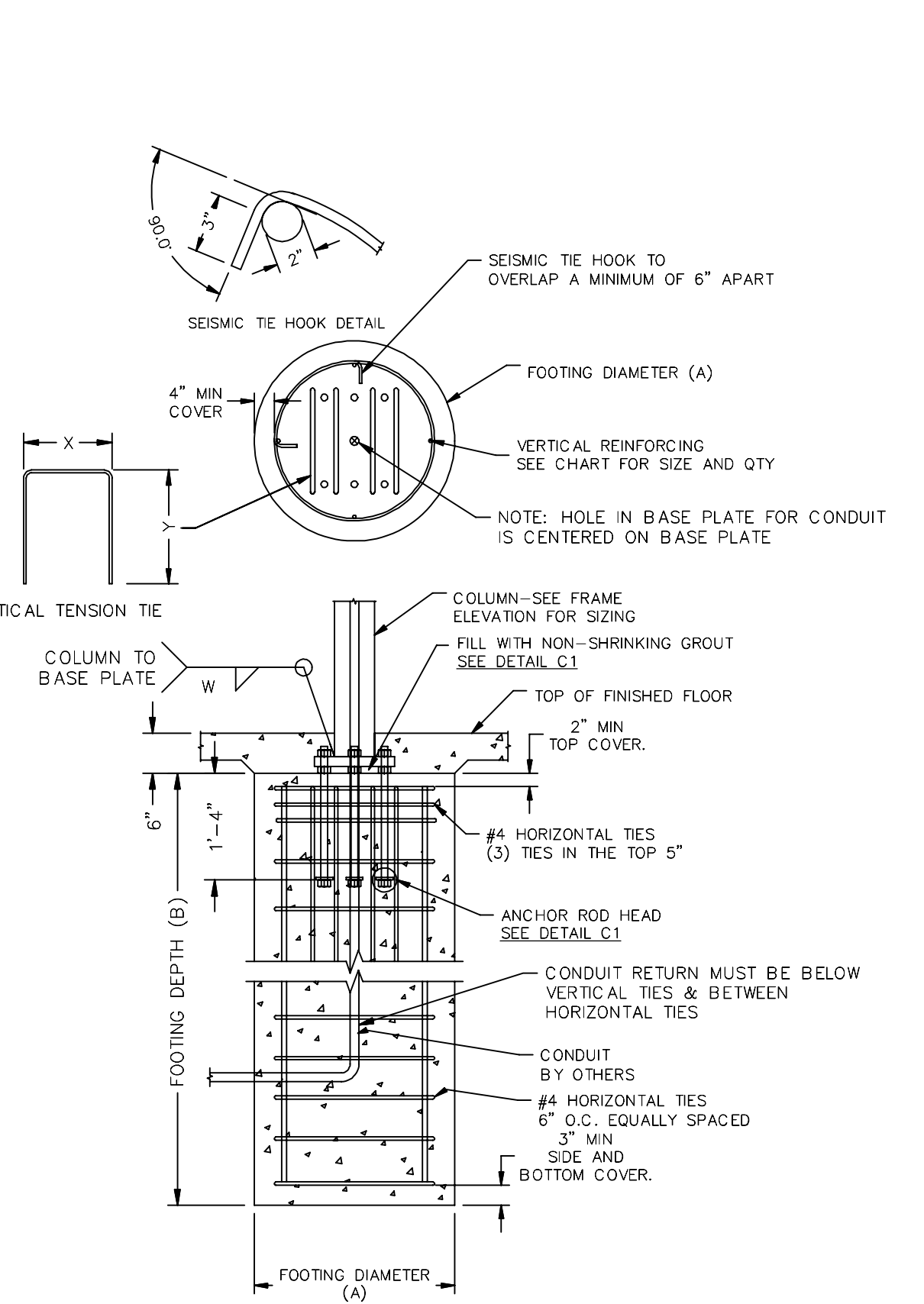
JRMA
 ARCHITECTS ENGINEERS
 2700 SATURN ST IRRGA, CA 92621
 T. 714.524.1870 F. 714.524.1875
 WWW.JRMA.COM

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

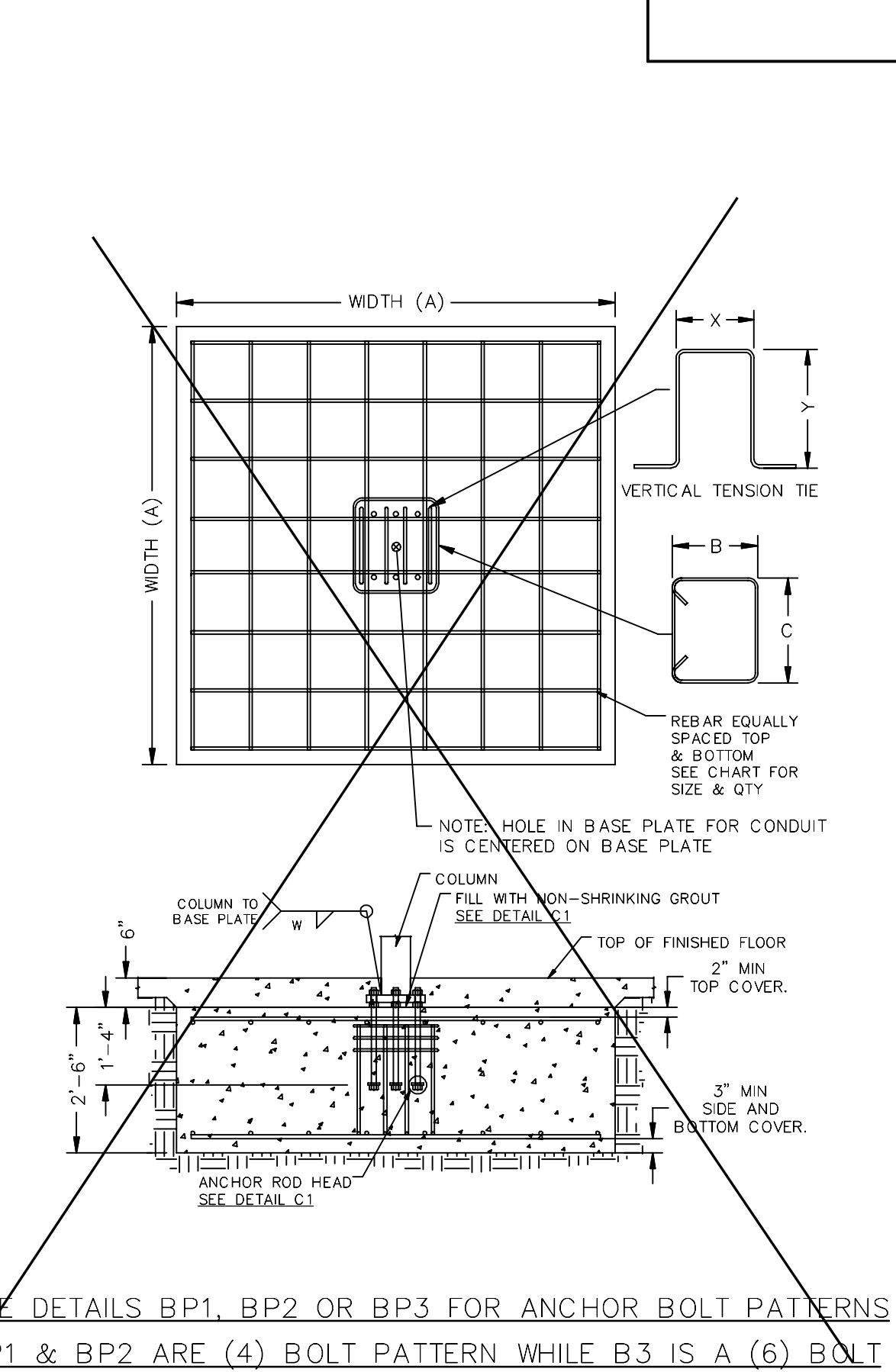
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 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP

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



RH30 - SPREAD												
8' height - Corner Columns												
Soil Class	Vertical Rebar Qty	Depth (in)	T&B Qty	Rebar Size	Rebar Size	Rebar Size	Rebar Size	X (in)	Y (in)	B (in)	C (in)	Fillet Weld "W"
Soil Class 5 - 1500 psf Bearing	6	114	6	6	6	6	6	14	20	15.9	17.3	1/4
Soil Class 4 - 2000 psf Bearing	6	98	6	6	6	6	6	14	20	15.9	17.3	1/4
Soil Class 3 - 3000 psf Bearing	6	92	6	6	6	6	6	14	20	15.9	17.3	1/4
8' height - Side Columns												
Soil Class	Vertical Rebar Qty	Depth (in)	T&B Qty	Rebar Size	Rebar Size	Rebar Size	Rebar Size	X (in)	Y (in)	B (in)	C (in)	Fillet Weld "W"
Soil Class 5 - 1500 psf Bearing	6	144	6	6	6	6	6	16	20	15.6	19.3	5/16
Soil Class 4 - 2000 psf Bearing	6	132	6	6	6	6	6	16	20	15.6	19.3	5/16
Soil Class 3 - 3000 psf Bearing	6	118	6	6	6	6	6	16	20	15.6	19.3	5/16
10' height - Corner Columns												
Soil Class	Vertical Rebar Qty	Depth (in)	T&B Qty	Rebar Size	Rebar Size	Rebar Size	Rebar Size	X (in)	Y (in)	B (in)	C (in)	Fillet Weld "W"
Soil Class 5 - 1500 psf Bearing	6	120	6	6	6	6	6	14	20	15.9	17.3	1/4
Soil Class 4 - 2000 psf Bearing	6	102	6	6	6	6	6	14	20	15.9	17.3	1/4
Soil Class 3 - 3000 psf Bearing	6	92	6	6	6	6	6	14	20	15.9	17.3	1/4
10' height - Side Columns												
Soil Class	Vertical Rebar Qty	Depth (in)	T&B Qty	Rebar Size	Rebar Size	Rebar Size	Rebar Size	X (in)	Y (in)	B (in)	C (in)	Fillet Weld "W"
Soil Class 5 - 1500 psf Bearing	6	136	6	6	6	6	6	16	20	15.6	19.3	5/16
Soil Class 4 - 2000 psf Bearing	6	124	6	6	6	6	6	16	20	15.6	19.3	5/16
Soil Class 3 - 3000 psf Bearing	6	112	6	6	6	6	6	16	20	15.6	19.3	5/16
12' height - Corner Columns												
Soil Class	Vertical Rebar Qty	Depth (in)	T&B Qty	Rebar Size	Rebar Size	Rebar Size	Rebar Size	X (in)	Y (in)	B (in)	C (in)	Fillet Weld "W"
Soil Class 5 - 1500 psf Bearing	6	132	6	6	6	6	6	16	20	15.6	19.3	5/16
Soil Class 4 - 2000 psf Bearing	6	112	6	6	6	6	6	16	20	15.6	19.3	5/16
Soil Class 3 - 3000 psf Bearing	6	102	6	6	6	6	6	16	20	15.6	19.3	5/16
12' height - Side Columns												
Soil Class	Vertical Rebar Qty	Depth (in)	T&B Qty	Rebar Size	Rebar Size	Rebar Size	Rebar Size	X (in)	Y (in)	B (in)	C (in)	Fillet Weld "W"
Soil Class 5 - 1500 psf Bearing	6	140	6	6	6	6	6	20	20	16.6	21.3	1/2
Soil Class 4 - 2000 psf Bearing	6	120	6	6	6	6	6	20	20	16.6	21.3	1/2
Soil Class 3 - 3000 psf Bearing	6	108	6	6	6	6	6	20	20	16.6	21.3	1/2



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

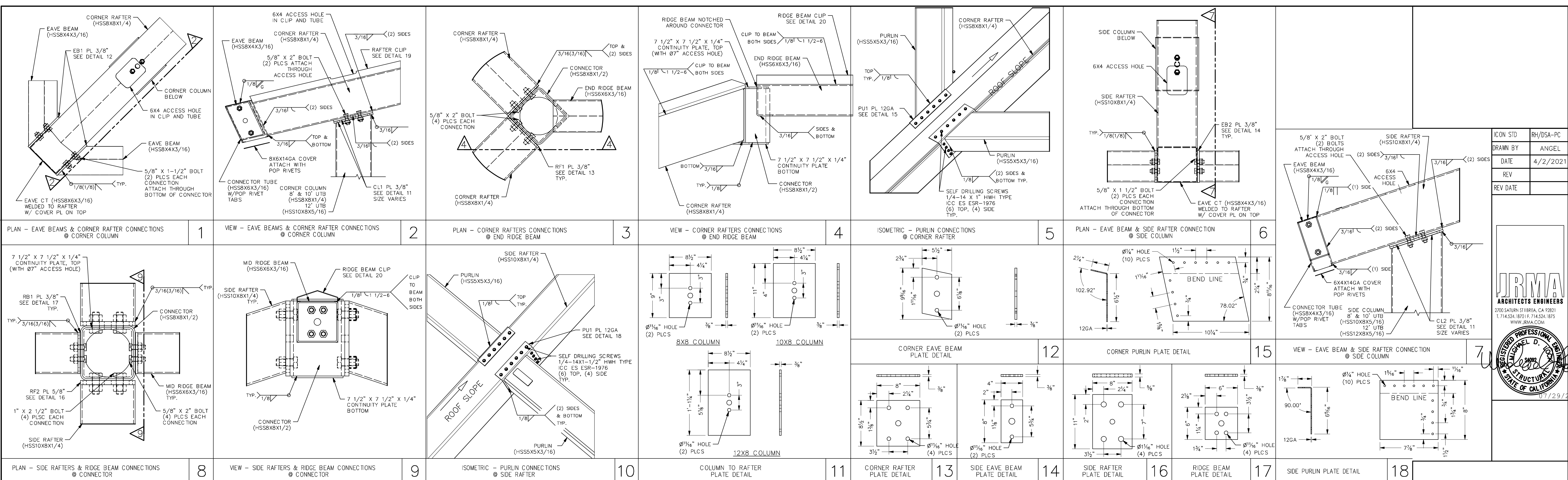
PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

ICON
 Shelter Systems Inc
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LS3.0

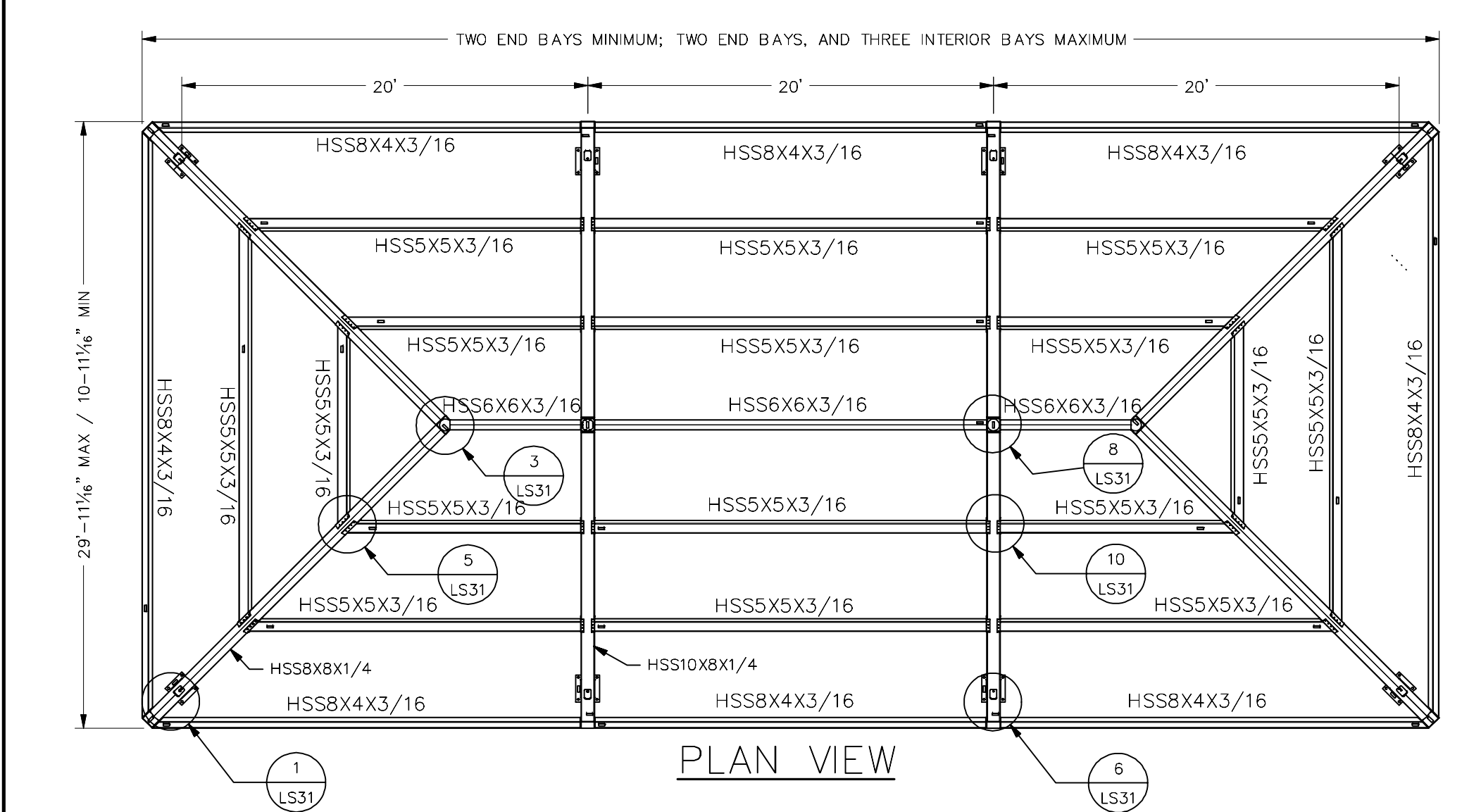
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ICON STD	RH/DSA-PC
DRAWN BY	ANGEL
DATE	4/2/2021
REV	
REV DATE	

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ARCHITECTS ENGINEERS
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T. 714.524.8701 F. 714.524.1875
WWW.JRMA.COM

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



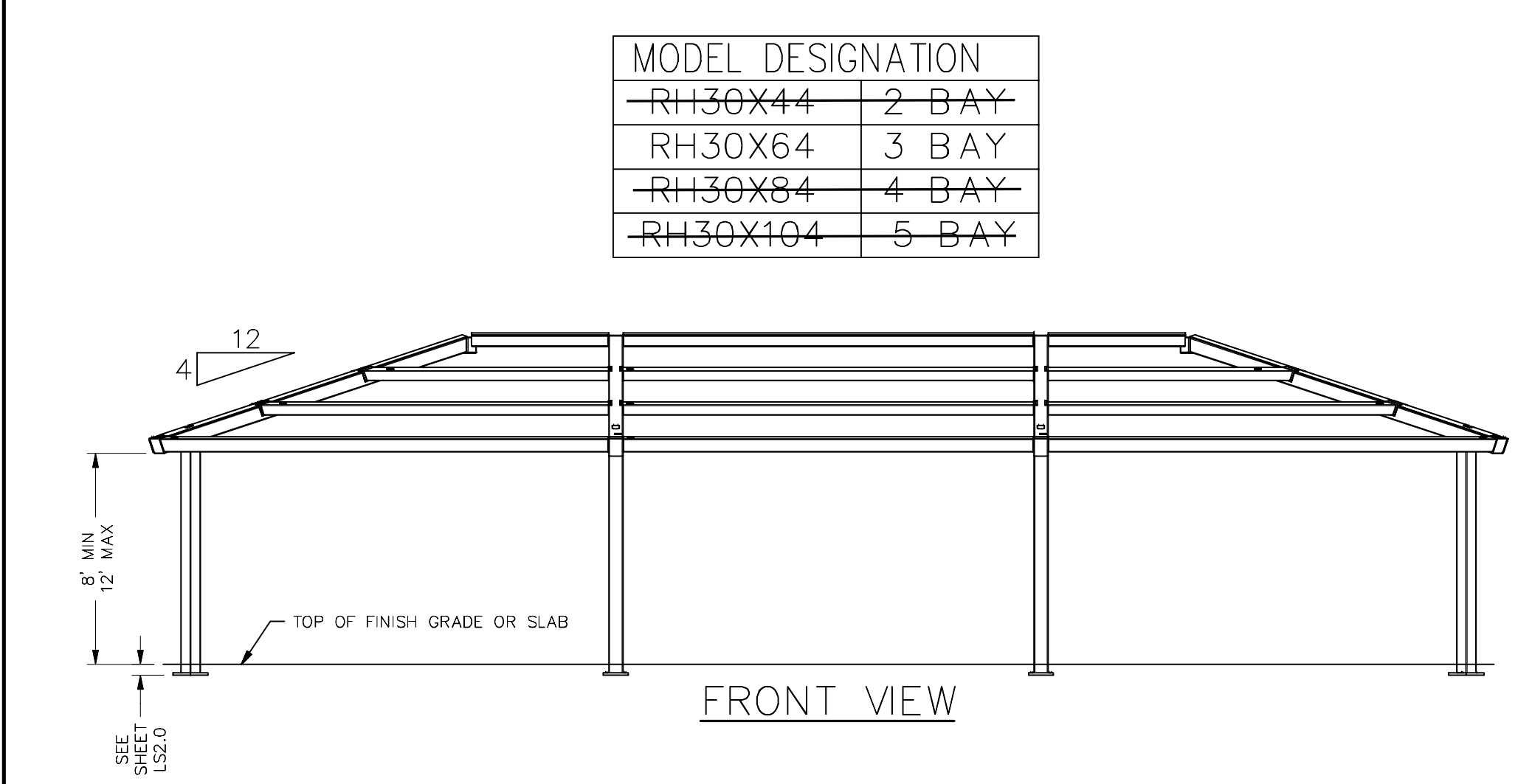
MODEL DESIGNATION	
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY

*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

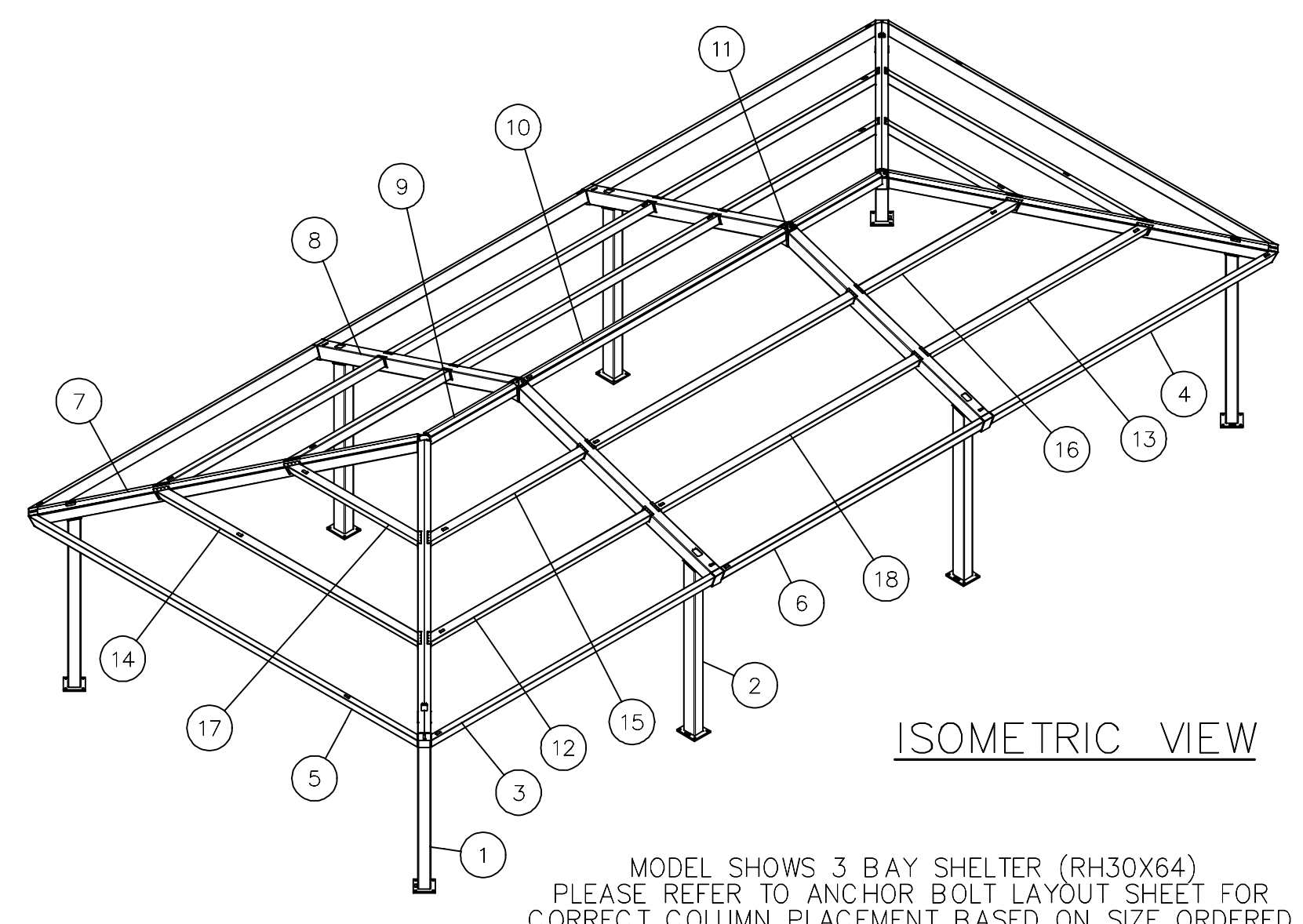
**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

- 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



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

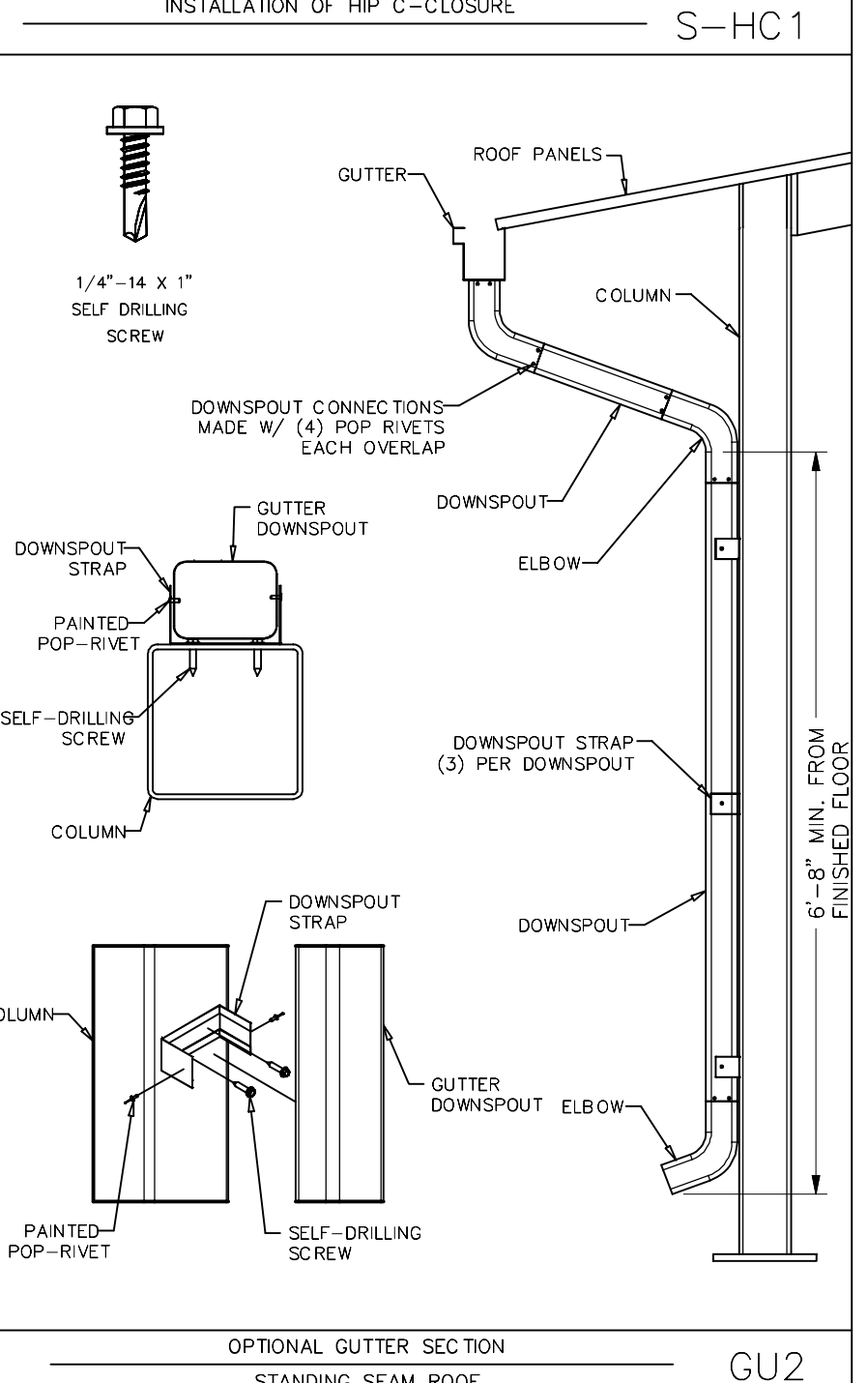
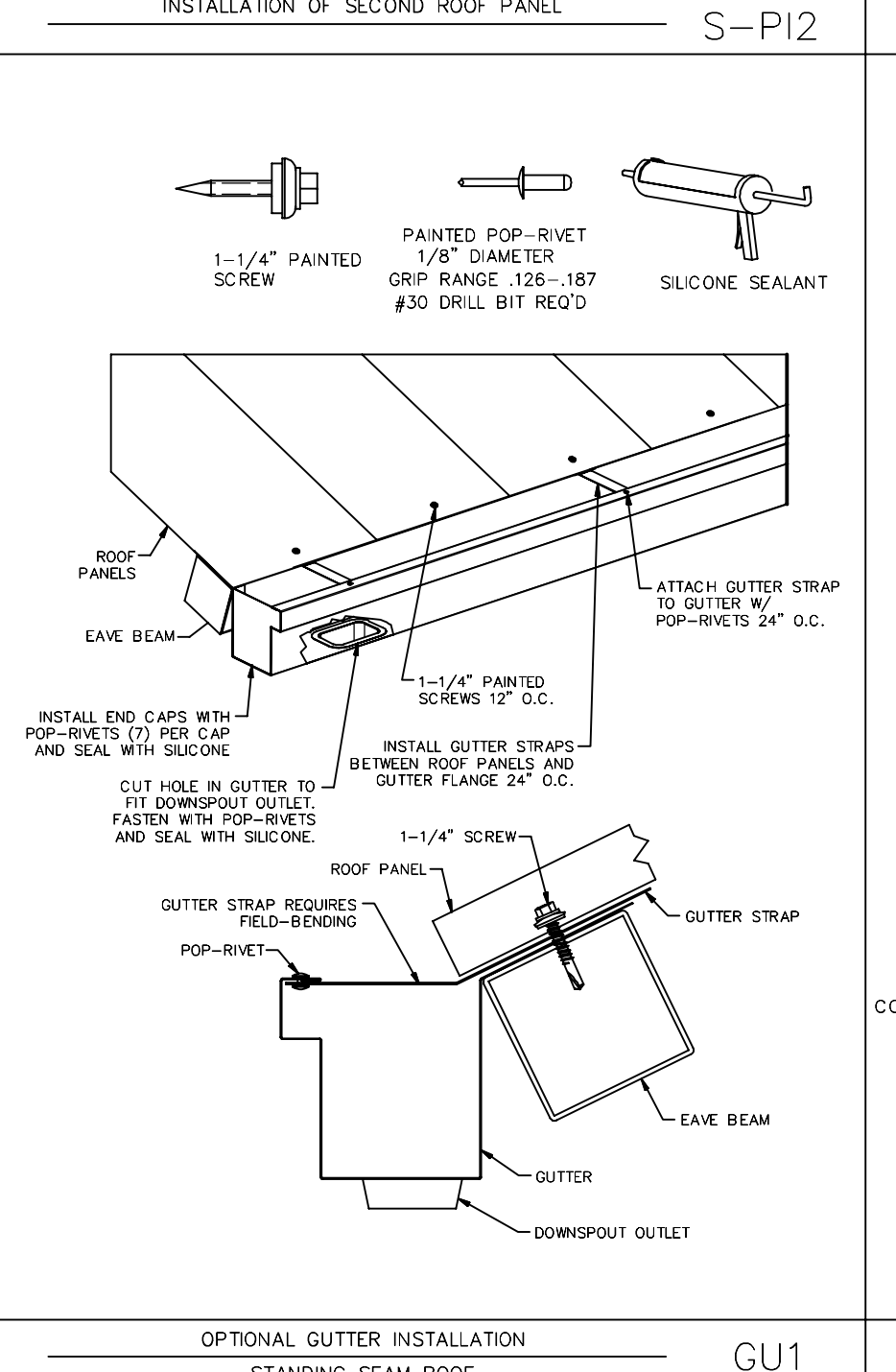
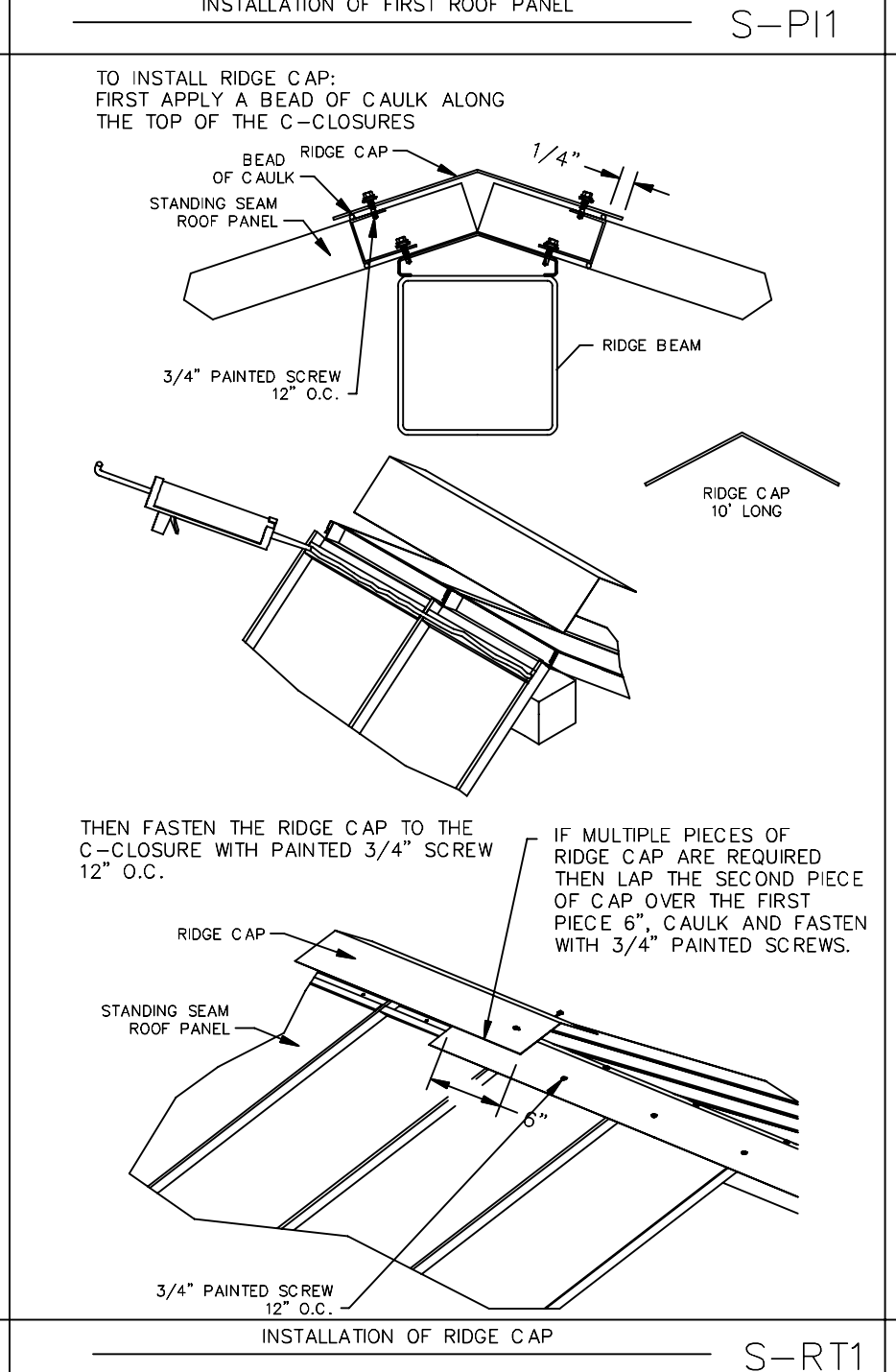
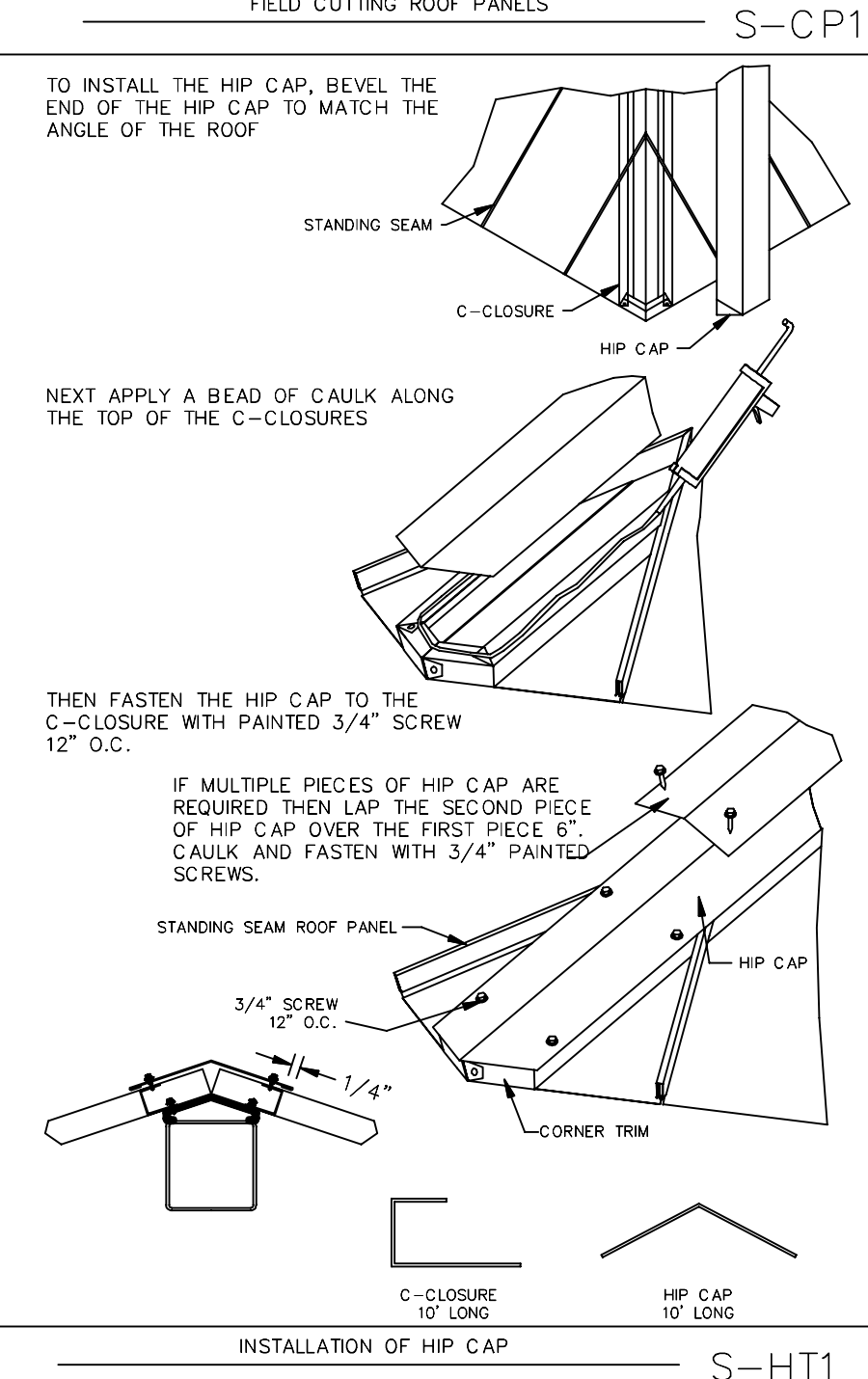
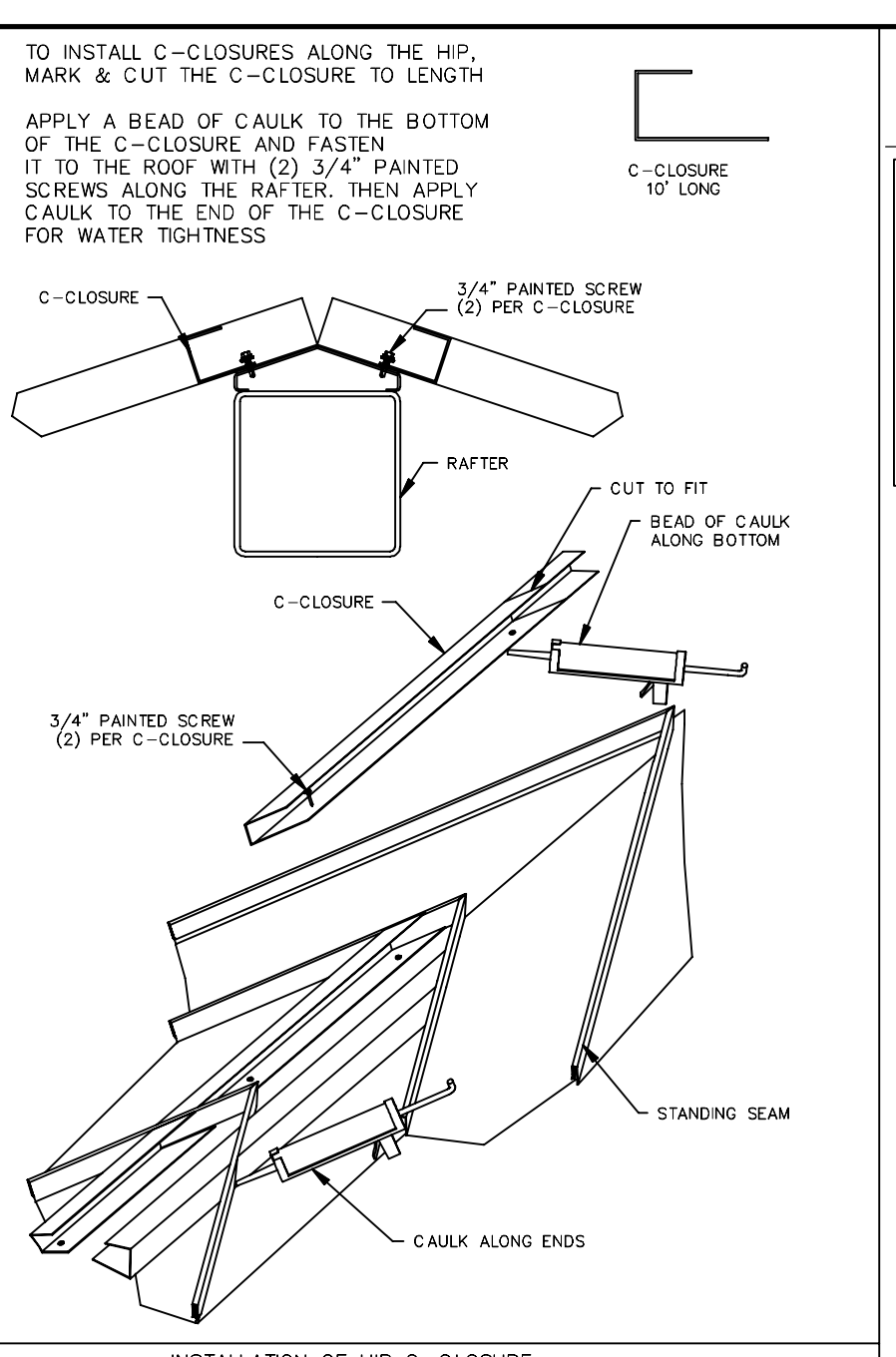
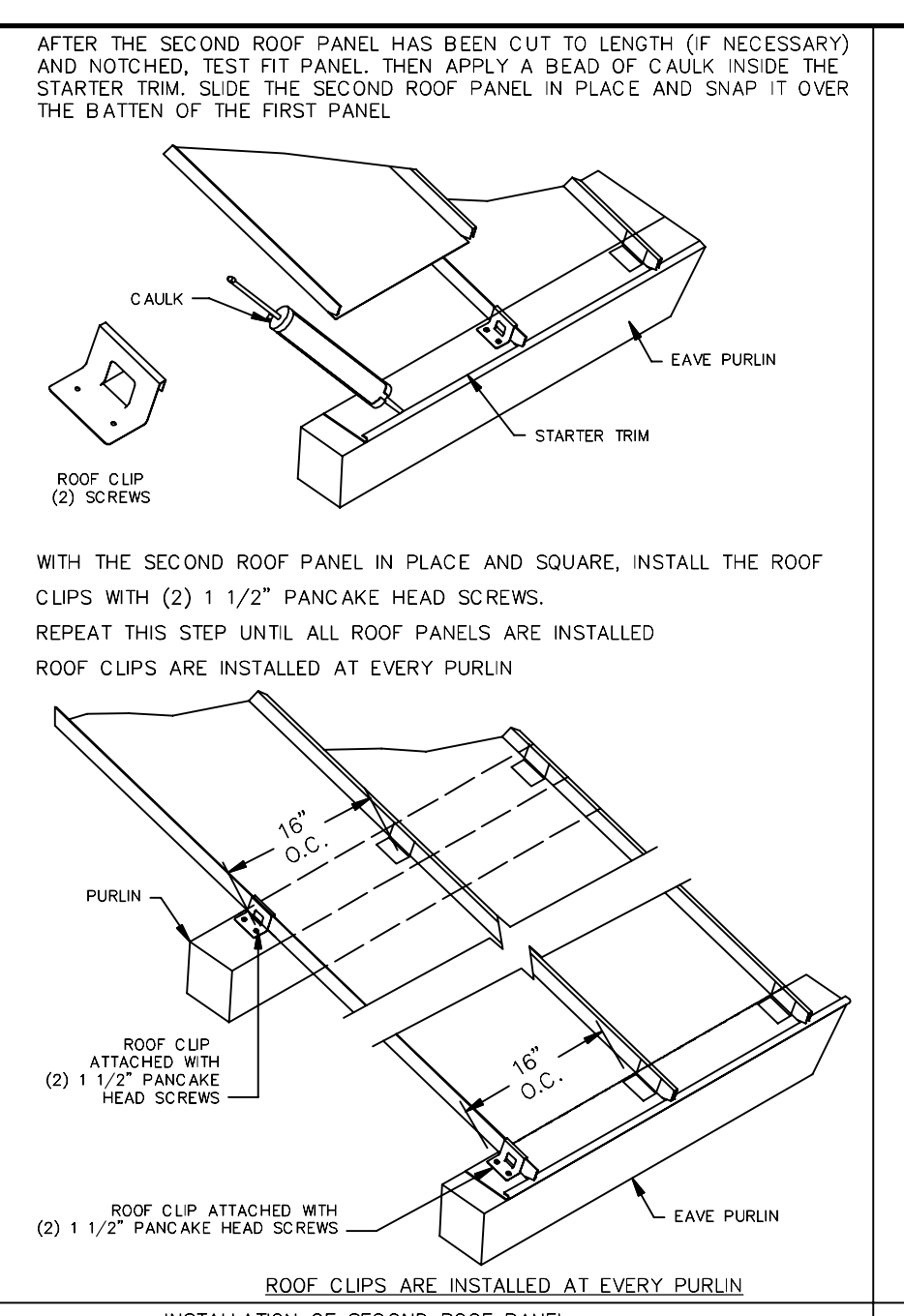
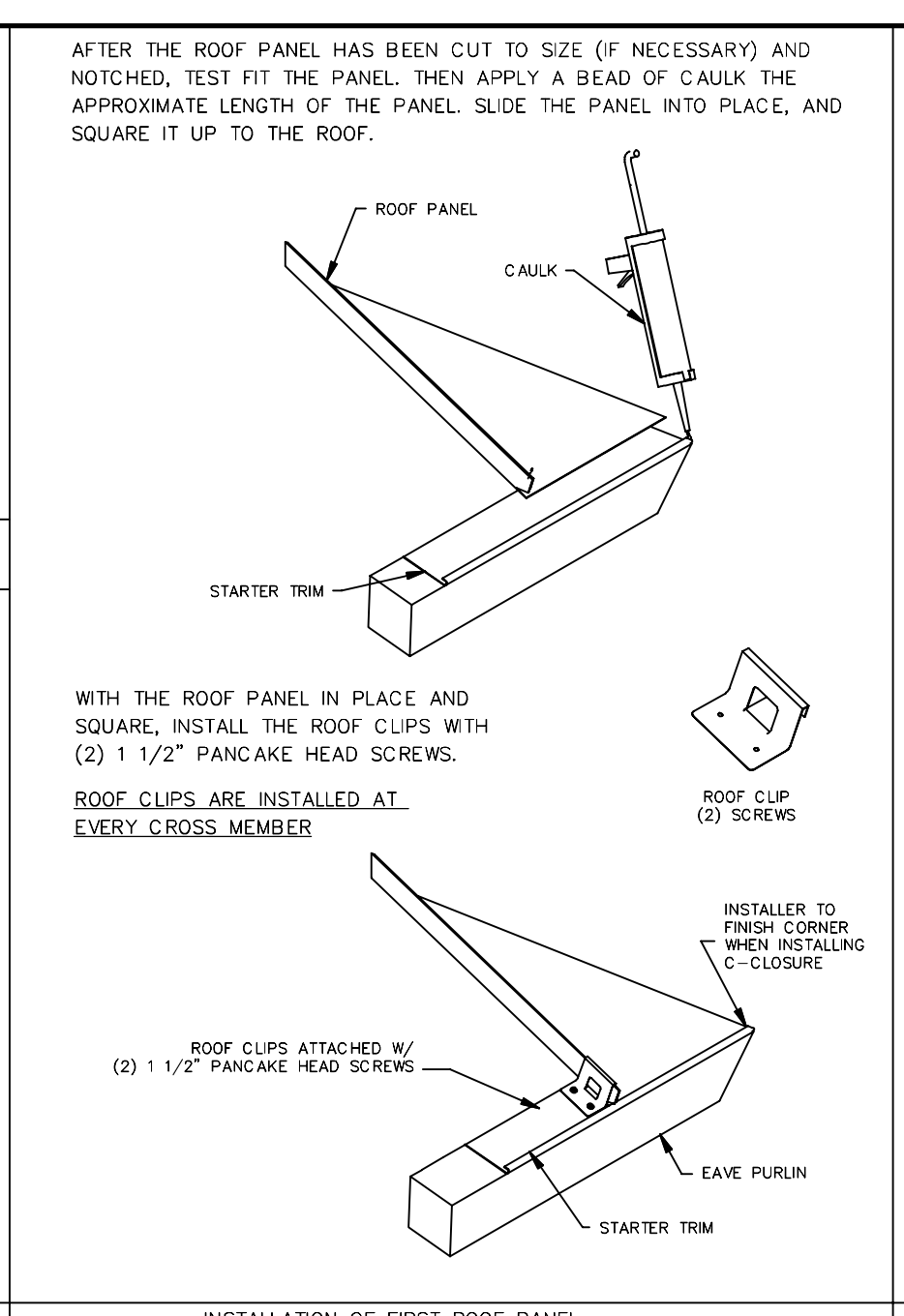
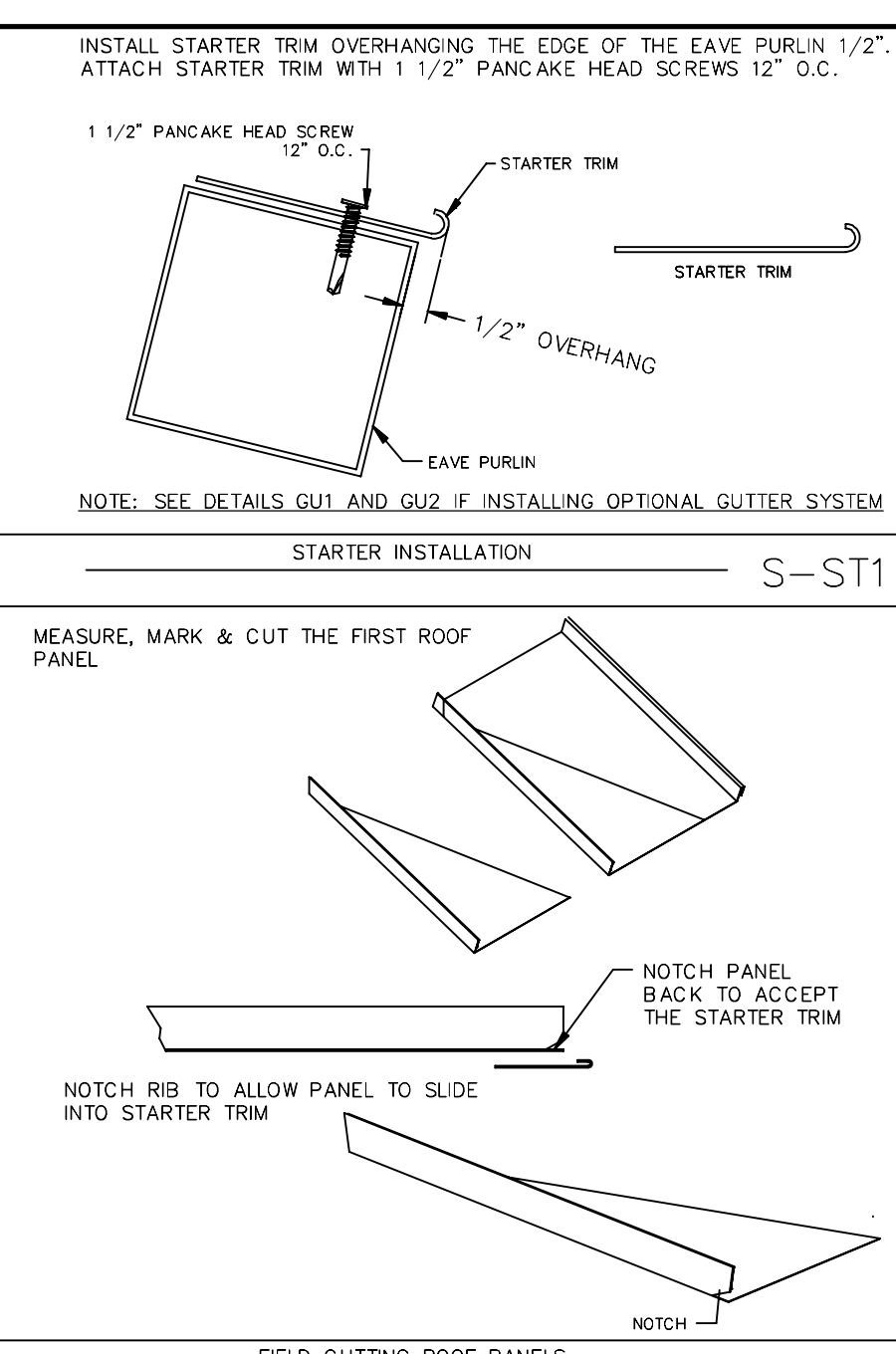
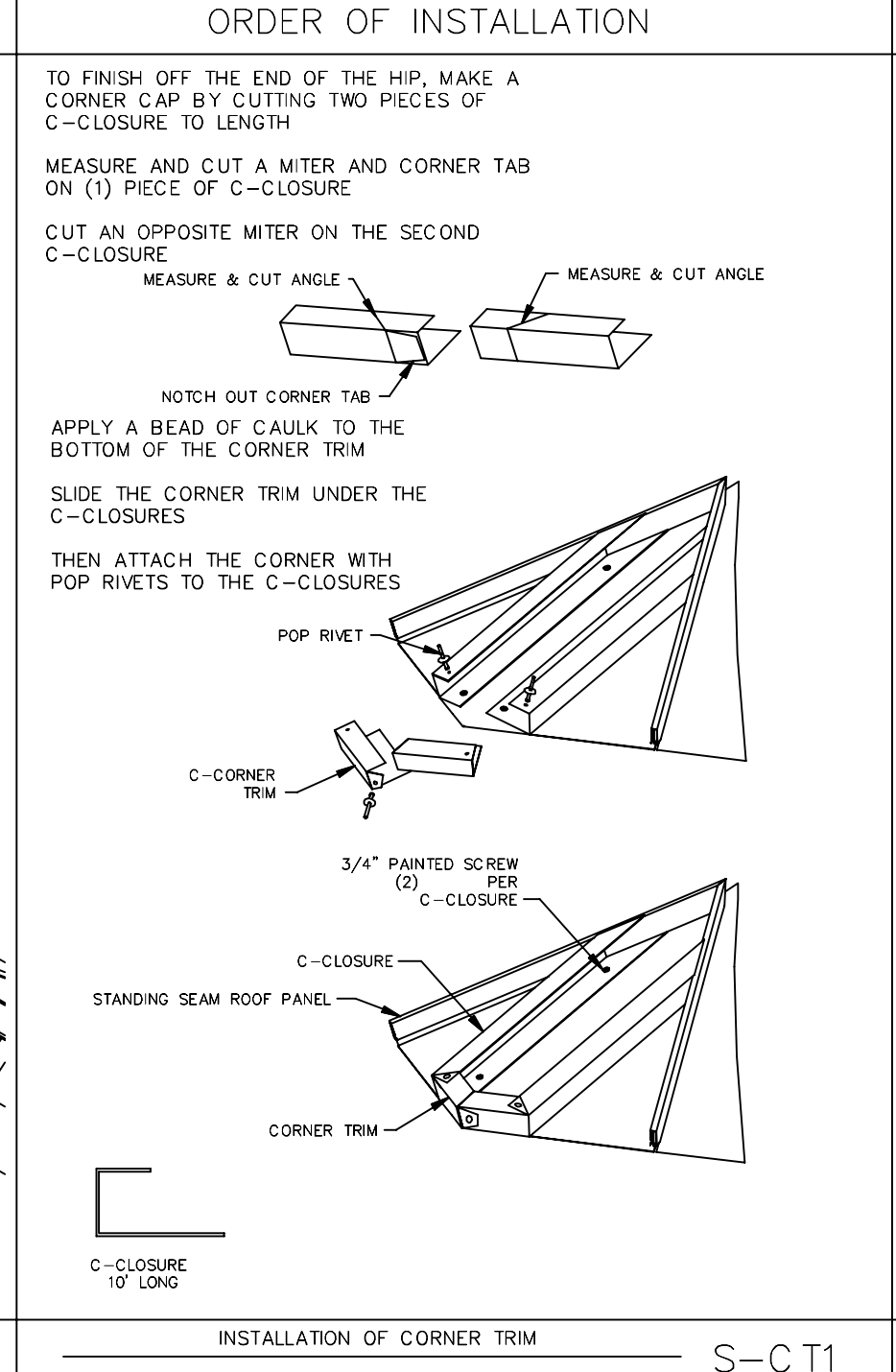
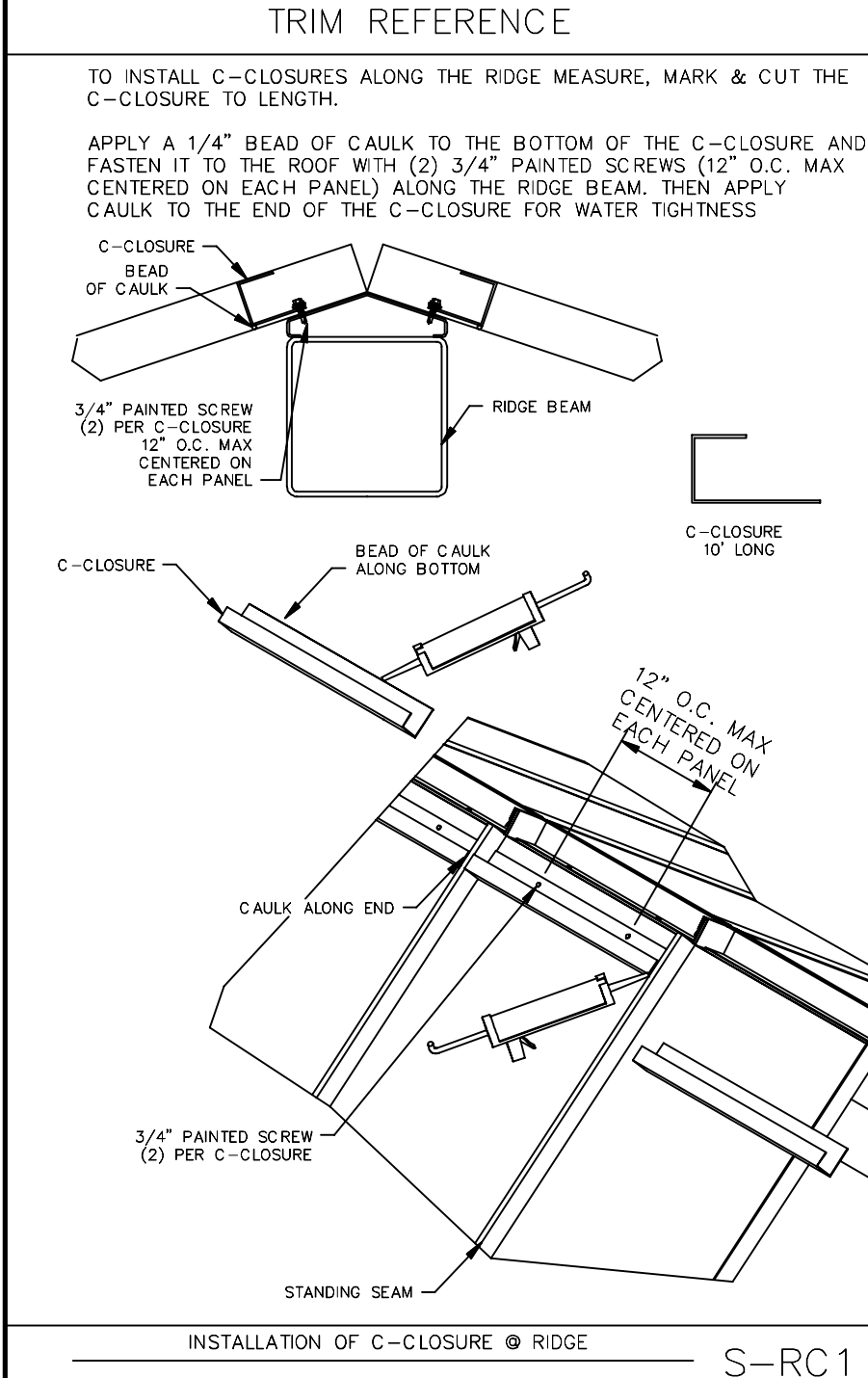
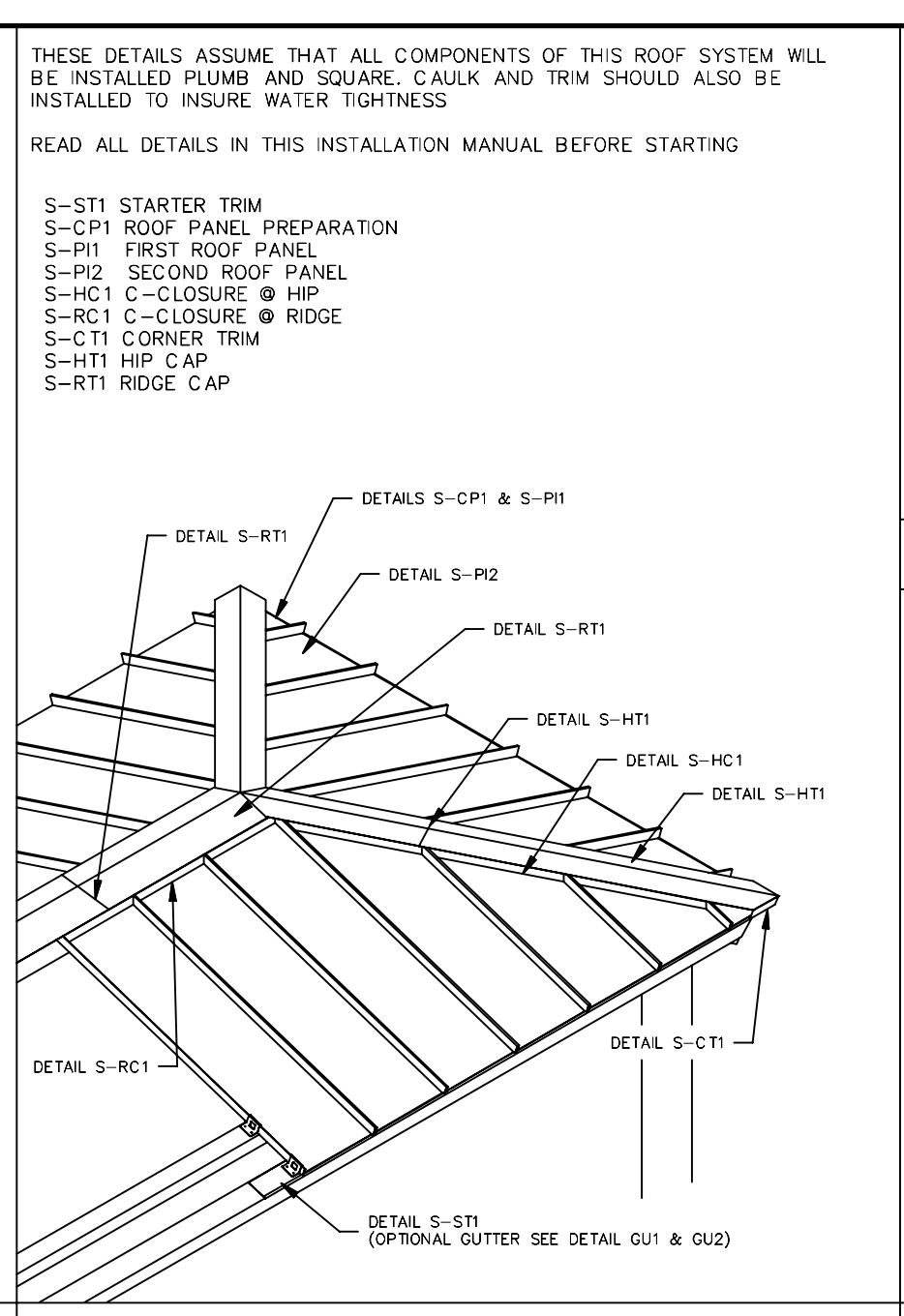
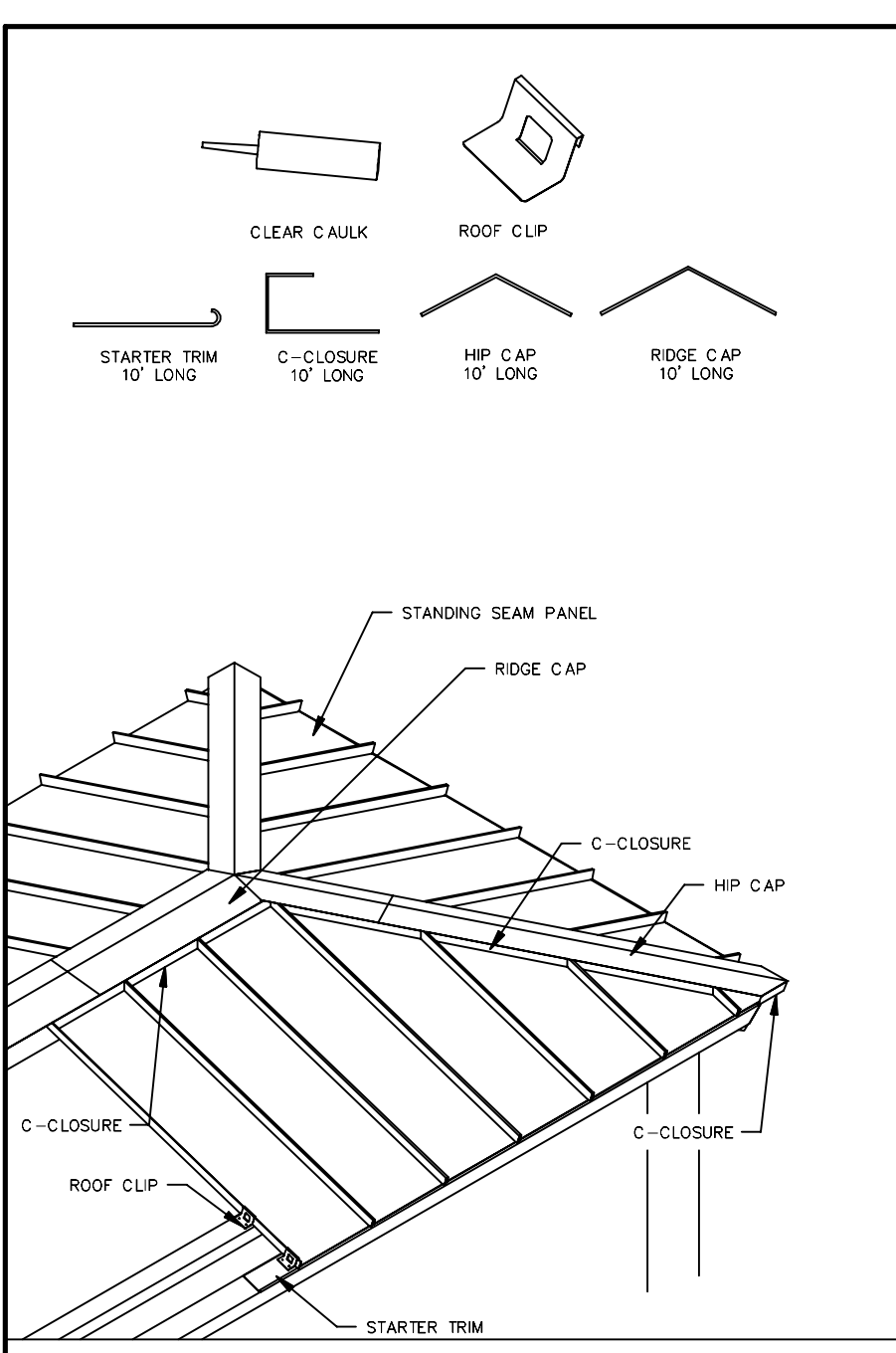
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DIV. OF THE STATE ARCHITECT
APP-04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021

30' WIDE
RECTANGULAR HIP
FRAMING &
CONNECTION DETAILS

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LS3.1

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



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, DESIGNS 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.

EREKTORS 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.

1 1/2" PANCAKE HEAD SCREW 12" O.C. ICC ESR-1976

3/4" PAINTED SCREW 12" O.C. HWH ICC ESR-1976

16" COVER WIDTH

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

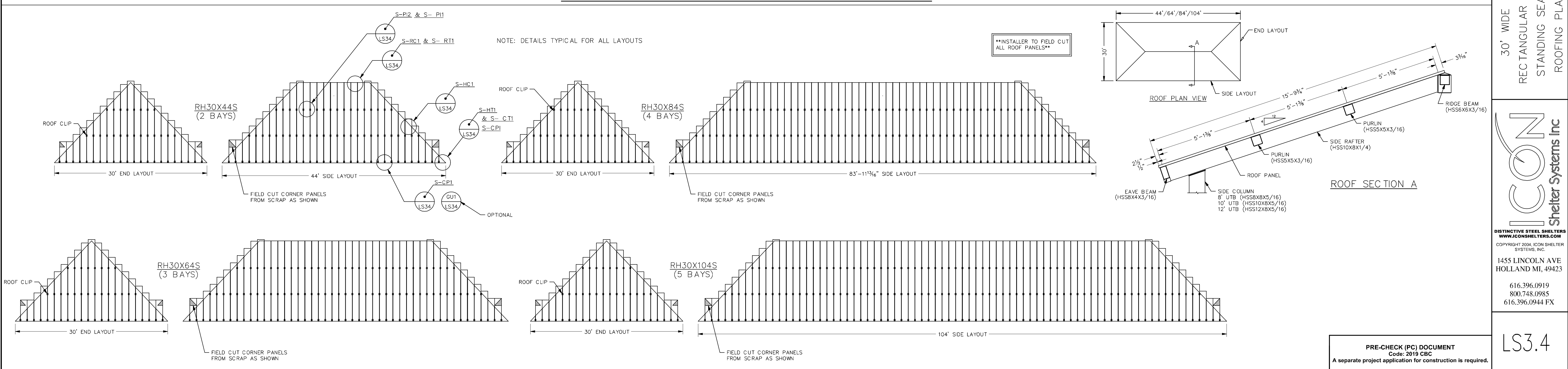
SECTION PROPERTIES (PER FT. OF WIDTH)

TOP IN COMPRESSION
I_x = 0.086 in⁴
S_e = 0.0561 in⁻³
M_g = 1.68 in-kips

BOTTOM IN COMPRESSION
I_x = 0.040 in⁴
S_e = 0.0479 in⁻³
M_g = 1.248 in-kips

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APP-04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/08/2021

30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING



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/CUTOOUT 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.

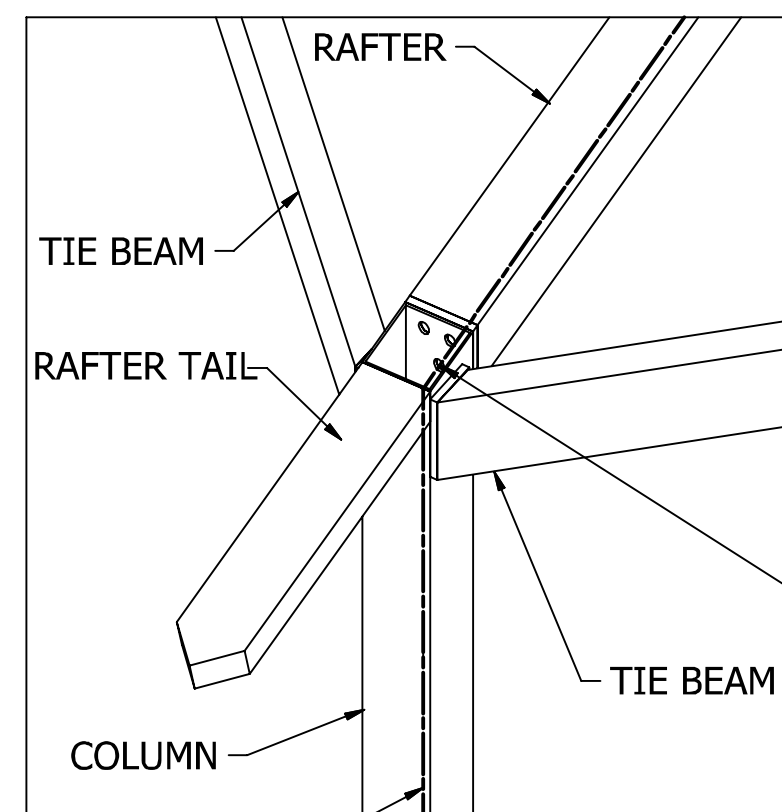
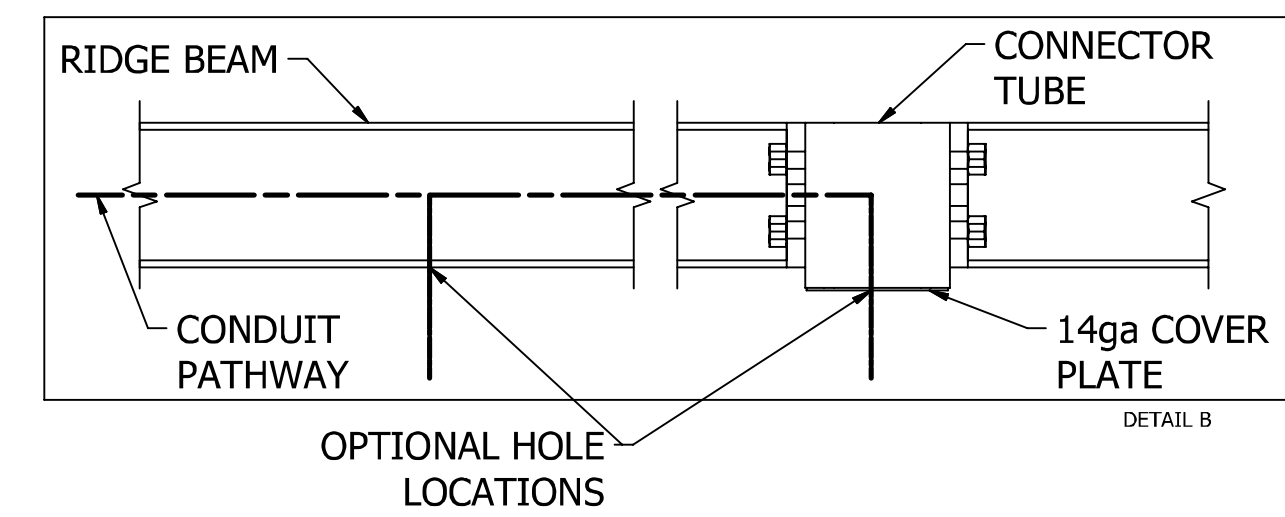
PRELIMINARY: NOT FOR CONSTRUCTION

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

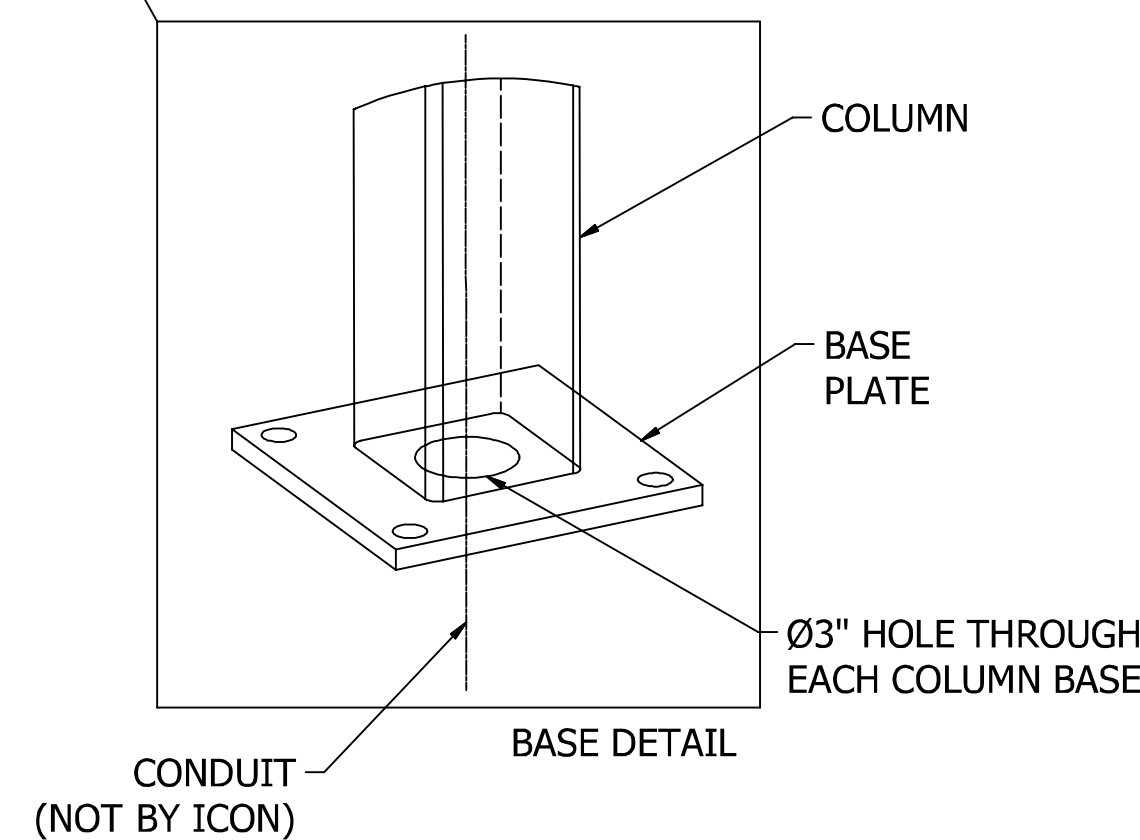
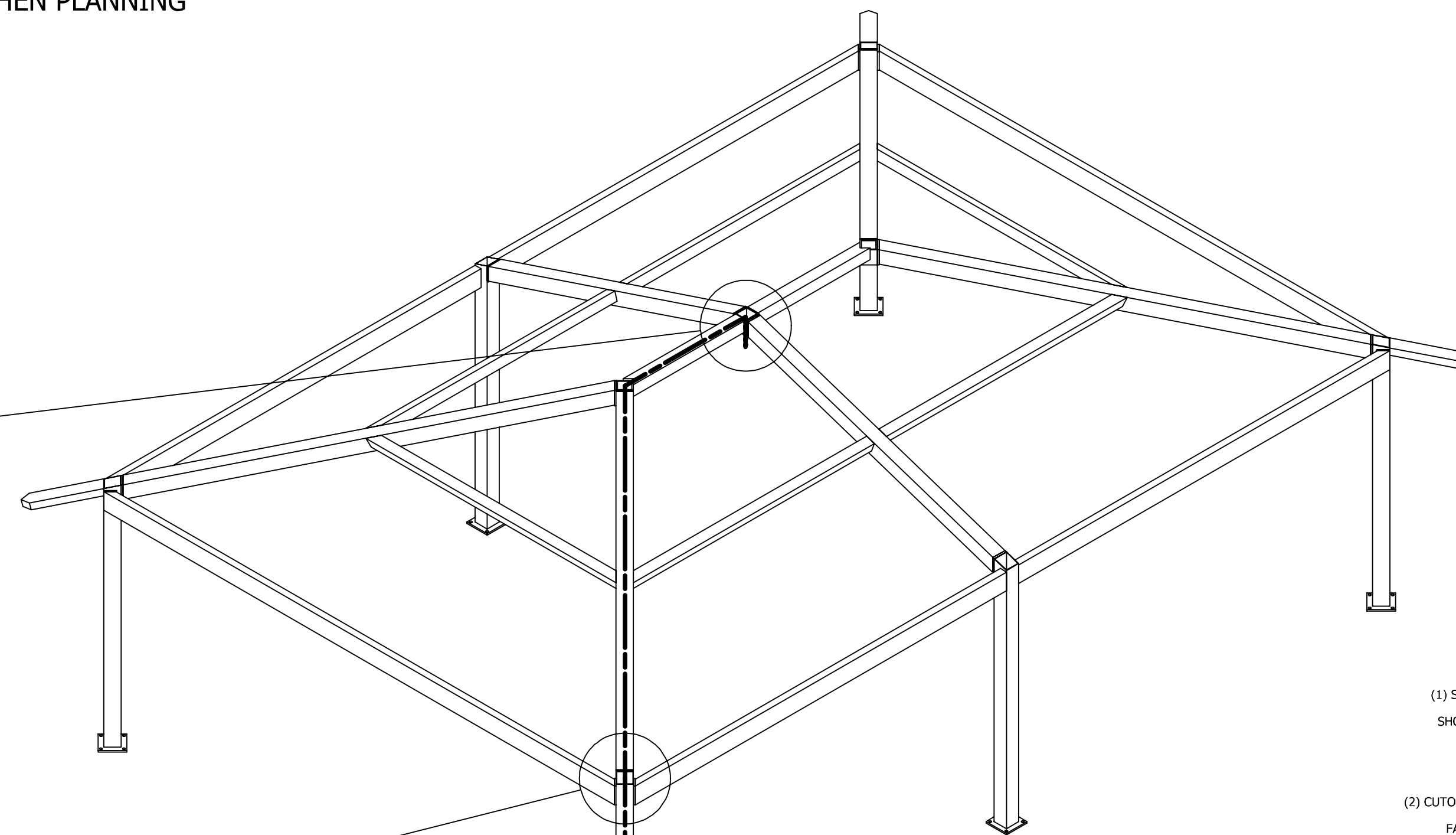
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



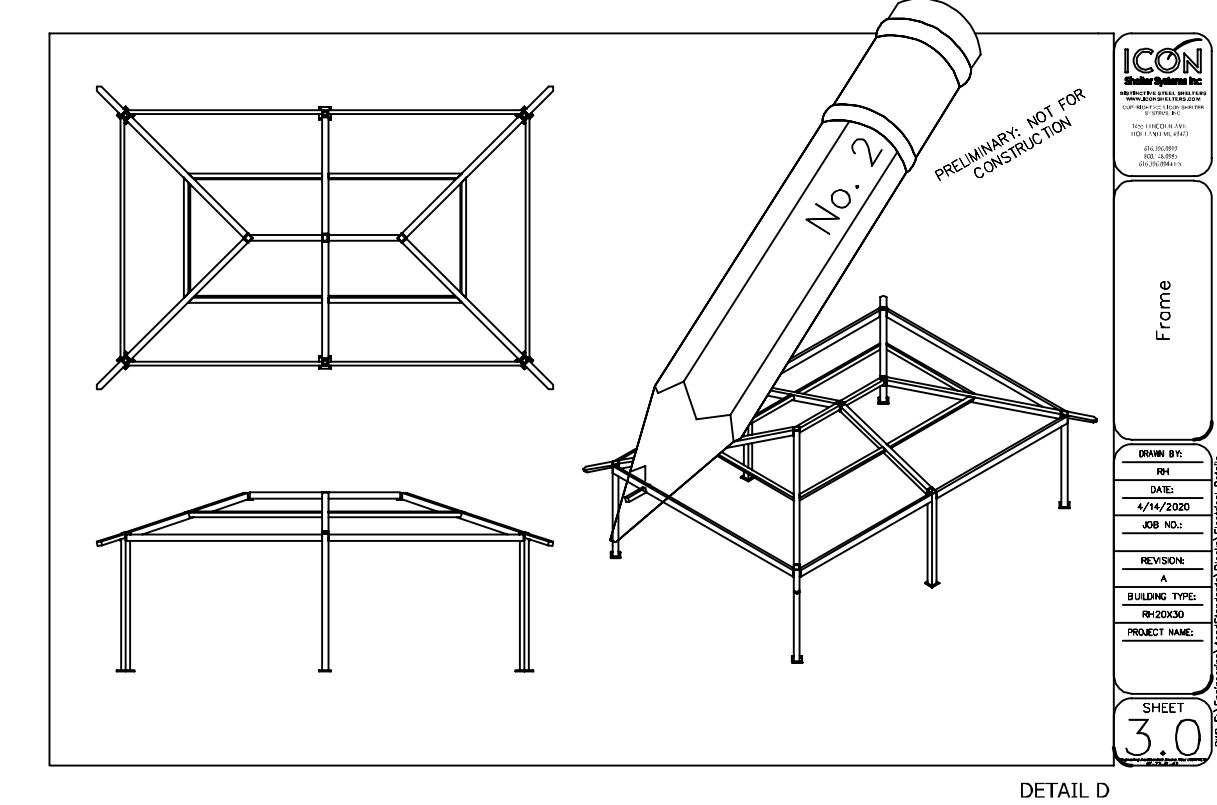
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 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.

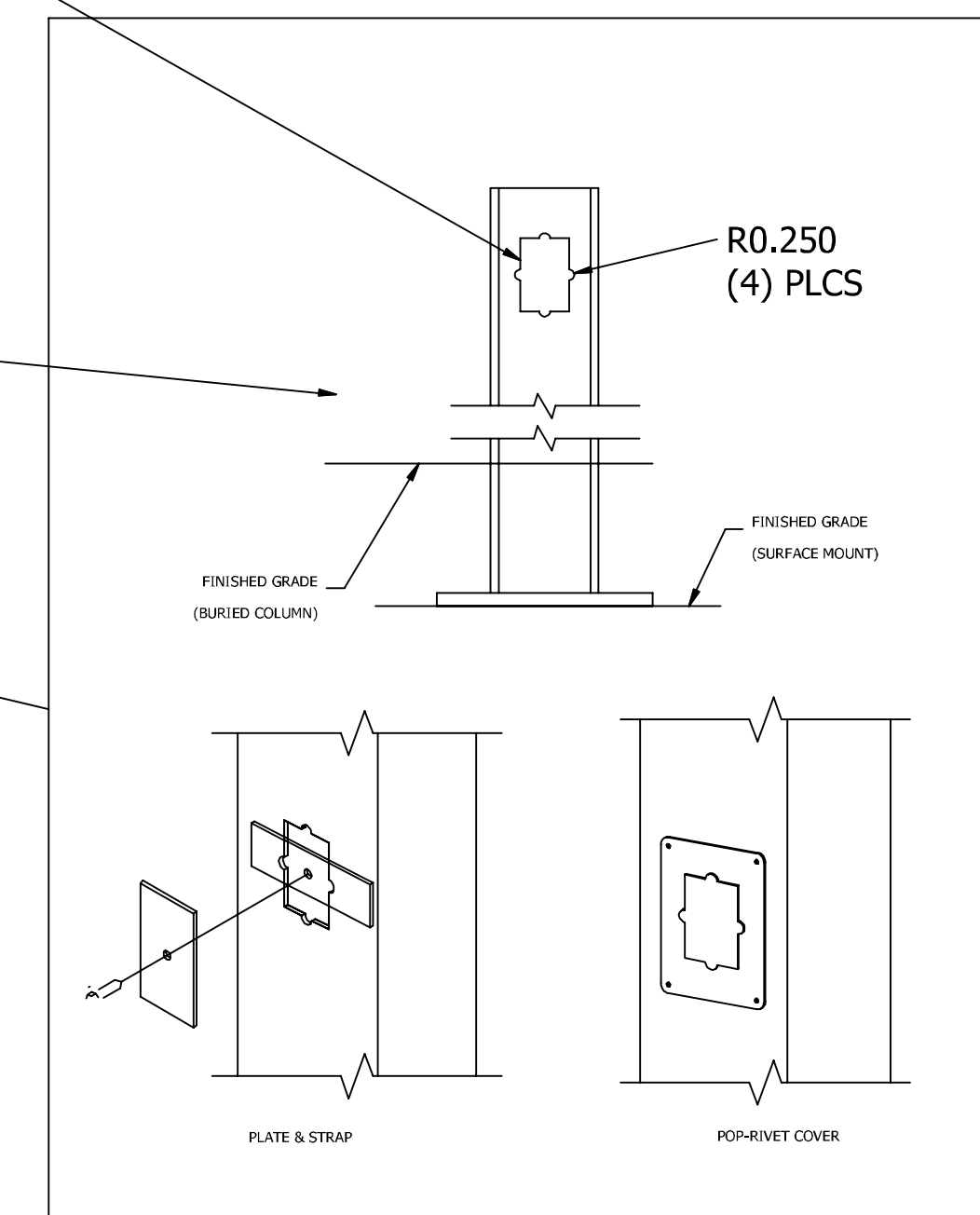


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



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

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

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST IRRISA, CA 92621
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

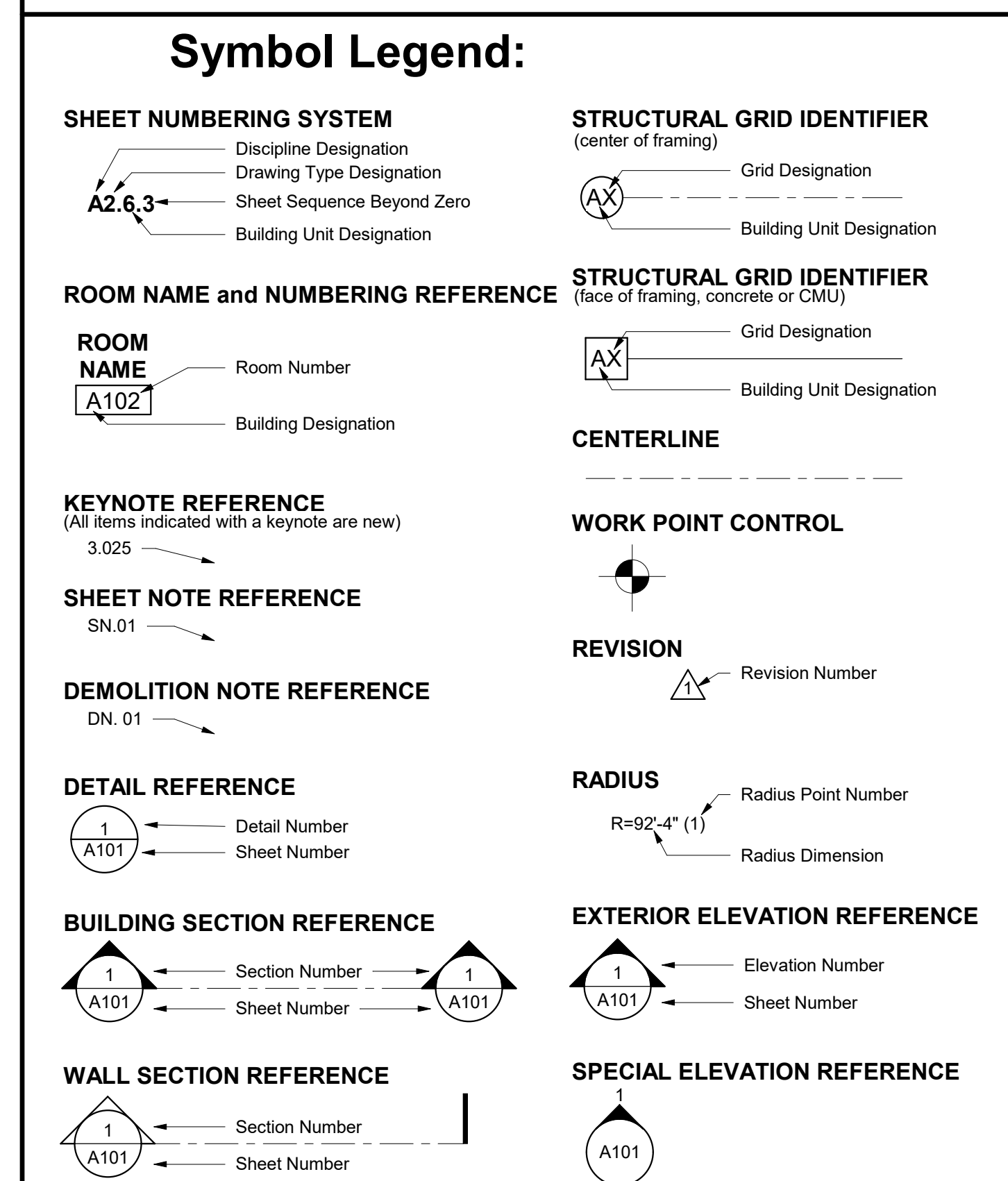
REGISTERED PROFESSIONAL ENGINEER
ANGELO D. JACOBINI
STATE OF CALIFORNIA
07/29/2021

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

ELECTRICAL ACCESS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

Abbreviations table listing construction terms and their corresponding abbreviations, such as A, F, R.P., ANGLE, CENTERLINE, etc.



SHADE STRUCTURE AT ROSA PARKS MIDDLE 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

Contact: MIKE TAXARA

Consultants: CIVIL ENGINEER: WARREN CONSULTING ENGINEERS; ELECTRICAL ENGINEER: PETERS ENGINEERING; 1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762

Project Information: PROJECT SCOPE: INSTALLATION OF (1) 30' X 64' PC SHADE STRUCTURE AND RELATED CONCRETE PAD, UPGRADES TO ACCESSIBLE PATH OF TRAVEL, PARKING AND RESTROOMS.

Sheet Index table listing sheets A0.1 through A0.7 and C1.1 through C2.1, including their descriptions like COVER SHEET, TYPICAL MOUNTING HEIGHTS AND DETAILS, etc.

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; etc.

DSA Procedures:

- 1. ADDENDA MUST BE STAMPED AND SIGNED BY THE ARCHITECT OF RECORD AND APPROVED BY DSA IN ACCORDANCE WITH CCR TITLE 24, PART 1; 2. THE CONTRACTOR SHALL BE FAMILIAR WITH, AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01...

Deferred Approval:

- PC SHADE STRUCTURE

Statement of General Conformance

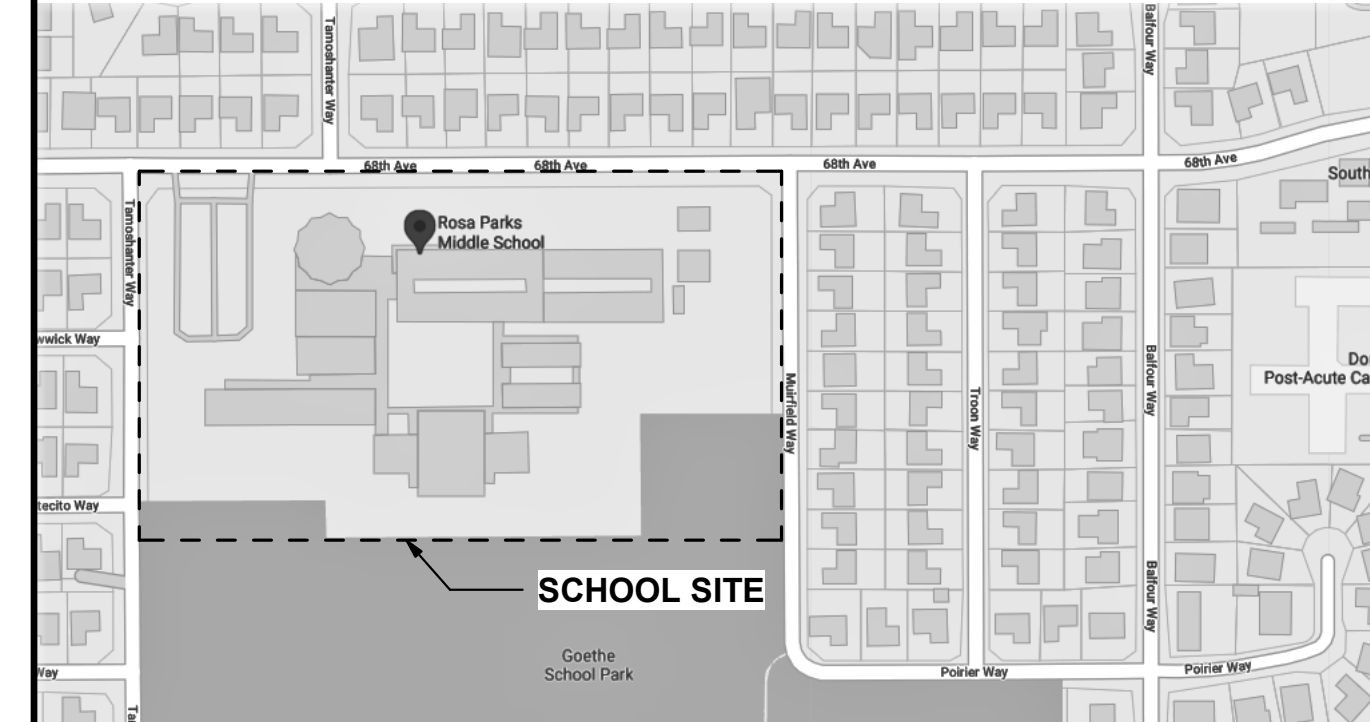
THE FOLLOWING DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE...

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

C-14648 05/31/23 LICENSE NUMBER EXPIRATION DATE LIST COMPLETELY. ITEMS REVIEWED AND ACCEPTED: CIVIL, ELECTRICAL

Revision table with columns for Revision number, Description, and Date.

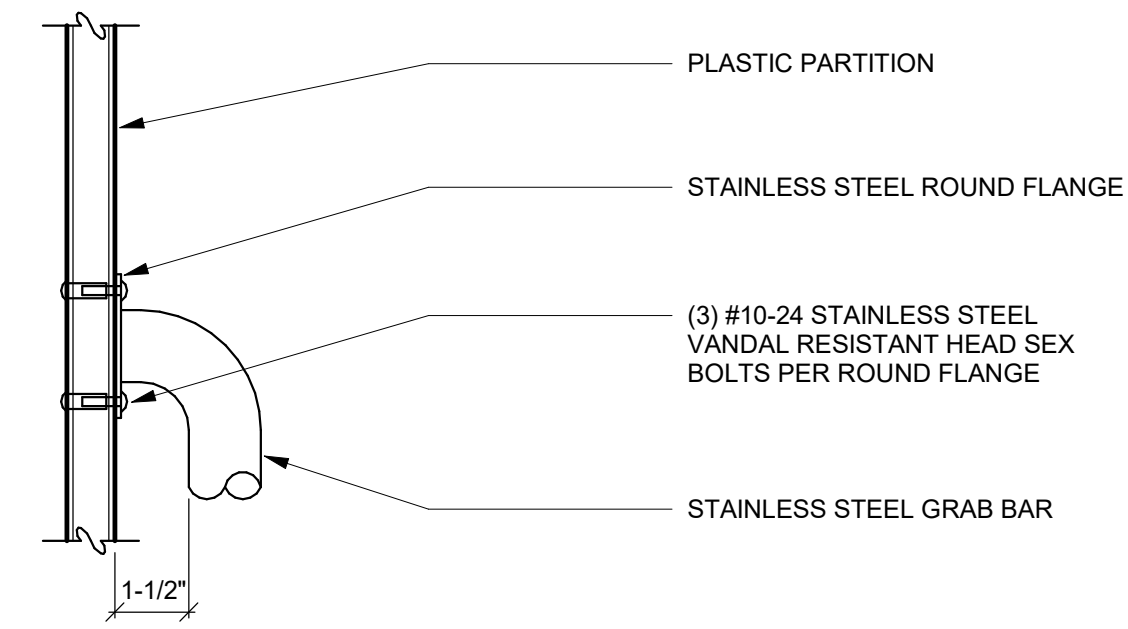
Vicinity Map:



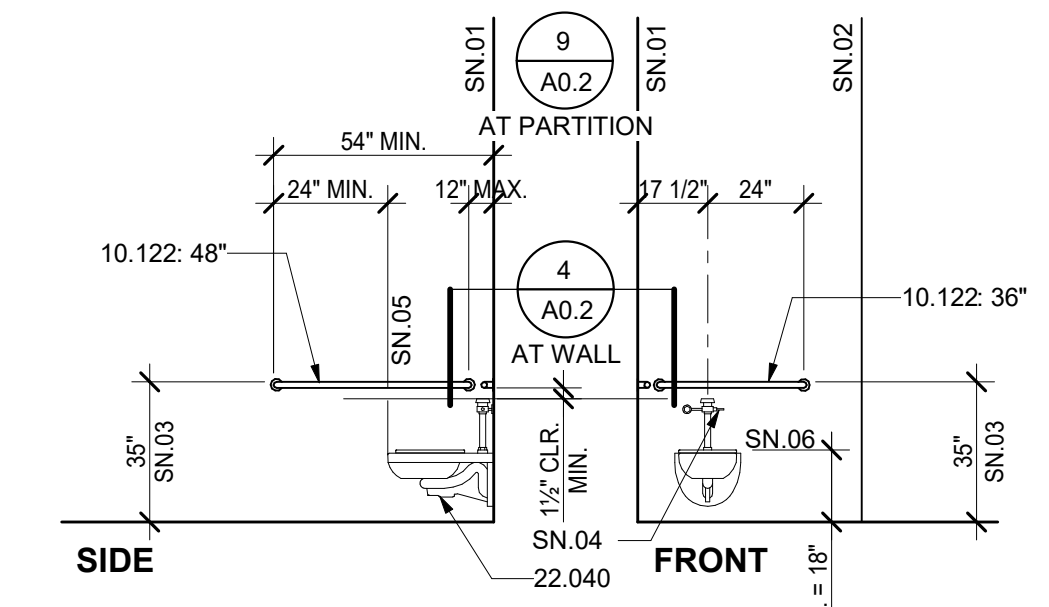
PROJECT NO. 1504.10 DATE: 3/22/2022 SHEET A0.1

Logo for 'irga+' A studio of HMC Architects, including a circular seal with 'PROCESSED ARCHITECTURE' and 'OFFICE OF CALIFORNIA ARCHITECTS'.

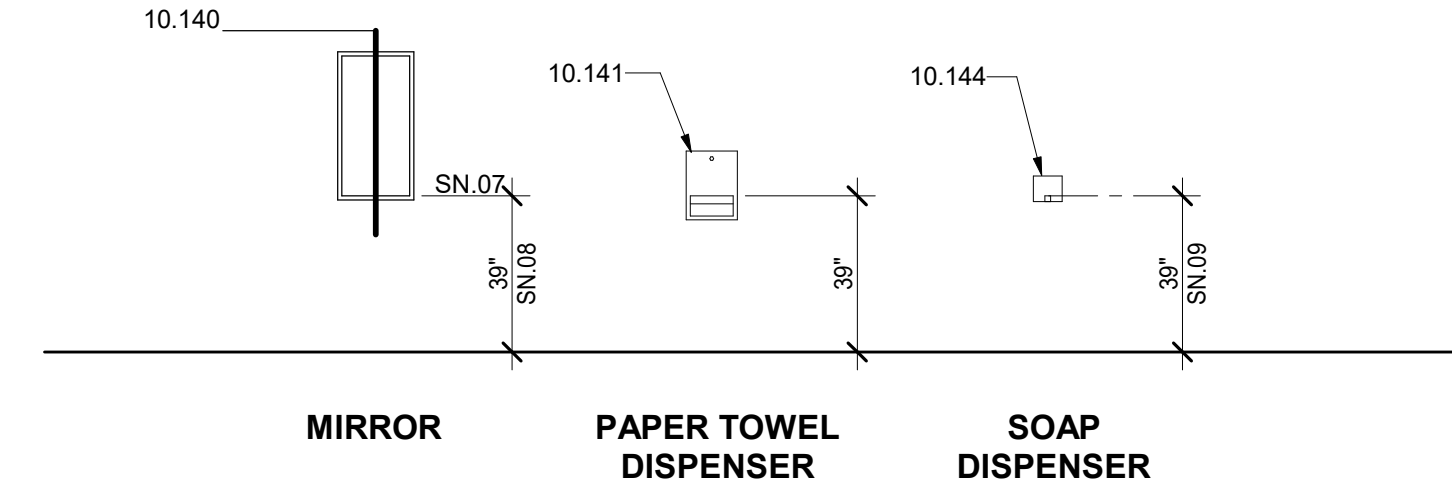
Vertical title block containing project name 'SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL', client name 'SACRAMENTO CITY UNIFIED SCHOOL DISTRICT', and project details.



9 TYPICAL GRAB BAR AT PARTITIONS
3" = 1'-0"

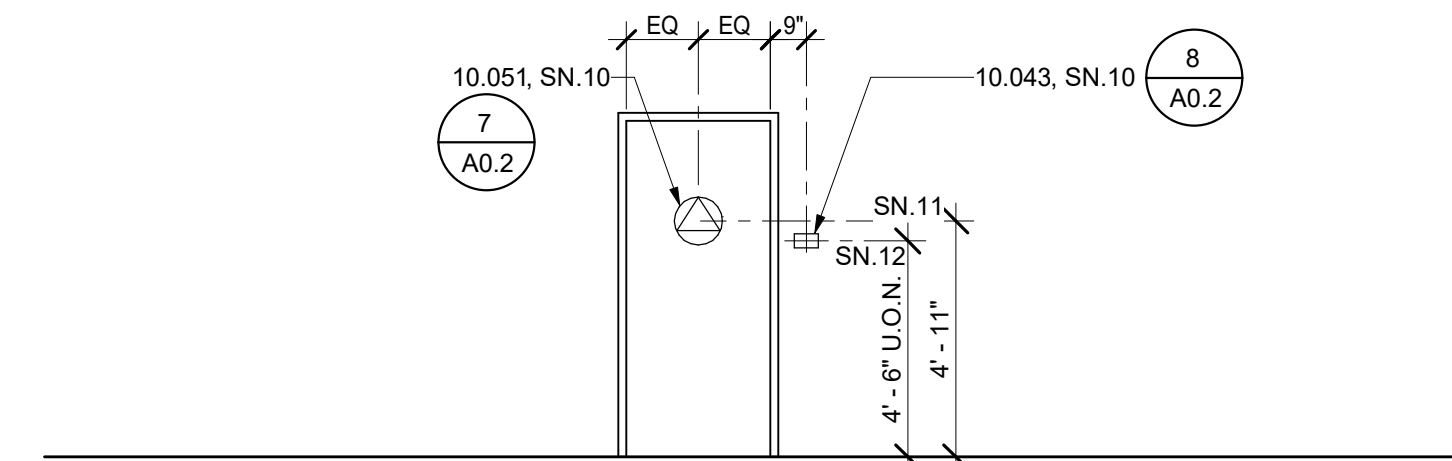


WALL MOUNTED WATER CLOSET



MIRROR PAPER TOWEL DISPENSER SOAP DISPENSER

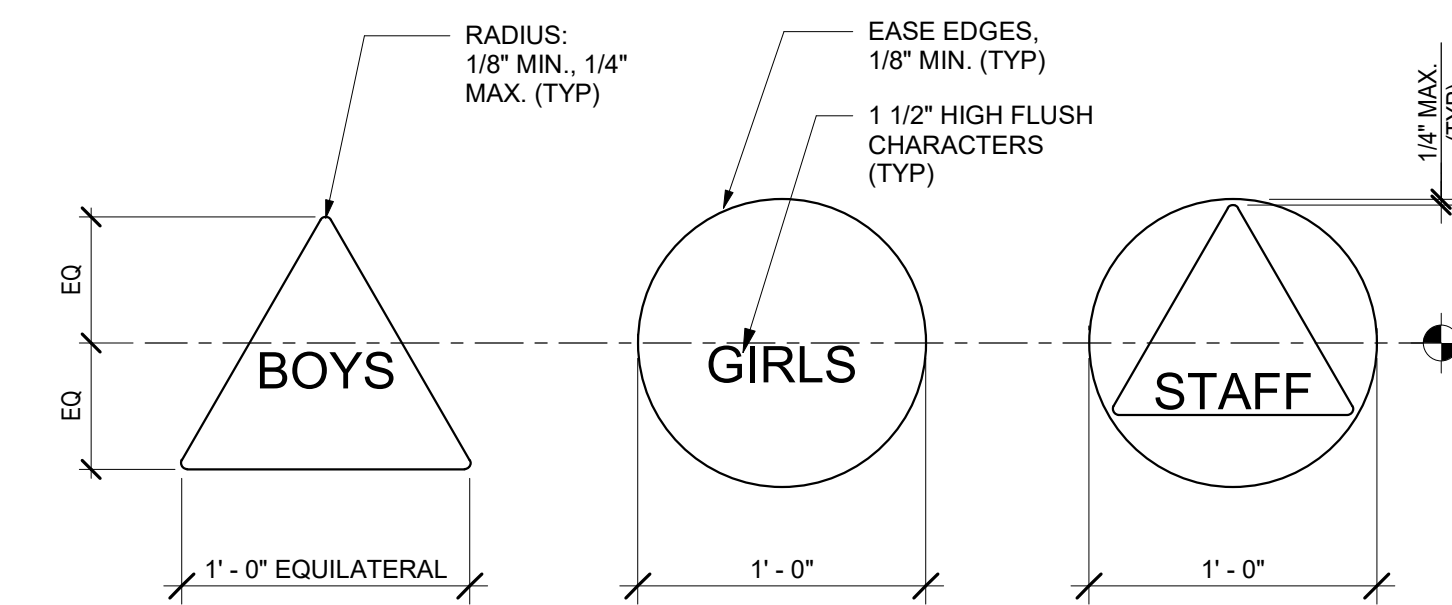
FIXTURE AND ACCESSORY HEIGHTS



SIGNAGE MOUNTING

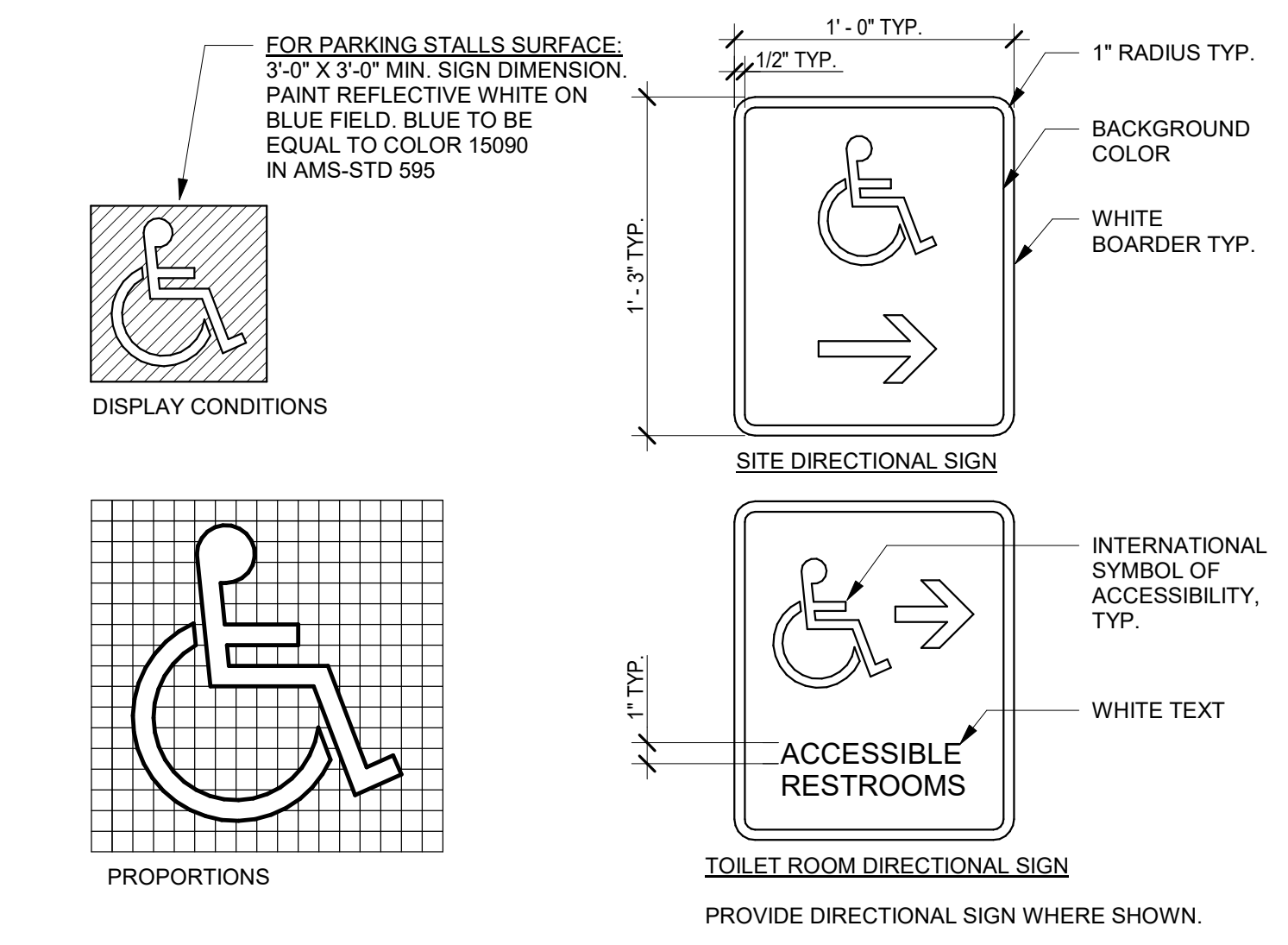
FURNITURE EQUIPMENT HEIGHTS

6 TYPICAL MOUNTING HEIGHTS AND DETAILS
1/4" = 1'-0"

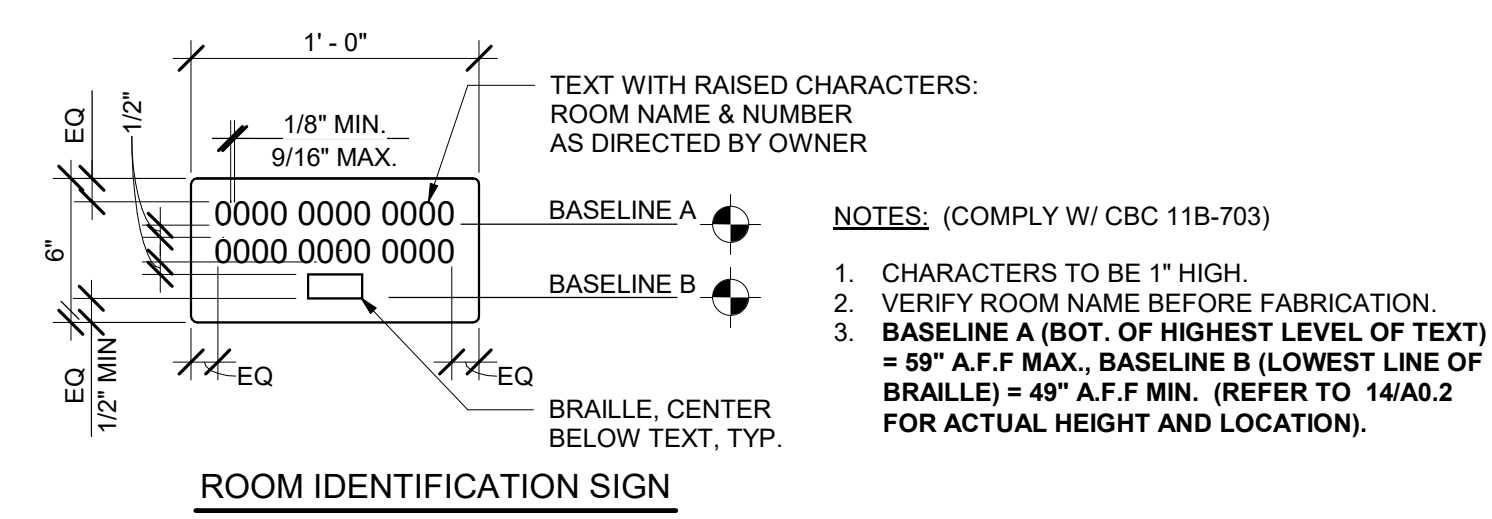
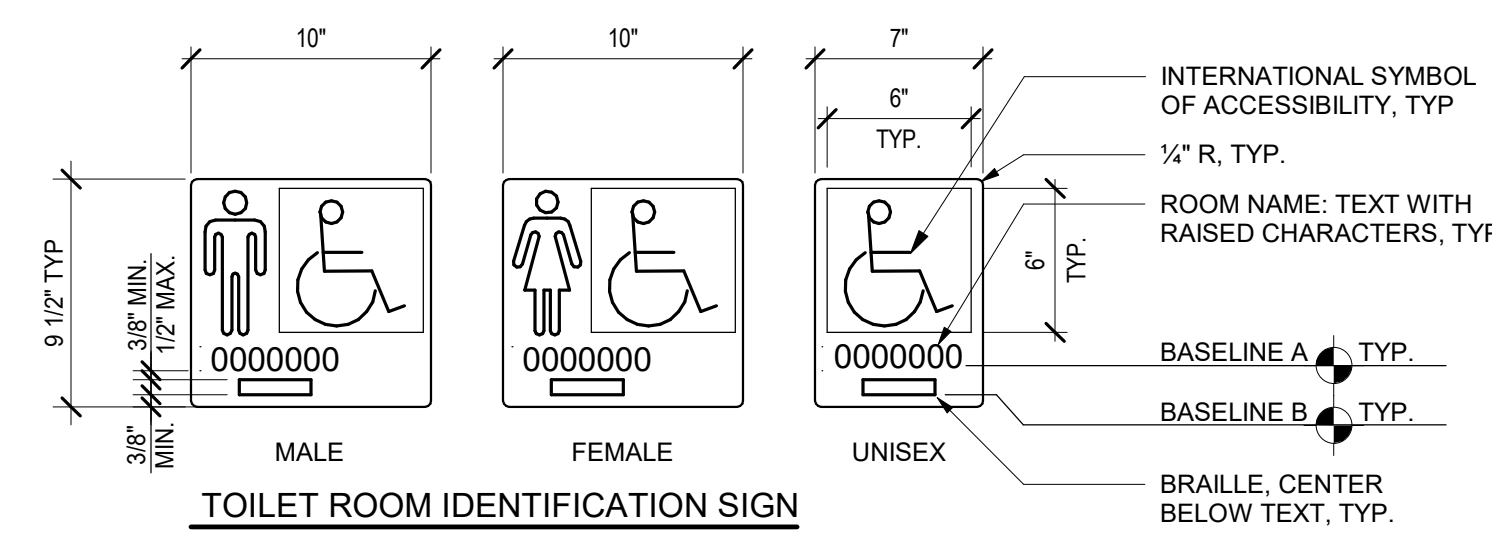


NOTE:
1. TEXT ON DOOR SYMBOL TO BE AS INDICATED ON DRAWINGS

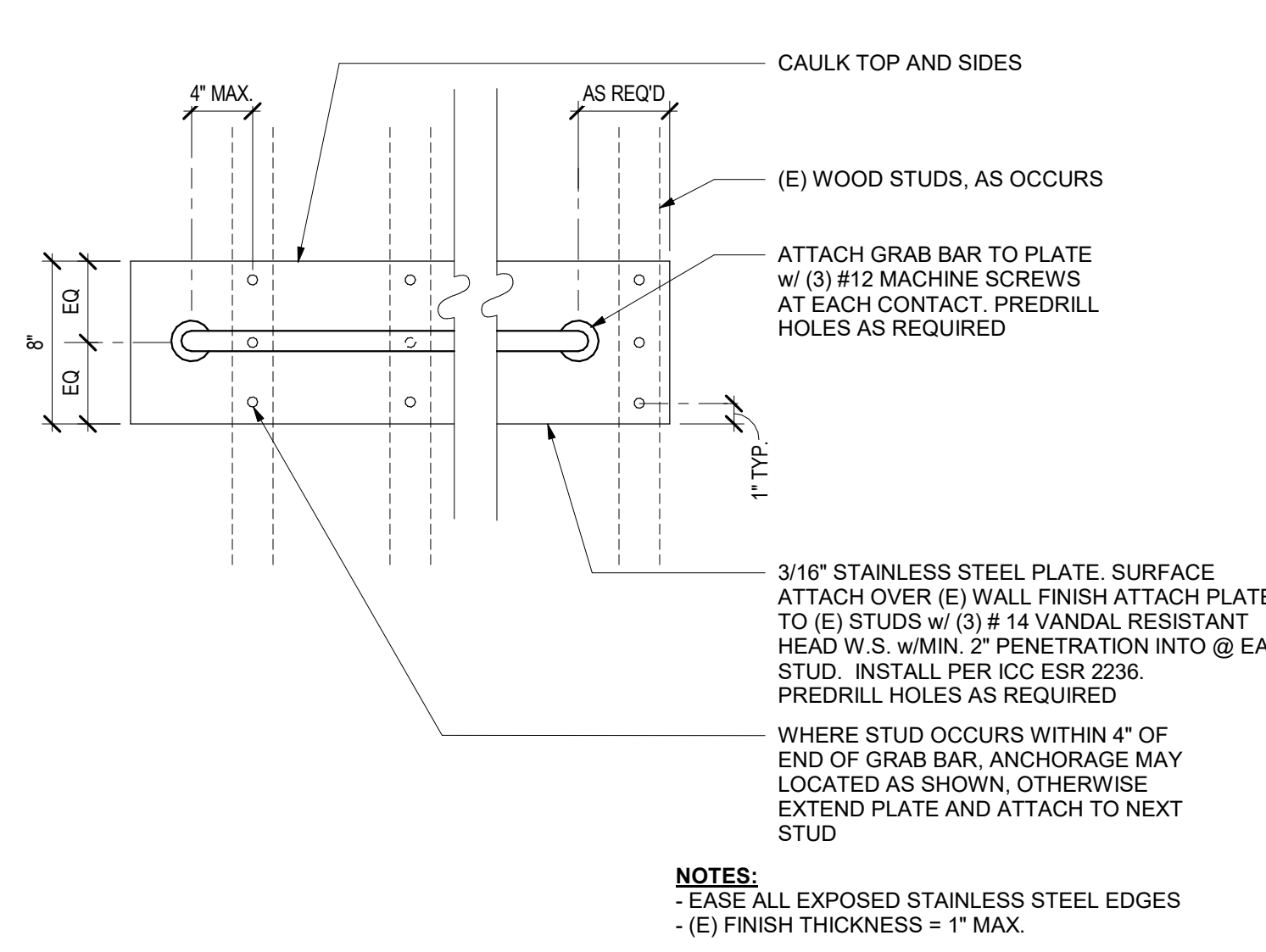
7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"



3 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



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



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

GENERAL NOTES

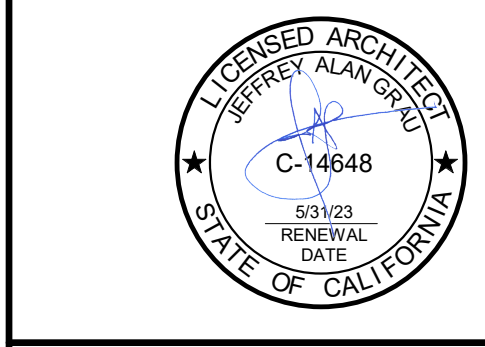
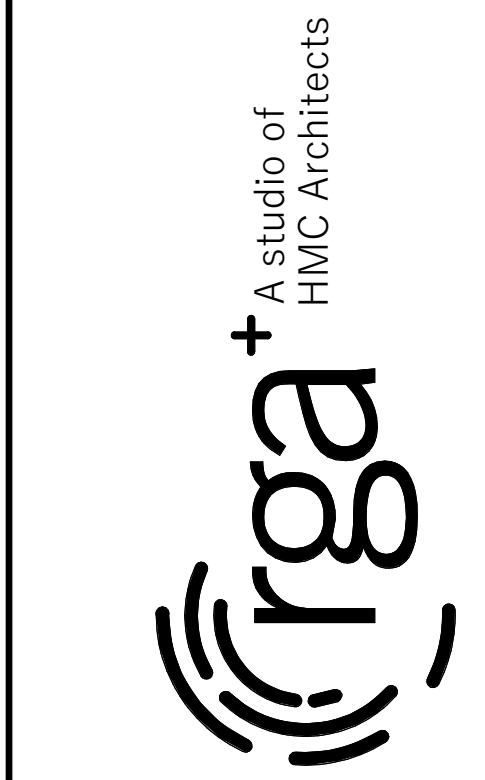
1. TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
2. ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
3. HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

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 FRONT EDGE OF WATER CLOSET.
SN.06 TOP OF SEAT
SN.07 BOTTOM EDGE OF REFLECTIVE SURFACE
SN.08 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV. OR COUNTER; TOP OF MIRROR 74" MIN. FOR HIGH SCHOOL & ADULTS.
SN.09 TO CENTERLINE CONTROL.
SN.10 PROVIDE AT ALL TOILET ROOM DOORS
SN.11 CENTERLINE OF SYMBOL
SN.12 CENTERLINE OF SIGN.

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



SHADE STRUCTURE AT ROSA PARKS
MIDDLE SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

TYPICAL MOUNTING HEIGHTS AND DETAILS

PROJECT NO. 1504.10
DATE: 3/22/2022
SHEET A0.2

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DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: ROSA PARKS SHADE STRUCTURE
 Project address: 2250 68TH AVENUE, SACRAMENTO, CA 95822

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 checked="" type="checkbox"/>	
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" 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 checked="" 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) <i>(If any designations are checked, project design must meet the requirements of CBC Chapter 7A)</i>		WIFA <input type="checkbox"/>		

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	NIR
4.	Emergency vehicle access roadways do not meet CFC requirements				
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				
5.	Fire Hydrants: Number and spacing does not meet CFC requirements				
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				
6.	Fire Hydrants: Water flow and pressure are less than CFC minimum.				
6a.	Acceptable Alternative: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.				
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.				

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

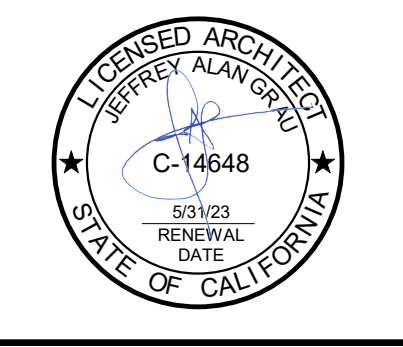
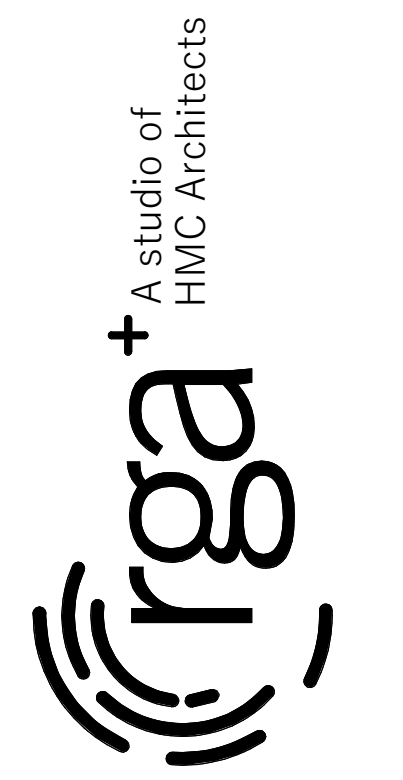
- - - - - PROPERTY LINE
- [X] UNIT DESIGNATION SHADE STRUCTURE
- [Hatched Box] UNIT DESIGNATION EXISTING BUILDINGS
- [Dotted Box] CONCRETE WALK / PAVING
- [Stippled Box] ASPHALT CONCRETE PAVING
- [Cross-hatched Box] (E) EMERGENCY ACCESS LANE
- [Dashed Line] (E) CHAIN LINK FENCE
- [Symbol] (E) FIRE HYDRANT (NTS)

SHEET NOTES

- SN.01 (E) FIRE HYDRANT
- SN.02 (E) 20'-0" WIDE GATE WITH KNOX LOCK BOX

BUILDING DESIGNATIONS

- UNIT A - CLASSROOMS
- UNIT B - ADMINISTRATION AND CLASSROOMS
- UNIT C - CLASSROOMS
- UNIT D - GYMNASIUM
- UNIT E - CLASSROOMS
- UNIT F - MULTIPURPOSE
- UNIT G - CLASSROOMS
- UNIT H - TOILET ROOMS
- UNIT I - CLASSROOMS
- UNIT J - CLASSROOMS



SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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LOCAL FIRE AUTHORITY SITE PLAN

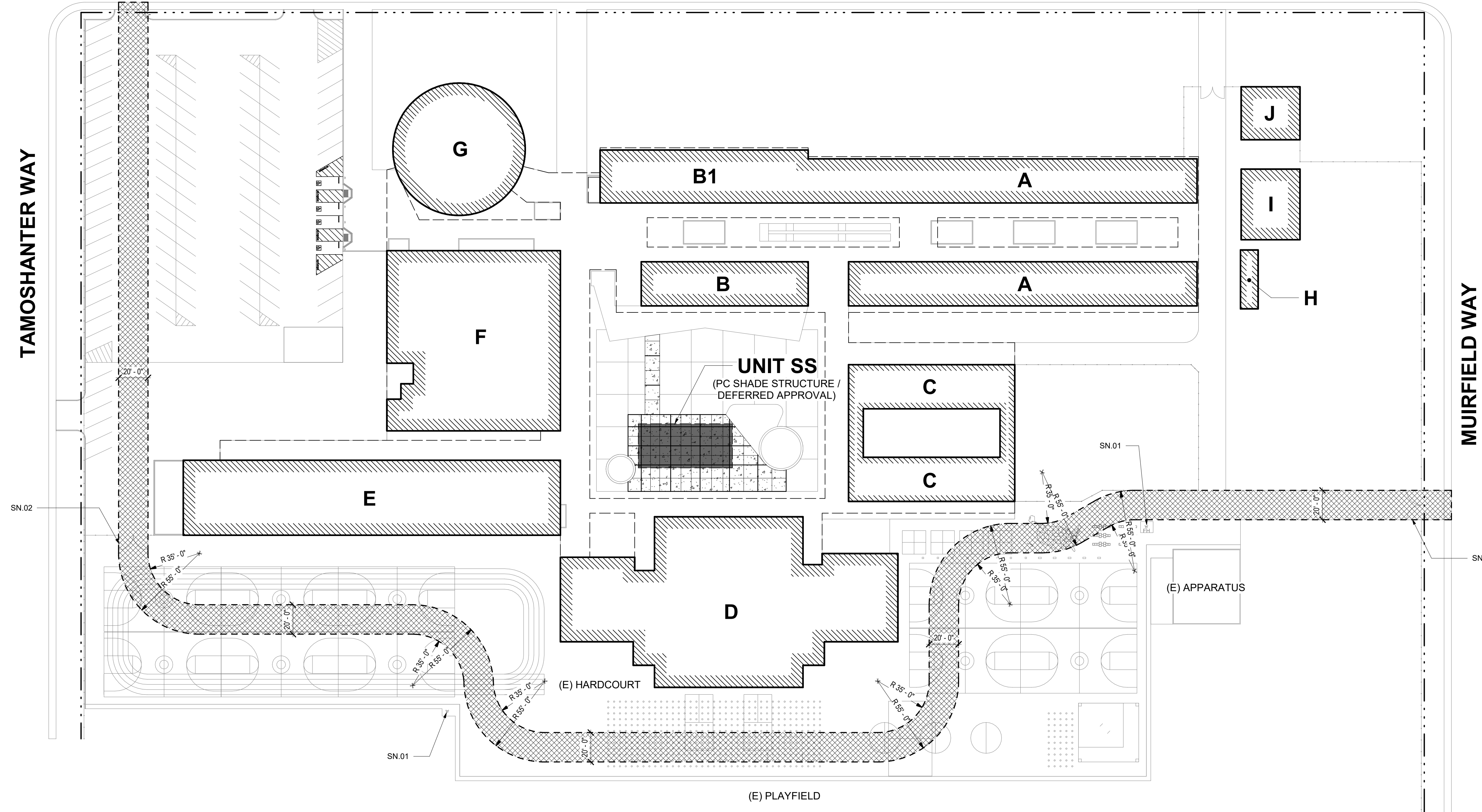
SEE OTHER SHEETS FOR CONSTRUCTION

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

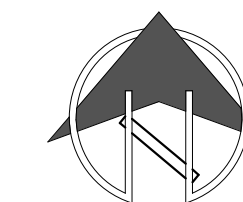
PROJECT NO. 1504.10
 DATE: 3/22/2022
 SHEET

A0.7

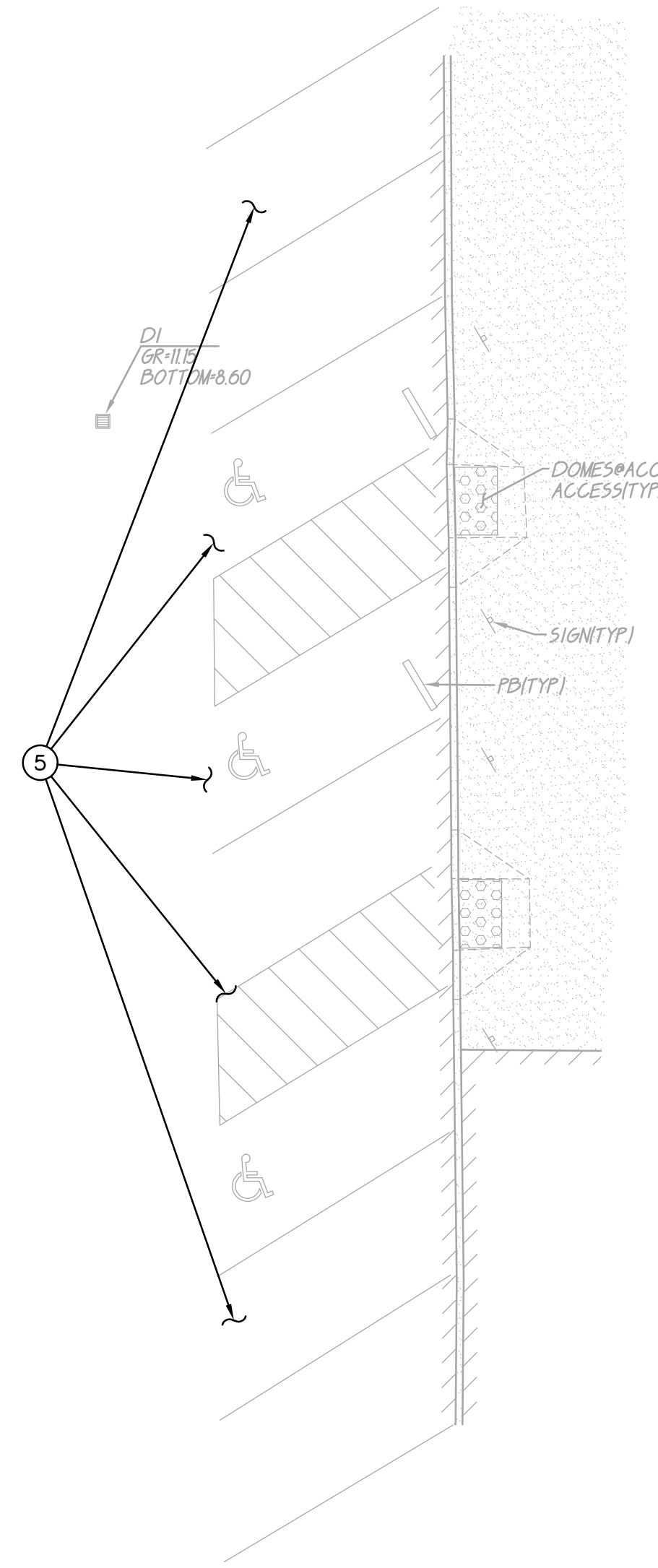
68TH AVENUE



1 LOCAL FIRE AUTHORITY PLAN
 1" = 40'-0"

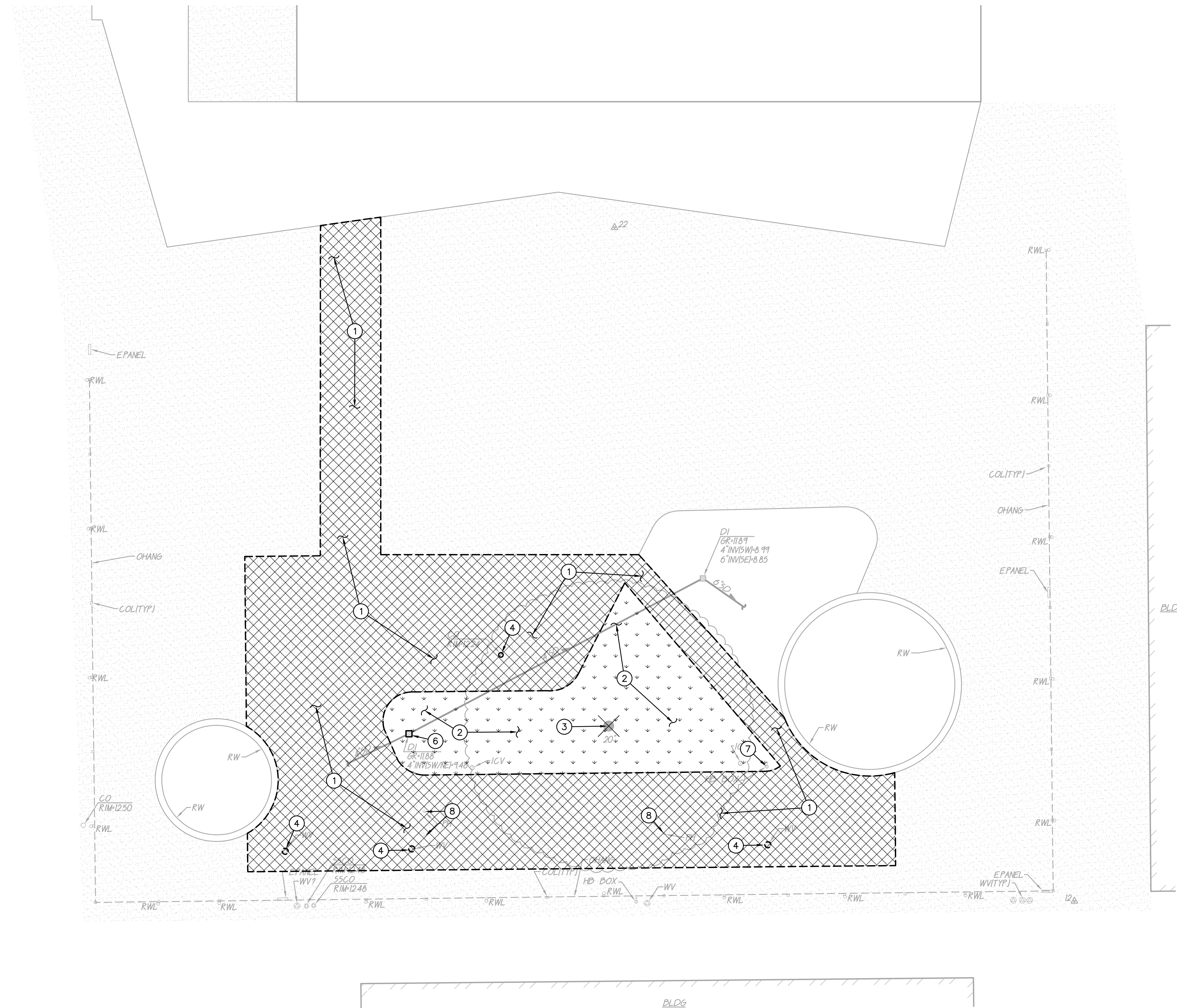


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DEMOLITION PLAN - ACCESSIBLE PARKING

SCALE: 1"=10'



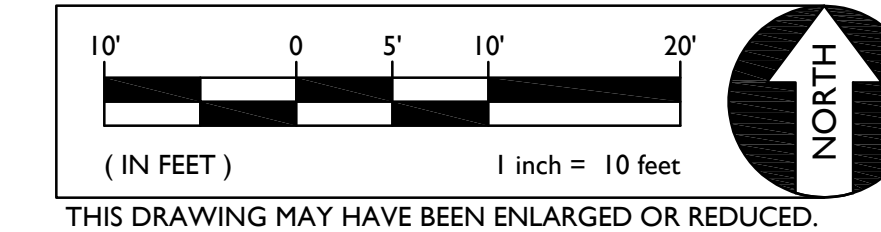
DEMOLITION PLAN - SHADE STRUCTURE

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. 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.
3. REMOVE AND DISPOSE OF EXISTING TREE, TRUNK AND ASSOCIATED ROOTS.
4. REMOVE EXISTING UTILITY BOX AND/OR FRAME AND COVER AND PROVIDE NEW. NEW BOX SHALL BE SIMILAR IN SIZE, BUT WITH TRAFFIC RATING AND SLIP RESISTANT COVER.
5. BLACK OUT EXISTING STRIPING.
6. REMOVE AND DISPOSE OF EXISTING DROP INLET.
7. REMOVE AND DISPOSE OF EXISTING HOSE BIBB.
8. REMOVE AND DISPOSE OF EXISTING POST HOLE AND ASSOCIATED FOOTING.

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.



SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

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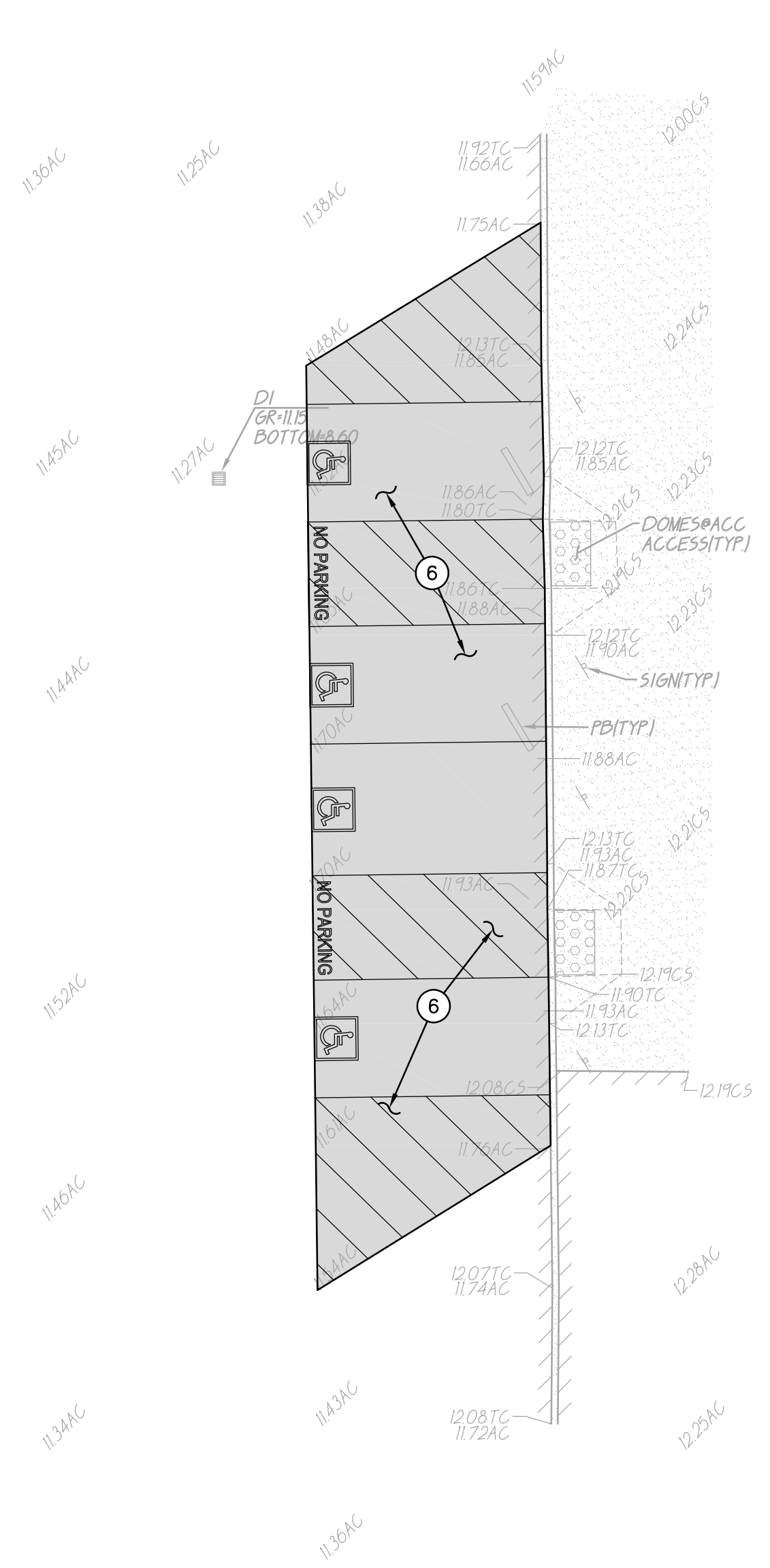
DEMOLITION PLAN

PROJECT NO. 1504.10
DATE: 3/21/2022
SHEET

C1.1

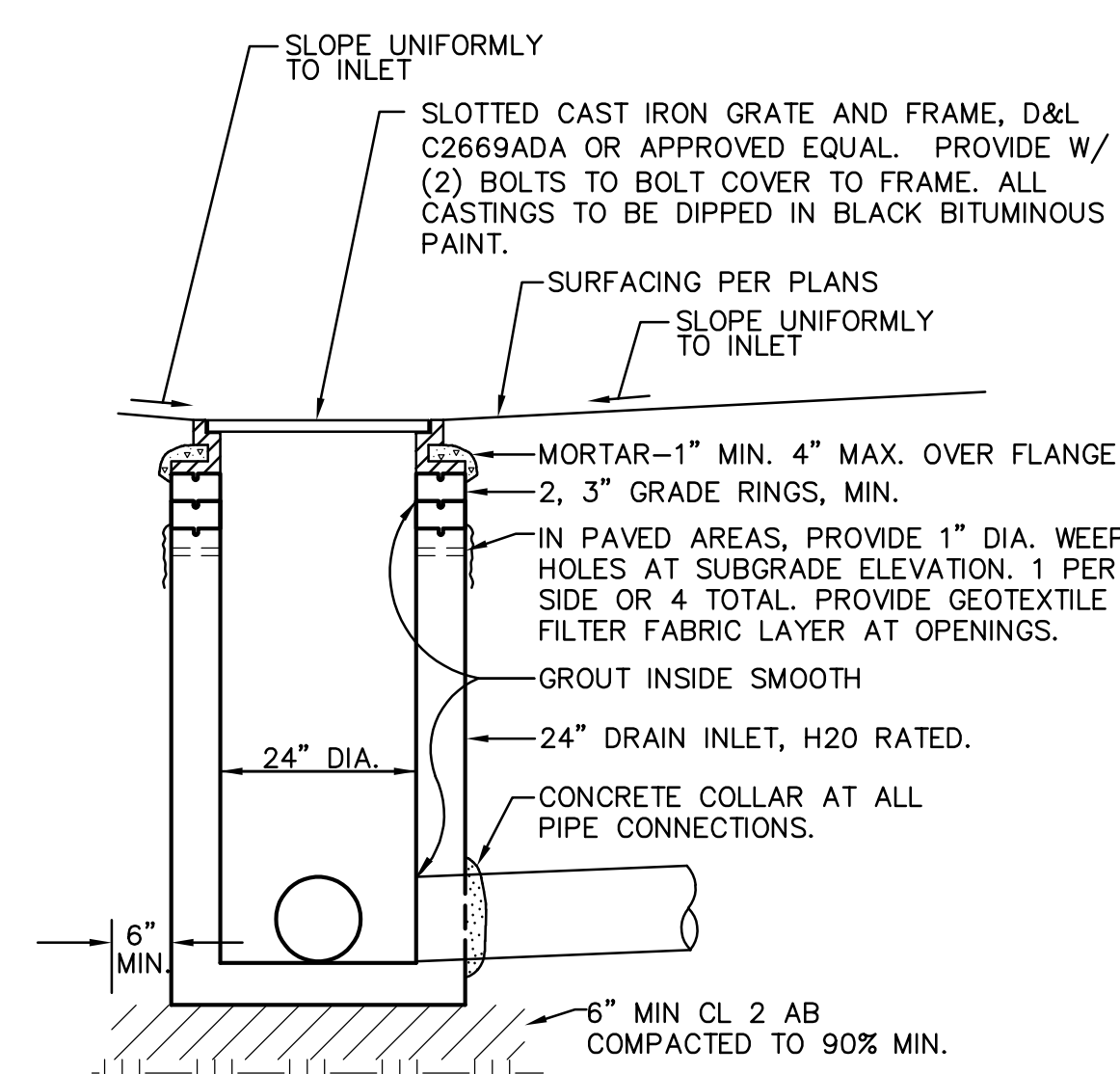
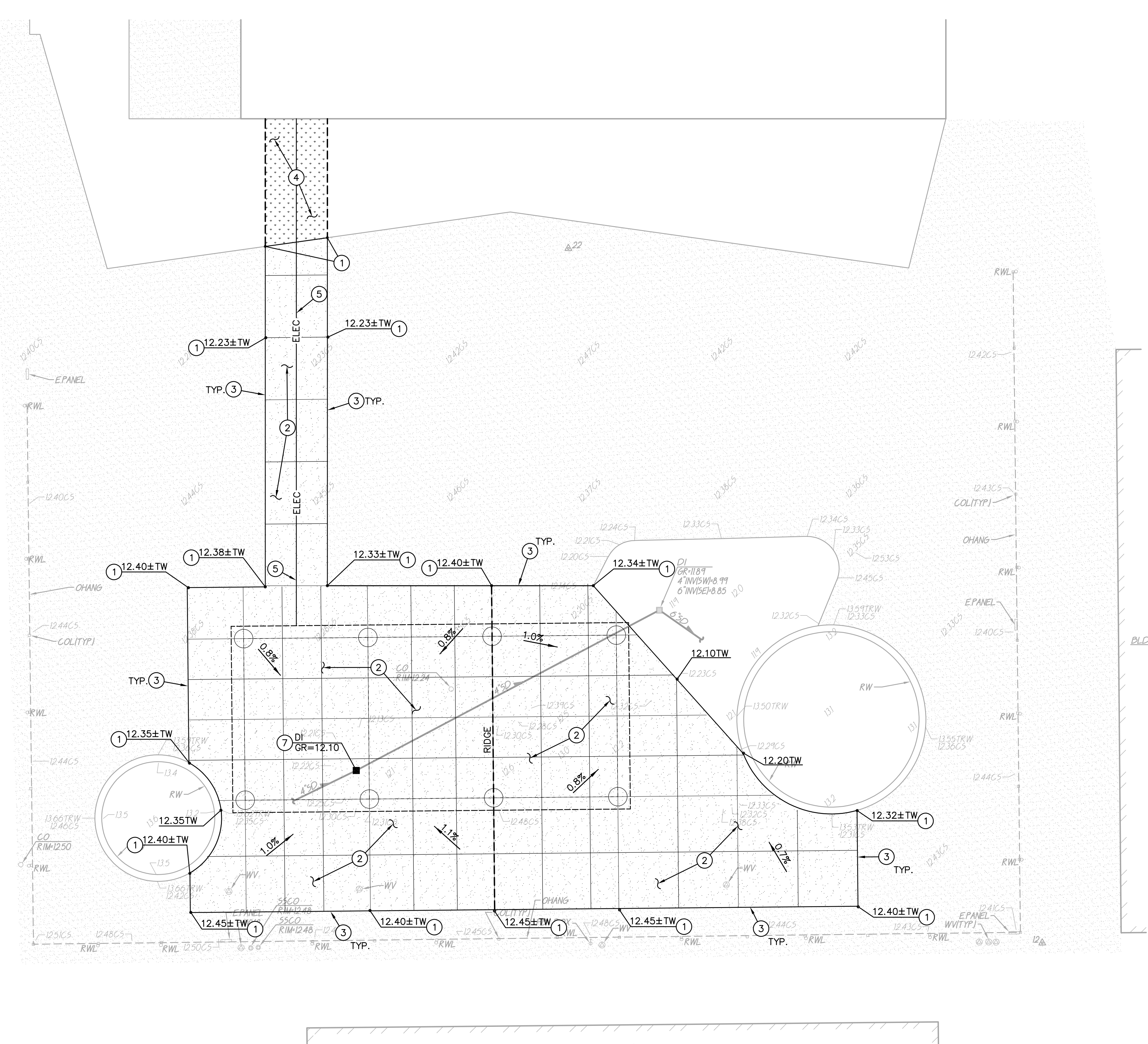
GRADING AND PAVING PLAN - ACCESSIBLE PARKING

SCALE: 1"=10'

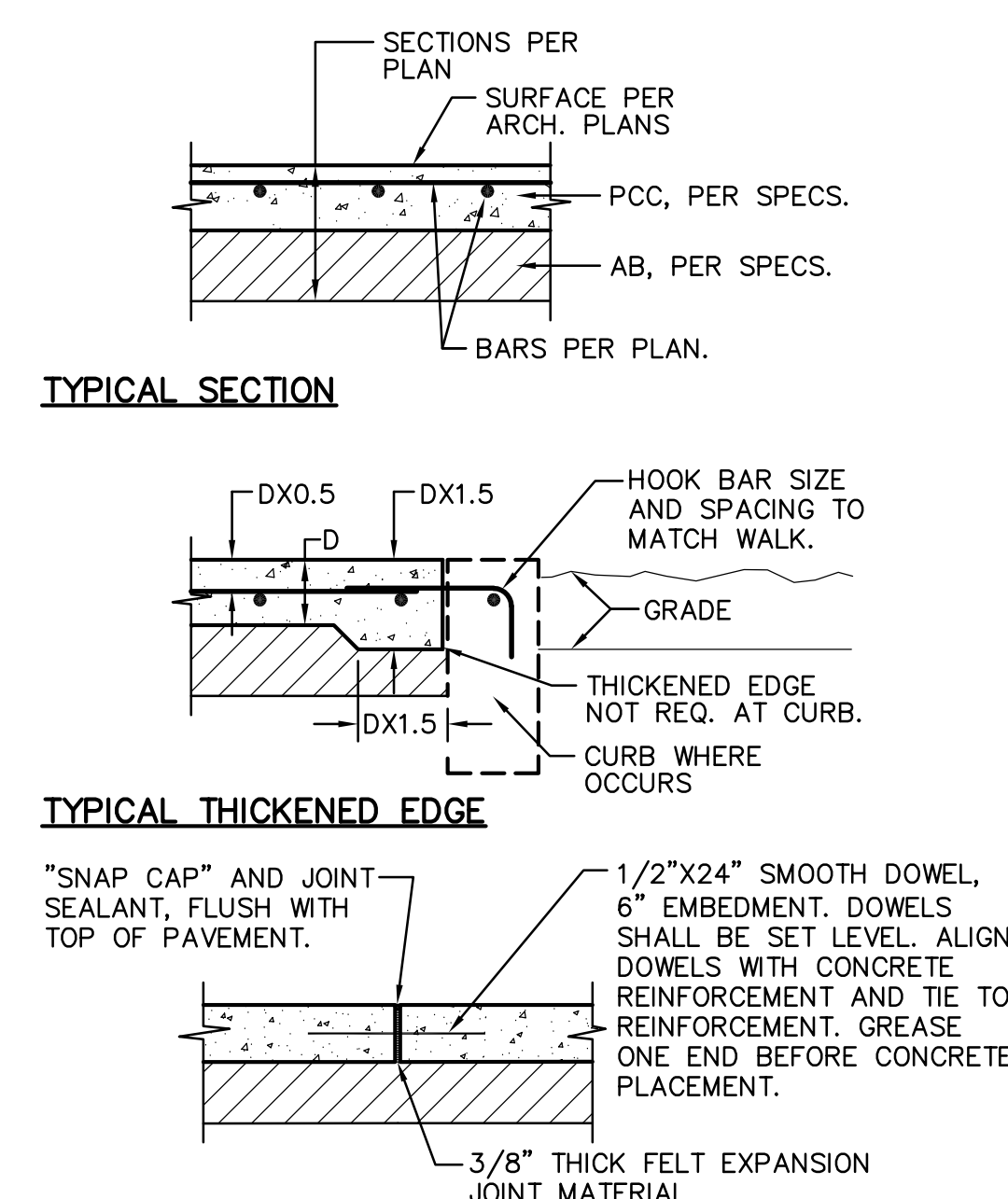


GRADING AND PAVING PLAN - SHADE STRUCTURE

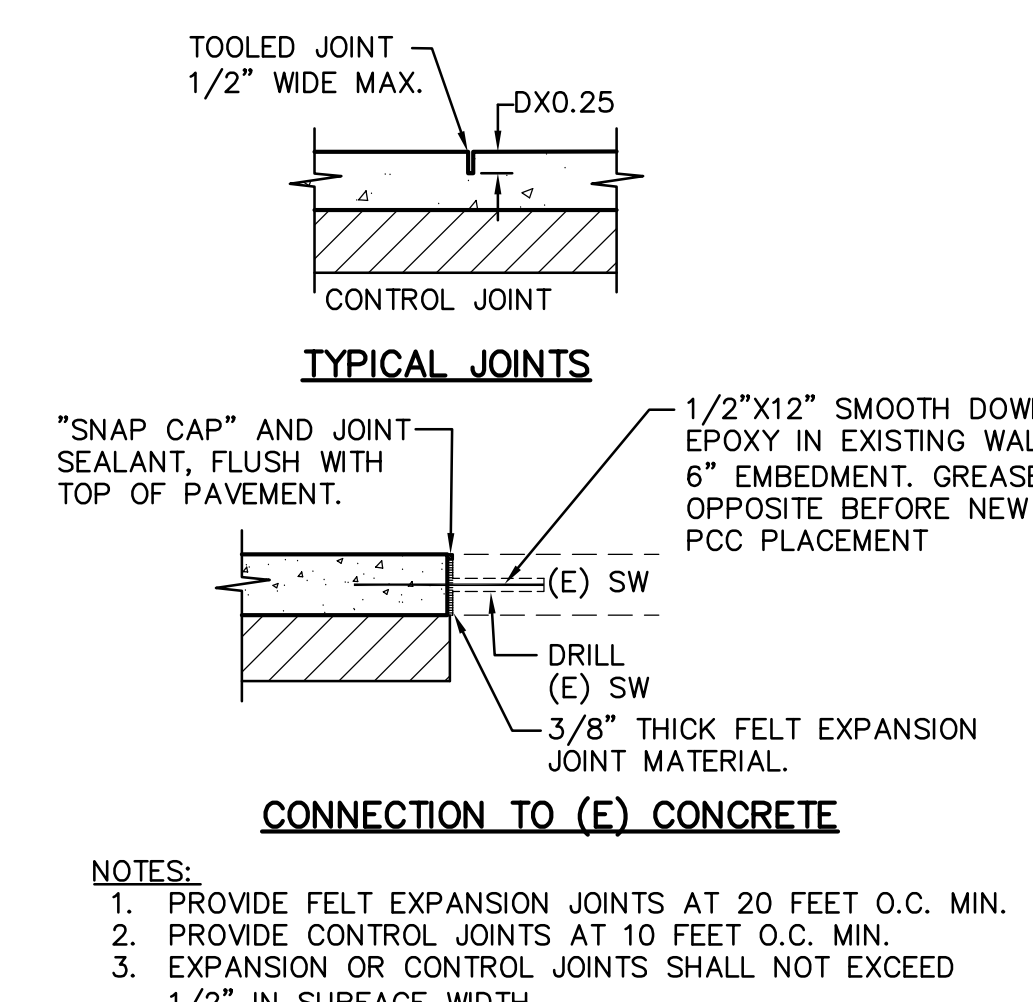
SCALE: 1"=10'



2 C2.1 DROP INLET NO SCALE



1 C2.1 CONCRETE SIDEWALK NO SCALE



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

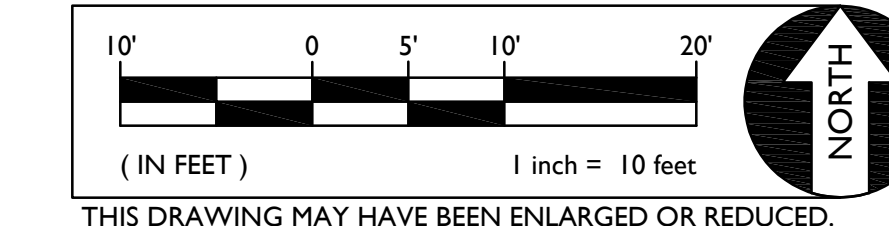
SUBGRADE PREPARATION

- 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 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.
- REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.
- CRACK FILL AND PLACE TWO (2) APPLICATIONS OF SEAL COAT PRIOR TO STRIPING.
- CONSTRUCT DROP INLET PER C2.1 CONNECT INLET TO EXISTING STORM DRAIN PIPE.

GRAPHIC SCALE



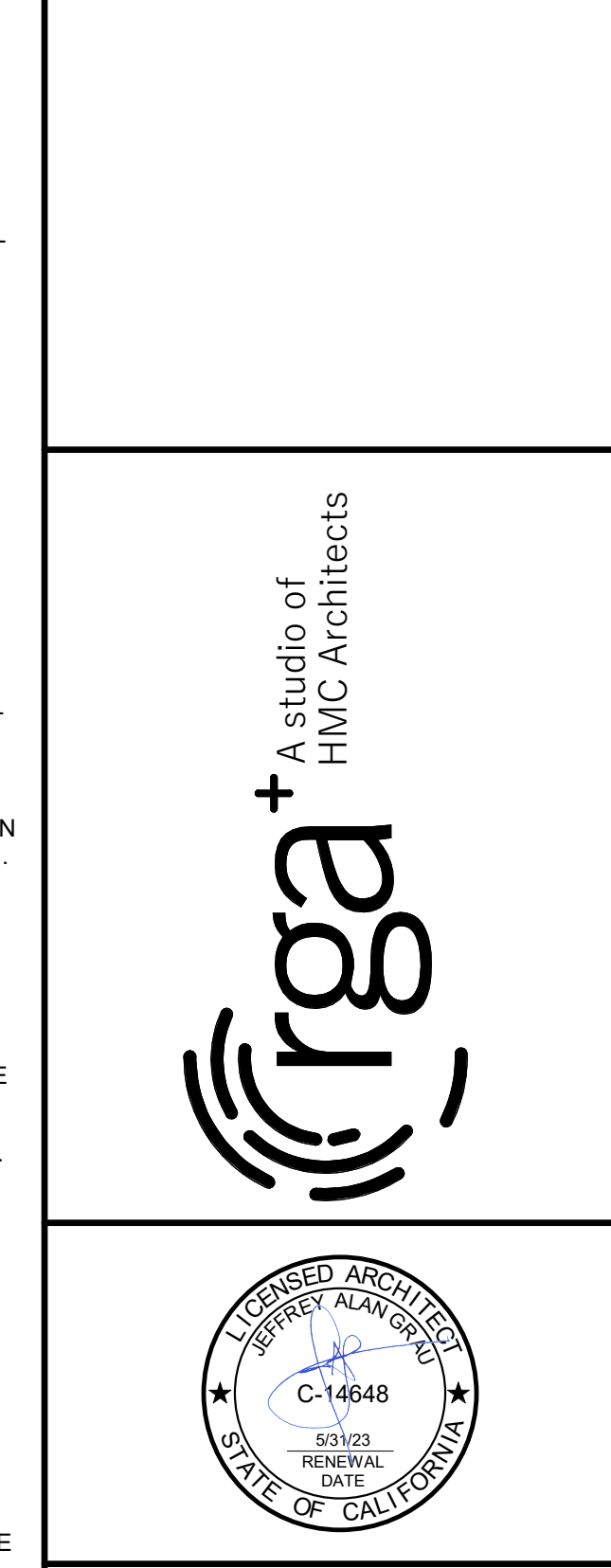
EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT
 DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, 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:
 1) HAVE BEEN IDENTIFIED AND
 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.
 ANY 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: 100 STALLS (TABLE 11B-208.2)
 ACCESSIBLE PARKING STALLS: 4 (76-100 TOTAL STALLS)
 REQUIRED VAN ACCESSIBLE STALLS: 1 (1-4 ACCESSIBLE STALLS)
 ACCESSIBLE STALLS PROVIDED: 2 STANDARD & 2 VAN

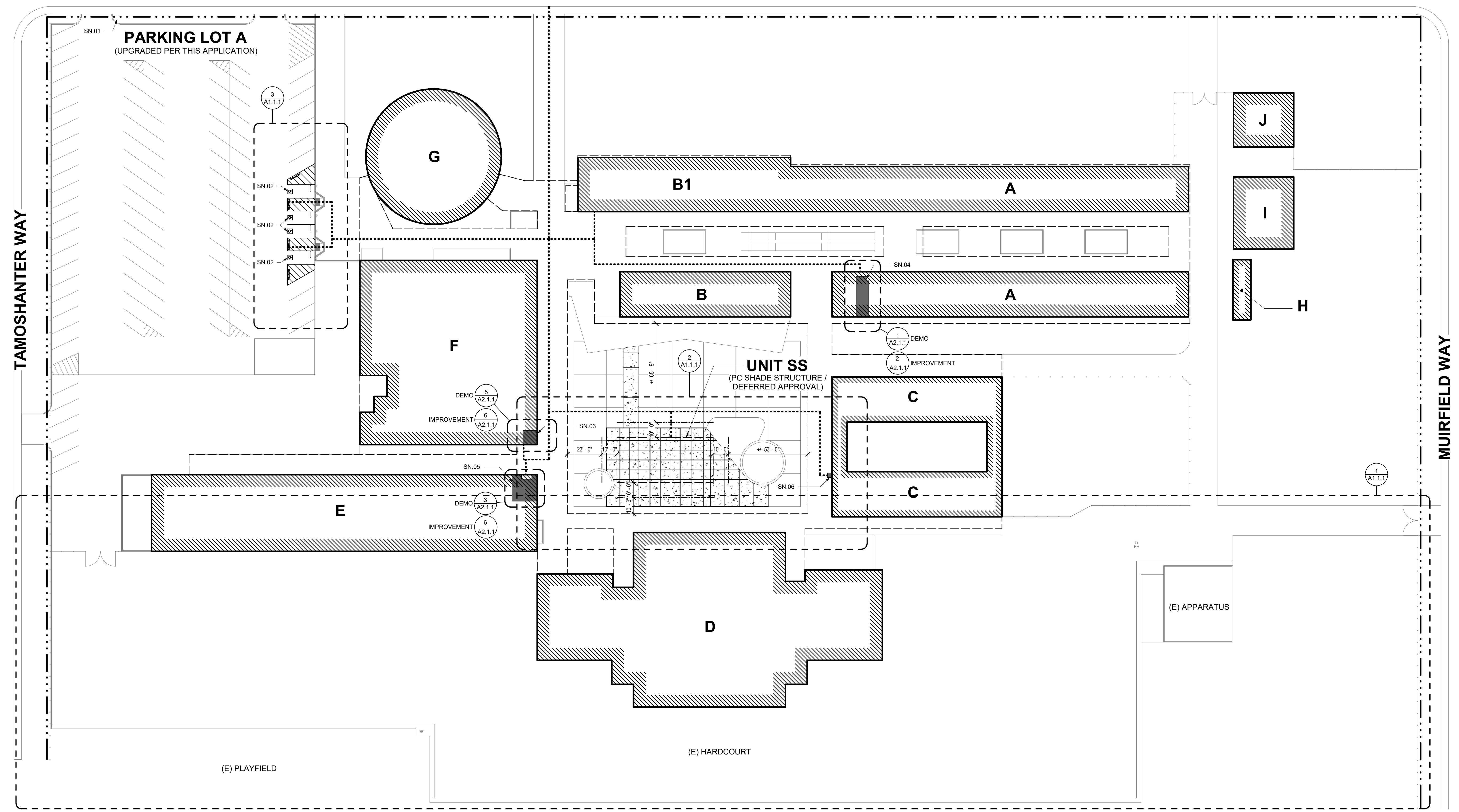
PROPOSED SHADE STRUCTURE				
UNIT	DESCRIPTION	CONSTRUCTION TYPE	OCCUPANCY	ALLOWABLE AREA
SS	SHADE STRUCTURE	I-B OR	A-3	9,500 SF MAX
		V-B	A-3	6,000 SF MAX

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	CLASSROOMS	20122, 02-105874	15,337	
B-B1	ADMINISTRATION / CLASSROOMS	20122, 02-105874, THIS APPLICATION	23,920	
C	CLASSROOMS	20122, 02-105874, 02-113059	7,843	
D	GYMNASIUM	20122, 02-105874	19,553	
E	CLASSROOMS	20122, 02-105874, THIS APPLICATION	13,027	
F	MULTIPURPOSE	20122, 02-105874, THIS APPLICATION	14,455	
G	CLASSROOMS	20122, 02-105874	6,082	
H	TOILET ROOMS	02-102064	480	
I	RELOCATABLE CLASSROOMS	02-102064	1,920	
J	RELOCATABLE CLASSROOMS	02-104396	1,380	

- LEGEND**
- 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.
 - 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 23 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).



68TH AVENUE



- SHEET NOTES**
- SN 01 PARKING LOT ENTRANCE SIGN PER THIS APPLICATION. SEE 4 A1.1.1
 - 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 PER DSA APPLICATION #02-105874

SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

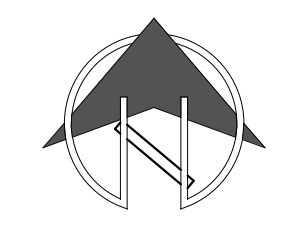
Revision

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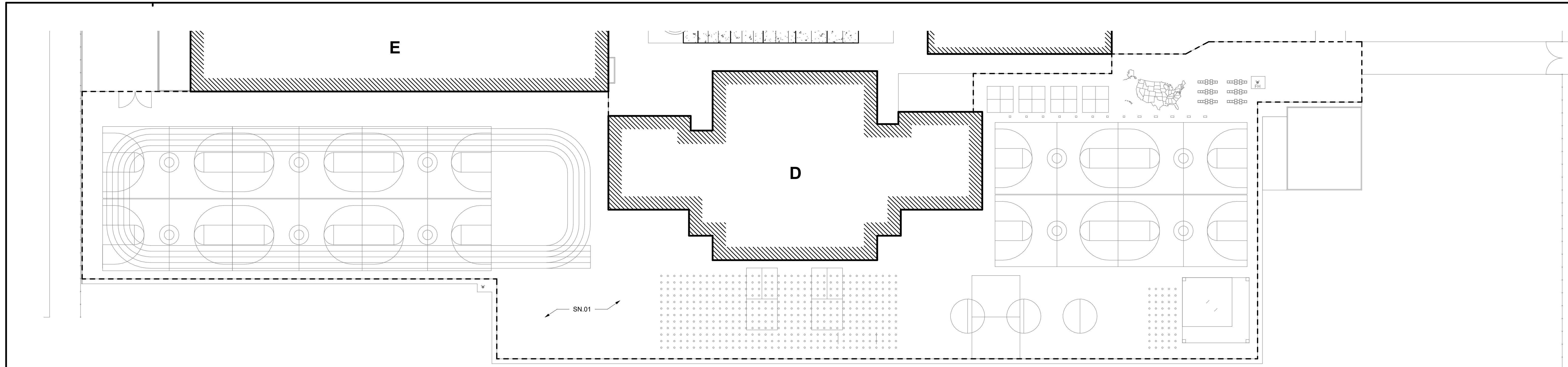
SITE PLAN AND CODE INFORMATION

PROJECT NO.	1504.10
DATE:	3/22/2022
SHEET	A1.1.0

1 SITE PLAN
 1" = 30'-0"



C:\Users\mkg\Documents\1504.10_Beam Book_College.dwg, 3/22/2022, 10:58:10 AM

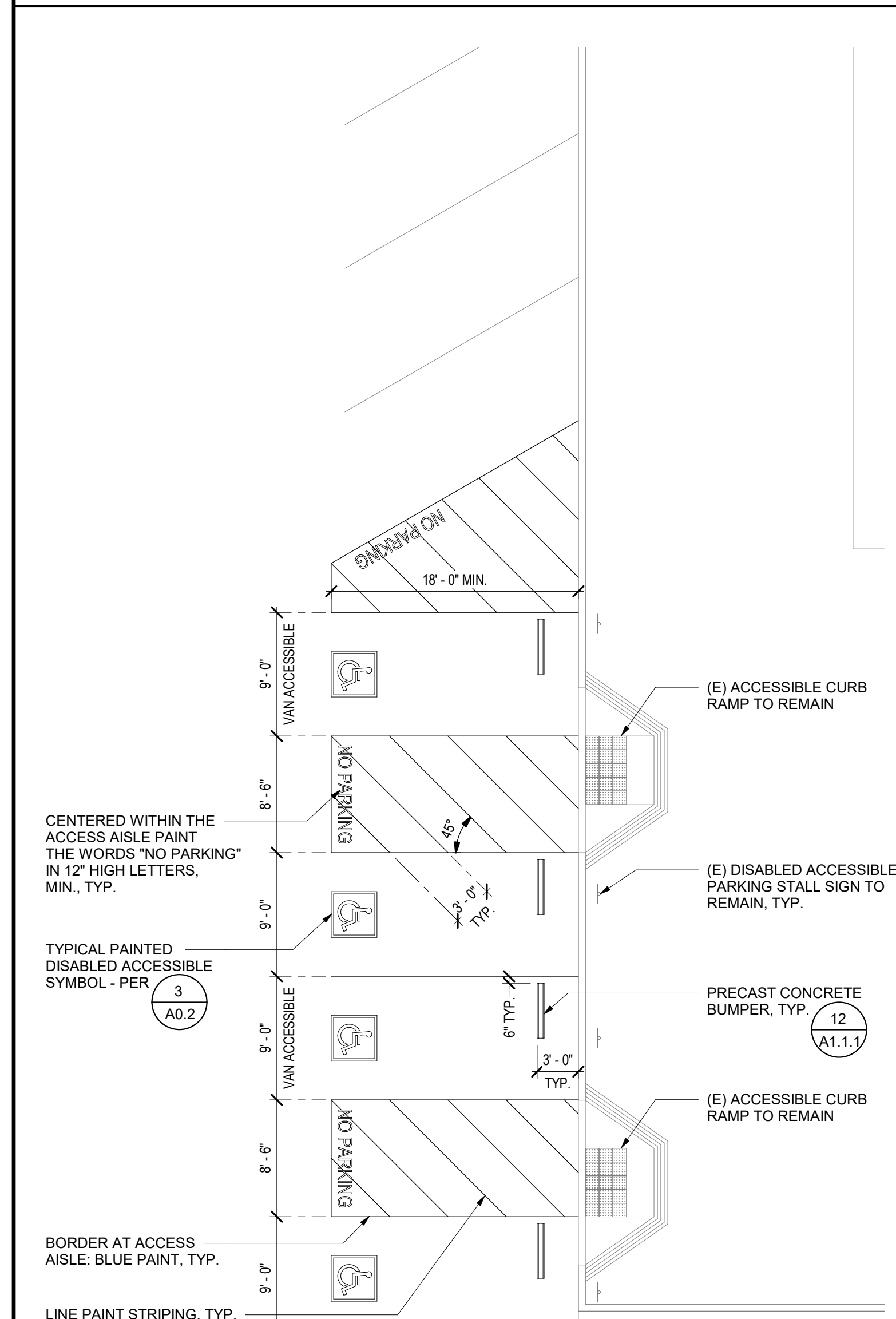
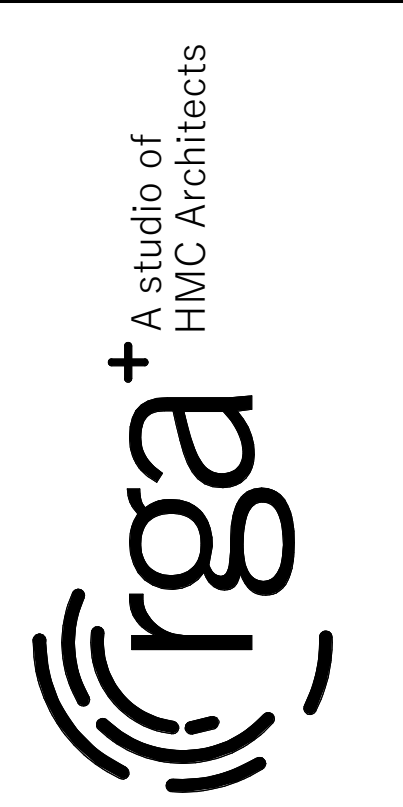


1 ENLARGED PLAN - STRIPING
1" = 30'-0"

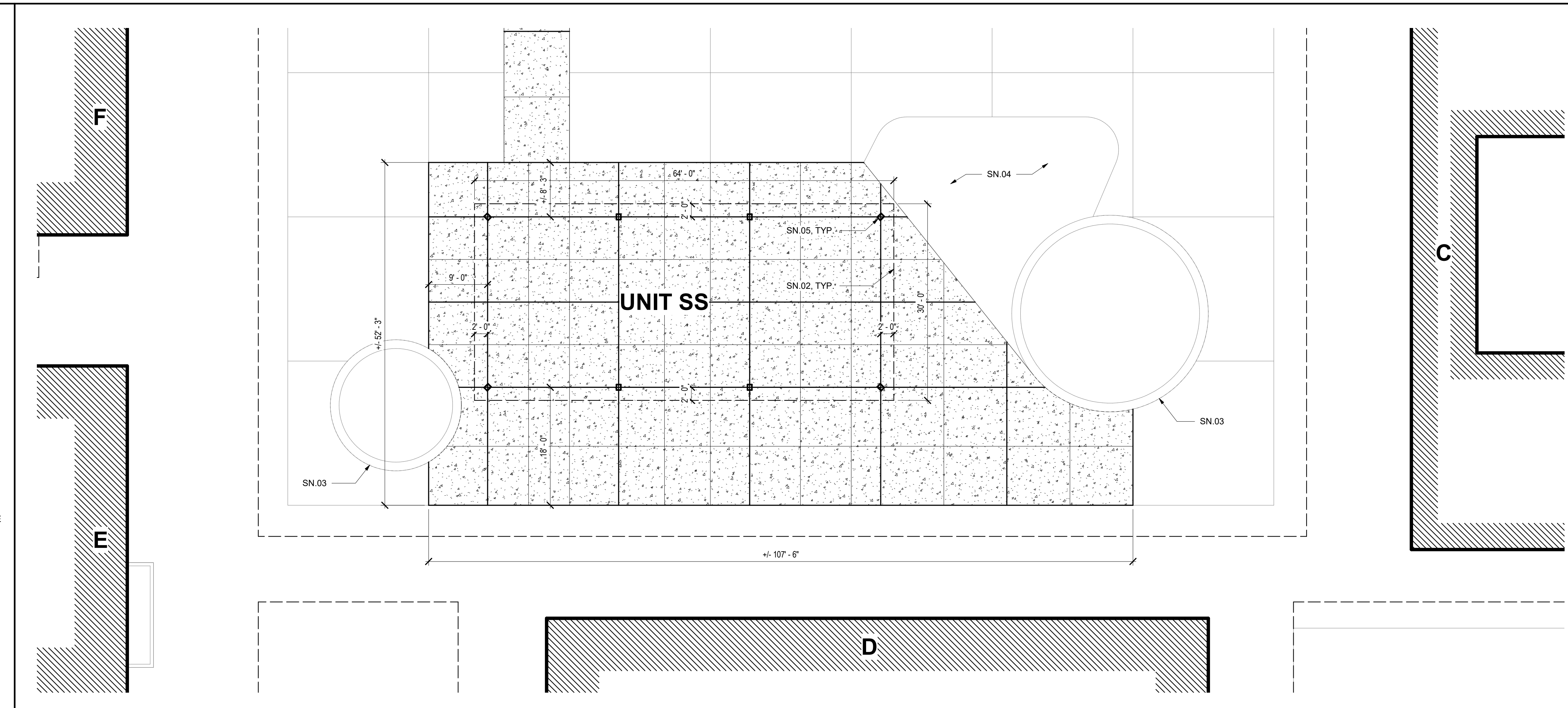
- LEGEND**
- - - - - PROPERTY LINE
 - [X] UNIT DESIGNATION
PC SHADE STRUCTURE / DEFERRED APPROVAL
 - [Hatched] UNIT DESIGNATION
EXISTING BUILDINGS
 - [Dashed] EXPANSION JOINT
 - [Grid] CONCRETE WALK / PAVING
CONTROL JOINT
 - [Stippled] ASPHALT CONCRETE PAVING

- GENERAL NOTES**
1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF CRACK REPAIR AT (E) HARDCOURT.
 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING (E) STRIPING CONDITIONS AND VERIFYING EXACT LAYOUT TO BE RESTRIPTED WITH DISTRICT.

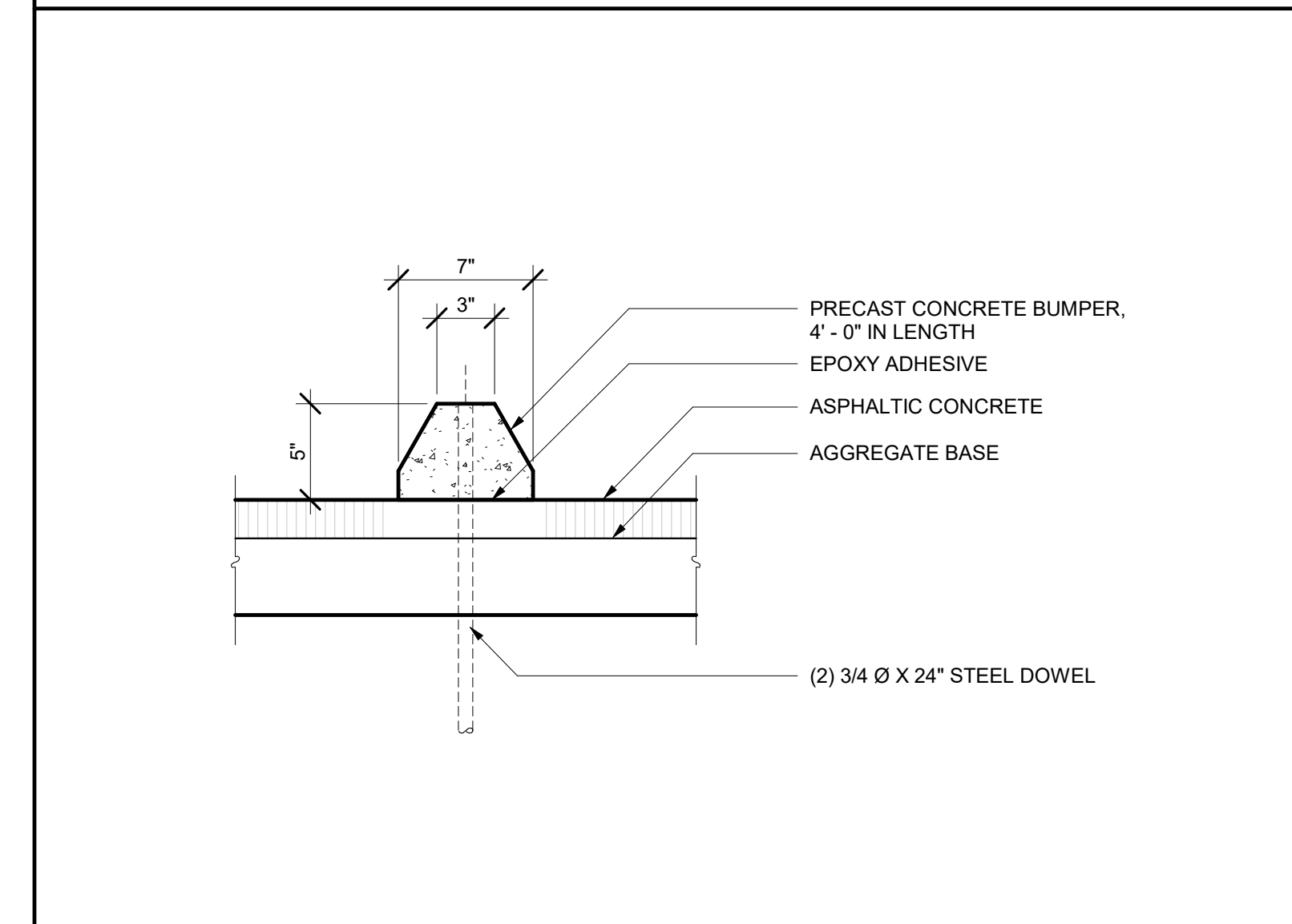
- SHEET NOTES**
- SN 01 ALTERNATE 1: (E) HARDCOURT SHALL RECEIVE CRACK REPAIRS AND 2 COATS OF SEAL COAT. (E) STRIPING IS TO BE RESTRIPTED OVER SEAL COAT. EXTENTS SHOWN DASHED
 - SN 02 ROOF OVERHANG ABOVE, PER PC SHADE STRUCTURE / DEFERRED APPROVAL.
 - SN 03 (E) PLANTER AND SEAT WALL TO REMAIN
 - SN 04 (E) PLANTER AREA TO REMAIN
 - SN 05 HSS COLUMN AND FOOTING, PER PC SHADE STRUCTURE / DEFERRED APPROVAL.



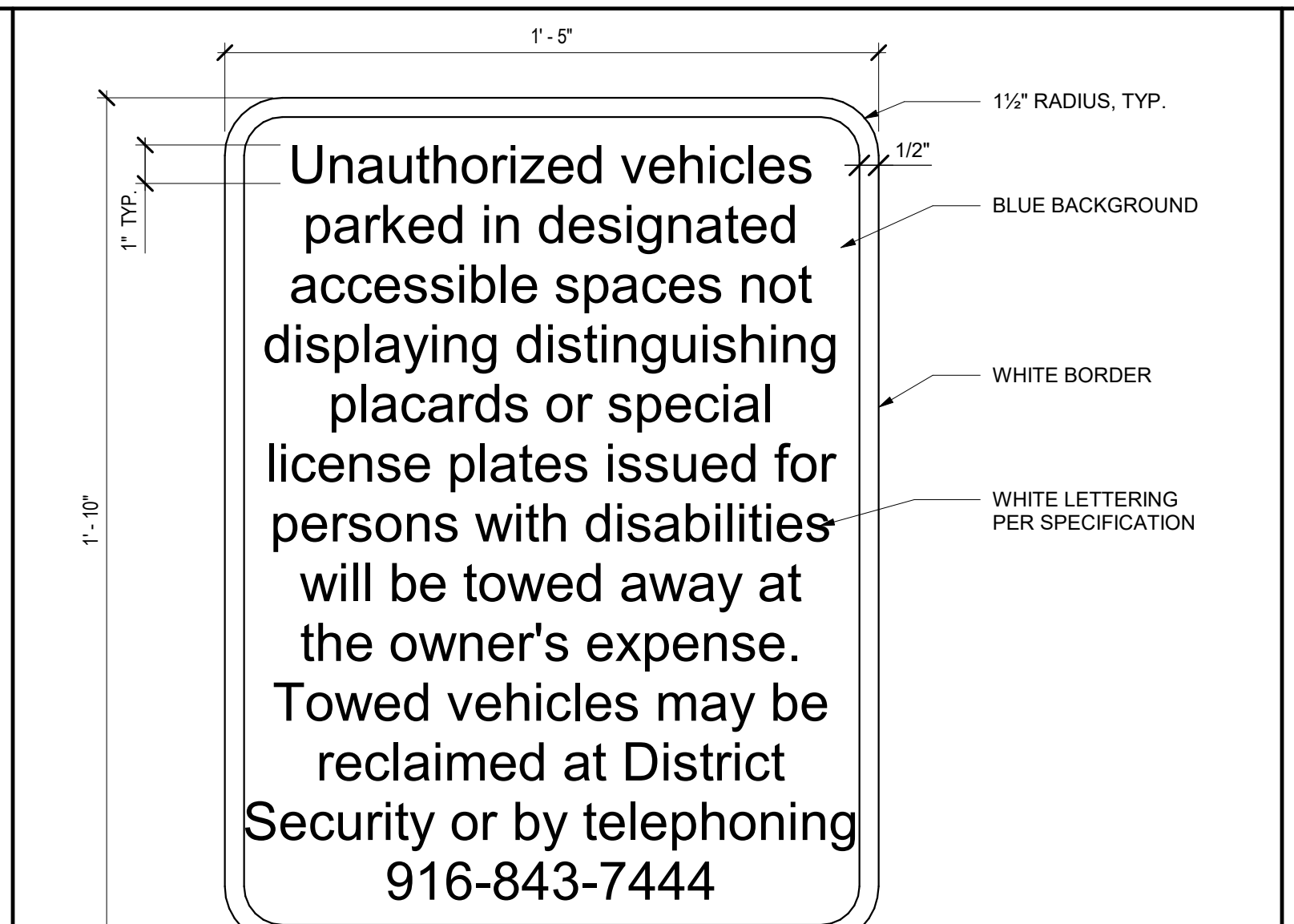
3 ENLARGED PLAN - PARKING
1/8" = 1'-0"



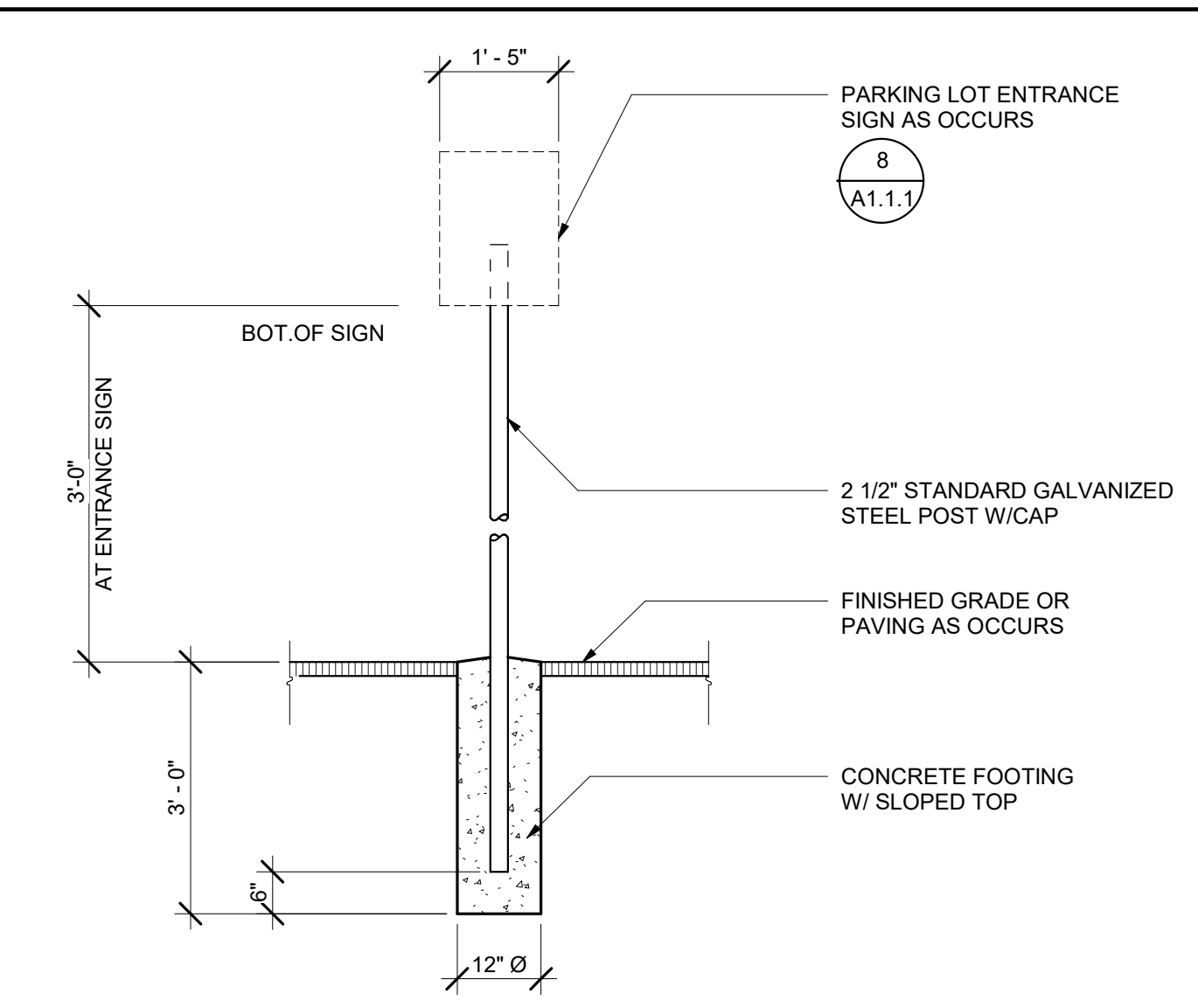
2 ENLARGED PLAN - SHADE STRUCTURE
1" = 10'-0"



12 PRECAST CONCRETE BUMPER
1 1/2" = 1'-0"



8 PARKING LOT ENTRANCE SIGN
3" = 1'-0"



4 METAL SIGNS
1/2" = 1'-0"

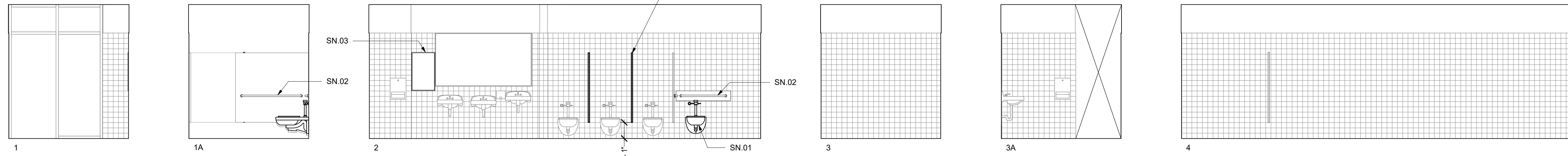
SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

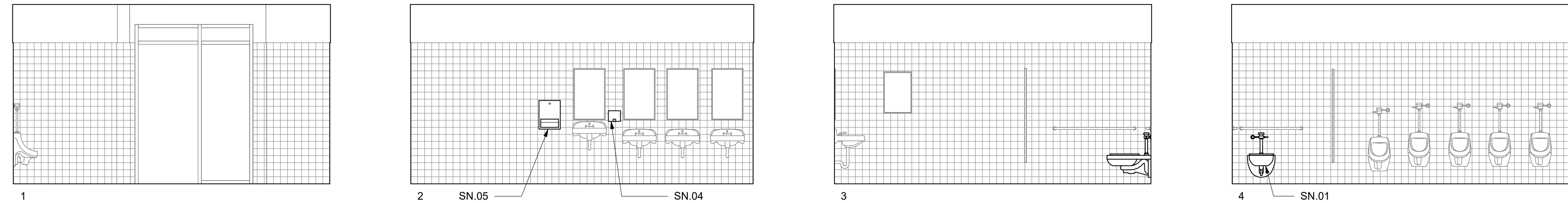
PARTIAL SITE PLANS AND DETAILS

PROJECT NO. 1504.10
 DATE: 3/22/2022
 SHEET **A1.1.1**

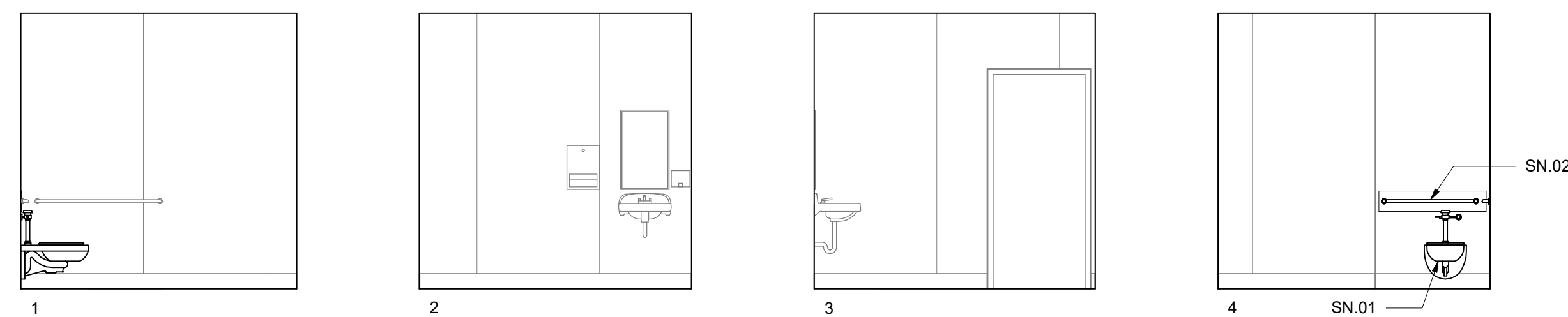
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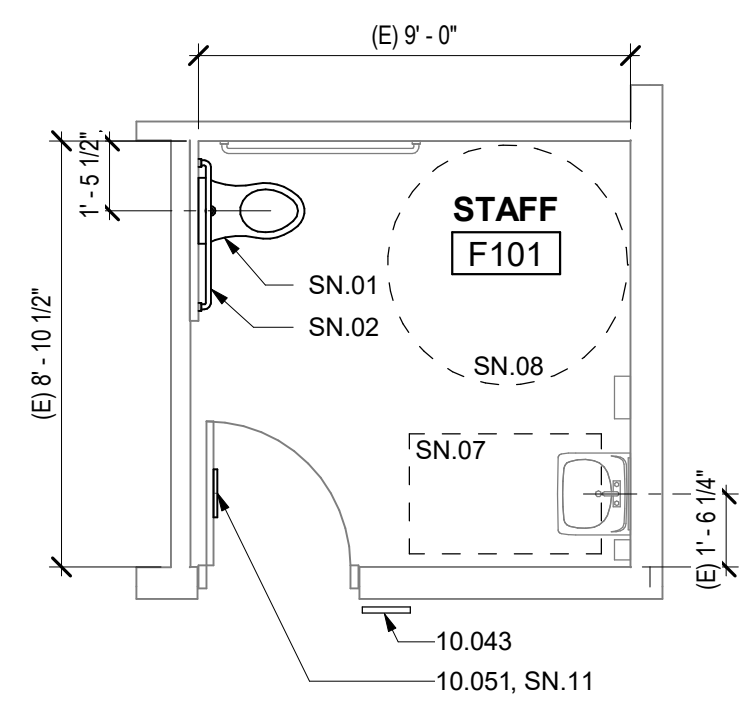
B101 - GIRLS
1/4" = 1'-0"



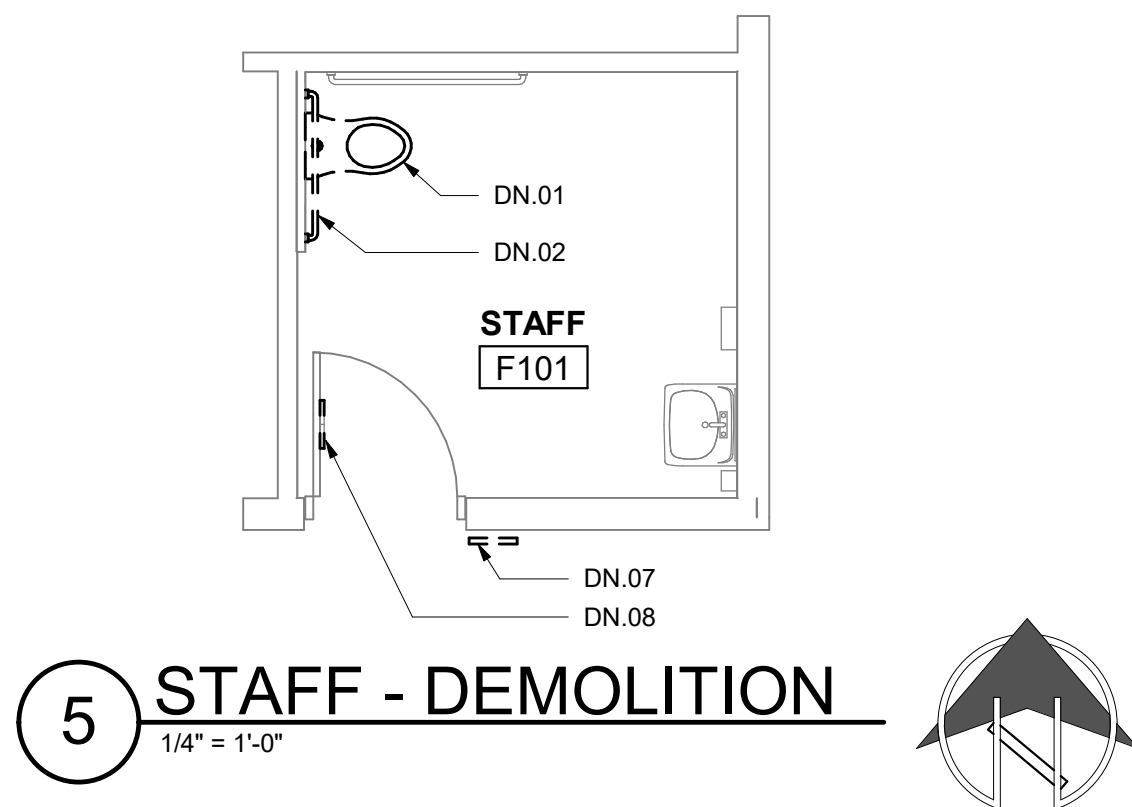
E101 - BOYS
1/4" = 1'-0"



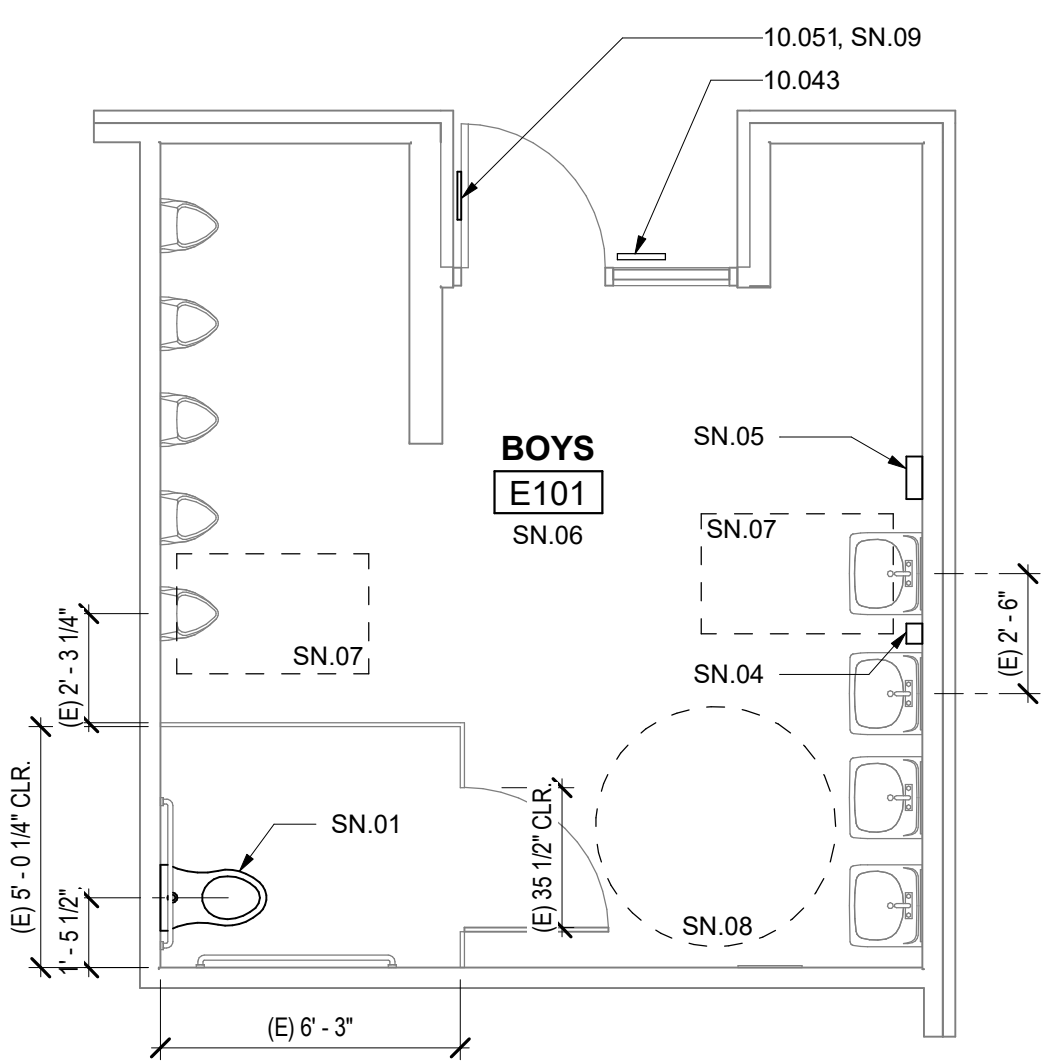
F101 - STAFF
1/4" = 1'-0"



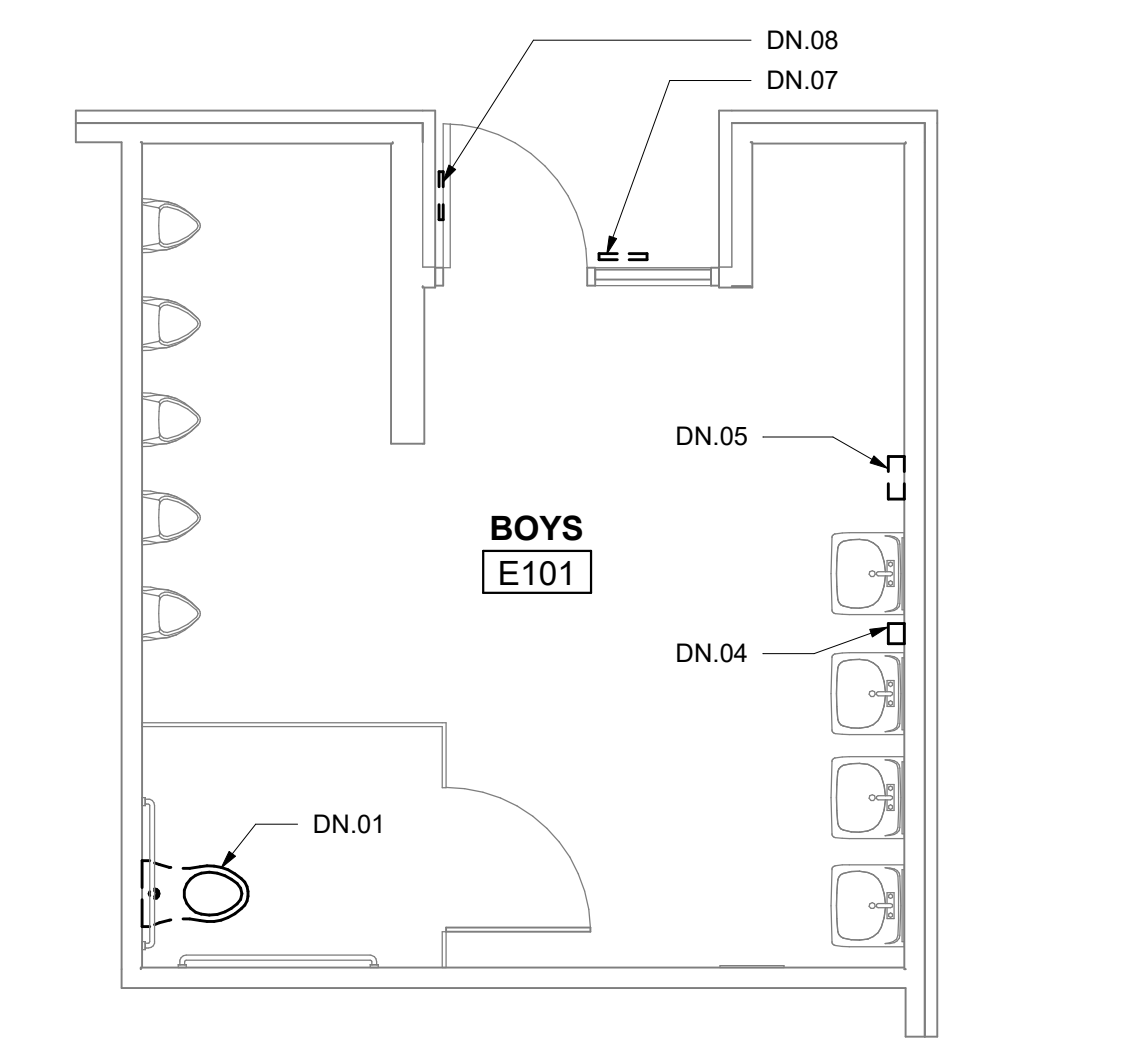
6 STAFF - IMPROVEMENT
1/4" = 1'-0"



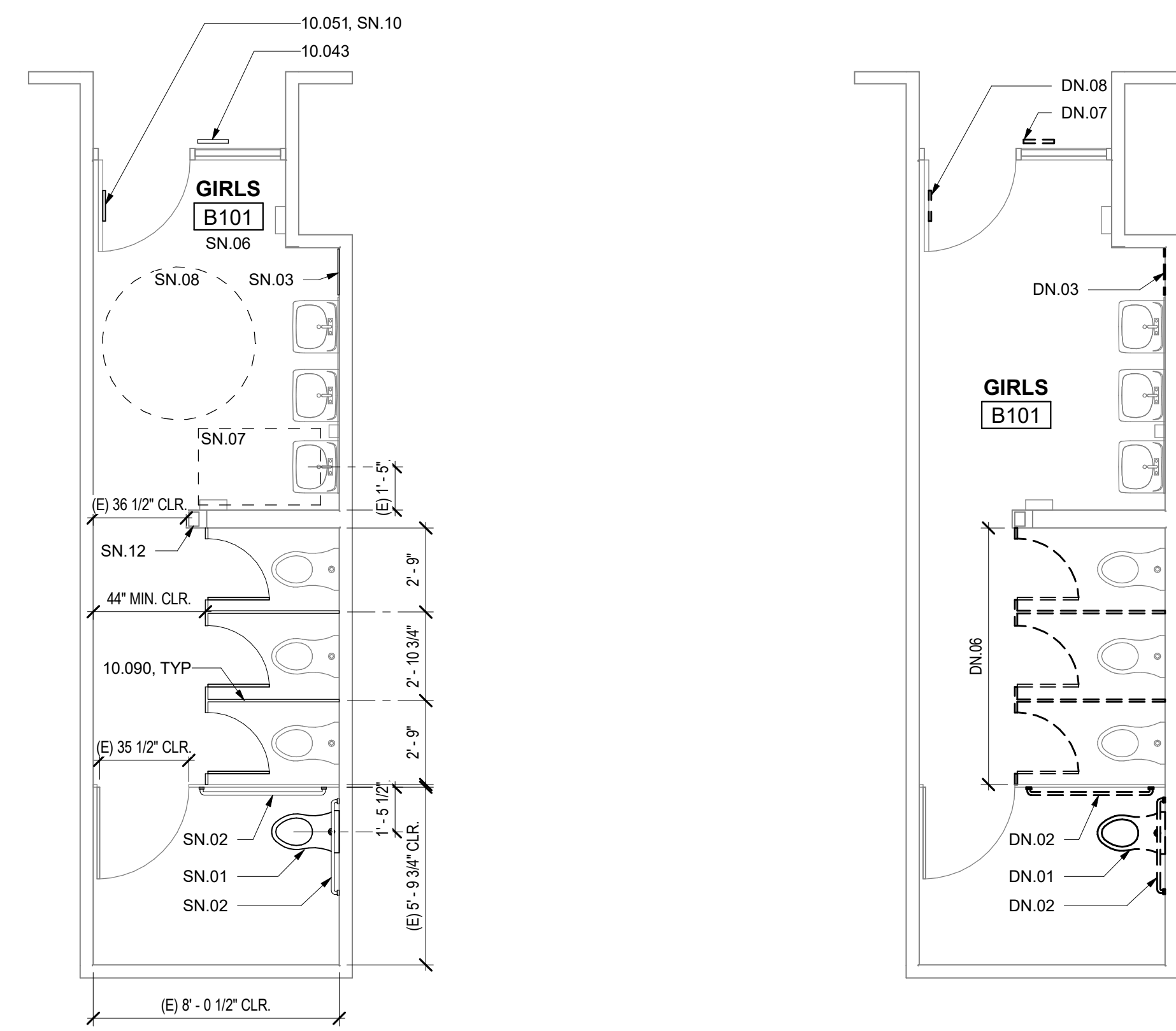
5 STAFF - DEMOLITION
1/4" = 1'-0"



4 BOYS - IMPROVEMENT
1/4" = 1'-0"



3 BOYS - DEMOLITION
1/4" = 1'-0"

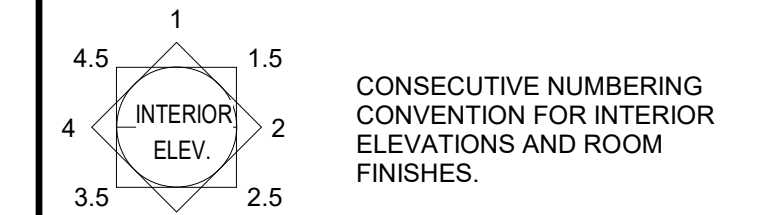


2 GIRLS - IMPROVEMENT
1/4" = 1'-0"



1 GIRLS - DEMOLITION
1/4" = 1'-0"

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

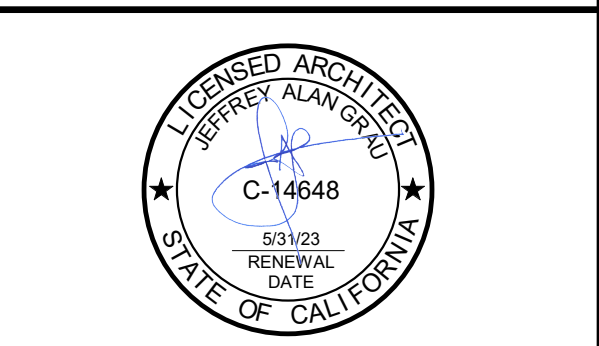
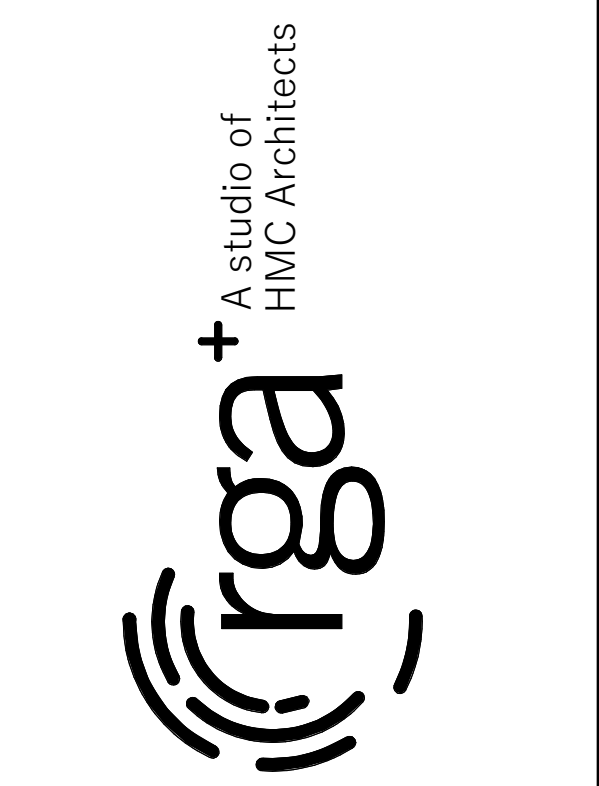
- REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
- REMOVE (E) GRAB BARS AND SALVAGE FOR REINSTALLATION
- REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) TOILET PARTITION AND TOILET PARTITION DOOR
- REMOVE (E) TOILET ROOM I.D. SIGN
- REMOVE (E) TOILET ROOM DOOR SYMBOL

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 GRAB BARS TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2
- WRAP ALL EXPOSED PIPES WITH INSULATION AT LAVATORIES
- 30" X 48" CLEAR SPACE
- 80" DIA. TURNING CIRCLE
- SIGN TO READ "BOYS"
- SIGN TO READ "GIRLS"
- SIGN TO READ "STAFF"
- (E) STRUCTURAL COLUMN

KEYNOTES

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



SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS

UNITS A, E & F
 PROJECT NO. 1504.10
 DATE: 3/22/2022
 SHEET **A2.1.1**

ABBREVIATION LIST

Ø A
AC
A/C
AER
AF
AFF
AIC
AT
AWG
BC
BD
BFC
BRKR
BLDG
BPS
C
C/B
CFCI
ORC
CLG
CO
CONT
CU
CWP
(D)
DC
DISC
DP
(E)
E/W
EA
EL
ELEC
EM
EQ
EQUIP
(ER)
EWC
EWH
(F)
FAFP
FATC
FBO
FLUOR
FLUR
GA
GFCI
GLZ
GND
GP
GYP
HID
HT
HZ
IMC
IN
ISC
ISO
J-BOX
K/MIL
KVA
KW
LC
LV
MCM
MECH
MDP
MH
MISC
MLO
MPOE
MSB
(N)
NIC
NES
NL
NO #
NTS
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PB
PFB
PDZ
PFCT
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PLYWD
PNL
PR
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REQ'D
RM
RMC
(RR)
SDZ
SKZ
SPEC
STC
SQ
SW
TEL
TGB
TMGB
TTB
TYP
UC
UON
V
WP
W
W/
WFM
&

GENERAL NOTES

- 1. 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.
2. ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
3. PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
4. 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.
5. 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.
6. CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
7. ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
8. LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
9. 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.
10. FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
11. 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.
12. 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.
13. SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
14. 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.
15. 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.
16. 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.
17. 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.
17.1. 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.
18. COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
19. PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
20. A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
21. 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.
22. RECEPTACLE WEATHERPROOF COVERS SHALL BE LISTED "EXTRA DUTY", LOCKABLE, METAL, IN-USE TYPE.
23. 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.
24. FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
25. FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
26. PROVIDE "LOOK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
27. 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.
28. MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
29. 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:
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. 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.
3. 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:
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 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 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
MP □ MD □ PP □ E ■ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH 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
-EM- 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 KEYPED NOTES ON SAME SHEET
Ⓛ MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
Ⓛ DETAIL DESIGNATION, "A" SIGNIFIES DETAIL, "E-1" SIGNIFIES SHEET NUMBER
(1)-1/2" ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
↑ NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

SYMBOLS LIST NOTES:

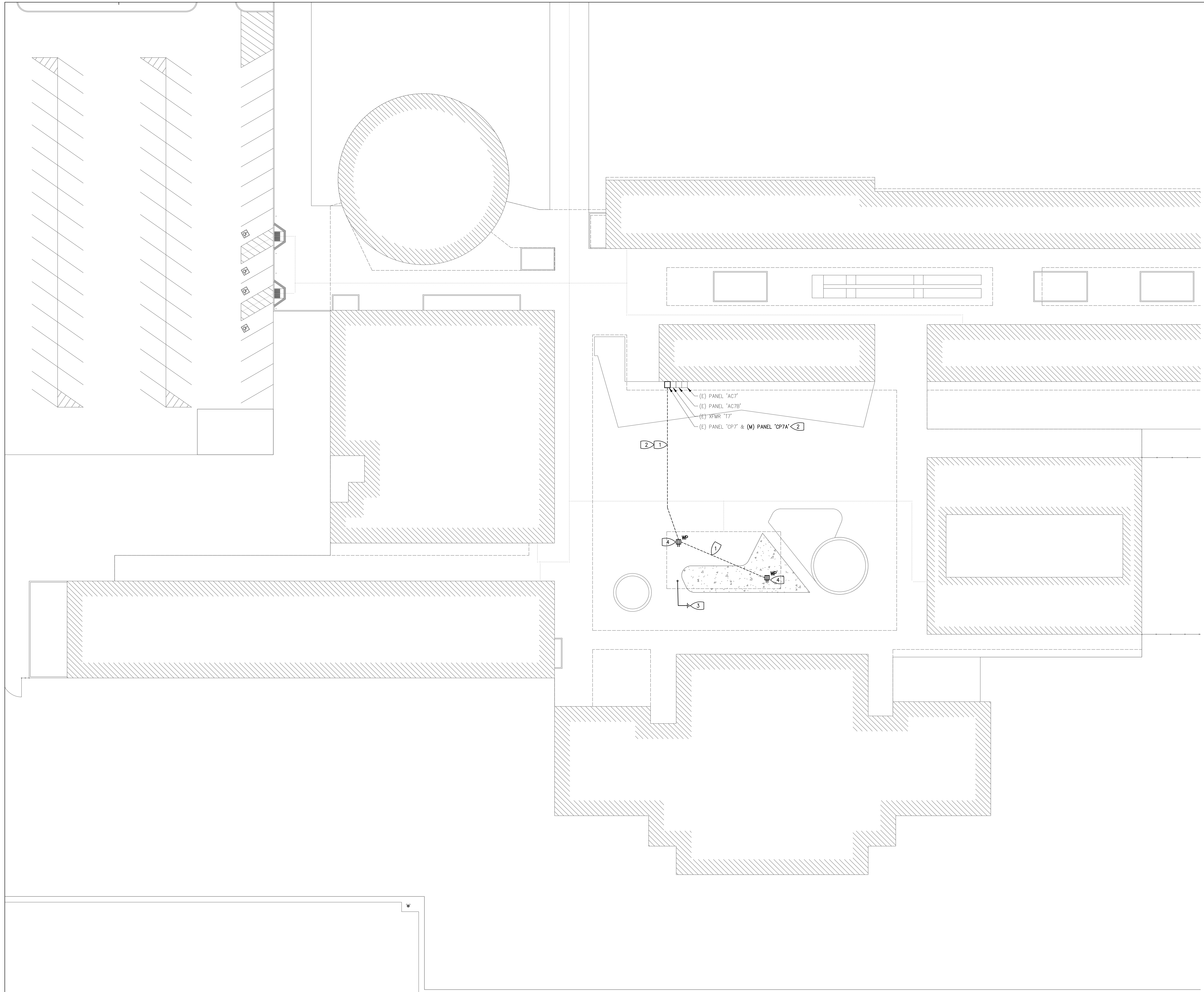
- 1. MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
2. MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
3. "A" ADJACENT TO OUTLET INDICATES OUTLET BOX TO BE MOUNTED ABOVE COUNTER. COORDINATE WITH COUNTER HEIGHT AND DEPTH PRIOR TO ROUGH IN. MOUNT OUTLET ABOVE COUNTERS AT:
3.1. +48" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
3.2. +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
4. OUTLET BOXES SHALL BE:
4.1. WALL MOUNTED - 4" SQ. x 2-1/8" DEEP MINIMUM
4.2. CEILING MOUNTED - 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
5. OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
6. FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
7. 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.
8. 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.
9. INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

Table with columns: LOAD IN VOLT AMPERES, LENGTH OF CONDUCTOR WIRE SIZE IN (GAUGE), #12, #10, #8, #6, #4. Rows include 1200VA, 1560VA, 1800VA, 1920VA, 2340VA, 2880VA, 3000VA, 3900VA, 4800VA.

- NOTES
1. THIS CHART IS FOR COPPER CONDUCTORS ONLY.
2. THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
3. 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.
4. USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
5. FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART

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REGISTERED PROFESSIONAL ENGINEER 17247 Exp. 6/30/22 ELECTRICAL STATE OF CALIFORNIA
PLOT DATE: 3/17/2022
SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA
Revision
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PROJECT NO. 1504.10 DATE: 3/21/2022 SHEET E0.1



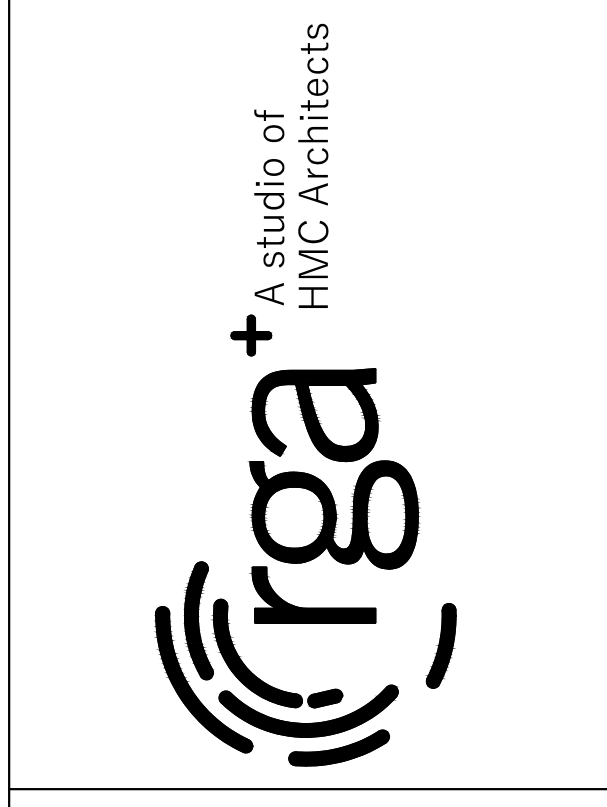
SHEET NOTES:

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.

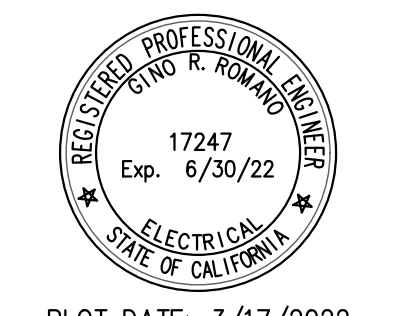
KEYED NOTES:

- 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) CONCRETE. 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 PROVIDE TYPE LL CONDUIT BODY FROM SIDE OF PANEL ENCLOSURE AND DROP CONDUIT TO BELOW GRADE. PROVIDE CHRISTY N9 PULL BOX WITHIN FIVE(5) FT. OF SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
- 3 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**.
- 4 LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.

(E) PANEL 'AC7'
 (E) PANEL 'AC7B'
 (E) XFMR '17'
 (E) PANEL 'CP7' & (M) PANEL 'CP7A' < 2



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PLOT DATE: 3/17/2022

**SHADE STRUCTURE AT ROSA PARKS
 MIDDLE SCHOOL**
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

△ Revision

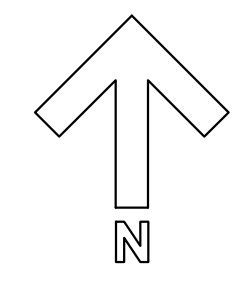
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**SITE PLAN -
 ELECTRICAL**

PROJECT NO. 1504.10
 DATE: 3/21/2022
 SHEET

E1.1

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



Voltage Drop Calculations Copper

Job Name: Rosa Parks Elementary School - Shade Structure Job #: 22.020
Date: 3/10/2022

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	0.4	119.10	100	100	1	3.00	10	1995	0.60	0.75%
RECEPT-2	1.5	0.2	118.93	58	158	1	1.50	10	1995	0.77	0.89%

MODIFIED

PANEL: CP7A	MANF: SIEMENS	MAIN: MLO	SERVICE: 120/208 VOLT	MOUNTING: FREE-	ENCLOSURE: 10K AIC
TYPE: P1	BUS: 250 AMP	225 AMP	3 Ø, 4W	WIDTH: STANDING	DEPTH: 100% NEUT.

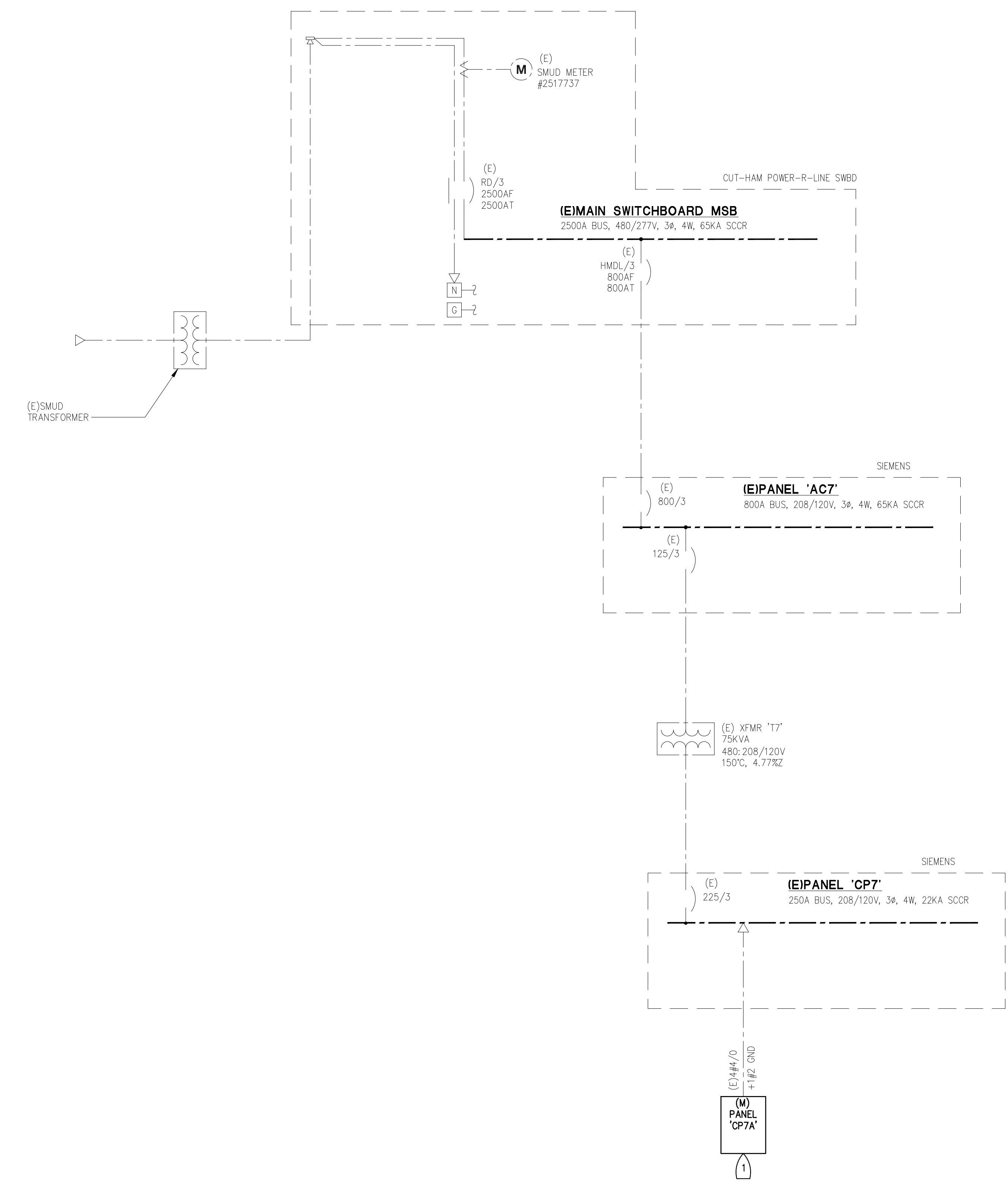
AØ	BØ	CØ	DIRECTORY	BRKR	OKT	OKT	BRKR	DIRECTORY	AØ	BØ	CØ
1200	1200	1200	RECEPT B10	20/1	1	2	20/1	RECEPT B 206	1200	1200	1200
			RECEPT B11	20/1	3	4	20/1	RECEPT B 206			
			RECEPT B12	20/1	5	6	20/1	RECEPT B 207			
1200	1200	1200	RECEPT B11	20/1	7	8	20/1	RECEPT B 207	1200	1200	1200
			RECEPT B12	20/1	9	10	20/1	RECEPT B 208			
			RECEPT B12	20/1	11	12	20/1	RECEPT B 208			
360			RECEPTS - SHADE STRUCT. [4]	20/1	13	14	20/1	RECEPT B 209	1200		
			SPARE	20/1	15	16	20/1	RECEPT B 209		1200	1200
			SPARE	20/1	17	18	20/1	RECEPT B 210			
			SPARE	20/1	19	20	20/1	RECEPT B 210	1200		
			SPARE	20/1	21	22	20/1	SPARE			
			SPARE	20/1	23	24	20/1	SPARE			
			SPARE	20/1	25	26	20/1	SPARE			
			SPARE	20/1	27	28	20/1	SPARE			
			SPARE	20/1	29	30	20/1	SPARE			
			SPARE	20/1	31	32	20/1	SPARE			
			SPARE	20/1	33	34	20/1	SPARE			
			SPARE	20/1	35	36	20/1	SPARE			
			SPARE	20/1	37	38	20/1	SPARE			
			SPARE	20/1	39	40	20/1	SPARE			
			SPARE	20/1	41	42	20/1	SPARE			

NEW LOAD		DEMAND READINGS		PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND LOAD
TOTAL PANEL VA	AMPS	AMPS	AMPS	VA	VA	VA
7560 VA	63	2.1	2.6	66 A	7875 VA	20940 VA
6000 VA	50	4	5.0	55 A	6600 VA	65.6 AMPS
6000 VA	50	3.1	3.9	54 A	6465 VA	

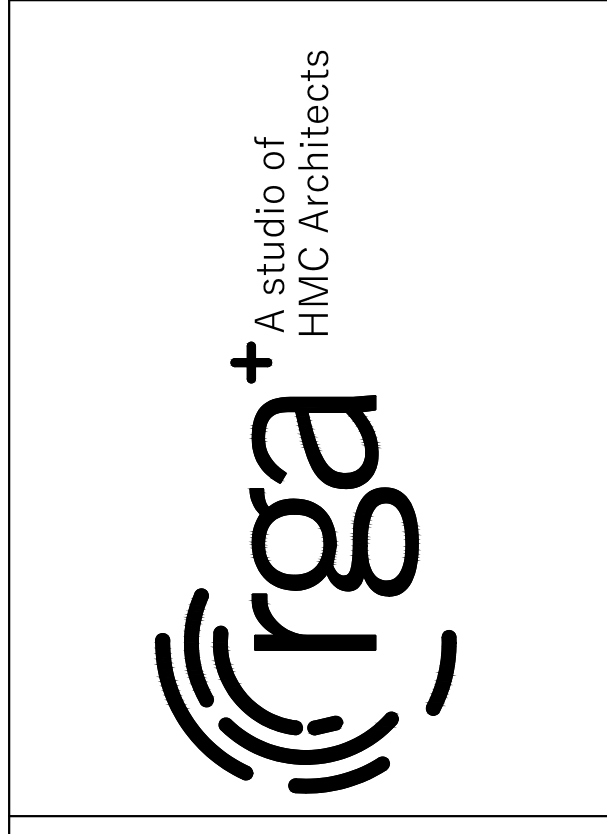
NOTES:
1. FEEDER CONDUCTORS CONSIST OF #4/0 + 1#2 GND CU
2. BRANCH BREAKERS ARE SIEMENS TYPE BL
3. PROVIDE TYPE-WRITTEN PANEL DIRECTORY
4. USE EXISTING 20 AMP, SINGLE-POLE SPARE BREAKER.

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.

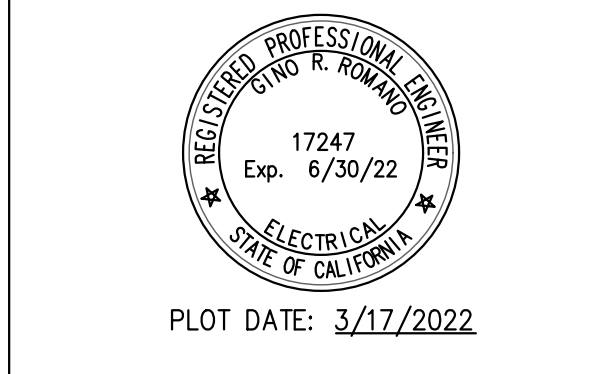
KEYED NOTES:
1. MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.



1 ONE LINE DIAGRAM
SCALE: NONE



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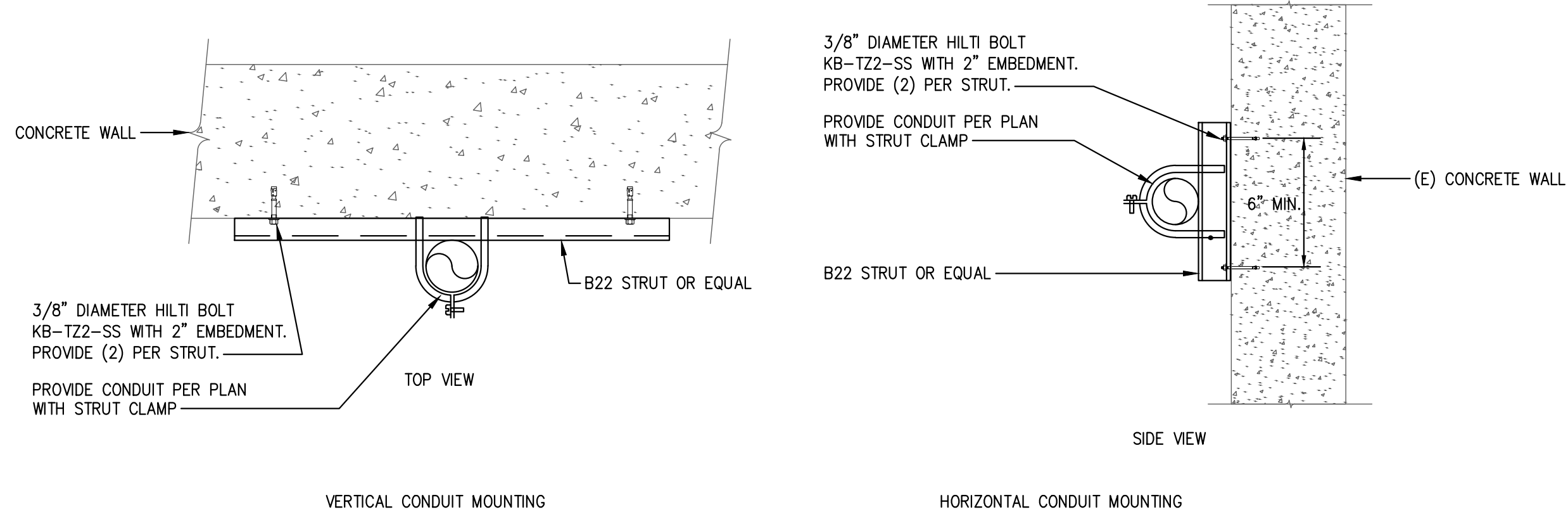
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ONE LINE DIAGRAM

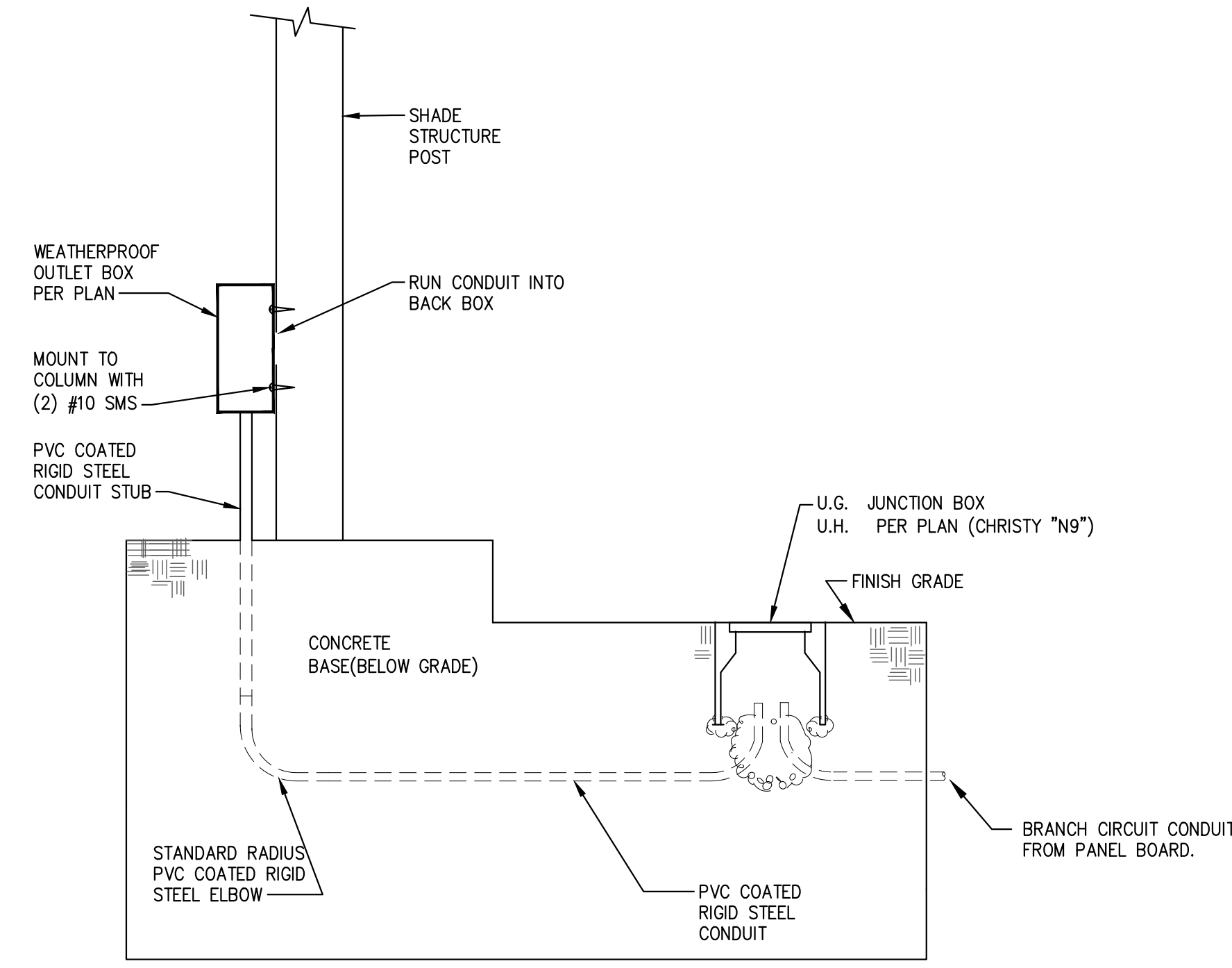
PROJECT NO. 1504.10
DATE: 3/21/2022
SHEET **E2.1**



- NOTES:
- 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.
 - PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 - MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

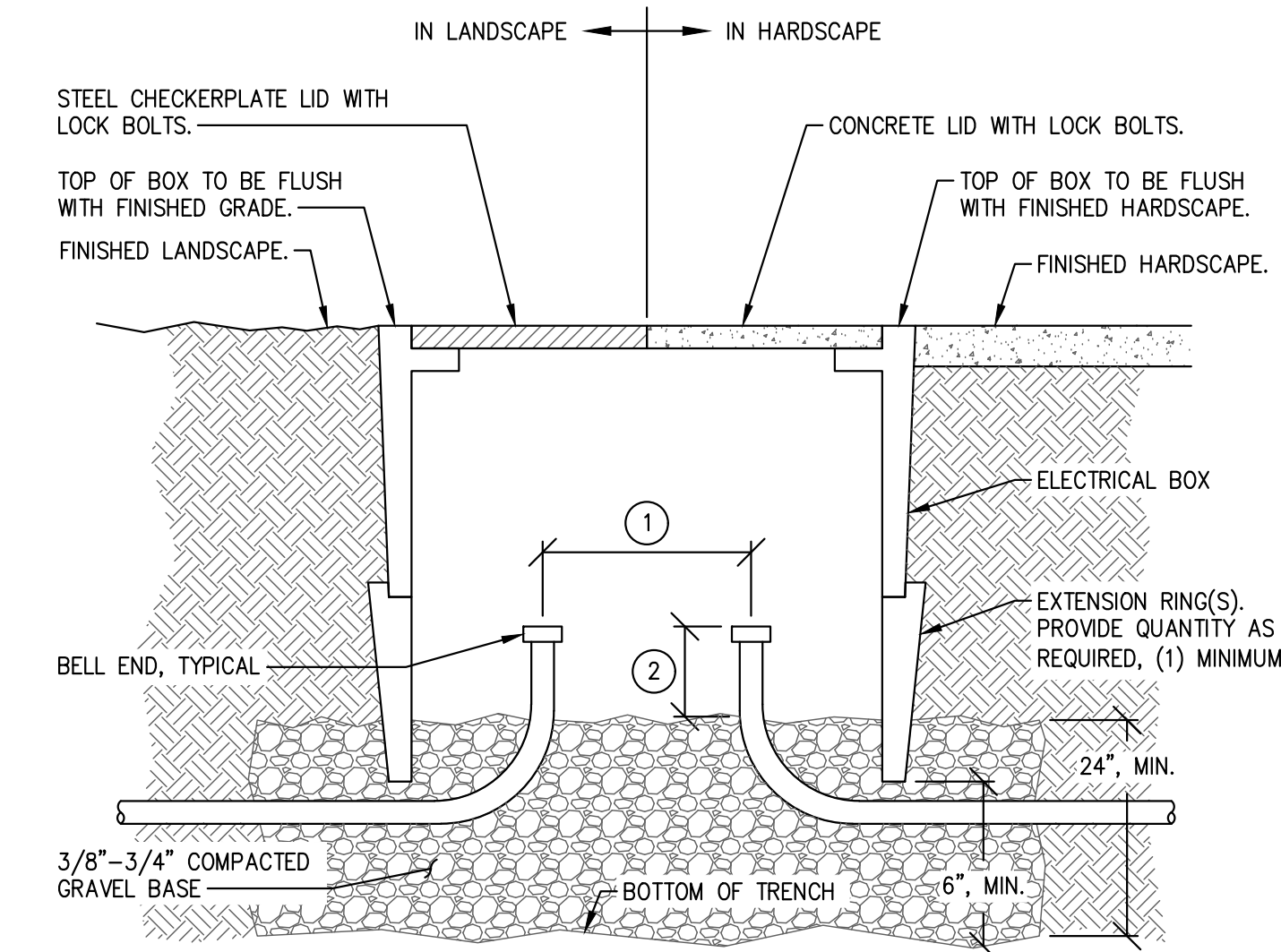
7 CONDUIT MOUNTING DETAIL - CONCRETE WALLS

SCALE: NONE



4 CONDUIT STUB IN POST DETAIL

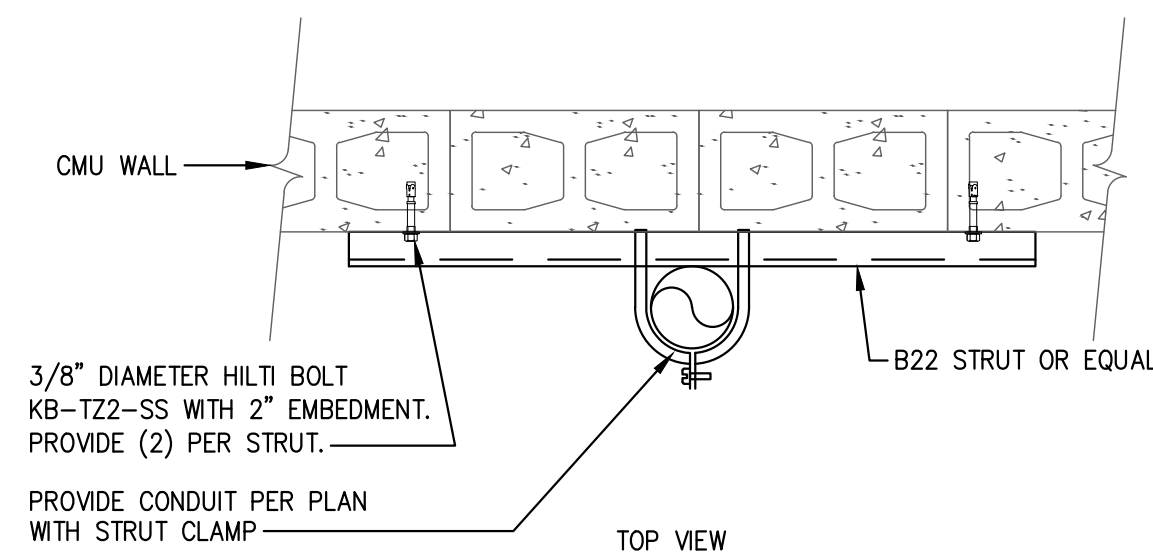
SCALE: NONE



- KEY NOTES:
- WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 - TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX

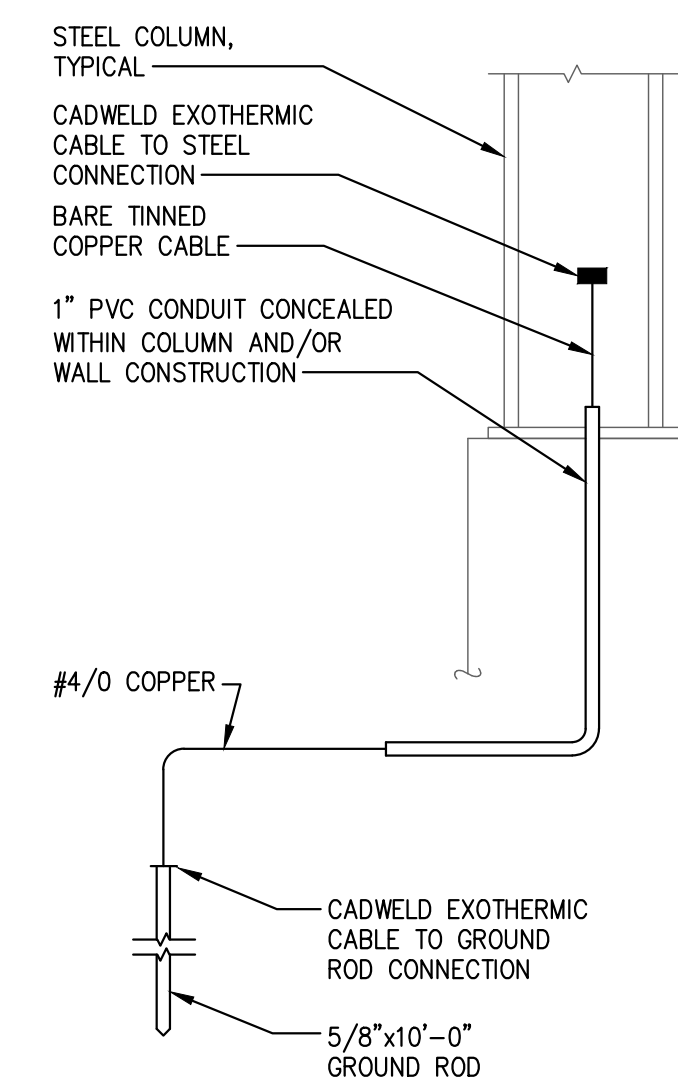
SCALE: NONE



- NOTES:
- 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.
 - PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 - MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

8 CONDUIT MOUNTING DETAIL - CMU WALLS

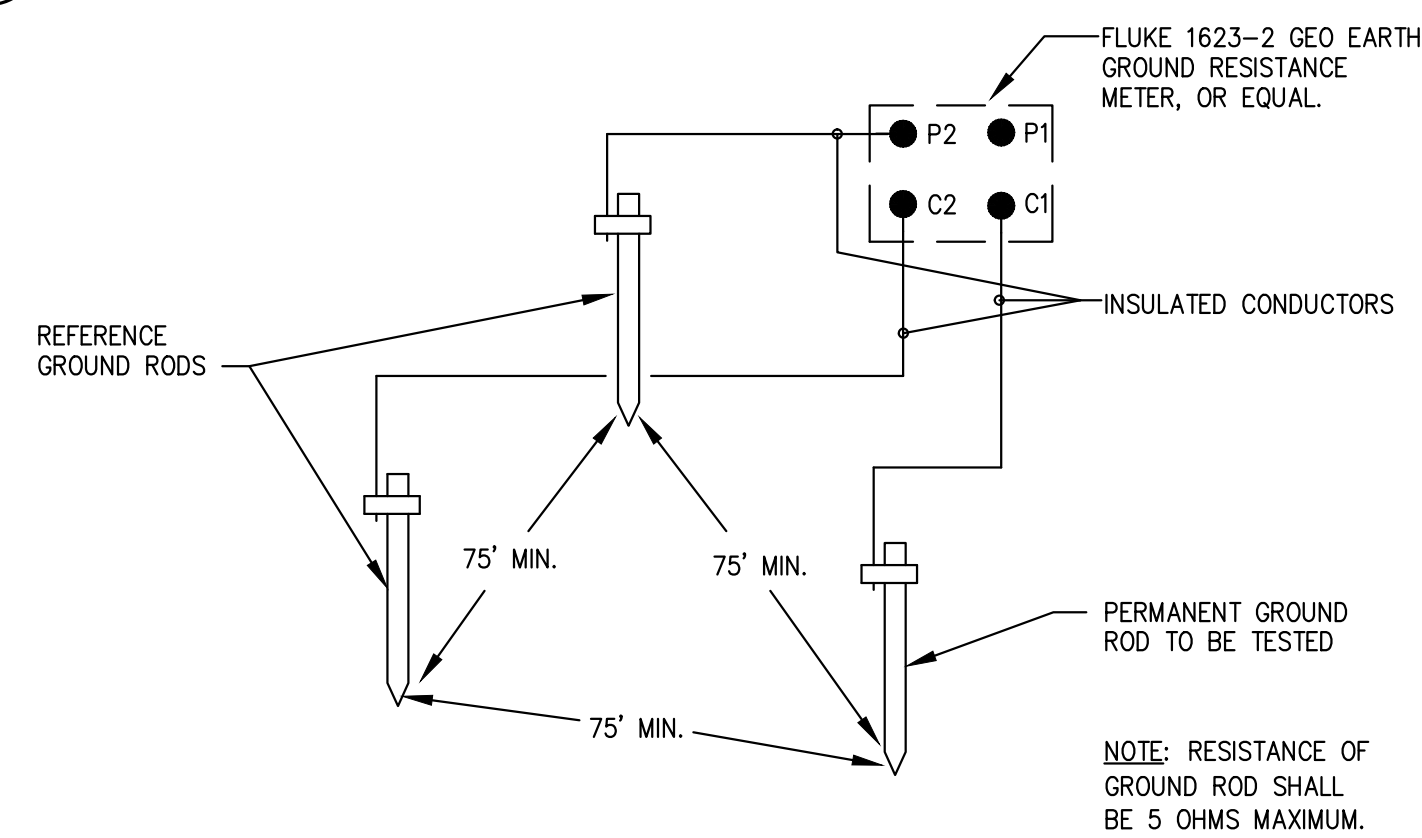
SCALE: NONE



- NOTES:
- ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 - FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

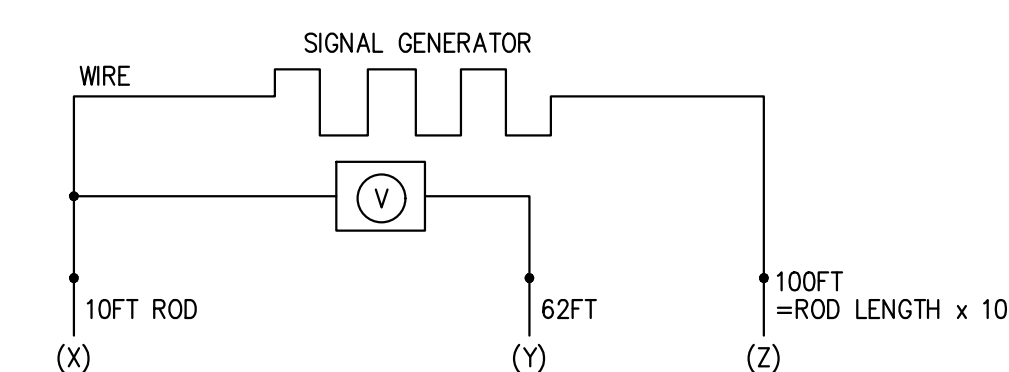
5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL

SCALE: NONE



- FALL OF POTENTIAL TEST METHOD NOTES:
- POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
 - POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
 - POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
 - POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC I.T. EQUIPMENT: 3 OHMS.
 - MAN-HOLE GROUNDS: 10 OHMS.

FALL OF POTENTIAL 3-POINT TEST: GROUND RING, I.E. 10 BY 10 RING, 14\"/>



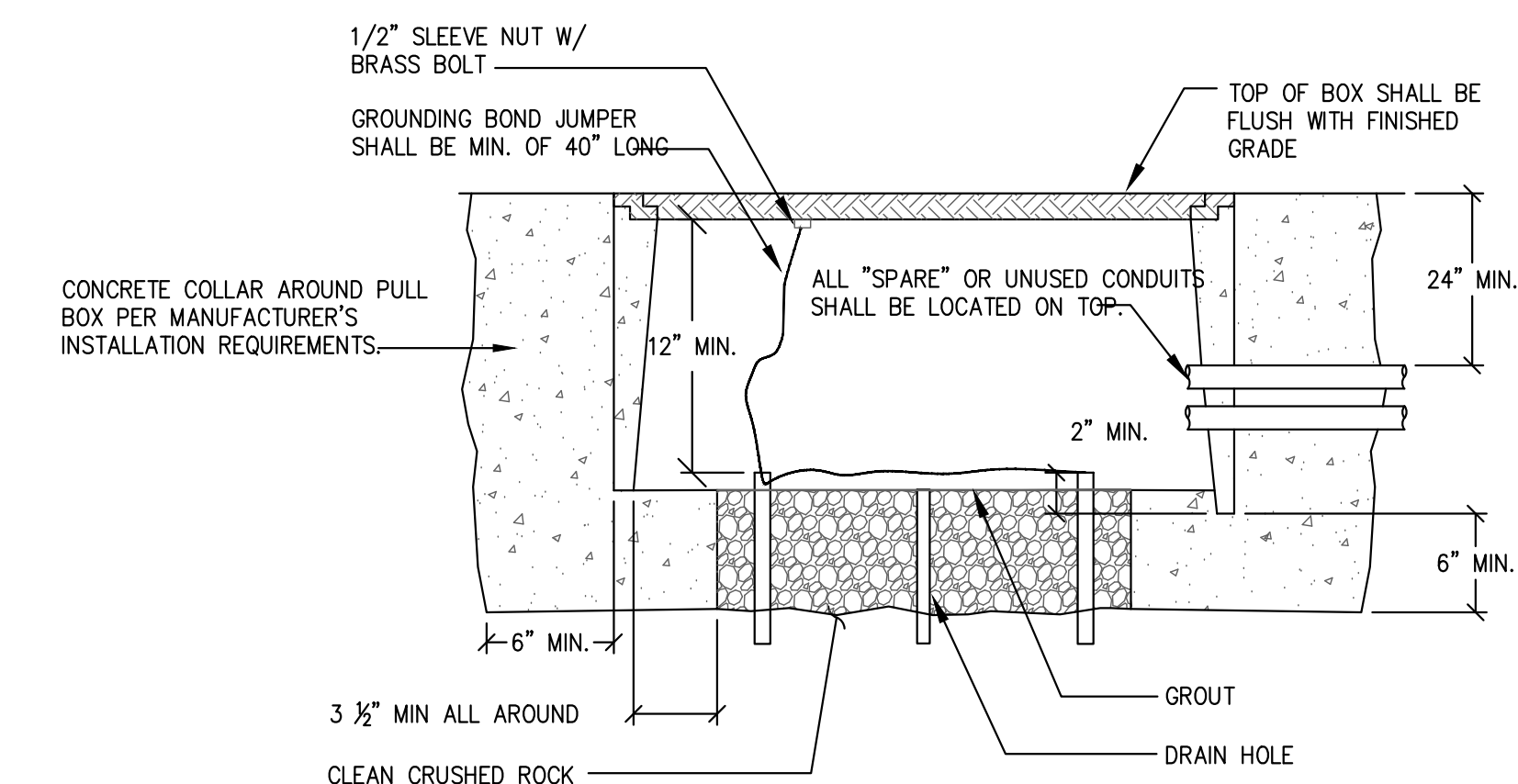
AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED $R=V/I$. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE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

6 METHOD OF TESTING GROUND RODS DETAIL

SCALE: NONE

2 TRAFFIC RATED PULL BOX

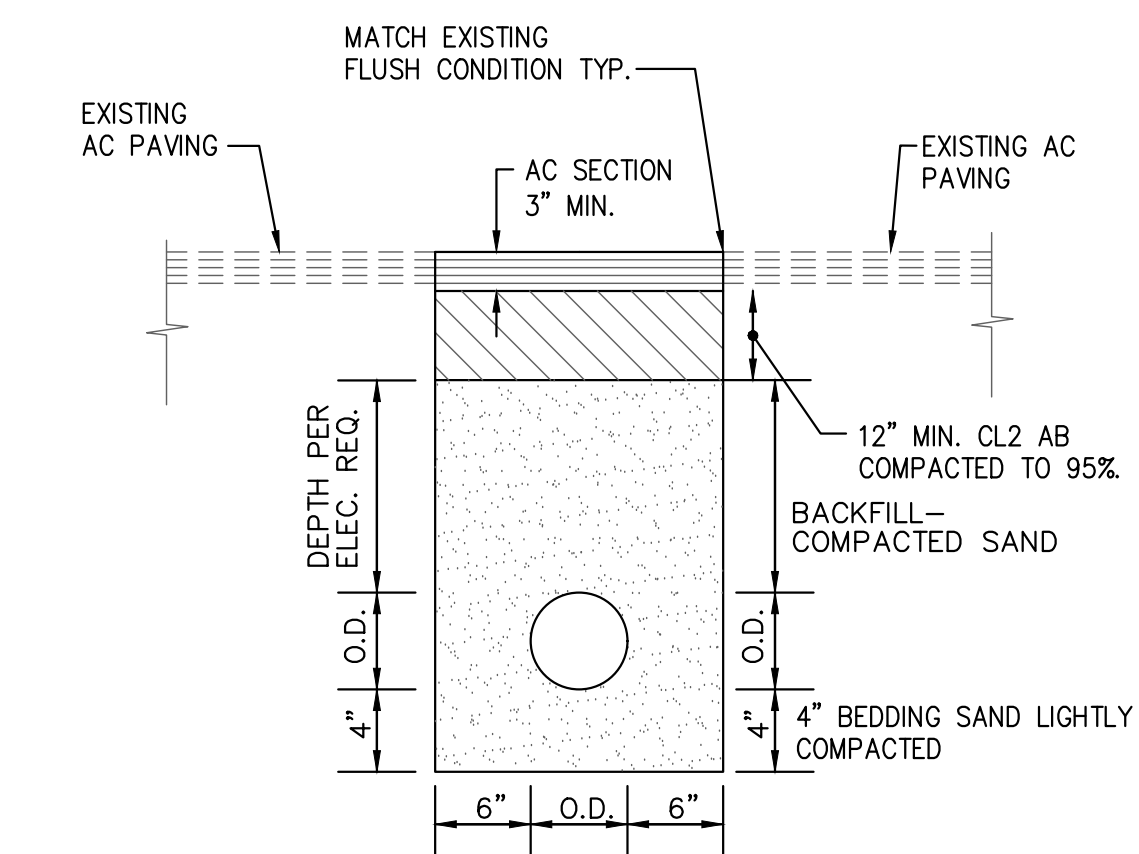
SCALE: NONE



- NOTES:
- HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 - PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 - WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4\"/>
 - FOR ALTERNATE STYLE PULLBOXES CONTRACTOR SHALL FIELD CORE DRILL ALL CONDUIT ENTRIES 2\"/>
 - CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TRAFFIC RATED PULL BOX

SCALE: NONE



3 TYPICAL TRENCH DETAIL

SCALE: NONE

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DETAILS

DESIGN CRITERIA table with columns for DESCRIPTION and DESIGN VALUES. Includes sections for DEAD AND LIVE LOADS, ROOF SNOW LOAD, WIND DESIGN, SEISMIC DESIGN, and DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD.

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. WORK CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERRECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.

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.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNS), WITH THE NUTS CONFORMING TO ASTM A-563.

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.

Table for concrete design requirements with columns for STRENGTH (28 DAYS), W/C RATIO, W/C RATIO (AIR ENTRAINED), SLUMP (1"), and UNIT WEIGHT (NORMAL WEIGHT).

- 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.

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

Form with fields for PROJECT NAME and SCHOOL DISTRICT.

Table for FRAME DIMENSIONS with columns for FRAME WIDTH, FRAME LENGTH, and OTHER.

Table for ROOF PANEL with columns for ROOF PANEL TYPE and DESIGN OPTIONS.

Form for PROJECT SITE - Ss ACCELERATION (g) with a value of 0.642.

Table for Ss REGION with columns for Ss REGION, Ss REGIONS, and MAX DEAD LOAD.

Table for TOTAL ROOF DEAD LOAD with columns for DESCRIPTION, DEAD LOAD, and EXAMPLES.

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:

- POWDER-COAT FINISH SYSTEM: ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:

Table for ABBREVIATIONS with columns for A/C, AISC, ASM, ASTM, AWS, CBC, C/P, CLR, DEG, DIA, DIM, DSA, EQ, FT, GA, IN, KSI, MAX, MN, MISC and their corresponding units or descriptions.

Table for FOUNDATION REQUIREMENTS with columns for SOIL CLASS 5 (BEARING), SOIL CLASS 4 (BEARING), and SOIL CLASS 3 (BEARING).

Table for MISCELLANEOUS with columns for CLEAR HEIGHT, ELECTRICAL CUTOUTS, and GUTTERS.

Table for SHEET INDEX with columns for BASE FRAME, RG 20, RG 30, and RG 40.

Table for STRUCTURAL SEPARATION with columns for ALL DEFLECTIONS SHOWN AND DEFLECTIONS ARE FOR (1) STRUCTURE.

Table for ARCHITECTURAL REQUIREMENTS with columns for DESCRIPTION and DESIGN VAULES.

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)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

- 2019 CBC, CHAPTER 35
2019 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE: THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE.

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.

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

Table for ICON STD and Rh/DSA-PC.

Table for DRAWN BY and ANGEL.

Table for DATE and 4/2/2021.

Table for REV and REV DATE.

JRMA ARCHITECTS ENGINEERS logo and seal with professional information.

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

GENERAL INFO: SHEETER SYSTEMS INC.

Shelter Systems Inc logo and contact information.

1455 LINCOLN AVE HOLLAND MI, 49423 616.396.0919 800.748.0985 616.396.0944 FX

LS1.0

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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes sections 7. CAST-IN-PLACE CONCRETE and 17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 23. ANCHOR BOLTS AND ANCHOR RODS.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

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

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 1. GENERAL.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 2. SOIL COMPACTION AND FILL.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

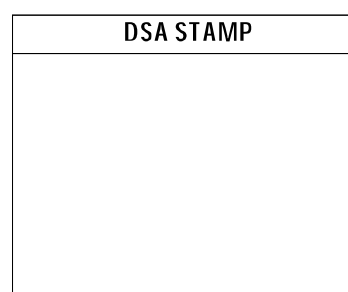
Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 18. HIGH-STRENGTH BOLTS; RCSC 2.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section c. Compaction testing.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS).

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section b. Test high-strength bolts, nuts and washers.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 19. WELDI.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section Verification of Materials, Equipment, Welders, etc.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

- 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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 5. RETAINING WALLS.

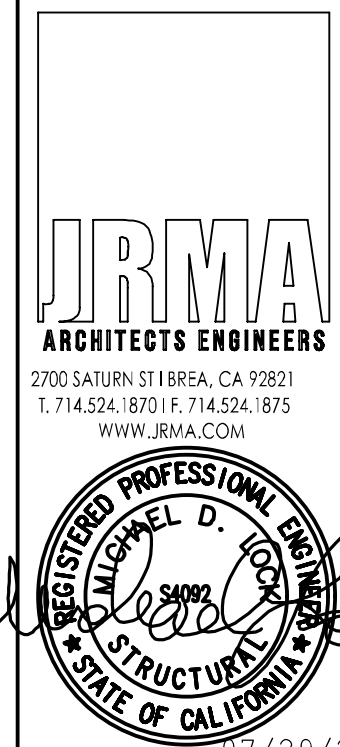
Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 6. OTHER SOIL.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 19.1 SHOP WELDING.

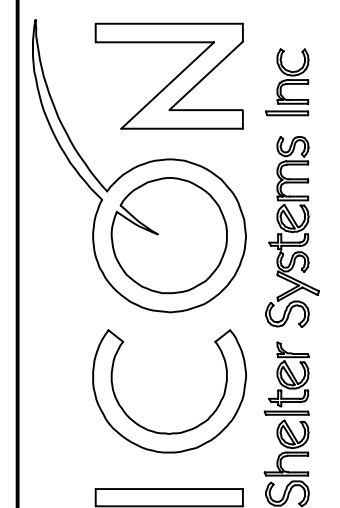
Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes section 23. ANCHOR BOLTS AND ANCHOR RODS.

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



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

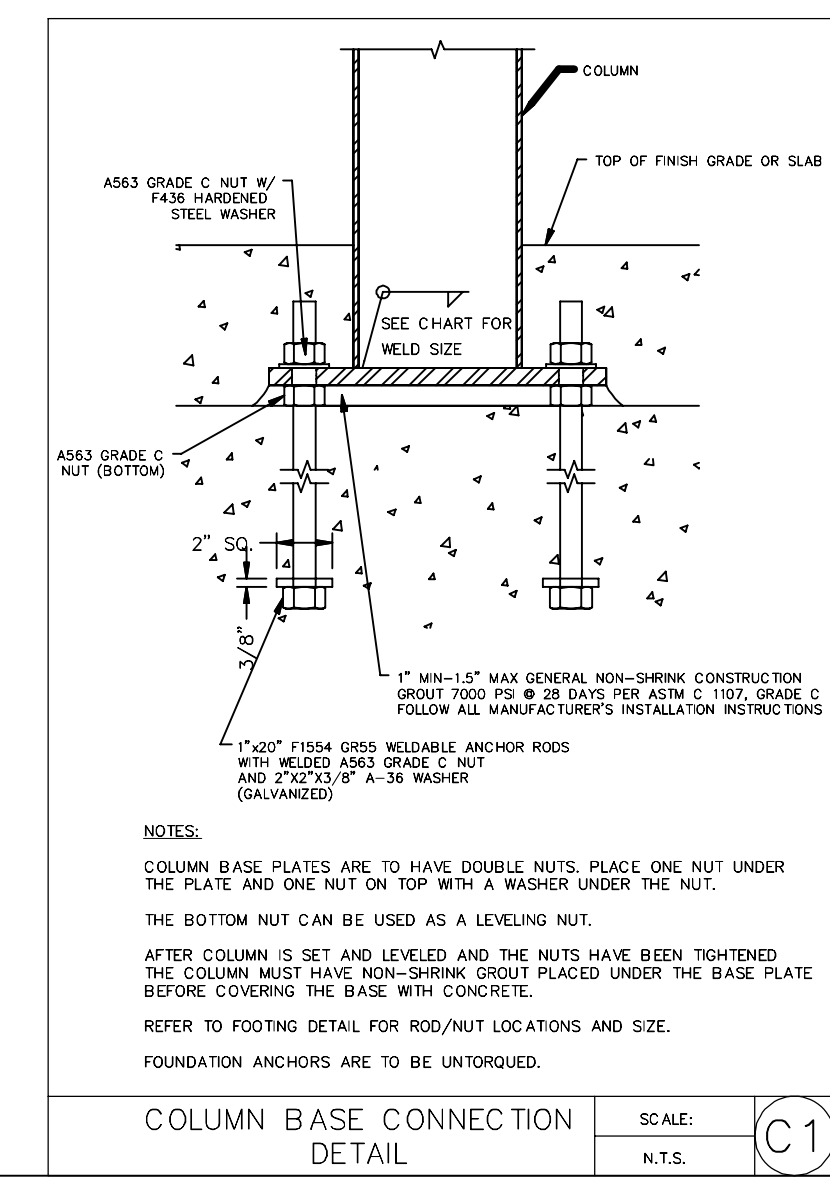
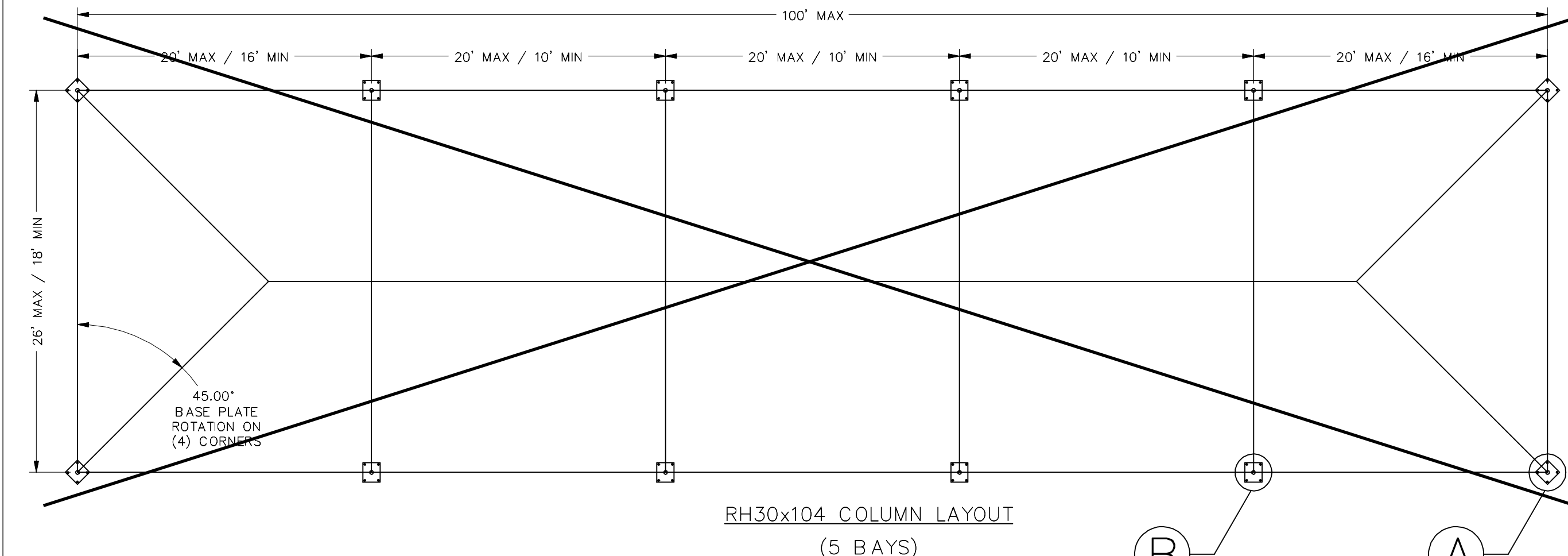
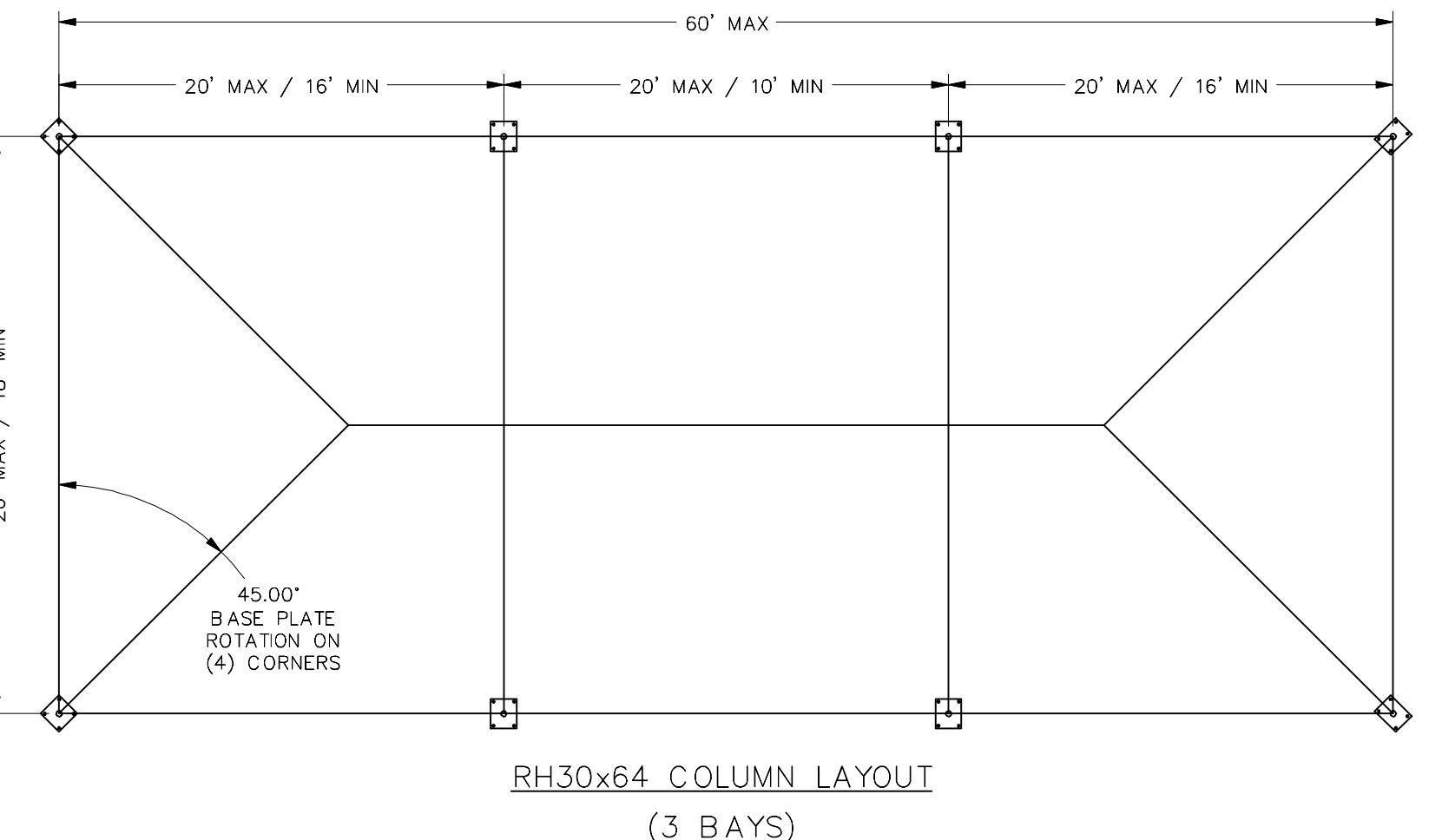
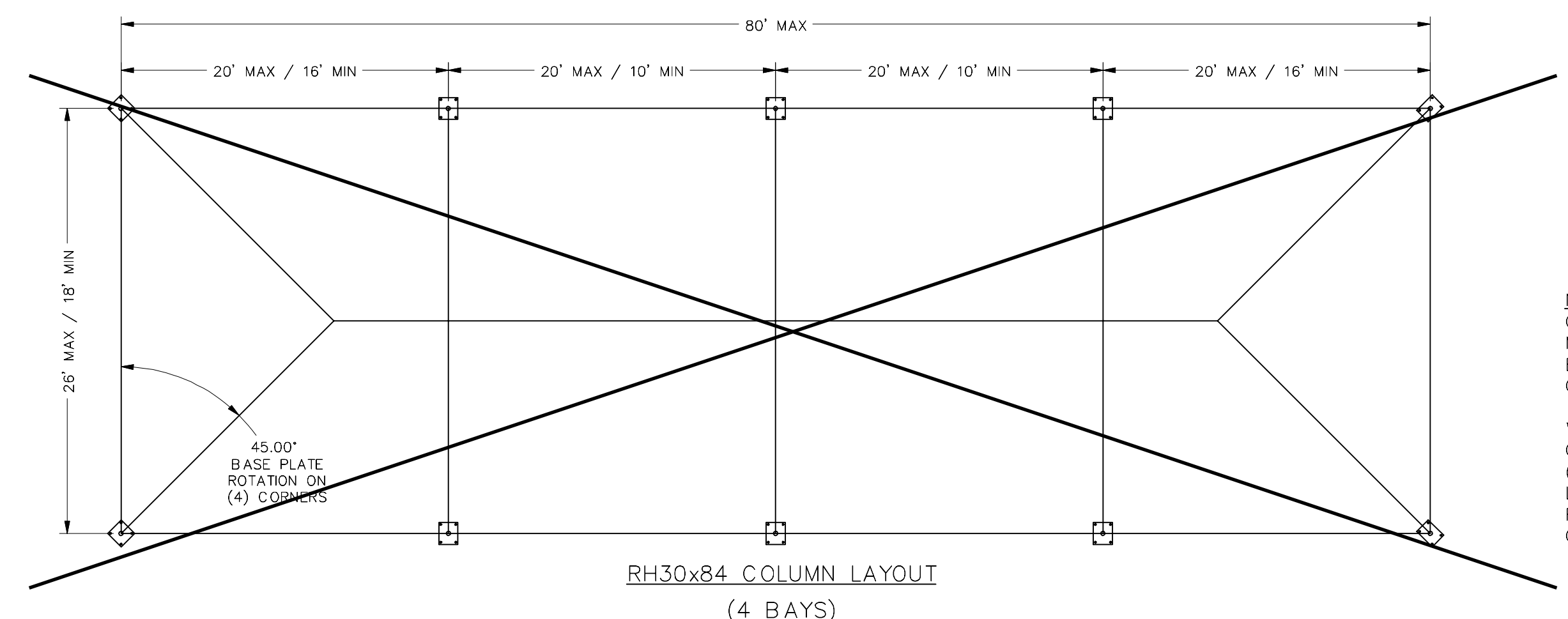
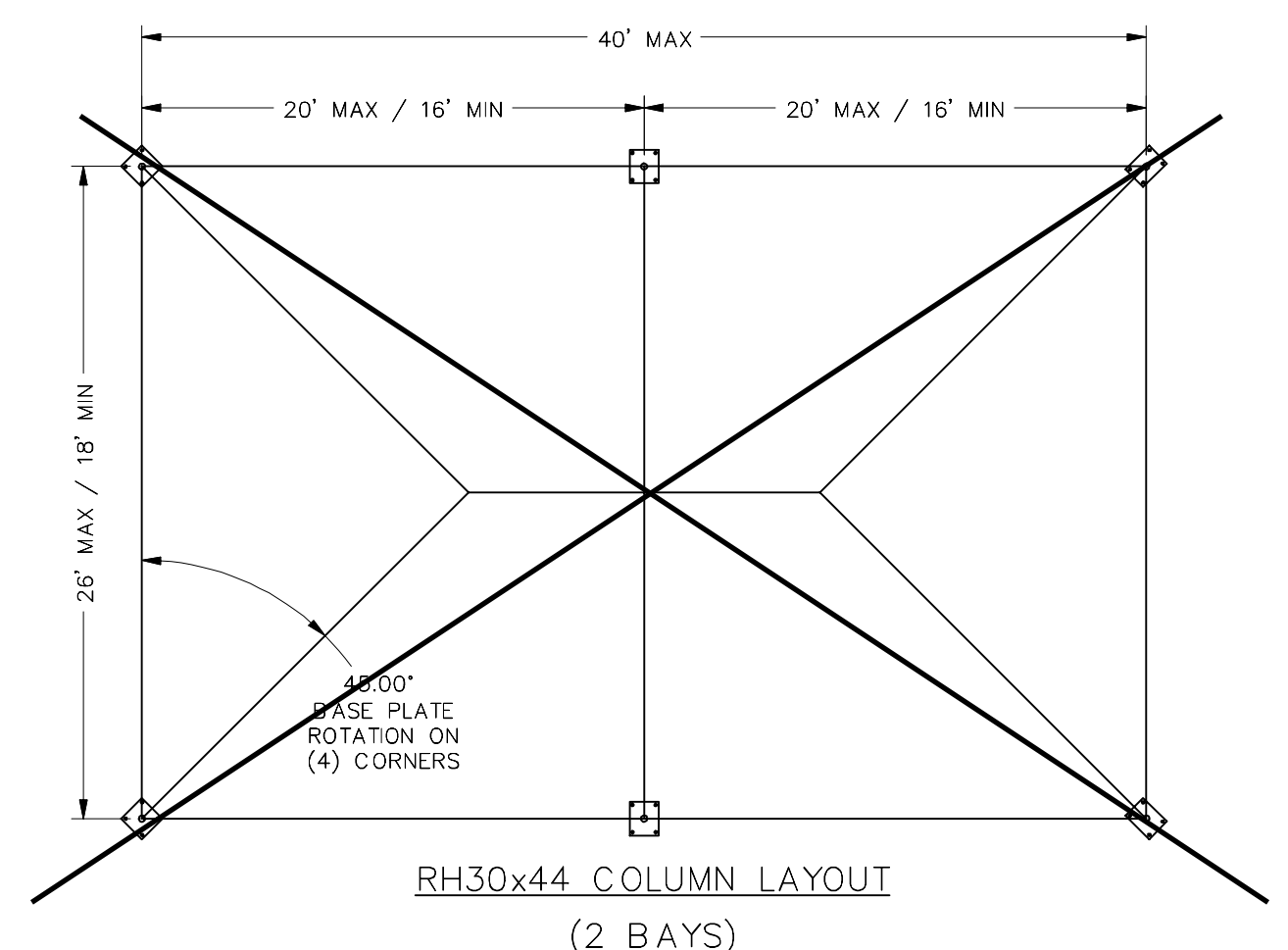
DSA 103



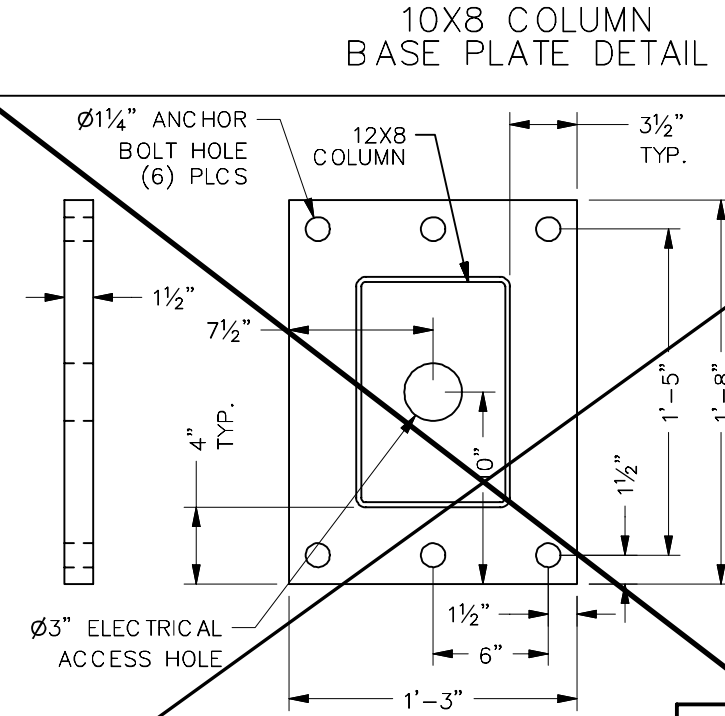
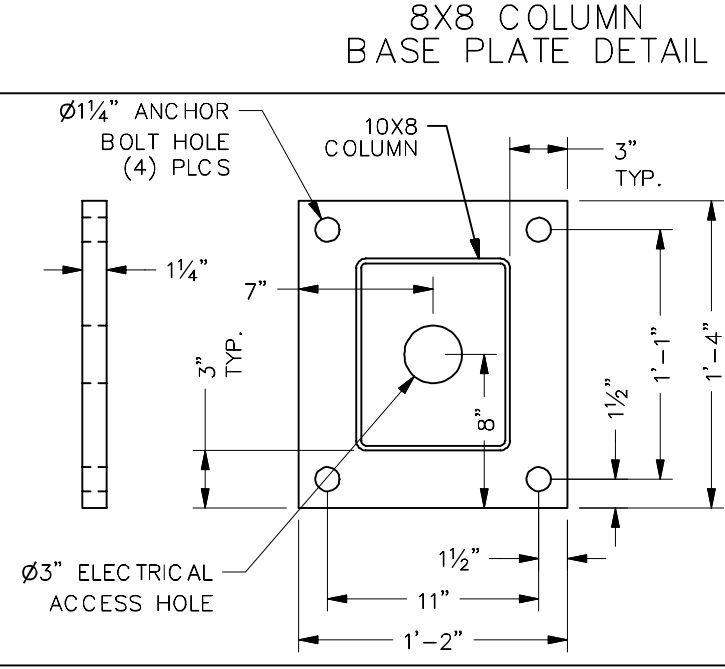
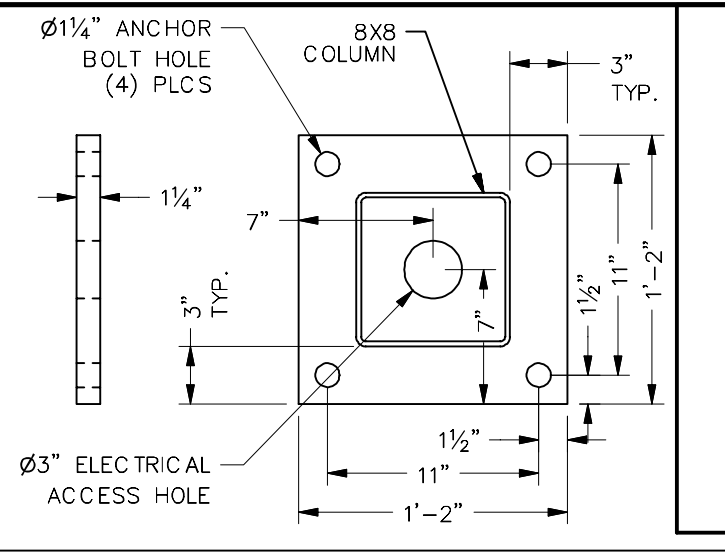
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HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

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

LS1.1



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

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

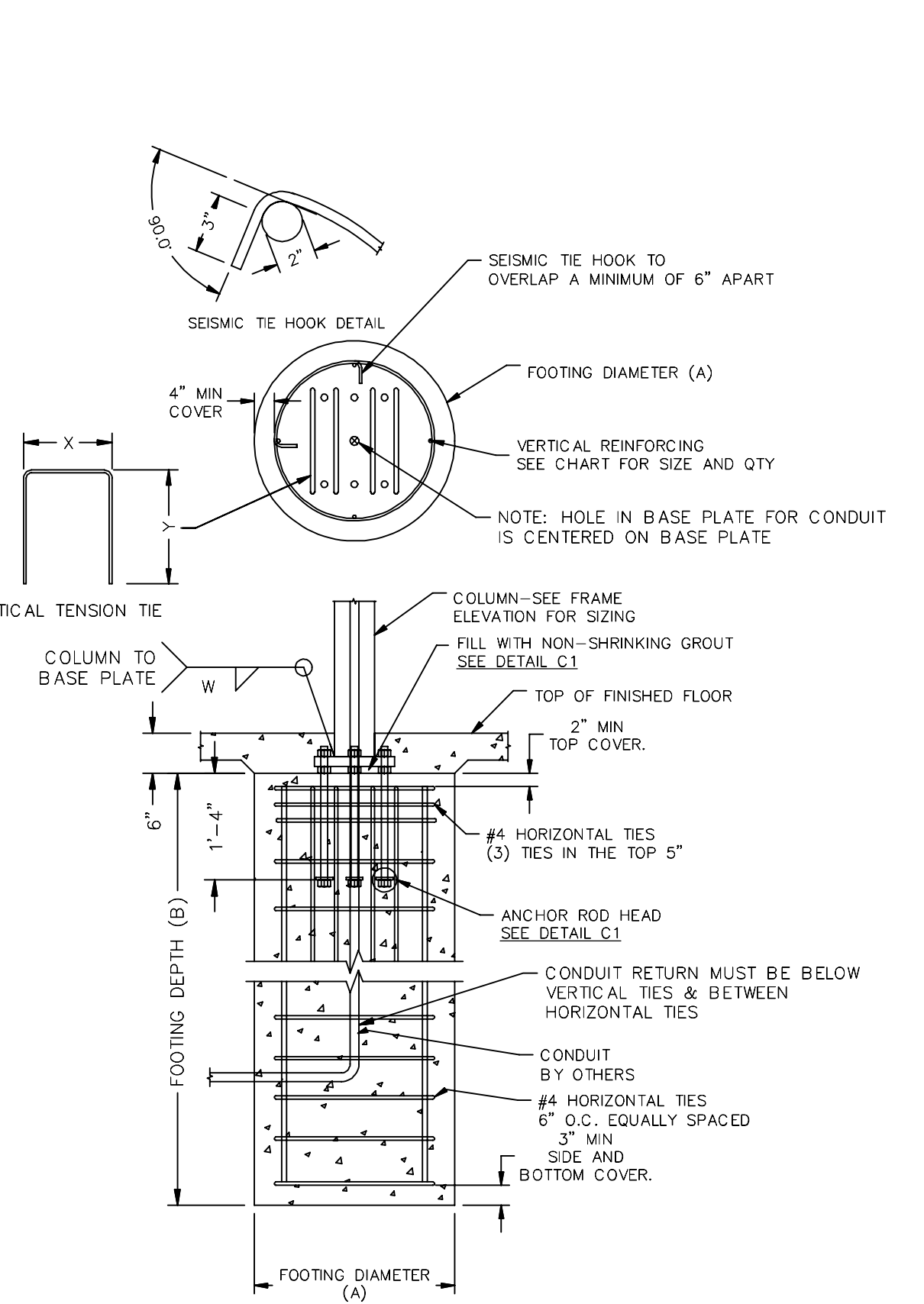
JRMA
 ARCHITECTS ENGINEERS
 2700 SATURN ST IRRGA, CA 92621
 T. 714.524.1870 F. 714.524.1875
 WWW.JRMA.COM

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

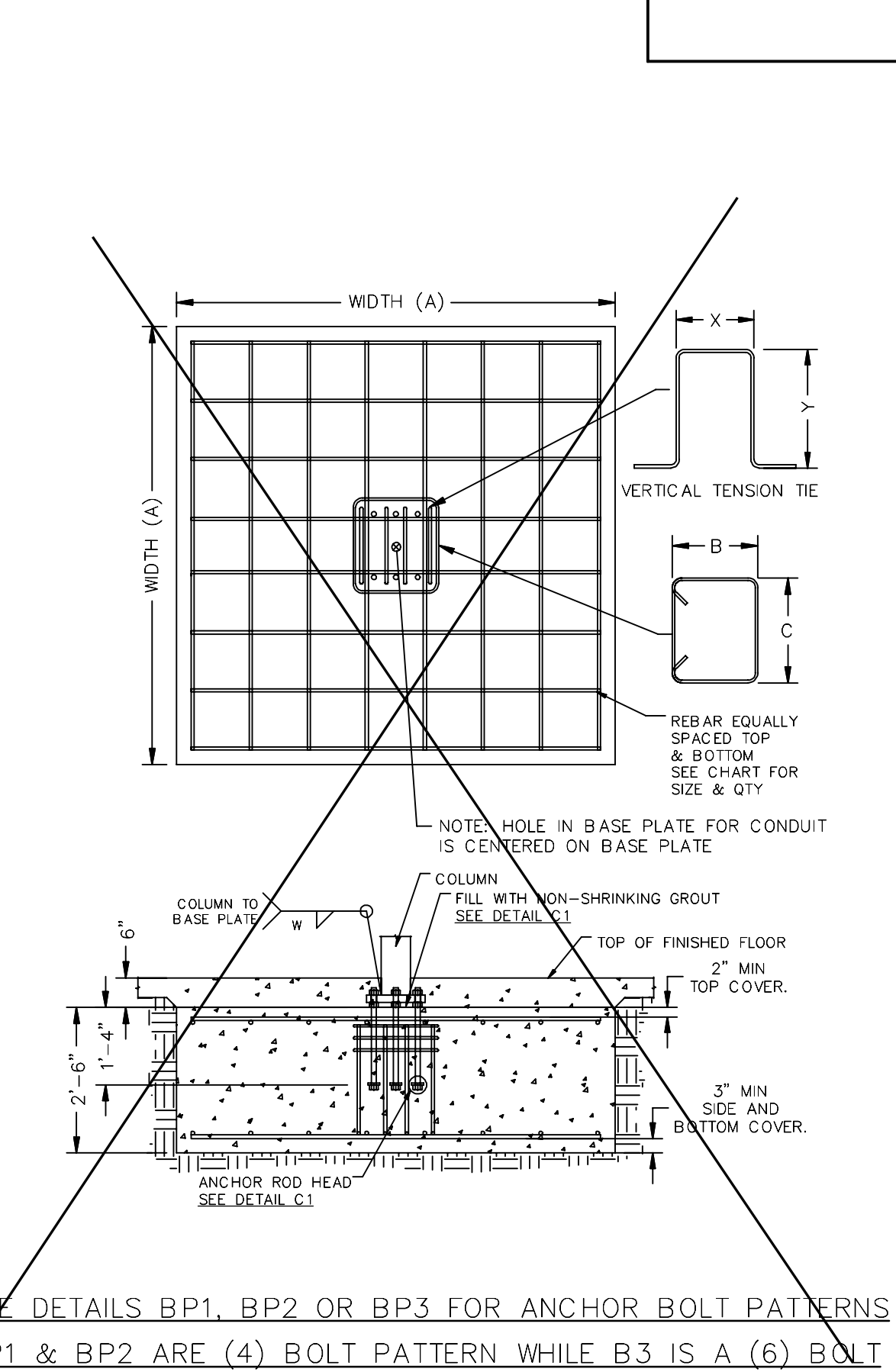
APPROVED
 DIV. OF THE STATE ARCHITECT
 APP-04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Rebar Size	Rebar Size	Weld
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	Vertical Rebar Qty	Rebar Size	Rebar Size	Weld	8' Corner Columns							
Soil Class 5 - 1500 psf Bearing	24	114	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	Weld	
Soil Class 4 - 2000 psf Bearing	24	98	6	6	14	40	5	17.3	5	1/4		
Soil Class 3 - 3000 psf Bearing	24	92	6	6	14	40	5	17.3	5	1/4		
8' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	36	144	12	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	Weld	
Soil Class 4 - 2000 psf Bearing	30	132	8	6	16	40	5	19.3	5	1/4		
Soil Class 3 - 3000 psf Bearing	30	118	8	6	16	40	5	19.3	5	1/4		
10' height - Corner Columns												
Soil Class 5 - 1500 psf Bearing	24	120	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	Weld	
Soil Class 4 - 2000 psf Bearing	24	102	6	6	14	40	5	17.3	5	1/4		
Soil Class 3 - 3000 psf Bearing	24	92	6	6	14	40	5	17.3	5	1/4		
10' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	36	136	12	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	Weld	
Soil Class 4 - 2000 psf Bearing	30	124	8	6	16	40	5	19.3	5	1/4		
Soil Class 3 - 3000 psf Bearing	30	112	8	6	16	40	5	19.3	5	1/4		
12' height - Corner Columns												
Soil Class 5 - 1500 psf Bearing	30	132	8	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	Weld	
Soil Class 4 - 2000 psf Bearing	30	112	8	6	16	40	5	17.3	5	5/16		
Soil Class 3 - 3000 psf Bearing	30	102	8	6	16	40	5	17.3	5	5/16		
12' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	36	140	12	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	Weld	
Soil Class 4 - 2000 psf Bearing	36	120	12	6	20	40	5	16.6	21.3	5	1/4	
Soil Class 3 - 3000 psf Bearing	36	108	12	6	20	40	5	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

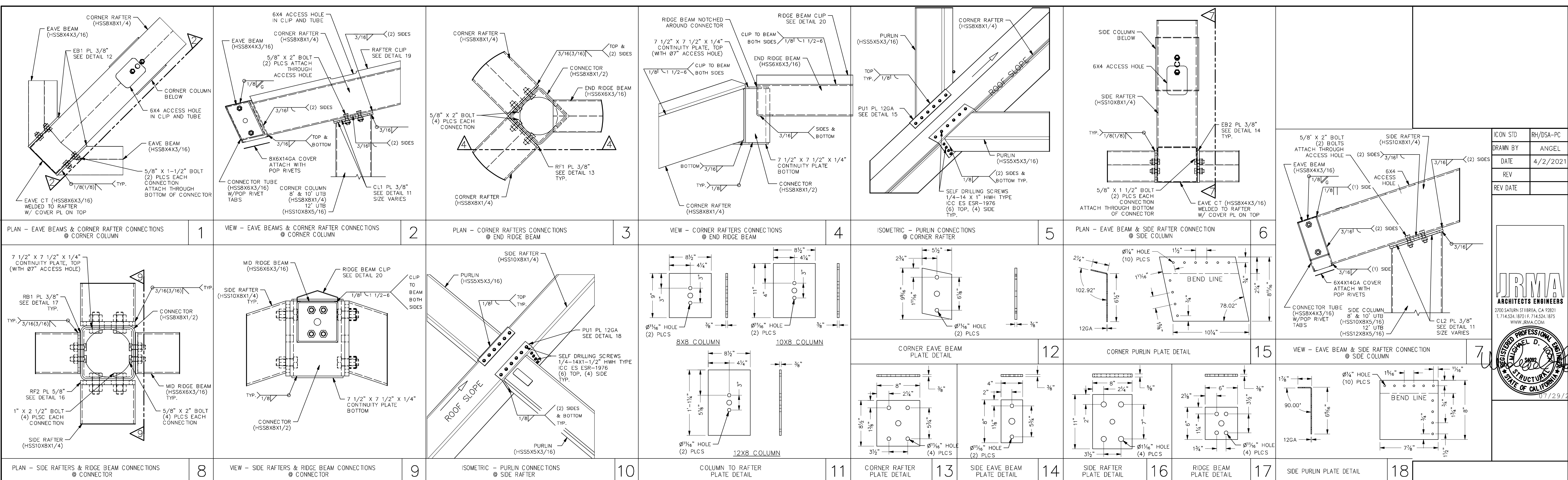
PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

ICON
 Shelter Systems Inc
 DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHELTERS.COM
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 HOLLAND MI, 49423
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 800.748.0985
 616.396.0944 FX

LS3.0

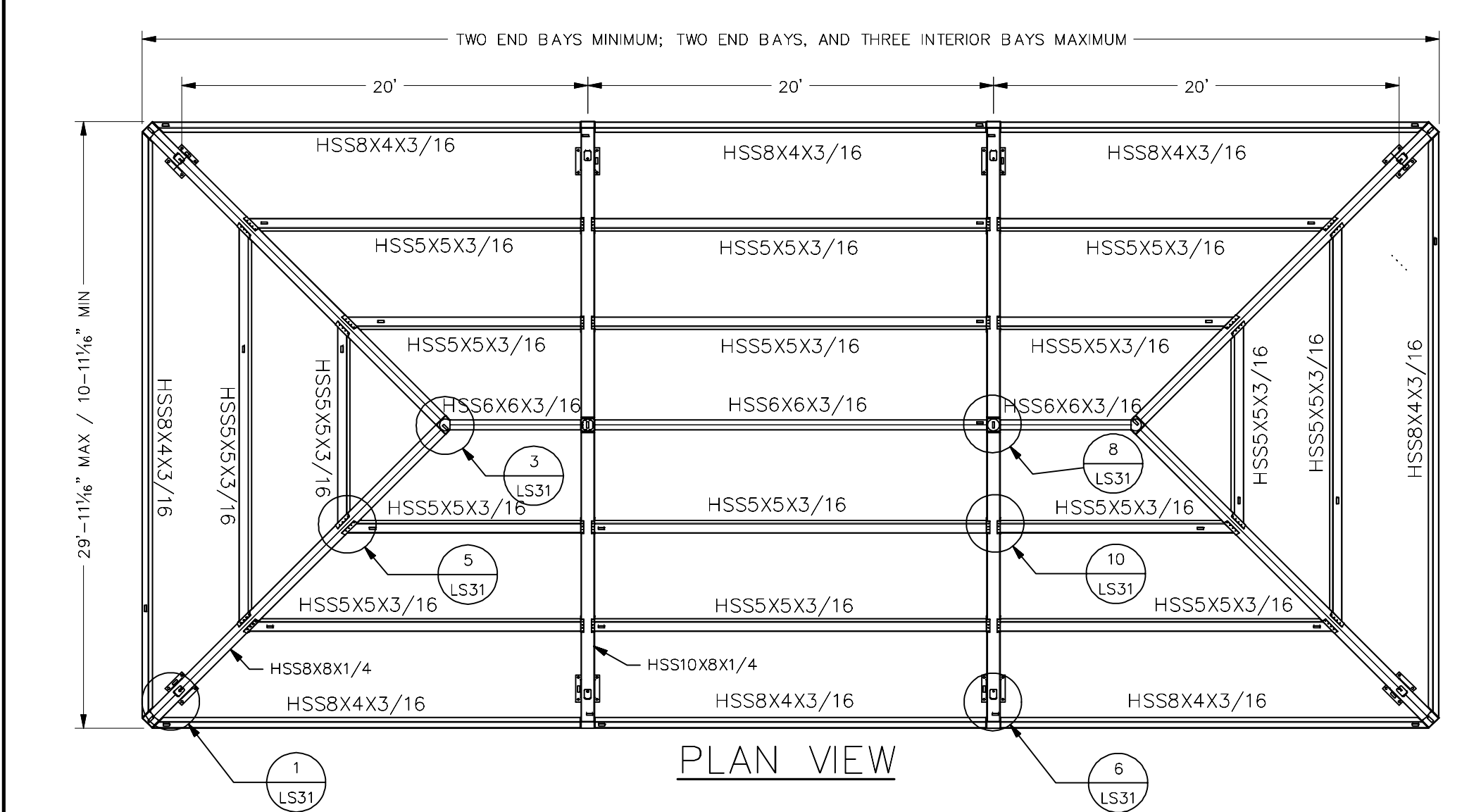
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 2700 SATURN ST IRRIGA, CA 92621
 T. 714.524.8701 F. 714.524.1875
 WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 44890
 STATE OF CALIFORNIA



MODEL DESIGNATION

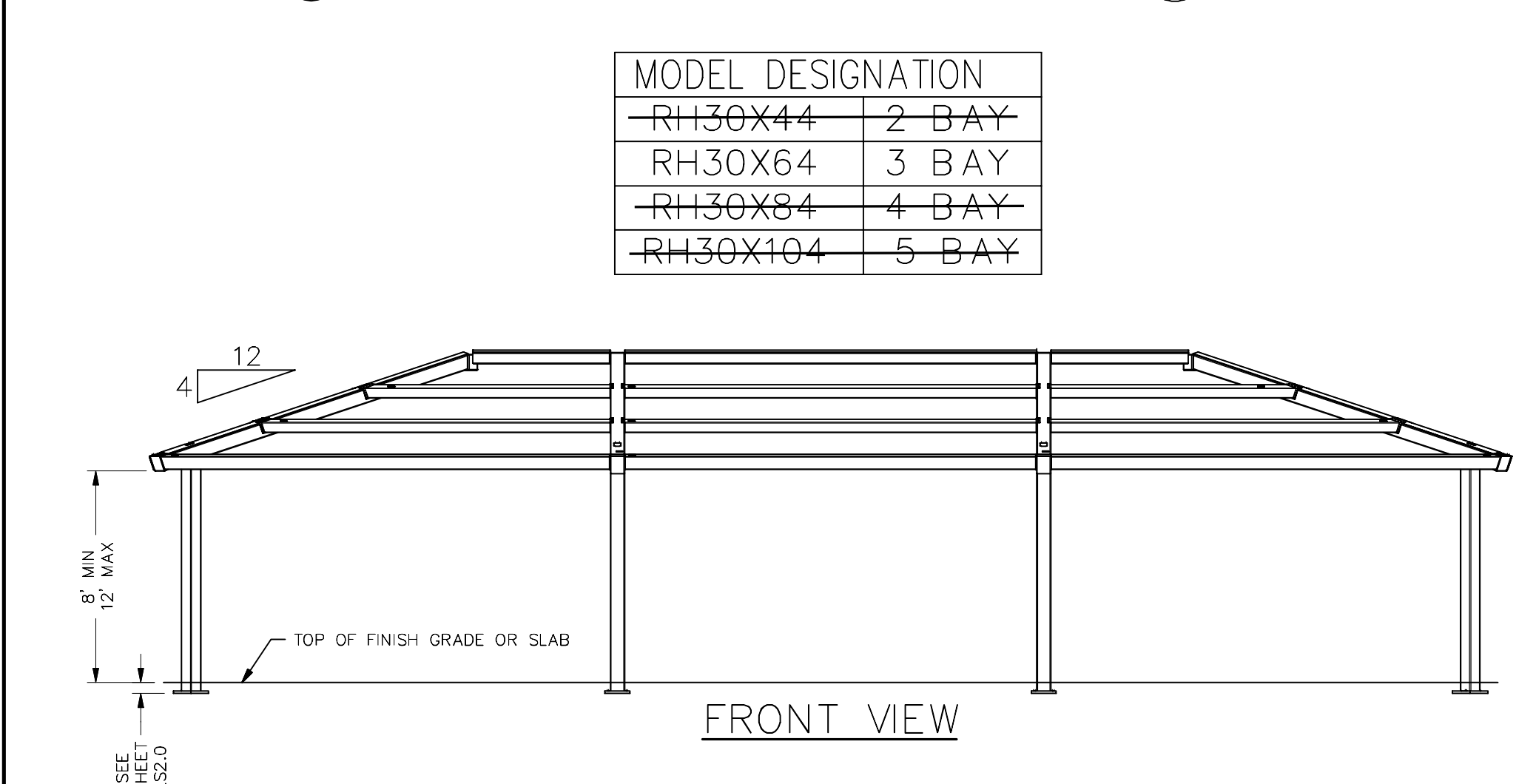
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY

*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

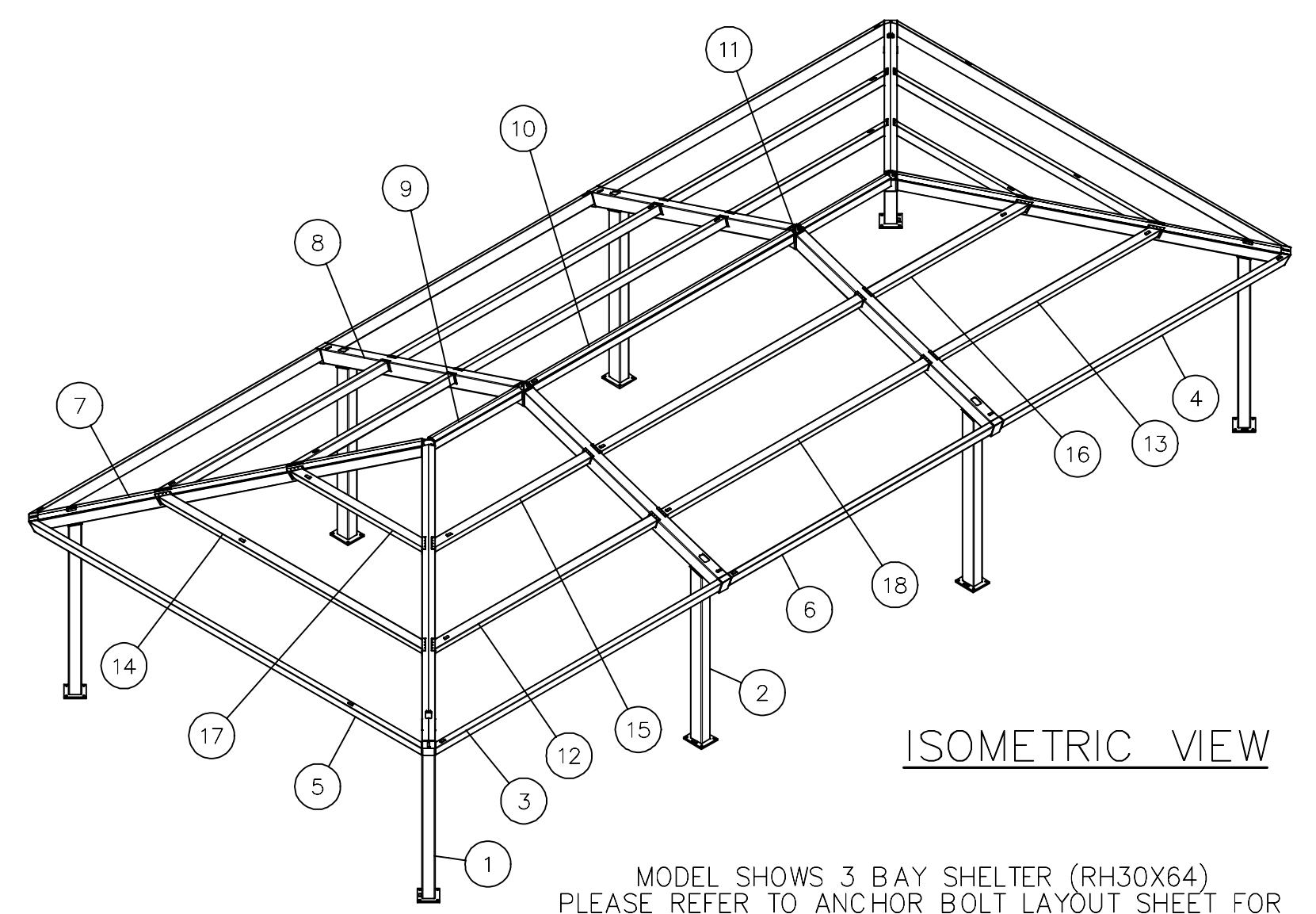
**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

- 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



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

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

30' WIDE
 RECTANGULAR HIP
 FRAMING &
 CONNECTION DETAILS

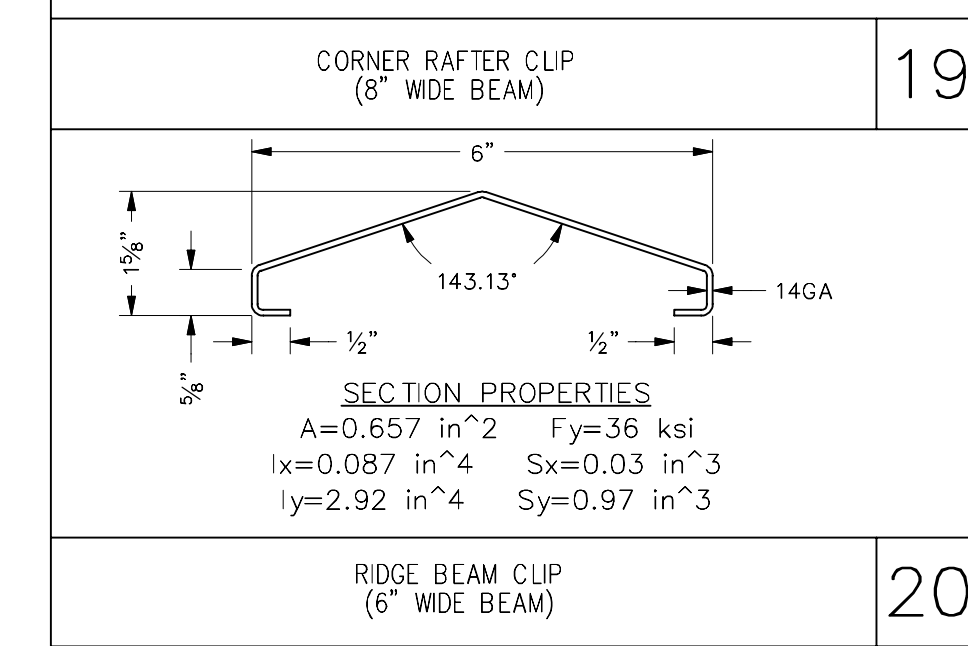
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 Shelter Systems Inc

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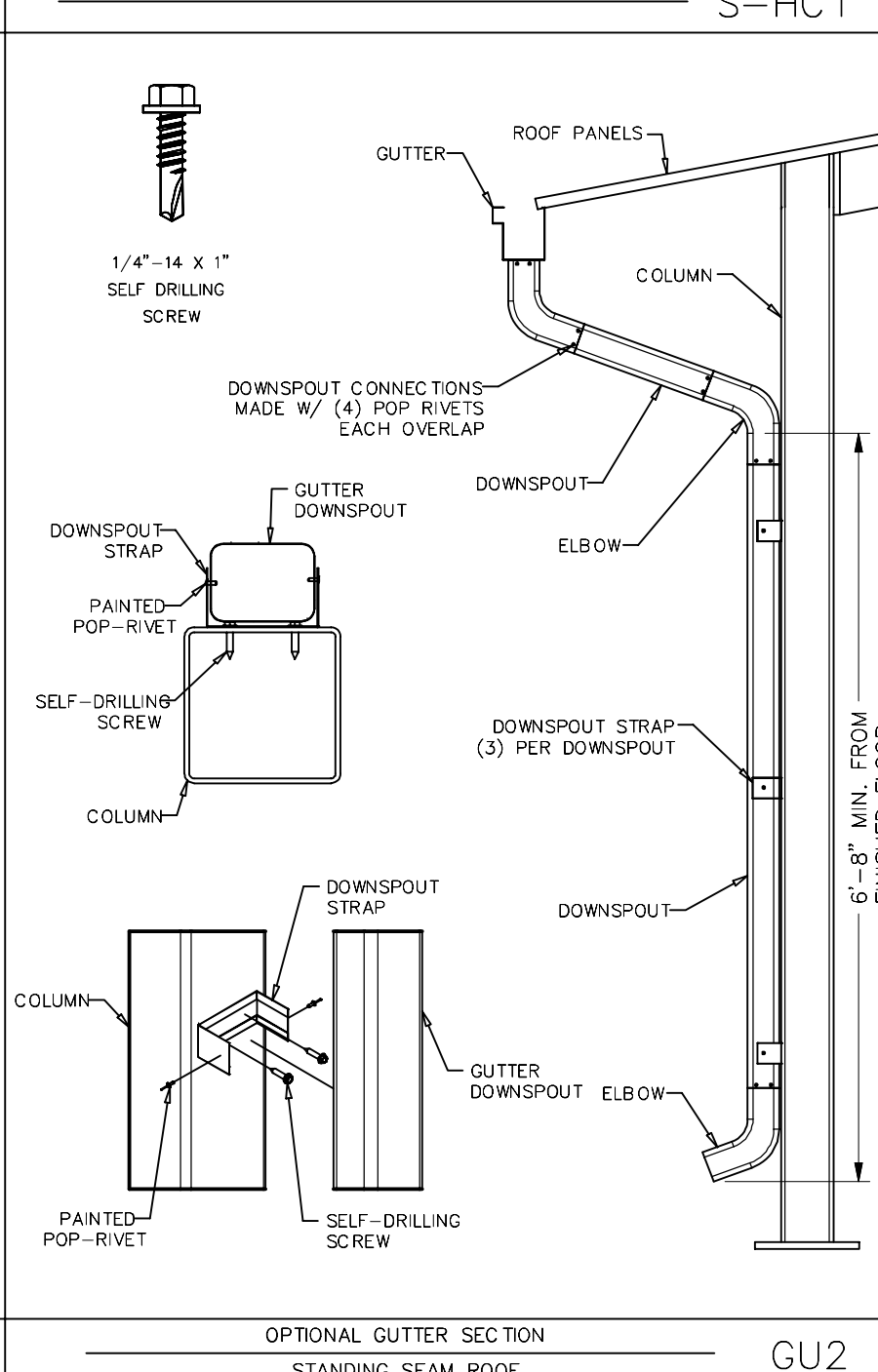
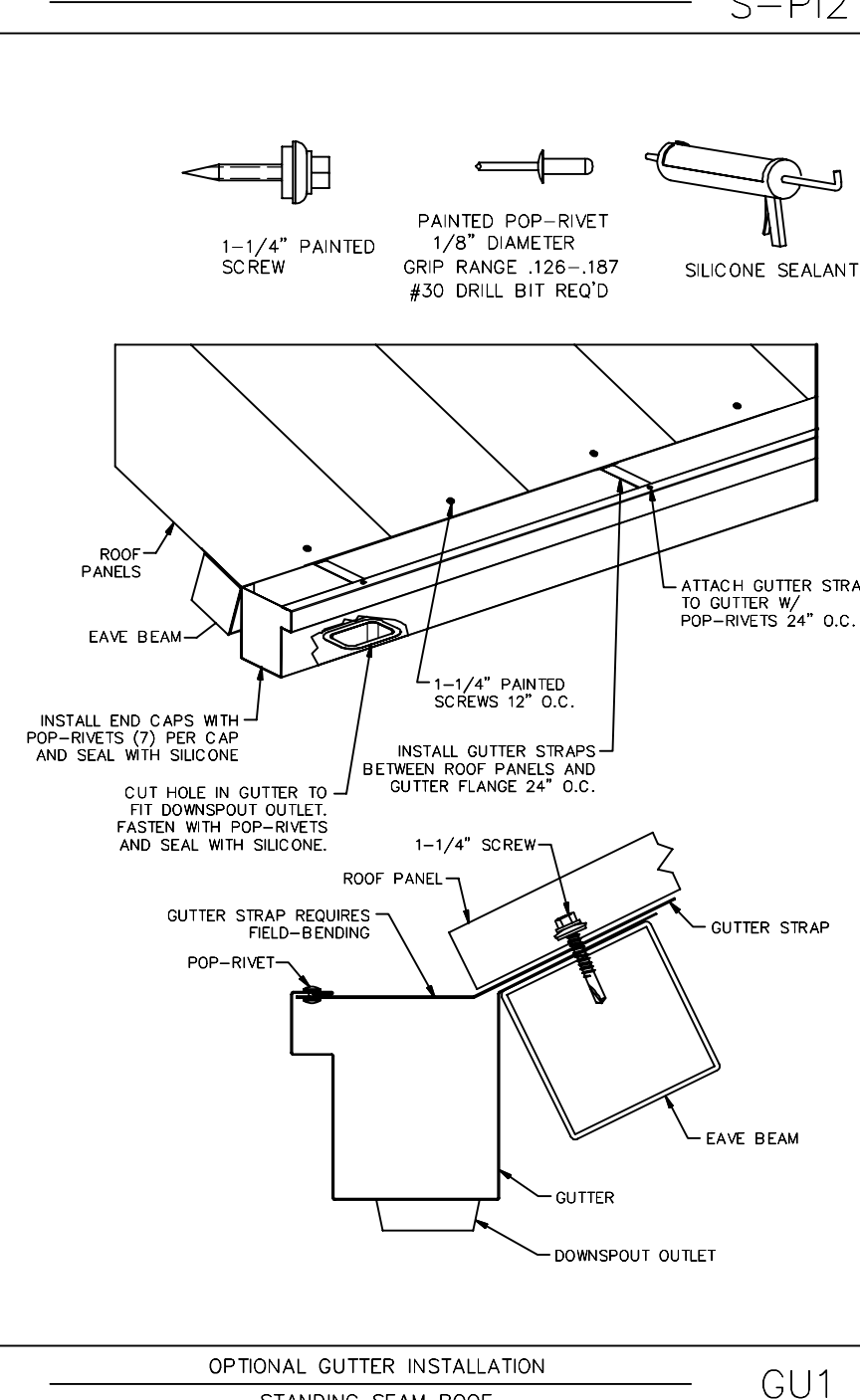
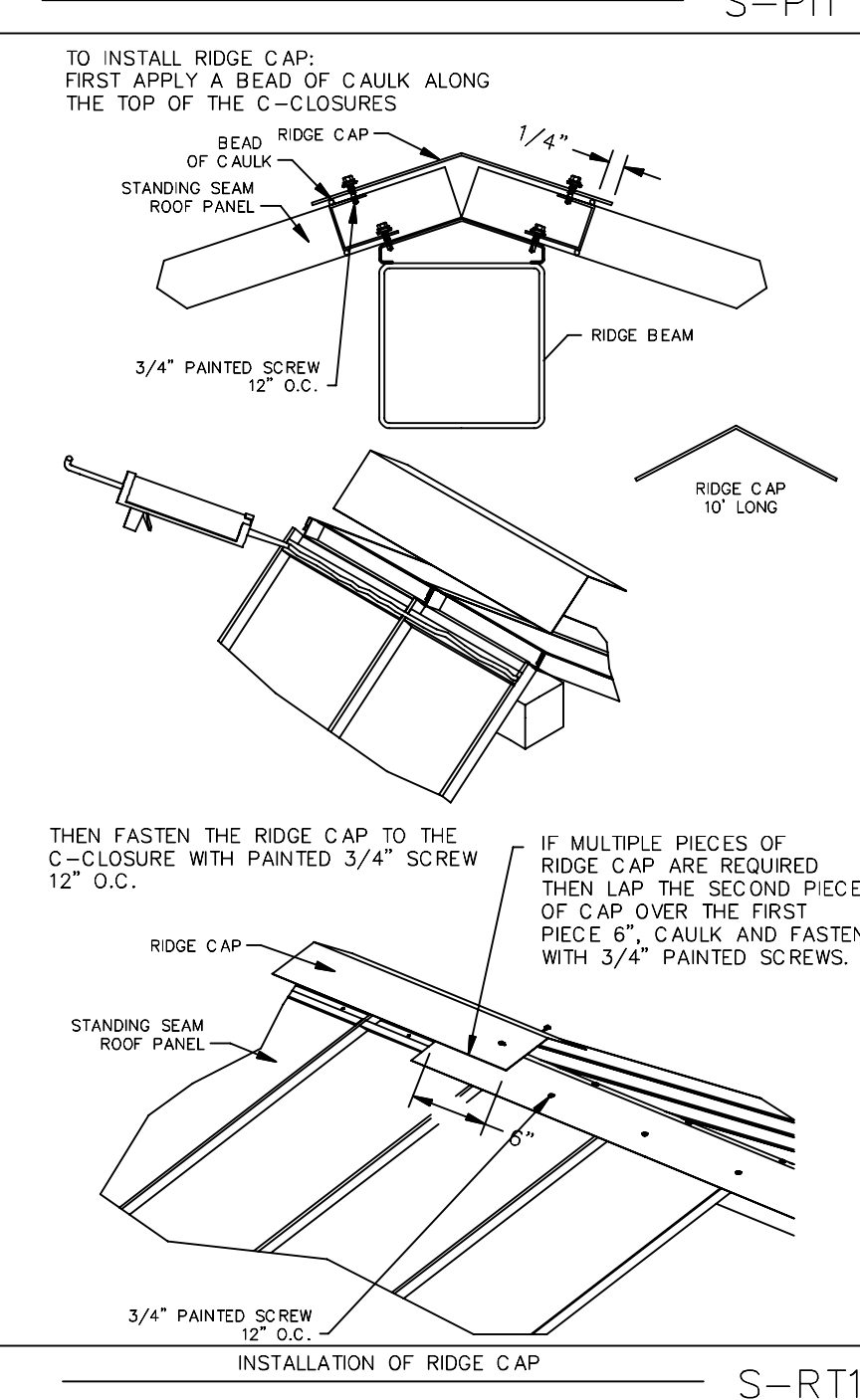
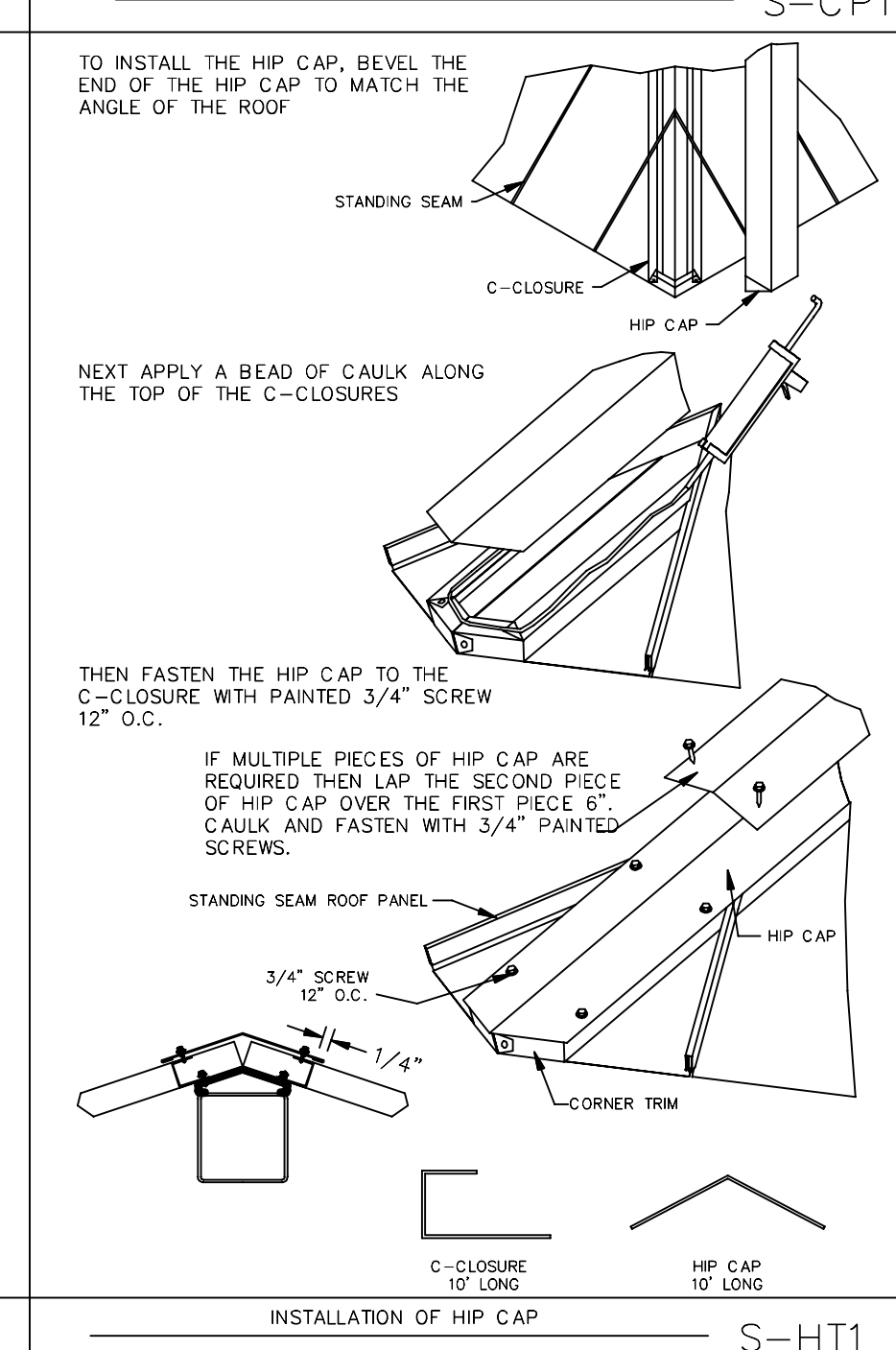
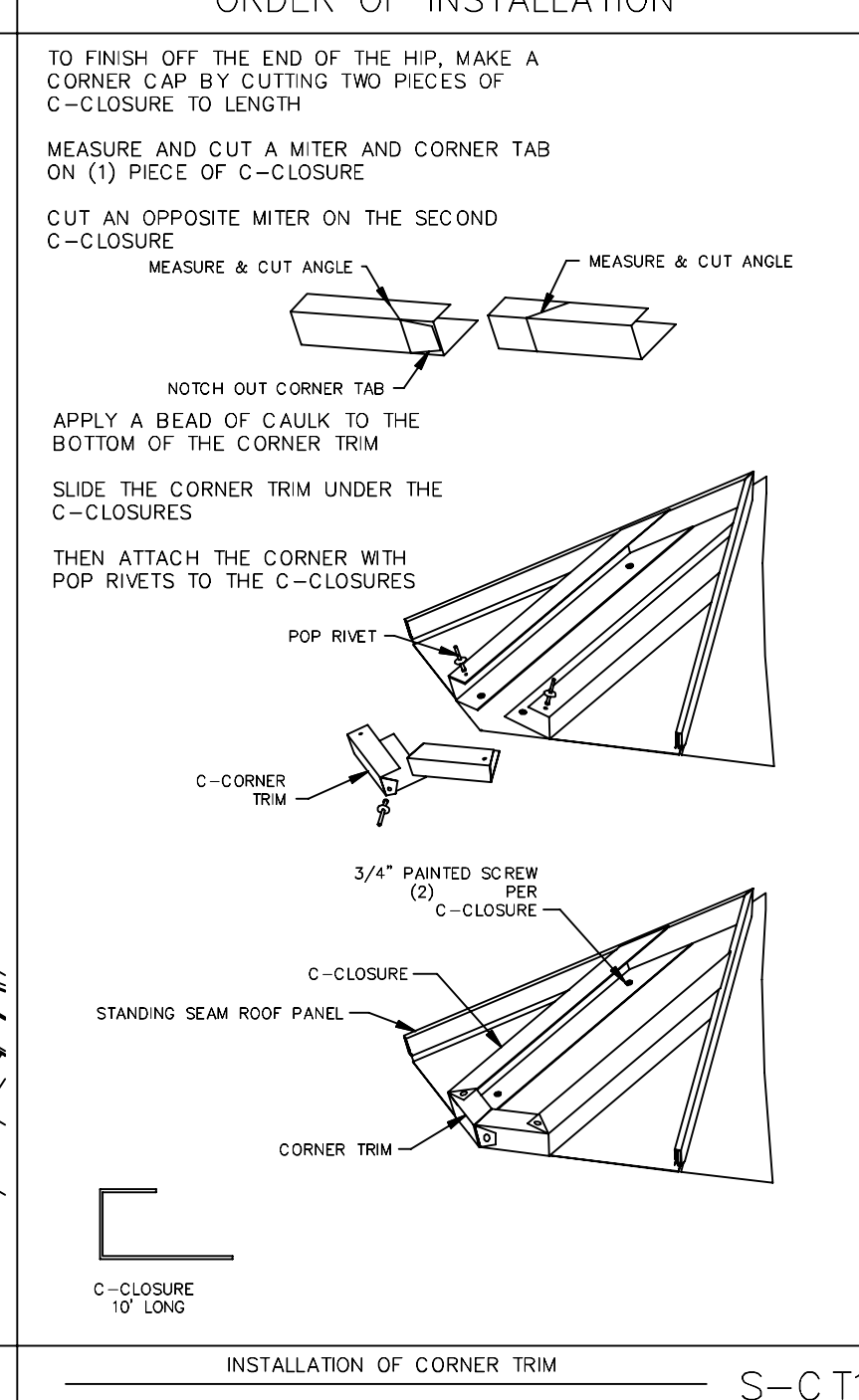
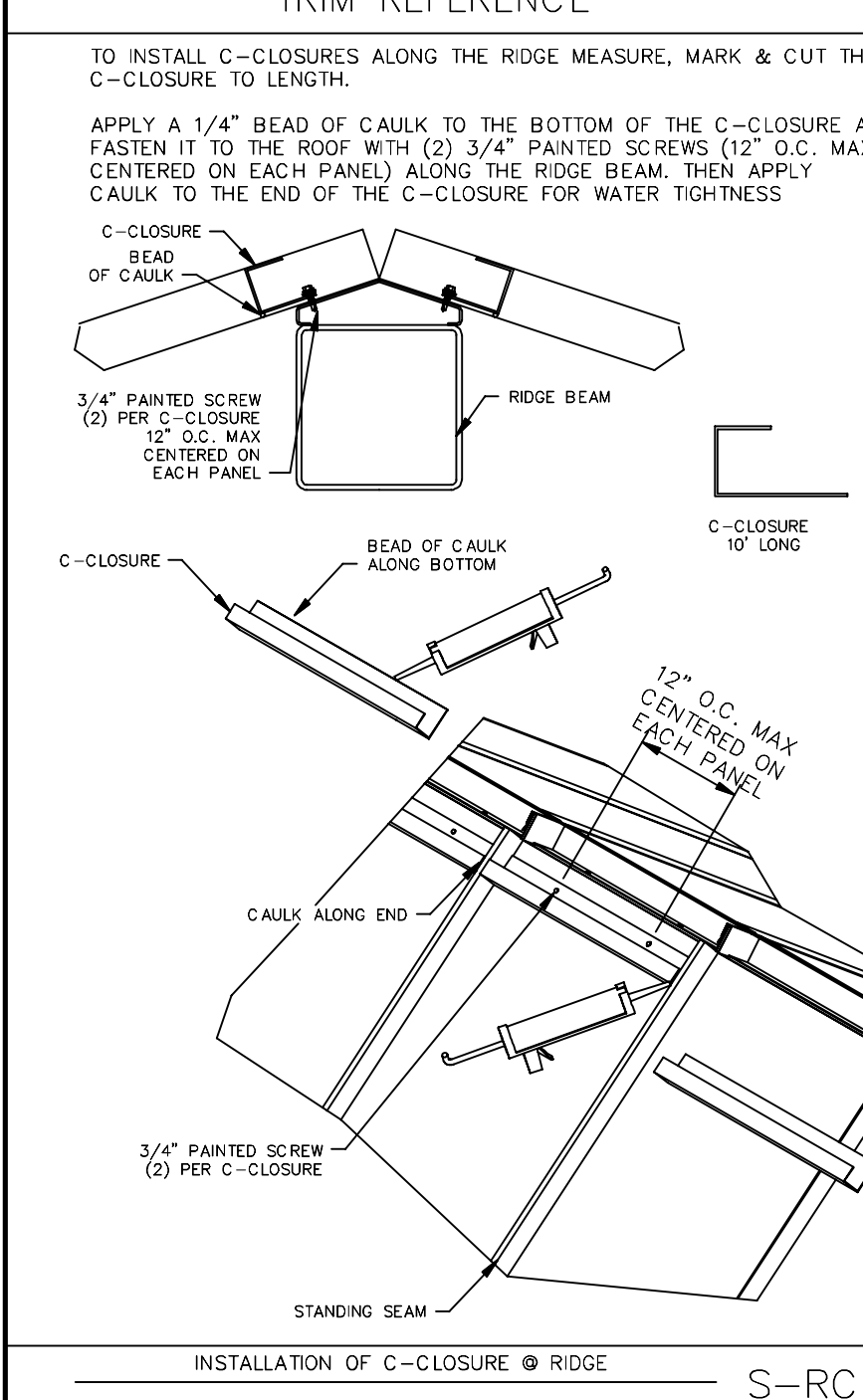
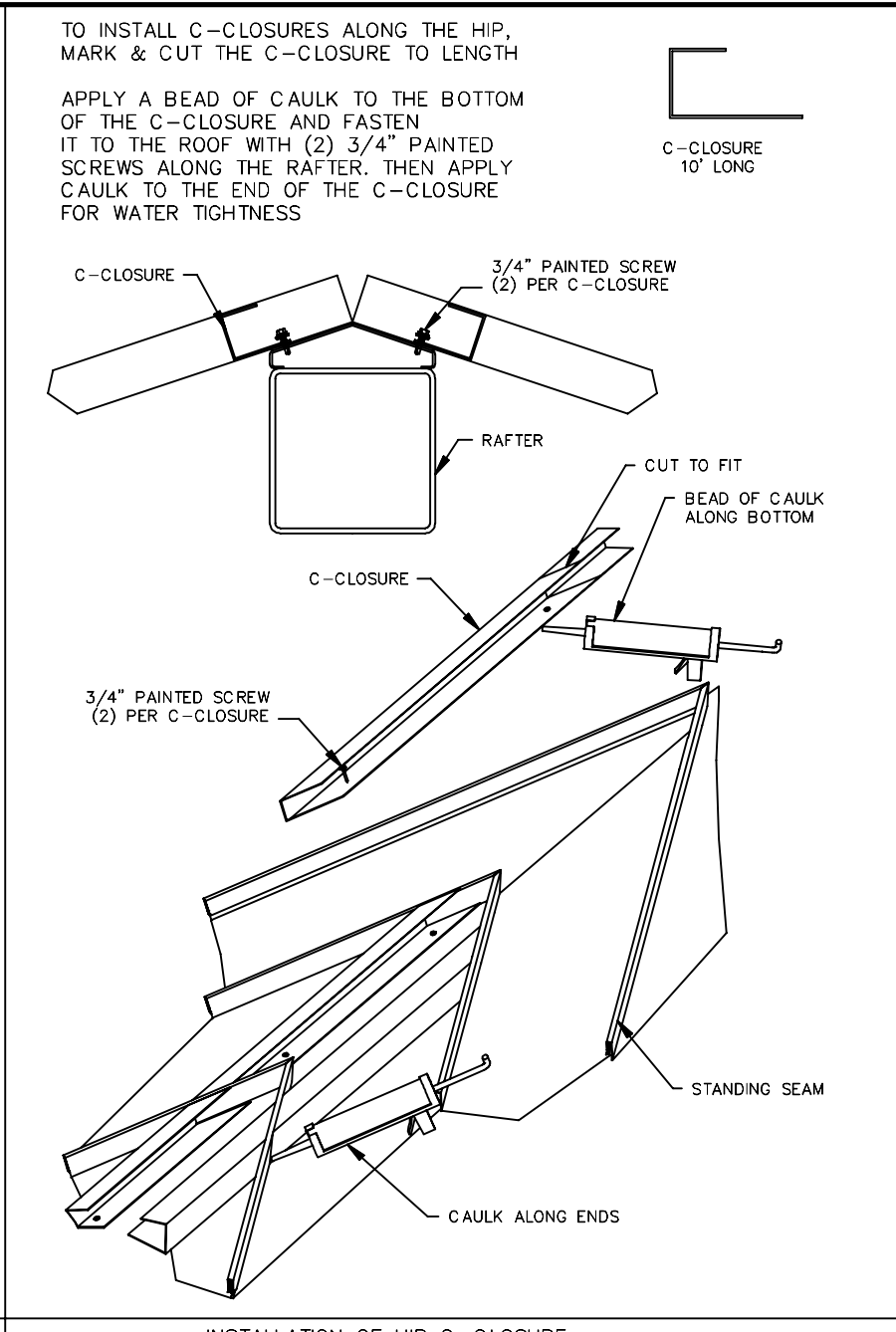
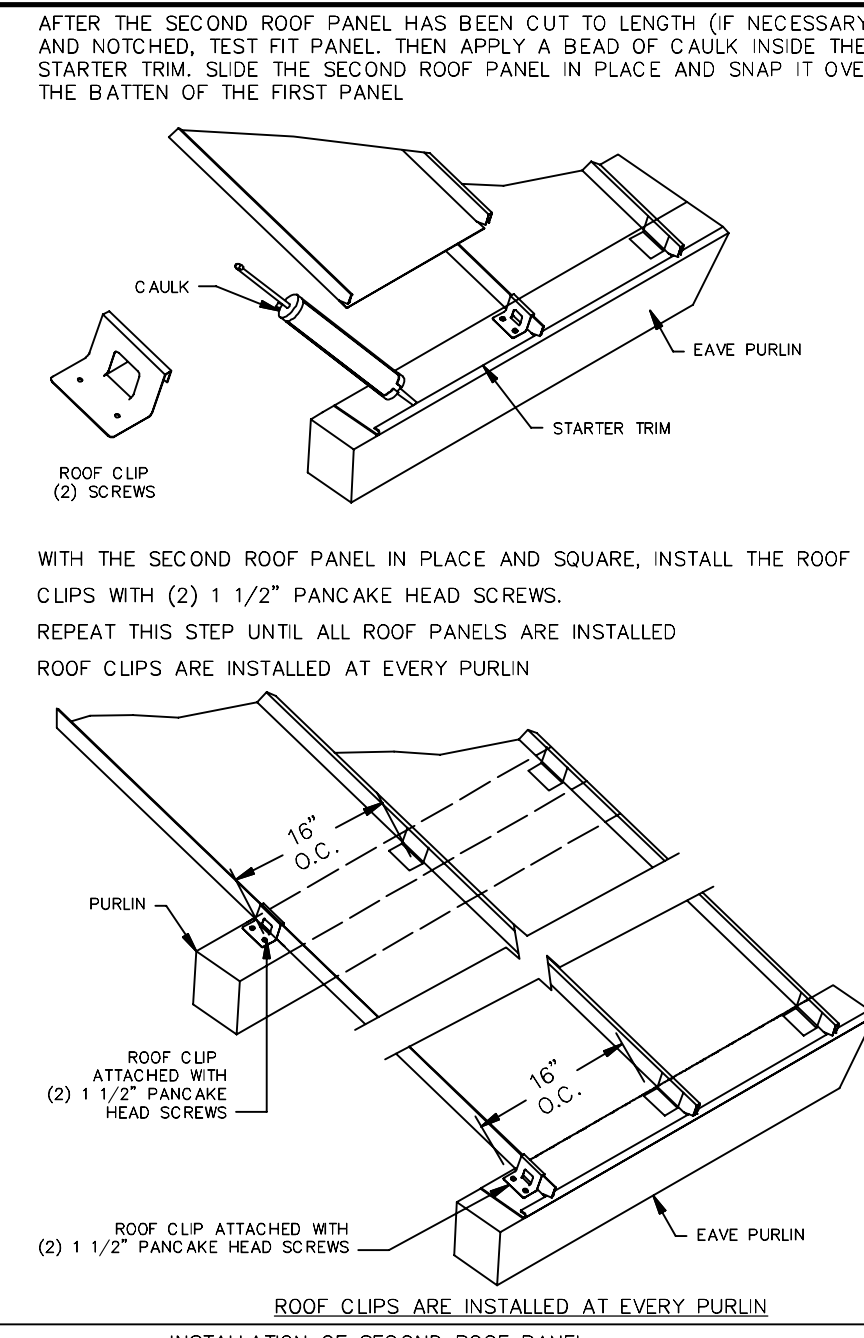
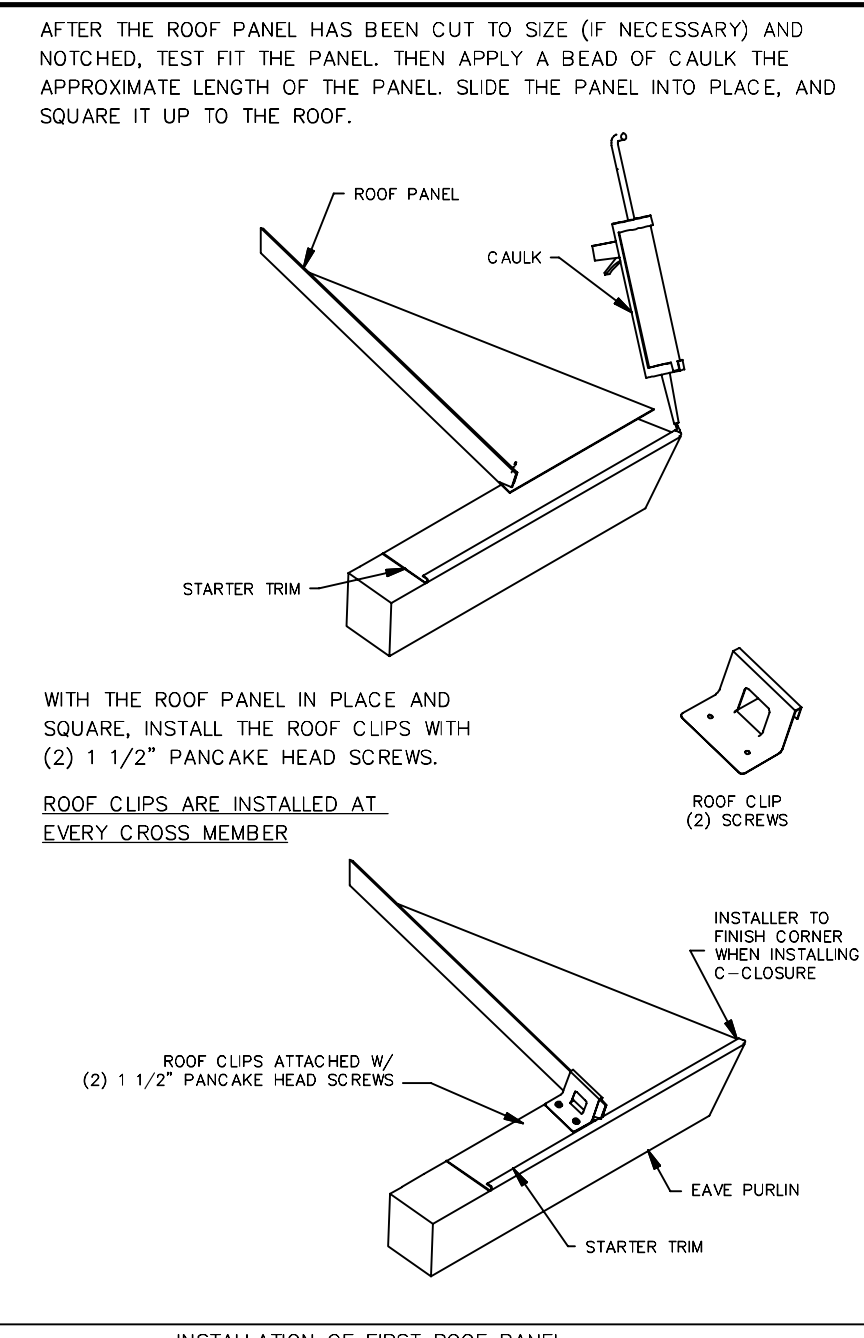
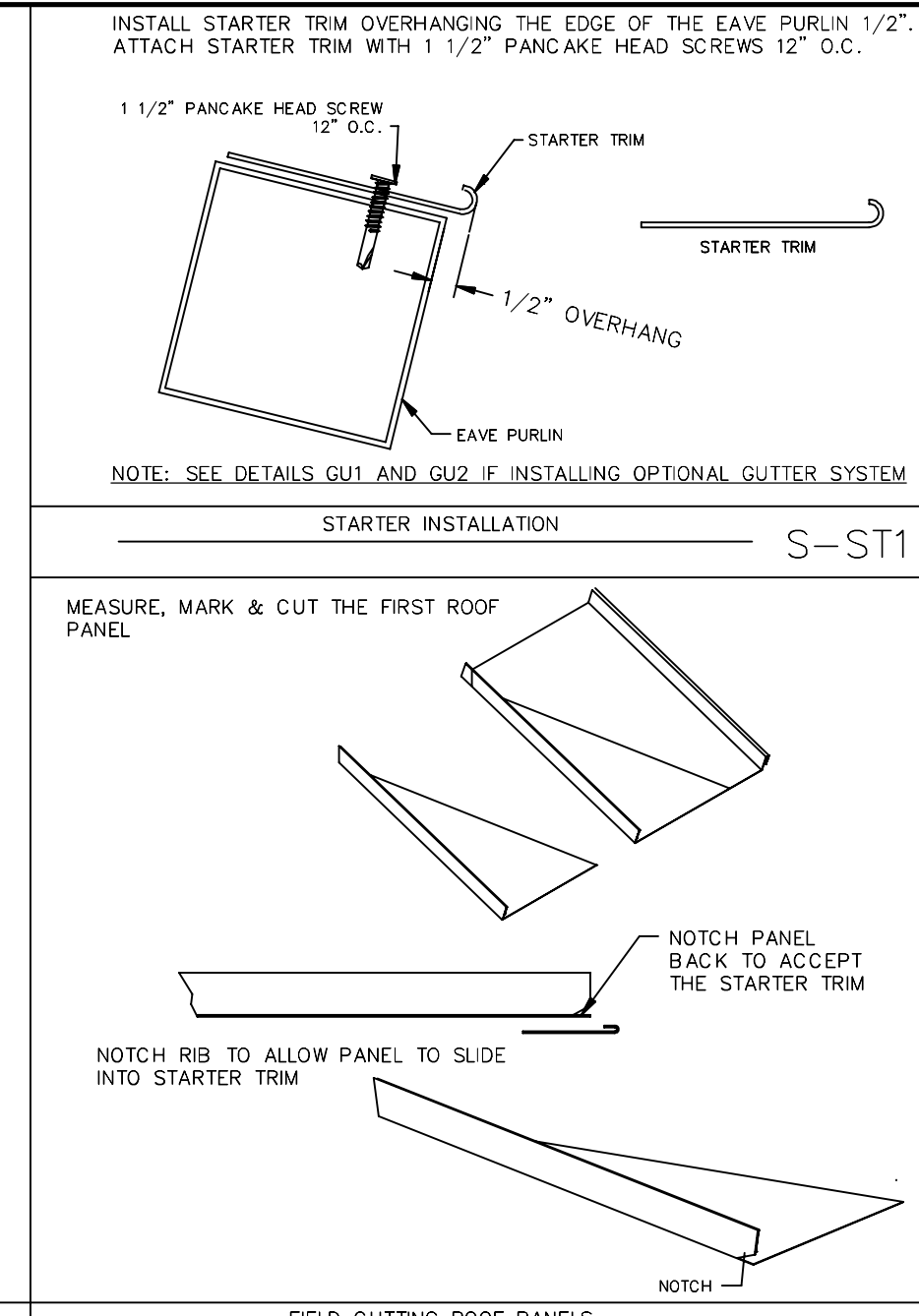
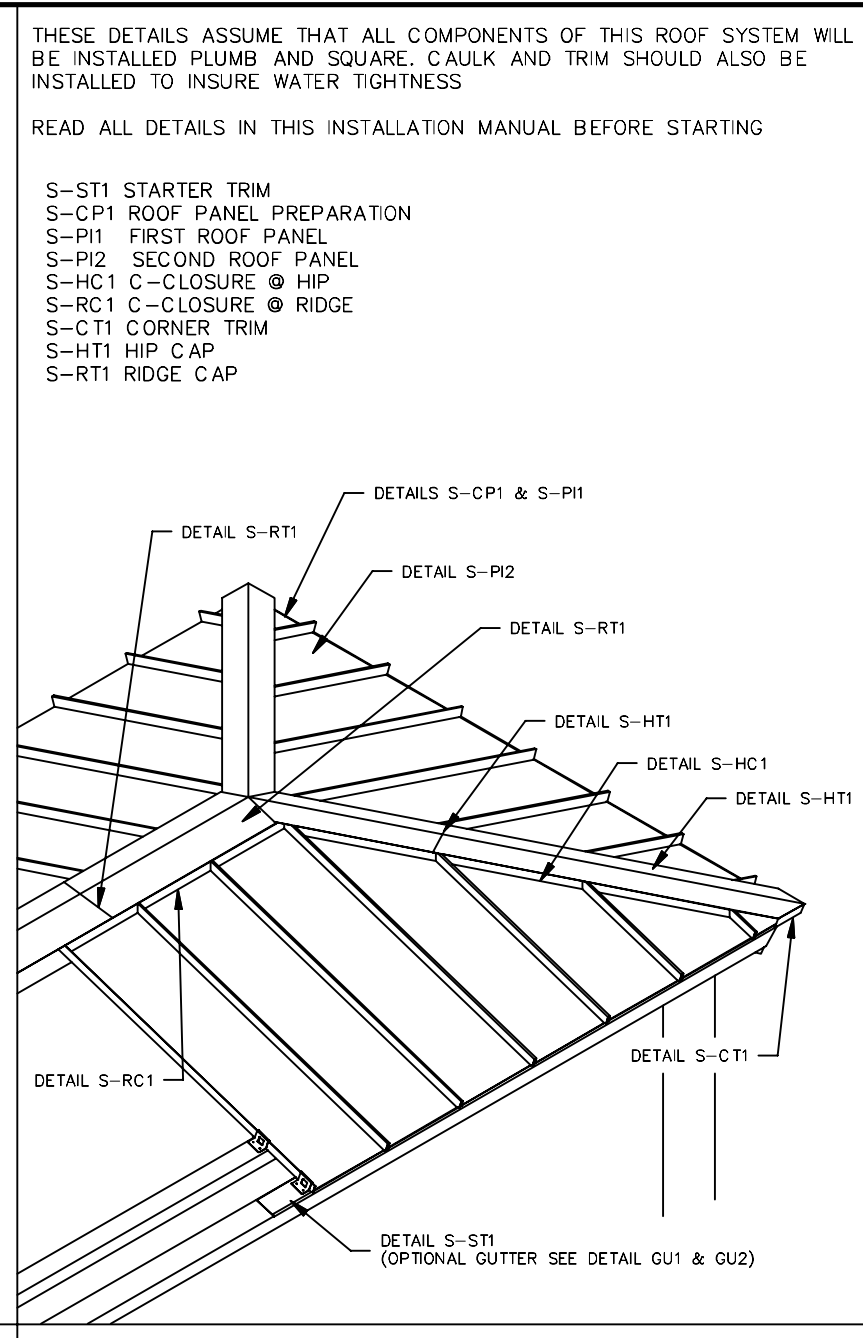
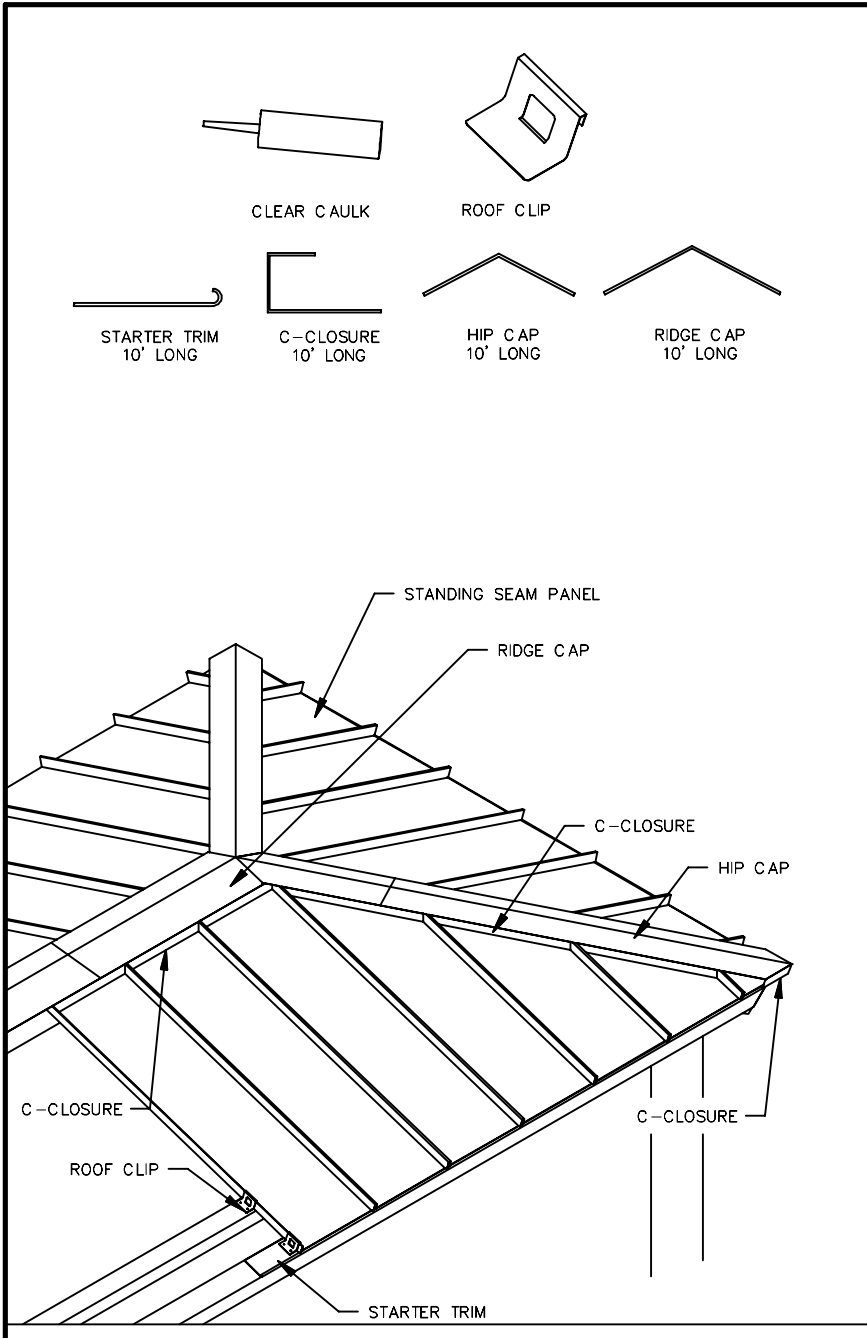
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 616.396.0944 FX



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

LS3.1



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, DESIGNS 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.

1 1/2" PANCAKE HEAD SCREW 12-24 x 1 1/2" SDS ICC ESR-1976

3/4" PAINTED SCREW (3) PER C-CLOSURE

1/4" x 1/4" x 1" SELF DRILLING SCREW

DOWNSPOUT CONNECTIONS MADE W/ (4) POP RIVETS EACH OVERLAP

DOWNSPOUT STRAP (3) PER DOWNSPOUT

DOWNSPOUT ELBOW

DOWNSPOUT OUTLET

16" COVER WIDTH

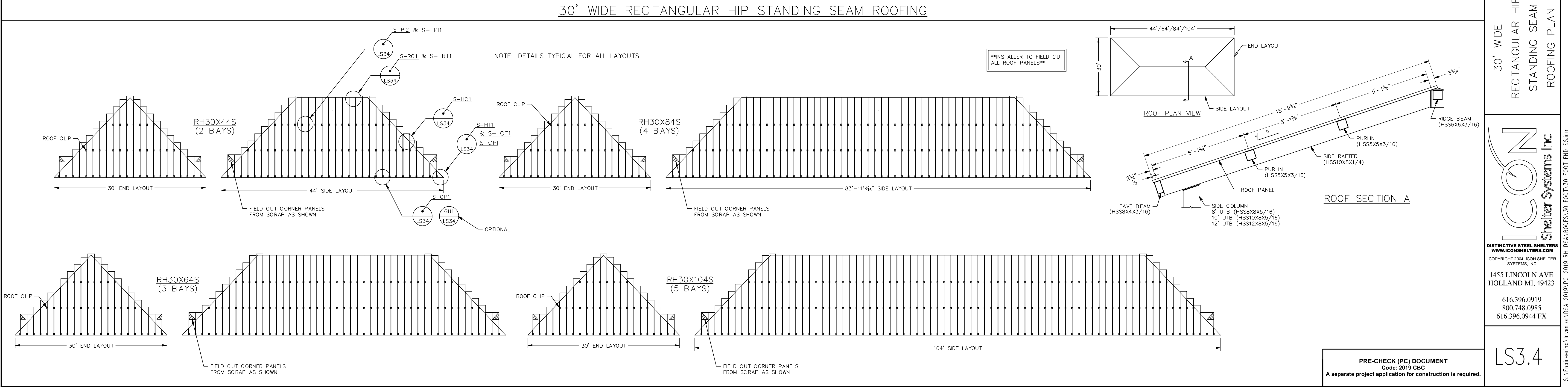
MEDALLION LOK STANDING SEAM PANEL SECTION 24 go. Fy = 50 ksi Fu = 65 ksi ICC ESL-1082

SECTION PROPERTIES (PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.086 in⁴
Sx=0.0561 in³
Mx=1.68 in-kips

BOTTOM IN COMPRESSION
Ix=0.040 in⁴
Sx=0.0479 in³
Mx=1.248 in-kips

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



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

JRMA ARCHITECTS ENGINEERS
2700 SATURN ST BLDG. CA 92621
T. 714.524.8701 F. 714.524.1875
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. JOHNSON
NO. 44892
STATE OF CALIFORNIA
07/29/2021

30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING PLAN

ICON Shelter Systems Inc

1455 LINCOLN AVE HOLLAND MI, 49423

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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/CUTOOUT 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.

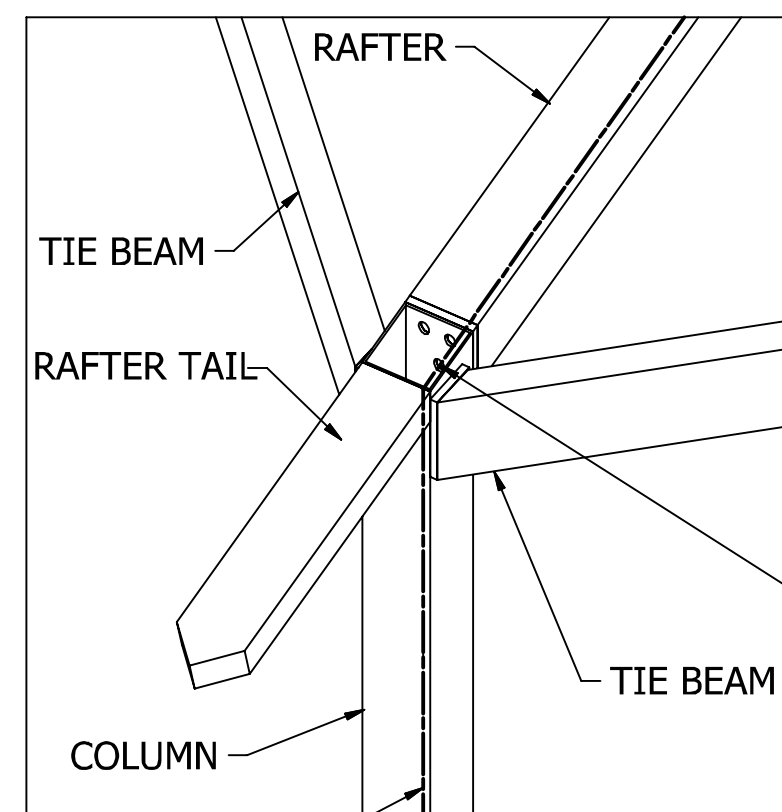
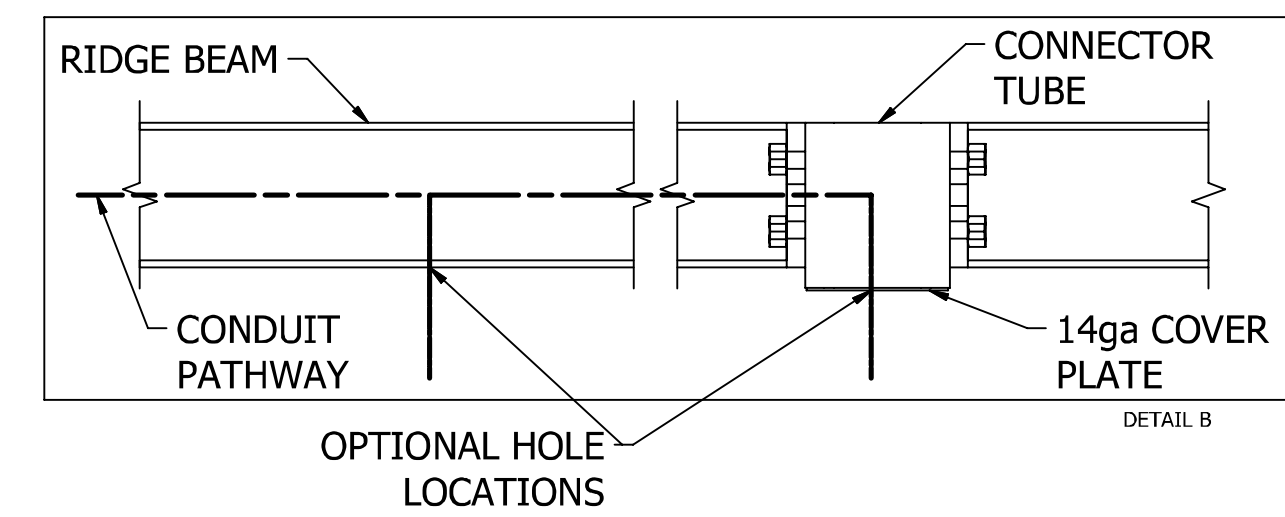
PRELIMINARY: NOT FOR CONSTRUCTION

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

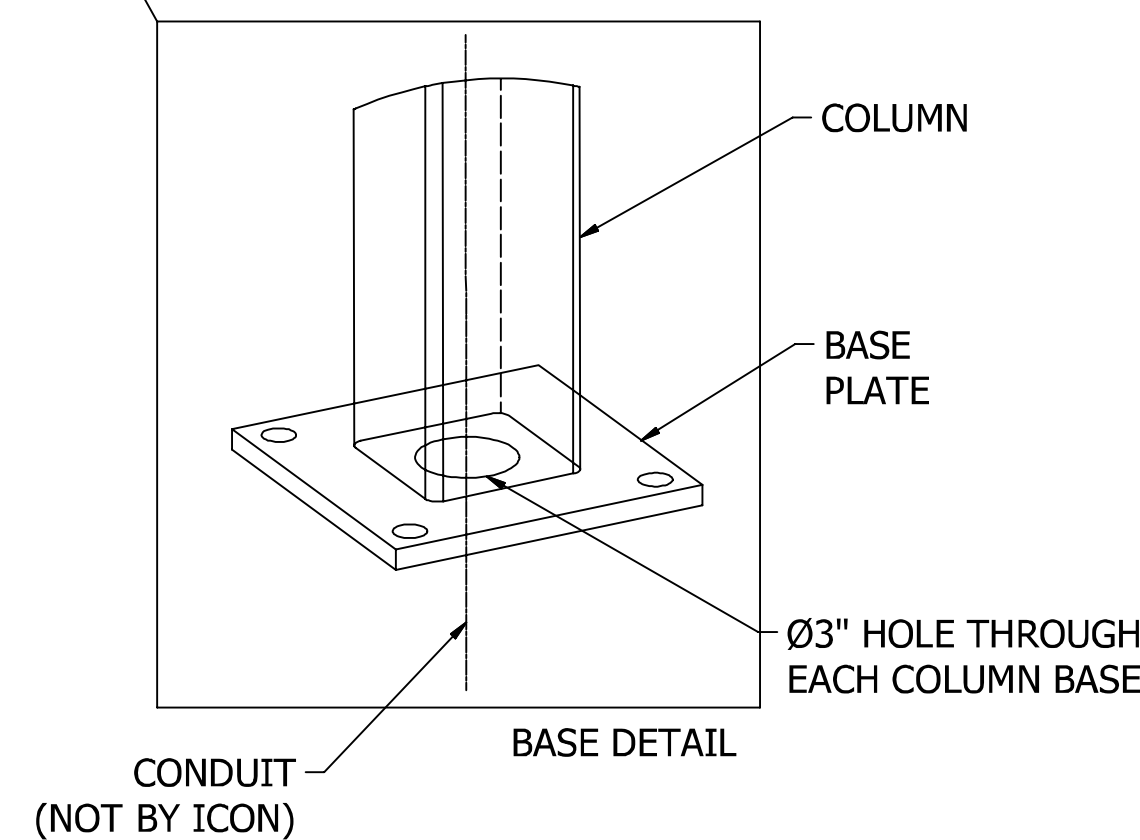
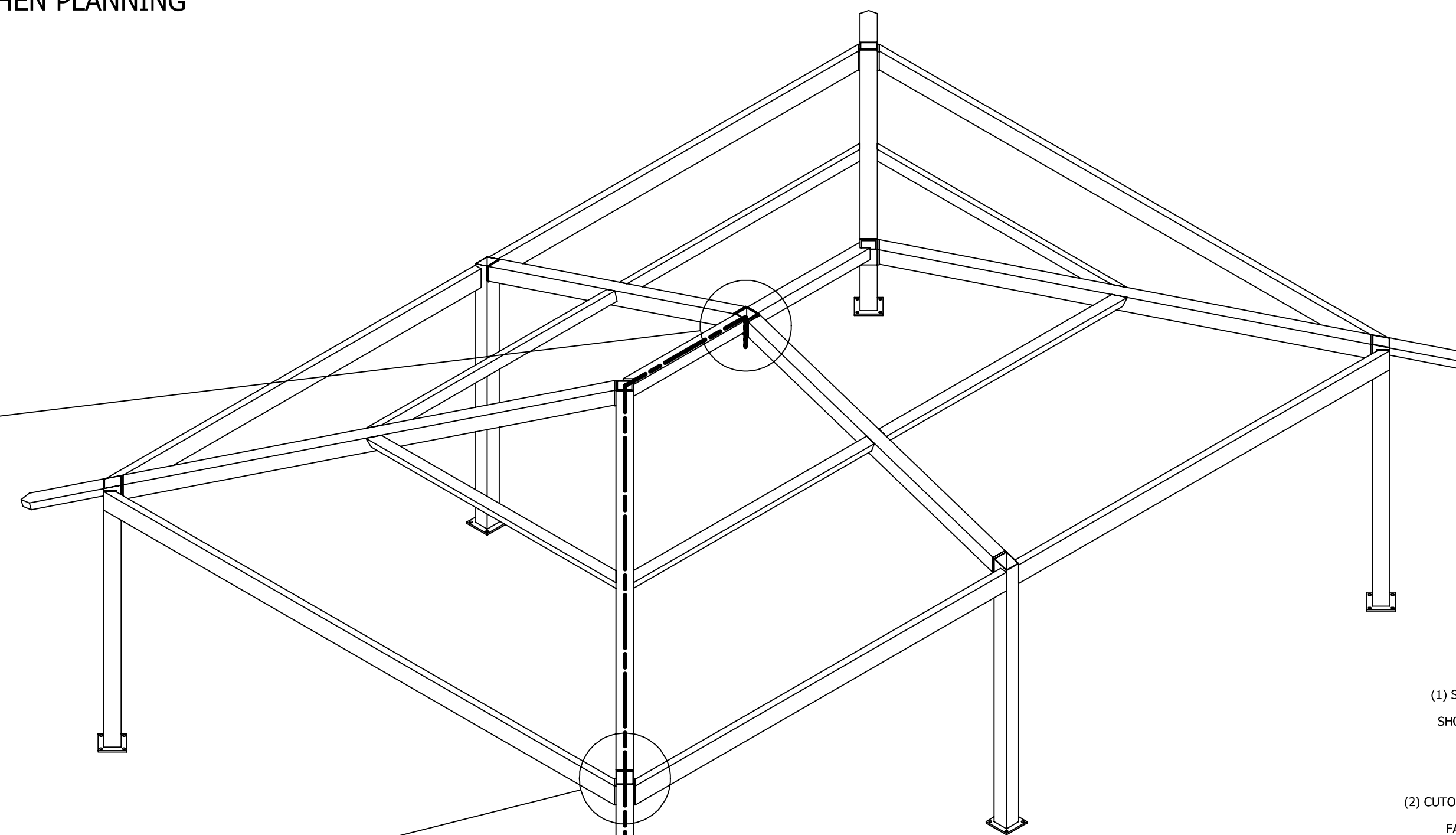
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



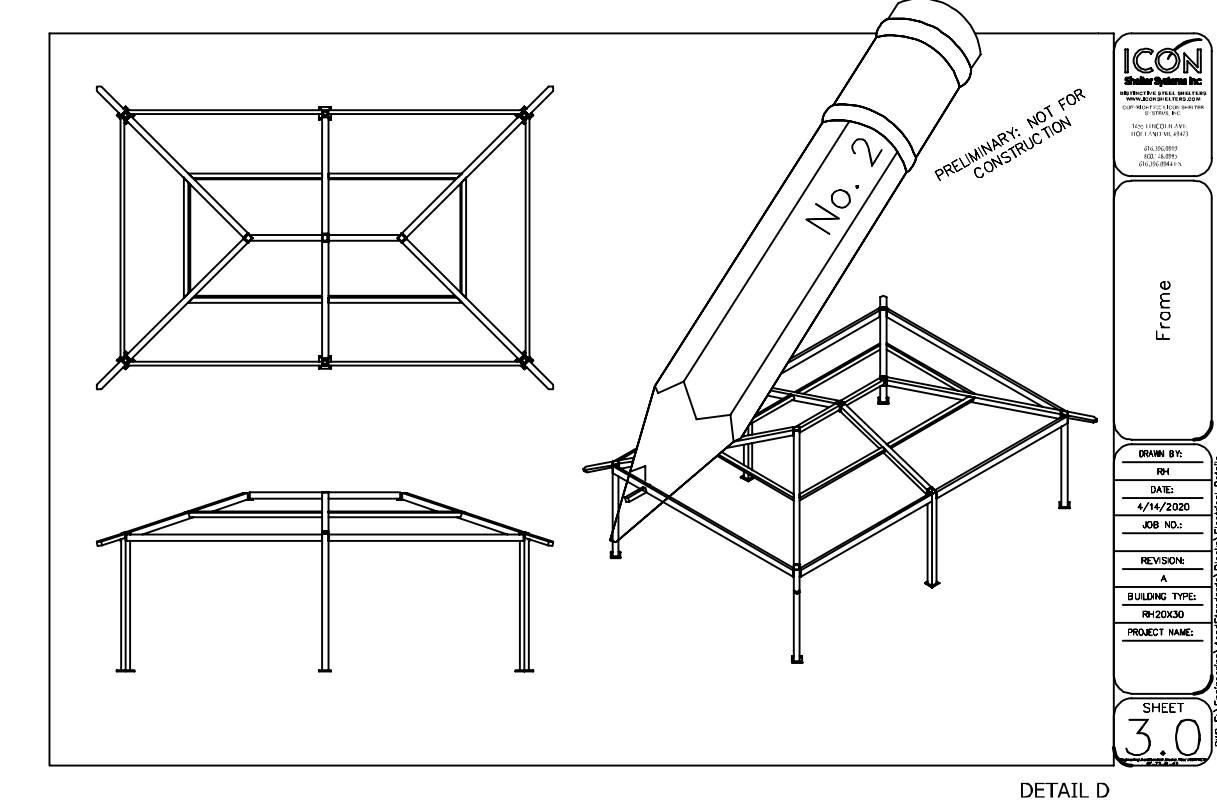
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 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.

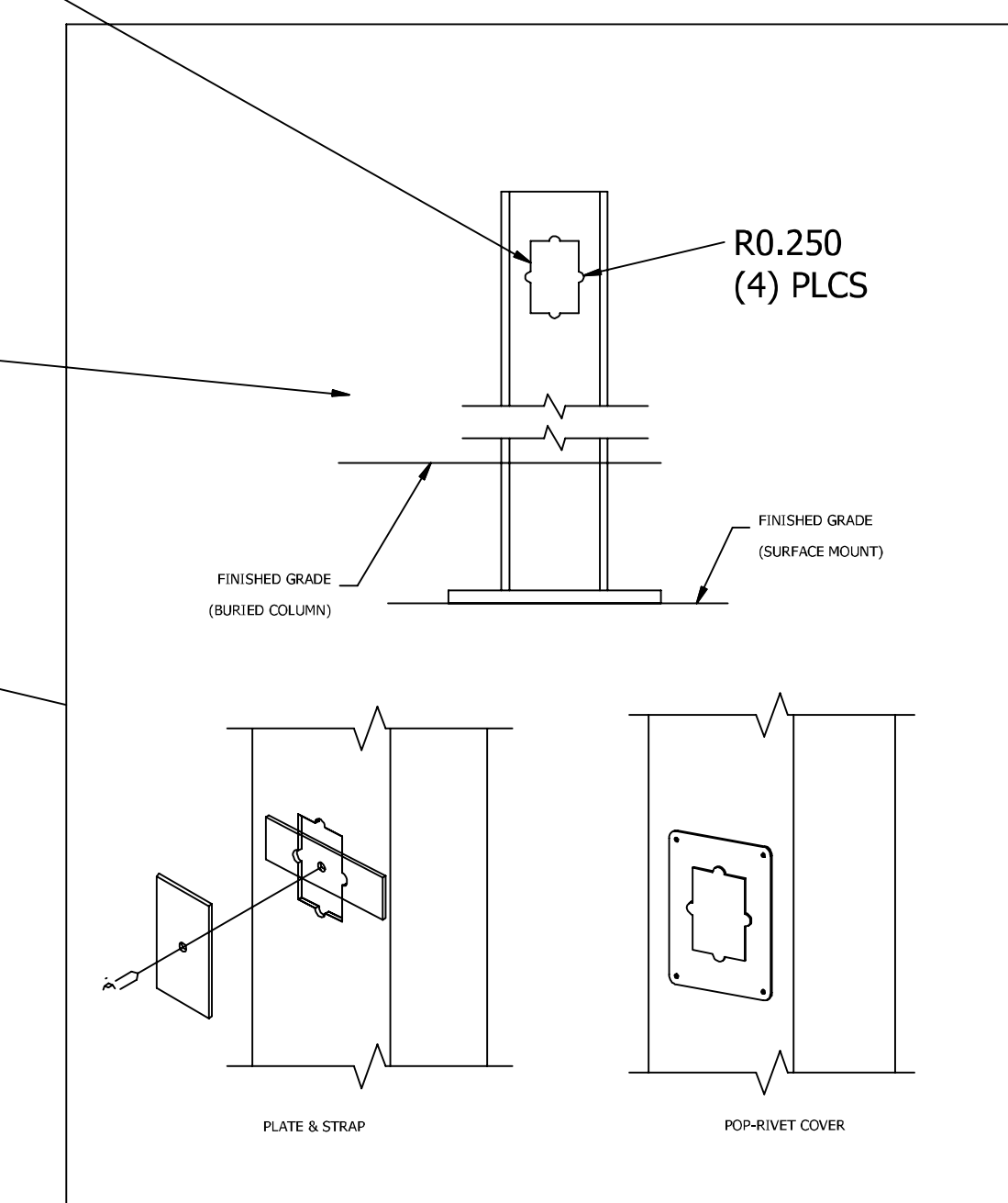


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



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

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

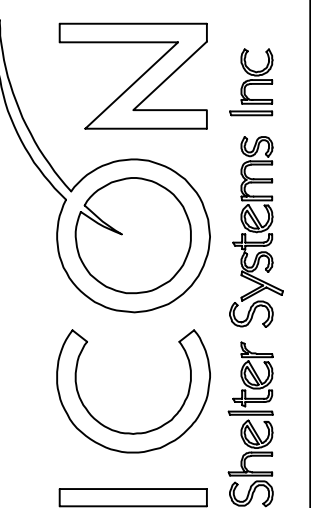
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DRAWN BY	ANGEL
DATE	4/2/2021
REV	
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REGISTERED PROFESSIONAL ENGINEER
ANGELO D. FORNARI
STATE OF CALIFORNIA
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DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
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ELECTRICAL ACCESS



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LS5.0