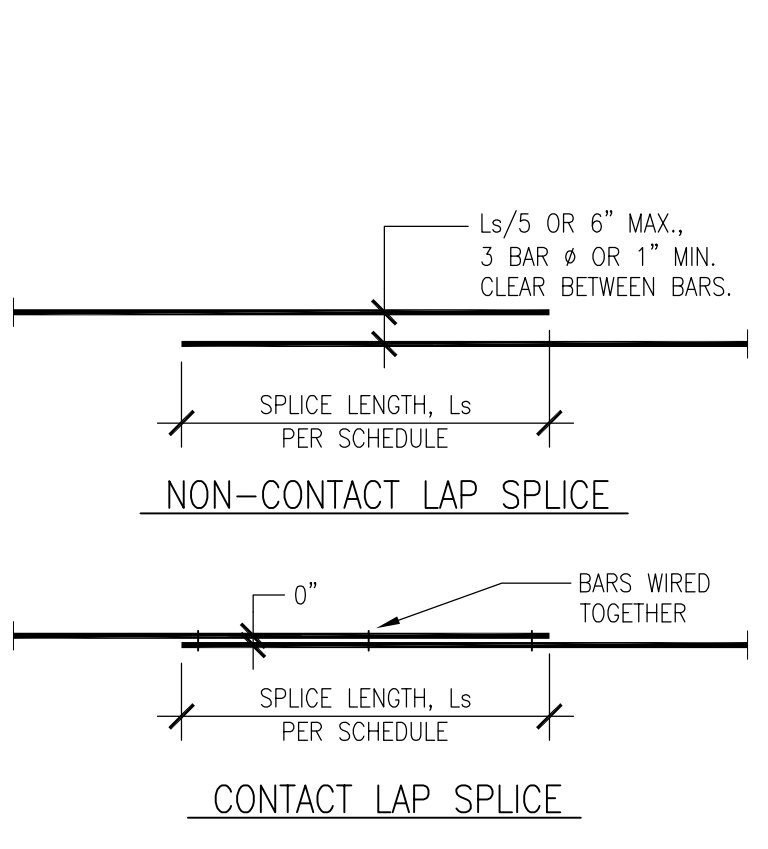


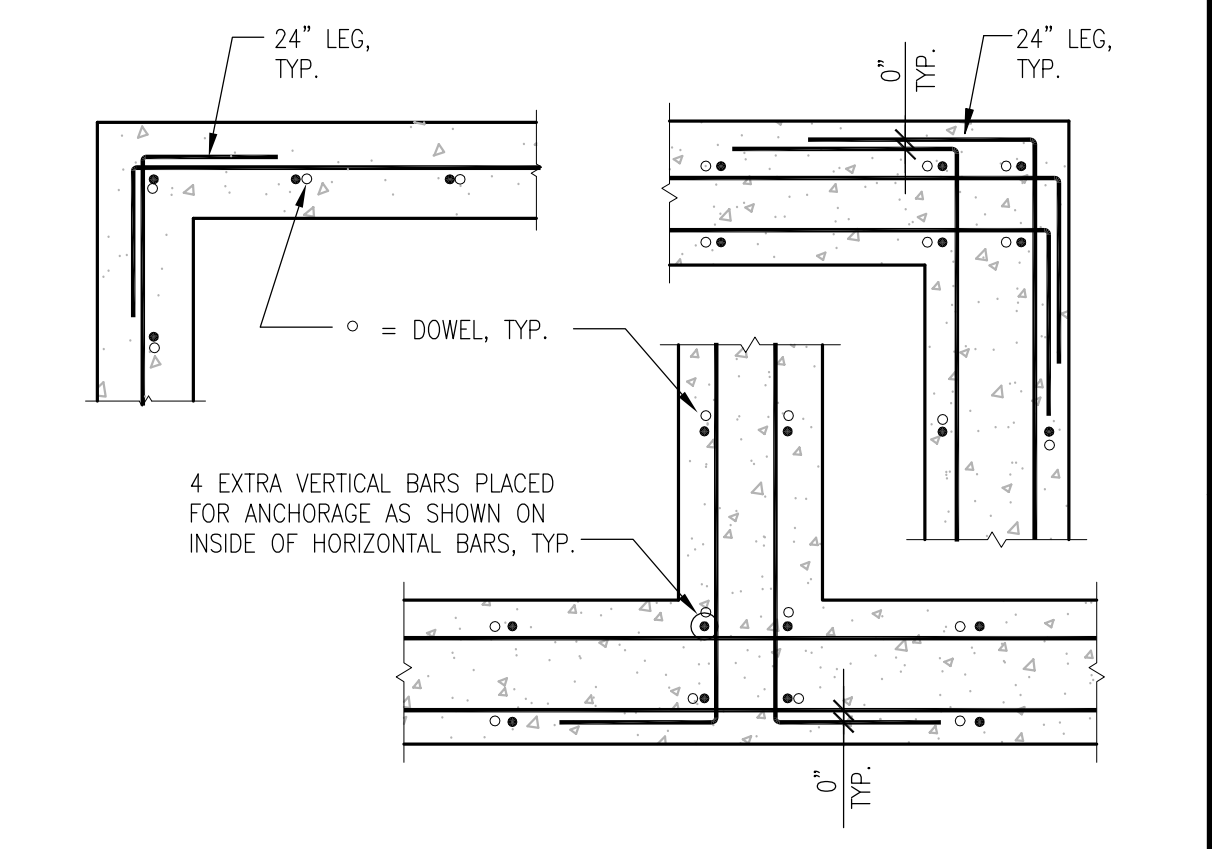
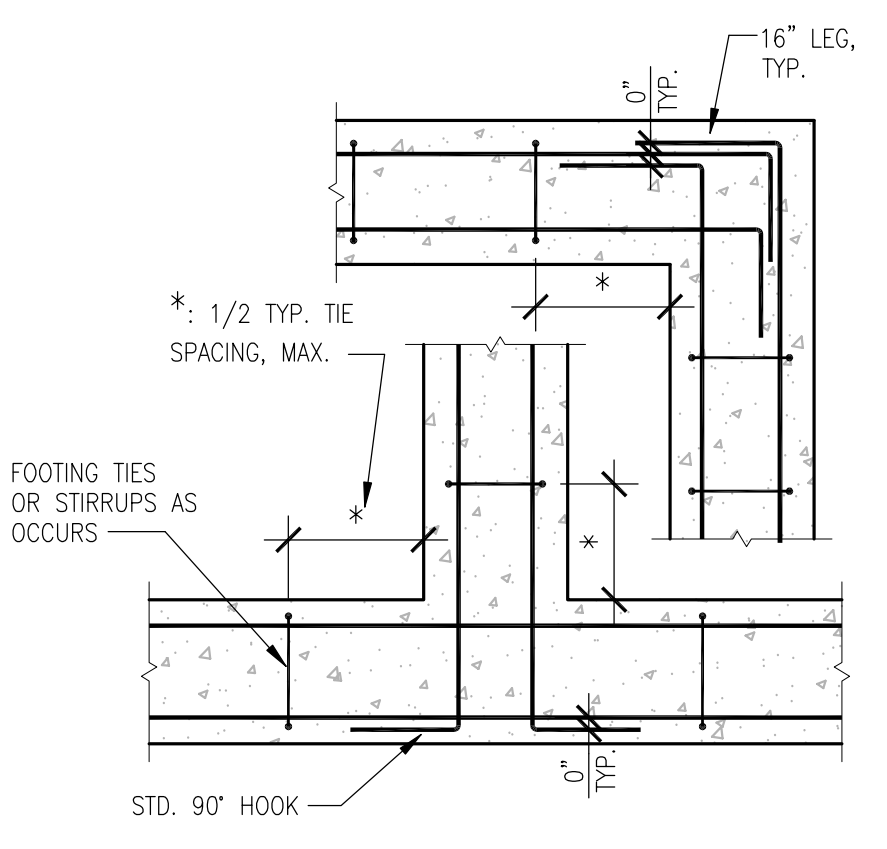
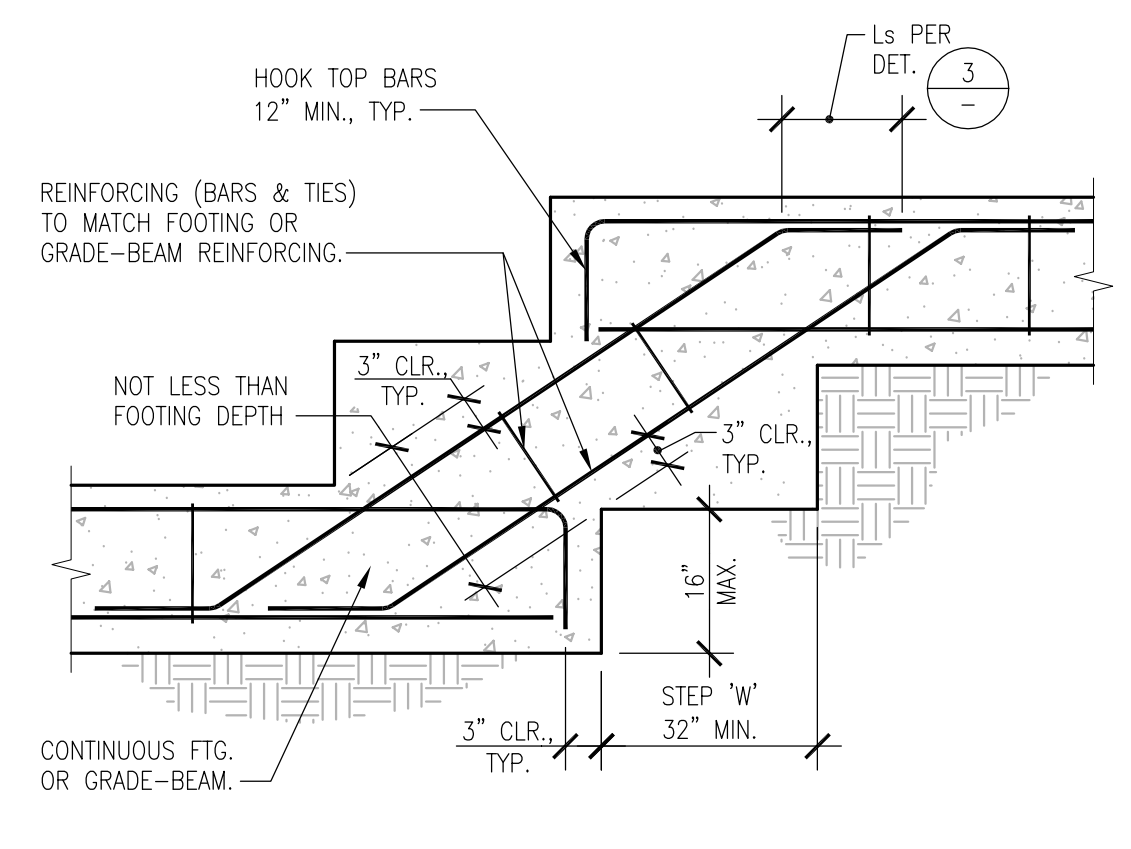
STANDARD HOOKS			
BAR SIZE	90° HOOK	180° HOOKS	90° HOOKS
#3	2-1/4"	2-1/2"	4-1/2"
#4	3"	2-1/2"	6"
#5	3-3/4"	2-1/2"	7-1/2"
#6	4-1/2"	3"	9"
#7	5-1/4"	3-1/2"	10-1/2"
#8	6"	4"	12"

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



REBAR LAP SPLICE LENGTHS (Ls)			
BAR SIZE	HARD ROCK (REG. WT.) CONCRETE CLASS B SPLICE TYP., U.N.O.	CONCRETE GROUTED TOP BARS (SEE NOTE 1)	GROUTED MASONRY (CMU)
#3	22"	28"	27"
#4	29"	37"	36"
#5	36"	47"	45"
#6	43"	56"	54"
#7	63"	81"	63"
#8	72"	93"	72"
#9	81"	105"	-
#10	90"	116"	-
#11	98"	128"	-

- NOTES:
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS, IN SAME POUR AS BARS (AS IN DEEP BEAM OR FOOTING POURS, ETC.).
 - STAGGER LAPS IN SUCCESSIVE PARALLEL BARS IN SLABS AND WALLS A DISTANCE EQUAL TO THE REQUIRED LAP SPLICE LENGTH, BUT NOT LESS THAN 24" (ALONG LENGTH OF BARS).
 - ALL LAP SPLICES SHALL BE CONTACT OR NON-CONTACT TYPE, AS SHOWN.
 - INCREASE SCHEDULED LAP LENGTHS BY 33% WHEN IN LIGHT WEIGHT CONCRETE.



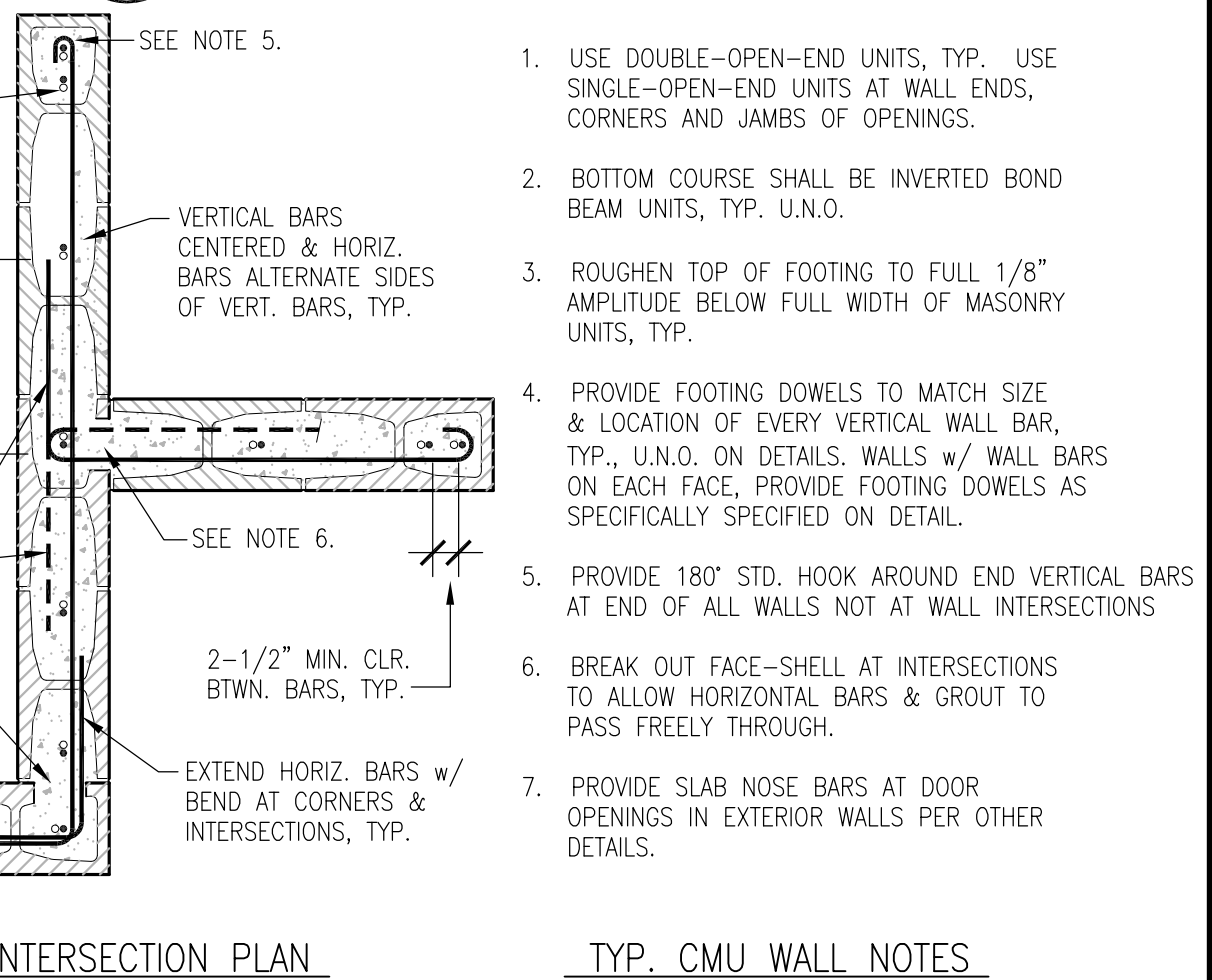
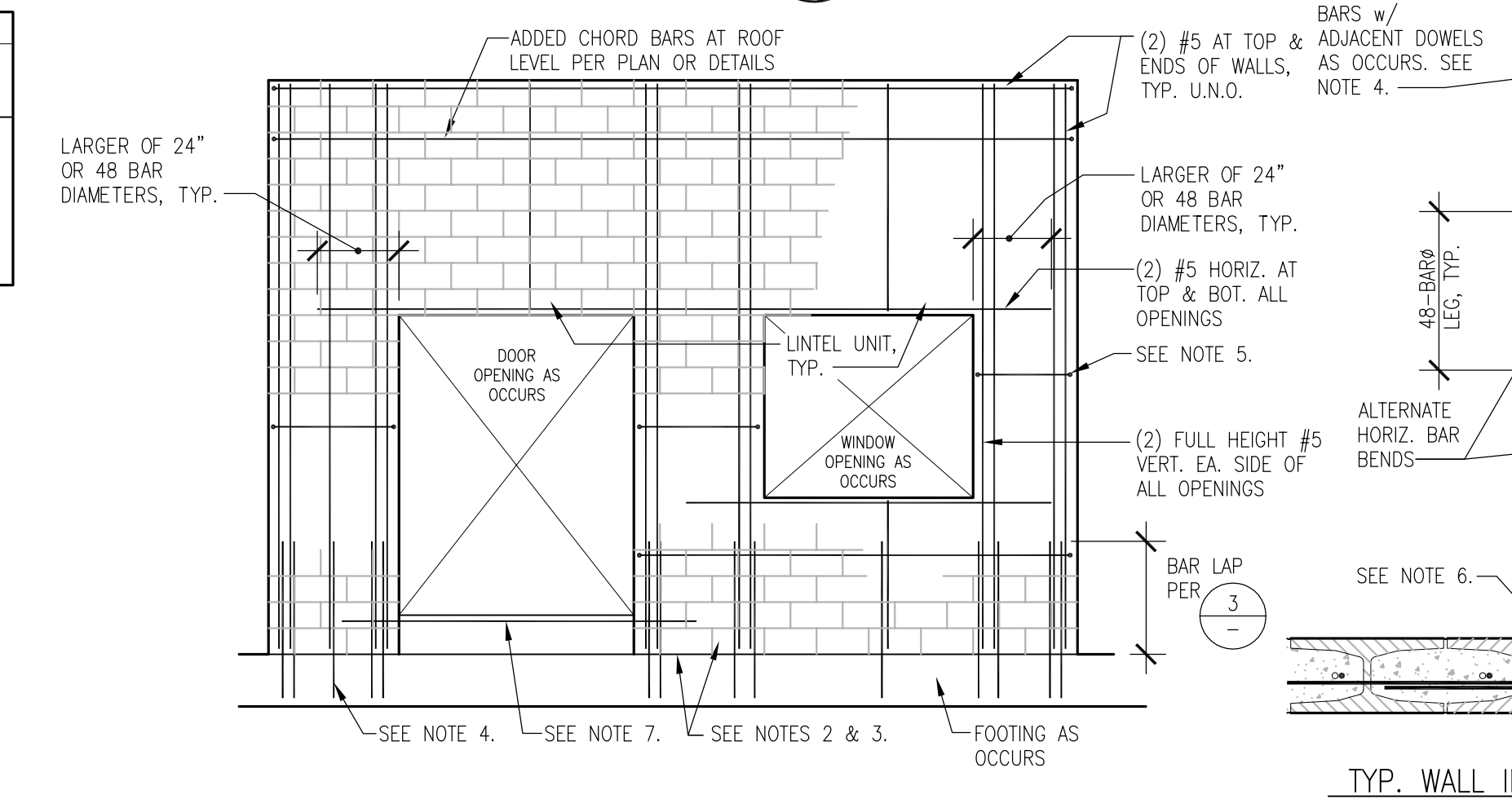
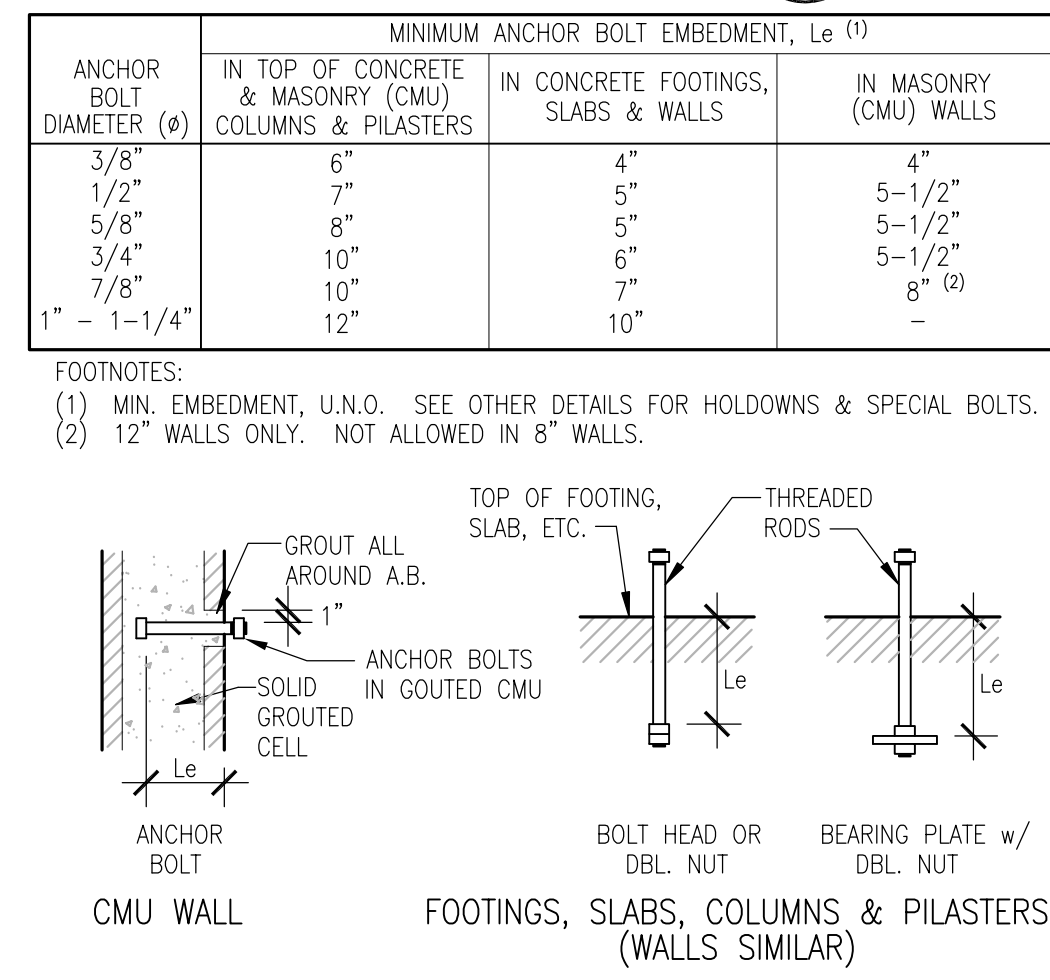
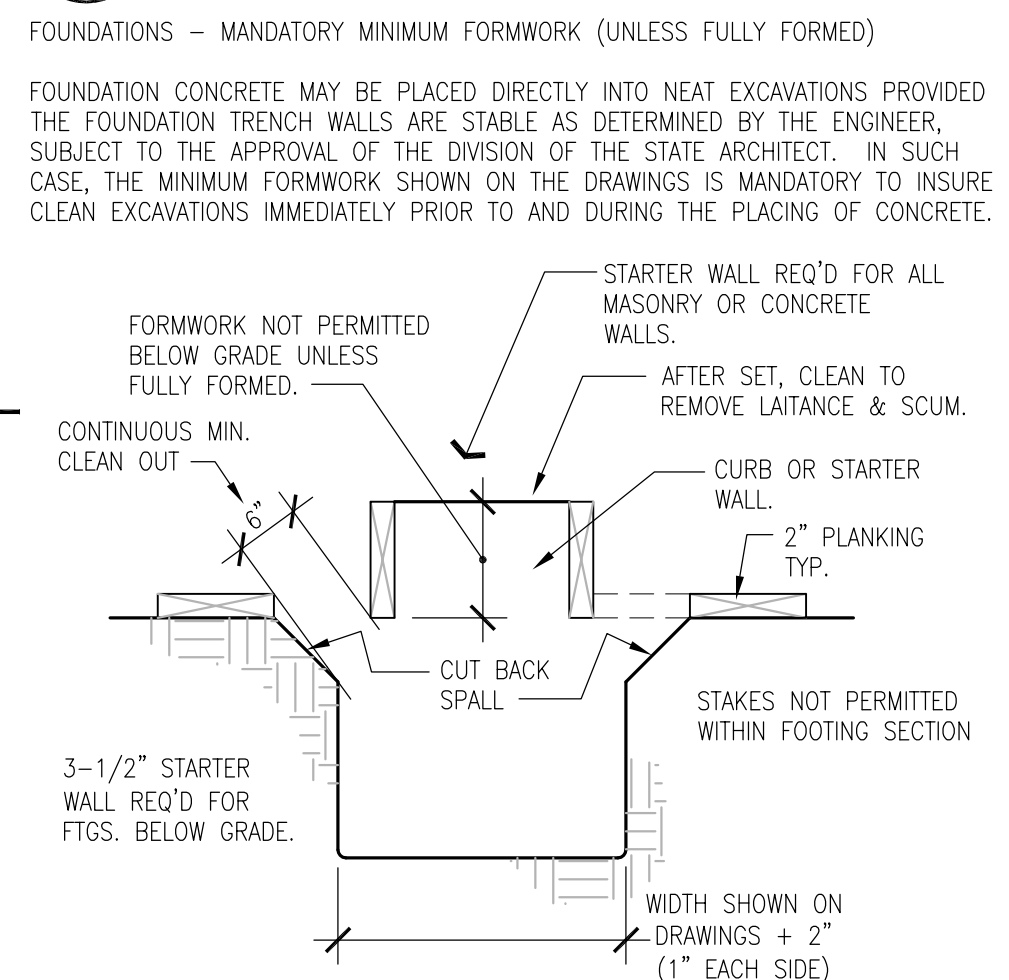
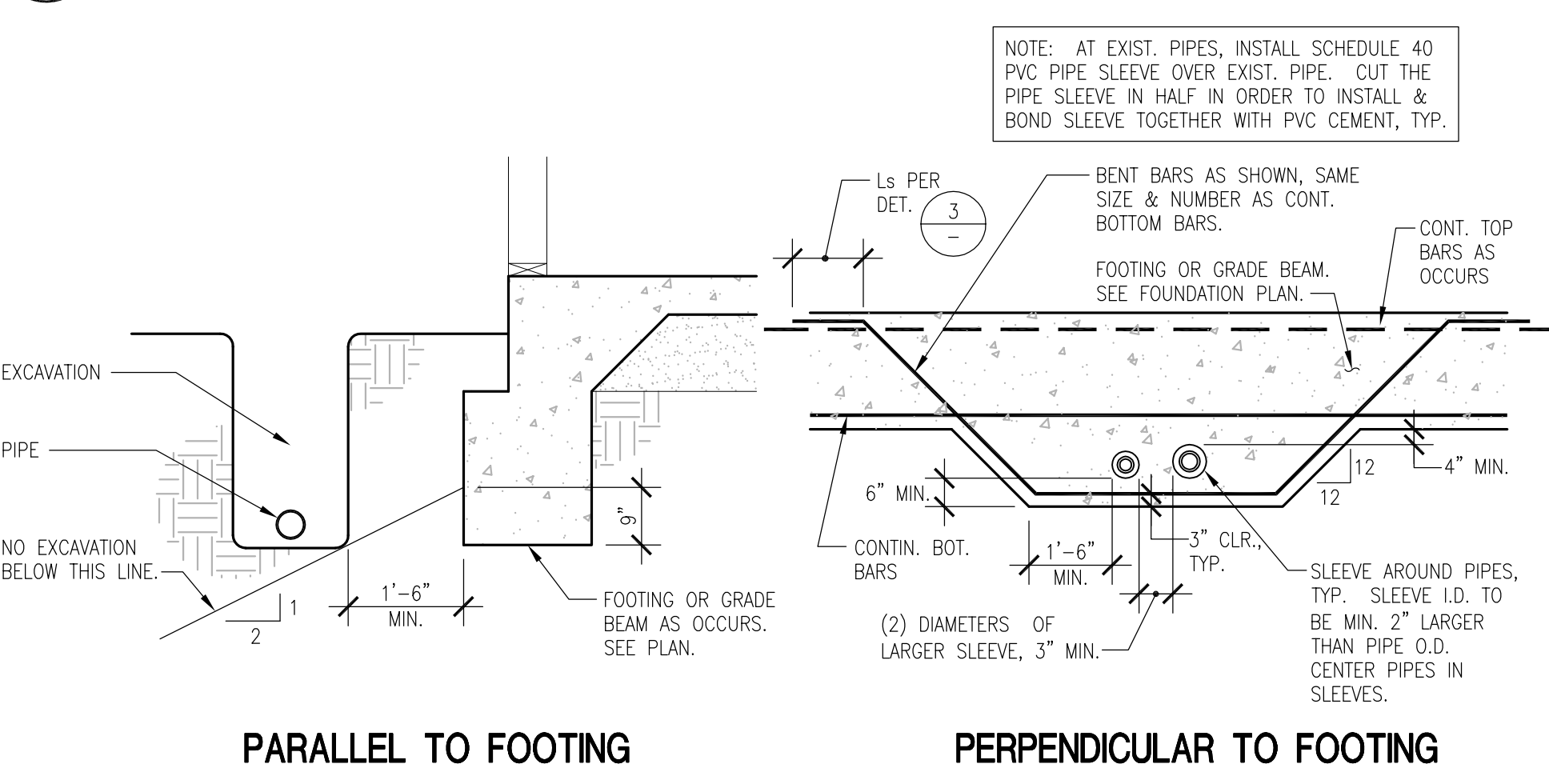
1 TYPICAL REBAR BENDS AND HOOKS

3 TYPICAL REBAR LAP SPLICES

5 TYPICAL FOOTING STEPS

6 TYP. FOOTING INTERSECTION REBAR

7 TYP. WALL INTERSECTION REBAR



8 TYP. PIPES AND EXCAVATIONS NEAR FOOTINGS

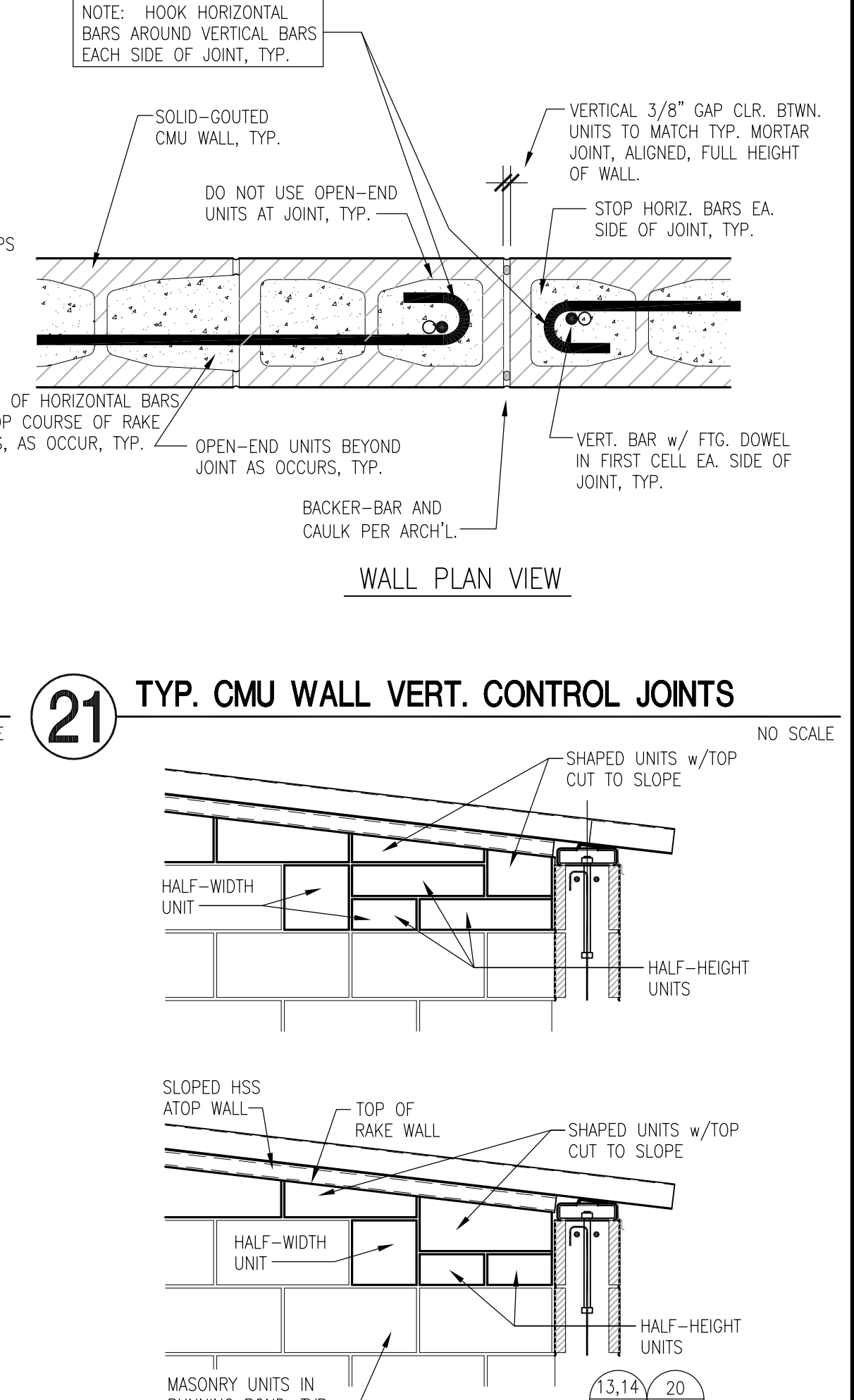
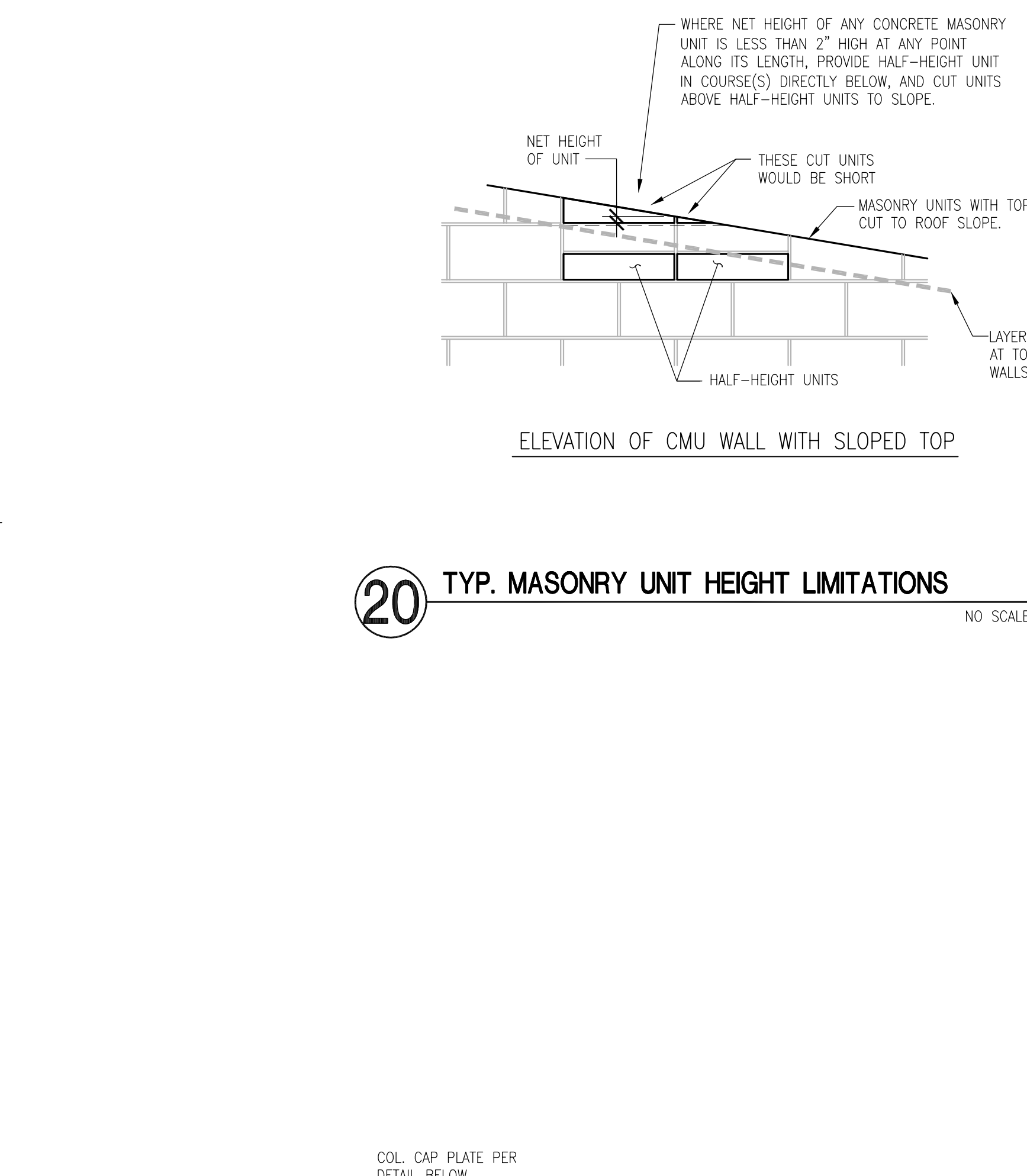
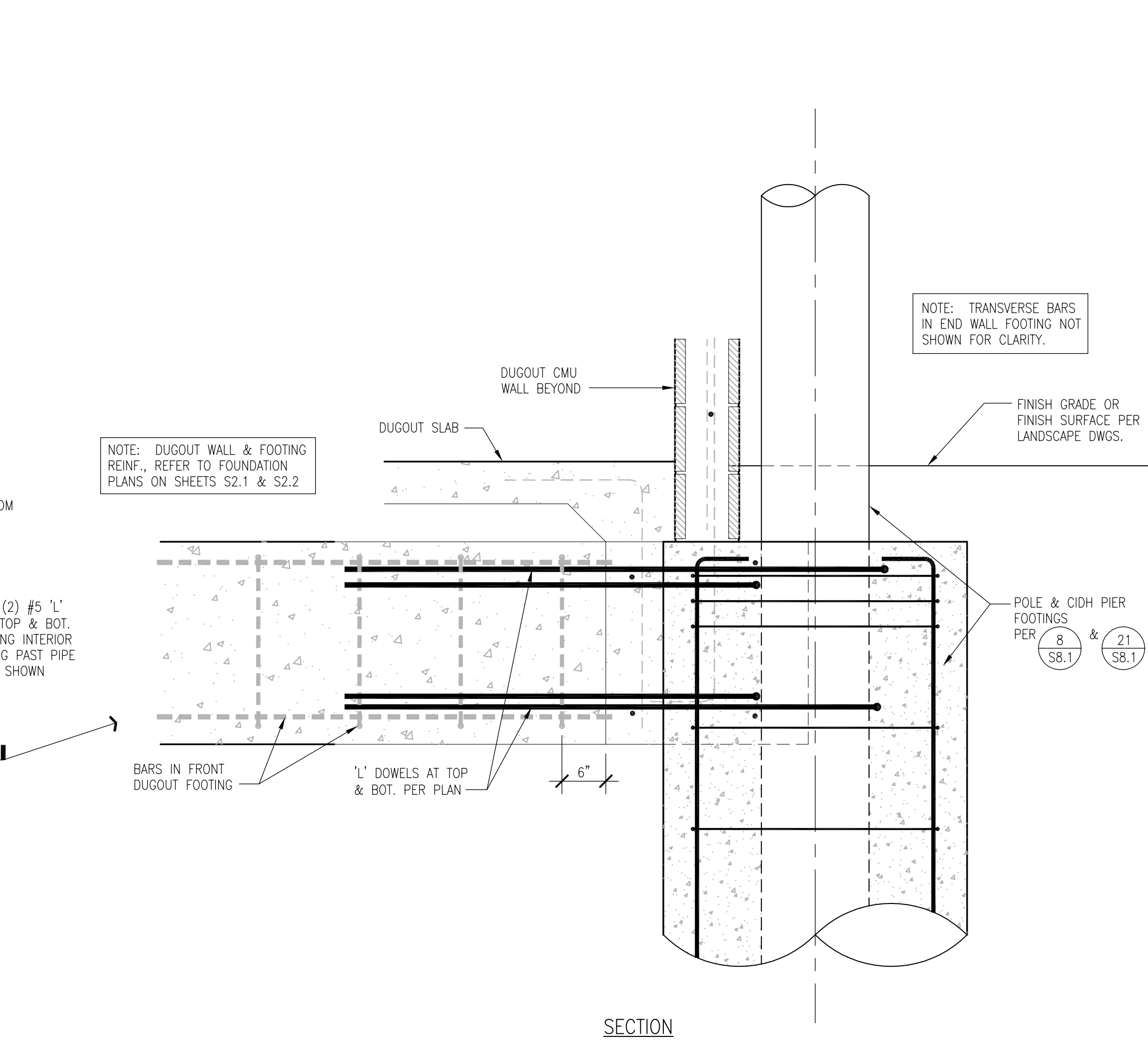
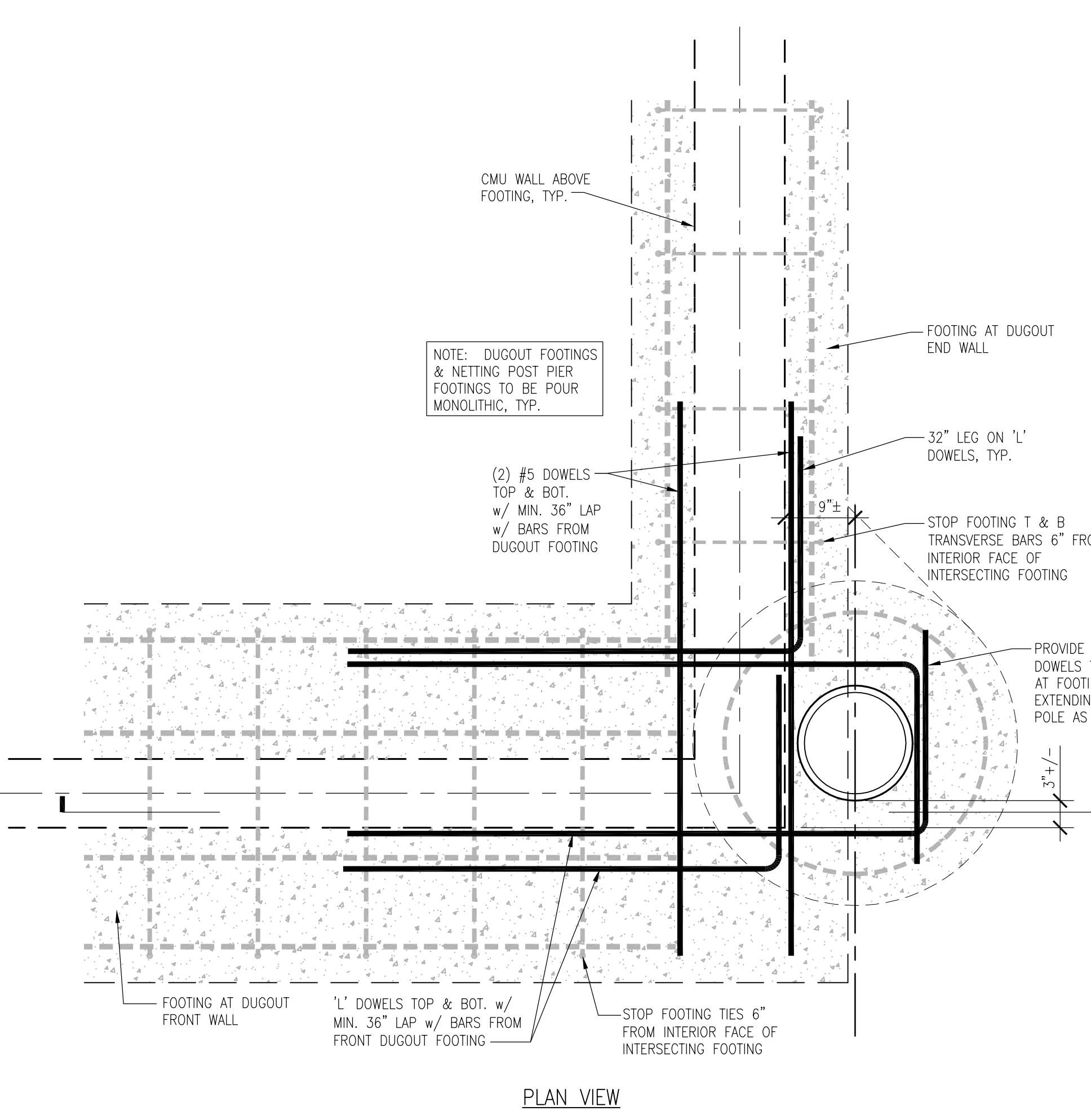
10 TYP. FOOTING TRENCHING & FORMING

11 TYP. A.B. EMBEDMENTS

12 TYP. MASONRY WALL

20 TYP. MASONRY UNIT HEIGHT LIMITATIONS

21 TYP. CMU WALL VERT. CONTROL JOINTS



22 NETTING POLE AT DUGOUT CORNERS

29 HSS BEAM CONNECTION AT HSS COLUMN

30 SHEARWALL FOOTING

25 WALL REINFORCING PLAN AT DUGOUT OPENING

VERDE DESIGN
 LANDSCAPE ARCHITECTURE
 CIVIL ENGINEERING
 SPORT PLANNING & DESIGN
 1843 Iron Point Rd. Suite 140
 Folsom, CA 95630
 tel: 916.415.6554
 fax: 916.415.6525
 www.VerdeDesign.com

STAMP

 CONSULTANT

AKH
 Structural Engineers, Inc.
 275 Tennant Avenue, Ste. 204 ph: 408.978.1970
 Morgan Hill, CA 95037 AKHSE.com Job: M23-047

KEY MAP

SHEET TITLE
DUGOUT STRUCTURAL DETAILS

PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

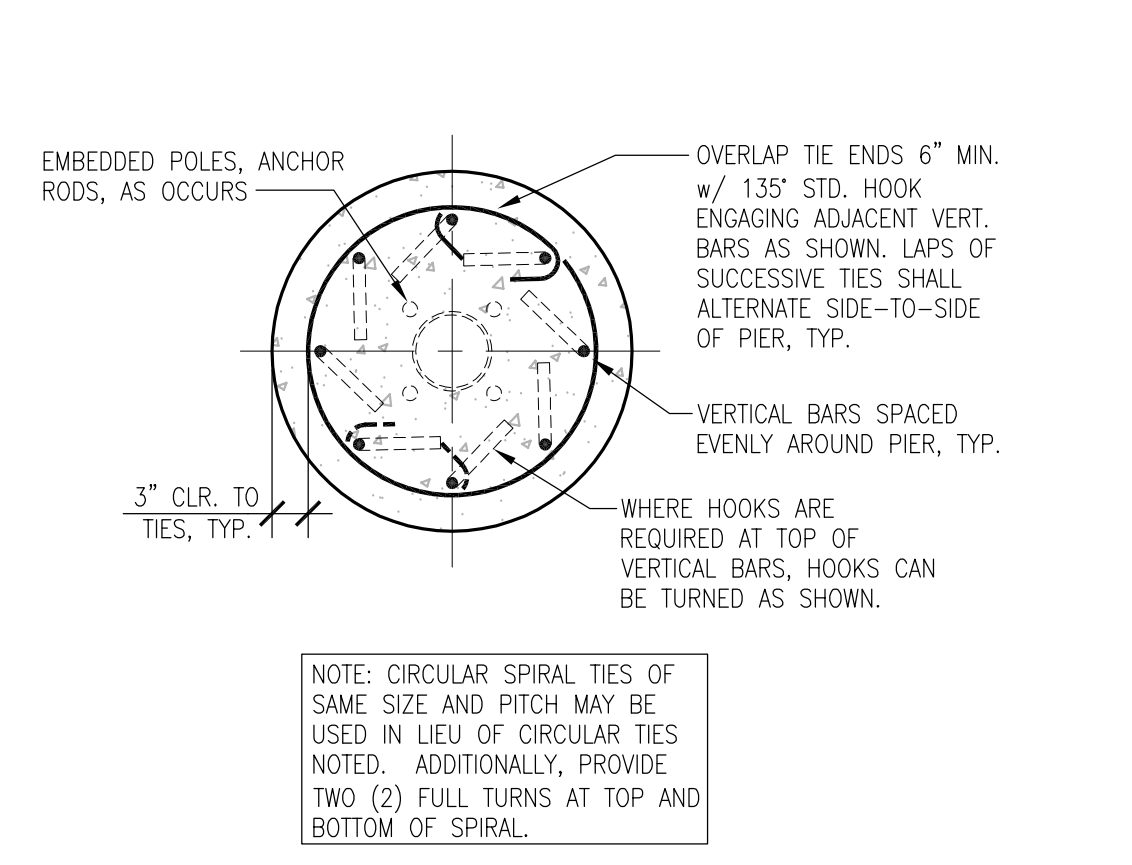
PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

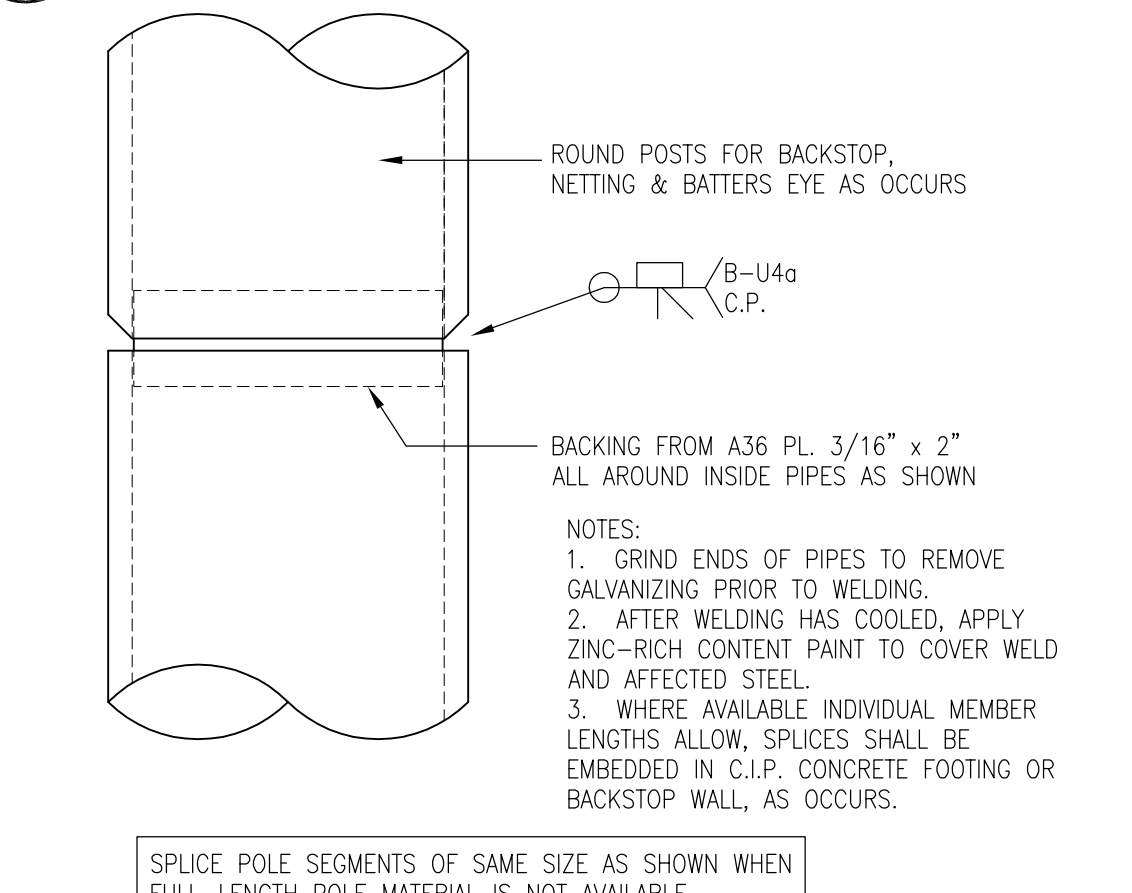
NO.	REVISIONS	DATE

DRAWN BY: JJQ CHECKED BY: TDH
 DATE ISSUED: 03/18/2024 SCALE: AS NOTED
 PROJ. NO.: 2309900
 SHEET NO.: **S2.2**

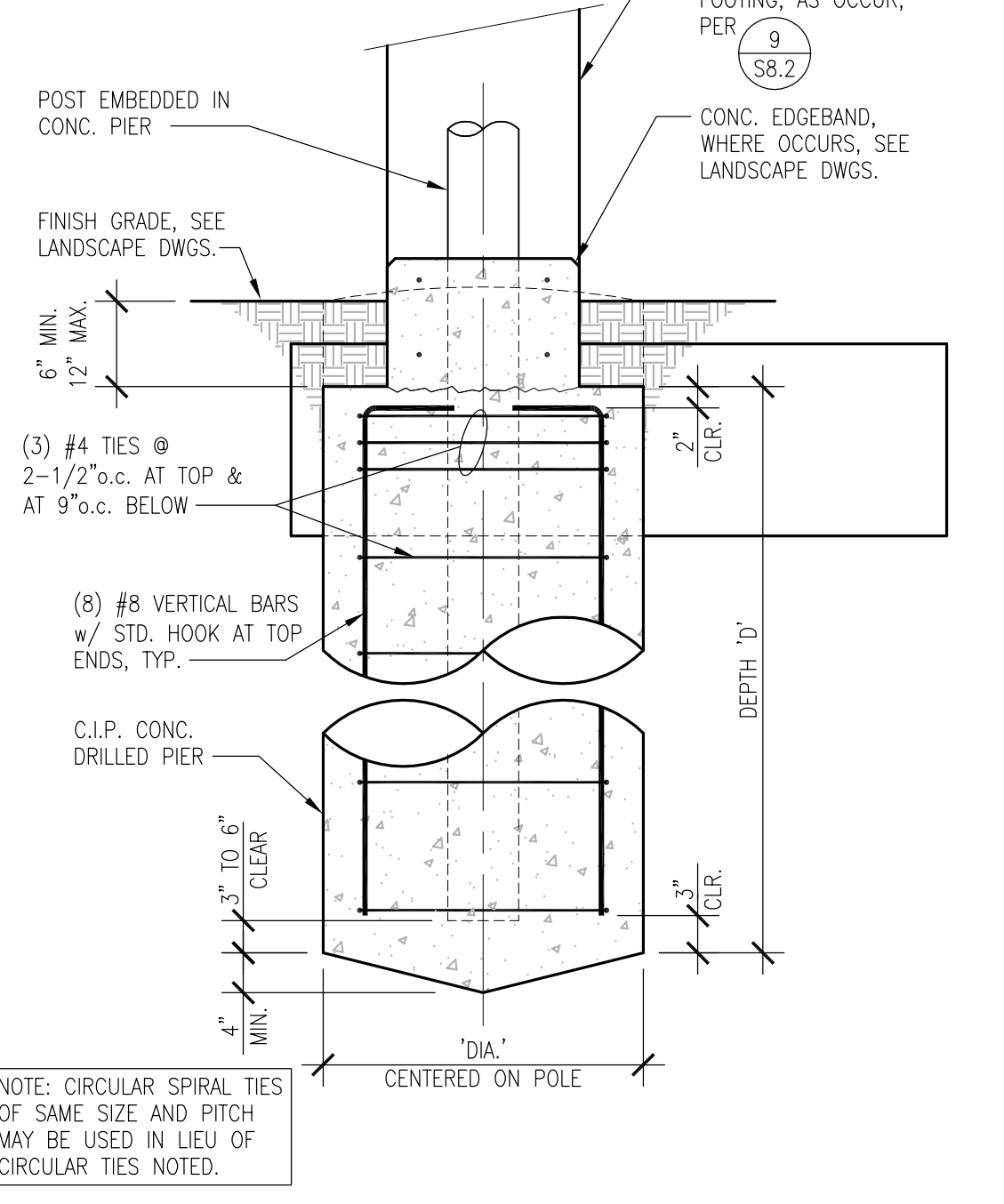
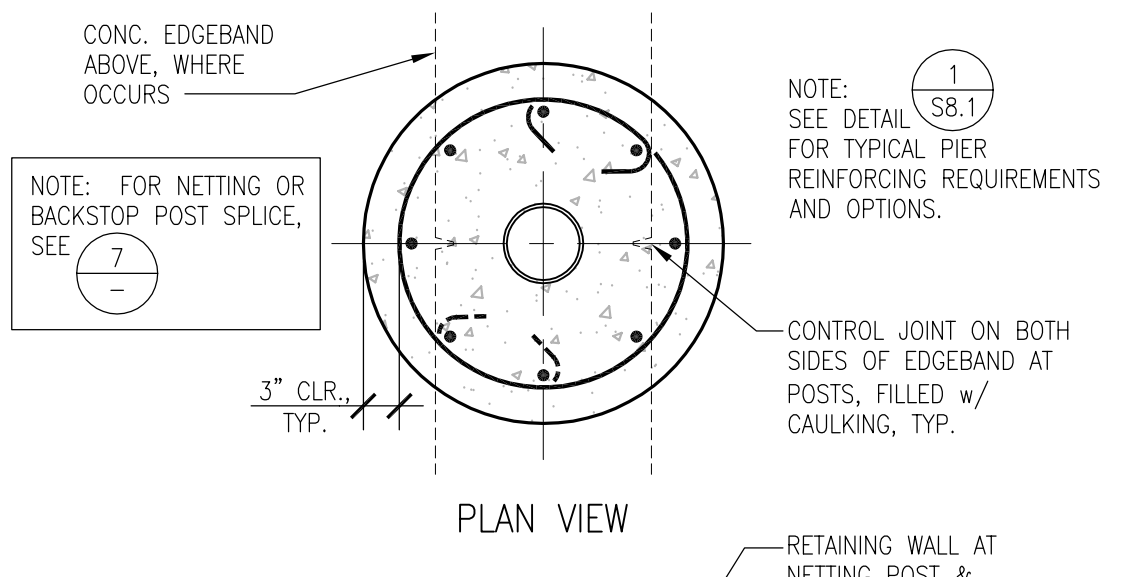
ALL DESIGN, DIMENSIONS, AND REVISIONS ARE THE PROPERTY OF VERDE DESIGN, INC. AND ARE NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. VERDE DESIGN, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONS ARISING FROM THE USE OF THIS DRAWING.



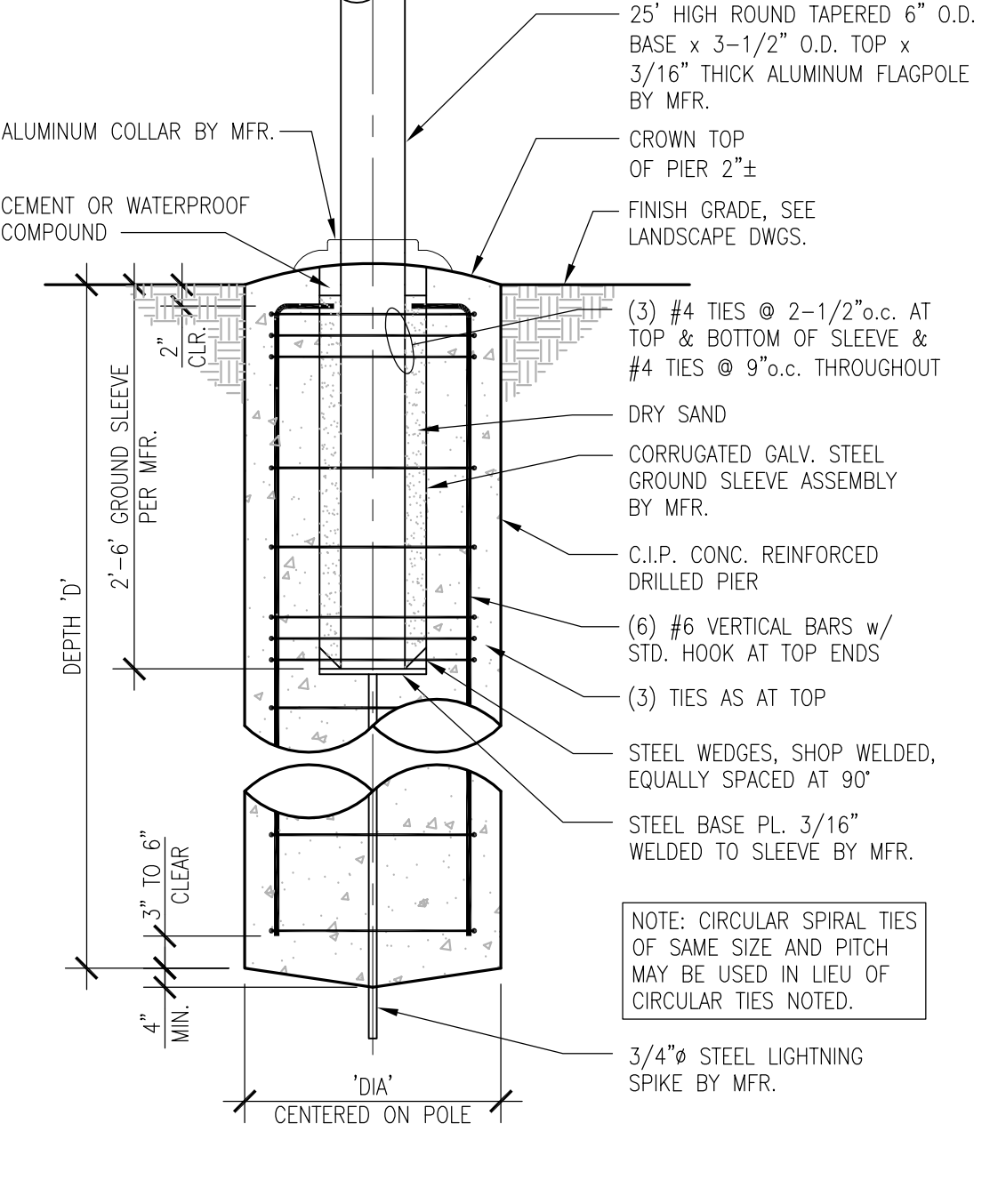
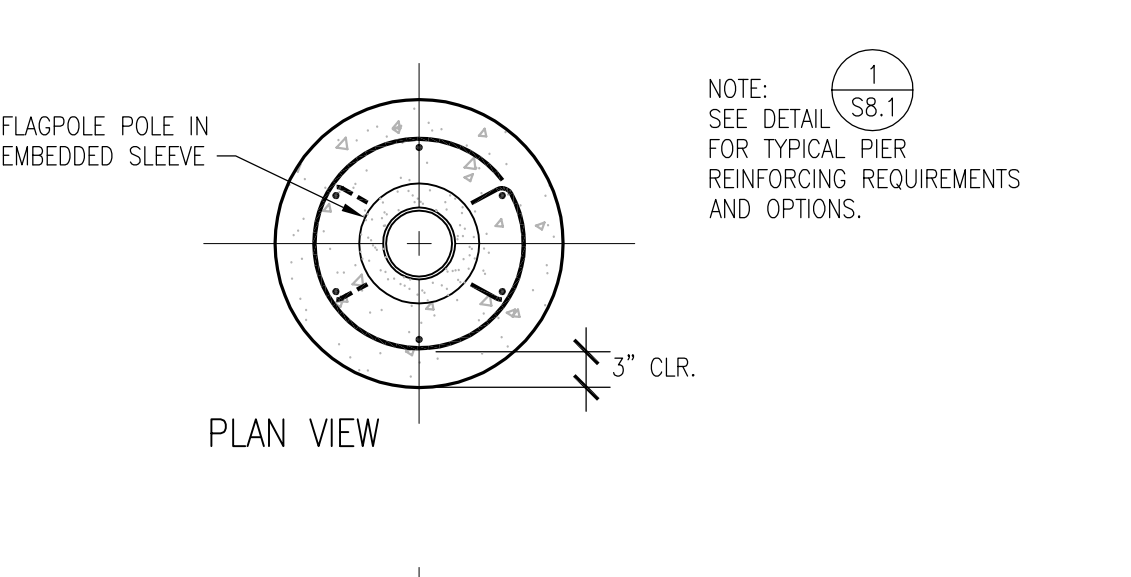
1 TYPICAL PIER REINFORCING REQUIREMENTS
1/4"=1'-0"



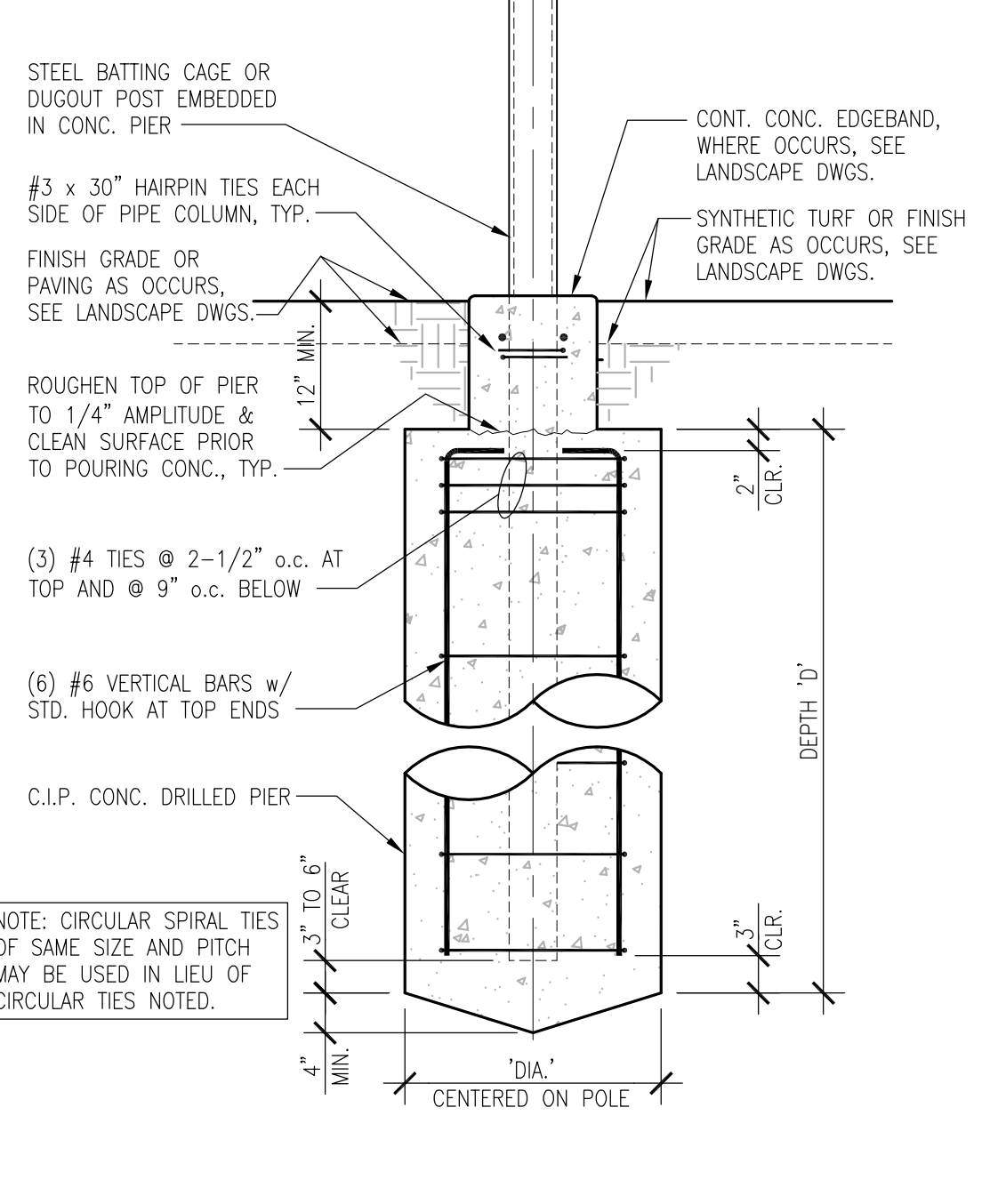
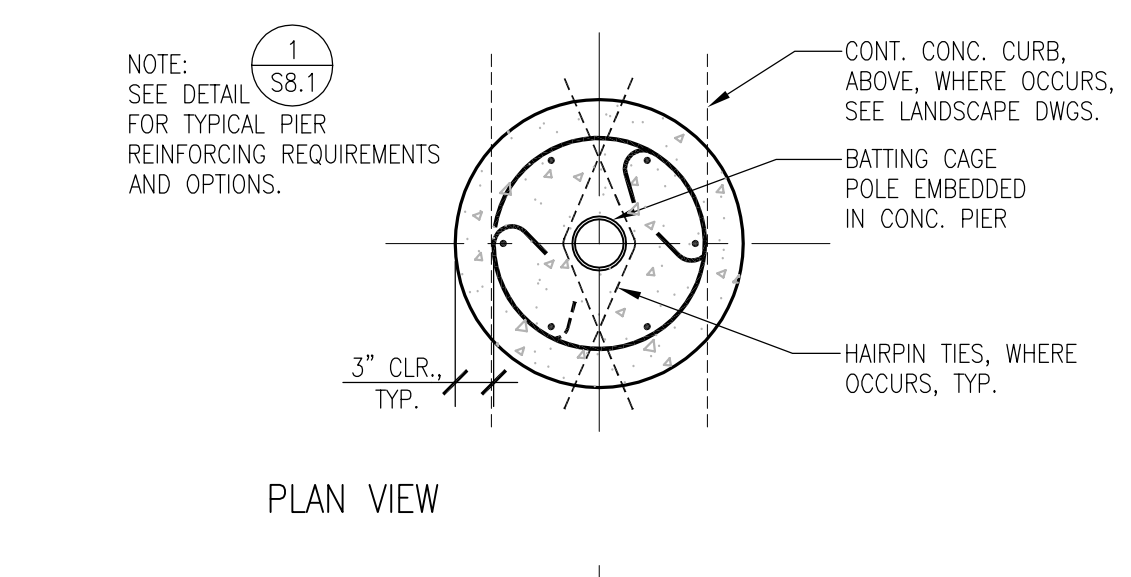
7 TYPICAL POLE/POST SPLICE
NO SCALE



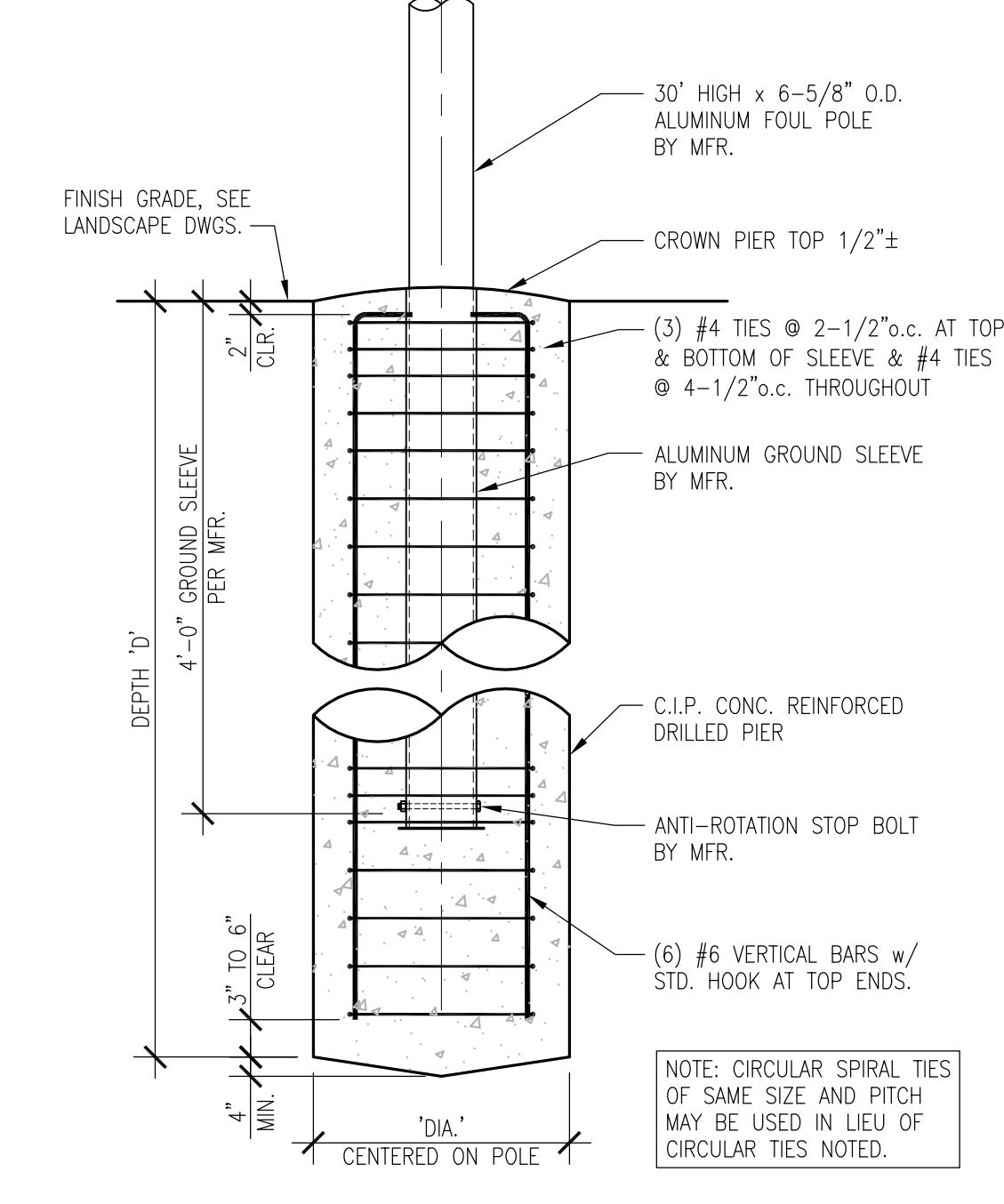
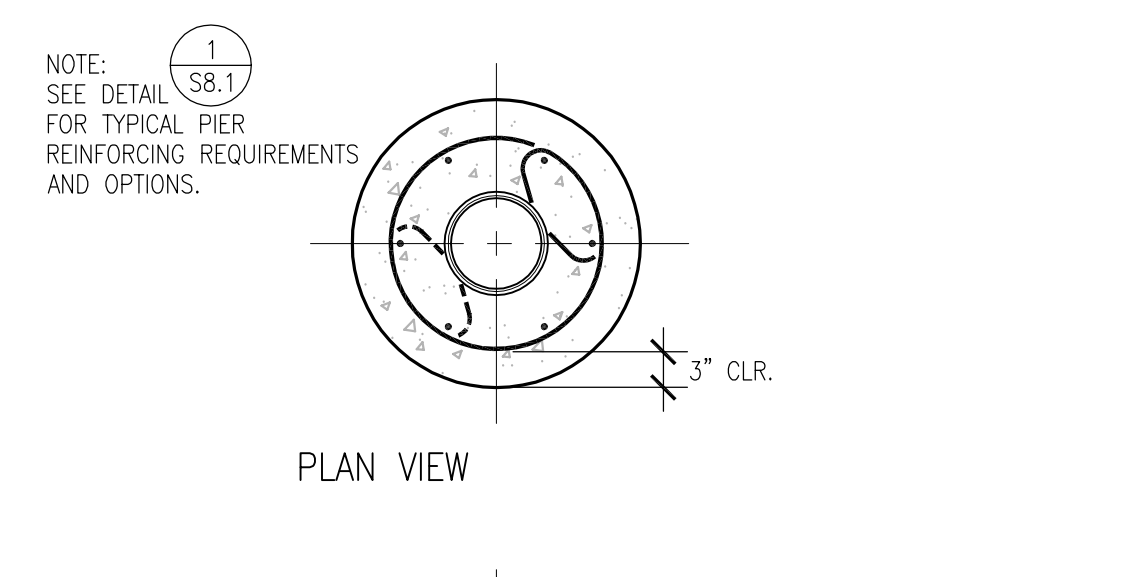
8 BACKSTOP & NETTING FOOTING
1/4"=1'-0"



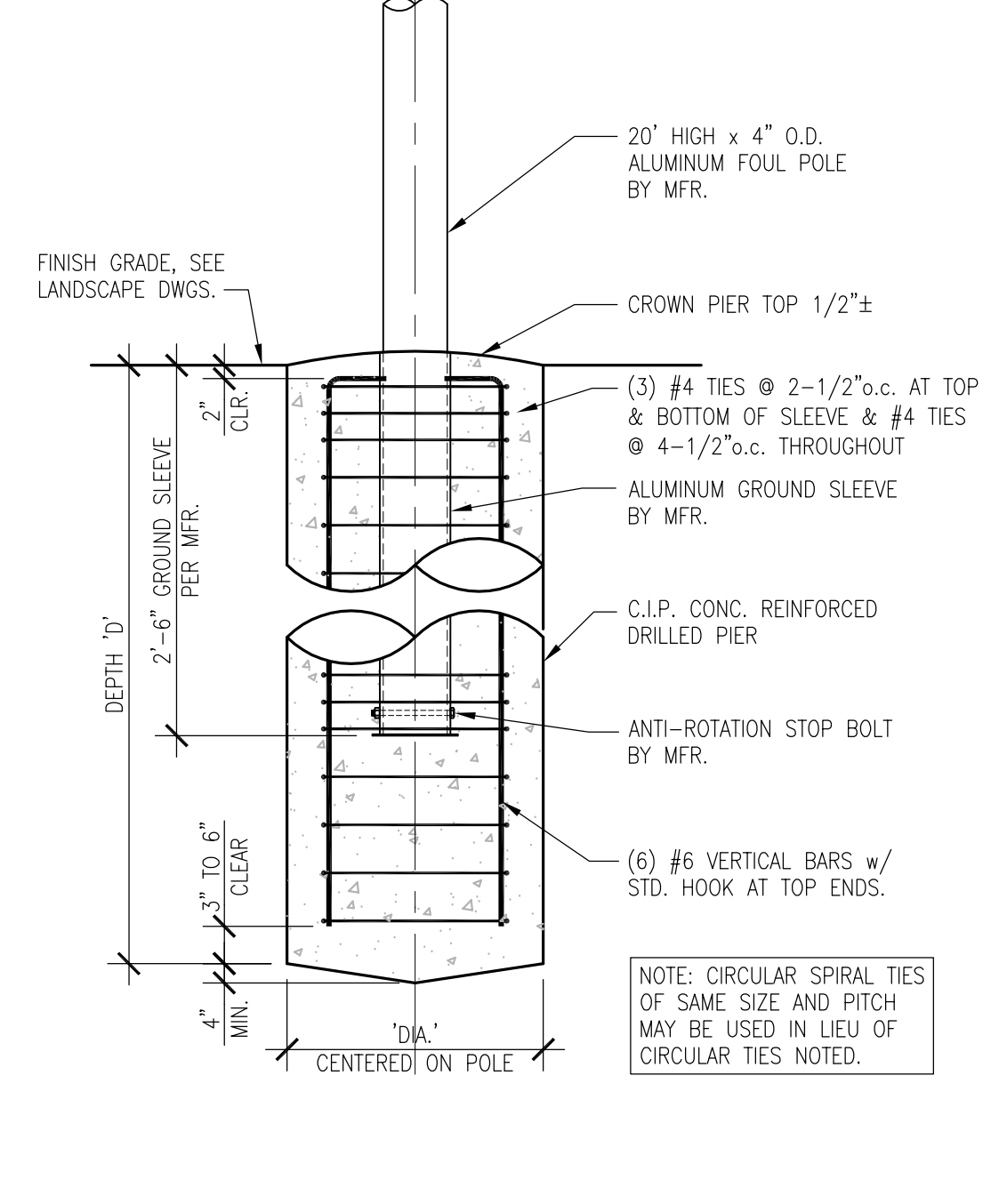
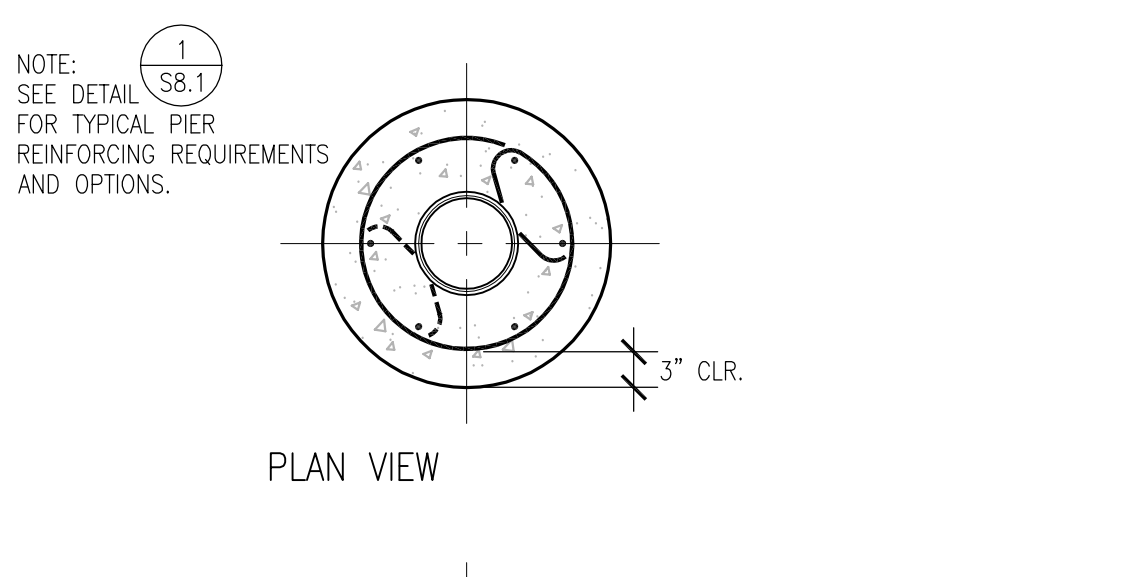
9 FLAG POLE FOOTING
1/4"=1'-0"



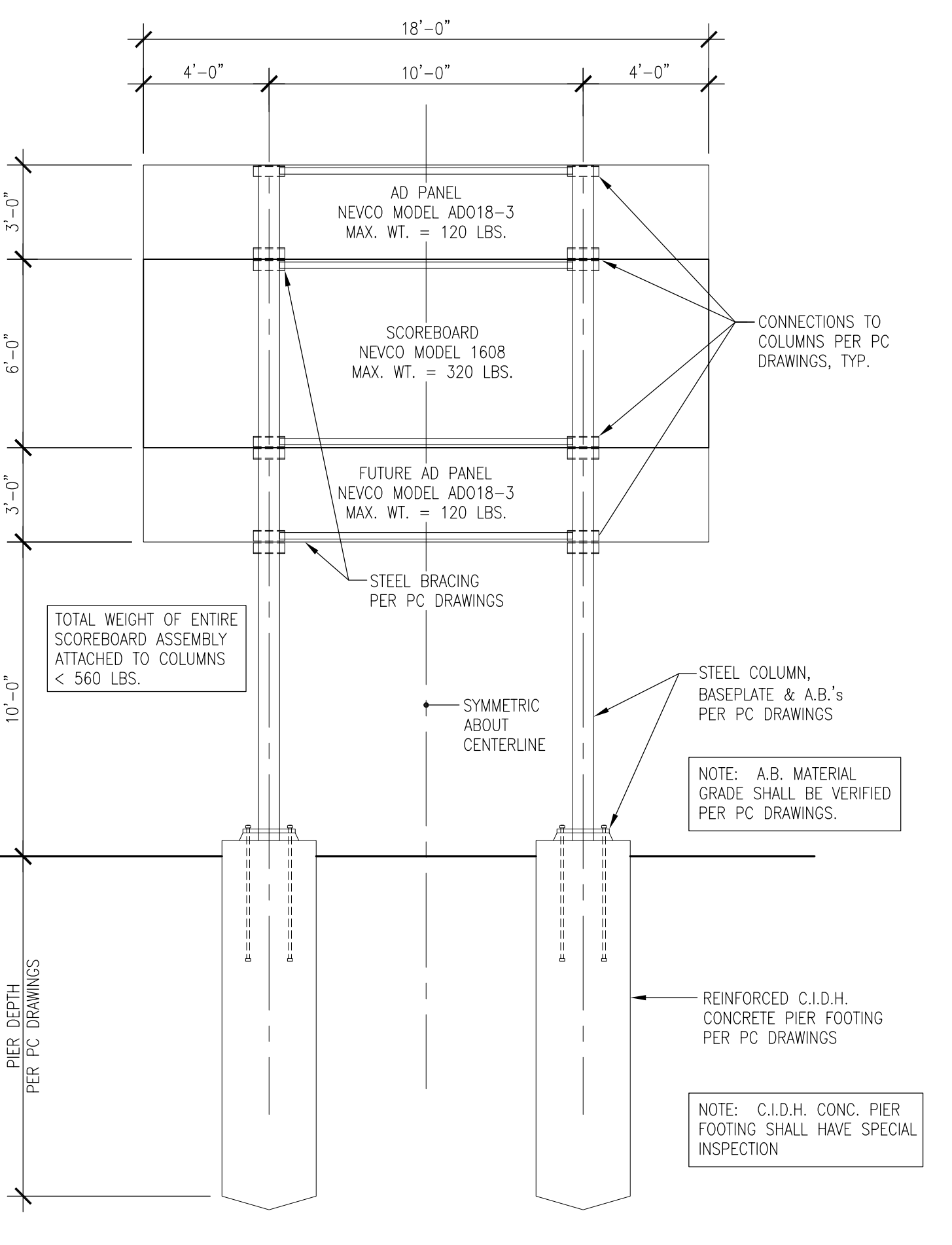
10 BATTING CAGE FOOTING
1/4"=1'-0"



11 FOUL POLE FOOTING
1/4"=1'-0"



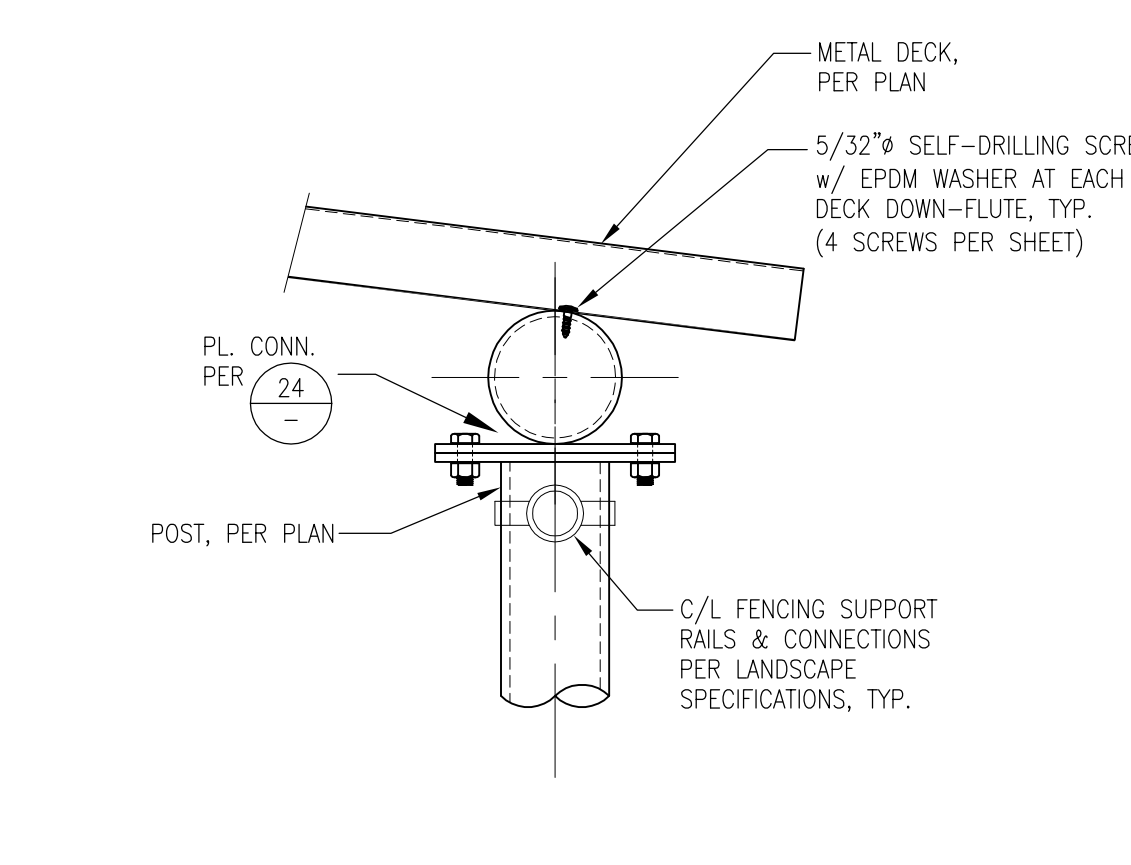
12 FOUL POLE FOOTING
1/4"=1'-0"



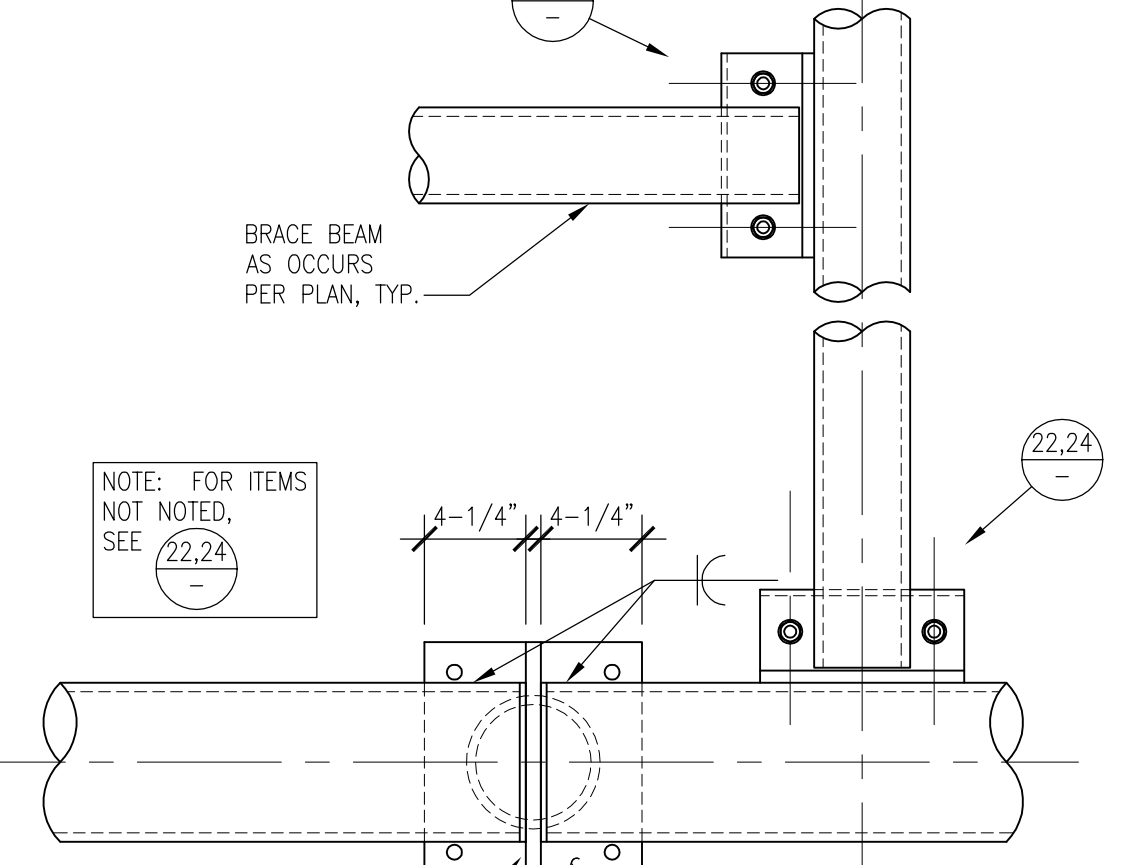
19 SCHEMATIC SCOREBOARD ELEVATION
DESIGN PER NEVCO PC DRAWINGS

POLE TYPE	PIER DIAMETER, "DIA"	MIN. PIER DEPTH, "D"	PIER REINFORCING	COMMENTS
10 TO 12' HIGH VISITOR DUGOUT (METAL ROOF)	18"	5'-0"	SEE DETAIL 10	5" STD. PIPE POSTS (SCHED. 40, 5.663" O.D. x 0.258" WALL, ASTM A53, GR. B, Fy=35 ksi).
14' TO 16' HIGH BATTING CAGE (METAL ROOF)	18"	6'-0"	SEE DETAIL 10	6" STD. PIPE POSTS (SCHED. 40, 6.625" O.D. x 0.280" WALL, ASTM A53, GR. B, Fy=35 ksi).
20' HIGH FOUL POLE	18"	6'-0"	SEE DETAIL 12	ROUND ALUMINUM POLE AND GROUND SLEEVE BY OTHERS. HEIGHT FROM GRADE TO BOTTOM OF WING SCREEN = 8'-0"
30' HIGH FOUL POLE	24"	6'-6"	SEE DETAIL 11	ROUND ALUMINUM POLE AND GROUND SLEEVE BY OTHERS. HEIGHT FROM GRADE TO BOTTOM OF WING SCREEN = 8'-0"
25' HIGH FLAGPOLE	24"	5'-0"	SEE DETAIL 9	ROUND TAPERED ALUMINUM FLAGPOLE AND GROUND SLEEVE BY OTHERS. MAX. FLAG SIZE = 5' x 8'
30' HIGH NETTING POSTS ADJACENT TO C.I.D.H. DUGOUTS (APPROX. 19'-6" MAX. HIGH NETTING ABOVE C.I.D.H. DUGOUTS, SEE LANDSCAPE DWGS.)	30"	7'-0"	SEE DETAIL 8	10" STD. PIPE POSTS (SCHED. 40, 10.750" O.D. x 0.365" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 5'-0" o.c. SPLICE POSTS WHERE RECD. PER DET. 7/58.1.
30' HIGH NETTING POSTS ADJACENT TO C.I.D.H. DUGOUTS (APPROX. 18'-0" MAX. HIGH NETTING ABOVE C.I.D.H. DUGOUTS, SEE LANDSCAPE DWGS.)	30"	9'-6"	SEE DETAIL 8	10" STD. PIPE POSTS (SCHED. 40, 10.750" O.D. x 0.365" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 5'-0" o.c. SPLICE POSTS WHERE RECD. PER DET. 7/58.1.
30' HIGH NETTING THROUGHOUT REST OF FIELDS (22' HIGH NETTING ABOVE 8' HIGH C.L. FENCE, SEE LANDSCAPE DWGS.)	30"	9'-0"	SEE DETAIL 8	8" STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 4'-0" o.c. SPLICE POSTS WHERE RECD. PER DET. 7/58.1.
30' HIGH NETTING THROUGHOUT REST OF FIELDS (30' HIGH NETTING ONLY, NO FENCE, SEE LANDSCAPE DWGS.)	30"	8'-6"	SEE DETAIL 8	8" STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 10'-0" o.c. SPLICE POSTS WHERE RECD. PER DET. 7/58.1.
30' HIGH BACKSTOP	30"	6'-6"	SEE DETAIL 8	8" STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 10'-0" o.c. SPLICE POSTS WHERE RECD. PER DET. 7/58.1.

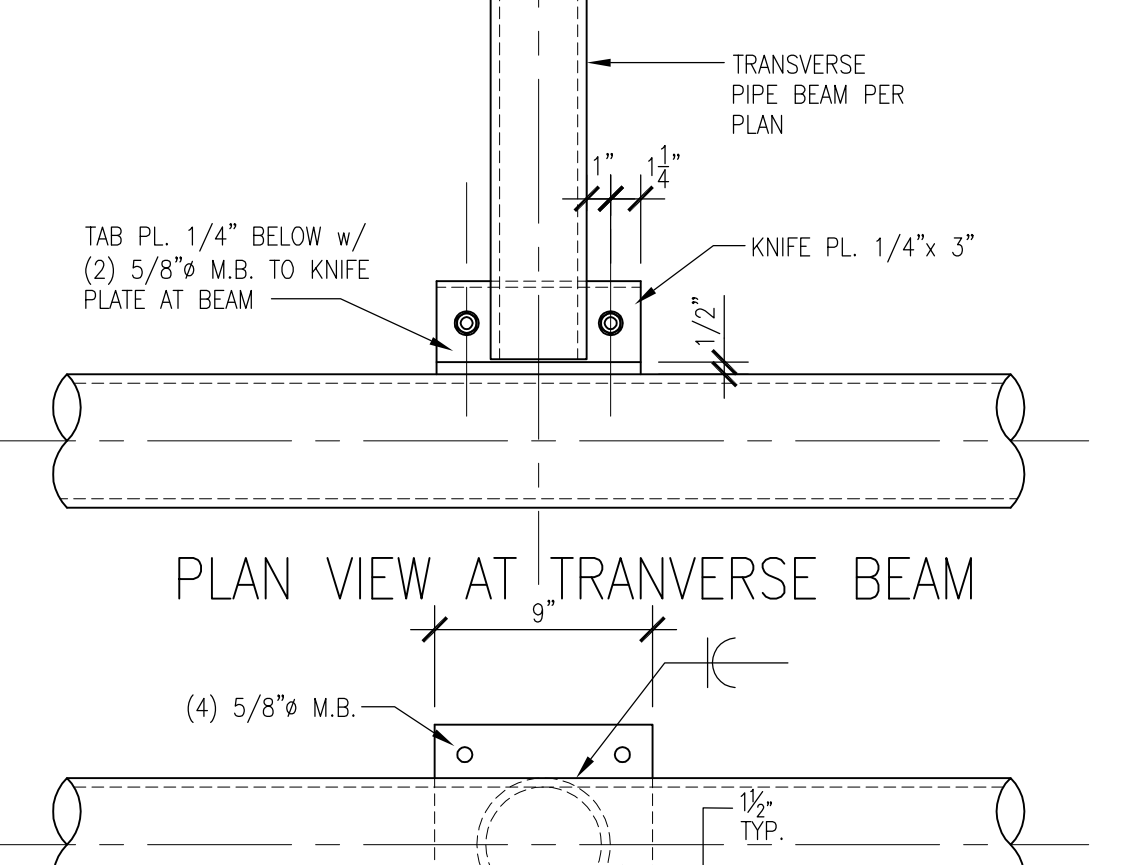
21 POLE/POST & C.I.D.H. PIER SCHEDULE
NO SCALE



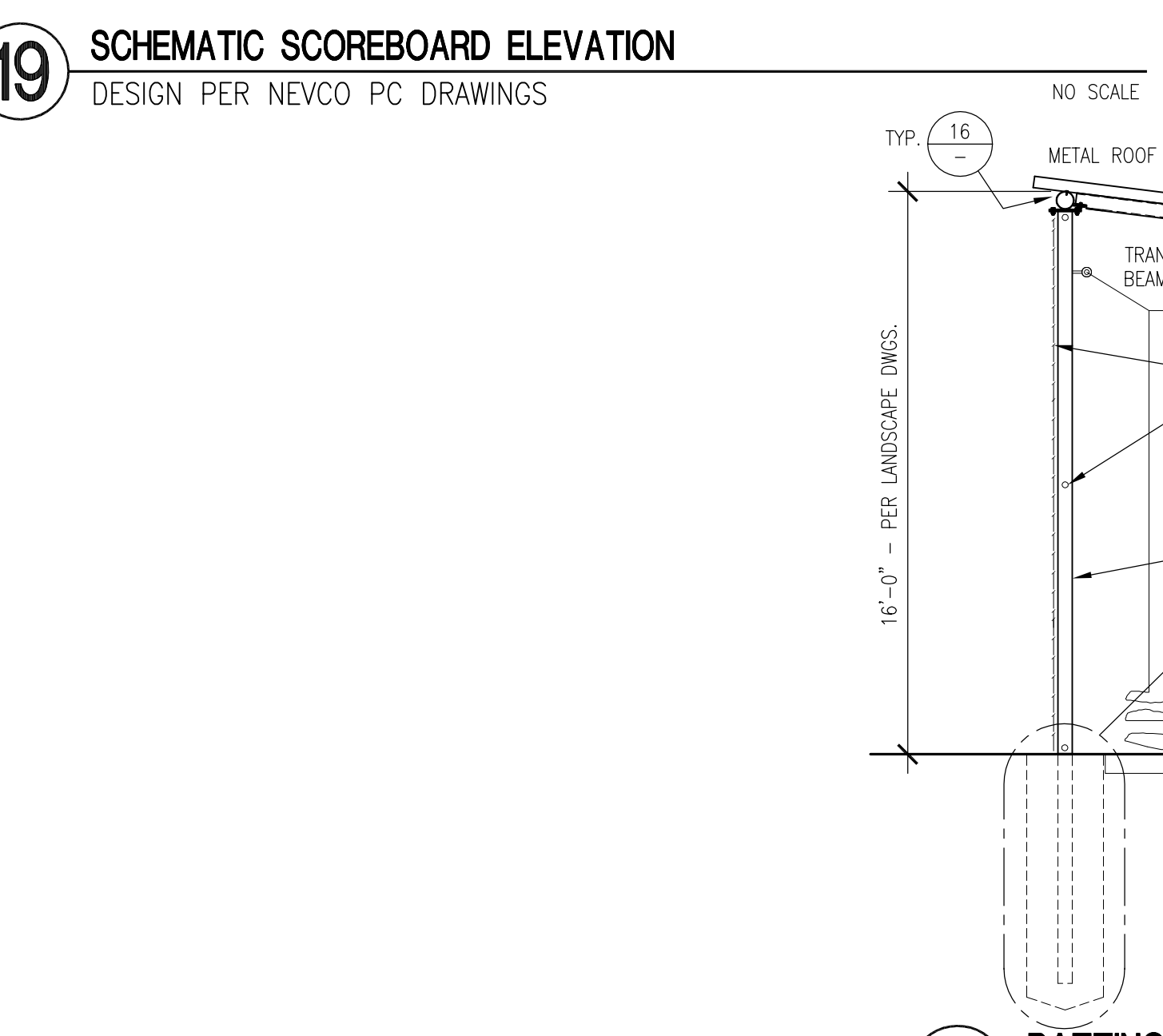
16 METAL ROOF DECK TO BEAM ATTACHMENT
1-1/2"=1'-0"



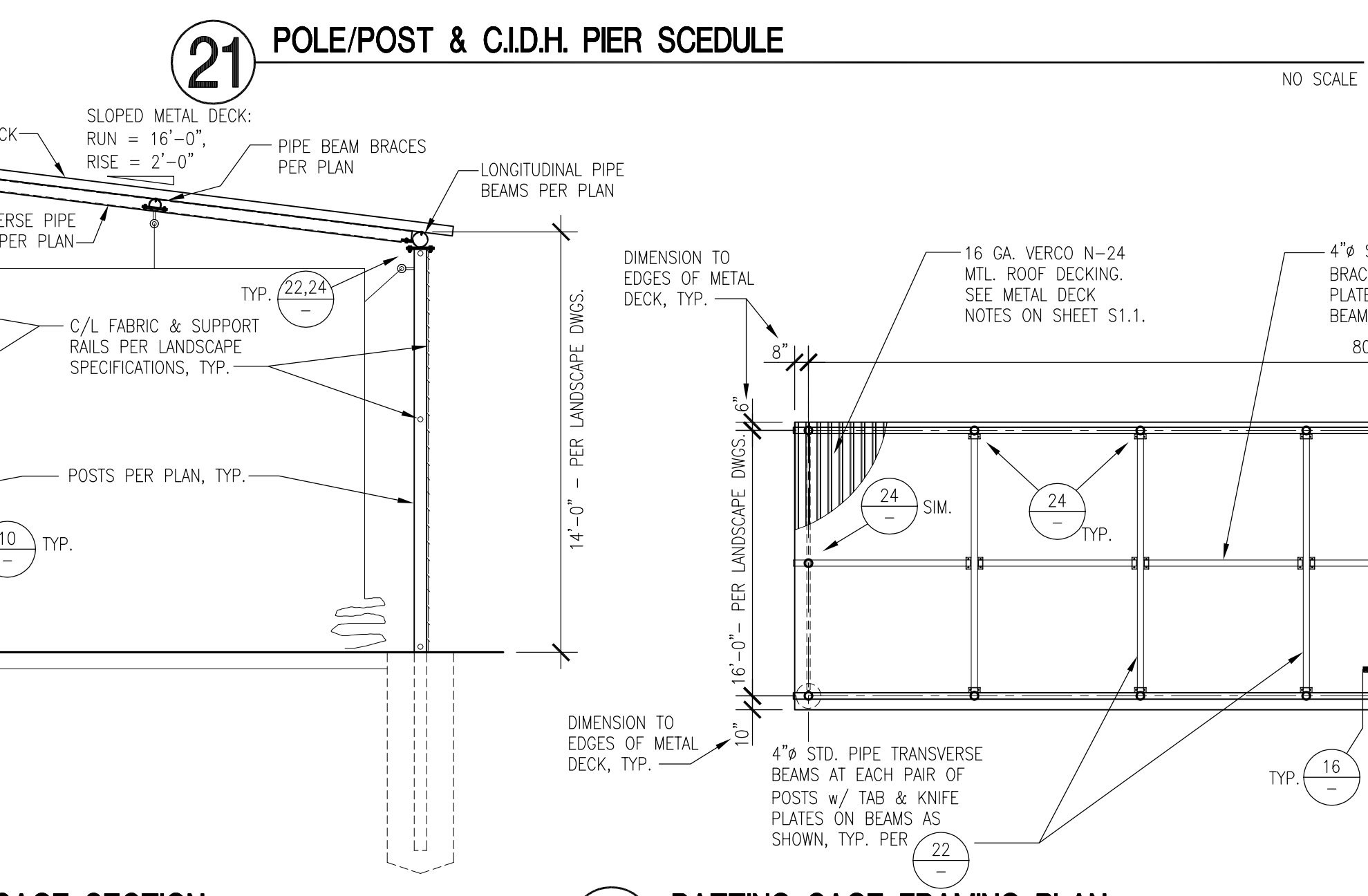
22 TRANSVERSE BEAM TO BEAM CONN.
1-1/2"=1'-0"



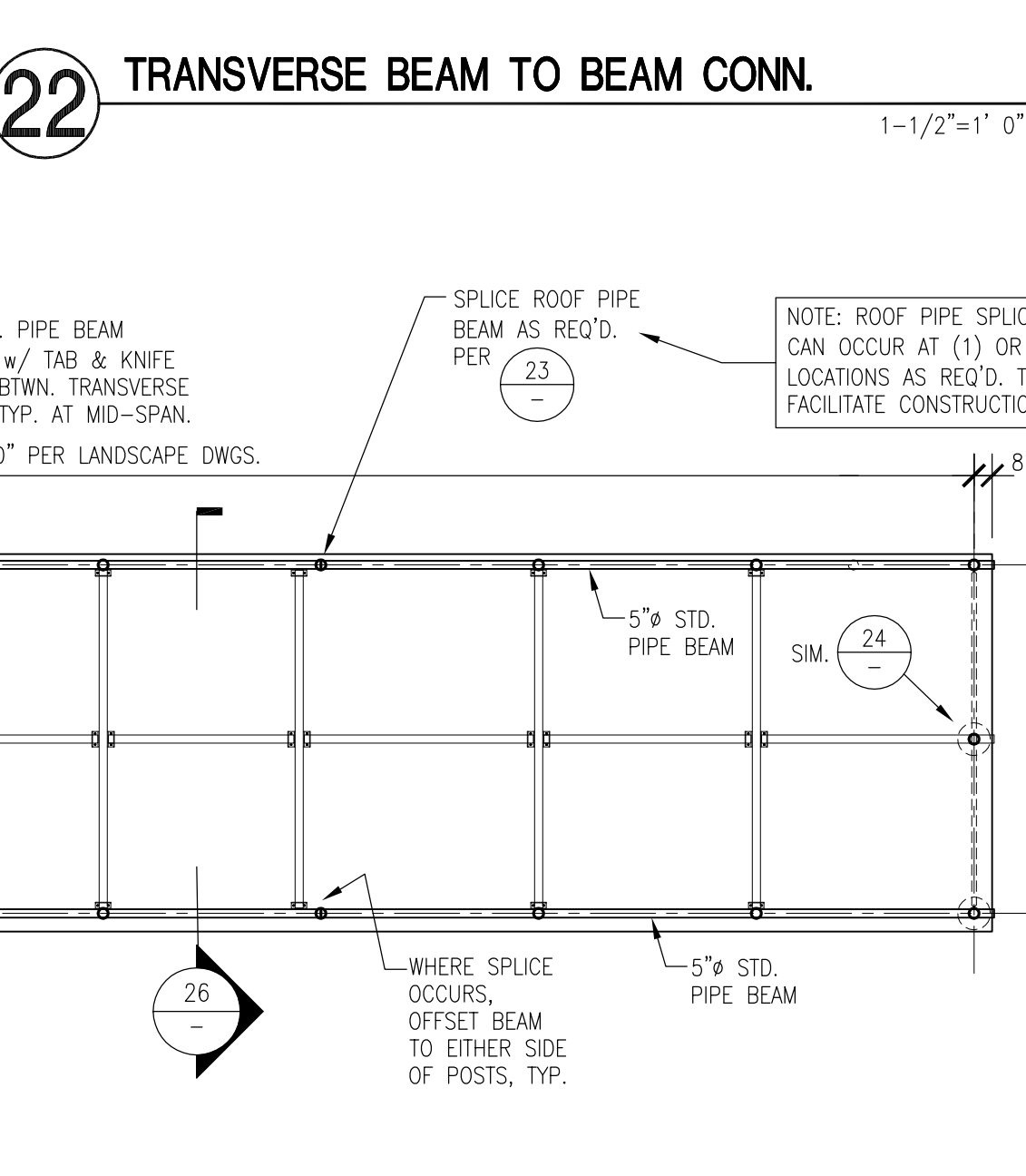
23 BATTING CAGE BEAM SPLICE
1-1/2"=1'-0"



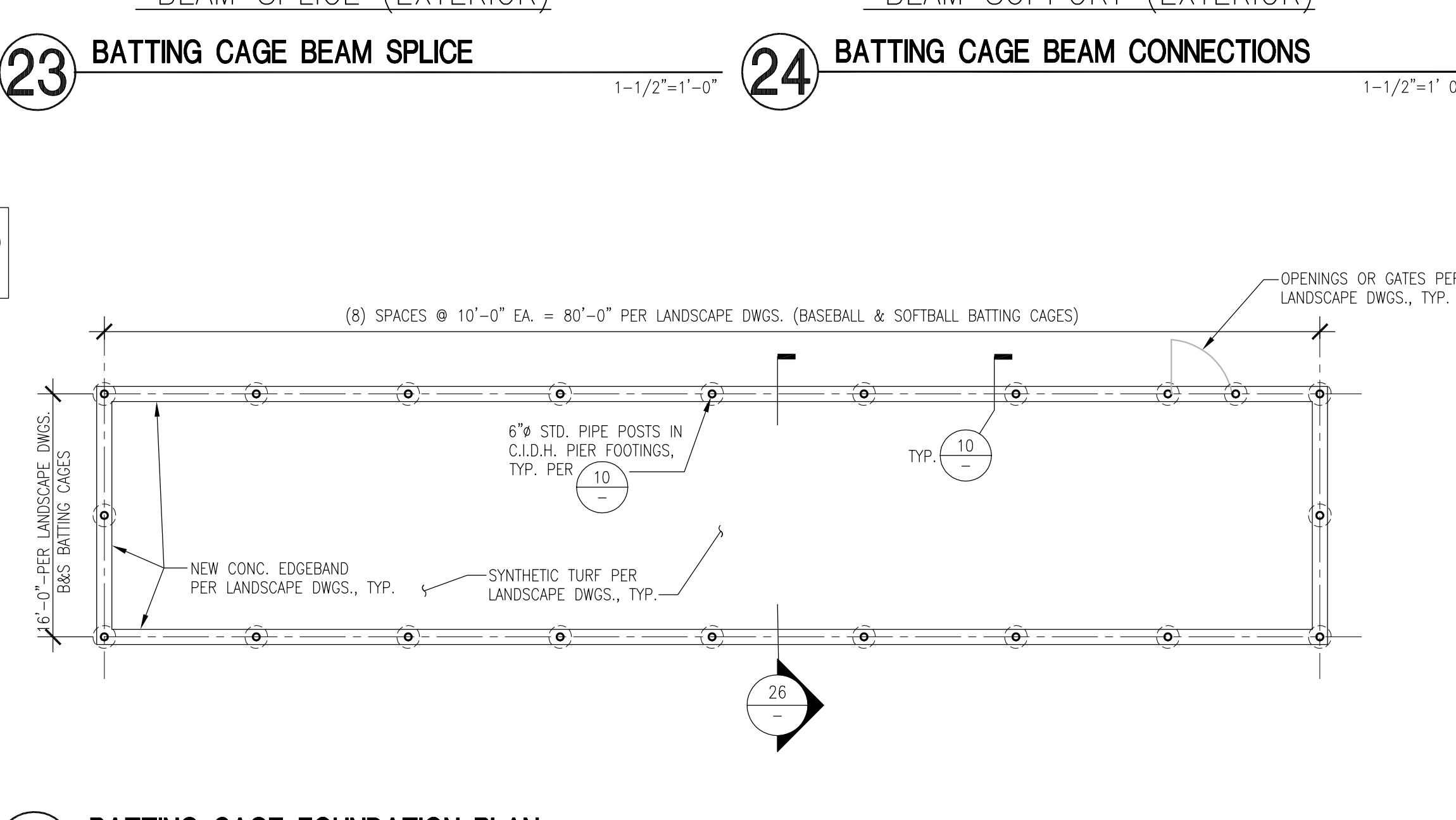
26 BATTING CAGE SECTION
N.T.S.



27 BATTING CAGE FRAMING PLAN
1/8"=1'-0"



29 BATTING CAGE FOUNDATION PLAN
1/8"=1'-0"



24 BATTING CAGE BEAM CONNECTIONS
1/8"=1'-0"

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Pole Rd. Suite 140
Folsom, CA 95630
tel: 916.413.6554
fax: 916.413.6525
www.VerdeDesign.com

STAMP
CONSULTANT
No. 5386
Exp. 3/31/25
AKH

AKH
Structural Engineers, Inc.
275 Tennant Avenue, Ste. 204 ph: 408.978.1970
Morgan Hill, CA 95037 AKHSE.com Job: 12-23-047

KEY MAP
SHEET TITLE
BB & SB
SITE STRUCTURES
FOUNDATION DETAILS

PROJECT NAME
WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

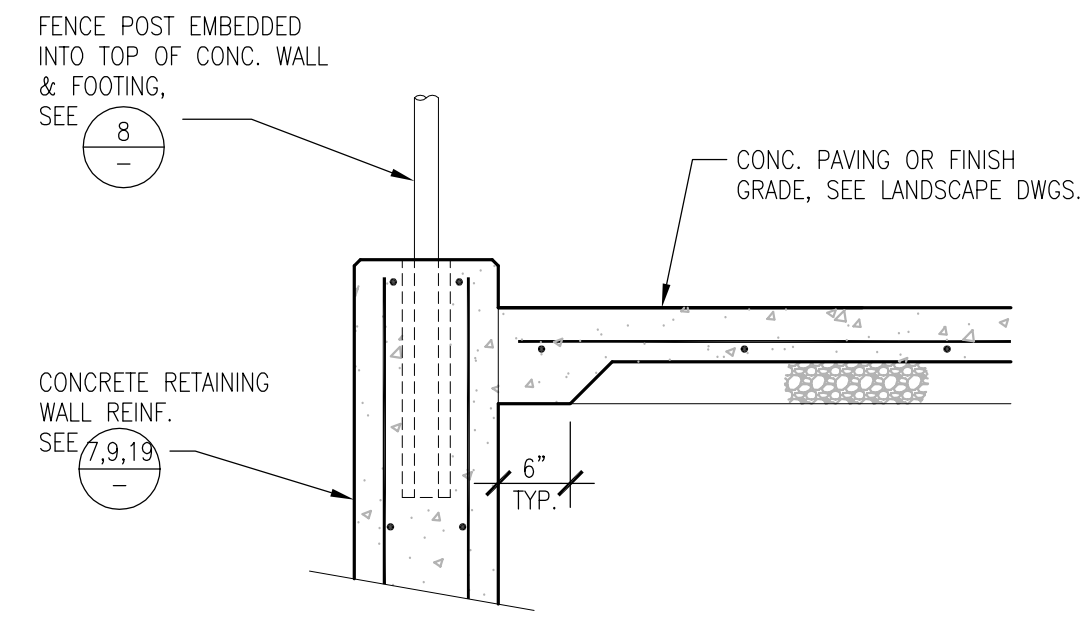
PROJECT ADDRESS
5022 58TH STREET
SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

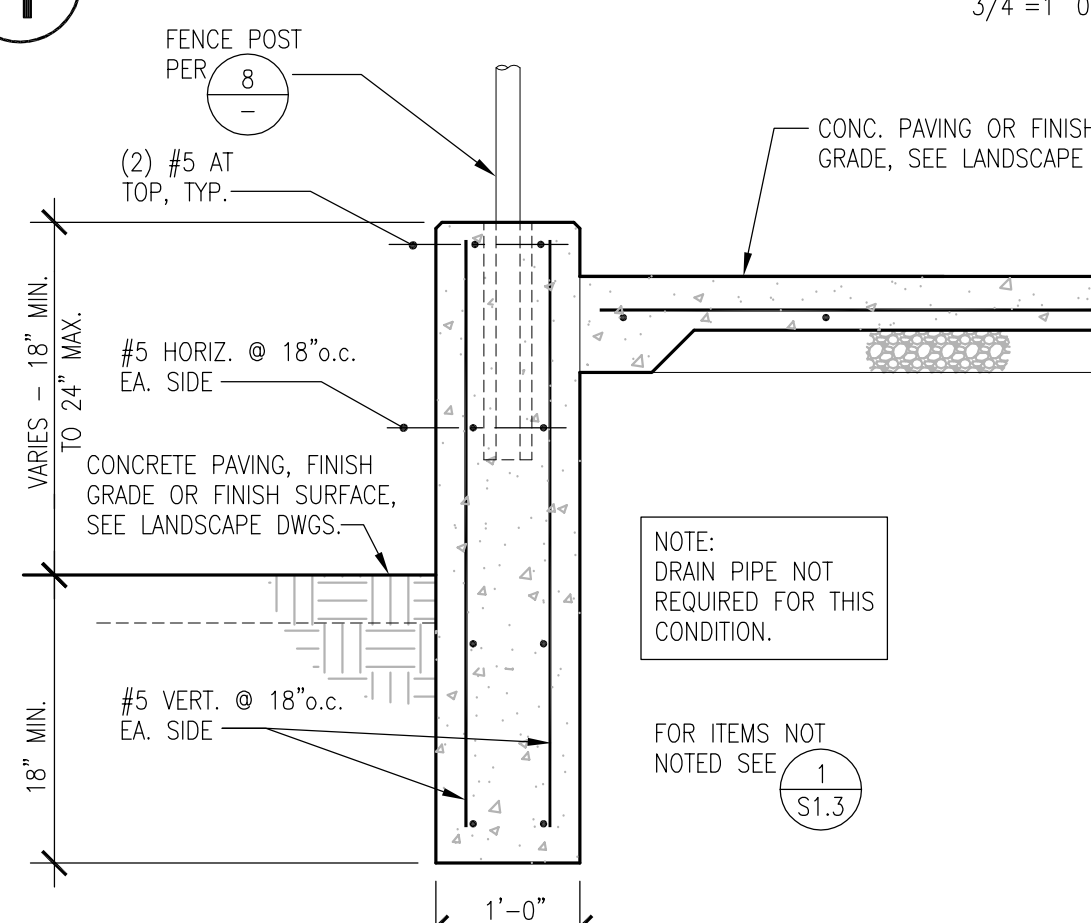
NO.	REVISIONS	DATE

DRAWN BY: JJQ
CHECKED BY: TDH
DATE ISSUED: 03/18/2024
SCALE: AS NOTED
PROJ. NO.: 2309900
SHEET NO.: **S8.1**

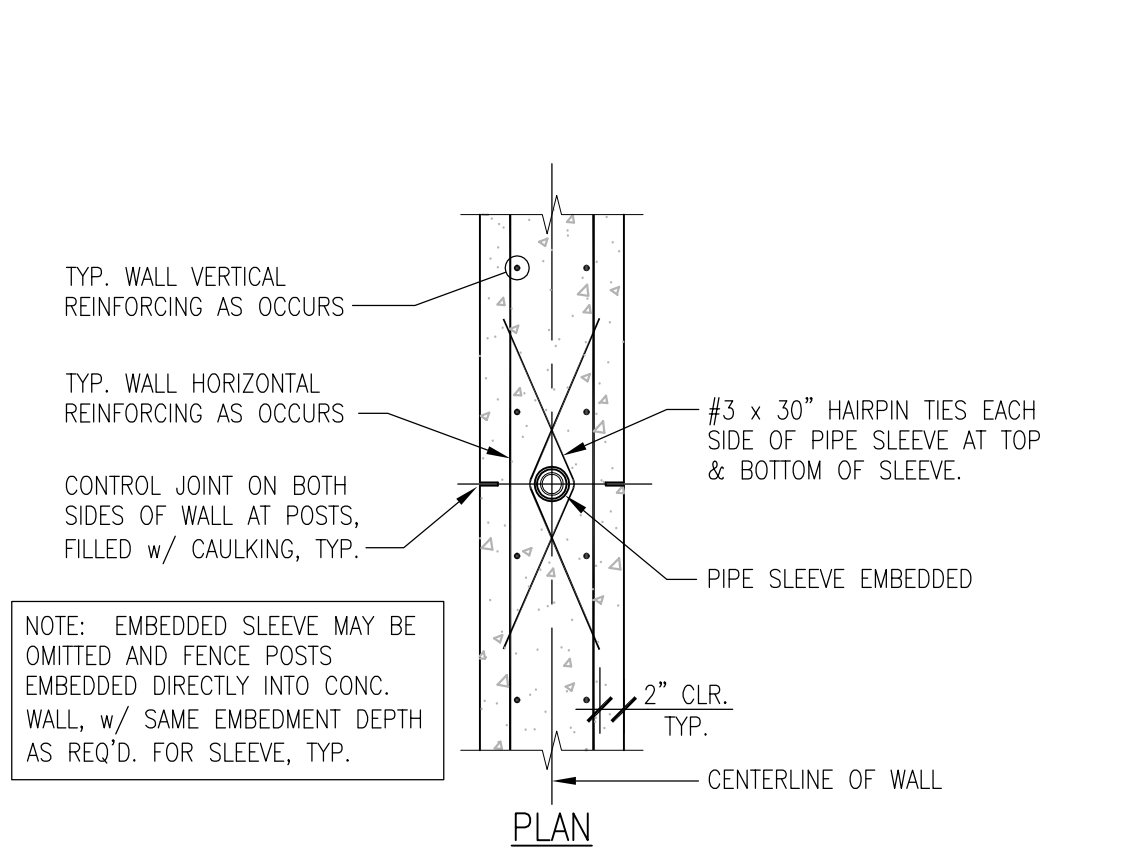
ALL DESIGN, DIMENSIONS, MATERIALS, METHODS, AND SPECIFICATIONS ARE THE PROPERTY OF VERDE DESIGN, INC. AND ARE NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.



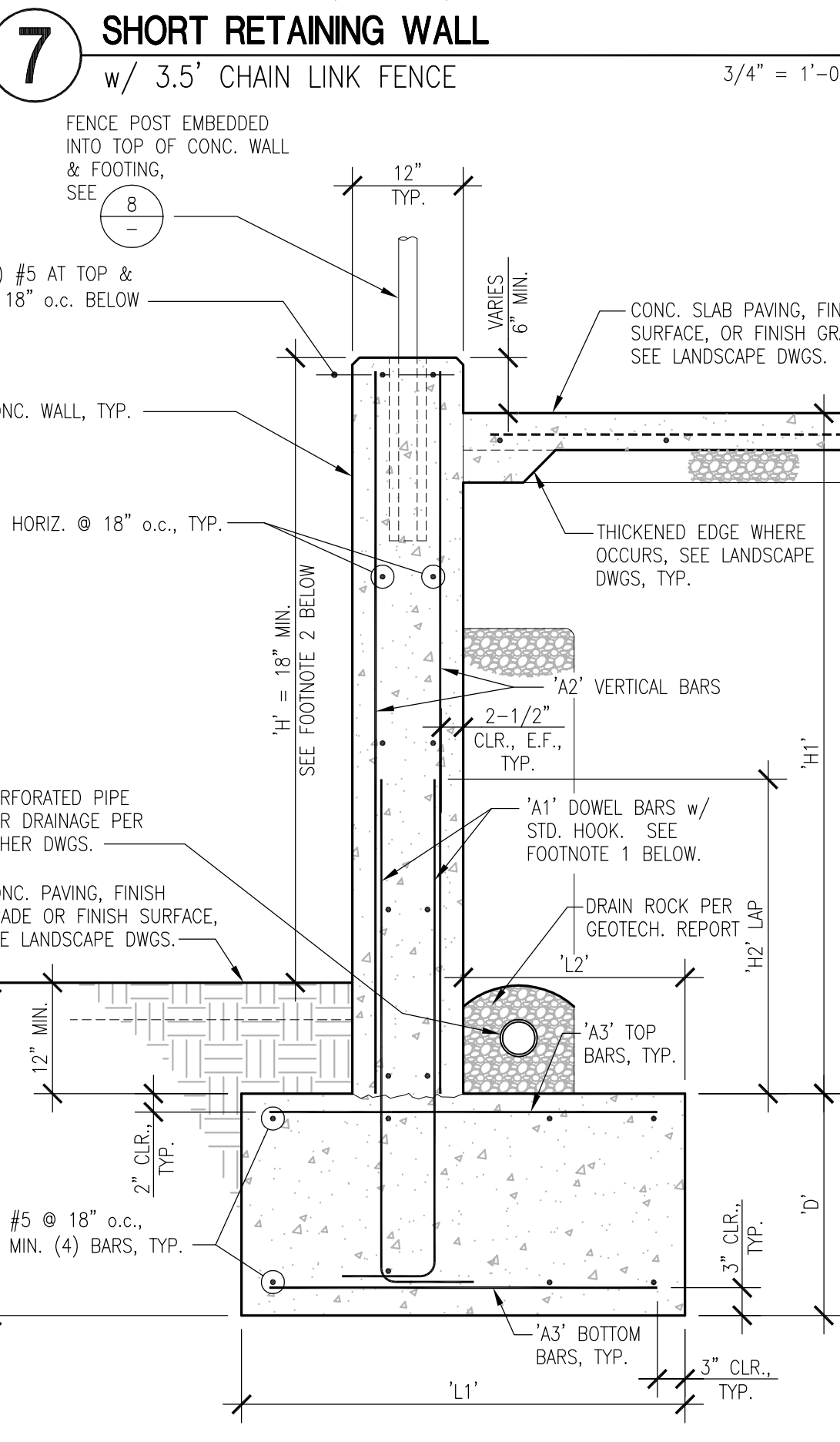
1 TOP OF WALLS
3/4" = 1' 0"



7 SHORT RETAINING WALL
w/ 3.5' CHAIN LINK FENCE
3/4" = 1' 0"



8 TYP. FENCE POST EMBED. INTO CONC.
3.5' FENCE IN WALL & BETWEEN NETTING POSTS
3/4" = 1' 0"

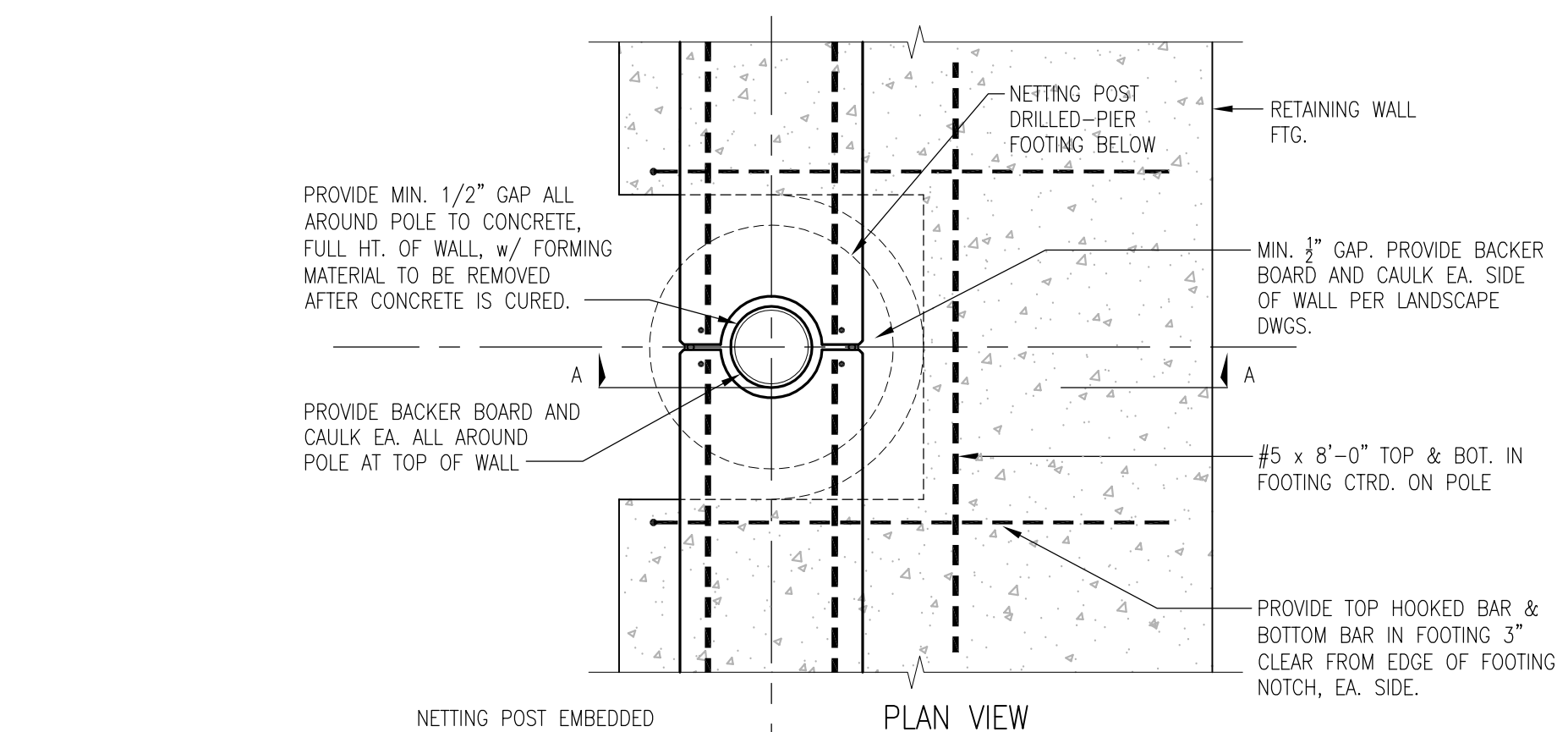


CANTILEVERED CONCRETE RETAINING WALL SCHEDULE

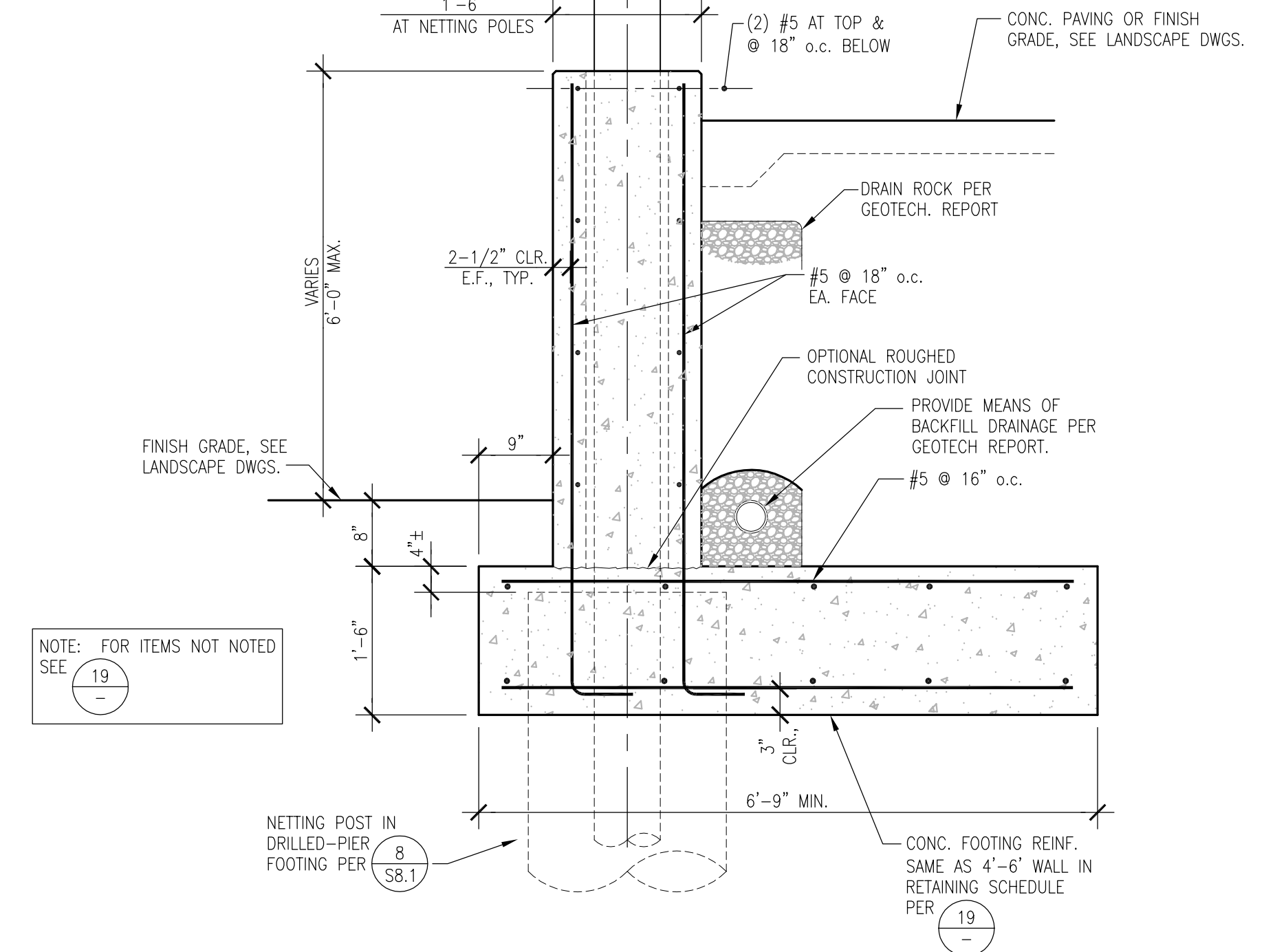
H1	H2	H3	L1	L2	D	A1 BARS	A2 BARS	A3 BARS
UP TO 2'								SEE DET. 7/-
2' TO 4'	36"	30"	3'-4"	1'-7"	18"		#5 @ 18" o.c.	
4' TO 6'			7'-0"	5'-3"			#5 @ 18" o.c.	

- FOOTNOTES:**
- IN LIEU OF 'A2' BARS, CONTRACTOR HAS THE OPTION TO CONTINUE 'A1' BARS UP INTO FULL HEIGHT OF WALL.
 - FOR WALLS WITH 'H' = 18" OR LESS, SEE TALL CURBS ON LANDSCAPE DRAWINGS.
 - FOR 1'-6" WIDE WALL BETWEEN NETTING POSTS, SEE DETAIL 9/S8.2.

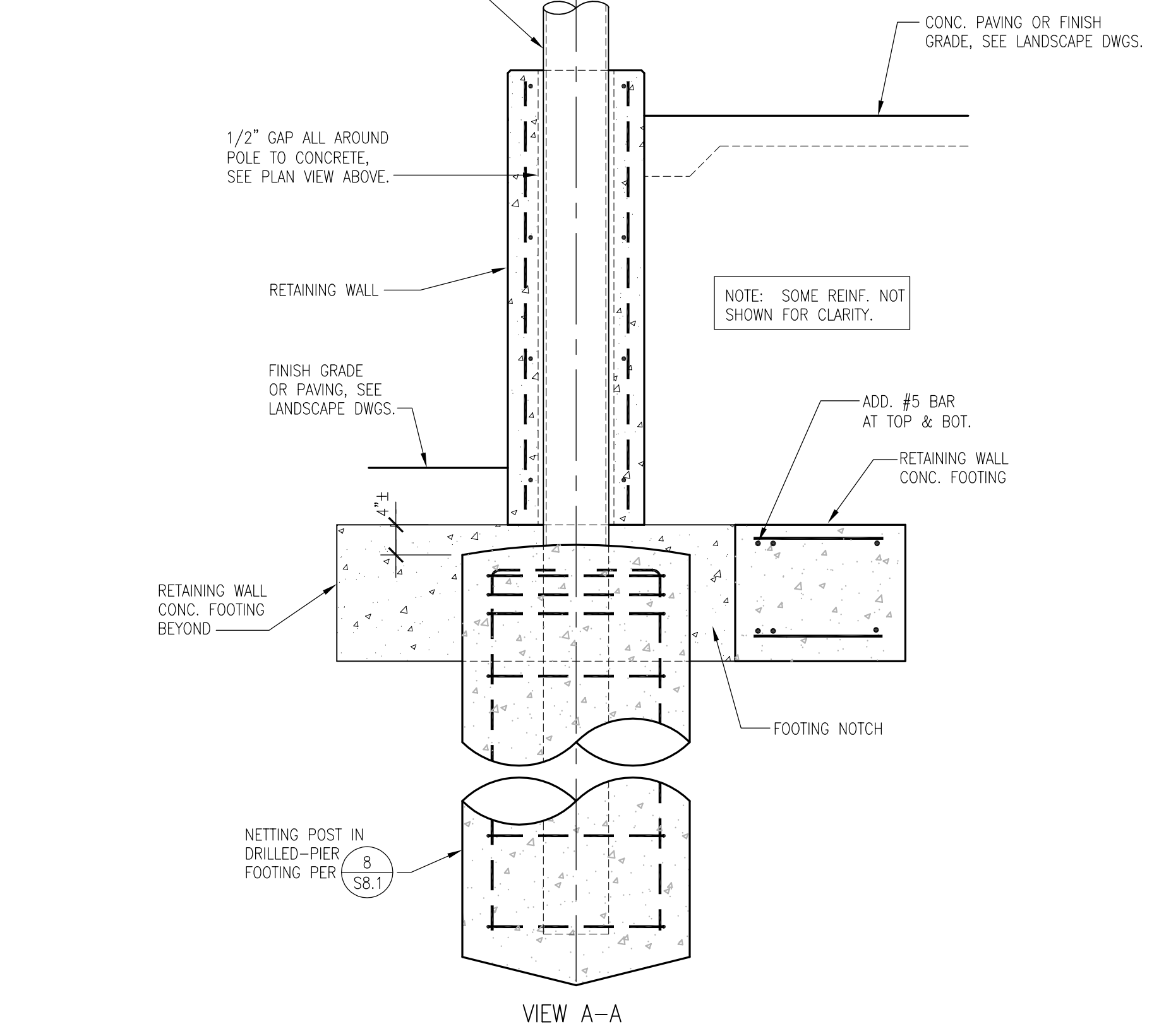
19 CONCRETE RETAINING WALL SCHEDULE & DETAIL
w/ 3.5' CHAIN LINK FENCE
3/4" = 1' 0"



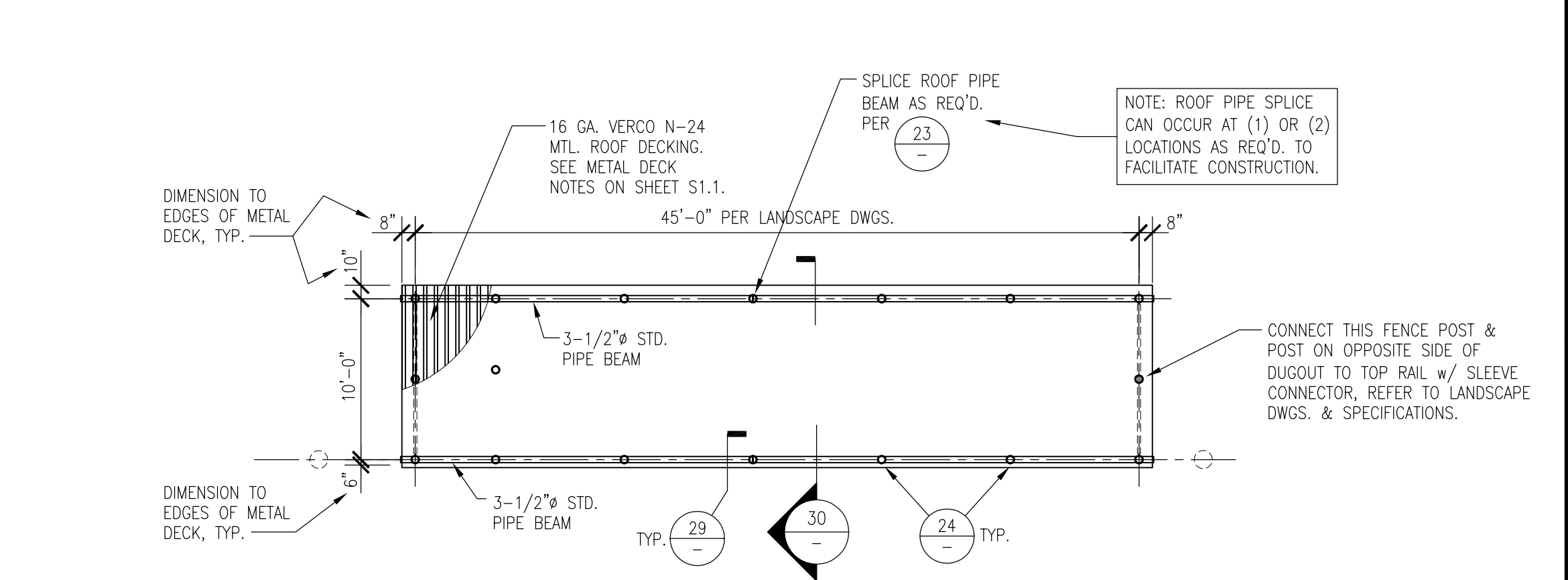
5 DUGOUT FRAMING PLAN
SOFTBALL & BASEBALL 3RD BASE (VISITOR)
1/8" = 1' 0"



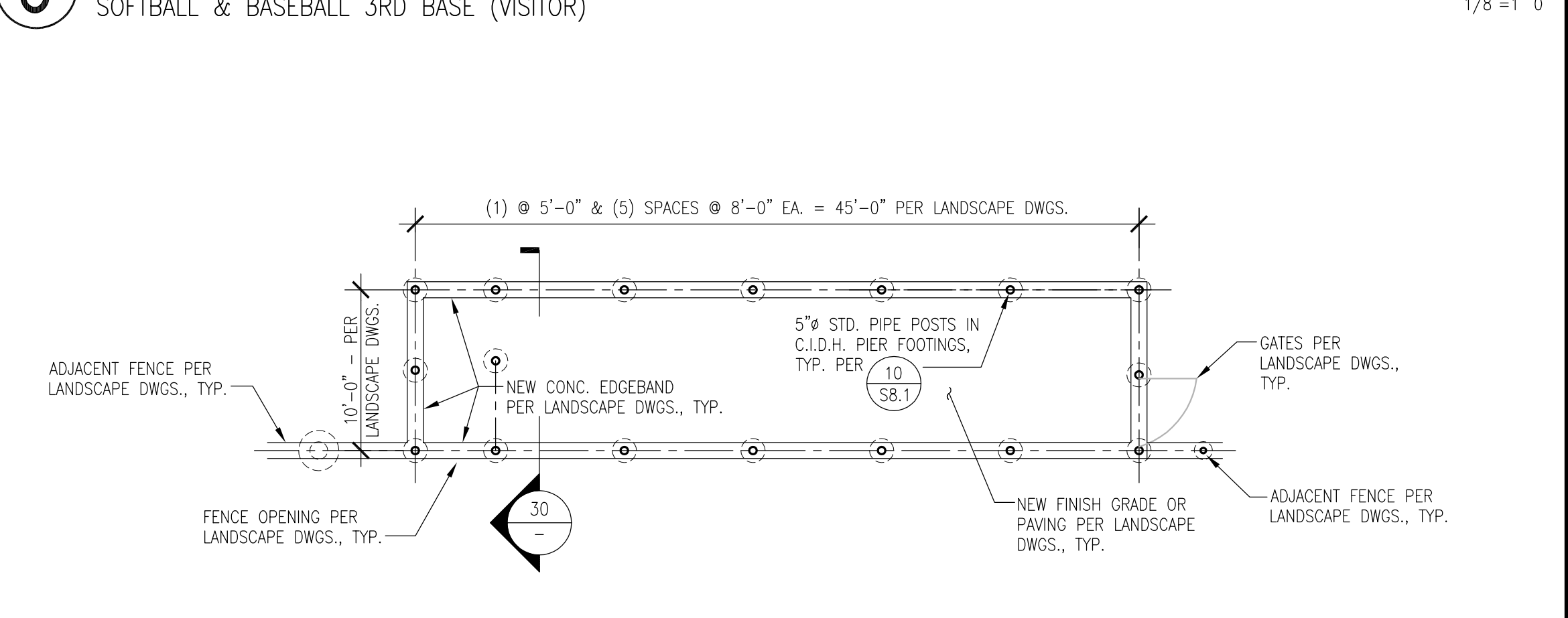
11 DUGOUT FOUNDATION PLAN
SOFTBALL & BASEBALL 3RD BASE (VISITOR)
1/8" = 1' 0"



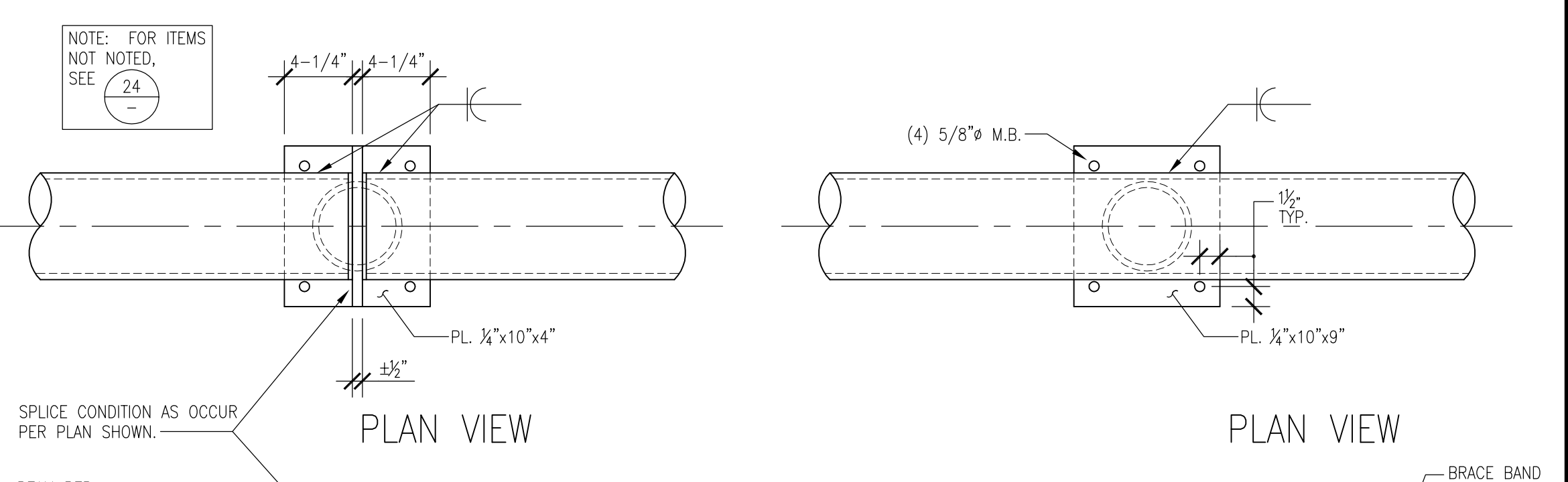
9 6' TALL RETAINING WALL
w/ NETTING POSTS
3/4" = 1' 0"



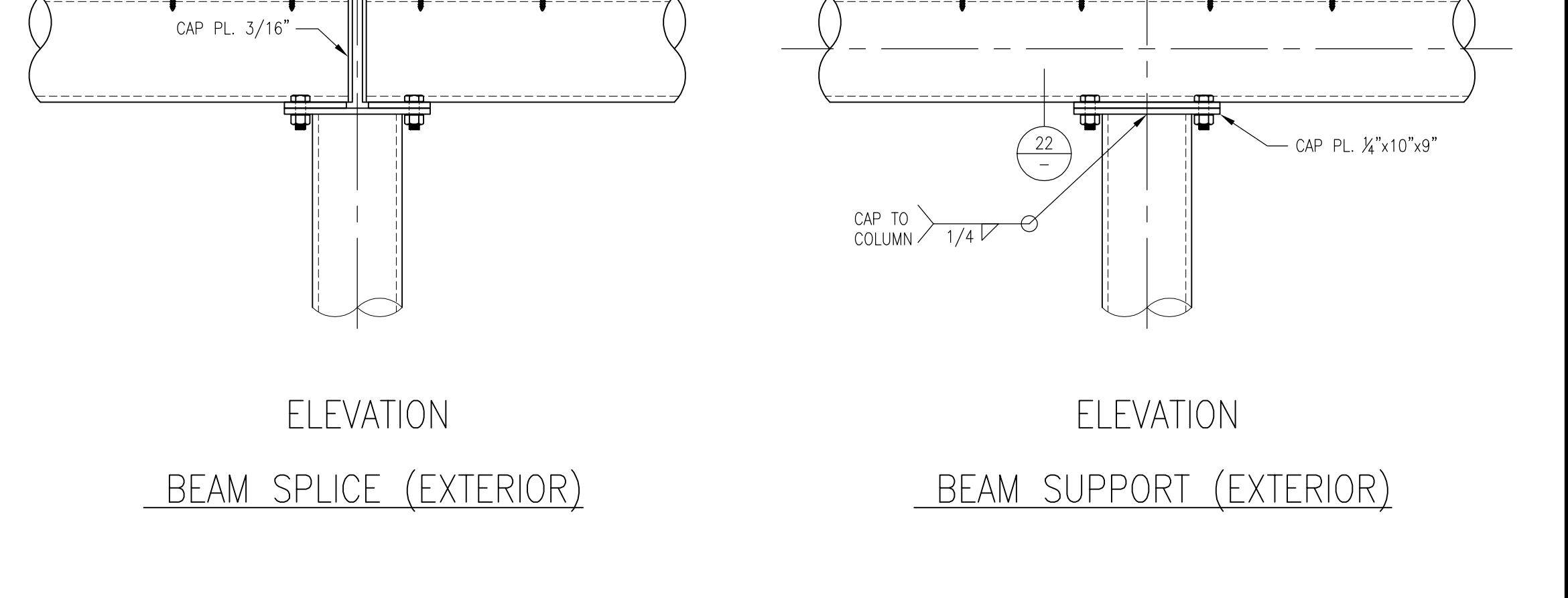
23 DUGOUT BEAM SPlice
1-1/2" = 1' 0"



24 DUGOUT BEAM CONNECTIONS
1-1/2" = 1' 0"



29 METAL ROOF DECK TO BEAM ATTACHMENT
1-1/2" = 1' 0"



30 DUGOUT SECTION
1" = 1' 0"

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.413.6554
fax: 916.413.6525
www.VerdeDesign.com

STAMP
CONSULTANT
Chun O. Hye

AKH
Structural Engineers, Inc.
275 Tennant Avenue, Ste. 204 ph: 408.978.1970
Morgan Hill, CA 95037 AKHSE.com Job: M23-047

KEY MAP

SHEET TITLE
BB & SB
SITE STRUCTURES
FOUNDATION DETAILS

PROJECT NAME
WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

PROJECT ADDRESS
5022 58TH STREET
SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

DRAWN BY: JJQ
CHECKED BY: TDH
DATE ISSUED: 03/18/2024
SCALE: AS NOTED
PROJ. NO.: 2309900

SHEET NO.: **S8.2**

ALL RIGHTS RESERVED. THIS DRAWING IS THE PROPERTY OF VERDE DESIGN, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC. VERDE DESIGN, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONS ARISING FROM THE USE OF THIS DRAWING.

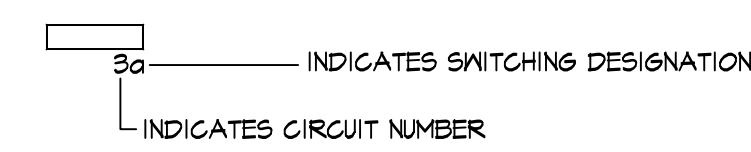
GENERAL NOTES:

- READ THE COMPLETE SPECIFICATIONS, CONTRACT DOCUMENTS AND COMPLY WITH EACH REQUIREMENTS.
- THE COMPLETE ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE N.E.C., AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE LISTED FOR THE APPLICATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWINGS, SHOW LOCATIONS OF PULLBOXES, CONDUIT RUNS AND WIRING CHANGES.
- ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE UL OR CSA LISTED AND SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN EXISTING CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDINGS UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RGS" UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM TWO (2) #12S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITS ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
- COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN SELECTED BASED ON DIMENSIONS TO FIT THE SPACE. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO ORDERING OF THE EQUIPMENT.
- CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS.
- THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
- NEW DUCT ROUTES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED IN THE FIELD TO CLEAR OTHER UNDERGROUND UTILITIES. PROVIDE AS-BUILT DRAWINGS TO INDICATE ACTUAL LOCATION OF CONDUIT ROUTING.
- EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.
- FROM ALL NEW PANELS, THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
- UTILITY SERVICE WORK SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY COMPANY'S RULES, REGULATIONS AND STANDARDS. AND SHALL BE VERIFIED WITH UTILITY COMPANY'S ENGINEERING DRAWINGS AND FIELD SUPERVISOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER, CATV AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS. THE CONTRACTOR SHALL REMAIN IN CONTACT WITH UTILITY COMPANY ENGINEERING DEPARTMENTS THROUGHOUT PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.
- THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAIN STRING FOR USE IN FUTURE CONSTRUCTION. STRINGS SHALL BE NYLON PULLSTRINGS ROPE/STRINGS.
- POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.
- MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
- PROVIDE SEISMIC BRACING FOR ALL PENDANT LIGHT FIXTURES, FREESTANDING ELECTRICAL DISTRIBUTION EQUIPMENT, MOTOR CONTROL CENTERS ETC. AND CONDUIT RACKS PER SEISMIC CRITERIA 2022 CBC REQUIREMENTS INCLUDING ENGINEERED LOAD CALCULATIONS COMPLETE WITH SNAY BRACING CRITERIA.
- DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
- ALL SPACES ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARES AND BUSHING FOR FUTURE BREAKER OR SWITCH.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2022 CALIFORNIA ELECTRICAL CODE.
- SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES AND BOND TO METAL COVER WITH #6 CU GND.

SYMBOL LIST:

	PLAN, DETAIL OR SECTION DESIGNATION.
	ROOM NUMBER.
	SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.
	FEEDER SCHEDULE SYMBOL.
	MECHANICAL EQUIPMENT TAG.
	INDICATES FIXTURE TYPE
LUMINAIRE SYMBOLS	
	LUMINAIRE - SEE SCHEDULE.
	LUMINAIRE - SEE SCHEDULE.
	LUMINAIRE - SEE SCHEDULE.
	LUMINAIRE - SEE SCHEDULE.
	LUMINAIRE - SEE SCHEDULE.
	LUMINAIRE WALL MOUNTED-SEE SCHEDULE.
	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
	EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
	EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
	EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.
	EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.
	COMBO EMERGENCY LIGHT/ EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
	EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.

TYPICAL LUMINAIRE NOMENCLATURE



SWITCH SYMBOLS

	SINGLE POLE SWITCH, + 48" AFF UON.
	SINGLE POLE SWITCH, + 48" AFF UON, α = CIRCUIT CONTROLLED.
	THREE WAY SWITCH + 48" AFF UON.
	FOUR WAY SWITCH + 48" AFF UON.
	MOTOR RATED SWITCH
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK

RECEPTACLE SYMBOLS

	CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF UON.
	6PFC CONVENIENCE RECEPTACLE - DUPLEX.
	RECEPTACLE DOUBLE DUPLEX AT + 18" AFF UON.
	SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.
	SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE, 5 WIRE AT + 18" AFF UON.
	FLOOR BOX WITH CONVENIENCE RECEPTACLE, TELEPHONE AND DATA OUTLET.
	FLUSH FLOOR BOX WITH SINGLE CONVENIENCE RECEPTACLE.
	WIRE RACEWAY, INSTALL AT + 36" AFF UON.

POWER DISTRIBUTION SYMBOLS

	PANELBOARD - SURFACE OR FLUSH MOUNTED.
	JUNCTION BOX - CEILING OR WALL MOUNTED SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT.
	DISTRIBUTION PANEL
	MOTOR
	COMBINATION MAGNETIC STARTER FUSED DISCONNECT SWITCH. RATINGS AS INDICATED.
	UNFUSED DISCONNECT SWITCH - RATINGS AS INDICATED.
	FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR MANUFACTURER'S RECOMMENDATIONS. RATINGS AS INDICATED.
	MAGNETIC STARTER - NEMA SIZE INDICATED.
	TRANSFORMER - SEE SINGLE LINE FOR SIZE.
	GROUND ROD.

WIRING & CONDUIT RUN SYMBOLS

	CONDUIT - CONCEALED IN WALLS OR CEILING.
	CONDUIT - EXPOSED.
	CONDUIT - IN OR BELOW FLOOR. 3/4" MIN.
	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT '6' INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH '#10' INDICATES WIRE SIZE OTHER THAN #12S.
	FLEX CONDUIT WITH CONNECTION.
	CONDUIT - STUB UP.
	CONDUIT - STUB DOWN.
	CONDUIT EMERGENCY SYSTEM.
	CAPPED CONDUIT.
	CONDUIT CONTINUATION.

POWER DISTRIBUTION SINGLE LINE SYMBOLS

	CIRCUIT BREAKER.
	T964E METER W/ CURRENT TRANSFORMER.
	TRANSFORMER.

IN-GRADE PULL BOXES

	IN-GRADE PULL BOX IDENTIFIED WITH 'L' HAS A LID LABELED 'LIGHTING'.
	IN-GRADE PULL BOX IDENTIFIED WITH 'S' HAS A LID LABELED 'SIGNAL'.
	IN-GRADE PULL BOX IDENTIFIED WITH 'P' HAS A LID LABELED 'ELECTRICAL'.

ABBREVIATIONS:

A	AMPERE	KV	KILOVOLT
ABV	ABOVE	KVA	KILOVOLT AMPERES
AF	AMP FRAME OR AMP FUSE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LT6	LIGHTING
ARCH	ARCHITECTURAL	MDM	THOUSAND CIRCULAR MILS
AS	AMP SWITCH	MD	MAIN DISTRIBUTION FRAME
AT	AMP TRIP	MEGH	MECHANICAL
ATS	AUTOMATIC TRANSFER SWITCH	MT	MOUNTED
BKR	BREAKER	MTD	MOUNTING
BLDG	BUILDING	NC	NORMALLY CLOSED
CONDUIT	CONDUIT	NIC	NOT IN CONTRACT
CATV	CABLE TELEVISION	NIEG	NOT IN ELECTRICAL CONTRACT
CB	CIRCUIT BREAKER	NO	NOMERS/ NORMALLY OPEN
CD	CANDELAB	NTS	NOT TO SCALE
CKT	CIRCUIT	O.C.	ON CENTER
CL	CENTER LINE	P	POLE CIRCUIT BREAKER
CL6	CEILING	PA	PUBLIC ADDRESS
CO	CONDUIT ONLY	PB	PULL BOX
CTR	CENTER	PF	POWER FACTOR
(D)	DENGLISH	PH	PHASE
DET	DETAIL	RELOC	EXISTING TO BE RELOCATED
DIM	DIMENSION	REQD	REQUIRED
DISTR	DISTRIBUTION	REGT	REGULATIONS
DWG	DRAWING	RM	ROOM
(E)	EXISTING	RSG	RIGID STEEL CONDUIT
EM	EMERGENCY	SHT	SHEET
EQPT	EQUIPMENT	SW	SWITCH
FA	FIRE ALARM	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	TC	TERMINAL CABINET
(F)	FUTURE	TEL	TELEPHONE
FIN	FINISH	TYP	TYPICAL
FL	FLOOR	UON	UNLESS OTHERWISE NOTED
G, GND	GROUND	V	VOLT
HST	HEIGHT	WP	WEATHERPROOF
HP	HORSEPOWER	XFR	TRANSFORMER
IC	INTERCOM		
IDT	INTERMEDIATE DISTRIBUTION FRAME		
JB	JUNCTION BOX		
KAIC	KILOAMPERE INTERRUPTING CAPACITY		

GENERAL ANCHORAGE NOTES:

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 161A1.18 THROUGH 161A1.26 AND ASCE 7-16 CHAPTERS 15, 26, AND 30.

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

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS 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 SUPPORT 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 WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE 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.

PIPINS, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACINGS NOTE

PIPINS, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM 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 13.6.1, 13.6.2, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 161A1.24, 161A1.25 AND 161A1.26.

THE METHOD OF SHOWING BRACINGS AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACINGS AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. HCAI OPM FOR 2018 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 SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP) ELECTRICAL DISTRIBUTION SYSTEM (E).

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

MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH HCAI (OSHPP) PREAPPROVAL (OPM #) # _____

DRAWING INDEX

SHEET NO.	SHEET TITLE
E01	ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULES
E10	ELECTRICAL DEMO SITE PLAN
E11	ELECTRICAL OVERALL SITE PLAN
E21	ELECTRICAL ENLARGED SOFTBALL SITE PLAN - NEW
E31	ELECTRICAL PLAN - DUGOUTS (SOFTBALL)
E32	ELECTRICAL PLAN - DUGOUTS (BASEBALL)
E33	ELECTRICAL PLAN - BATTING CAGE (BASEBALL AND SOFTBALL)
E31	ELECTRICAL SINGLE LINE DIAGRAM
E71	ELECTRICAL DETAILS
E72	ELECTRICAL DETAILS
E73	ELECTRICAL DETAILS
E74	ELECTRICAL DETAILS
E22	ELECTRICAL ENLARGED BASEBALL SITE PLAN - NEW

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



VERDE DESIGN
LANDSCAPE ARCHITECTURE
SPORT PLANNING & DESIGN
1843 Iron Point Rd., Suite 140
Folsom, CA 95630
tels: 916.413.6554
fex: 916.413.6525
www.VerdeDesign.com

STAMP



CONSULTANT



American Consulting Engineers
Electrical, Inc.
1500 The Armada Suite 200
San Jose, CA 95128
408/236-2312
408/236-2316
JOB #023095

KEY MAP

SHEET TITLE

ELECTRICAL SYMBOLS,
ABBREVIATIONS, NOTES
AND SCHEDULE

PROJECT NAME

WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

PROJECT ADDRESS

5022 58TH STREET
SACRAMENTO, CA 95820

SUBMITTAL

DATE

50% SUBMITTAL

10/20/23

100% DSA SUBMITTAL

12/15/23

BACKCHECK SUBMITTAL

03/18/24

NO.

REVISIONS

DATE

△

△

△

△

△

△

DRAWN BY

CN

CHECKED BY

AA/SF

DATE ISSUED

SCALE

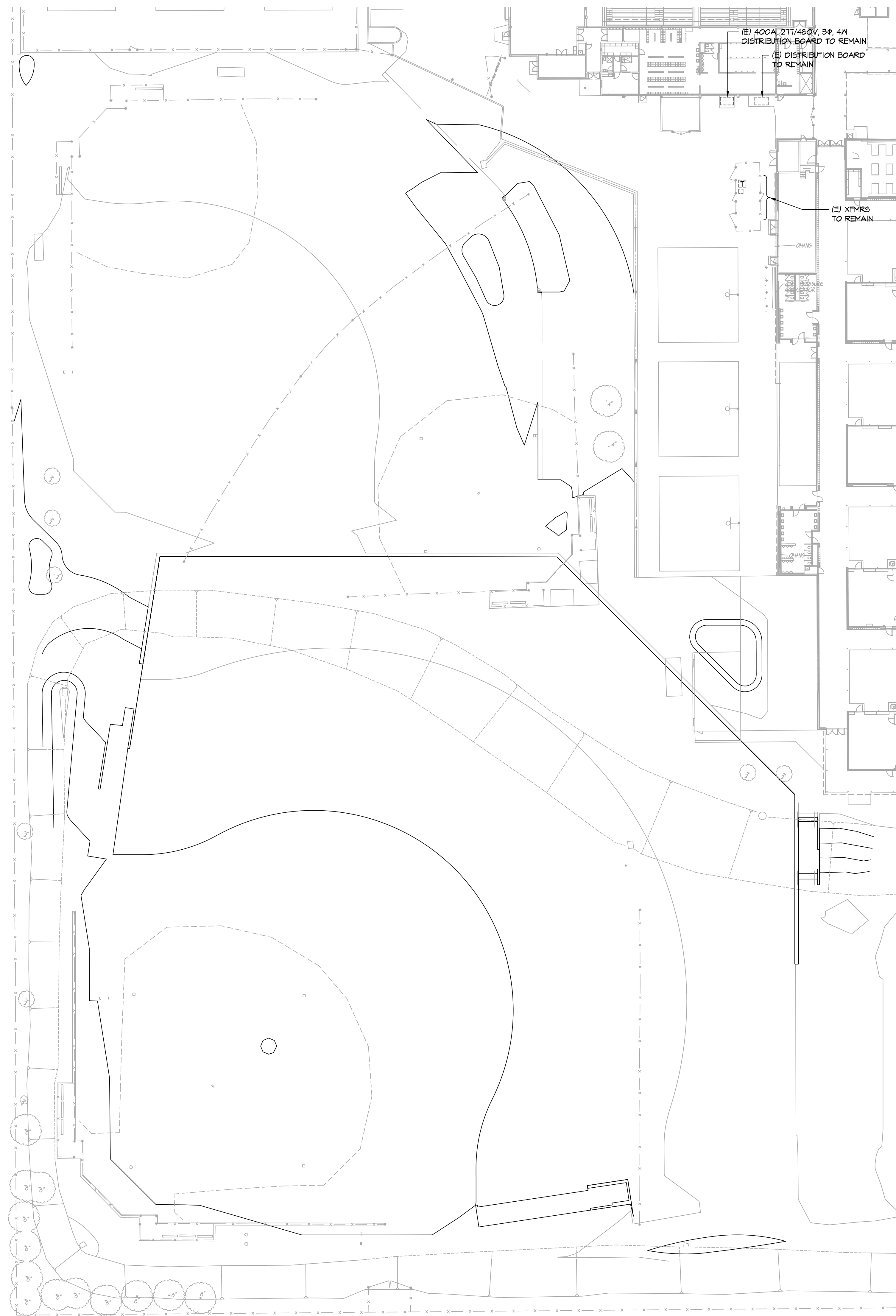
PROJ. NO.

2309900

SHEET NO.

E0.1

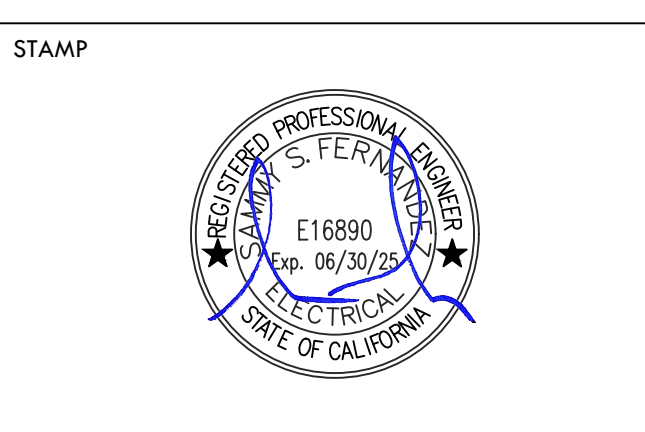
ALL DESIGN, CONSTRUCTION, AND/OR MATERIALS SPECIFICATIONS ARE THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, DEVELOPED, AND DELIVERED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, CONSTRUCTION, OR MATERIALS SPECIFICATIONS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND DEMOLITION REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL PHASING SCHEDULE. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. (E) FULL BOX NOT SHOWN OR IDENTIFIED ON DRAWINGS TO REMAIN AND SHALL NEED TO BE ADJUSTED TO (N) FINISH GRADE. CONTRACTOR TO PROVIDE AND INCLUDE, IN BID, BOX ADJUSTMENTS. ADJUSTMENTS INCLUDE (N) GRAVEL AND ADDITIONAL FULL BOX APRON.
4. ALL (E) CONDUITS SHOWN ON DRAWINGS ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT ROUTING. CONTRACTORS TO INCLUDE IN BID PROFESSIONAL UNDERGROUND CONDUIT LOCATOR AS NEEDED FOR HESHS TO BE FAMILIAR WITH THE (E) SITE CONDITIONS AND PROVIDE REQUIRED WORK AND ADJUSTMENTS TO EXTEND/RECONNECT POWER CONDUITS AS NOTED IN DRAWINGS.
5. CONTRACTOR SHALL VERIFY ALL EXISTING ELECTRICAL EQUIPMENT NOTED ON DRAWINGS AND REMOVE TO SOURCE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND LOGATING POWER AND COMMUNICATION SOURCE AND PROPERLY SAFE-OFF ALL ELECTRICAL EQUIPMENT NOTED TO BE DEMOLISHED.

VERDE DESIGN
 LANDSCAPE ARCHITECTURE
 CIVIL ENGINEERING
 SPORT PLANNING & DESIGN
 1843 Iron Point Rd., Suite 140
 Folsom, CA 95630
 tel: 916.413.6554
 fax: 916.413.6525
 www.VerdeDesign.com



**American Consulting Engineers
 Electrical, Inc.**
 1550 The Armetts Suite 200 San Jose, CA 95128
 408/236-2312 Fax: 408/236-2316
 JOB #023095



SHEET TITLE
 ELECTRICAL DEMOLITION
 SITE PLAN

PROJECT NAME
 WEST CAMPUS
 HIGH SCHOOL
 BASEBALL & SOFTBALL
 IMPROVEMENTS

PROJECT ADDRESS
 5022 58TH STREET
 SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

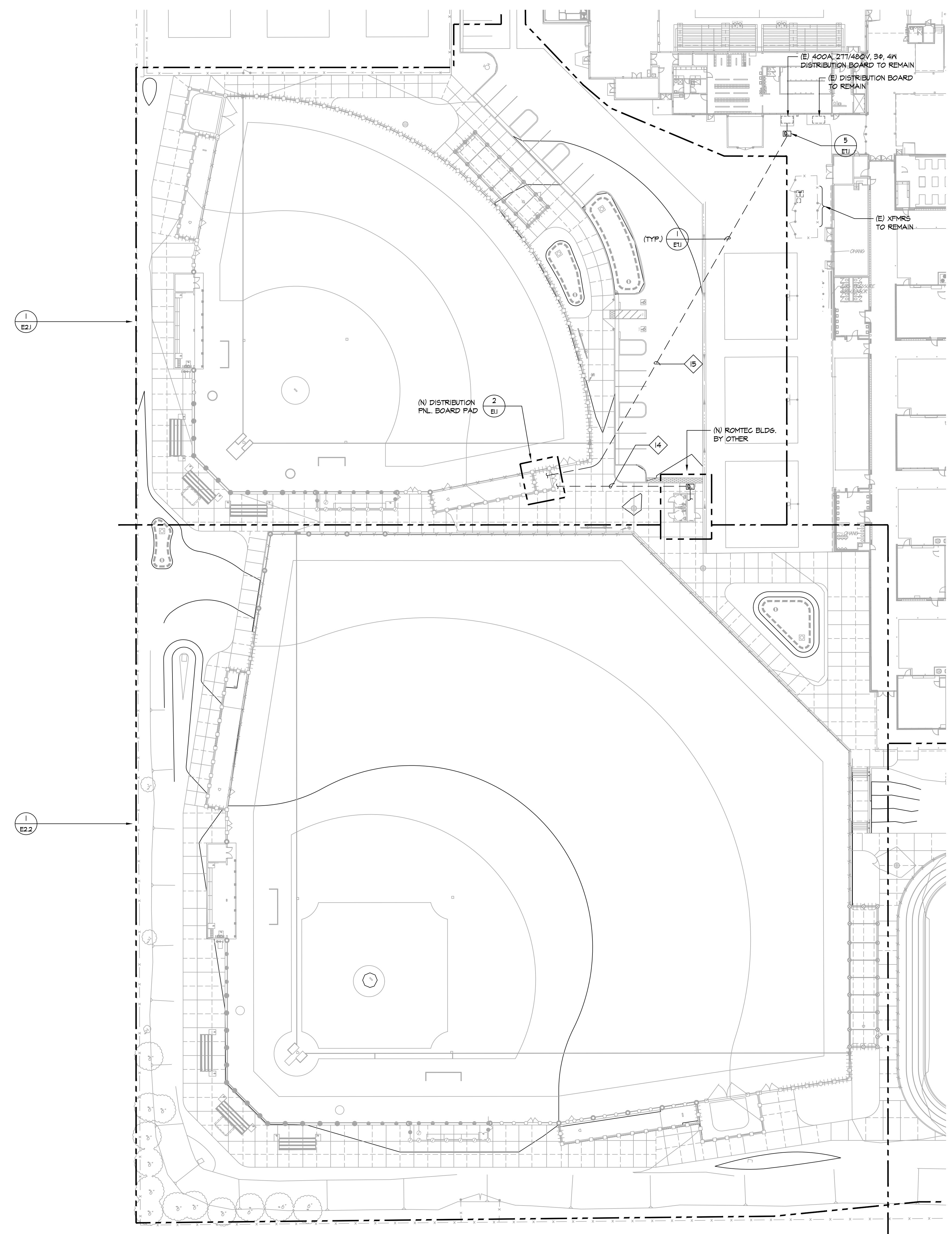
NO.	REVISIONS	DATE

DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 03/18/2024	SCALE
PROJ. NO. 2309900	SHEET NO. E1.0



1 ELECTRICAL DEMOLITION SITE PLAN
 SCALE: 1" = 30'-0"

ALL ELECTRICAL SYMBOLS, NOTATIONS, AND DIMENSIONS ARE THE PROPERTY OF VERDE DESIGN, INC. AND MUST BE USED IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



1 ELECTRICAL OVERALL SITE PLAN
 E1.1 SCALE: 1" = 30'-0"

GENERAL NOTES:

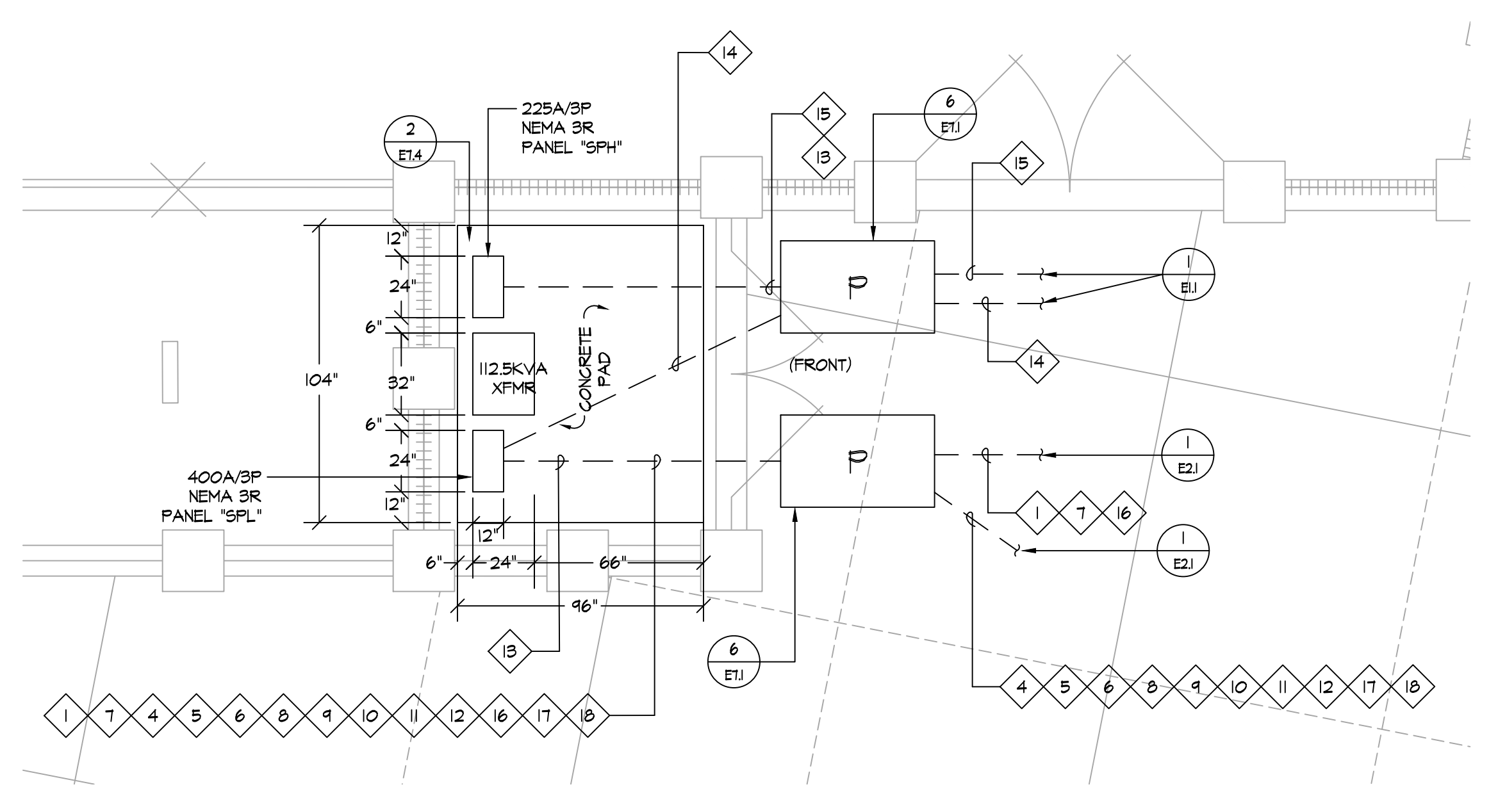
- CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
- CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS (WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUITS/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
- SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
- CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
- ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
- PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
- IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
- IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
- ALL POWER SYSTEM CONDUITS STUB IN 'ELECTRICAL' PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN 'SIGNAL' BOXES AS REQUIRED BY CODE.
- ALL PULL BOXES SHALL BE TRAFFIC RATED B2486 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
- COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.

SHEET NOTES:

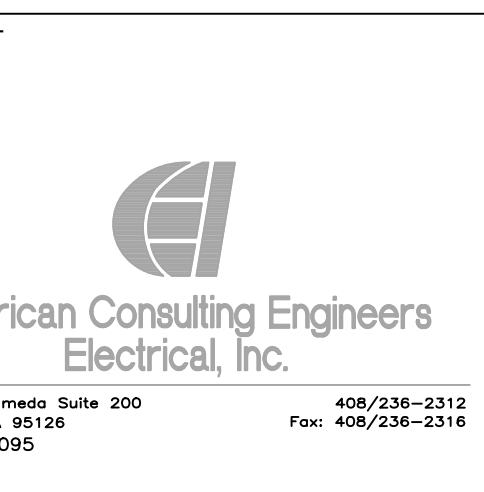
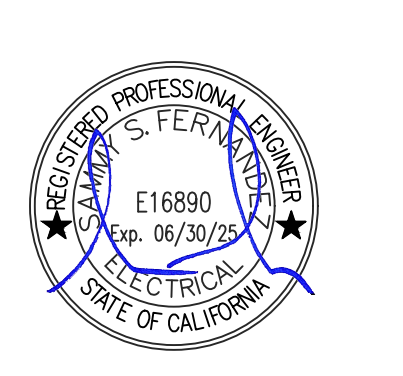
- IRRIGATION BOOSTER PUMP: CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT FOR EXACT LOCATION.
- IRRIGATION CONTROLLER CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT FOR EXACT LOCATION.
- LOCATE INTERCEPT AND EXTEND CONDUIT TO OUTGOING CONDUIT FROM RESTROOM BUILDING THAT IS STUBBED 5' FROM WALL.

CONDUIT SCHEDULE:

POWER SYSTEMS	
1	(1) 2" C - POWER - SOFTBALL BATTING CAGE
2	(1) 2" CO - SPARE
3	(1) 2" C - POWER - SOFTBALL DUGOUT
4	(1) 2" C - POWER - SOFTBALL BACKSTOP
5	(2) 2" C - LIGHTING - SOFTBALL DUGOUT
6	(2) 2" C - POWER - SOFTBALL DUGOUT
7	(1) 2" C - POWER - SOFTBALL SCOREBOARD
8	(1) 2" C - POWER - BASEBALL SCOREBOARD
9	(1) 2" C - POWER - BASEBALL BATTING CAGE
10	(1) 2" C - POWER - BASEBALL BACKSTOP
11	(2) 2" CO - SPARE
12	(2) 2" C - POWER - BASEBALL DUGOUT
13	(3) 2" CO - SPARE
14	(1) 2" C - POWER - ROTEC PANEL
15	(1) 3" C - POWER - DISTRIBUTION
16	(1) 2" C - LIGHTING - SOFTBALL BATTING CAGE
17	(1) 2" C - LIGHTING - BASEBALL BATTING CAGE
18	(1) 1-1/4" C - POWER - IRRIGATION CONTROLLER



2 ENLARGED ELECTRICAL DISTRIBUTION PAD
 E1.1 SCALE: 1/4" = 1'-0"



SHEET TITLE
ELECTRICAL OVERALL SITE PLAN

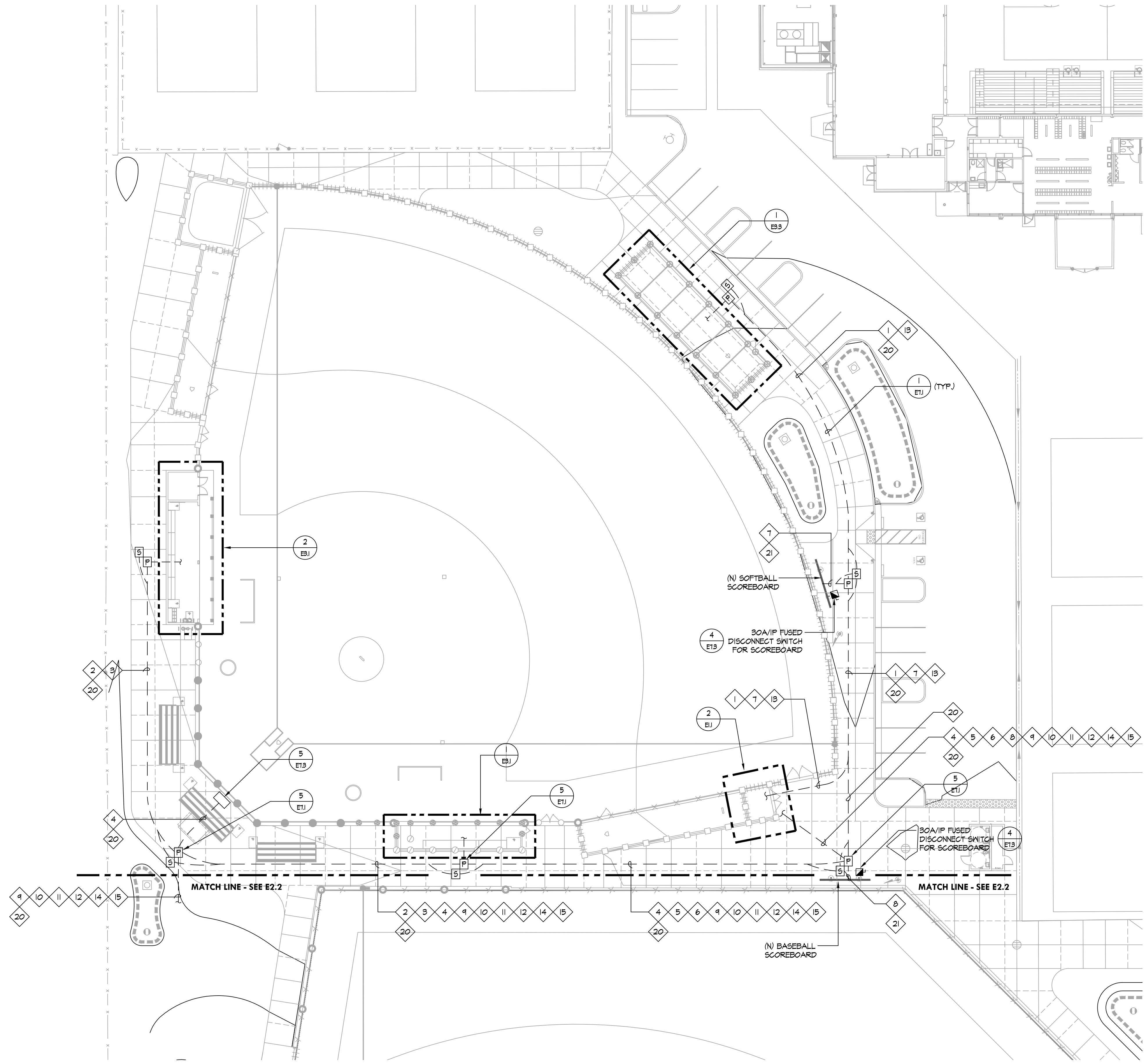
PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 03/18/2024	SCALE
PROJ. NO. 2309900	
SHEET NO. E1.1	

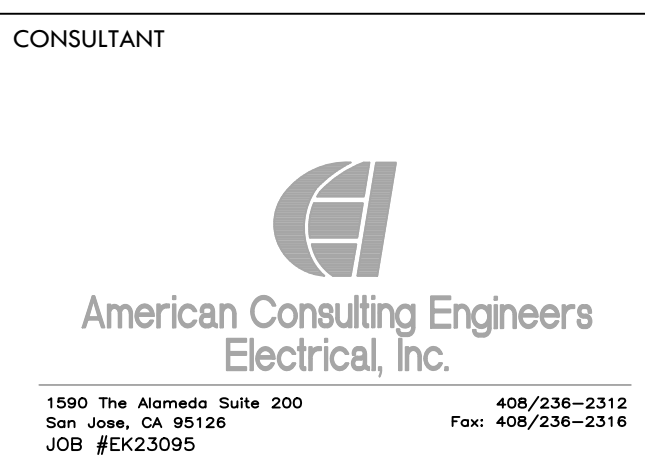
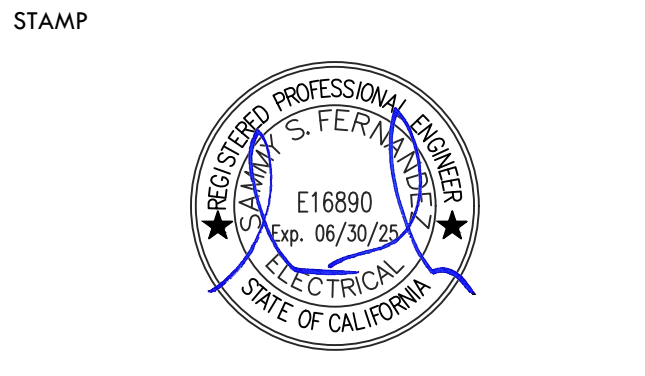


GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRACES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUITS/FIBERS ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'ELECTRICAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN 'ELECTRICAL' PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN 'SIGNAL' BOXES AS REQUIRED BY CODE.
13. ALL PULL BOXES SHALL BE TRAFFIC RATED B2436 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
14. COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.

CONDUIT SCHEDULE:

POWER SYSTEMS	
1	(1) 2" - POWER - SOFTBALL BATTING CASE
2	(1) 2" - SPARE
3	(1) 2" - POWER - SOFTBALL DUGOUT
4	(1) 2" - POWER - SOFTBALL BACKSTOP
5	(2) 2" - SPARE
6	(2) 2" - POWER - SOFTBALL DUGOUT
7	(1) 2" - POWER - SOFTBALL SCOREBOARD
8	(1) 2" - POWER - BASEBALL SCOREBOARD
9	(1) 2" - POWER - BASEBALL BATTING CASE
10	(1) 2" - POWER - BASEBALL BACKSTOP
11	(2) 2" - SPARE
12	(2) 2" - POWER - BASEBALL DUGOUT
13	(1) 2" - LIGHTING - SOFTBALL BATTING CASE
14	(1) 2" - LIGHTING - BASEBALL BATTING CASE
15	(1) 1/4" - POWER - IRRIGATION CONTROLLER
COMMUNICATION SYSTEMS	
20	(2) 2" - SIGNAL
21	(1) 2" - SIGNAL



KEY MAP

SHEET TITLE
ELECTRICAL ENLARGED SOFTBALL SITE PLAN - NEW

PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

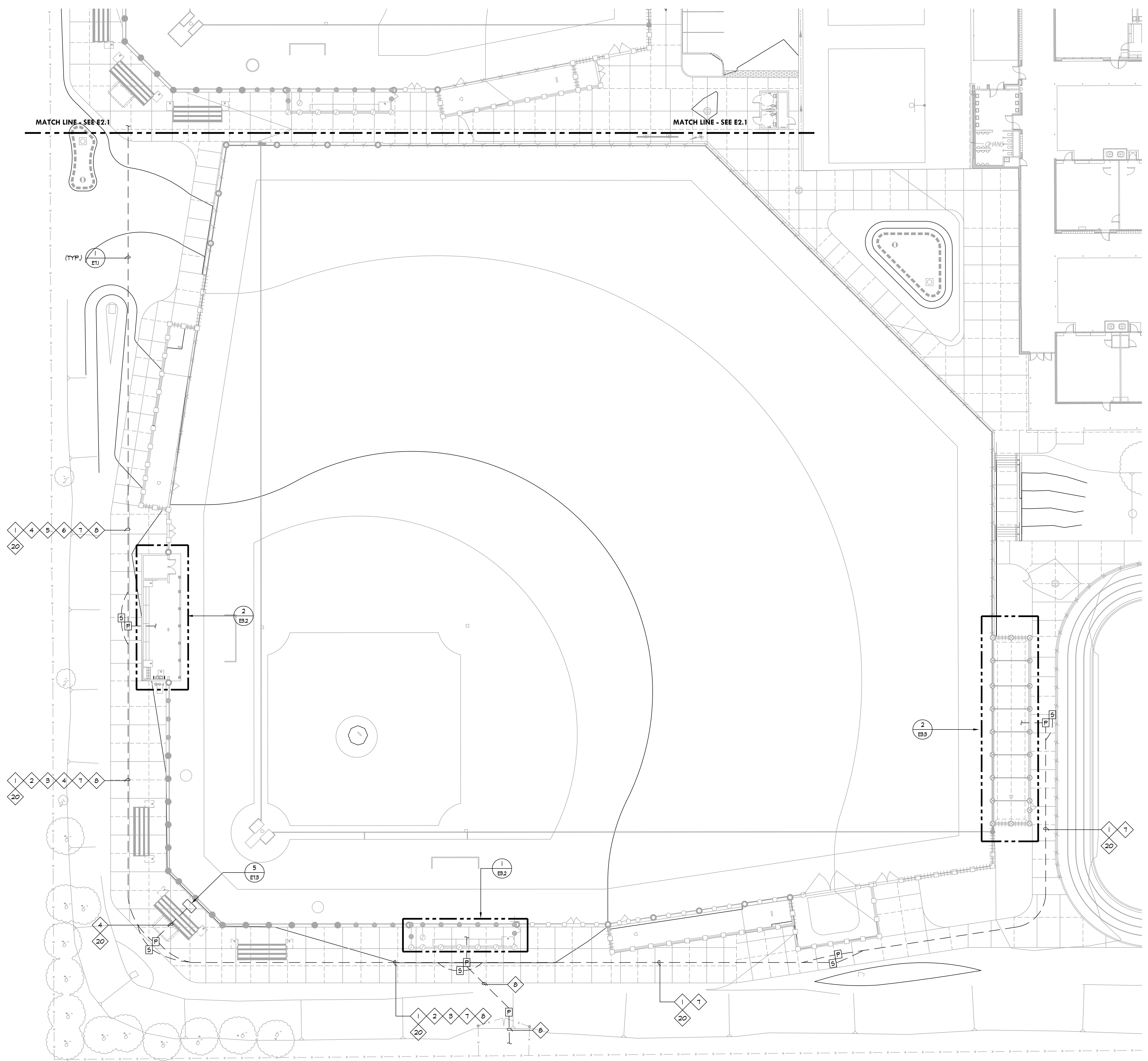
DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 03/18/2024	SCALE
PROJ. NO. 2309900	SHEET NO. E2.1



1 ELECTRICAL ENLARGED SOFTBALL SITE PLAN - NEW
E2.1 SCALE: 1" = 20'-0"

ALL DESIGN, CONSTRUCTION, AND/OR MATERIALS SPECIFICATIONS ARE THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, DEVELOPED, AND/OR ARE IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, CONSTRUCTION, OR MATERIALS SPECIFICATIONS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

ALL DESIGN, CONSTRUCTION, AND/OR MATERIALS SPECIFICATIONS ARE THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, DEVELOPED, AND WERE CREATED, EVALUATED, AND DEVELOPED FOR USE IN AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, CONSTRUCTION, OR MATERIALS SPECIFICATIONS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

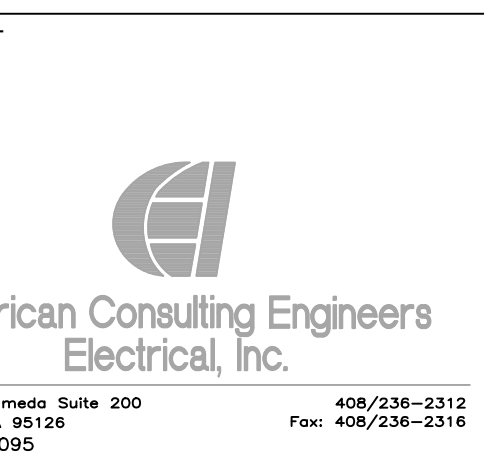
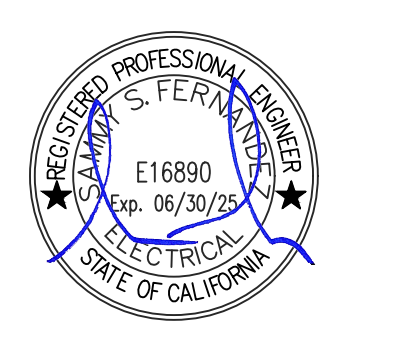


GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRACES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUITS ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN 'ELECTRICAL' PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN 'SIGNAL' BOXES AS REQUIRED BY CODE.
13. ALL PULL BOXES SHALL BE TRAFFIC RATED B2436 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
14. COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.

CONDUIT SCHEDULE:

POWER SYSTEMS	
1	(1) 2" - POWER - BASEBALL BATTING CAGE
2	(1) 2" - SPARE
3	(1) 2" - POWER - BASEBALL DUGOUT
4	(1) 2" - POWER - BASEBALL BACKSTOP
5	(2) 2" - SPARE
6	(2) 2" - POWER - BASEBALL DUGOUT
7	(1) 2" - LIGHTING - BASEBALL BATTING CAGE
8	(1) 1-1/4" - POWER - IRRIGATION CONTROLLER
COMMUNICATION SYSTEMS	
20	(2) 2" - SIGNAL
21	(1) 2" - SIGNAL



KEY MAP

SHEET TITLE
**ELECTRICAL ENLARGED
BASEBALL
SITE PLAN - NEW**

PROJECT NAME
**WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS**

PROJECT ADDRESS
**5022 58TH STREET
SACRAMENTO, CA 95820**

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

DRAWN BY: CN CHECKED BY: AA/SF

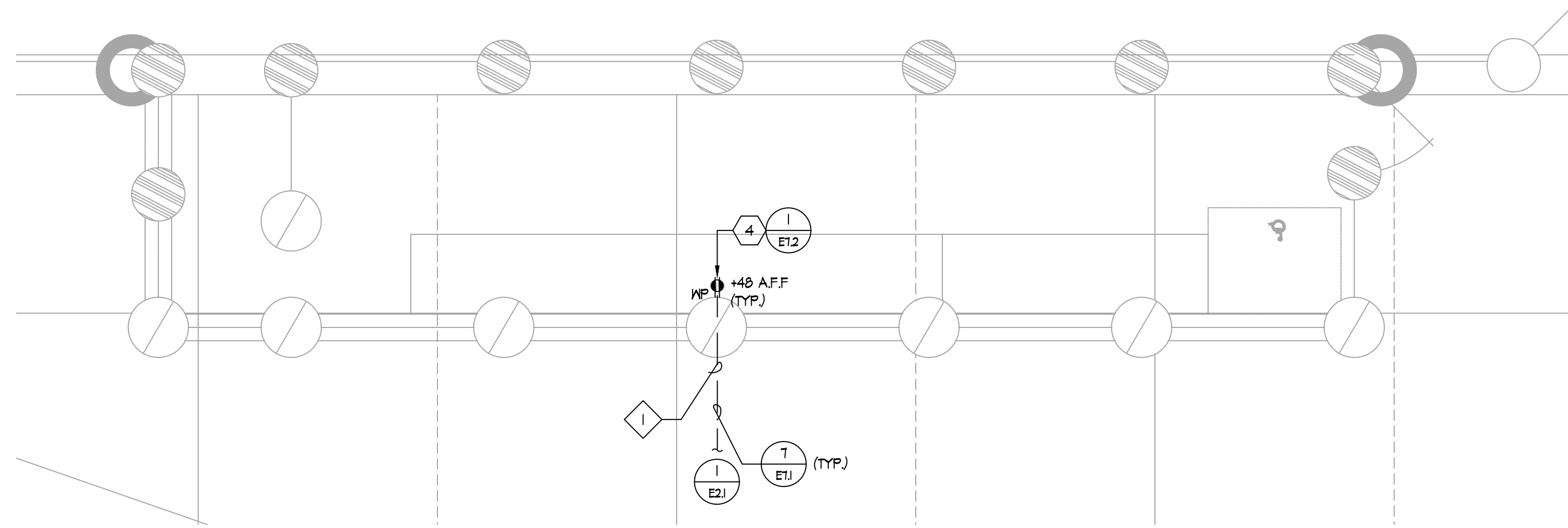
DATE ISSUED: 03/18/2024 SCALE: PROJ. NO. 2309900

SHEET NO. **E2.2**

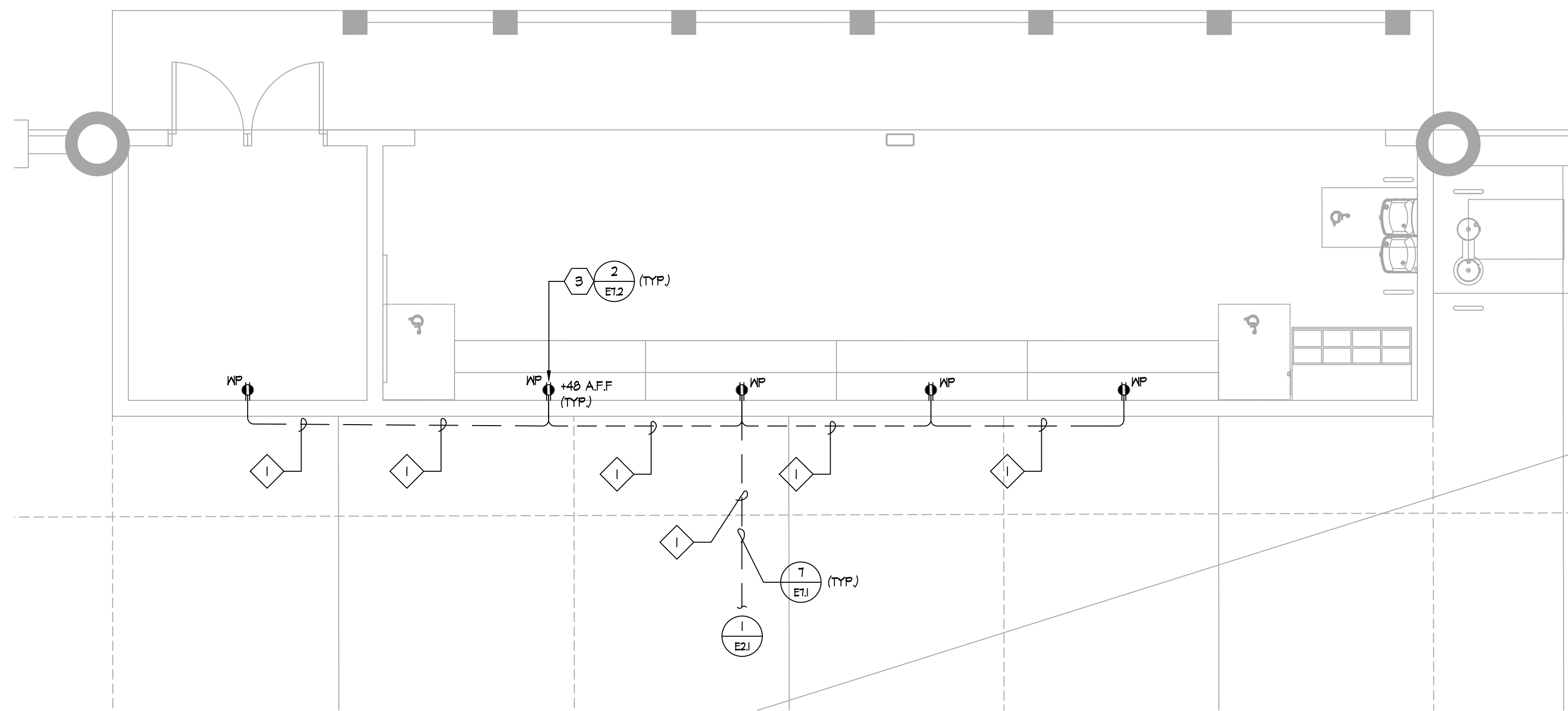
1 **ELECTRICAL ENLARGED BASEBALL SITE PLAN - NEW**
E2.2 SCALE: 1" = 20'-0"



ALL DESIGN, ENGINEERING, ARCHITECTURE, AND CONSTRUCTION SERVICES ARE THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, DEVELOPED, AND DELIVERED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, ENGINEERING, ARCHITECTURE, OR CONSTRUCTION SERVICES SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.



1
E3.1 **ELECTRICAL PLAN - FIRST BASE DUGOUT (SOFTBALL VISITOR)**
SCALE: 1/4" = 1'-0"



2
E3.1 **ELECTRICAL PLAN - THIRD BASE DUGOUT (SOFTBALL HOME)**
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL (E1) AND (E2) FOR TRENCHING REQUIREMENTS.
8. CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
10. ALL CONDUITS FOR OUTLETS AND DATA SHALL BE CONCEALED IN WALL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DUGOUT CONTRACTOR IN ADVANCE TO ENSURE THEY ARE AWARE OF CONDUITS TO BE CONCEALED IN CMU WALL.

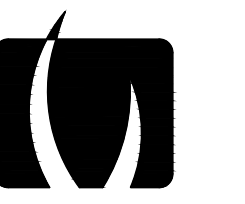
SHEET NOTES:

1. PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, NEMA-OR, LOCKABLE, BASKET BOX. TIMER SHALL BE WATSTOPPER 'TS-400' TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.
2. LIGHT FIXTURES AND CONDUIT SHALL BE ROUTED ALONG STRUCTURAL BEAM. CONTRACTOR SHALL COORDINATE INSTALLATION WITH ARCHITECT AND STRUCTURAL.
3. PROVIDE AND INSTALL WEATHERPROOF, (GFCI), EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. OUTLET SHALL BE INSTALLED FLUSH IN CMU WALL. CONTRACTOR SHALL COORDINATE WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
4. PROVIDE AND INSTALL WEATHERPROOF, (GFCI), EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.

CONDUIT SCHEDULE:

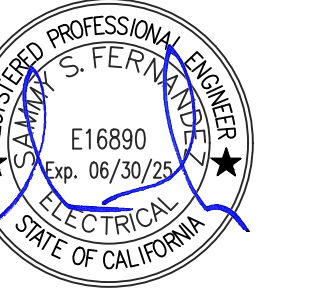
- 1 (N) 1 1/2" - RECEPTACLE

2



VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd., Suite 140
Folsom, CA 95630
tel: 916.413.6554
fax: 916.413.6525
www.VerdeDesign.com

STAMP



CONSULTANT



American Consulting Engineers
Electrical, Inc.
1550 The Alameda, Suite 200 San Jose, CA 95128
408/236-2312
408/236-2316
JOB #023095

KEY MAP

SHEET TITLE
ELECTRICAL PLAN DUGOUTS (SOFTBALL)

PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

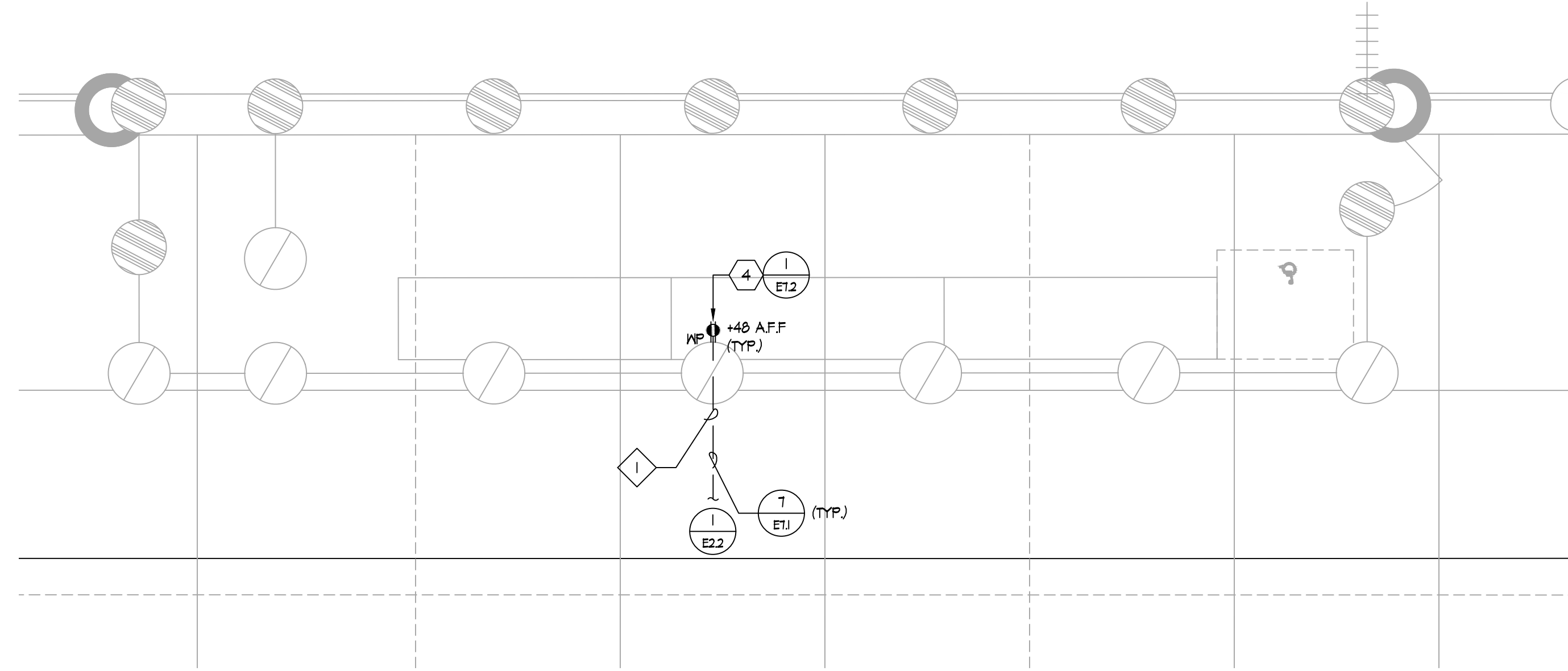
DRAWN BY: CN CHECKED BY: AA/SF

DATE ISSUED: 03/18/2024 SCALE

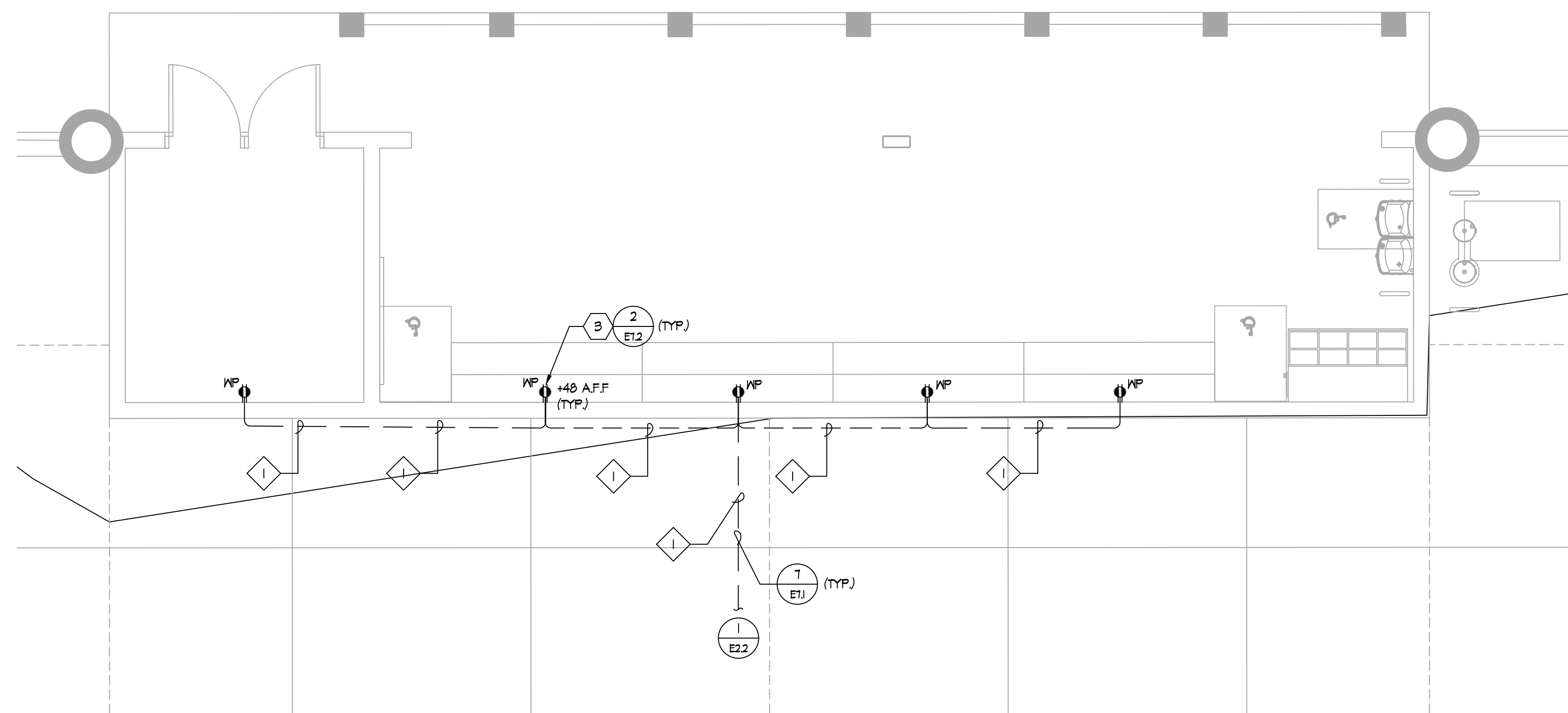
PROJ. NO. 2309900

SHEET NO. **E3.1**

ALL DESIGN, ENGINEERING, ARCHITECTURE, AND CONSTRUCTION SERVICES ARE THE PROPERTY OF VERDE DESIGN, INC. AND WILL BE PROVIDED TO THE CLIENT UNDER A PROFESSIONAL SERVICES AGREEMENT. NO PART OF THIS DESIGN, ENGINEERING, ARCHITECTURE, OR CONSTRUCTION SHALL BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.



1 ELECTRICAL PLAN - FIRST BASE DUGOUT (BASEBALL VISITOR)
E3.2 SCALE: 1/4" = 1'-0"



2 ELECTRICAL PLAN - THIRD BASE DUGOUT (BASEBALL HOME)
E3.2 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL (E1) AND (E11) FOR TRENCHING REQUIREMENTS.
8. CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
10. ALL CONDUITS FOR OUTLETS AND DATA SHALL BE CONCEALED IN WALL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DUGOUT CONTRACTOR IN ADVANCE TO ENSURE THEY ARE AWARE OF CONDUITS TO BE CONCEALED IN CMU WALL.

SHEET NOTES:

1. PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, NEMA-3R, LOCKABLE, GASKET BOX. TIMER SHALL BE WATSTOPPER 'TS-400' TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.
2. LIGHT FIXTURES AND CONDUIT SHALL BE ROUTED ALONG STRUCTURAL BEAM. CONTRACTOR SHALL COORDINATE INSTALLATION WITH ARCHITECT AND STRUCTURAL.
3. PROVIDE AND INSTALL WEATHERPROOF, (GFCI), EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. OUTLET SHALL BE INSTALLED FLUSH IN CMU WALL. CONTRACTOR SHALL COORDINATE WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-IN WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
4. PROVIDE AND INSTALL WEATHERPROOF, (GFCI), EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-IN WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.

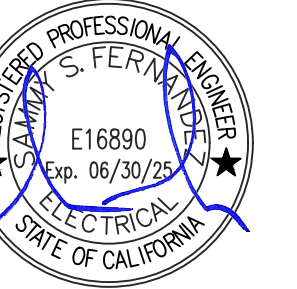
CONDUIT SCHEDULE:

- 1 (N) 1 1/2" - RECEPTACLE



VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd., Suite 1140
Folsom, CA 95630
tel: 916.413.6554
fax: 916.413.6525
www.VerdeDesign.com

STAMP



CONSULTANT



**American Consulting Engineers
Electrical, Inc.**
1550 The Alameda, Suite 200 San Jose, CA 95126
408/236-2312 Fax: 408/236-2316
JOB #023095

KEY MAP

SHEET TITLE
**ELECTRICAL PLAN
DUGOUTS (BASEBALL)**

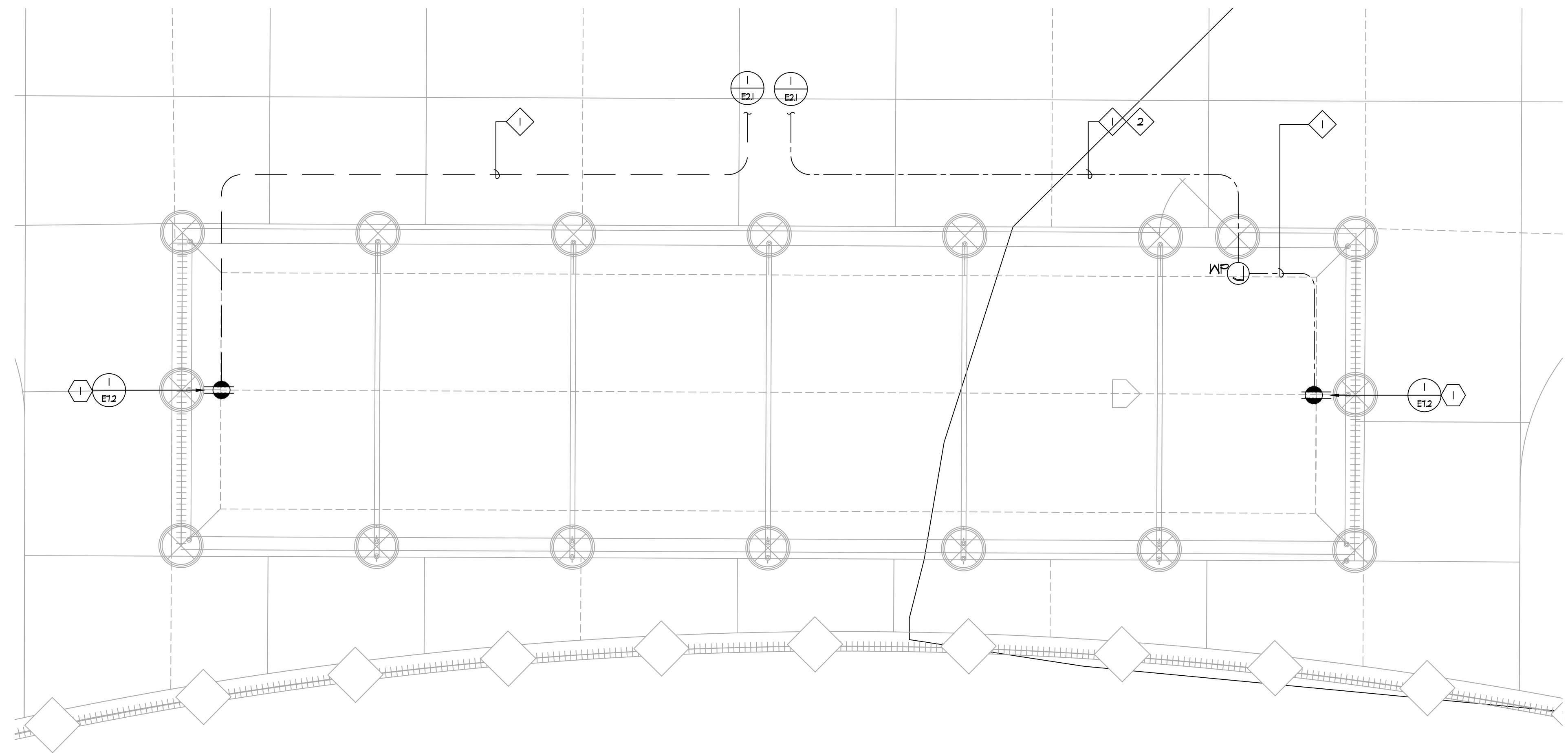
PROJECT NAME
**WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS**

PROJECT ADDRESS
**5022 58TH STREET
SACRAMENTO, CA 95820**

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 03/18/2024	SCALE
PROJ. NO. 2309900	
SHEET NO. E3.2	



GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL 1/E1.1 FOR TRENCHING REQUIREMENTS.
8. EXPOSED CONDUIT FOR BATTING CAGE LIGHTING SHALL BE RIGID STEEL CONDUIT.
9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.

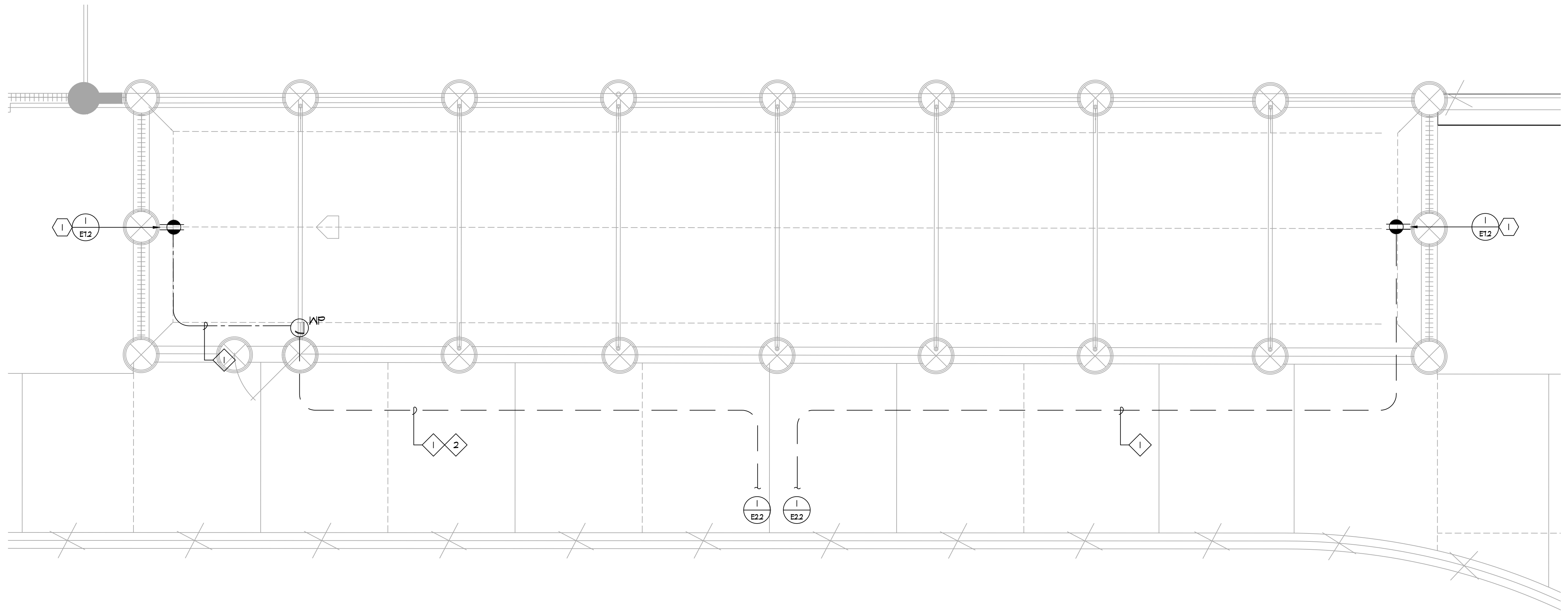
SHEET NOTES:

- 1 PROVIDE AND INSTALL WEATHERPROOF, 6FGI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.

CONDUIT SCHEDULE:

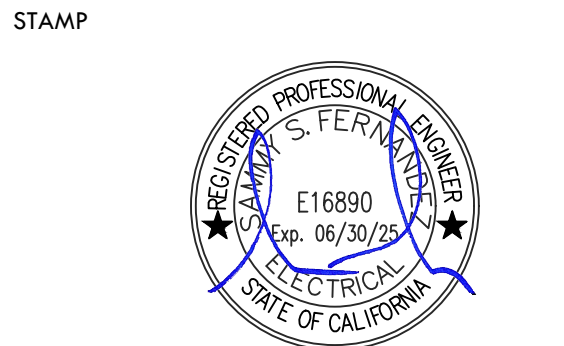
- 1 (N) 1 1/2" - RECEPTACLE - BATTING CAGE
 2 (N) 1 1/2" - LIGHTING - BATTING CAGE

1 ELECTRICAL FLOOR PLAN - BATTING CAGE (SOFTBALL)
 E3.3 SCALE: 1/4" = 1'-0"



2 ELECTRICAL FLOOR PLAN - BATTING CAGE (BASEBALL)
 E3.3 SCALE: 1/4" = 1'-0"

VERDE DESIGN
 LANDSCAPE ARCHITECTURE
 CIVIL ENGINEERING
 SPORT PLANNING & DESIGN
 1843 Iron Point Rd., Suite 140
 Folsom, CA 95630
 tel: 916.413.6554
 fax: 916.413.6525
 www.VerdeDesign.com



**American Consulting Engineers
 Electrical, Inc.**
 1550 The Armetts Suite 200 San Jose, CA 95128
 408/236-2312 Fax: 408/236-2316
 JOB #023095

**ELECTRICAL PLAN
 - BATTING CAGE -
 BASEBALL & SOFTBALL**

**WEST CAMPUS
 HIGH SCHOOL
 BASEBALL & SOFTBALL
 IMPROVEMENTS**

**5022 58TH STREET
 SACRAMENTO, CA 95820**

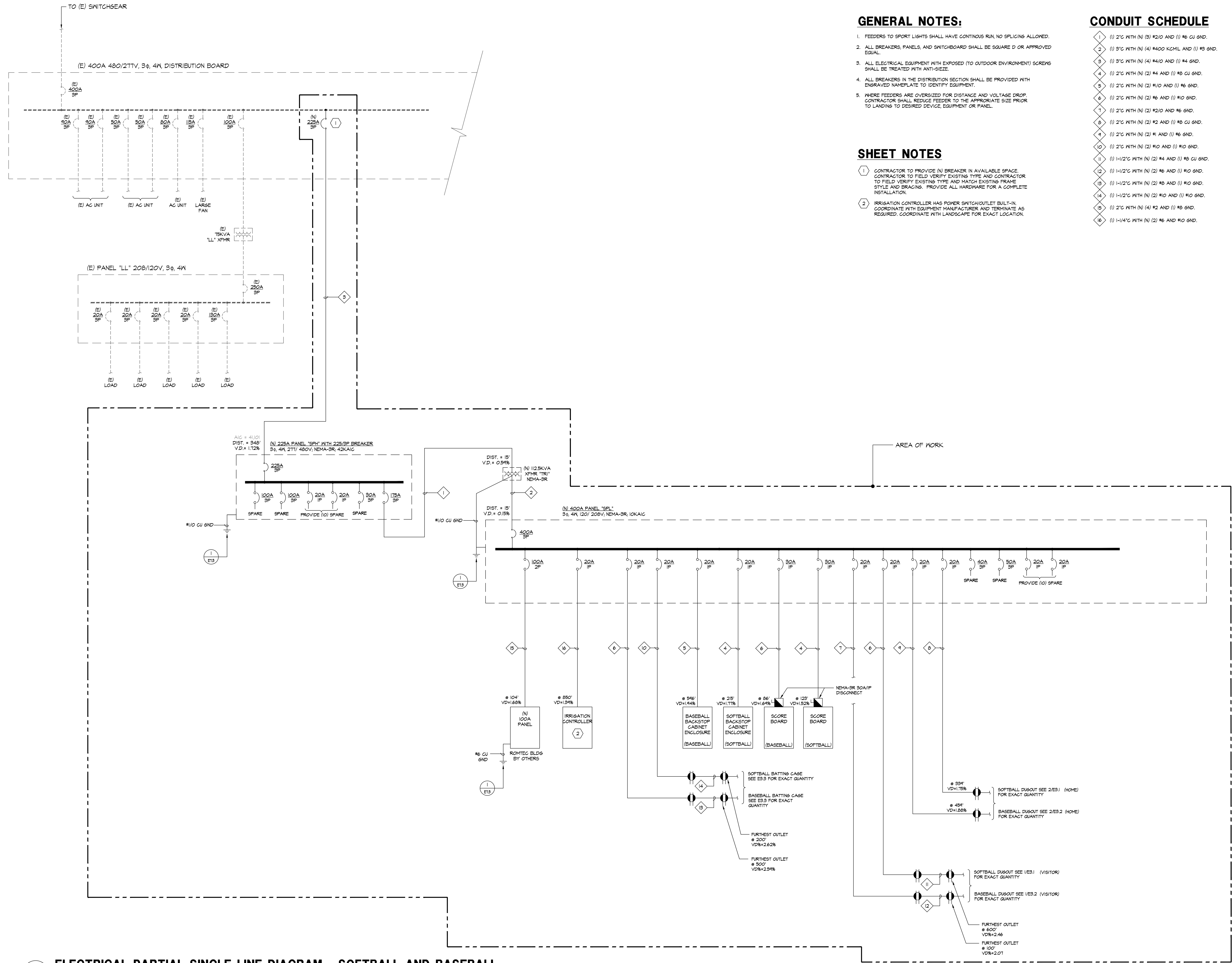
SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 03/18/2024	SCALE
PROJ. NO. 2309900	
SHEET NO. E3.3	

ALL DESIGN, ENGINEERING, ARCHITECTURE, AND CONSTRUCTION DOCUMENTS ARE THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, DEVELOPED, AND DESIGNED FOR USE IN AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, ENGINEERING, ARCHITECTURE, OR CONSTRUCTION DOCUMENTS OR ANY PART THEREOF SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.

ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS AND FOR PROVIDING ALL NECESSARY INFORMATION TO THE DESIGNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS AND FOR PROVIDING ALL NECESSARY INFORMATION TO THE DESIGNER.



GENERAL NOTES:

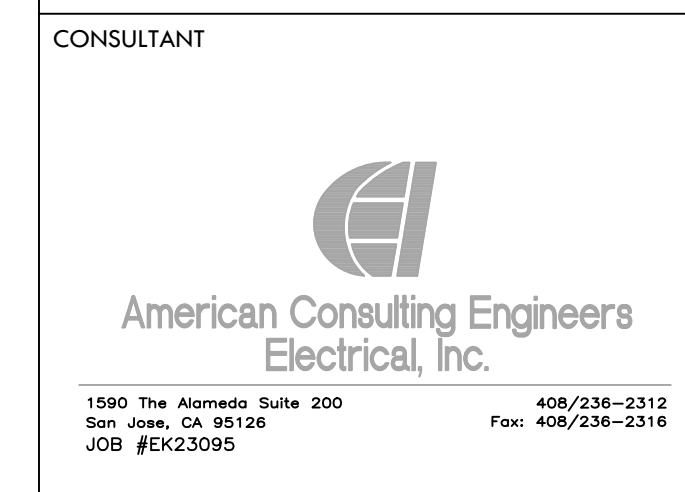
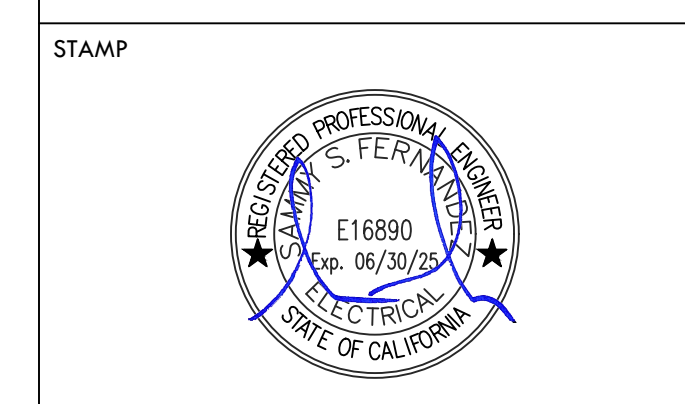
- FEEDERS TO SPORT LIGHTS SHALL HAVE CONTINUOUS RUN, NO SPLICING ALLOWED.
- ALL BREAKERS, PANELS, AND SWITCHBOARD SHALL BE SQUARE D OR APPROVED EQUAL.
- ALL ELECTRICAL EQUIPMENT WITH EXPOSED (TO OUTDOOR ENVIRONMENT) SCREWS SHALL BE TREATED WITH ANTI-SIZE.
- ALL BREAKERS IN THE DISTRIBUTION SECTION SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE TO IDENTIFY EQUIPMENT.
- WHERE FEEDERS ARE OVERSIZED FOR DISTANCE AND VOLTAGE DROP, CONTRACTOR SHALL REDUCE FEEDER TO THE APPROPRIATE SIZE PRIOR TO LANDING TO DESIRED DEVICE, EQUIPMENT OR PANEL.

SHEET NOTES

- CONTRACTOR TO PROVIDE (N) BREAKER IN AVAILABLE SPACE. CONTRACTOR TO FIELD VERIFY EXISTING TYPE AND CONTRACTOR TO FIELD VERIFY EXISTING TYPE AND MATCH EXISTING FRAME STYLE AND BRACINGS. PROVIDE ALL HARDWARE FOR A COMPLETE INSTALLATION.
- IRRIGATION CONTROLLER HAS POWER SWITCH/OUTLET BUILT-IN. COORDINATE WITH EQUIPMENT MANUFACTURER AND TERMINATE AS REQUIRED. COORDINATE WITH LANDSCAPE FOR EXACT LOCATION.

CONDUIT SCHEDULE

- | | |
|----|--|
| 1 | (1) 2" C WITH (N) (3) #2/O AND (1) #6 CU GND. |
| 2 | (1) 3" C WITH (N) (4) #4/O KCMIL AND (1) #6 GND. |
| 3 | (1) 3" C WITH (N) (4) #4/O AND (1) #4 GND. |
| 4 | (1) 2" C WITH (N) (2) #4 AND (1) #6 CU GND. |
| 5 | (1) 2" C WITH (N) (2) #1/O AND (1) #6 GND. |
| 6 | (1) 2" C WITH (N) (2) #6 AND (1) #1/O GND. |
| 7 | (1) 2" C WITH (N) (2) #2/O AND #6 GND. |
| 8 | (1) 2" C WITH (N) (2) #2 AND (1) #6 CU GND. |
| 9 | (1) 2" C WITH (N) (2) #1 AND (1) #6 GND. |
| 10 | (1) 2" C WITH (N) (2) #1/O AND (1) #1/O GND. |
| 11 | (1) 1-1/2" C WITH (N) (2) #4 AND (1) #6 CU GND. |
| 12 | (1) 1-1/2" C WITH (N) (2) #6 AND (1) #1/O GND. |
| 13 | (1) 1-1/2" C WITH (N) (2) #6 AND (1) #1/O GND. |
| 14 | (1) 1-1/2" C WITH (N) (2) #1/O AND (1) #1/O GND. |
| 15 | (1) 2" C WITH (N) (4) #2 AND (1) #6 GND. |
| 16 | (1) 1-1/4" C WITH (N) (2) #6 AND #1/O GND. |



SHEET TITLE
ELECTRICAL PARTIAL SINGLE LINE DIAGRAM

PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

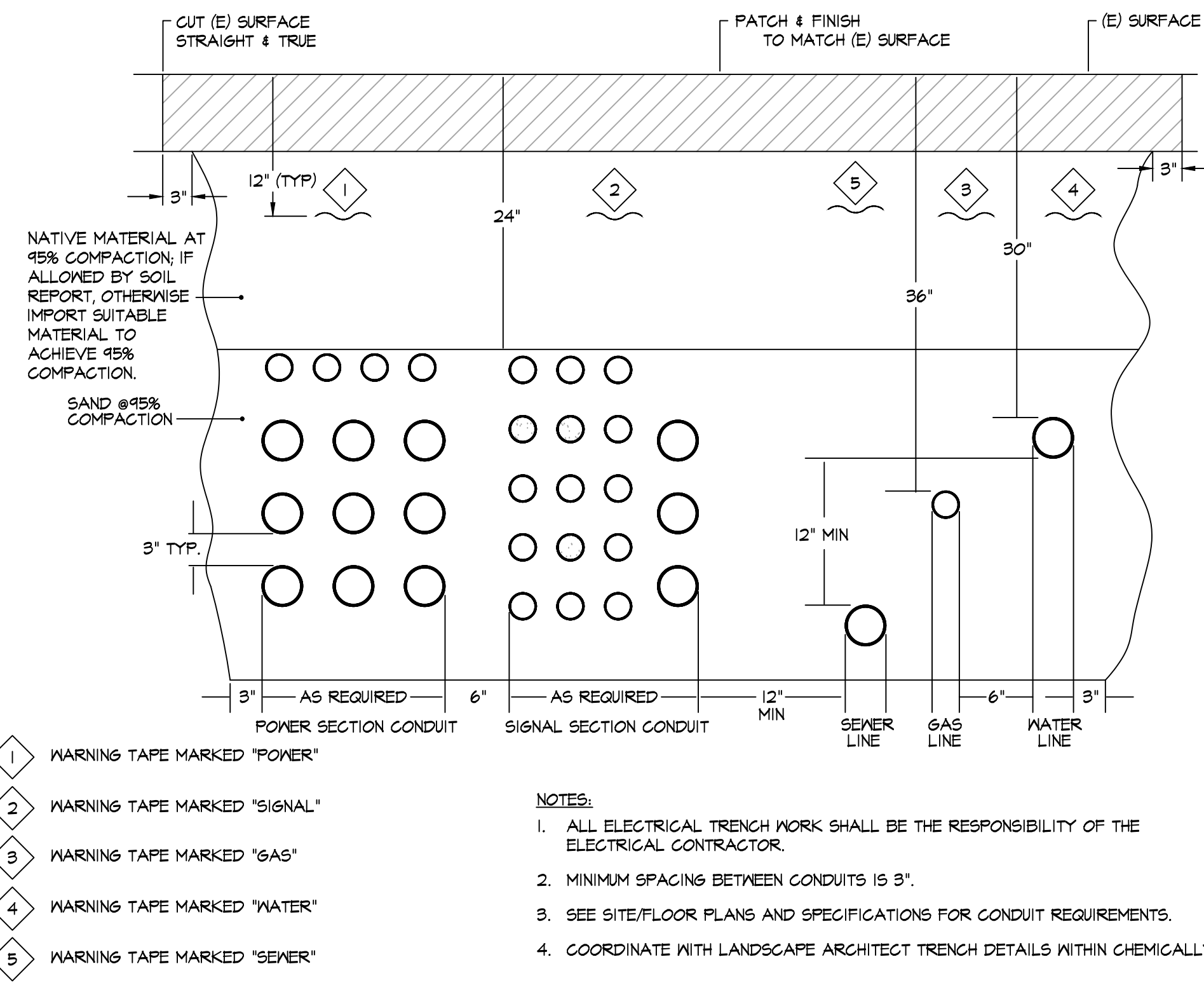
PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

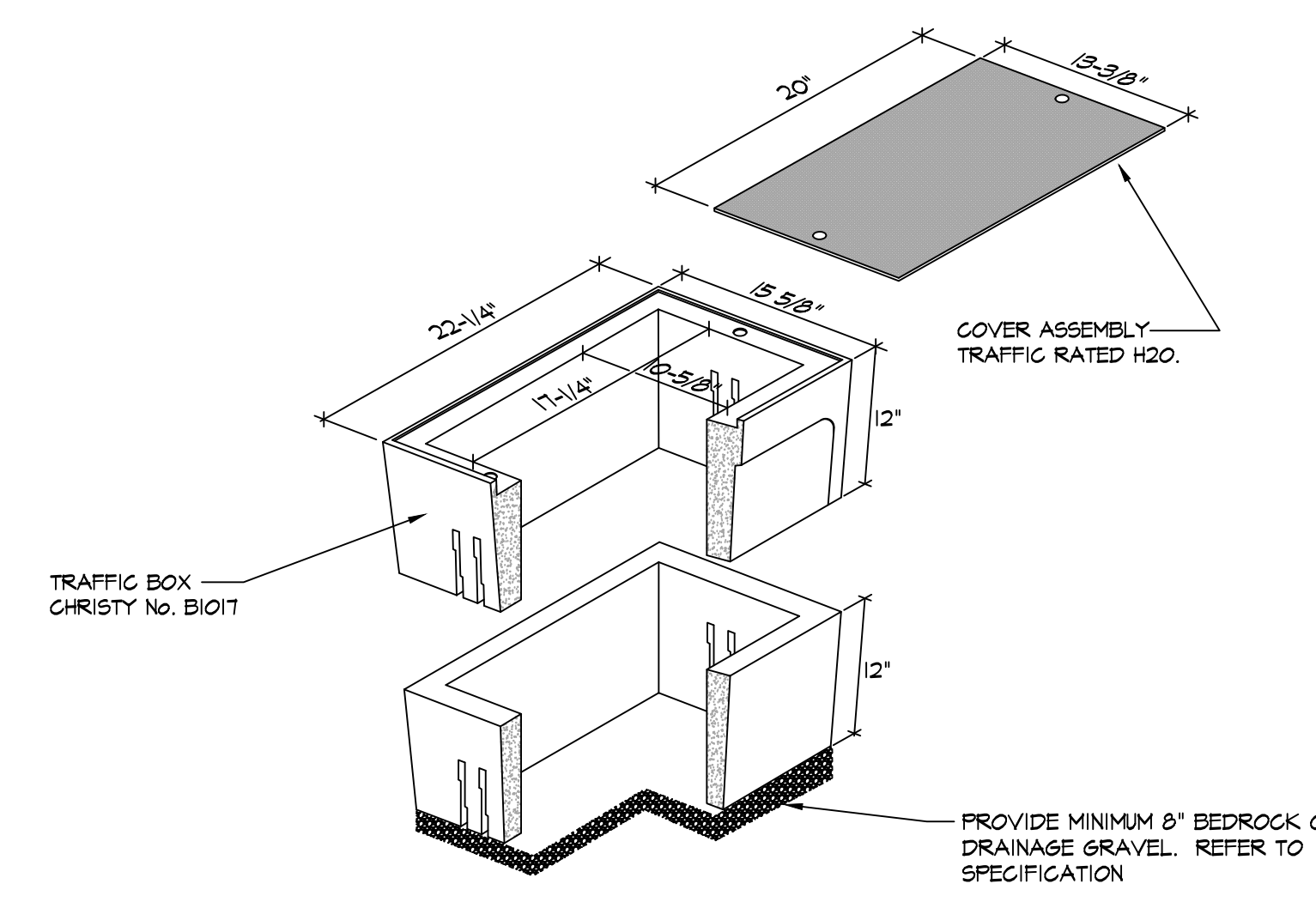
NO.	REVISIONS	DATE

DRAWN BY CN **CHECKED BY** AA/SF
DATE ISSUED 03/18/2024 **SCALE**
PROJ. NO. 2309900

1 ELECTRICAL PARTIAL SINGLE LINE DIAGRAM - SOFTBALL AND BASEBALL
E5.1 NOT TO SCALE



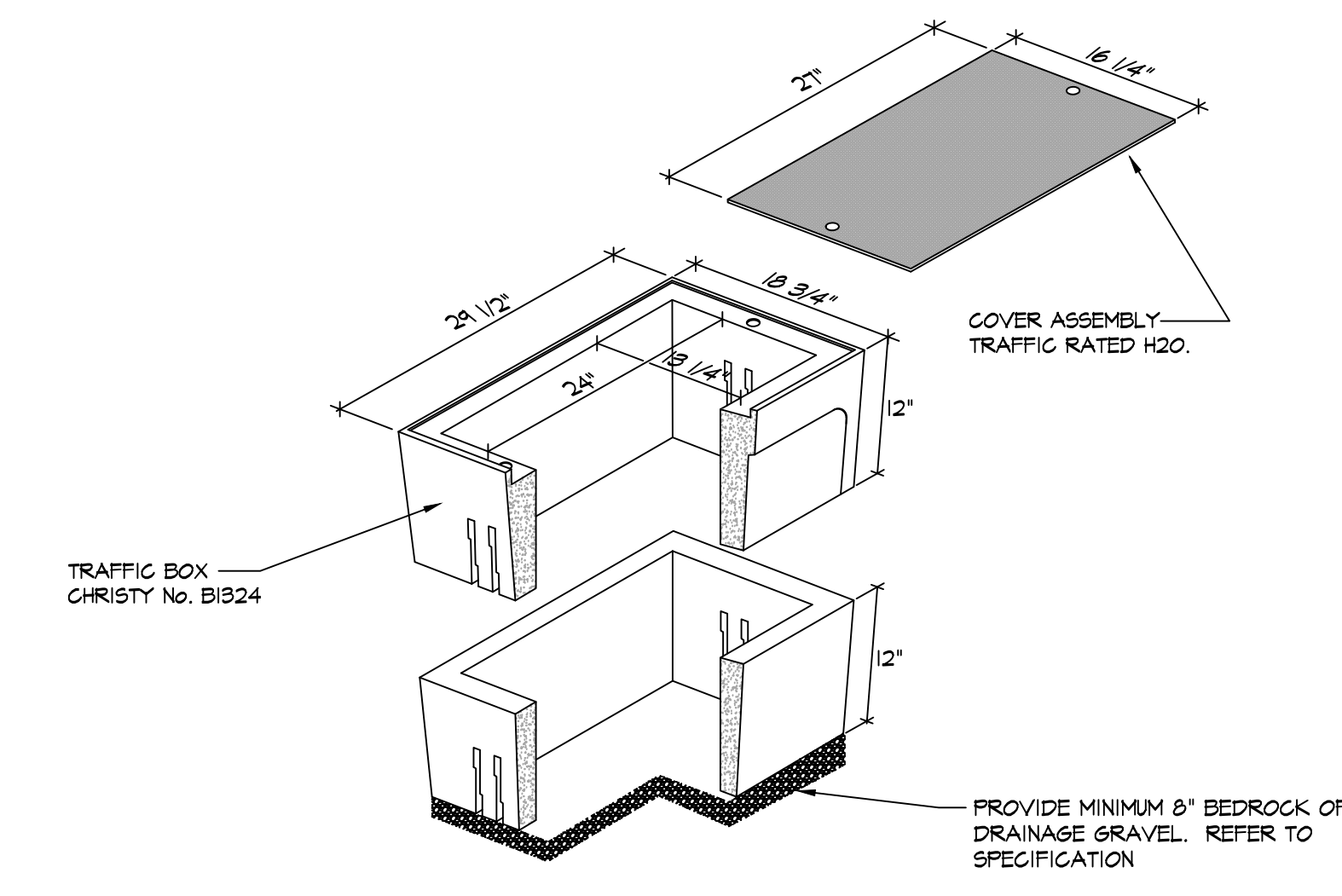
1 TYPICAL JOINT TRENCH & DUCT BANK DETAIL
E7.1 NOT TO SCALE



2 B1017 ELECTRICAL VAULT
E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

NOTES:

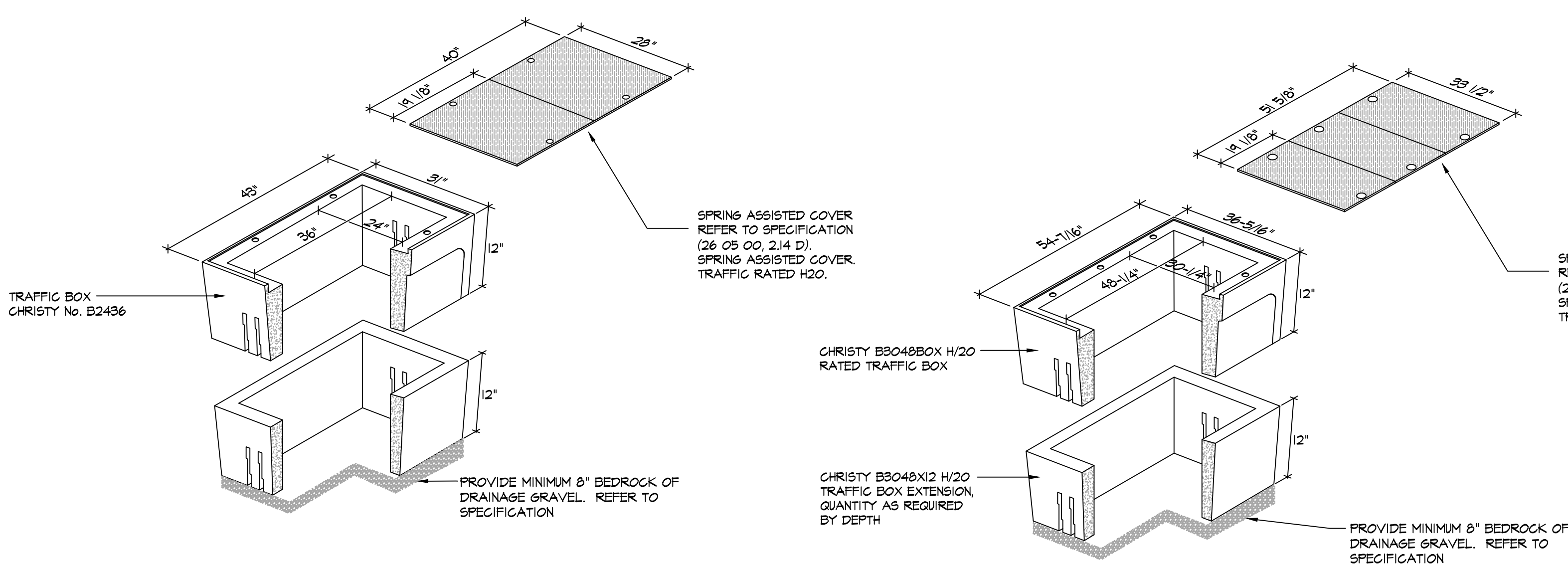
1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
7. ALL VAULT IN TRAFFIC LANES SHALL BE H520-44 RATED WITH TOP OF COVER LABELED 'H520-44' RATINGS.



3 B1324 ELECTRICAL VAULT
E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
7. ALL VAULT IN TRAFFIC LANES SHALL BE H520-44 RATED WITH TOP OF COVER LABELED 'H520-44' RATINGS.

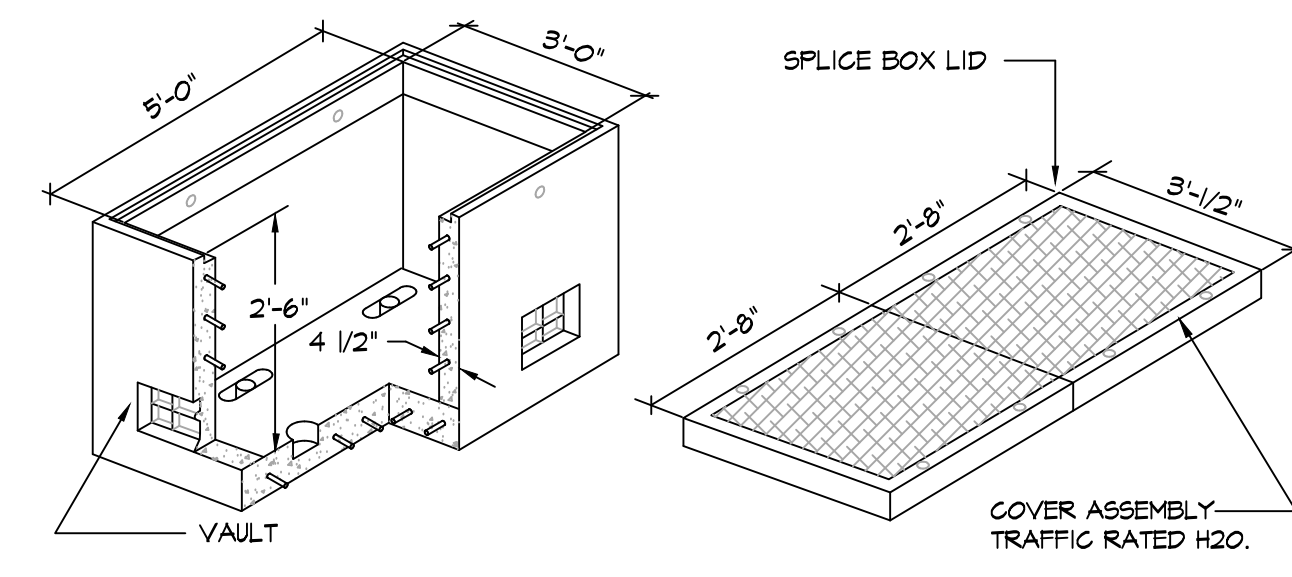


4 B2436 ELECTRICAL VAULT
E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

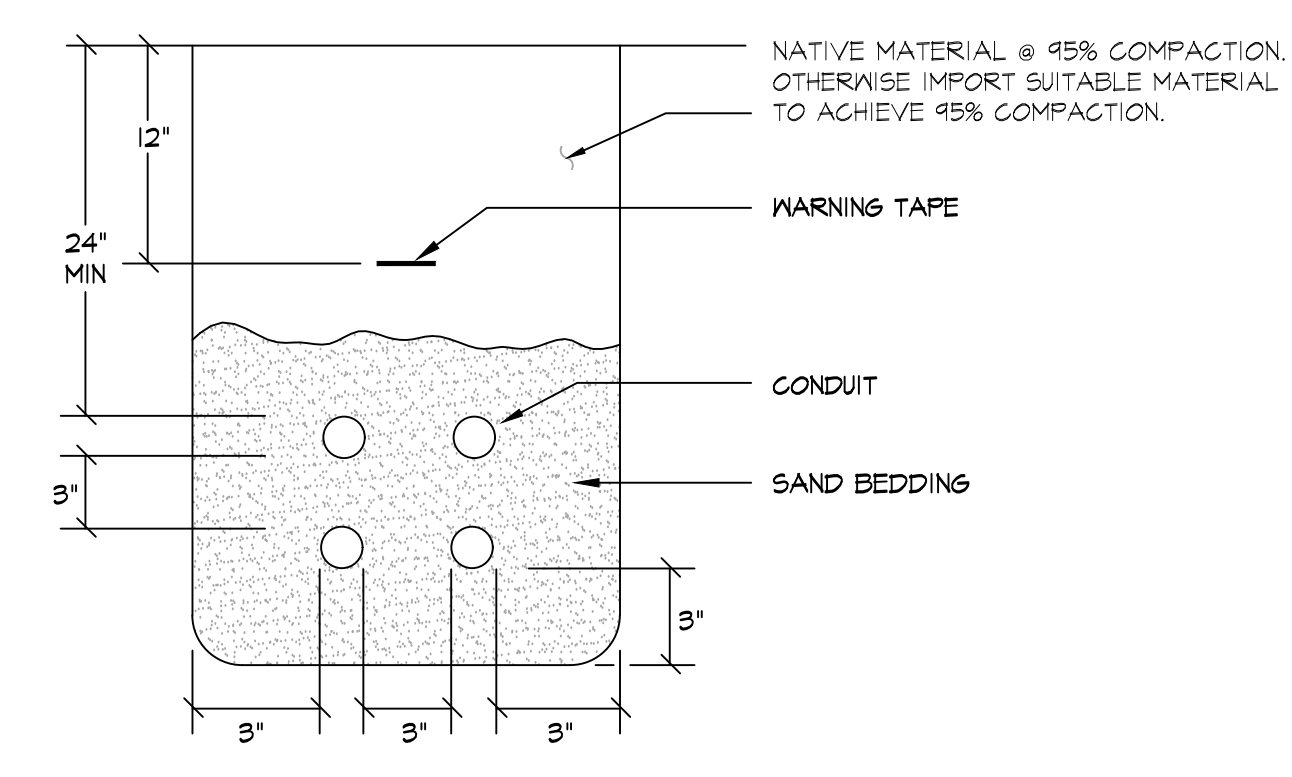
5 B3048 TRAFFIC BOX DETAIL
E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
7. ALL VAULT IN TRAFFIC LANES SHALL BE H520-44 RATED WITH TOP OF COVER LABELED 'H520-44' RATINGS.



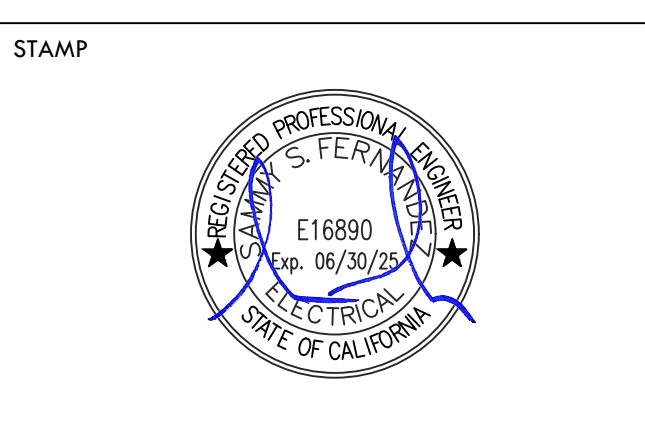
6 3' X 5' ELECTRICAL VAULT
E7.1 NOT TO SCALE



7 TYPICAL TRENCH DETAIL
E7.1 NOT TO SCALE

NOTES:

1. COORDINATE WITH LANDSCAPE ARCHITECT TRENCH DETAILS WITHIN CHEMICALLY TREATED AREAS.



KEY MAP

SHEET TITLE
ELECTRICAL DETAILS

PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

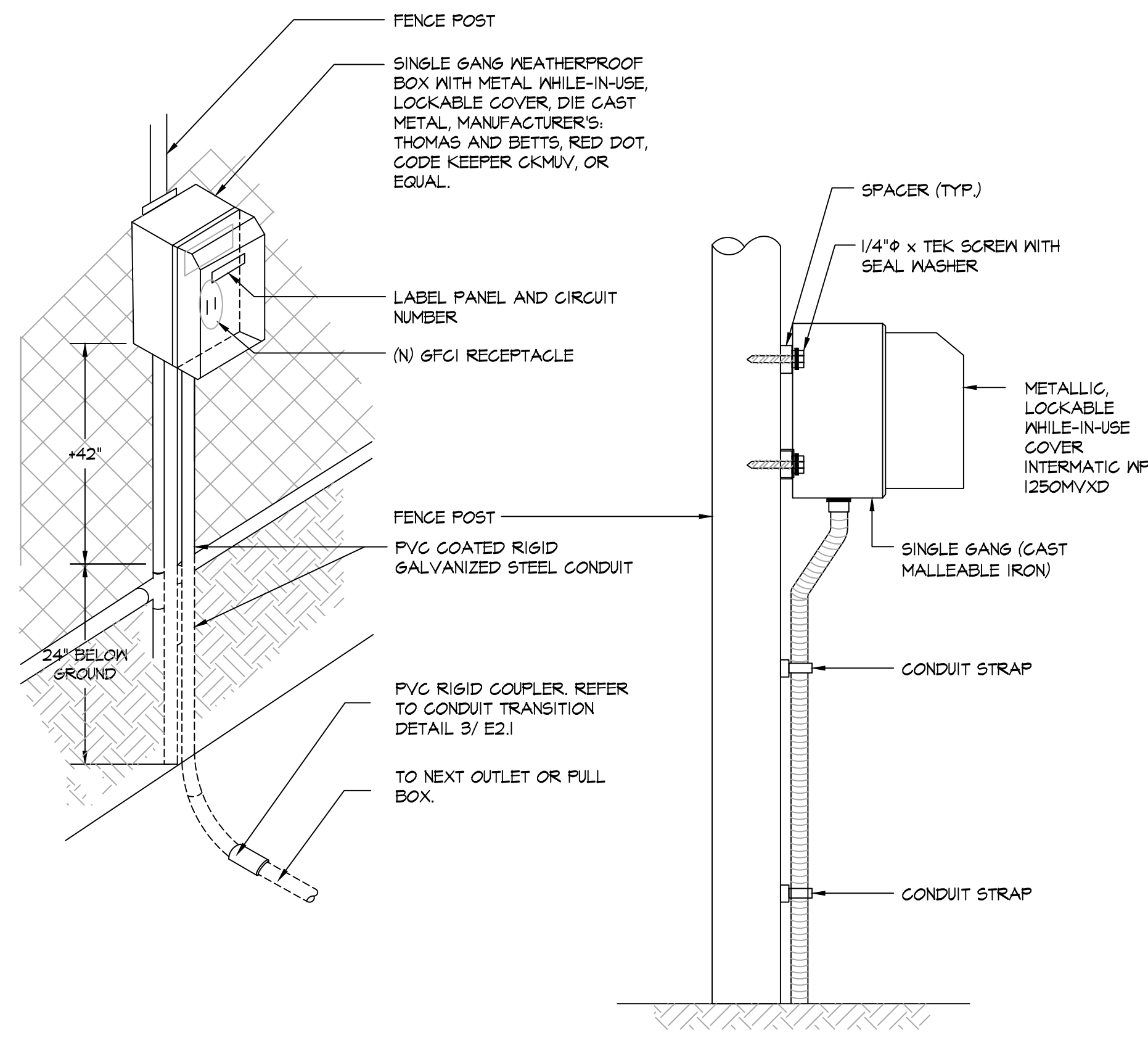
PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

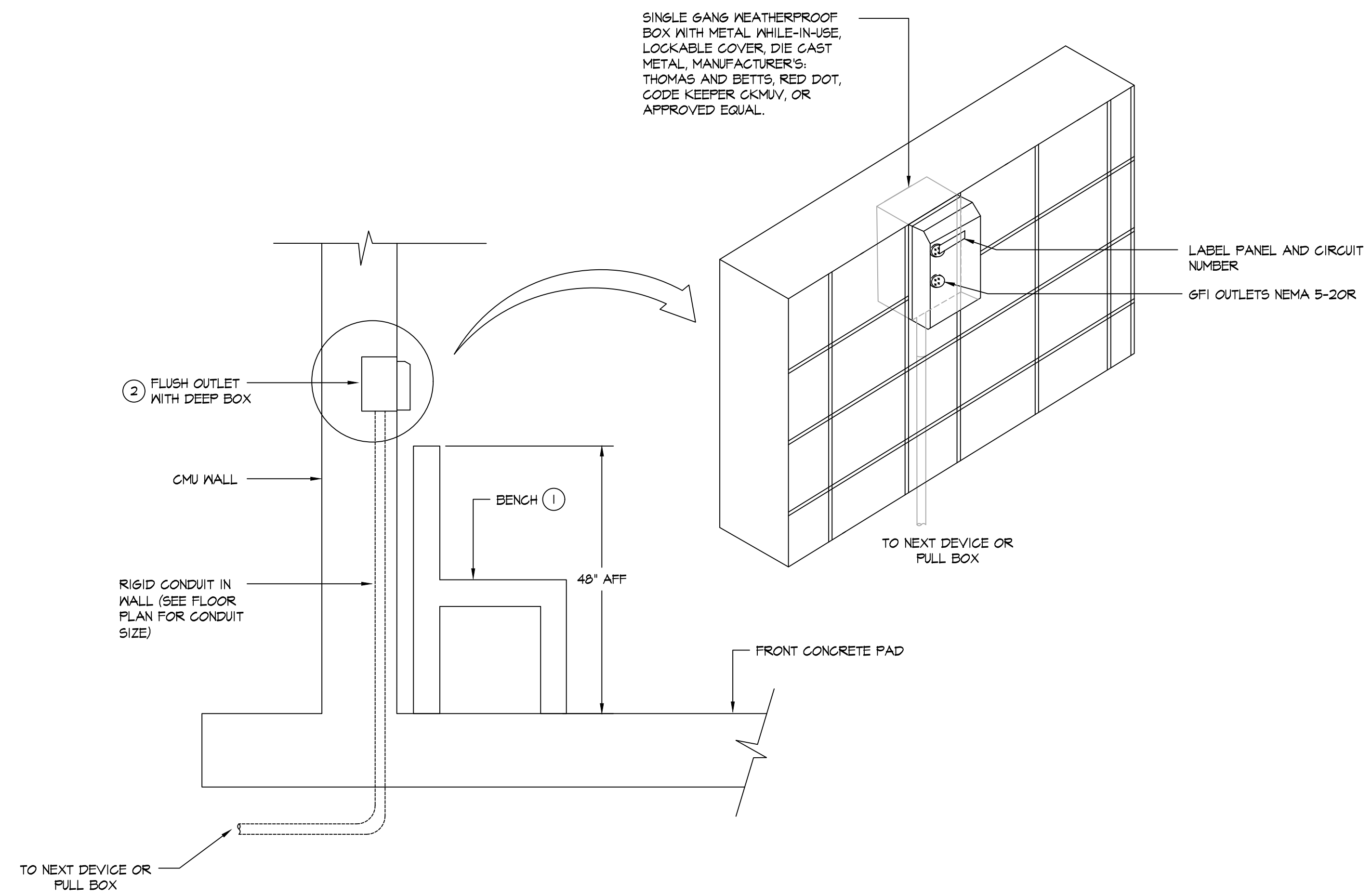
NO.	REVISIONS	DATE

DRAWN BY: CN
CHECKED BY: AA/SF
DATE ISSUED: 03/18/2024
SCALE: AS NOTED
PROJ. NO.: 2309900
SHEET NO.: **E7.1** OF
ELECTRICAL DETAILS

ALL DESIGN REQUIREMENTS, INCLUDING MATERIALS, SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.



1 RECEPTACLE MOUNTING
E7.2 NOT TO SCALE



- NOTE:**
- CONTRACTOR TO COORDINATE WITH LANDSCAPE DRAWINGS TO FIND EXACT HEIGHT OF BENCH PRIOR TO ROUGH IN.
 - COORDINATE WITH DUGOUT CONTRACTOR (N) CMU WALL INSTALL BOXES AND CONDUIT CONCEALED IN WALL.

2 DUGOUT RECEPTACLE MOUNTING
E7.2 NOT TO SCALE

ALL DESIGN, DIMENSIONS, AND MATERIALS ARE THE PROPERTY OF VERDE DESIGN, INC. AND ARE NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC. VERDE DESIGN, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE, LOSS, OR INJURY THAT MAY OCCUR AS A RESULT OF THE USE OF THIS DRAWING.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
18443 Iron Point Rd., Suite 140
Folsom, CA 95630
tel: 916.413.6554
fax: 916.413.6525
www.VerdeDesigninc.com

STAMP

 REGISTERED PROFESSIONAL ENGINEER
 S. FERTY
 E16800
 Exp. 06/30/25
 ELECTRICAL
 STATE OF CALIFORNIA

CONSULTANT

 American Consulting Engineers
 Electrical, Inc.
 1500 The Armetts Suite 200
 San Jose, CA 95128
 (408) 236-2312
 408/236-2312
 (408) 236-2312

KEY MAP

SHEET TITLE
ELECTRICAL DETAILS

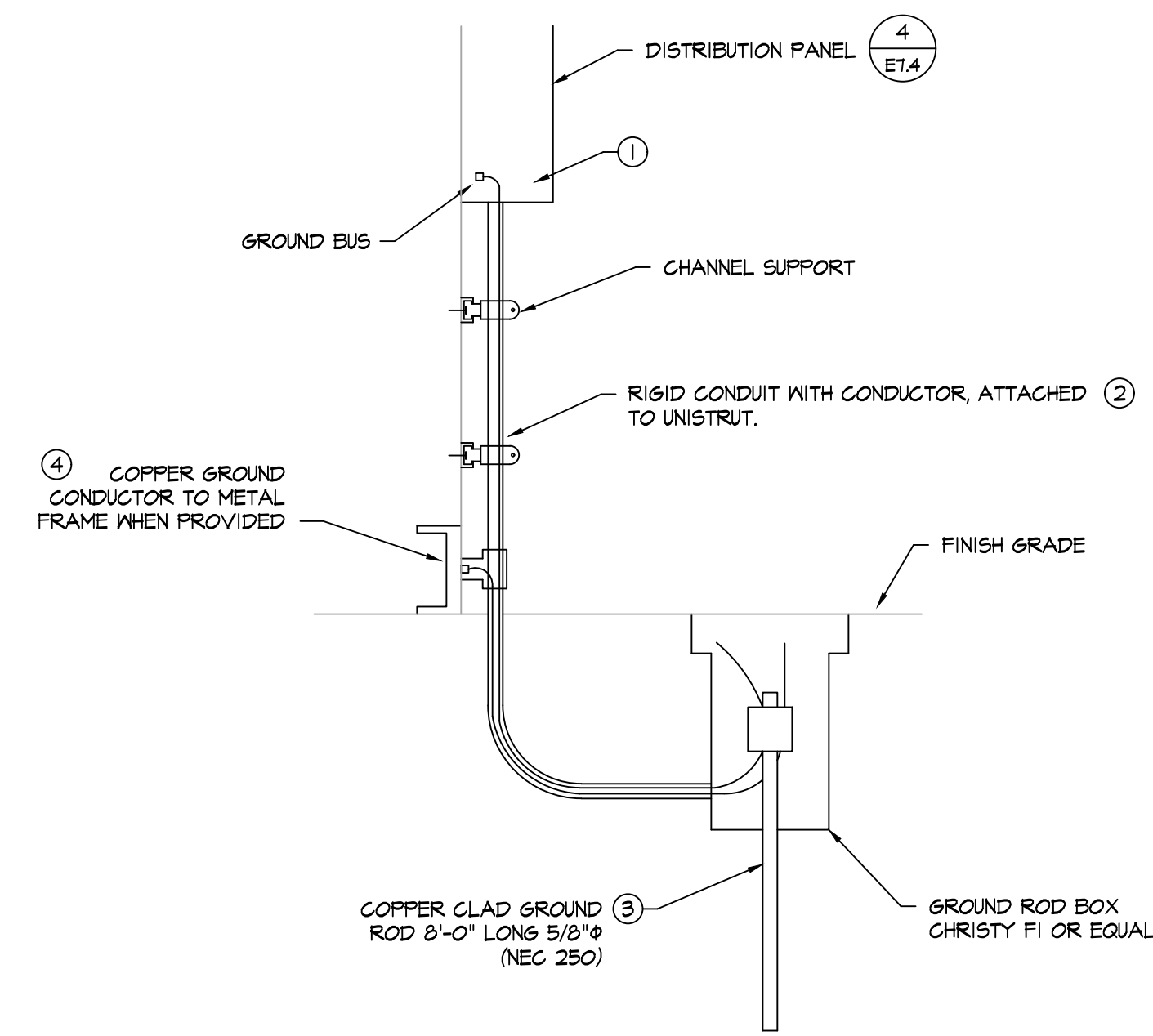
PROJECT NAME
**WEST CAMPUS
 HIGH SCHOOL
 BASEBALL & SOFTBALL
 IMPROVEMENTS**

PROJECT ADDRESS
**5022 58TH STREET
 SACRAMENTO, CA 95820**

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE
△		
△		
△		
△		
△		

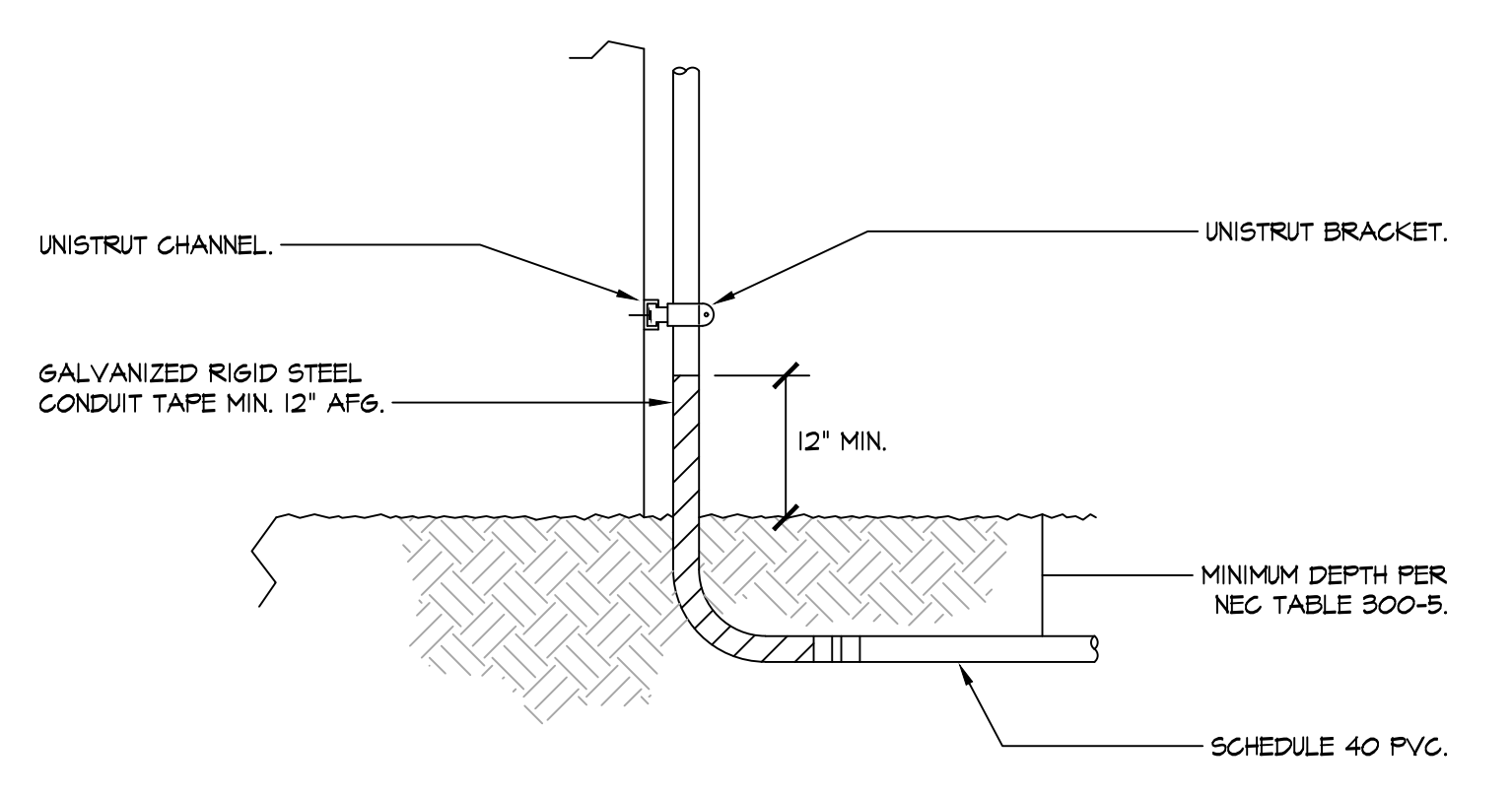
DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 03/18/2024	SCALE
PROJ. NO. 2309900	
SHEET NO. E7.2	OF



- ① SIZE OF CONDUCTORS SHALL COMPLY WITH NEG TABLE 250-66
- ② BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEG 250-50). IN ADDITION TO DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO NEAREST METALLIC COLD WATER PIPE (NEG 250-50)
- ③ CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AS REQUIRED (NEG 250-56)
- ④ ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING)

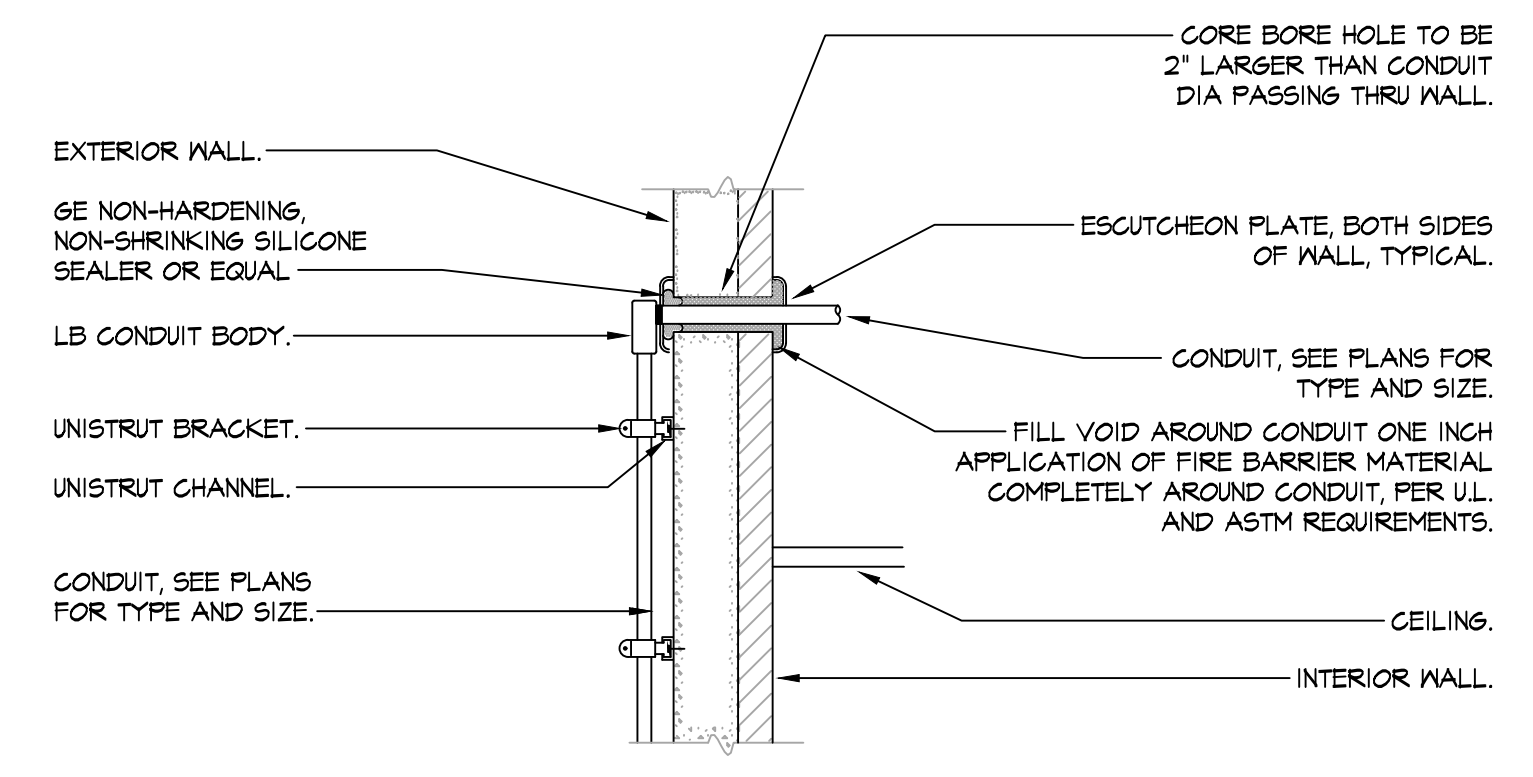
1 TYPICAL GROUND INSTALLATION
E7.3 NOT TO SCALE

NOTE: GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY.



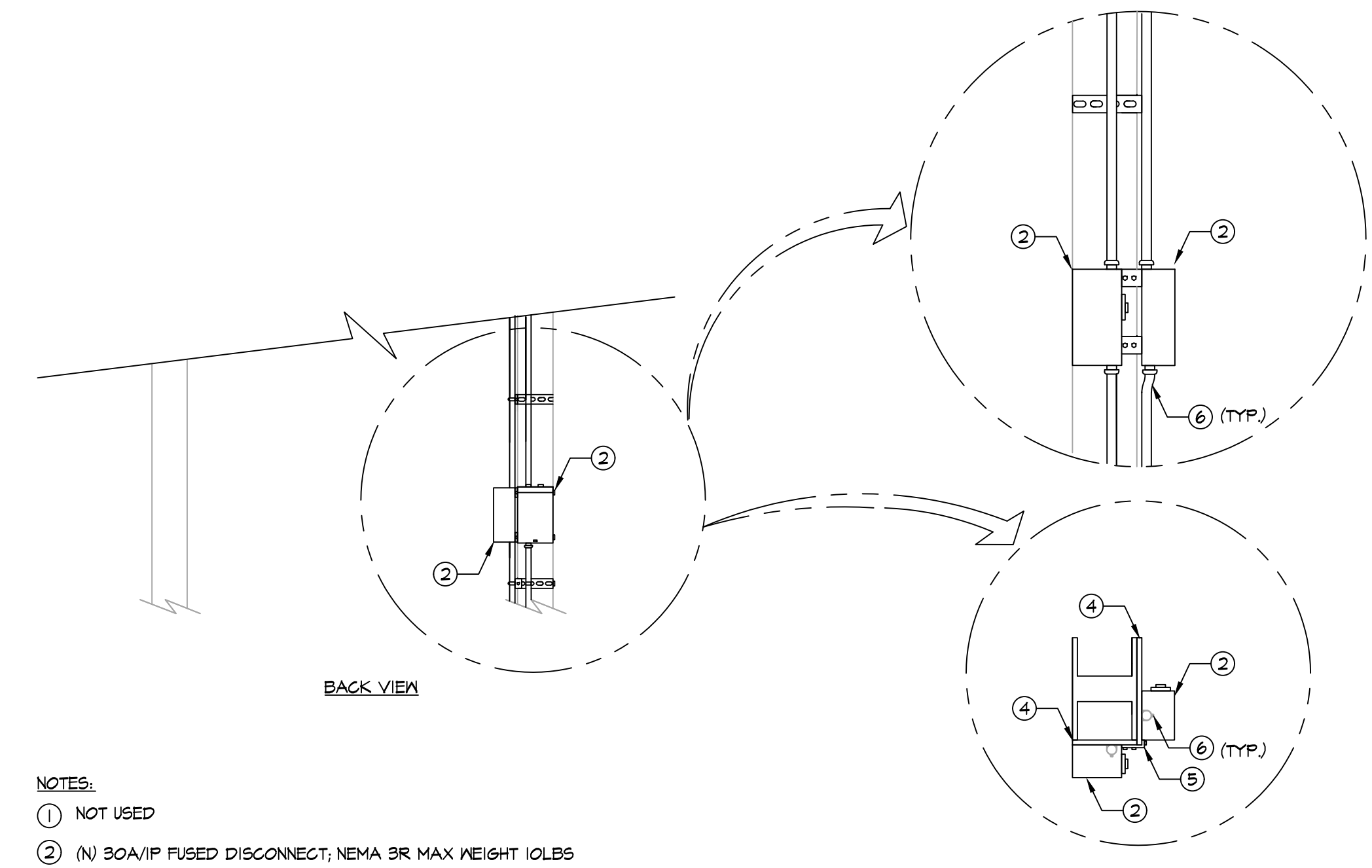
- NOTE:**
- 1. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 3/4" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
 - 2. FOR CONCRETE WALL: 1/2" HILTI KWIK-BOLT T22 STAINLESS STEEL ANCHOR (ICC ESR-4266) WITH MINIMUM EMBEDMENT OF 3-5/8" IN 4" DEEP HOLE. 1/2" ANCHORS SHALL BE TORQUE-TESTED TO 40 FT-LBS, WHICH MUST BE ATTAINED WITHIN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. INSTALL ANCHOR PER CGS (HICAS), AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL OF (4) PER SECTION)

2 UNDERGROUND CONDUIT RISER DETAIL
E7.3 NOT TO SCALE



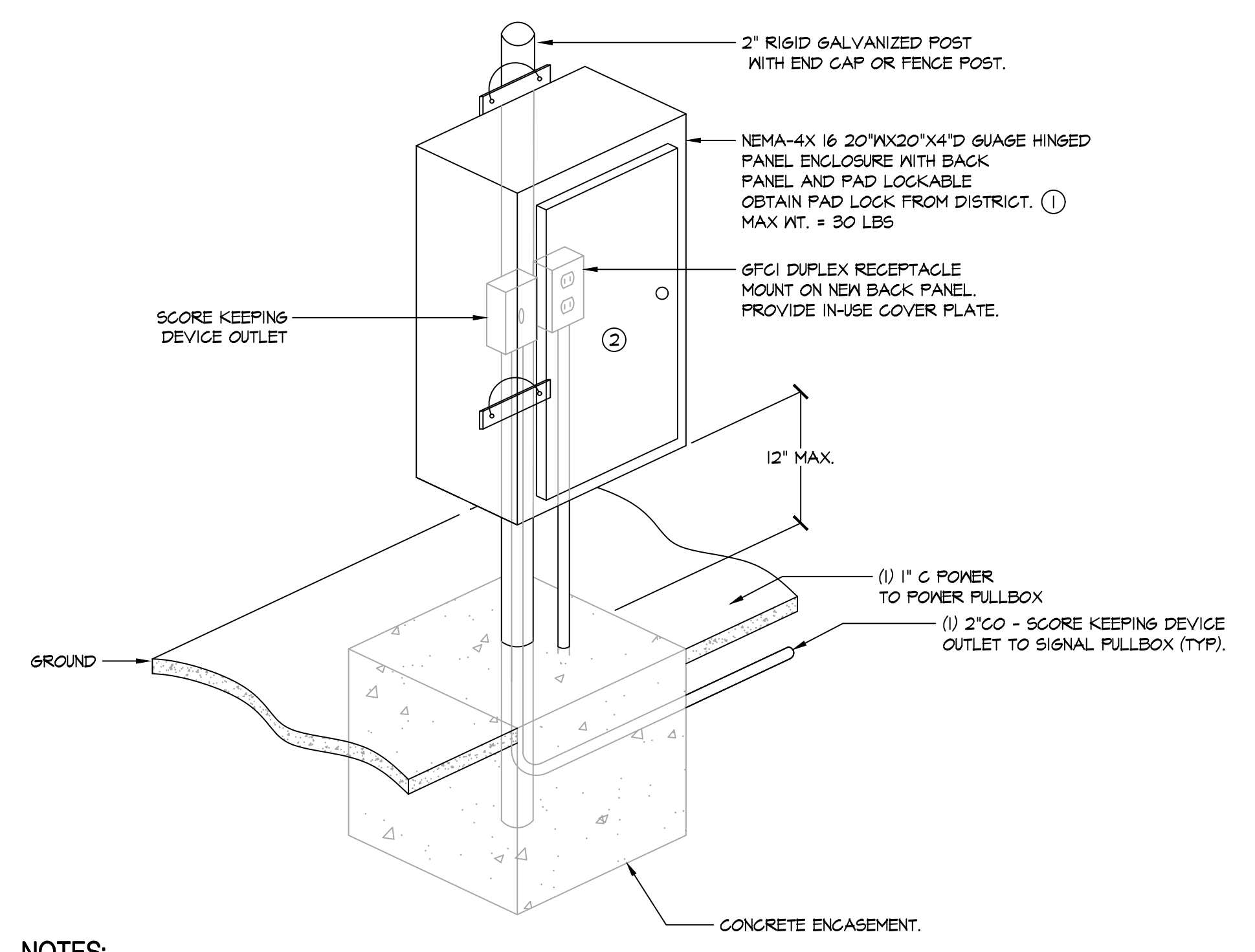
NOTE: PER U.L. FIRE RESISTANCE DIRECTORY SYSTEM M1002

3 CONDUIT WALL PENETRATION DETAIL
E7.3 NOT TO SCALE



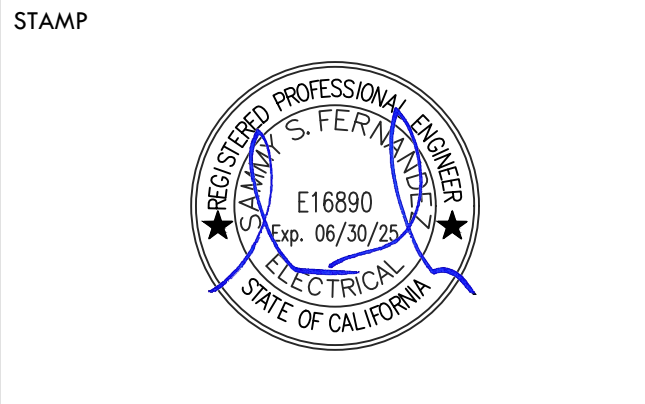
- NOTES:**
- ① NOT USED
 - ② (N) BOA/FP FUSED DISCONNECT, NEMA BR MAX WEIGHT 10LBS
 - ③ NOT USED
 - ④ (N) UNISTRUT MOUNTED ON H-BEAM
 - ⑤ (N) 3 HOLE FLUSH FITTING L - BRACKET
 - ⑥ (N) POWER CONDUIT

4 SCOREBOARD DISCONNECT PANEL MOUNTING
E7.3 NOT TO SCALE



- NOTES:**
- ① PULL CAN SHALL BE PROVIDED WITH SEPARATORS TO DIVIDE POWER & SIGNAL. PROVIDE AS REQUIRED TO COMPLY WITH N.E.C. NEMA-4X PULL CAN SHALL BE APPROVED U.L. LISTED.
 - ② PROVIDE ENGRAVED NAME PLATE. IDENTIFY AS SCOREBOARD CONTROL. NAME PLATE SHALL BE PROVIDED PER SPECIFICATIONS.

5 METAL ENCLOSURE DETAIL
E7.3 NOT TO SCALE



KEY MAP

SHEET TITLE
ELECTRICAL DETAILS

PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

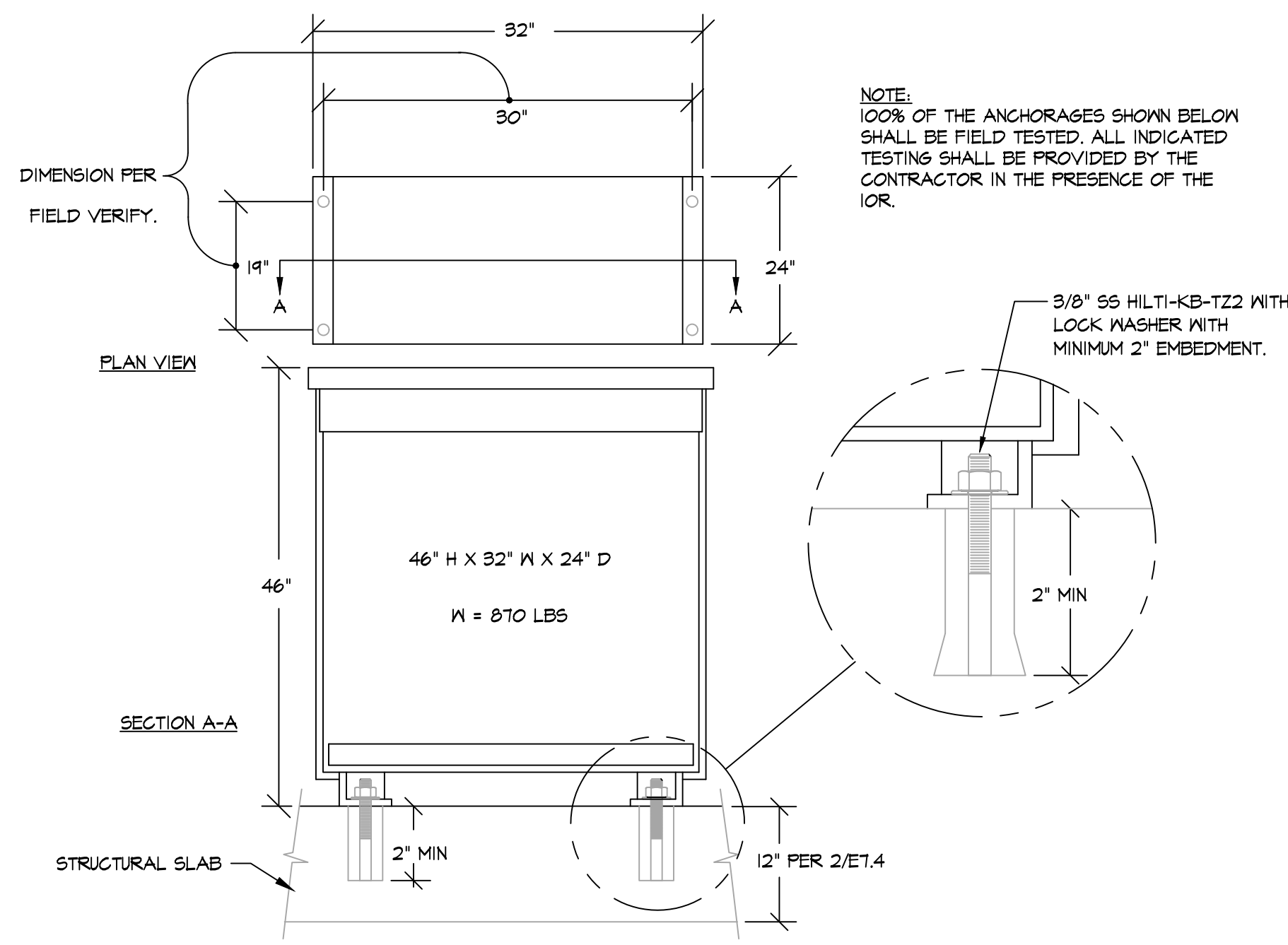
PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE

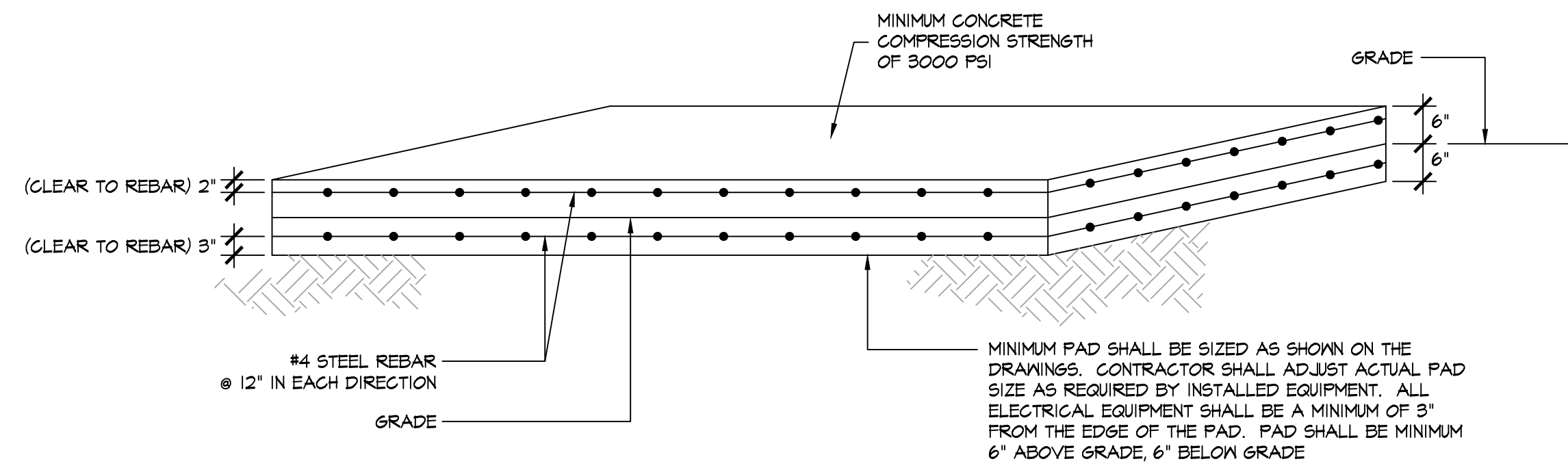
DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 03/18/2024	SCALE
PROJ. NO. 2309900	
SHEET NO. E7.3	

ALL RIGHTS RESERVED. REPRODUCTIONS OR TRANSMISSIONS OF THIS DOCUMENT OR ANY PART THEREOF WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC. IS PROHIBITED. THIS DOCUMENT IS THE PROPERTY OF VERDE DESIGN, INC. AND HERE CREATED, DEVELOPED, AND DELIVERED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSES WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



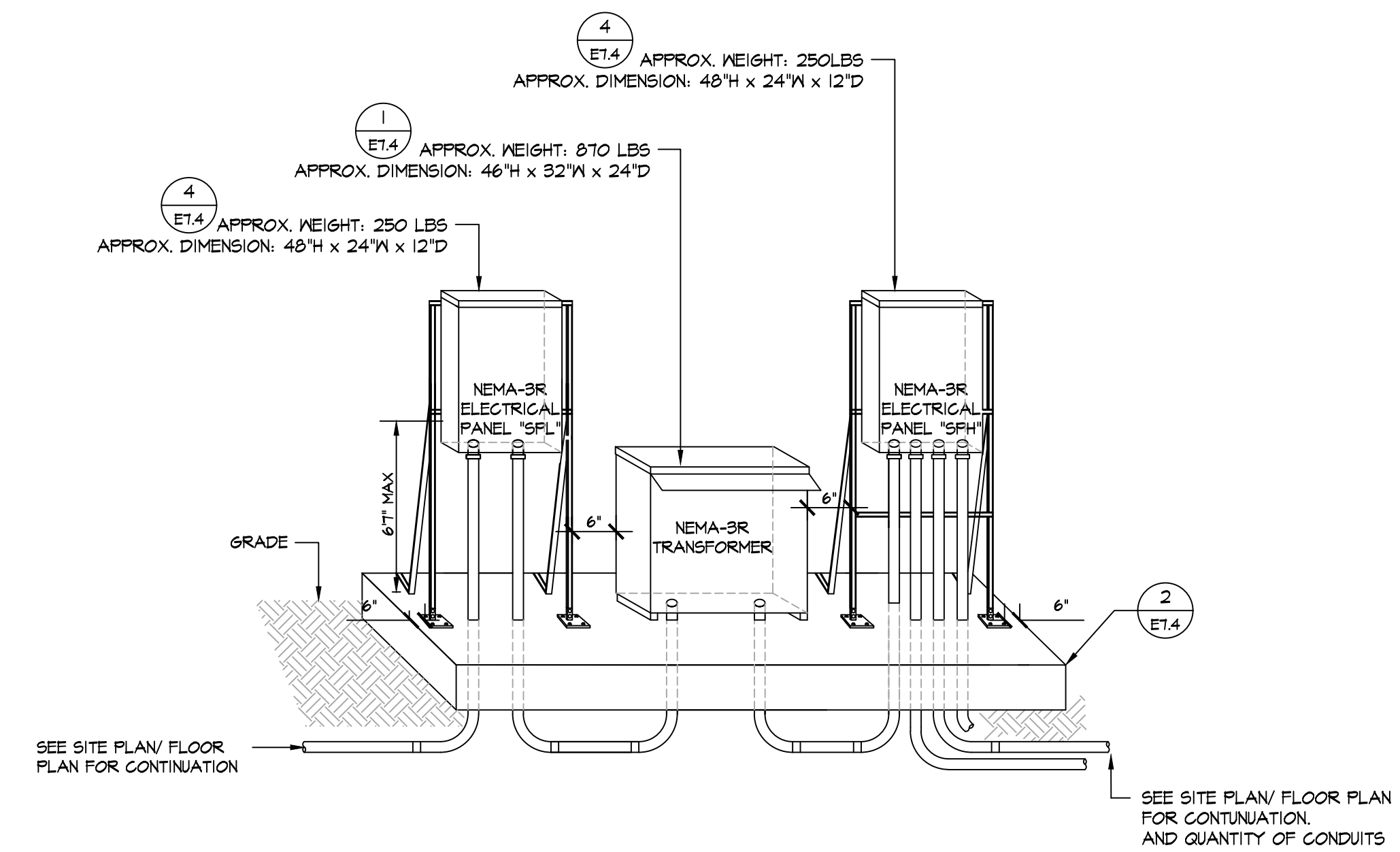
DISTRIBUTION TRANSFORMER INSTALLATION DETAIL

1
E7.4 NOT TO SCALE



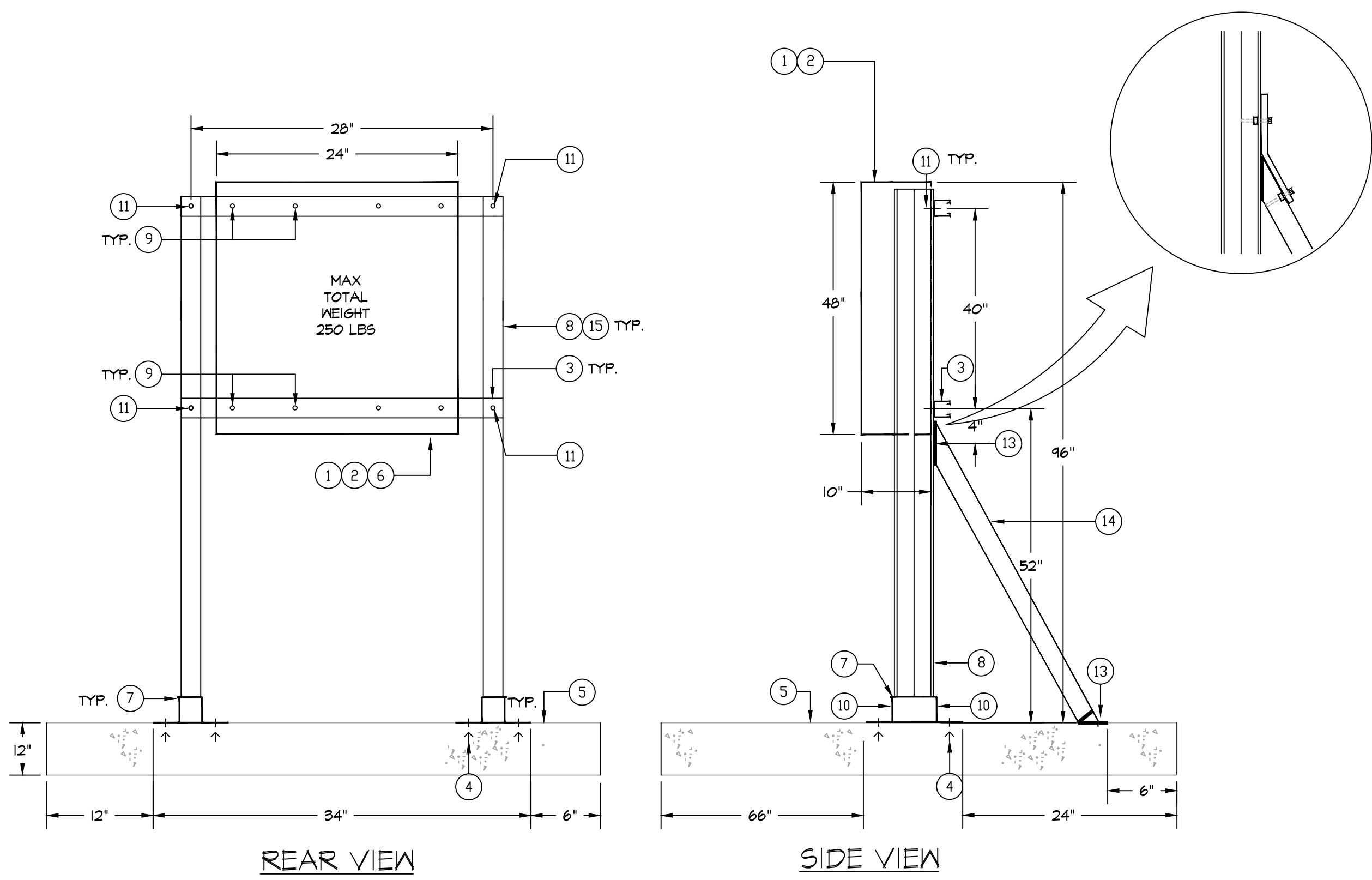
CONCRETE ELECTRICAL EQUIPMENT PAD

2
E7.4 NOT TO SCALE



NEMA 3R ELECTRICAL PANEL / TRANSFORMER / BREAKER ELEVATION DETAIL

3
E7.4 NOT TO SCALE



NOTES:

- 1 TYPE NEMA 4 LOCKABLE ENCLOSURE.
- 2 PANELBOARD.
- 3 PROVIDE UNISTRUT P1000 1½\"/>

GENERAL NOTES:

1. INSTALLATION OF ALL EXPANSION ANCHORS REQUIRES PERIODIC SPECIAL INSPECTION. ADDITIONALLY, TORQUE-TEST ALL ½\"/>

ENCLOSED CIRCUIT BREAKER AND PANEL INSTALLATION ON UNISTRUT DETAIL

4
E7.4 SCALE: NOT TO SCALE

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
18443 Iron Point Rd., Suite 140
Folsom, CA 95630
tel: 916.413.6554
fax: 916.413.6525
www.VerdeDesigninc.com

STAMP
REGISTERED PROFESSIONAL ENGINEER
E16800
EX. 06/30/22
ELECTRICAL
STATE OF CALIFORNIA

CONSULTANT
American Consulting Engineers Electrical, Inc.
1590 The Ardenia Suite 200 San Jose, CA 95128
408/236-2312 Fax: 408/236-2316
JOB #023095

ELECTRICAL DETAILS

PROJECT NAME
WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

PROJECT ADDRESS
5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

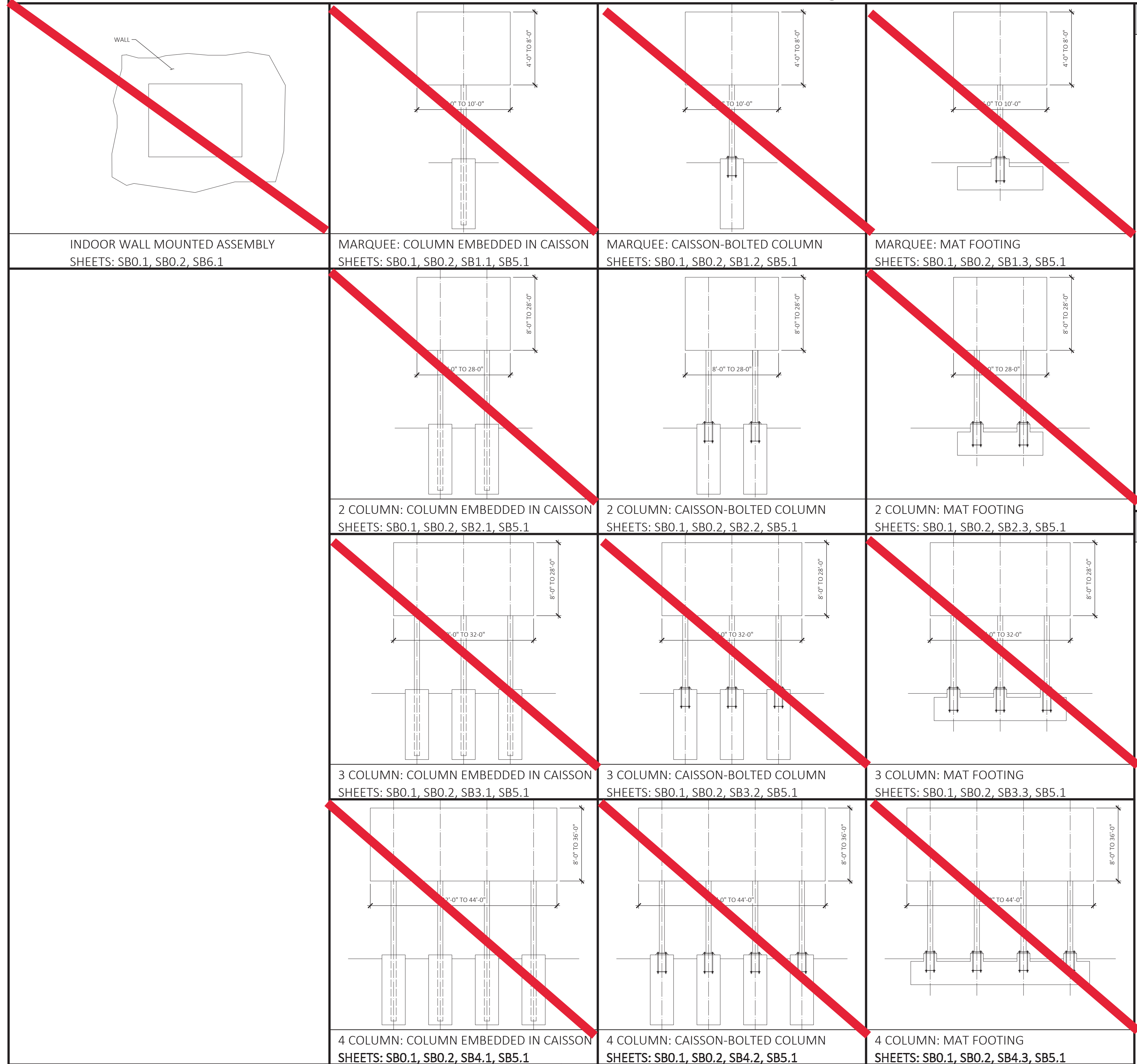
NO.	REVISIONS	DATE

DRAWN BY: CN
CHECKED BY: AA/SF
DATE ISSUED: 03/18/2024
SCALE:

PROJ. NO.: 2309900

SHEET NO.: **E7.4**

ALL DESIGN, DIMENSIONS, MATERIALS, METHODS, AND MEASUREMENTS ARE THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, DEVELOPED, AND DELIVERED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, DIMENSIONS, MATERIALS, METHODS, AND MEASUREMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.



INDOOR WALL MOUNTED ASSEMBLY SHEETS: SB0.1, SB0.2, SB6.1

MARQUEE: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB1.1, SB5.1

MARQUEE: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB1.2, SB5.1

MARQUEE: MAT FOOTING SHEETS: SB0.1, SB0.2, SB1.3, SB5.1

2 COLUMN: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB2.1, SB5.1

2 COLUMN: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB2.2, SB5.1

2 COLUMN: MAT FOOTING SHEETS: SB0.1, SB0.2, SB2.3, SB5.1

3 COLUMN: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB3.1, SB5.1

3 COLUMN: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB3.2, SB5.1

3 COLUMN: MAT FOOTING SHEETS: SB0.1, SB0.2, SB3.3, SB5.1

4 COLUMN: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB4.1, SB5.1

4 COLUMN: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB4.2, SB5.1

4 COLUMN: MAT FOOTING SHEETS: SB0.1, SB0.2, SB4.3, SB5.1

EARTHQUAKE DESIGN DATA	MAXIMUM	SITE SPECIFIC
Mapped Spectral Response Accelerations (Maximum)	$S_m = 3.73 \text{ g}$	$S_m = 0.546 \text{ g}$
Site Class	D	D
Spectral Response Coefficients (Maximum)	$S_{m1} = 2.49 \text{ g}$	$S_{m1} = 0.496 \text{ g}$
Wind Design Data	Value	Value
Design Wind Speed (3-sec gust), V_{ULT}	100 mph	95 mph
Exposure Category	C	C

Gravity Design Data	Value
Dead Loads:	
Sign Dead Load	PER SCHEDULE
Snow Loads:	
Ground Snow Load, P_g (Maximum)	30 psf
Deflection Criteria:	
Sign, Wind Load	H/240
Wind Design Data	Value
Design Wind Speed (3-sec gust), V_{ULT}	100 mph
Design Wind Speed (3-sec gust), V_{EXP}	77 mph
Risk Category	II
Exposure Category	C
Applicable Internal Pressure Coefficient	+0.18
Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7)	$q = 21.8 \text{ ksf}$ K _{VARIABLES}
Earthquake Design Data	Value
Risk Category	II
Importance Factor, I_e	1.0
Mapped Spectral Response Accelerations (Maximum)	$S_m = 3.73 \text{ g}$ $S_m = 1.0 \text{ g}$
Site Class	A through E
Spectral Response Coefficients (Maximum)	$S_{m1} = 2.49 \text{ g}$ $S_{m2} = 1.0 \text{ g}$
Seismic Design Category	E
Analysis Procedure Used	Equivalent Lateral Force Procedure (ASCE 7, 12.8)
Basic Seismic-Force Resisting System	Non-Building Structure, ASCE 7-16 Chapter 15
Response Modification Factor, Signs and Billboards Table 15.4-2	R = 3.0
Seismic Response Coefficient	C = 0.83
Design Base Shear	$V = C_s W_p$
Flood Design	Value
When the scoreboard is located in a flood zone other than Zone X, a letter stamped and signed from a Geotechnical Engineer is needed to validate allowable soil values specified in the PC are still applicable.	
Geotechnical Design Data	Value
Geotechnical Design Based on:	
2022 California Building Code, Chapter 18A, Table 1806.A.2 (Class 5 Material)	
Allowable Soil Bearing Pressure (DL + LL)	1,500 psf
Design Passive Pressure, P_p (Tabular value has been increased per CBC Section 1806A.3.4 for pier design)	100 pcf
Design Skin Friction, f_s	100 psf

Geotechnical Engineer:	Not Required
Letter Dated:	Not Required

Nevco Part No.or Description	Part Height [ft.]	Part Width [ft]	Part Weight [lb]
1608	6'0"	18'0"	320
ADO 18-3	3'0"	18'0"	120
Future ADO 18-3	3'0"	18'0"	120
Total	12'0"	18'0"	560
TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2)			
Total Assembly Height =	12 ft. 0 in.		
Total Assembly Width =	18 ft. 0 in.		
Total Assembly Weight =			560 lbs.
Distance from Finish Grade to Bottom of Sign =	10 ft. 0 in.	Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign =	22 ft. 0 in.
SCOREBOARD ASSEMBLY FOOTNOTES			
1. Verify part number, dimensions, and weight with Nevco			
2. See Step 3 of Scoreboard Assembly Worksheet Instructions			

SCOREBOARD ASSEMBLY WORKSHEET (TABLE A, C & D) INSTRUCTIONS

STEP 1: DETERMINE DESIRED SCOREBOARD ASSEMBLY. FILL OUT SCOREBOARD ASSEMBLY TABLE (TABLE A BELOW). PROVIDE NEVCO PART NUMBERS, PART HEIGHT, PART WIDTH, AND PART WEIGHTS.

STEP 2: DETERMINE TOTAL ASSEMBLY HEIGHT, WIDTH, AND WEIGHT, TABLE A

STEP 3: BASED ON TOTAL ASSEMBLY WIDTH, DETERMINE THE NUMBER OF REQUIRED COLUMNS. SEE SHEETS SB1.X FOR 1 COLUMN ASSEMBLY OPTIONS SB2.X FOR 2 COLUMN ASSEMBLY OPTIONS SB3.X FOR 3 COLUMN ASSEMBLY OPTIONS SB4.X FOR 4 COLUMN ASSEMBLY OPTIONS SB6.1 FOR WALL MOUNTED ASSEMBLY OPTIONS (SKIP STEPS 4, 5, & 7)

STEP 4: PICK FOUNDATION TYPE (CAISSON WITH EMBEDDED COLUMN, CAISSON WITH BOLTED COLUMN, OR MAT FOOTING). MARK APPLICABLE SHEET ON SHEET INDEX, SB0.1

STEP 5: MARK APPLICABLE CHECK BOX FOR SCOREBOARD SIZE ON DETAIL 'A' OF SELECTED COLUMN/FOUNDATION OPTION (SHEETS SB1.X, SB2.X, SB3.X OR SB4.X)

STEP 6: FILL IN SITE SPECIFIC SEISMIC AND WIND VALUES TABLE C ON SB0.1

STEP 7: FILL IN SITE SPECIFIC FLOOD ZONE AS REQUIRED, TABLE D ON SB0.1

STEP 8: VERIFY ALL APPLICABLE SHEETS ARE MARKED ON SHEET INDEX, SB0.1. INCLUDE ONLY MARKED SHEETS AS PART OF DSA SUBMITTAL

SITE SPECIFIC SUBMITTAL REQUIREMENTS

SEE DSA POLICY PL 07-02 FOR ADDITIONAL INSTRUCTIONS REGARDING USE AND APPLICATION OF THIS PRE-CHECK DOCUMENT. ALL SITE SPECIFIC SUBMITTALS SHALL INCLUDE:

- COMPLETED DSA 1 APPLICATION, DSA3, DSA 103, AND FILING FEE AND COPY OF THE PRE-CHECK DOCUMENT WITH APPLICABLE DESIGN OPTION MARKED ON THE MARQUEE, TWO COLUMN, THREE COLUMN, FOUR COLUMN, OR WALL ASSEMBLY SCHEDULES.
- SITE PLAN OF FACILITY IDENTIFYING ALL STRUCTURES BY DSA APPLICATION NUMBER. LOCATION OF SCOREBOARD SHALL BE IDENTIFIED. ELECTRICAL PANEL SERVING THE SCOREBOARD SHALL BE LOCATED AND IDENTIFIED.
- WHERE WIRELESS CONTROLLERS ARE NOT SPECIFIED, AN ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE SEATING FOR THE SCOREBOARD OPERATOR SHALL BE IDENTIFIED AND PROVIDED.
- PROVIDE AN ELEVATION OF PROPOSED SCOREBOARD IDENTIFYING ALL INSTALLED DISPLAY COMPONENTS, SIGNAGE, TRUSSES, AND ADDITIONAL COMPONENTS IN THE PRE-CHECK DOCUMENT. ALL ELEMENT WEIGHTS SHALL BE SPECIFIED.
- THE APPLICABLE SHEETS SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THIS SHEET.
- THE APPLICABLE CONFIGURATION SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THE 'A' DETAILS ON THE APPLICABLE SHEET.
- PROVIDE CUT SHEETS OF THE BOARDS, BOXES, AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE. CUT SHEETS SHALL INCLUDE WEIGHTS AND DIMENSIONS
- SITE SPECIFIC SEISMIC DESIGN CRITERIA SHALL BE PROVIDED IN THE DRAWINGS.
- SITE SPECIFIC BASIC DESIGN WINDSPEED AND SITE EXPOSURE SHALL BE PROVIDED ON THE DRAWINGS, SEE TABLE C.
- STEEL COATING SPECIFICATIONS FOR WEATHER PROTECTION IF DIFFERENT THAN NOTED ON SB0.3
- A GEOHAZARD REPORT IS NOT REQUIRED PER IR A-4.13. IF A SCOREBOARD IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED BY A GEOTECHNICAL ENGINEER IS REQUIRED VALIDATING THE ALLOWABLE SOIL VALUES, PROVIDE INFORMATION IN TABLE D.
- PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES THAT DO NOT MEET THE MINIMUM SETBACK REQUIREMENTS.
- PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F.
- FOR WALL MOUNTED ASSEMBLIES (SB6.1), STRUCTURAL ANALYSIS AND JUSTIFICATION THAT THE WALL FRAMING IS CAPABLE OF SUPPORTING THE ASSEMBLY FOR VERTICAL AND LATERAL LOADS.

CHECK ALL THAT APPLY	SHEET INDEX
<input checked="" type="checkbox"/> (REQ'D)	SB0.1 COVER SHEET
<input checked="" type="checkbox"/> (REQ'D)	SB0.2 STRUCTURAL NOTES
<input type="checkbox"/>	SB0.3 EXAMPLE DSA 103 TESTING AND INSPECTIONS
<input type="checkbox"/>	SB1.1 MARQUEE CAISSON EMBEDDED
<input type="checkbox"/>	SB1.2 MARQUEE CAISSON - BOLTED
<input type="checkbox"/>	SB1.3 MARQUEE MAT FOOTING
<input type="checkbox"/>	SB2.1 TWO COLUMN CAISSON EMBEDDED
<input checked="" type="checkbox"/>	SB2.2 TWO COLUMN CAISSON - BOLTED
<input type="checkbox"/>	SB2.3 TWO COLUMN MAT FOOTING
<input type="checkbox"/>	SB3.1 THREE COLUMN CAISSON EMBEDDED
<input type="checkbox"/>	SB3.2 THREE COLUMN CAISSON BOLTED
<input type="checkbox"/>	SB3.3 THREE COLUMN MAT FOOTING
<input type="checkbox"/>	SB4.1 FOUR COLUMN CAISSON EMBEDDED
<input type="checkbox"/>	SB4.2 FOUR COLUMN CAISSON BOLTED
<input type="checkbox"/>	SB4.3 FOUR COLUMN MAT FOOTING
<input checked="" type="checkbox"/>	SB5.1 ATTACHMENT DETAILS
<input type="checkbox"/>	SB5.2 OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS
<input type="checkbox"/>	SB5.3 DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS
<input type="checkbox"/>	SB5.4 DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS & 10mm VIDEO BOARD
<input type="checkbox"/>	SB6.1 INDOOR WALL MOUNTED SCOREBOARD

CODE INFORMATION

2022 CALIFORNIA BUILDING STANDARDS CODE (TITLE 24, CCR):

2022 ADMINISTRATIVE CODE, PART 1, TITLE 24 CODE OF REGULATIONS (CCR)
 2022 CALIFORNIA BUILDING CODE VOLUMES 1 & 2, PART 2, TITLE 24 CCR
 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
 2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
 2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR
 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS:
 2022 CALIFORNIA BUILDING CODE, CHAPTER 35
 2022 CALIFORNIA FIRE CODE, CHAPTER 80

GENERAL NOTES AND MATERIAL SPECIFICATIONS

GENERAL REQUIREMENTS

- THE ARCHITECT OR PROFESSIONAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS PER TITLE 24, PART 1, SECTIONS 4-316(E) AND 4-317 (H).
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA, OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY TITLE 24, PART 1, SECTION 4-338.
- THE DISTRICT SHALL EMPLOY A CLASS 2 PROJECT INSPECTOR WHEN OVERALL STRUCTURE HEIGHT IS 35 FEET OR GREATER, OTHERWISE A CLASS 3 PROJECT INSPECTOR MAY BE USED. THE PROJECT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK, AND SHALL SUBMIT VERIFIED REPORTS ON A DSA-6 FORM. THE DUTIES OF THE PROJECT INSPECTION ARE DEFINED IN TITLE 24, PART 1, SECTION 4-342.
- ALL SCOREBOARD CONTROLS SHALL BE FULLY ACCESSIBLE VIA WIRELESS CONTROL OR COMPLETE DESIGN SHALL BE DEMONSTRATED IN THE SITE-SPECIFIC APPLICATION.
- ALL ASSEMBLIES SHALL HAVE ELECTRICAL DISCONNECT PER CEC 600.6 AND BE ELECTRICALLY GROUNDED PER CEC 600.7, SEE DETAIL B/SB5.1
- IN FLOOD ZONES, LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO ASCE 24, SECTION 7.2 PER DSA PR-14-01 SECTION 1.2.1.
- SEE PAGE, SB0.2, FOR ALL MATERIAL SPECIFICATIONS AND NOTES.
- PROJECT DESIGN PROFESSIONAL OF RECORD IS RESPONSIBLE FOR PREPARATION OF THE PROJECT SPECIFIC DSA 103 AND IS RESPONSIBLE FOR ALL SHOP DRAWING AND SUBMITTAL REVIEWS. SEE SB0.3 FOR EXAMPLE DSA 103

SSG structural engineers

PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. 5405

DATE SIGNED: 08.09.2023

PC SEOR SEAL

NEVCO

301 East Harris Avenue, Greenville, Illinois 62246
 Phone: (618) 664-0960
 www.nevco.com

APPROVED ARCHITECT
 DIV. OF THE STATE ARCHITECT
 APP: 04-122317 PC
 REVIEWED FOR:
 SS [] PS [] ACS [] CG []
 DATE: 09/20/2023

PRE-CHECK (PC) DOCUMENT
 CODE: 2022

A separate project application for construction is required.

WEST CAMPUS HS,
 SCOREBOARD ASSEMBLY

COVER SHEET

BHEET INFORMATION

DATE: 08.09.2023

DRAWN: JMK

CHECKED: MEP

SSG JOB #: S23109

SHEET: SB0.1

STRUCTURAL NOTES

GENERAL NOTES

- The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
- Specific notes and details shall take precedence over general notes and typical details.
- All materials and workmanship shall conform to the minimum standards of the 2022 edition Title 24 of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC on the job site.
- The "Contract or Construction Documents" shall consist of these notes, details, schedules, plans, and drawings.
- All specifications, including but not limited to materials and products, shall be those put forth in the "Contract or Construction Documents". No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Structural Engineer of Record.
- The contractor shall examine the "Contract or Construction Documents" and shall notify the Architect or Structural Engineer of Record of any discrepancies he may find before proceeding with the work.
- All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Architect or Structural Engineer of Record of any discrepancies between actual site conditions and information shown on or in the "Contract or Construction Documents" before proceeding with work.
- The Contractor shall immediately notify the Architect or Structural Engineer of Record of any condition which in his opinion might endanger the stability of the structure or cause distress of the structure.
- All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
- These "Contract or Construction Documents" represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
- Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
 - Labeling (as required or specified) shall be provided in accordance with CBC Section 1703A.5.
 - Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703A.6.
- The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
- The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary regrading of the structure to determine final position of the completed work.
- Observation visits to the project site by field representatives of Architect and/or Structural Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Architect or Structural Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others. These support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
- These notes, details, drawings and specifications (Contract or Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction hereby contemplated are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
- Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
- Written dimensions shall have precedence over scaled dimensions.
- Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
- In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, then their construction shall be of the same character as for similar conditions that are shown or called for.
- ASTM designation and all standards refer to the latest amendments.
- These structural "Contract or Construction Documents" shall not be modified without prior written approval of the Structural Engineer of Record.
- Only structural working drawings approved by the Division of the State Architect are permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.
- A Division of the State Architect certified project inspector employed by the District (Owner) and approved by the Division of the State Architect shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24 California Code of Regulations.

FOUNDATION NOTES

- Basis: See Structural Design Values Chart, Sheet SB0.1 Table B
- Unexpected soil conditions: Allowable values and foundation design are based upon the minimum values provided in Table 1806A.2 of the 2022 California Building Code. See SB0.1 for values
- Excavate to required depths and dimensions (as indicated in drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower-elevation and prevent disturbing of soils around higher elevation.
- Footings shall be poured in neat excavations, without side forms whenever possible.
- Carry all foundations to required depths into compacted fill or natural soil (as per Structural Plans and Details).
- All foundation excavations shall be inspected and approved by the Inspector of Record or Geotechnical Engineer prior to forming and placement of reinforcing or concrete.
- Foundations shall not be poured until all required reinforcing steel, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the Authority having Jurisdiction.
- The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
- De-water footings, as required, to maintain dry working conditions.

REINFORCING STEEL

- All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 ($f_y = 60$ ksi) unless noted otherwise.
- Reinforcing steel shall not be welded, unless specifically noted otherwise.
- To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices must be provided. Placing of reinforcement shall conform to ACI 318-19 Section 26.6.2.
- Shop drawings for fabrication of any reinforcing steel shall be approved by Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record, for their review, prior to fabrication.
- Refer to typical details for minimum splice length and minimum radius of bend of reinforcing steel.
- All reinforcing steel splices shall be staggered 24", unless specifically noted or detailed otherwise.
- All reinforcing bar bends shall be made cold.
- Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute of Standard Practice.
- Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.

CONCRETE

- All concrete shall have a minimum ultimate compressive strength (f'_c) as outlined below at 28 days. All concrete shall be regular weight (unless specifically noted otherwise).
 - Concrete for footings: 4,500 psi $w/c = 0.45$ max.
- Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
- All concrete work shall comply with CBC Chapter 19A and ACI 318-19 and latest edition of ACI Manual of Concrete Practice.
- Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
- Cement shall be portland cement Type V and shall conform to ASTM C150.

- Aggregates shall conform to ASTM C33, provide aggregates from a single source.
- Water shall conform to ASTM C94 and be potable.
- Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
 - Concrete cast against and permanently exposed to earth or weather: 3"
- All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.
- Vibrate all concrete as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
- Formwork design and removal shall conform to ACI 318-19 Section 26.11. Remove forms in accordance with the following minimum schedule:
 - Side forms of footings: Minimum 48 hours
 - Column and pier forms: 72 hours & 70% of design strength
- Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
- Concrete shall be maintained in a moist condition for a minimum of 5 days after placement.
- The Contractor may use concrete admixtures as a construction means and methods to execute "Contract or Construction Documents". Use of admixture is solely the responsibility of the Contractor.
- Mix designs shall be prepared by an approved testing laboratory, signed by a licensed engineer and shall be submitted to the Project Specific Design Professional of Record for approval. SSG is not responsible for review or approval of site specific concrete mix design.
- Only one grade of concrete shall be allowed on project site at any one time
- Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1905A.1.16) made by an approved testing laboratory.
- Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-19 Section 26.5.4, and ACI 306R-16.
- Concrete placed during hot weather shall conform to ACI 318-19 Section 26.5.5, and ACI 308R-14.
- Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
 - 1" concrete cover shall be maintained around all reinforcement.
- No stakes shall be permitted within the footing section.
- Concrete shall reach minimum 75% design strength or cure for 3 days minimum prior to installation of steel columns and scoreboard components.

DRILLED CAISSON/PIER AND GRADE BEAM NOTES

- Excavations for drilled caissons/pier shall be performed in compliance with local grading codes and ordinances as well as CBC Chapters 18A and 33A.
- Provide Special Inspection in accordance with CBC Section 1705A.8 and Table 1705A.8.
- Excavations for all drilled caissons/piers shall be approved by the Project Geotechnical Engineer or Project Specific Inspector prior to placing of concrete.
- Reinforcement for drilled caissons/pier shall be approved by the Structural Engineer of Record prior to placing in caisson/pier excavation.
- De-water caisson/pier footings and building excavations as required to maintain dry working conditions.
- Caisson/piers are to be poured within 24 hours after completion of drilling operation. Shoring requirements shall be determined by contractor. Contractor shall provide fall protection and safety barriers at and near the drilled hole as required by OSHA and the Authority Having Jurisdiction.
- The Contractor shall be responsible for all shoring, bracing, etc. necessary to support cut and/or fill banks, and existing structures during excavation, and the forming and placement of concrete.
- Bottom of caissons/piers shall be thoroughly cleaned prior to placement of concrete.

STRUCTURAL STEEL AND WELDING

- All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
 - Fabrication of all structural steel shall be done in the shop of an approved fabricator. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
- All structural steel shall conform to the following specifications:
 - Angles, channels, plates, bars, rounds, and other miscellaneous shapes: Shall conform to ASTM A36 and shall have a minimum yield stress (F_y) of 36 ksi.
 - Wide-flange shapes: Shall conform to ASTM A992 and shall have a minimum yield stress (F_y) of 50 ksi.
 - Structural tubes: Shall be ASTM A500, Grade C, and shall have a min. yield stress (F_y) of 50ksi.
- All structural steel fasteners shall conform to the following specifications:
 - Bolts shall conform to ASTM A307
 - Anchor Bolts shall conform to ASTM F1554, Grade as noted in drawings
 - Carbon steel nuts shall conform to ASTM A563
 - Stainless steel nuts shall conform to ASTM F594.
 - Washers shall conform to ASTM F436
- Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17A.
- All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
- All welding shall be done by qualified and certified welders.
- Shop drawings for the fabrication of any structural steel shall be approved by the Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record for their review, prior to fabrication.
- No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
- All welding shall conform to 'AWS D1.1' specifications for welding. (E-70XX Electrodes).
- Where fillet weld size is not indicated, use 'AWS' minimum size based on the thickness of the thinner part being welded, as specified in AISC Specifications for Structural Steel Buildings (AISC 360-10), Section J2.2.
- All butt welds to be complete joint penetration, unless specifically noted otherwise.
- Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel, see steel decking) shall conform to CBC Sections 1705A.2.1 and 2204A.1.
- Provide 3" minimum concrete cover around all structural steel below grade.
- Structural steel embedded into concrete shall be uncoated.
- Structural steel shall be hot-dip galvanized (minimum ASTM A123 or A153 Class D) or painted with zinc-rich primer, undercoat, and finish coat; or equivalent paint system.
- All exposed steel fasteners, including cast-in-place anchor bolts/rods, shall be stainless steel (Type 304 minimum), hot-dip galvanized (ASTM A153, Class D minimum or ASTM F2329), or protected with corrosion-preventive coating that demonstrated no more than 2% of red rust in minimum 1,000 hours of exposure in salt spray test per ASTM B117. Zinc plated fasteners do not comply with this requirement.

ABBREVIATIONS

A.B.	Anchor Bolt	HORIZ.	Horizontal
ABV.	Above	HSS	Hollow Steel Section
ADJ.	Adjacent	HT.	Height
AHJ	Division of the State Architect	ICC	International Building Code
AISC	American Institute of Steel Construction	ICC	International Code Council
AOR	Architect of Record	ID	Inside Diameter
APPROX.	Approximately	IN.	Inch, Inches
ASCE	American Society of Civil Engineers	INT.	Interior
ARCH.	Architect, Architecture	ksi	Kips per Square Inch
ASTM	American Society of Testing and Materials	LL	Live Load
ATR	All Thread Rod	MAX.	Maximum
AWS	American Welding Society	MB	Machine Bolt
B.O.	Bottom of _____	MFR.	Manufactured, Manufacturer
BOT.	Bottom	MIN.	Minimum
b/t	Between	MPH	Miles per Hour
CAC	California Administrative Code	N/R	Not Required
CBC	California Building Code	N.T.S.	Not to Scale
CIP	Cast-in-place	o.c.	On Center
CJP	Complete Joint Penetration	o/v	Over
CL.	Centerline	OD	Outside Diameter
CLR.	Clear	OD	Outside Diameter
COL.	Column	PEN.	Penetration
CONC.	Concrete	PL	Plate
CONN.	Connection	PIP	Partial Joint Penetration
CONST.	Construction	psi	Pounds per Square Inch
CONT.	Continue, Continuous	PSF	Pounds per Square Foot
Ø	Diameter	REBAR	Reinforcing Bar
DBL.	Double	REINP.	Reinforcement
DET.	Detail	REQD	Required
DI	Dead Load	S.F.	Square Feet
DSA	Division of State Architect	SHT.	Sheet
DWGS.	Drawings	SIM.	Similar
EA.	Each	SMS	Sheet Metal Screw
E.F.	Each Face	SQ.	Square
ELEC.	Electric, Electrical	STAGTD	Staggered
ELEV.	Elevation	STD.	Standard
EMBED.	Embedded, Embedment	STD.	Standard
EOR	Engineer of Record	STL	Steel
EQUIP.	Equipment	SEOR	Structural Engineer of Record
E.S.	Each Side	T&B	Top and bottom
E.W.	Each Way	THR'D	Threaded
EXT.	Exterior	T.O.	Top of _____
		TYP.	Typical
FAB.	Fabricated	U.N.O.	Unless Noted Otherwise
FDN.	Foundation		
F.G.	Finish Grade		
F.O.	Face of _____	VERT.	Vertical
FRMG.	Framing	VIF	Verify in Field
FT.	Foot-Feet	w/	With
FTG.	Footing	w/c	Water/Cement Ratio
		WSS	Welded Steel Stud
GALV.	Galvanized	WT.	Weight
GEOR	Geotechnical Engineer of Record		

POST INSTALLED ANCHOR & TESTING

- All post-installed anchors are to be tension tested with the exception that torque testing is allowed if the anchors are specifically designed as torque controlled
- Test quantity of post-installed anchors as noted below:

Application	Quantity
Non-structural (Equipment Anchorage, etc.)	50%
Structural	100%
- Apply proof test loads to anchors without removing the nut if possible. If not, remove nut and install a threaded coupler to the same tightness of the original nut using a torque wrench and apply load.
- All tests shall be performed in the presence of the inspector.
- Reaction loads from test fixtures may be applied close to the anchor being tested, provided the anchor is not restrained from withdrawing or restricted from a concrete shear cone type failure mechanism.
- Test equipment is to be calibrated by an approved testing laboratory in accordance with standard recognized procedures.
- The following criteria apply for the acceptance of installed anchors:
 - Hydraulic ram method: anchors tested with a hydraulic jack or spring loaded devices shall maintain the test load for a minimum of 15 seconds and shall exhibit no discernible movement during the tension test, e.g. as evidenced by loosening of the washer under the nut.
 - Torque wrench method: anchors tested with a calibrated torque wrench must attain the manufacturer recommended torque within 1/2 turn of the nut.
 - Wedge or sleeve type: one-quarter turn of the nut from 3/8" sleeve anchor only.
 - Threaded type: one-quarter turn of the screw after initial seating of the screw head.
- If any anchor fails testing, test all anchors of the same type not previously tested until twenty consecutive anchors pass, then resume the initial test frequency. If the anchors are used for the support and bracing of non-structural components (pipe, duct or conduit), the twenty shall be only those anchors installed by the same trade.
- Test loads per ICC ESR, IAPMO, OR UES report
- When installing drilled-in anchors and/or powder driven pins in existing non-prestressed reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. When installing them into existing prestressed concrete (pre- or post-tensioned) locate the prestressed tendons by using a non-destructive method prior to installation. Exercise extreme care and caution to avoid cutting or damaging the tendons during installation. Maintain a minimum clearance of one inch between the reinforcement and the drilled-in anchor and/or pin.

ANCHOR TORQUE TEST VALUES

Anchor Diameter	CONCRETE		MASONRY	
	HILTI KB TZ 2	SIMPSON STRONG BOLT 2	HILTI KB TZ 2	SIMPSON STRONG BOLT 2
3/8"	30 ft-lb	30 ft-lb	15 ft-lb	20 ft-lb
1/2"	50 ft-lb	60 ft-lb	25 ft-lb	35 ft-lb
5/8"	40 ft-lb	90 ft-lb	30 ft-lb	55 ft-lb
3/4"	110 ft-lb	150 ft-lb	50 ft-lb	100 ft-lb

If the manufacturer's recommended installation torque is less than the test torque noted in the table, the manufacturer's recommended installation torque should be used in lieu of the tabulated values.

See manufacturer's ESR report for Maximum Impact Wrench Torque Rating.

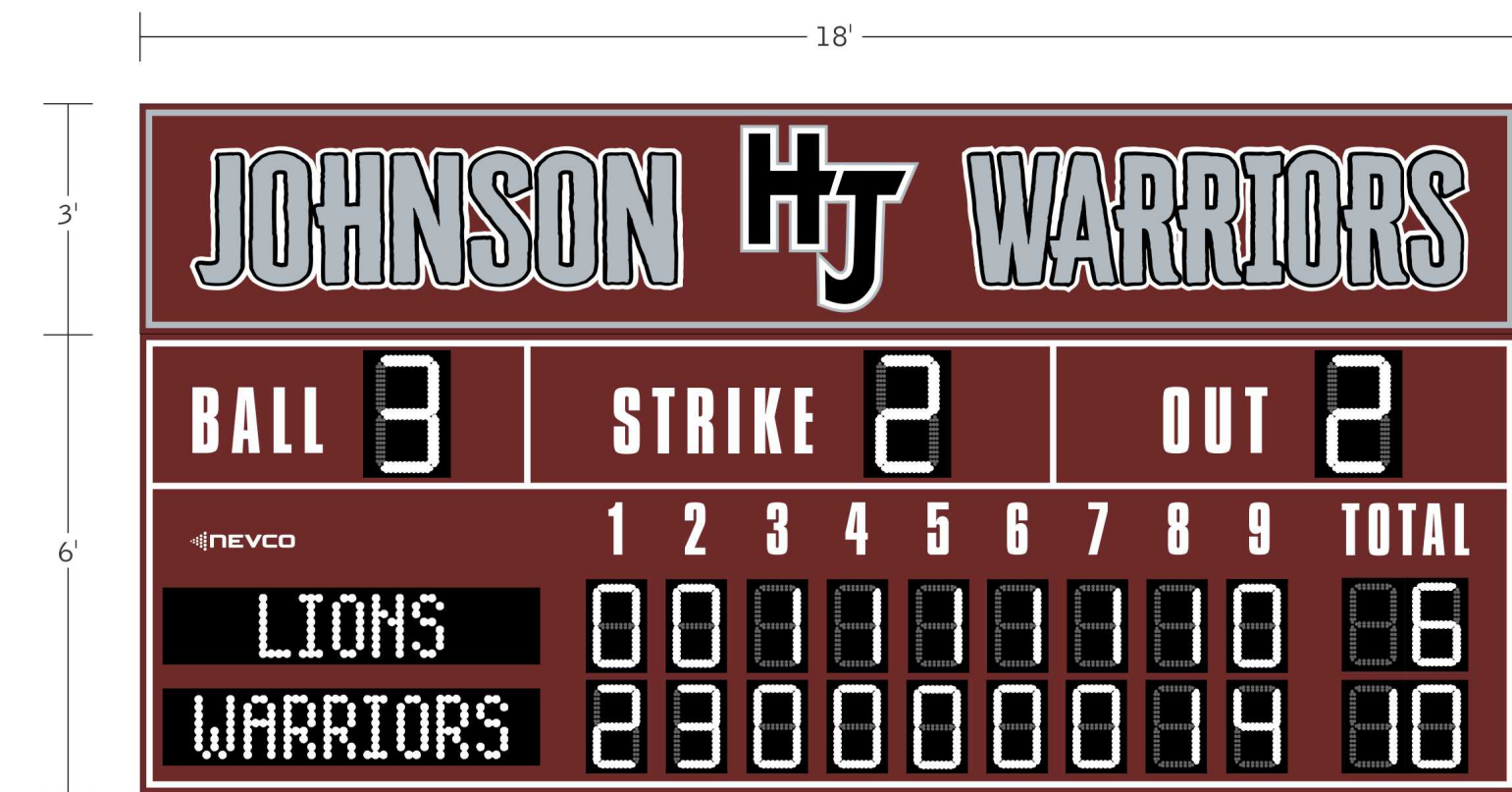
NOTE: FOR TESTING & SPECIAL INSPECTIONS SEE FORM DSA 103 SUBMITTED SEPARATELY

HIRAM JOHNSON HIGH SCHOOL, SACRAMENTO, CA

PROOF #58153C-PR

PROOF INCLUDES:

- Model 1408-ETN Baseball Softball LED Scoreboard
18W x 61" x 6'D
Scoreboard Color: #73 Maroon
Digit Color: White
Electronic Team Name Color: White
- Non-Illuminated Sign
18W x 3'H



SIGNATURE OF APPROVAL

DATE

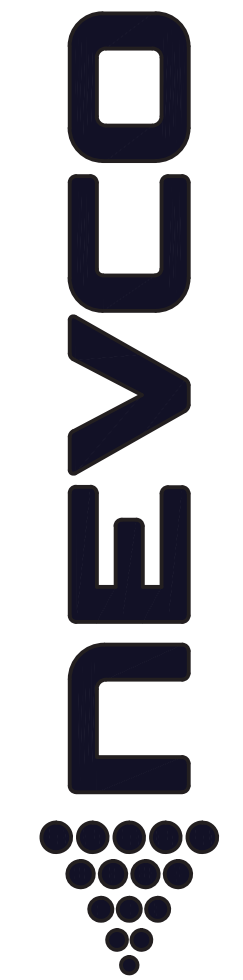
This rendering is for conceptual purposes only. It may not be to exact scale or specifications and should not be used for installation purposes. Every effort has been made to make it as accurate as possible. Beams and/or pillars are for illustration only. Engineering specifications may require changes in the quantity, size and/or shape of beams and pillars to meet installation requirements. Nevco assumes no obligations or liability regarding the viability or applicability of existing structures. THIS DRAWING IS THE PROPERTY OF NEVCO INC. AND SHALL NOT BE REPRODUCED, COPIED, SHARED OR DISTRIBUTED WITH ANYONE OTHER THAN THE INTENDED STAFF OR CLIENT OF THE PROPOSED PROJECT WITHOUT THE EXPRESSED PERMISSION OF NEVCO INC.



DATE SIGNED: 08.09.2023

THESE DRAWINGS, NOTES AND DETAILS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF SSG STRUCTURAL ENGINEERS, LLP. ALL DRAWINGS, INFORMATION, SPECIFICATIONS, CODES, ORDINANCES AND ARRANGEMENTS REPRESENTED WITHIN THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE COPIED, REPRODUCED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER. CONTRACT 2023

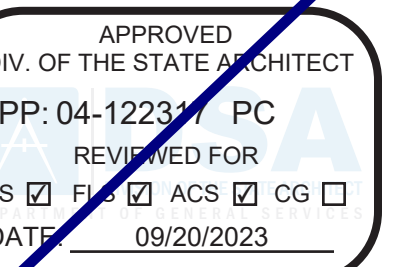
THANK YOU FOR YOUR INTEREST IN NEVCO SCOREBOARD PRODUCTS



301 East Harris Avenue, Greenville, Illinois 62246

Phone: (618) 664-0960

www.nevco.com



USA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022

A separate project application for construction is required.

**WEST CAMPUS HS,
SCOREBOARD ASSEMBLY**

SHEET INFORMATION

DATE: 08.09.2023

DRAWN: JMK

CHECKED: MEP

SSG JOB #: S23109

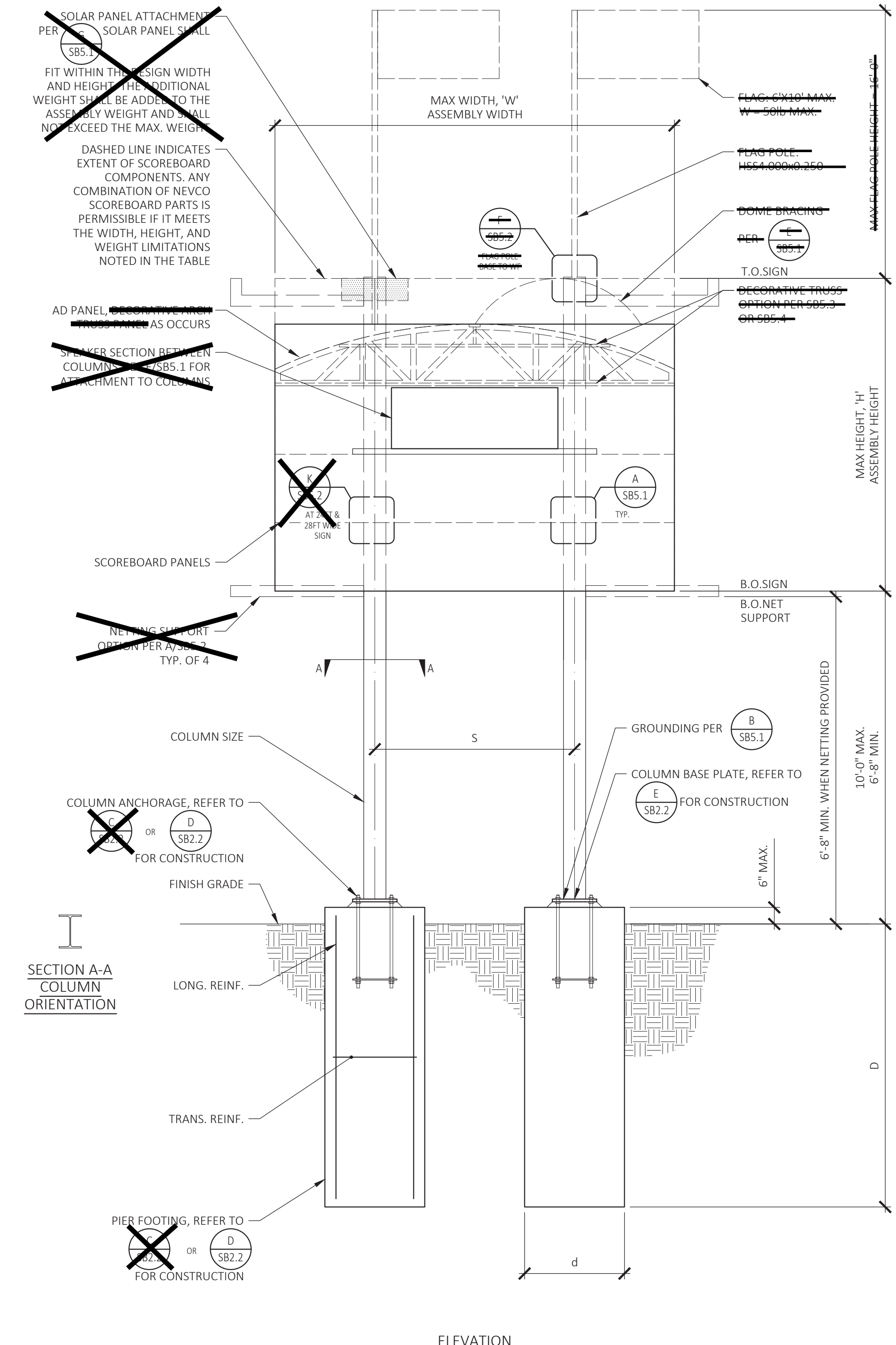
SHEET

SB0.2

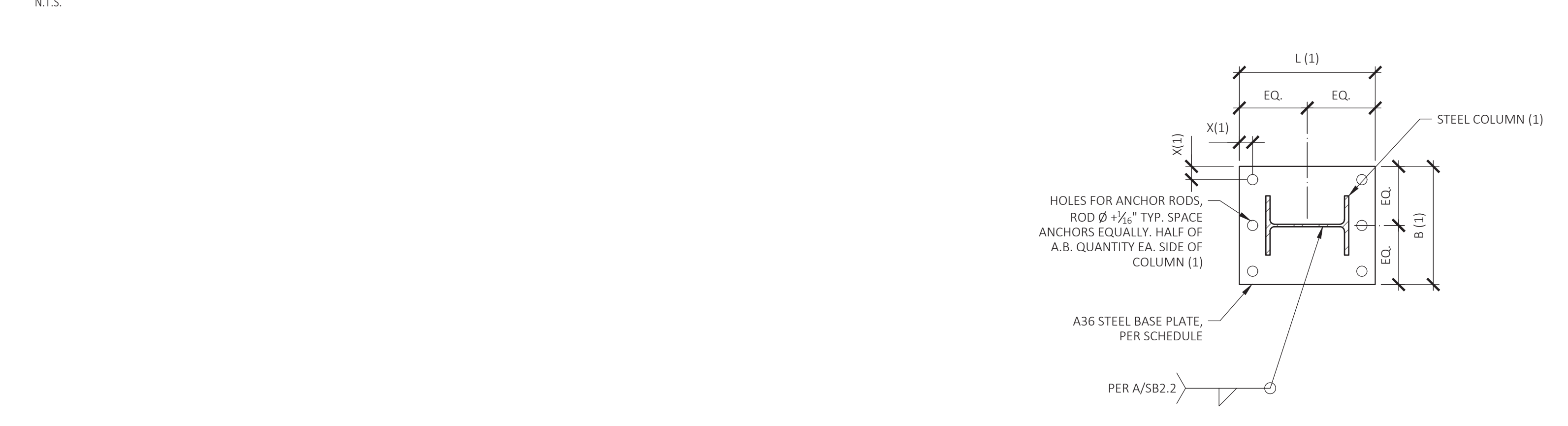
**STRUCTURAL
NOTES &
SPECIAL
INSPECTIONS**

ASSEMBLY CRITERIA		PIER FOOTING CRITERIA (2)										BASE PLATE				ANCHOR RODS			
ASSEMBLY WIDTH, W	CHECK OPTION THIS APPLICATION	MAX. WEIGHT	ASSEMBLY HEIGHT, H	COLUMN SPACING, S	COLUMN SIZE	COLUMN SIZE W/O FLAG	PIER DIAMETER, d	DEPTH, D	LONG. REINF.	TRANS. REINF. (1)	THICKNESS, t	WIDTH, B	LENGTH, L	WELD	QUANTITY & DIAMETER	GRADE	EDGE DISTANCE, X	GROUT HEIGHT	EMBED
8'-0"		770 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"	7'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
		1,160 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"	8'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
		1,540 lbs.	≤ 16'-0"	8'-0"	W12x40	W12x40	36"	9'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	48"
		1,920 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	42"	9'-9"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		870 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"	7'-3"	8-#8	#4 @ 42" o.c.	1"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
		1,300 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"	8'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
		1,730 lbs.	≤ 16'-0"	8'-0"	W12x40	W12x40	36"	9'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	48"
		2,160 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	42"	10'-0"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		960 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"	7'-6"	8-#8	#4 @ 42" o.c.	1"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
		1,440 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"	8'-6"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
		1,920 lbs.	≤ 16'-0"	8'-0"	W12x40	W12x40	36"	9'-6"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.105	2 1/2"	2"	48"
		2,400 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	48"	10'-6"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"	F1554-GR.105	2 1/2"	2"	64"
		1,100 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x30	36"	8'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
		1,730 lbs.	≤ 12'-0"	8'-0"	W12x40	W12x33	36"	9'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	48"
		2,310 lbs.	≤ 16'-0"	8'-0"	W14x61	W14x43	42"	10'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		2,880 lbs.	≤ 20'-0"	8'-0"	W16x67	W14x61	48"	10'-3"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		1,540 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x33	36"	8'-9"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	48"
		2,020 lbs.	≤ 12'-0"	8'-0"	W12x45	W12x40	36"	10'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"	F1554-GR.55	2 1/2"	2"	48"
		3,080 lbs.	≤ 16'-0"	8'-0"	W14x61	W14x61	48"	12'-0"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		3,840 lbs.	≤ 20'-0"	8'-0"	W16x77	W16x67	48"	12'-0"	12-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"	F1554-GR.105	2 1/2"	2"	64"
		1,730 lbs.	≤ 8'-0"	10'-0"	W12x35	W12x35	36"	9'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1/2"	F1554-GR.36	2 1/2"	2"	48"
	X	2,600 lbs.	≤ 12'-0"	10'-0"	W14x43	W14x43	42"	10'-0"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		4,320 lbs.	≤ 20'-0"	10'-0"	W16x77	W16x77	48"	10'-0"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		2,310 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	36"	9'-9"	8-#8	#4 @ 42" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		3,660 lbs.	≤ 12'-0"	14'-0"	W14x61	W14x61	36"	11'-6"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		4,610 lbs.	≤ 16'-0"	14'-0"	W16x67	W16x67	48"	11'-9"	12-#8	#4 @ 6" o.c.	1 1/2"	24"	30"	3/8"	(4) - 1/2"	F1554-GR.55	3"	2"	64"
		5,760 lbs.	≤ 20'-0"	14'-0"	W18x86	W18x86	48"	13'-3"	12-#8	#4 @ 6" o.c.	1 1/2"	24"	30"	3/8"	(6) - 1/2"	F1554-GR.55	3"	2"	64"
		6,920 lbs.	≤ 24'-0"	14'-0"	W18x130	W18x130	48"	14'-6"	12-#8	#4 @ 6" o.c.	2"	24"	30"	CIP	(6) - 2"	F1554-GR.105	3"	2"	64"
		8,070 lbs.	≤ 28'-0"	14'-0"	W18x158	W18x143	54"	15'-0"	12-#8	#4 @ 6" o.c.	2"	24"	36"	CIP	(6) - 2"	F1554-GR.105	4"	2"	64"
		2,690 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	42"	10'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"	F1554-GR.55	2 1/2"	2"	64"
		4,040 lbs.	≤ 12'-0"	14'-0"	W14x61	W14x61	42"	11'-3"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	30"	3/8"	(4) - 1/2"	F1554-GR.55	3"	2"	64"
		5,380 lbs.	≤ 16'-0"	14'-0"	W16x67	W16x67	48"	12'-9"	12-#8	#4 @ 6" o.c.	2"	24"	30"	CIP	(6) - 1/2"	F1554-GR.55	3"	2"	64"
		6,720 lbs.	≤ 20'-0"	14'-0"	W18x97	W18x97	48"	14'-3"	12-#8	#4 @ 6" o.c.	2"	24"	30"	CIP	(6) - 1/2"	F1554-GR.105	3"	2"	64"
		8,070 lbs.	≤ 24'-0"	14'-0"	W18x143	W18x143	54"	15'-9"	12-#8	#4 @ 6" o.c.	2 1/2"	24"	36"	CIP	(6) - 2"	F1554-GR.105	4"	2"	64"
		9,410 lbs.	≤ 28'-0"	14'-0"	W18x175	W18x175	54"	18'-6"	14-#8	#4 @ 6" o.c.	3"	24"	36"	CIP	(6) - 2"	F1554-GR.105	4"	2"	64"

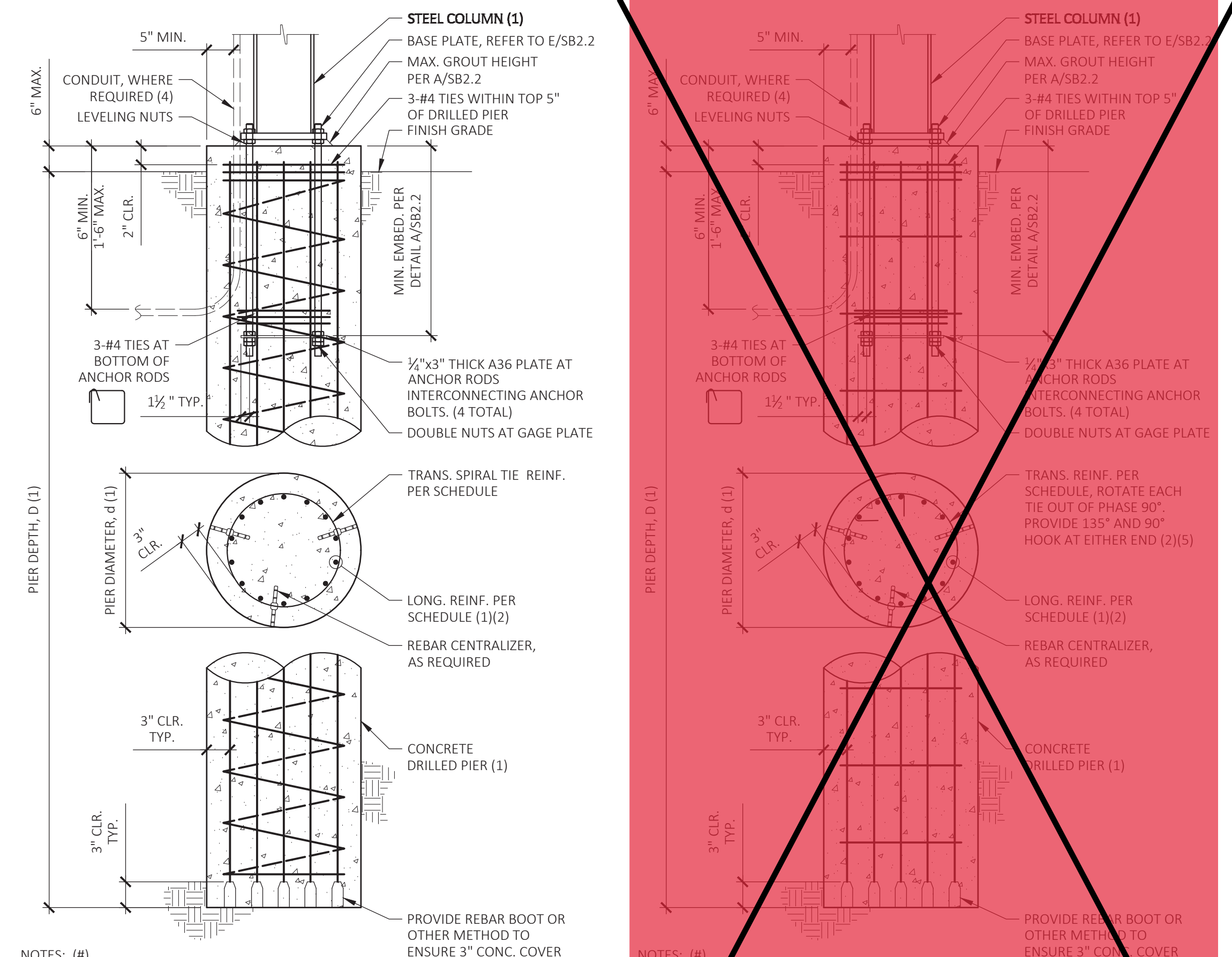
NOTES: (R)
 1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB2.2 FOR THE OPTION, SEE D/SB2.2 FOR SPIRAL OPTION
 2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION



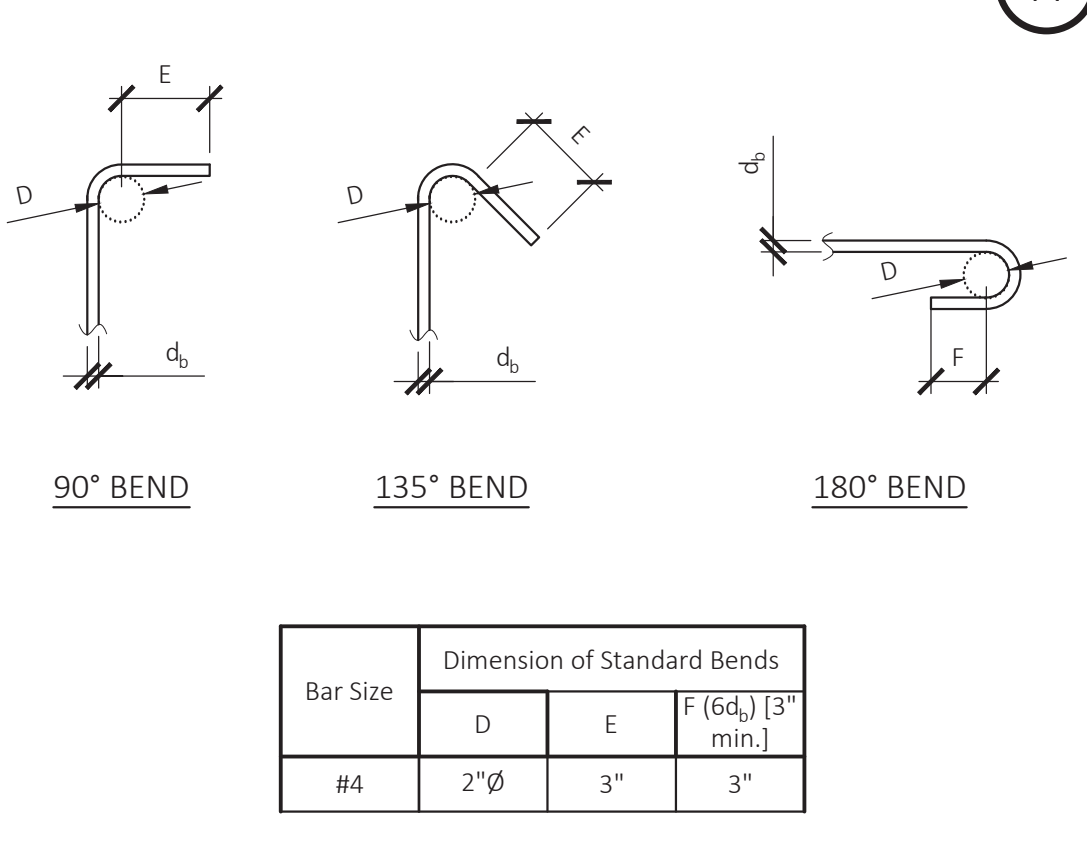
TWO COLUMN SCOREBOARD INSTALLATION



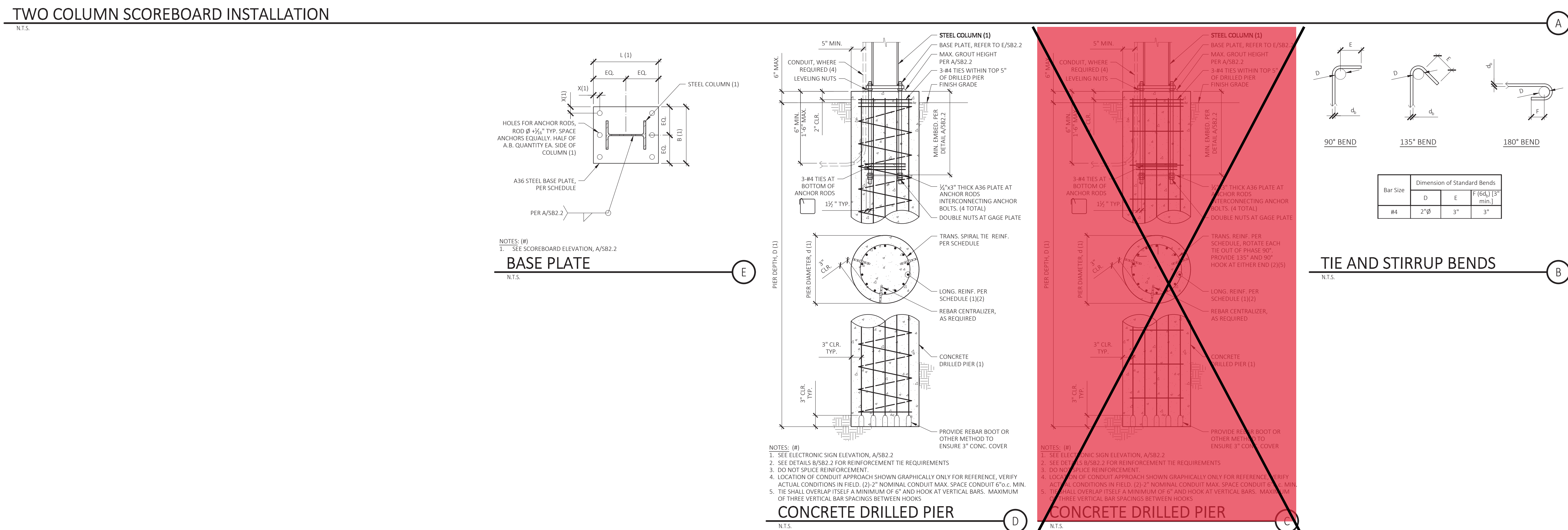
NOTES: (R)
 1. SEE SCOREBOARD ELEVATION, A/SB2.2
 N.T.S.



NOTES: (R)
 1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2
 2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT TIE REQUIREMENTS
 3. DO NOT SPLICE REINFORCEMENT.
 4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE. VERIFY ACTUAL CONDITIONS IN FIELD. (2) 2\"/>



NOTES: (R)
 N.T.S.



SSG
structural engineers

PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. 5405

DATE SIGNED: 08.09.2023
 PC SEOR REAL

THESE DRAWINGS, NOTES AND DETAILS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF SSG STRUCTURAL ENGINEERS, LLP. ALL DRAWINGS, INFORMATION, SPECIFICATIONS, IDEAS, DESIGN AND ARRANGEMENTS REPRESENTED WITHIN THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE REPRODUCED, COPIED, OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, CONTRACTOR OR ARCHITECT.

NEVCO

301 East Harris Avenue, Greenville, Illinois 62246
 Phone: 618.664.0860
 www.nevco.com

APPROVED ARCHITECT
 DIV. OF THE STATE ARCHITECT
 APP: 04-1223 PC
 REVIEWED FOR:
 SS [] PS [] ACS [] CG []
 DATE: 09/20/2023

PRE-CHECK (PC) DOCUMENT
 CODE: 2022

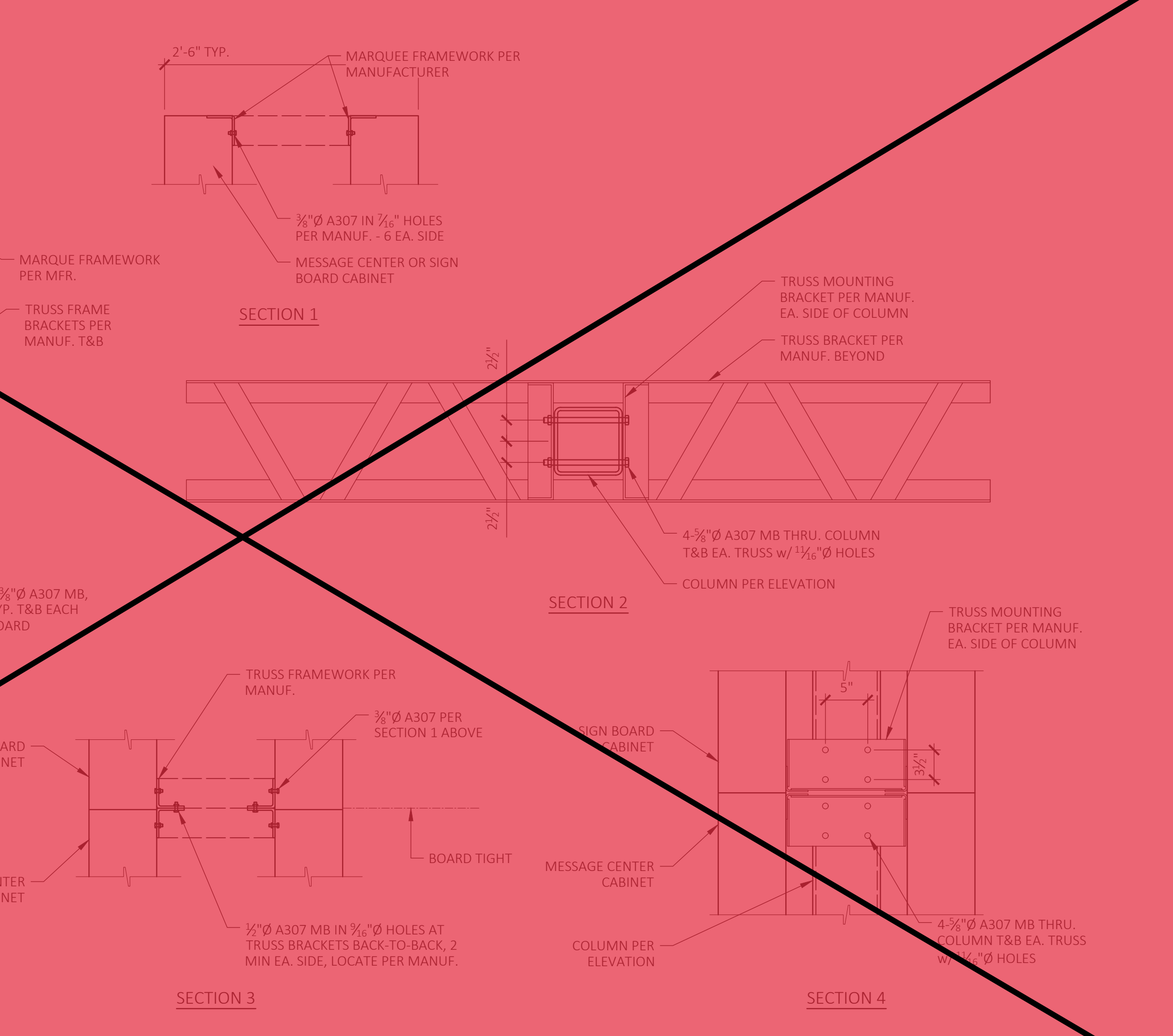
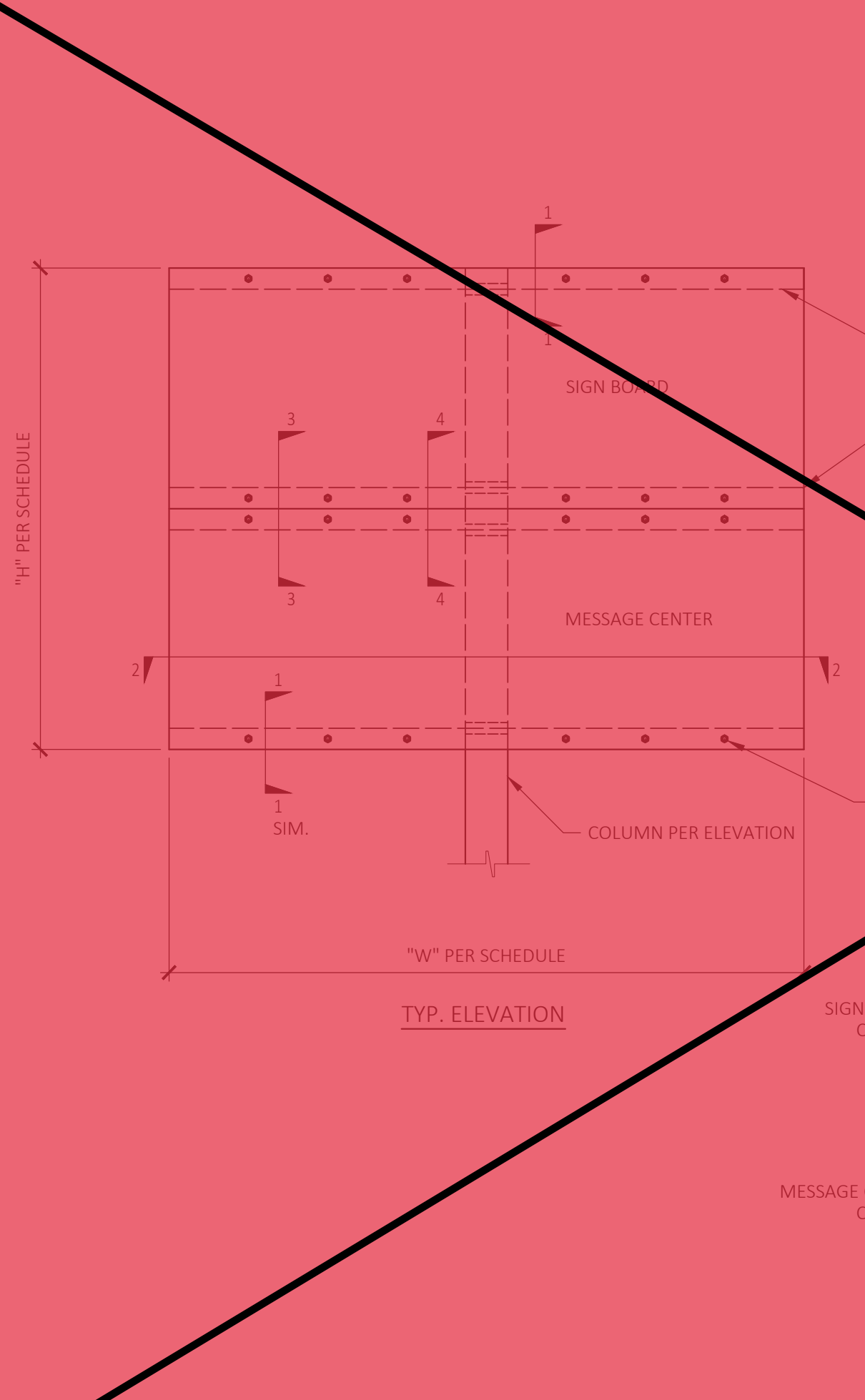
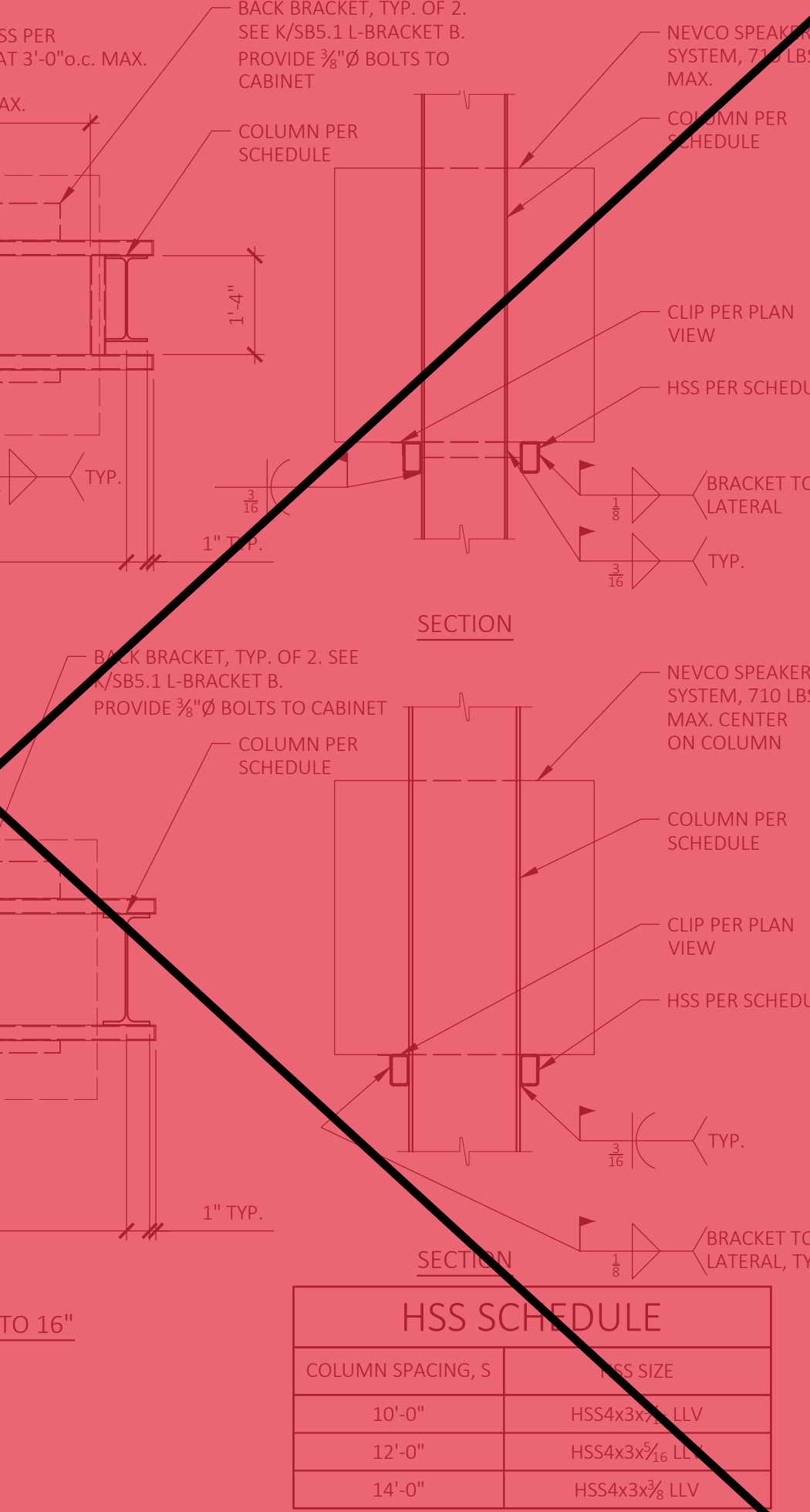
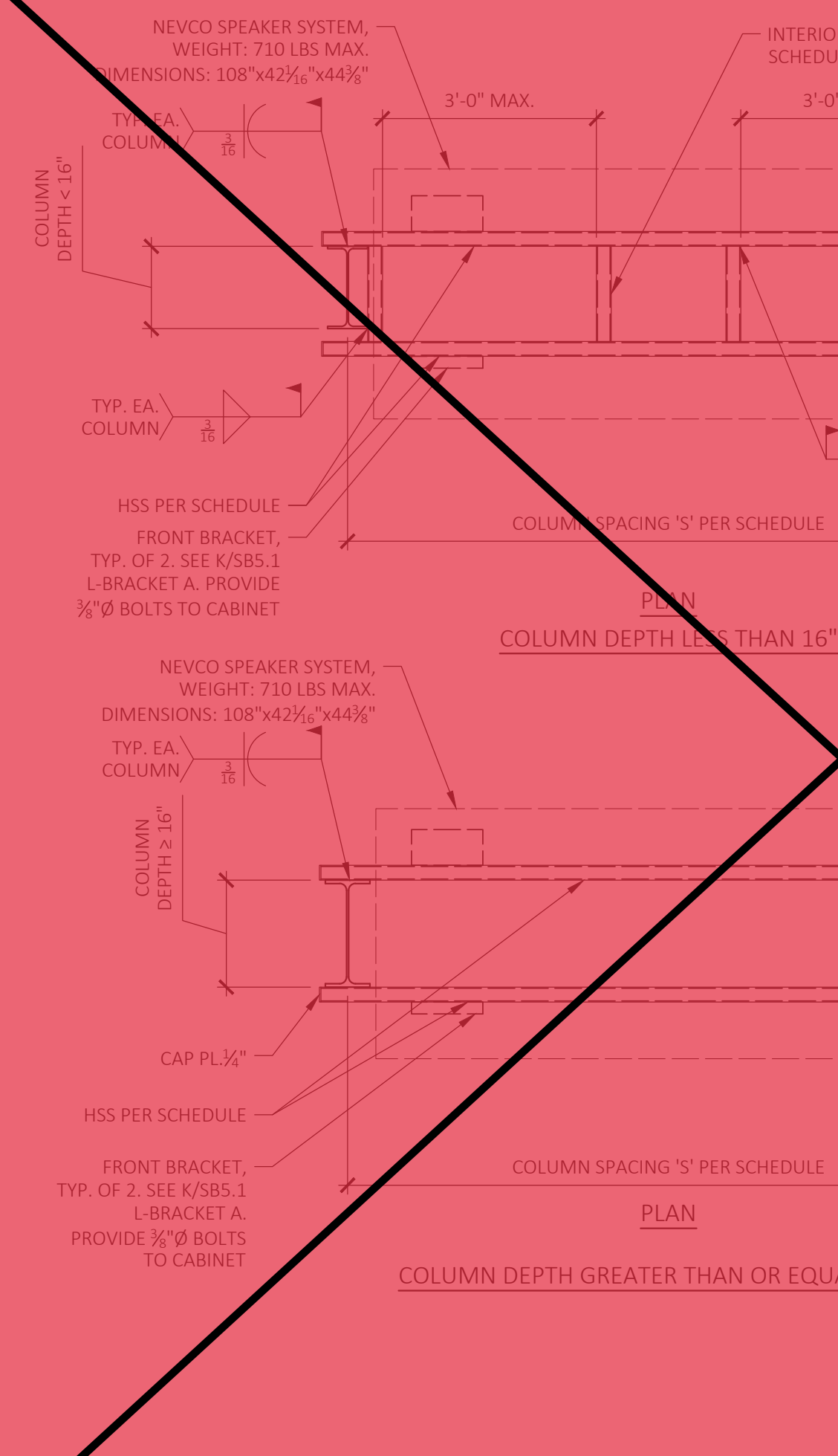
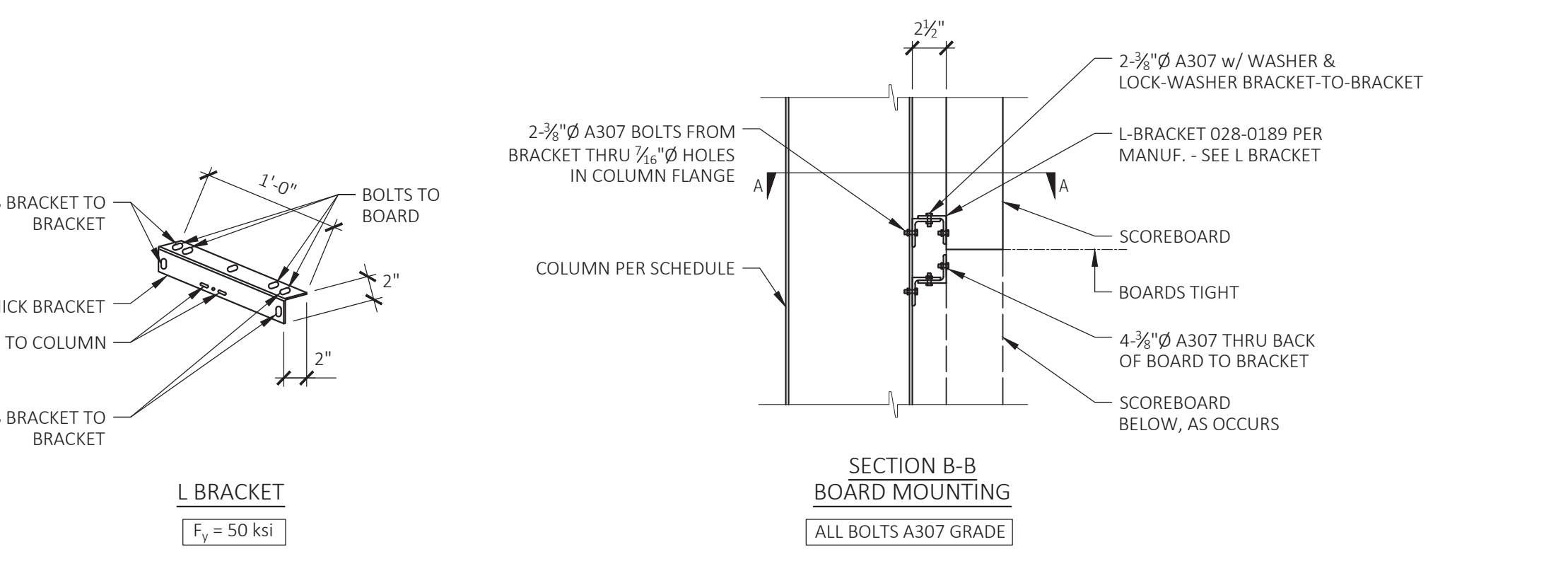
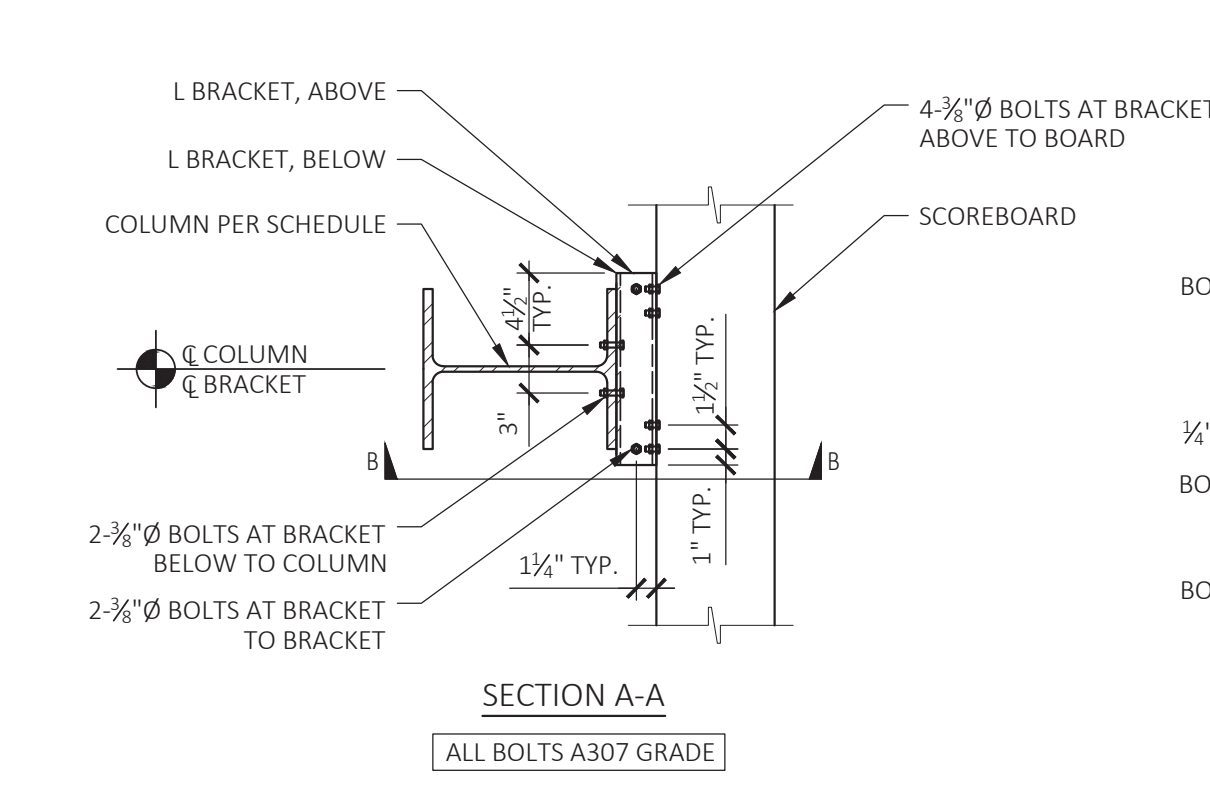
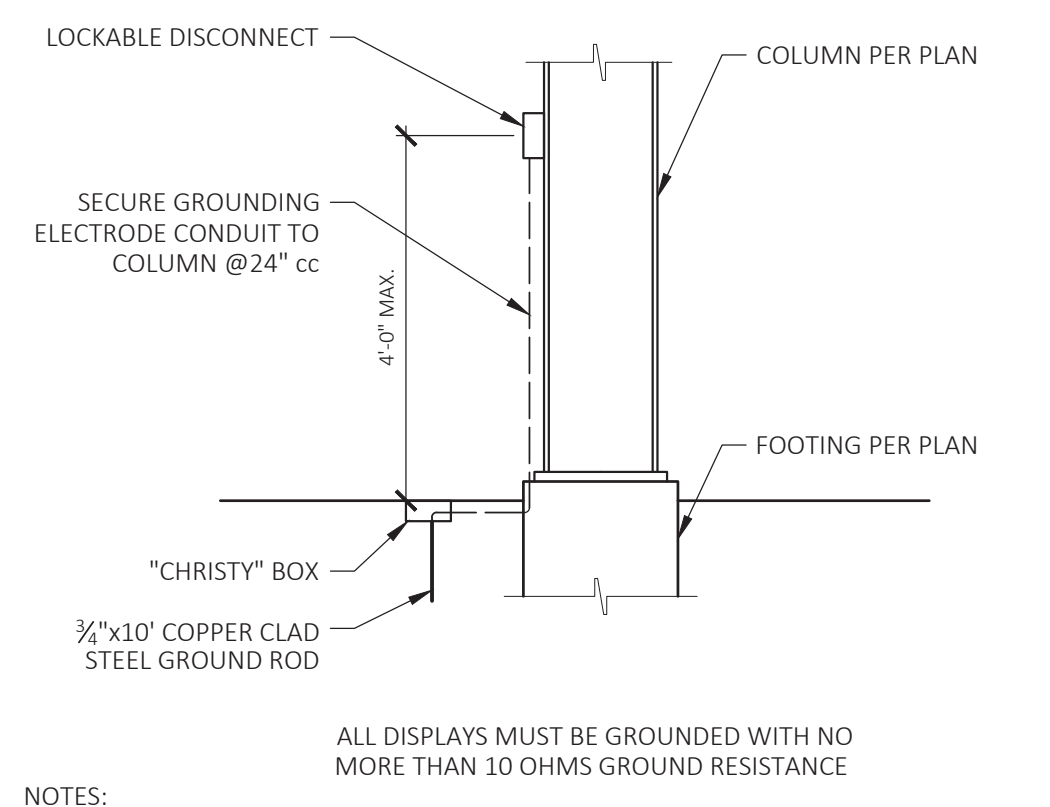
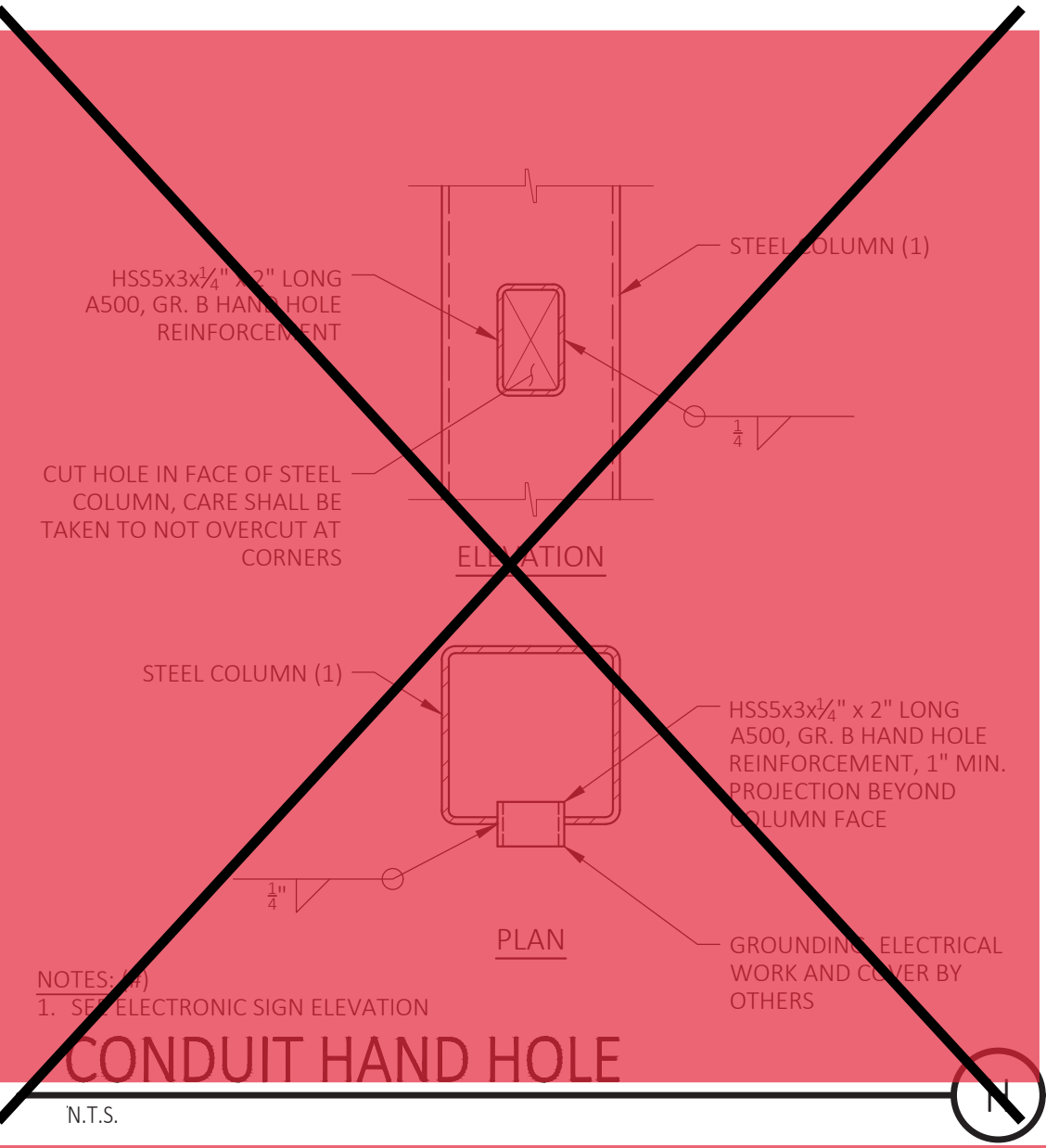
A separate project application for construction is required.

WEST CAMPUS HS, SCOREBOARD ASSEMBLY

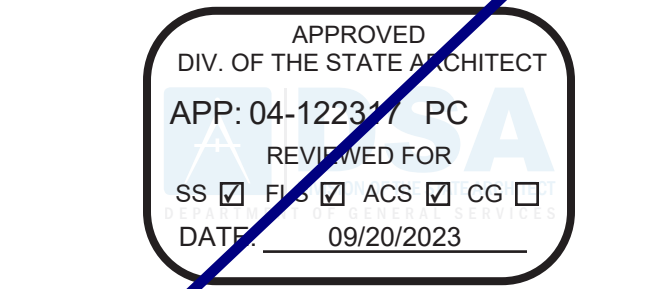
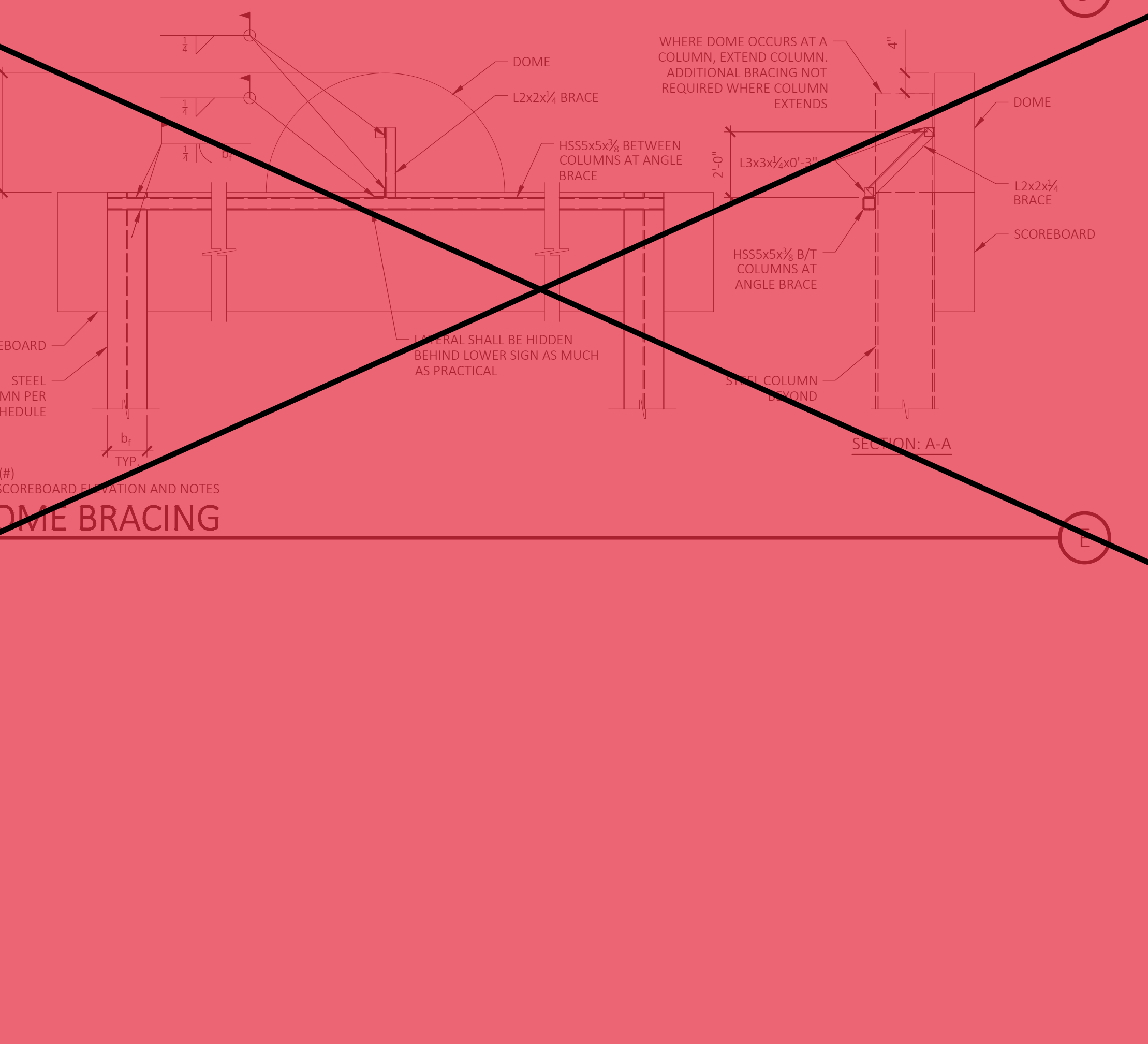
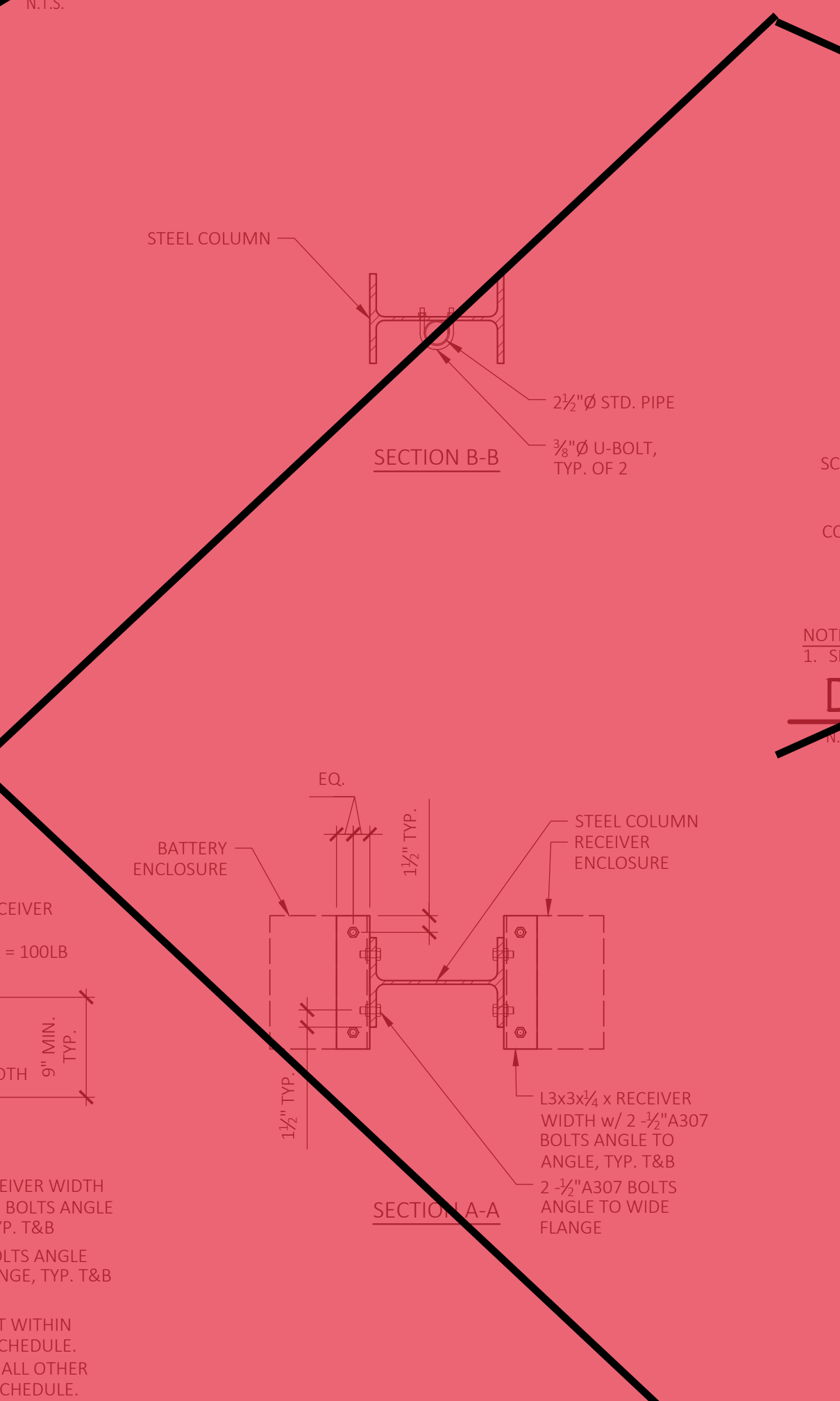
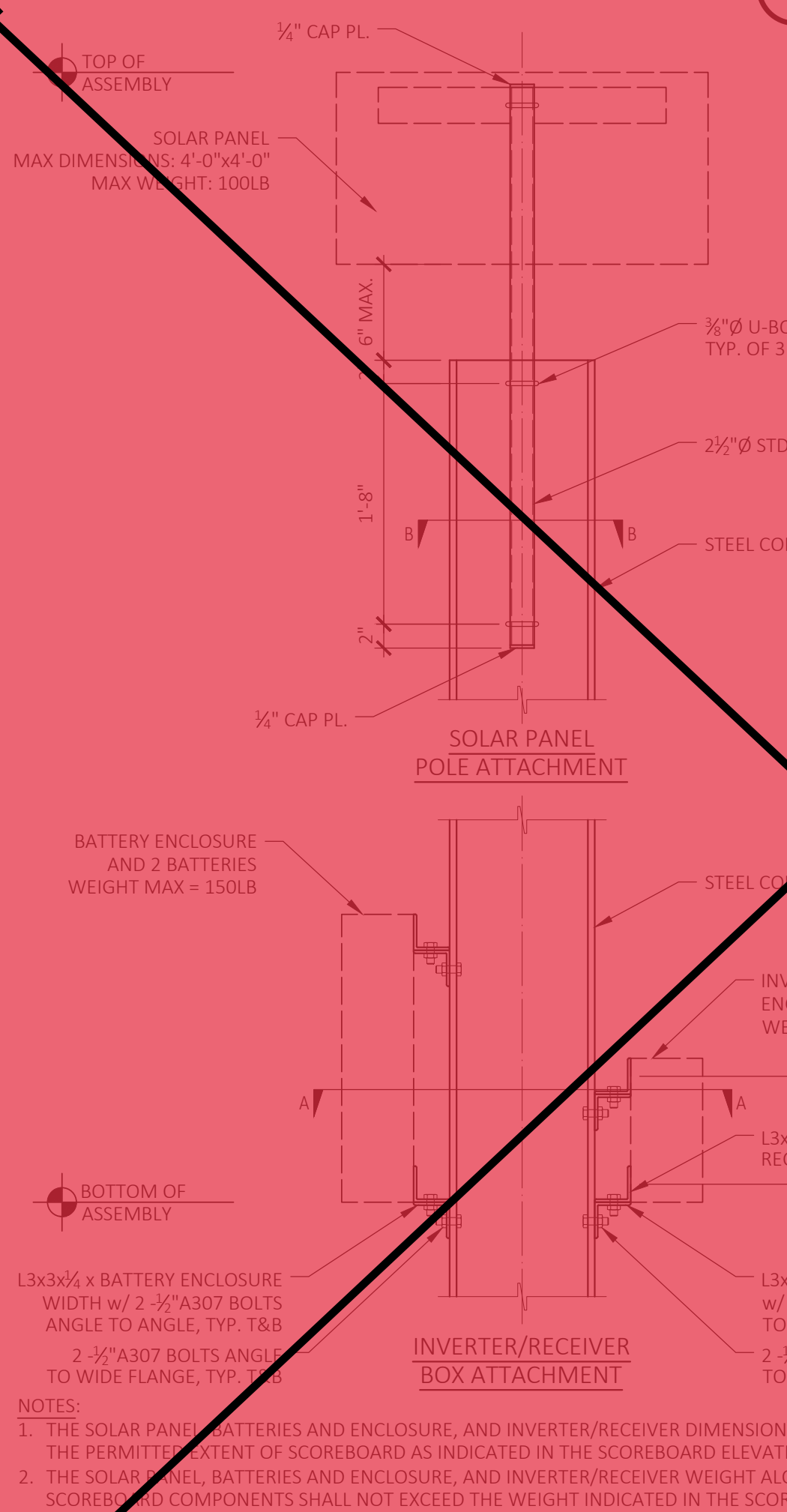
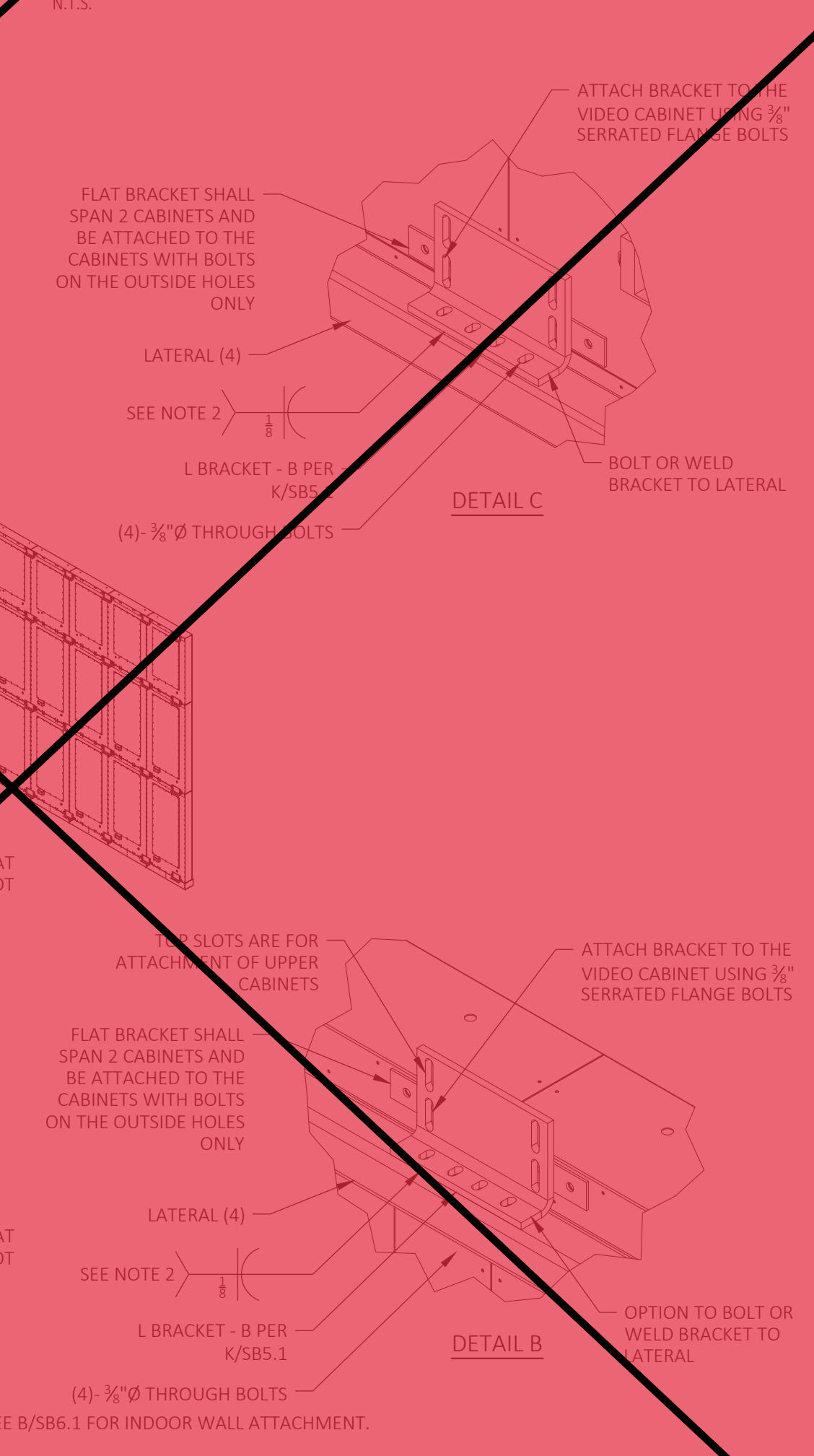
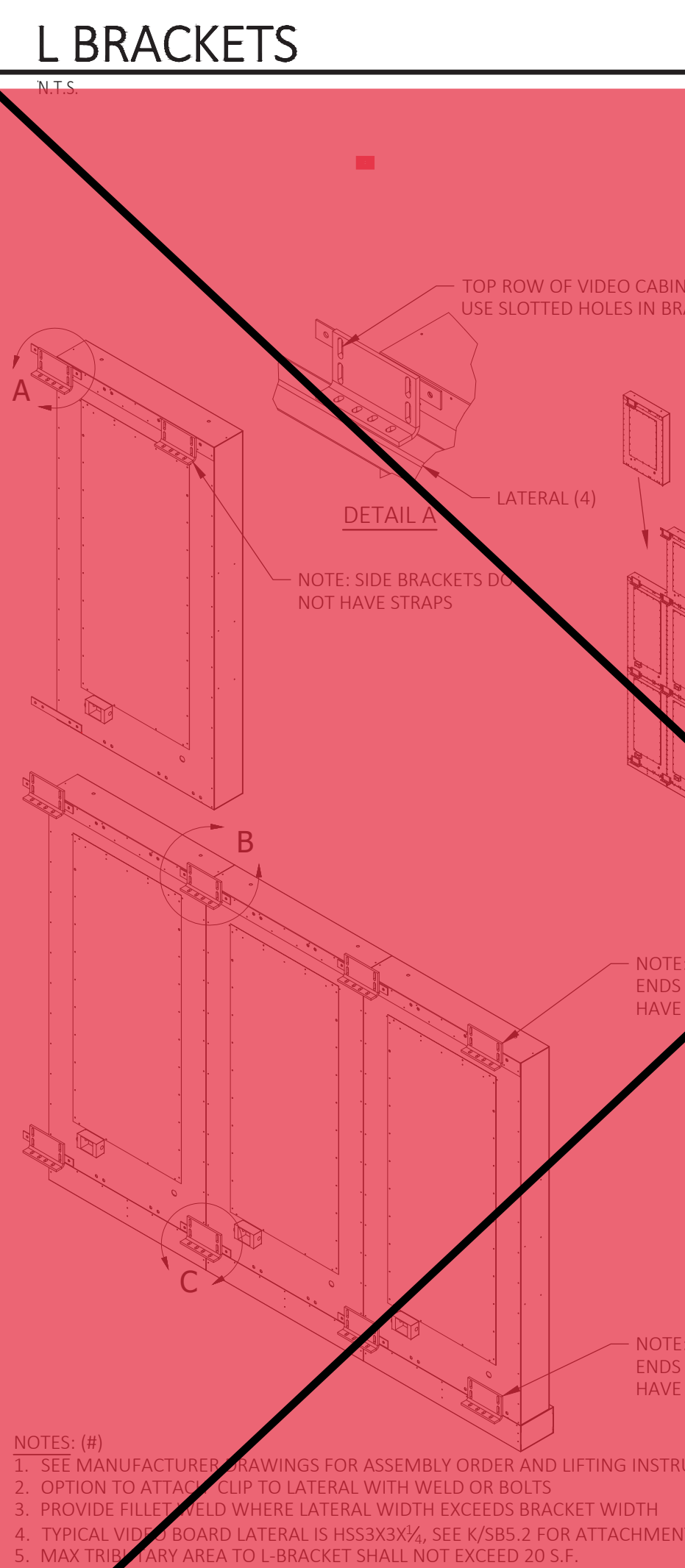
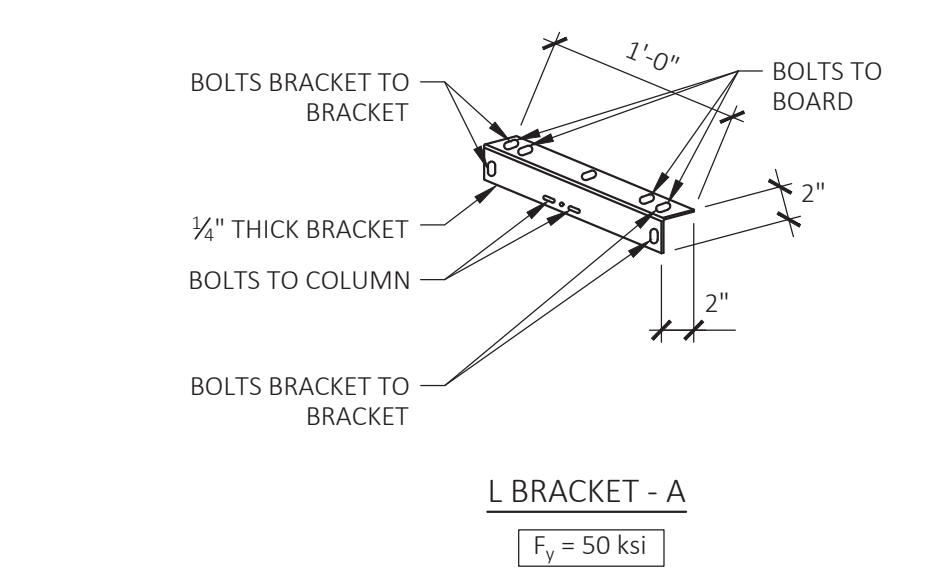
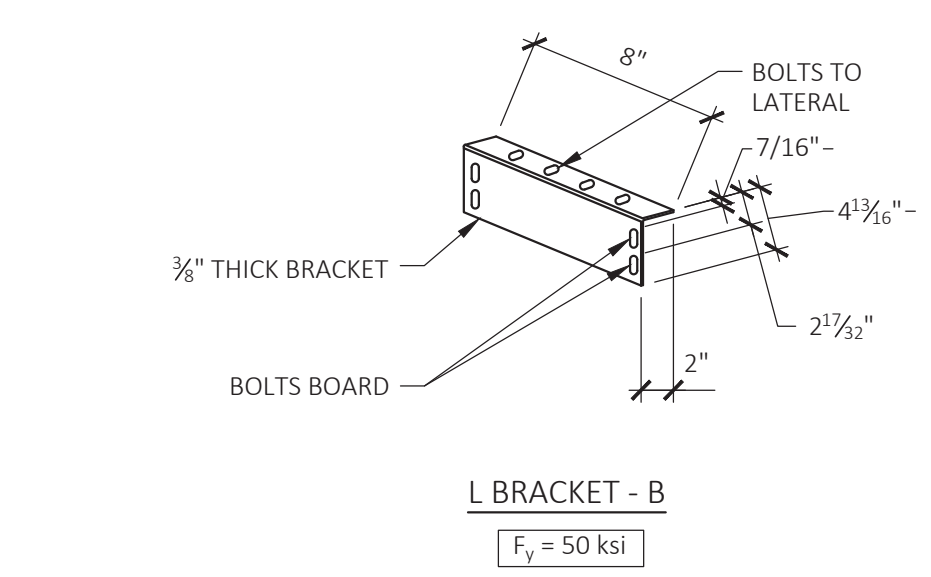
TWO COLUMN CAISSON - BOLTED

SHEET INFORMATION

DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S23109
SHEET	SB2.2



HSS SCHEDULE		
COLUMN SPACING, S	HSS SIZE	WEIGHT PER FOOT
10'-0"	HSS4x3x1/2 LLV	12.5
12'-0"	HSS4x3x1/2 LLV	12.5
14'-0"	HSS4x3x1/2 LLV	12.5



PRE-CHECK (PC) DOCUMENT
 CODE: 2022

A separate project application for construction is required.

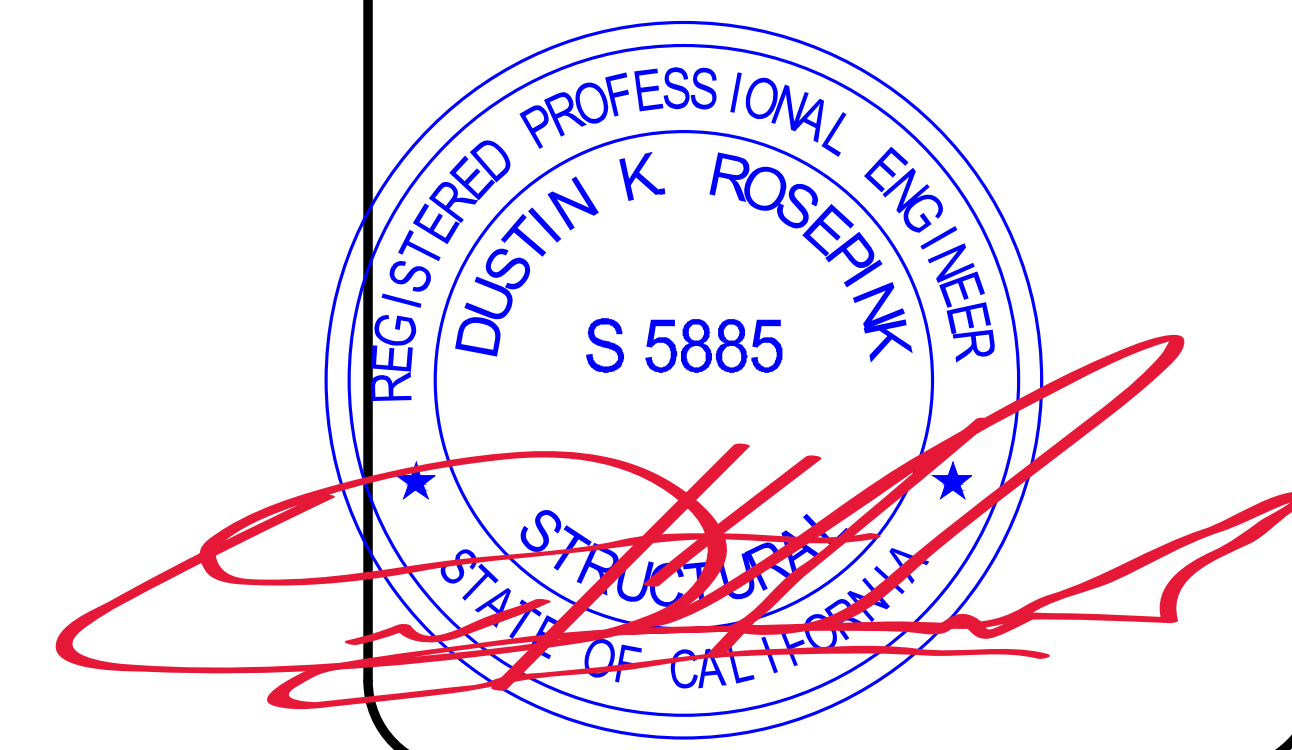
**WEST CAMPUS HS
 SCOREBOARD ASSEMBLY**

**ATTACHMENT
 DETAILS**

SHEET INFORMATION	
DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S23109
SHEET	SB5.1

ROMTEC

18240 NORTH BANK ROAD - ROSEBURG, OR 97470
 (541)-496-3541 FAX (541)-496-0803



PROJECT INFORMATION

PROJECT NAME WEST CAMPUS
 PROJECT I.D. WES01
 MODEL # 2022 SIERRA II 16'-8" W/ MECH RM
 SITE ADDRESS 5022 58TH ST
 CITY / STATE SACRAMENTO, CALIFORNIA

SHEET SCHEDULE

SHEET	CONTENTS
GO	TITLE SHEET / REVISION & SHEET SCHEDULE
G1	GENERAL NOTES / SYMBOL LEGEND
G2	DESIGN CRITERIA AND CODE SUMMARY
G3	DESIGN CRITERIA AND CODE SUMMARY
A1.1	FLOOR PLAN
A1.2	ADA CLEARANCES
A1.3	INTERIOR ELEVATIONS VIEWS
A2.1	EXTERIOR ELEVATION VIEWS
A2.2	EXTERIOR ELEVATION VIEWS
A3.1	SECTION VIEWS
A3.2	SECTION VIEWS
A4.1	WALL FINISH SCHEDULE (INTERIOR/EXTERIOR)
A5.1	DOOR SCHEDULE
A5.2	DOOR DETAILS
A6.1	VENT SCHEDULE & DETAILS
S7.1	FOUNDATION PLAN
S7.2	FOUNDATION DETAILS
S7.3	FOUNDATION DETAILS
S7.4	FOUNDATION DETAILS
S8.1	STRUCTURAL CMU PLAN
S8.2	STRUCTURAL CMU REBAR LAYOUT
S8.3	STRUCTURAL CMU DETAILS
S8.5	EQUIPMENT MOUNTING DETAILS
S8.4	STRUCTURAL CMU ELEVATIONS
S9.1	ROOF FRAMING PLAN
S10.1	ROOF CONNECTION DETAILS
S10.2	ROOF CONNECTION DETAILS
S10.3	ROOF CONNECTION DETAILS
R1	ROOFING PLAN
R2	ROOFING DETAILS
P1	PLUMBING SCHEDULE
P2	PLUMBING PLAN
M1	MECHANICAL PLAN
E1	ELECTRICAL SCHEDULE
E2	ELECTRICAL PLAN
E3	ELECTRICAL RISER DETAILS
E4	ELECTRICAL PANEL SCHEDULE
E5-E12	TITLE 24 DOCUMENTS

REV.	DATE	BY	DESCRIPTION
6	03/19/24	CR	GO,S8.5
5	03/14/24	CR	GO,P1,M1,E1
4	02/27/24	CR	GO,G3,A1.3,S7.1,S7.2,S9.1,S10.1,S10.2,S10.3,R1,R2,M1,E5-E12
3	02/15/24	CR	GO,G2,A1.1,A1.2,A2.1,A2.2,A3.1,A3.2,A4.1,A5.2,S7.1,S7.2,S8.1,S8.2,S8.4,S9.1,R1,P1,P2,E1,E2,E3,E4
2	12/07/23	CR	GO,G1,G2,A3.1,A5.2,S7.1,S7.2,S7.3,S8.2,S8.4,S10.1,S10.2
1	11/07/2023	CR	E4

REVISION SCHEDULE

© 2024 ROMTEC, INC. ALL RIGHTS RESERVED. THESE PLANS AND DRAWINGS MAY NOT BE REPRODUCED, ADAPTED OR FURTHER DISTRIBUTED, AND NO BUILDINGS MAY BE CONSTRUCTED FROM THESE PLANS, WITHOUT THE WRITTEN PERMISSION OF ROMTEC, INC.

ASTEL ENGINEERING
 26030 Acero, Suite 200
 Mission Viejo, CA 92691
 www.asteleng.com

18240 NORTH BANK ROAD
 ROSEBURG, OR 97470
 (541)-496-3541 FAX (541)-496-0803

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

PLAN SET#
WES01

DATE:
11/01/2023

REVISIONS

REV.	DATE	BY
3	02-15-2024	CR
4	02-27-2024	CR
5	03-14-2024	CR
6	03-19-2024	CR

DRAWN BY:
CR

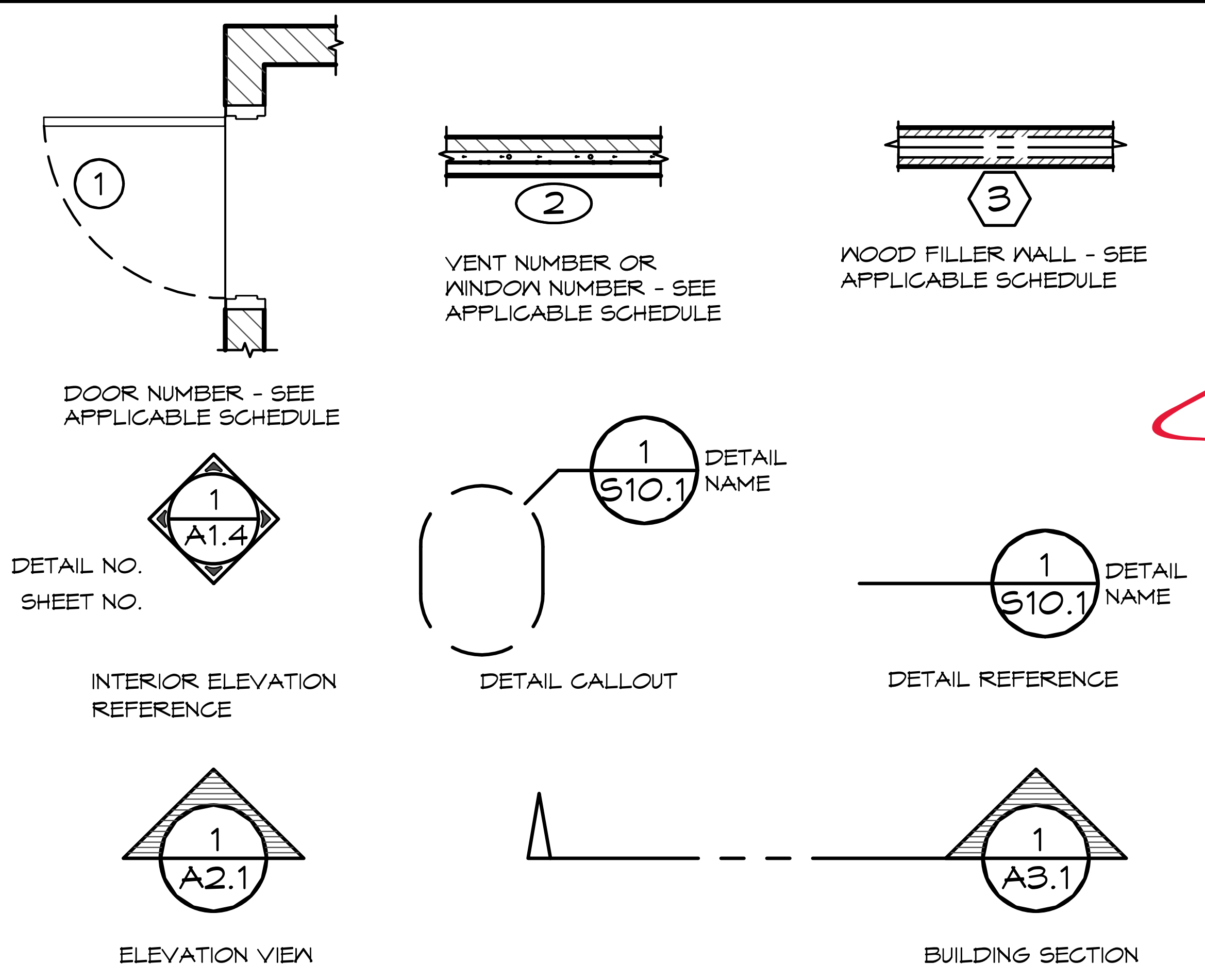


SHEET TITLE: TITLE SHEET
 REVISION & SHEET SCHEDULE

SHEET NO.

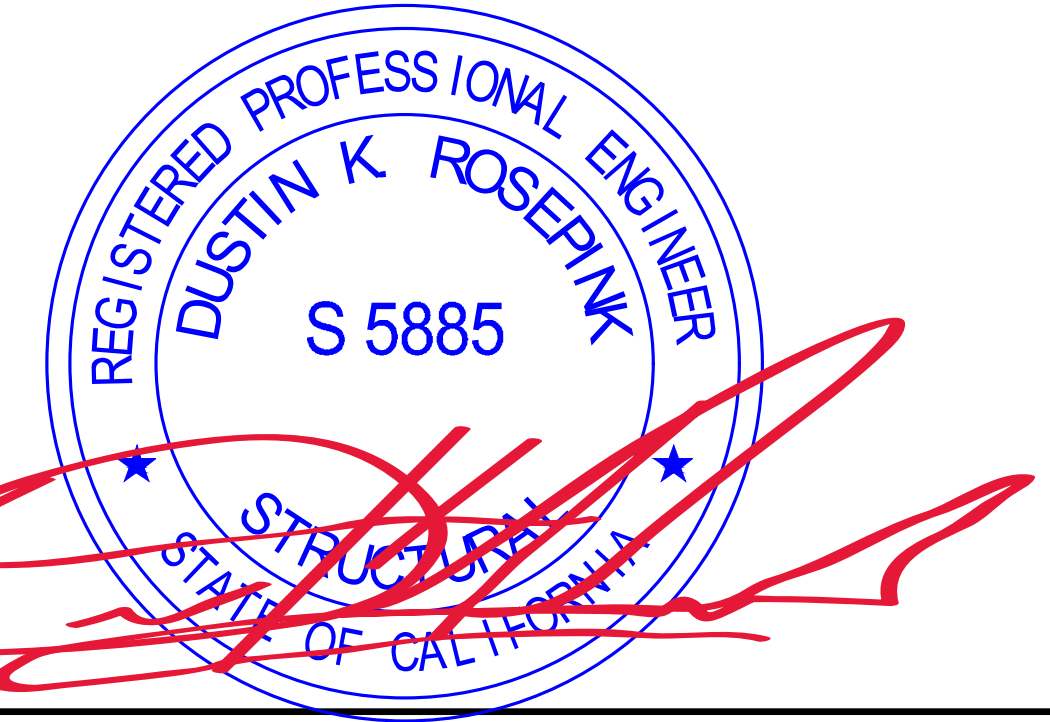
GO

SYMBOL LEGEND



ABBREVIATIONS

AB	ANCHOR BOLT	ND	NAPKIN DISPOSAL
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	OC	ON CENTER
BN	BOUNDARY NAIL	OCEW	ON CENTER EACH WAY
BOT	BOTTOM	OSB	ORIENTED STRAND BOARD
BP	BREAKER PANEL	P	PHOTO EYE
CJ	CONTROL JOINT	PCC	PORTLAND CEMENT COMPANY
CL	CENTER LINE	PEN	PANEL EDGE NAILING
CO	CLEAN OUT	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
db	NOMINAL BAR DIAMETER	PSI	POUNDS PER SQUARE INCH
DD	DIAPER DECK	PT	PRESSURE TREATED
DIA	DIAMETER	PTD	PAPER TOWEL DISPENSER
DISC	DISCONNECT	PV	PHOTO VOLTAIC
EM	ELECTRIC METER	R4S	ROUGH FOUR SIDES
EN	END NAIL	REQD	REQUIRED
EW	EACH WAY	RO	ROUGH OPENING
FD	FLOOR DRAIN	S4S	SURFACED FOUR SIDES
FF	FINISHED FLOOR	SCH	SCHEDULE
FG	FINISHED GRADE	SD	SOAP DISPENSER
FN	FIELD NAIL	SIP	STRUCTURAL INSULATED PANEL
FRP	FIBERGLASS REINFORCED PANEL	SJ	SAW JOINT
GB	GRAB BAR	SM	SHEET METAL
GLB	GLUE LAMINATED BEAM	SN	SHEAR NAILING
HB	HOSE BIBB	SS	STAINLESS STEEL
HD	HAND DRYER	SST	STRUCTURAL STEEL TUBE
HM	HOLLOW METAL (DOOR)	TBD	TO BE DETERMINED
HTR	HEATER	T&B	TOP & BOTTOM
HYP	HYPOTENUSE	T&G	TONGUE & GROOVE
I.S.	INSTALLER SUPPLIED	TLT	TOILET
KSI	KIPS PER SQUARE INCH	TP	TOILET PAPER DISPENSER
L	STRUCTURAL STEEL ANGLE	TS	TIMER SWITCH
LAV	LAVATORY	TSCD	TOILET SEAT COVER DISPENSER
LF	LIGHT FIXTURE	TYP	TYPICAL
MBP	MAIN BREAKER PANEL	UNO	UNLESS NOTED OTHERWISE
MD	MAIN DISCONNECT	VB	VAPOR BARRIER
MIN	MINIMUM	VTR	VENT THROUGH ROOF
MIR	MIRROR	WH	WATER HEATER
MO	MASONRY OPENING	WWM	WOVEN WIRE MESH
MR	METAL ROOFING	W/	WITH
MS	MILD STEEL		



GENERAL NOTES

- THIS PROJECT SHALL COMPLY WITH ALL 2022 CALIFORNIA BUILDING CODES AND STANDARDS IDENTIFIED ON SHEET G2. ALL WORK SHALL MEET OR EXCEED INDUSTRY STANDARDS FOR MATERIALS, WORKMANSHIP, ETC.
- CONTRACTOR SHALL REVIEW THE DRAWINGS THOROUGHLY BEFORE PROCEEDING WITH ANY WORK. ANY DISCREPANCIES FOUND WITHIN THESE DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF ROMTEC. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK HE KNOWS TO BE IN CONFLICT WITH OTHER WORK, OR IS NOT APPROVED BY CODE, UNTIL RESOLVED BY ROMTEC OR THE ENGINEER/ARCHITECT.
- CONTRACTOR SHALL MAINTAIN GENERAL LIABILITY INSURANCE AND WORKER'S COMP. INSURANCE AS PER SPECIFIC STATE MINIMUM REQUIREMENTS.
- FOOTINGS SHALL BE CONSTRUCTED ON UNDISTURBED NATIVE SOIL OR ENGINEER APPROVED FILL. CONTRACTOR TO VERIFY ASSUMED SOIL BEARING CAPACITY NOTED ON SHEET G2. SHOULD SOIL NOT MEET OR EXCEED THE ASSUMED SOIL BEARING CAPACITY, CONTRACTOR TO MODIFY SOIL CONDITIONS TO SATISFY CRITERIA OR NOTIFY THE STRUCTURAL ENGINEER TO REVISE DESIGN PER CONDITIONS ENCOUNTERED. BACKFILL AROUND BUILDING TO PROVIDE SLOPE AWAY FROM BUILDING NOT LESS THAN A 5% SLOPE FOR A MINIMUM DISTANCE OF 10' FROM THE BUILDING, PER 2022 CBC 1804A.3. REFER TO GEOTECHNICAL REPORT BY UES, No. 4630.2300077.0016, DATED NOVEMBER 1, 2023.
- CAST-IN-PLACE CONCRETE: 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 4" +/- 1" SLUMP, WITH MAX 1" AGGREGATE, AND ALL MATERIALS IN ACCORDANCE WITH ACI 318 STANDARD. FINE BROOM FINISH INTERIOR SURFACES AND EXTERIOR SLABS. JOINTS REQUIRED IN FLAT WORK, SEE FOUNDATION DETAILS FOR REQUIREMENTS.
 - CMU BLOCKS "MEDIUM WEIGHT DENSITY" ARE MANUFACTURED TO ASTM C90-16 STANDARDS WITH A MIN COMPRESSIVE STRENGTH $F_m = 2000$ PSI. ALL CMU BLOCKS MUST BE FULLY GROUTED IN 5 FT MAXIMUM LIFTS AND NOT BE WETTED. THE MORTAR TO BE USED SHALL BE TYPE S 2000 PSI MORTAR CONFORMING TO ASTM C270.

MASONRY (CONCRETE) GROUT: 2500 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 9" +/- 1" SLUMP, WITH MAX 1/2" AGGREGATE, AND TESTED IN ACCORDANCE TO MEET ACI 318. FINE OR COURSE GROUT MAY BE USED IN ACCORDANCE WITH 2022 CBC. CONSOLIDATE GROUT AT THE TIME OF PLACEMENT. CONSOLIDATE FOURS EXCEEDING 12 IN. IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. CONSOLIDATION AND RECONSOLIDATION ARE NORMALLY ACHIEVED WITH A MECHANICAL VIBRATOR. A LOW VELOCITY VIBRATOR WITH A 3/4 IN. HEAD IS USED.
- ANCHOR AND MACHINE BOLTS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE BOLTS SHALL BE INSTALLED PER TURN-OF-NUT INSTALLATION METHOD REQUIRED TURNS FOR PRE-TENSIONING FROM SNUG-TIGHT, U.N.O. IN THIS PLANSET OR BY ANCHOR, BOLT OR FASTENER MANUFACTURER. SCREWS AND MACHINE BOLT CALLOUTS ARE MINIMUM SIZE SIZE ALLOWED, ACTUAL SIZE MAY VARY. STEEL PLATES & SHAPES SHALL BE ASTM A36, $F_y = 36$ ksi. CONCRETE REINFORCING STEEL (REBAR): ASTM A615 60 ksi. (GRADE 60). WOOD FRAMING SHALL BE #2 & BTR DOUGLAS FIR, UNO. GLU-LAM BEAMS SHALL BE GRADE 24F-V4 OR AS STATED IN NOTE #10.
- QUESTIONS CONCERNING MATERIALS OR CONSTRUCTION CONTACT ROMTEC TECHNICAL ASSISTANCE AT: 541-496-3541
- ROMTEC SCOPE SUPPLY AND DESIGN SUBMITTAL (SSDS) IDENTIFY SPECIFIC MODEL, MANUFACTURER & BRAND OF ALL PLUMBING AND ELECTRICAL FIXTURES AND ACCESSORIES. REFER TO THE SSDS FOR SPECIFIC LIST OF ITEMS SUPPLIED BY ROMTEC, ANY ITEMS NOT LISTED IN THE SSDS IS ASSUMED SUPPLIED BY THE INSTALLER.
- THE OWNER / CONTRACTOR MAY EXERCISE DISCRETION IN SELECTING THE FINAL LOCATION FOR NON-DIMENSIONED ACCESSORIES AND FIXTURES (E.G., LIGHTS, COMFORT HEATERS, ETC.)
- GLUE LAMINATED BEAMS SHALL BE DOUGLAS FIR-LARCH, U.N.O. WITH 1-1/2" OUTER AND CORE LAMINATIONS AND SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER", AITC/A.P.A.-E.W.S. #117, ANSI/AITC A-190.1 AND ALL APPROVED SUPPLEMENTS THEREOF.
GLUE LAMINATED BEAM SHALL HAVE THE FOLLOWING GRADES (U.N.O. ON PLANS):
 - FOR SIMPLY SUPPORTED BEAMS.....COMBINATION 24F-V4
 - FOR CANTILEVERED BEAMS OR BEAMS CONTINUOUS OVER SUPPORTS.....COMBINATION 24F-V8 (20F-V12 FOR AC/AC)
 BEAMS SHALL CONFORM TO A.P.A.-E.W.S. OR A.I.T.C. INDUSTRIAL APPEARANCE GRADE, U.N.O.
 MOISTURE CONTENT OF THE LUMBER AT THE TIME OF GLUING SHALL NOT BE MORE THAN 16% WITH A MAX VARIATION OF 5% IN ANY BEAM. BEAMS SHALL BEAR LEGIBLE A.P.A.-E.W.S. OR A.I.T.C. GRADE STAMP. IF GRADE STAMP ILLEGIBLE OR REQUIRED BY BUILDING OFFICIALS, A "CERTIFICATE OF INSPECTION" BY AN APPROVED INSPECTION AGENCY SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO ERECTION.

NOTE: ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ANY SITE DESIGN OR ENGINEERING AND WILL NOT BE HELD ACCOUNTABLE OR LIABLE FOR ANY ISSUES RELATED TO THIS SITE. IT IS THE OWNER'S RESPONSIBILITY TO ACCURATELY LOCATE THIS BUILDING, SET FLOOR AND ADJACENT ELEVATIONS, DETERMINE SITE IS SUITABLE FOR CONSTRUCTION, VERIFY ALL UTILITIES, ETC.

RECYCLE

RECYCLE ALL USED SHIPPING MATERIALS AND LEFT OVER BUILDING MATERIALS

© 2024 ROMTEC, INC. ALL RIGHTS RESERVED. THESE PLANS AND DRAWINGS MAY NOT BE REPRODUCED, ADAPTED OR FURTHER DISTRIBUTED, AND NO BUILDINGS MAY BE CONSTRUCTED FROM THESE PLANS, WITHOUT THE WRITTEN PERMISSION OF ROMTEC, INC.

18240 NORTH BANK ROAD
 ROSEBURG, OR 97470
 26030 Acero, Suite 200
 Mission Viejo, CA 92691
 949.305.1150
 www.asteleng.com
 Project #:

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
 WEST CAMPUS
 SACRAMENTO, CALIFORNIA
 SHEET TITLE: GENERAL NOTES SYMBOL LEGEND

PLAN SET#	NES01	
DATE:	11/01/2023	
REVISIONS		
REV.	DATE:	BY:
1	10-23-2023	CR
2	12-07-2023	CR
4	02-27-2024	CR

DRAWN BY: CR

SHEET NO.

G1

CODES AND STANDARDS

2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 PART 2 (BASED ON 2021 IBC)
 2022 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3 (BASED ON 2020 NFPA, NEC)
 2022 CALIFORNIA MECHANICAL CODE, TITLE 24 PART 4 (BASED ON 2021 UMC)
 2022 CALIFORNIA PLUMBING CODE, TITLE 24 PART 5 (BASED ON 2021 UPC)
 2022 CALIFORNIA BUILDING ENERGY CODE, TITLE 24 PART 6
 2022 CALIFORNIA FIRE CODE, TITLE 24 PART 9, (BASED ON 2021 IFG)
 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

ACI AMERICAN CONCRETE INSTITUTE, ACI 318-19, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
 TMS THE MASONRY SOCIETY, TMS 402-16, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
 AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 "STEEL CONSTRUCTION MANUAL, 15TH EDITION"

CODE SUMMARY:

OCCUPANCY CLASS.: U
 CONSTRUCTION: VB
 AREA: 222 FT²
 AREA ALLOWABLE: 5500 FT²
 HEIGHT: 1 STORY
 HEIGHT ALLOWABLE: 1 STORY
 OCCUPANT LOAD: 4

DESIGN LOADS

ROOF: LIVE LOAD 20 PSF
 ROOF: DEAD LOAD 15 PSF

CBC SEISMIC DESIGN CATEGORY D
 DESIGN WIND SPEED (ULTIMATE) 95 MPH
 EXPOSURE C
 ALLOWABLE SOIL BEARING 2000 PSF

PER GEOTECHNICAL ENGINEERING REPORT
 BY UES, DATED NOVEMBER 1, 2023.

SEISMIC DESIGN DATA:

RISK CATEGORY: II
 IMPORTANCE FACTOR: 1.0
 SS: 0.546
 S1: 0.247
 SITE CLASS: D
 SMS: 0.744
 SM1: 0.494
 SDS: 0.496
 SD1: 0.329

SEISMIC DESIGN CATEGORY: D

R = 5

BASE SHEAR: V = 0.099 W

WIND DESIGN :

RISK CATEGORY: II
 WIND SPEED = 95 MPH
 EXPOSURE: C
 INTERNAL PRESSURE COEFF = ±0.18

BEARING WALL SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALL

ANALYSIS METHOD: EQUIVALENT STATIC FORCE METHOD

SPECIAL INSPECTIONS

SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION ARE REQUIRED FOR FOUNDATIONS SUPPORTING CMU WALLS

SPECIAL INSPECTIONS (TMS 402-16)

MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE (a)			REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	R	R	R	ART. 1.5
PRIOR TO CONSTRUCTION, VERIFICATION OF f_m AND f_{AAC} , EXCEPT WHERE SPECIFICALLY EXEMPT BY THE CODE.	NR	R	R	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R	ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF f_m AND f_{AAC} FOR EVERY 5,000 sq. ft. (465 sq.m).	NR	NR	R	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	R	ART. 1.4 B

(a) R=REQUIRED, NR=NOT REQUIRED

MINIMUM SPECIAL INSPECTION	REQUIRED FOR QUALITY ASSURANCE (a)			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTION OF SITE-PREPARED MORTAR	NR	P	P		ART. 2.1, 2.6 A, & 2.6 C
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART. 2.4 B & 2.4 H
C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART. 3.4 & 3.6 A
D. PRESTRESSING TECHNIQUE	NR	P	P		ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C(b)/P(c)	C		ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION	NR	P	C		ART. 2.1 C.1
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE	NR	P	C		ART. 3.2 D & 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 2.4 & 3.6
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	NR	P	P		ART. 2.6 B & 2.4 G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	P	P		ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	P	P		ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	P	P		ART. 3.3 F
D. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	NR	P	C	SEC. 1.2.1(e), 6.2.1 & 6.3.1	
E. WELDING OF REINFORCEMENT	NR	C	C	SEC. 6.1.6.1.2	
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F(4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F(32.2°C))	NR	P	P		ART. 1.8 C & 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	NR	C	C		ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	NR	C	C		ART. 3.5 & 3.6 C
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C(b)/P(c)	C		ART. 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	NR	P	C		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
 NR=NOT REQUIRED, P=PERIODIC, C=CONTINUOUS
 (b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
 (c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.



© 2024 ROMTEC, INC. ALL RIGHTS RESERVED. THESE PLANS AND DRAWINGS MAY NOT BE REPRODUCED, ADAPTED OR FURTHER DISTRIBUTED, AND NO BUILDINGS MAY BE CONSTRUCTED FROM THESE PLANS, WITHOUT THE WRITTEN PERMISSION OF ROMTEC, INC.

ASTEL ENGINEERING
 26030 Acero, Suite 200 949.305.1150
 Mission Viejo, CA 92691 www.asteleng.com
 Project #:
 18240 NORTH BANK ROAD
 ROSEBURG, OR 97470
 (541)496-3541 FAX (541)496-0803

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM
 WEST CAMPUS
 SACRAMENTO, CALIFORNIA
 SHEET TITLE: DESIGN CRITERIA AND CODE SUMMARY

PLAN SET#	NES01	
DATE:	11/01/2023	
REVISIONS		
REV.	DATE:	BY:
1	10-29-2023	CR
2	12-07-2023	CR
3	02-15-2024	CR
DRAWN BY: CR		

SHEET NO.

G2