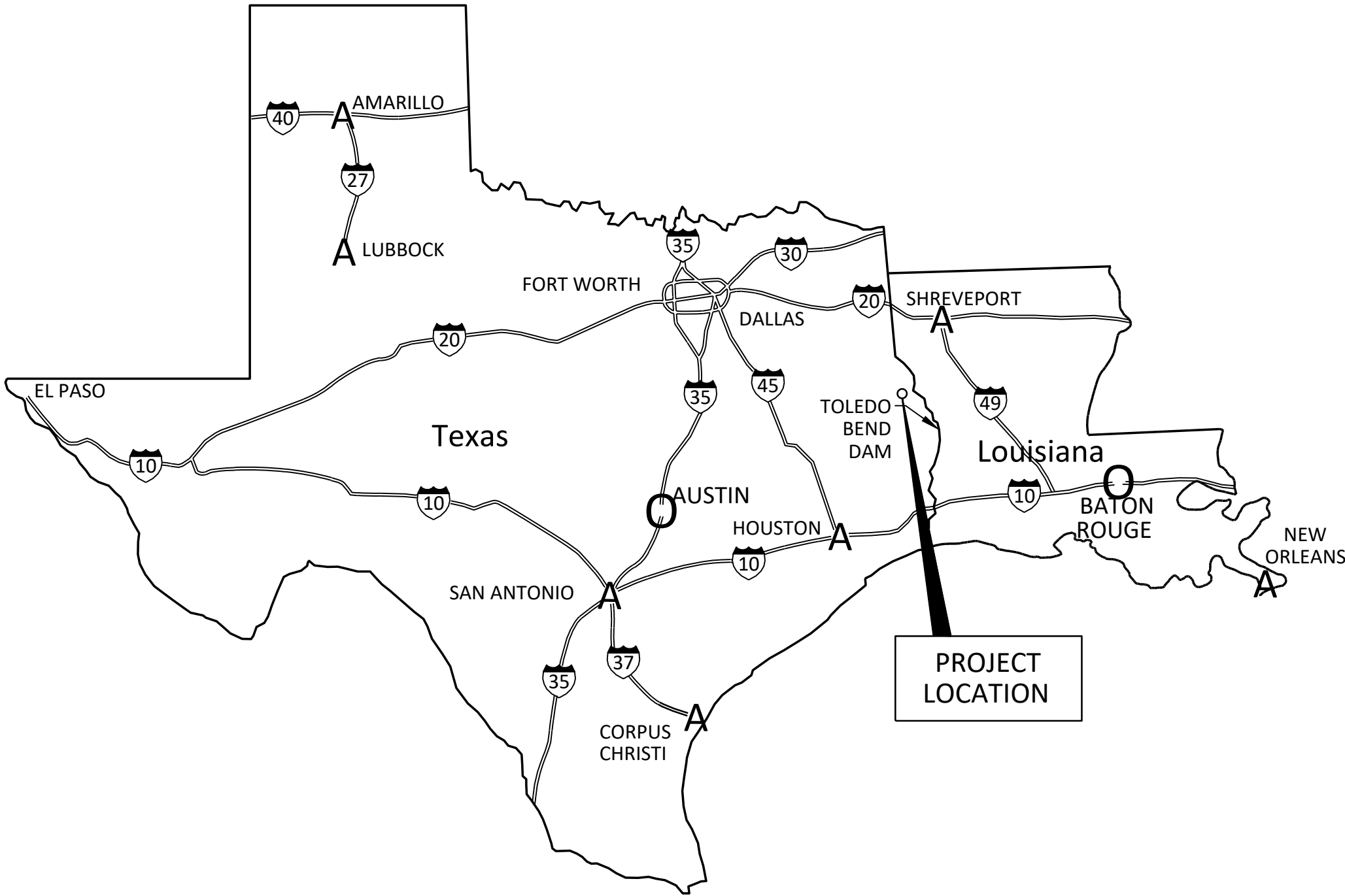


SABINE RIVER AUTHORITY OF TEXAS
PLANS FOR
SABINETOWN RECREATION AREA
(RFB 25-1202)
JULY 2024



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

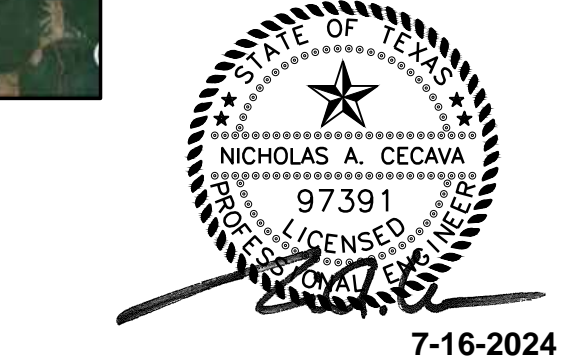
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INDEX OF SHEETS SHEET NO.	SHEET TITLE
<u>GENERAL</u>	
G1	COVER SHEET
G2	GENERAL NOTES
G3	LEGEND AND QUANTITIES
<u>CIVIL</u>	
C1	OVERALL SITE PLAN
C2	EXISTING TOPOGRAPHY PLAN
C3	DEMOLITION PLAN
C4	TYPICAL PARKING LOT SECTION
C5	PROPOSED SITE PROFILE
C6	PROPOSED PARKING LOT STAKING & GRADING PLAN
C7	PROPOSED OPEN YARD AREA STAKING & GRADING PLAN
C8	PROPOSED WATERLINE PLAN
C9	STRIPING AND SIGNAGE PLAN
C10	VANTAGE POINT ROAD RECONSTRUCTION PLAN
C11	BOAT RAMP STRIPING PLAN
C13	EROSION CONTROL AND TURF ESTABLISHMENT PLAN
C12	(BID ALTERNATE NO. 2 & 3) BOAT RAMP ACCESSABILITY PLAN
C14	SW3P NOTES
C15	SW3P EPIC
C16	SW3P DETAILS
C17	CIVIL DETAILS I
C18	CIVIL DETAILS II
C19	CIVIL DETAILS III
C20	CIVIL DETAILS IV
C21	CIVIL DETAILS V
C22	CIVIL DETAILS VI
<u>STRUCTURAL</u>	
S1	STRUCTURAL NOTES (01)
S2	STRUCTURAL NOTES (02)
S3	BOAT RAMP PLAN AND SECTIONS
S4	BOAT RAMP SECTIONS
S5	BOAT RAMP DETAILS
S6	CONCRETE STAIR DETAILS
S7	CONCRETE RETAINING WALL DETAILS
S8	BID ALTERNATE #2 STRUCTURAL DETAILS
S9	RETAINING WALL MISCELLANEOUS DETAILS
<u>LANDSCAPE ARCHITECTURE</u>	
L1	PARK SIGN
L2	RESTROOM 1
L3	RESTROOM 2
L4	RESTROOM 3
L5	FURNISHING
L6	(BID ALTERNATE NO. 2 & 3) FLOATING DOCKS
L7	(BID ALTERNATE NO. 2 & 3) FLOATING DOCKS
L8	(BID ALTERNATE NO. 2 & 3) FLOATING DOCKS
L9	TIMBER LOADING RAMPS
L10	(BID ALTERNATE NO. 2 & 3) PERMATRAK DETAILS
<u>ARCHITECTURE</u>	
A2.0	PAVILION FLOOR PLAN
A2.1	PAVILION FLOOR PLAN
A3.0	PAVILION ROOF PLAN AND REFLECTED CEILING PLAN
A4.0	PAVILION ELEVATIONS
A5.0	PAVILION SECTIONS
A6.0	PAVILION COLUMN SECTION AND DETAILS
A7.0	PAVILION SECTIONS AND DETAILS
S1.1	STRUCTURAL GENERAL NOTES
S2.1	FOUNDATION PLAN AT PAVILION
S3.1	FRAMING PLAN AT PAVILION
S4.1	FOUNDATION DETAILS AT PAVILION STAGE AREA
S5.1	FRAMING SECTIONS AT STAGE
S5.2	FRAMING SECTIONS AT PAVILION
<u>PLUMBING</u>	
P1	OSSF SITE PLAN
P2	OSSF SYSTEM OVERVIEW
P3	OSSF SYSTEM DETAILS
<u>ELECTRICAL</u>	
E1.00	SITE PLAN - ELECTRICAL
E2.00	RESTROOM AND PAVILION FLOOR PLANS - ELECTRICAL
E3.00	ONE-LINE - PANEL SCHEDULES
E4.00	LIGHT FIXTURE SCHEDULE - LIGHTING CONTROL SCHEDULES
	INTERIOR AND EXTERIOR LIGHTING CONTROL SCHEDULE
E5.00	ENTRY AND PARKING PHOTOMETRICS
E6.00	DOCK AND PAVILION PHOTOMETRICS-EXTERIOR PAVILION
	PHOTOMETRICS-INTERIOR
E7.00	DETAILS-ELECTRICAL
E8.00	DETAILS-ELECTRICAL

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GENERAL CONSTRUCTION NOTES:

1.

ALL EXISTING UTILITIES MAY NOT BE SHOWN AND MAY VARY FROM THE LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND VERIFYING ALL UTILITIES LOCATED ON SITE OR IN RIGHT-OF-WAY PRIOR TO CONSTRUCTION.
2.

THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY BALLARD CLC, INC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE SURVEY INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.
3.

CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, PAVEMENT, STRIPING, CURB, SIDEWALKS, DRIVEWAYS, FENCES, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS. DAMAGE TO ANY UTILITY SHALL BE REPAIRED BY THE UTILITY OWNER BUT AT CONTRACTOR'S EXPENSE.
4.

CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
5.

ALL WORK ON THESE PLANS SHALL BE DONE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS.
6.

DURING CONSTRUCTION OF THESE IMPROVEMENTS, ANY DEVIATION FROM THESE SPECIFICATIONS WILL REQUIRE APPROVAL IN WRITING FROM THE OWNER AND HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES.
7.

CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND REQUIREMENTS. CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE UTILITY COMPANIES AND OWNER'S INSPECTING AUTHORITIES.
8.

THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE REPLACED, AT CONTRACTOR'S EXPENSE, ALL CORNER MONUMENTS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING ALL LEGALLY REQUIRED PERMITS AND LICENSES, PAY ALL CHARGES AND FEES, GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK, AND ARRANGE FOR ALL INSPECTIONS, PER THE CONTRACT DOCUMENTS.
10.

ALL CONSTRUCTION STAKING WILL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
11.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING SANITARY FACILITIES FOR EMPLOYEES ON THIS PROJECT.
12.

CONTRACTOR IS RESPONSIBLE TO KEEP VANTAGE POINT ROAD SWEEPED AND MAINTAINED DURING THE CONSTRUCTION PHASE. ALL SEDIMENT OR OTHER DEBRIS THAT IS TRACKED ON SPILLED ONTO THE ROADWAY MUST BE REMOVED IMMEDIATELY.

EROSION CONTROL NOTES:

1.

EROSION CONTROL MEASURES SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND MAINTAINED TO FULLY FUNCTION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED THAN WHAT IS SHOWN ON THE PLANS.
2.

THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE STORM WATER POLLUTIUN PREVENTION PLAND AND TPDES.

3.

PLACE STABILIZATION FABRIC ON ALL SLOPES STEEPER THAN 3H:1V. CONTRACTOR SHALL PLACE FOUR (4) INCHES OF TOPSOIL (LOOSE) ON ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS UNLESS OTHERWISE NOTED. SEED OR SOD ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS AND MAINTAIN SAME UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. THE SPECIFIC PLANT MATERIALS PROPOSED TO PROTECT FILL AND EXCAVATED SLOPES SHALL BE SUITABLE FOR USE UNDER LOCAL CLIMATE AND SOIL CONDITIONS. IN GENERAL, HYDROSEEDING OR SODDING BERMUDA GRASS IS ACCEPTABLE DURING THE SUMMER MONTHS (MAY 1ST TO AUGUST 31ST). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE.
4.

AT COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS.
5.

SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL REVEGETATION HAS BEEN COMPLETED.
6.

DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RE-SEEDED OR RE-SODDED, IF NECESSARY.
7.

THERE IS TO BE ONE CONCRETE WASH-OUT PIT LOCATED ON THE SITE. THE LOCATION OF THE CONCRETE WASH-OUT PIT IS TO BE LOCATED NEAR THE EXISTING CONSTRUCTION ENTRANCE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY DISPOSE OF ALL EXCESS CONCRETE MATERIAL.
8.

LOCATION OF CONSTRUCTION EXITS SHALL BE PLACED IN THE FIELD AND APPROVED BY THE ENGINEER.
9.

THE CONTRACTOR WILL BE REQUIRED TO FILE A NOTICE OF INTENT (NOI) PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MONITOR SITE EROSION THROUGHOUT THE CONSTRUCTION PROCESS. ONCE THE PROJECT IS COMPLETED, THE CONTRACTOR SHALL FILE THE REQUIRED NOTICE OF TERMINATION (NOT) WITH THE TCEQ.
10.

ALL WASTE MANAGEMENT PRACTICES (EXISTING HAZARDOUS WASTE, SOLID WASTE, CONCRETE WASTE, ETC.) SHALL COMPLY WITH TCEQ REQUIREMENTS.

DEMOLITION NOTES:

1.

NO EARTH-DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN OBTAINED AND PERIMETER EROSION CONTROL MEASURES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL T.P.D.E.S. PERMIT FRO STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.
2.

CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION, AND DISPOSAL OF ALL DEMOLITION DEBRIS.
3.

THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR DEMOLITION OF STRUCTURES.
4.

NOTES SHOWN HEREON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE.
5.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND DETERMINING THE EXTENT OF EXISTING IMPROVEMENTS TO BE REMOVED FROM THE SITE.
6.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANIES ON THE DISCONNECTION OR TERMINATION OF ANY UTILITIES SERVING THIS AREA.
7.

ALL FENCING AND OTHER MAN-MADE ELEMENTS, ETC., WITHIN CONSTRUCTION AREA, UNLESS OTHERWISE IDENTIFIED, SHALL BE REMOVED AND DISPOSED OF OFF SITE.
8.

REMOVAL OF ANY TREES OTHER THAN THOSE SPECIFIED IN THESE PLANS SHALL BE COORDINATED WITH THE OWNER. THIS REMOVAL SHALL INCLUDE THE ROOT BALL OF THE TREES.
9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED DEMOLITION PERMITS.
10.

REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION, SITE PREPARATION AND EARTHWORK FOR THIS PROJECT.

PAVING / DRAINAGE NOTES:

1.

ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE OF MAX. 5.0% AND CROSS SLOPE OF MAX. 2.0%, PER TAS REQUIREMENTS.
2.

RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE SITEWORK SPECIFICATIONS & DETAILS.
3.

IF THE CONTRACTOR RELOCATES BENCHMARK WITH A NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.010 FEET.
4.

CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT, WHERE APPLICABLE.
5.

CONTRACTOR SHALL MATCH EXISTING CURB AND GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT AT ADJACENT ROADWAYS.
6.

ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE WITH EXISTING, WHERE APPLICABLE.
7.

DRAINAGE SHALL BE MAINTAINED AWAY FROM FOUNDATIONS, BOTH DURING

AND AFTER CONSTRUCTION.

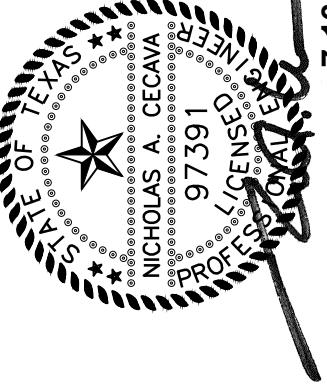
8.

ALL EARTHWORK AND PAVING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT AND AS NOTED ON PLANS.
9.

ALL PROPOSED CONTOURS AND SPOT GRADES ARE FOR THE FINISHED SURFACE. CONTRACTOR SHALL ADJUST ROUGH GRADING AS NEEDED TO ACCOUNT FOR IMPORT MATERIALS.
10.

ALL PAVING AND DRAINAGE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS. WHERE ANY QUESTIONS ARISE AS TO THE INTERPRETATION OF THE STANDARDS OF DESIGN, PLEASE CONTACT THE ENGINEER.

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144



7-16-2024



SABINE RIVER AUTHORITY

SABINETOWN RECREATION AREA

GENERAL

GENERAL NOTES

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985				
					DATE	7/17/24	DESIGNED	NAC	
					DRAWN	DKS			
						CHECKED	RG		
							APPROVED	NAC	
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SHEET

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BASE BID - ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
PART A - SITE WORK			
A1	MOBILIZATION (5% MAX, BASE BID)	1	LS
A2	EXCAVATION	30500	CY
A3	EMBANKMENT (TY D) (FINAL)	35000	CY
A4	CLEARING AND GRUBBING	4363	SY
A5	EROSION CONTROL BLANKET	5638	SY
A6	HYDROMULCH	45575	SY
A7	SODDING	6204	SY
A8	4" TOPSOIL	6204	SY
A9	INSTALL NEW SILT FENCE	500	LF
A10	REMOVE SILT FENCE	4626	LF
A11	STORM WATER POLLUTION PREVENTION PLAN	1	LS
PART B - PARKING AREA			
B1	12" COMPACTED SUBGRADE	31423	SY
B2	GEOGRID (TXDOT, TYPE II)	31423	SY
B3	6" LIMESTONE FLEXIBLE BASE, TYPE A, GRADE 1-2	5237	CY
B4	PRIME COAT (0.15 GAL/SY)	4591	GAL
B5	2" HMA-C, TYPE C	30610	SY
B6	PAVEMENT MARKING, TYPE 2, (W) (4")	15397	LF
B7	PAVEMENT MARKING, TYPE 2, (V) (4")	3750	LF
B8	PAVEMENT MARKING, TYPE 2, (V) (4") (DBL)	369	LF
B9	PAVEMENT MARKING, TYPE 2, (RED) (4")	335	LF
B10	PAVEMENT MARKINGS (RED) (FIRST RESPONDER PARKING)	2	EA
B11	PAVEMENT MARKINGS, TYPE 2, (W) (24")	254	LF
B12	PAVEMENT MARKINGS (W) (NO PARKING)	4	EA
B13	PAVEMENT MARKINGS (W) (ARROW)	30	EA
B14	PAVEMENT MARKINGS (W) (WORD)	1	EA
B15	24" LAYDOWN CURB	233	LF
B16	CONCRETE VALLEY GUTTER	52	LF
B17	SMALL RSD SIGN ASSM	6	EA
B18	ACCESSIBLE PAINTED SYMBOL	7	EA
B19	ACCESSIBLE PARKING SIGN	7	EA
B20	PRECAST WHEEL STOPS	7	EA
PART C - VANTAGE POINT ROADWAY EXTENSION			
C1	EXCAVATION	150	CY
C2	EMBANKMENT (TY A) (FINAL)	50	CY
C3	GEOGRID (TXDOT, TYPE II)	903	SY
C4	6" LIMESTONE FLEXIBLE BASE, TYPE A, GRADE 1-2	151	CY
C5	PRIME COAT (0.15 GAL/SY)	118	GAL
C6	2" HMA-C, TYPE C	783	SY
PART D - WATERLINE			
D1	2" WATER SERVICE LINE	1540	LF
D2	3/4" HOSE BIB AND VALVE BOX	1	EA
D3	2" GATE VALVE AND VALVE BOX	3	EA
PART E - STORM SEWER			
E1	15" CLASS III RCP	93	LF
E2	15" S.E.T.	2	EA
PART F - BOAT RAMP			
F1	DEWATERING (COFFERDAMMING)	1	LS
F2	SHORELINE EXCAVATION	4500	CY
F3	FILTER FABRIC	2950	SY
F4	BOAT RAMP 8" GRAVEL BASE	685	CY
F5	CIP CONCRETE BOAT RAMP SLAB	675	CY
PART G - SITE FACILITIES			
G1	PREFABRICATED RESTROOM BUILDING	1	LS
G2	EXCAVATION FOR RESTROOM BUILDING FOUNDATION	252	CY
G3	SELECT FILL FOR RESTROOM BUILDING FOUNDATION	272	CY
G4	GRAVEL BASE FOR RESTROOM BUILDING FOUNDATION	10	CY
G5	ONSITE SEWAGE FACILITY	1	LS
G6	PAVILION	1	LS
G7	PAVILLION FOUNDATION	1	LS
G8	6" CONCRETE DRIVEWAY	167	SY
G9	PARK ENTRY SIGNAGE	1	LS
G10	CONCRETE LOW RETAINING WALL	95	LF
G11	4" CONCRETE SIDEWALK AROUND PAVILION AND RESTROOM	891	SY
G12	CONCRETE RETAINING WALL AND STAIRS	310	CY
G13	RETAINING WALL DRAINAGE	360	LF
G14	CABLE GUARD RAIL AT TOP OF RETAINING WALL AND STAIRS	270	LF
PART H - ELECTRICAL & ILLUMINATION			
H1	SITE PRIMARY POWER	1	LS
H2	SITE BRANCH POWER/CIRCUITS	1	LS
H3	FIXTURES	1	LS
H4	GEAR AND EQUIPMENT	1	LS
PART I - ALTERNATE #1 - OVERFLOW PARKING LOT EXPANSION			
I1	MOBILIZATION (5% MAX, PART I)	1	LS
I2	12" COMPACTED SUBGRADE	13500	SY
I3	GEOGRID (TXDOT, TYPE II)	13500	SY
I4	6" LIMESTONE FLEXIBLE BASE, TYPE A, GRADE 1-2	2170	CY
I5	PRIME COAT (0.15 GAL/SY)	1950	GAL
I6	2" HMA-C, TYPE C	13000	SY
I7	PAVEMENT MARKING, TYPE 2, (W) (4")	5000	LF
I8	SITE ELECTRICAL & ILLUMINATION (OVERFLOW PARKING AREA)	1	LS
I9	DEDUCT: HYDROMULCH (ITEM A6)	(13500)	SY
PART J - ALTERNATE #2 - ADA WALKWAY AND FLOATING DOCK (NORTH)			
J1	MOBILIZATION (5% MAX, PART J)	1	LS
J2	PERMATRAK PRECAST ADA CONCRETE BOARDWALK	1	LS
J3	DRILL SHAFT (24") FOR BOARDWALK	578	LF
J4	CONCRETE PIER CAPS FOR BOARDWALK	15	CY
J5	HANDRAILS FOR CONCRETE BOARDWALK	670	LF
J6	ROCK RIPRAP (LABOR ONLY)	104	CY
J7	ACCUDOCK ADA ALUMINUM GANGWAY W/ ALL HARDWARE	1	LS
J8	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE	1	LS
J9	12" DIA. TREATED TIMBER DRIVEN PILES	5	EA
PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH)			
K1	MOBILIZATION (5% MAX, PART K)	1	LS
K2	6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE)	120	SY
K3	ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE	1	LS
K4	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE	1	LS
K5	12" DIA. TREATED TIMBER DRIVEN PILES	5	EA
K6	ROCK RIPRAP (LABOR ONLY)	109	CY
K7	ADDITIONAL CLEARING AT SHORELINE	1	LS
PART L - ALTERNATE #4 - TRANSFER PLATFORM			
L1	MOBILIZATION (5% MAX, PART L)	1	LS
L2	TIMBER LOADING RAMP	1	LS
L3	6" CONCRETE WALKWAY	5	SY
PART M - ALTERNATE #5 - DECORATIVE STONE VENEER			
M1	MOBILIZATION (5% MAX, PART M)	1	LS
M2	4" STONE VENEER ON RETAINING WALLS	3000	SF
PART N - ALTERNATE #6 - WOOD FRAMED ALTERNATIVE DESIGN			
N1	DEDUCT: WOOD FRAMED ALTERNATIVE DESIGN	(1)	LS

TESTING SCHEDULE

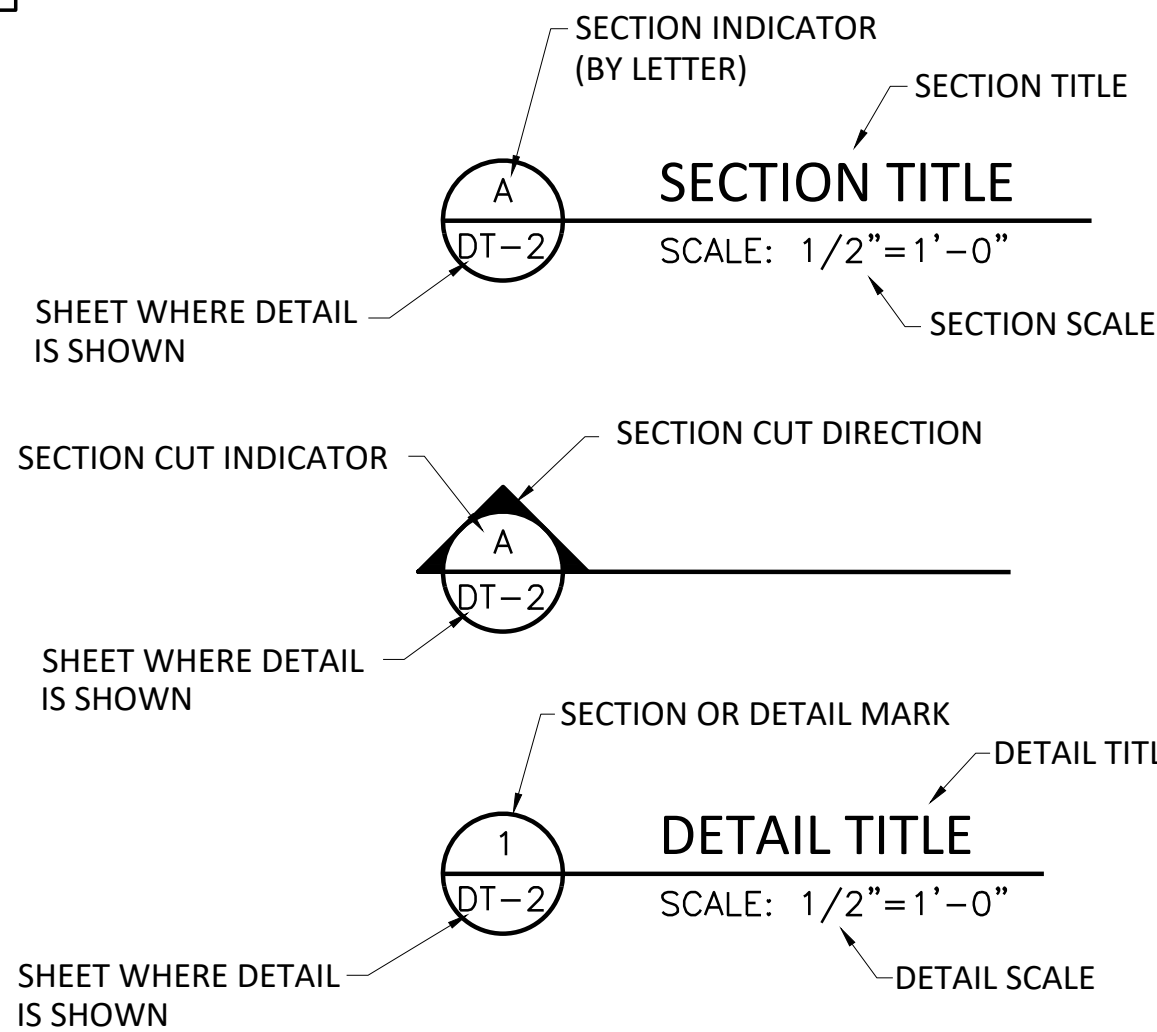
DESCRIPTION	MINIMUM RATE	EST. QUANTITY
SOILS:		
STANDARD PROCTOR - TRENCH BACKFILL	PER MATERIAL SOURCE	1
STANDARD PROCTOR - SUBGRADE	PER PARKING AREA	1
DENSITIES - TRENCH BACKFILL	PER 200 LF TRENCH/LIFT	4
DENSITIES - SUBGRADE (PARKING AREA)	PER 200 LF LANE/LIFT	120
DENSITIES - SUBGRADE (DRIVEWAYS)	PER 2 DRIVEWAYS	2
DENSITIES - SUBGRADE (SIDEWALK)	PER 5000 SF	4
FLEXIBLE BASE:		
SIEVE ANALYSIS	PER 3000 CY	2
ATTERBURG LIMITS	PER 3000 CY	2
MODIFIED PROCTOR	PER 3000 CY	2
L.S. ABRASION	PER 3000 CY	2
CBR (STANDARD)	PER MATERIAL SOURCE	1
WET BALL MILL TEST	PER MATERIAL SOURCE	1
TRIAXIAL TEST	PER MATERIAL SOURCE	1
DENSITIES OF COMPACTED BASE	PER 200 LF LANE/LIFT	120
HOT-MIX ASPHALT CONCRETE (HMAC):		
EXTRACTION, SIEVE ANALYSIS	PER 500 TONS OR DAY	6
LAB DENSITY & STABILITY	PER 500 TONS OR DAY	6
THEORETICAL DENSITY (RICE METHOD)	PER 500 TONS OR DAY	6
TEMPERATURE - DURING LAY-DOWN	CONTINUOUS AS NEEDED	1
THICKNESS - IN PLACE (CORE)	PER 1000 LF	4
% AIR VOIDS - IN PLACE (CORE)	PER 1000 LF	4
% THE ORETICAL DENSITY - IN PLACE (CORE)	PER 1000 LF	4
CONCRETE:		
(UNCONFINED COMPRESSION, 7, 14, & 28 DAY)		
SIDEWALKS	PER 4000 SF	2
CONCRETE RETAINING WALLS		4
CONCRETE BOAT RAMP:		
COMPRESSION STRENGTH (7 & 28 DAY)	PER DAY	6
FLEXURAL (BEAM) STRENGTH (7 & 28 DAY)	PER DAY	6
AIR CONTENT	PER DAY	6
SLUMP	PER DAY	6

TESTING SCHEDULE NOTES:

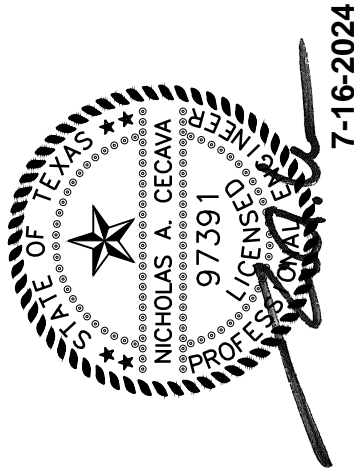
- THE ABOVE TESTING RATES ARE ONLY ANTICIPATED GUIDELINES, THE ENGINEER RESERVES THE RIGHT TO CONDUCT ADDITIONAL TESTING AT THE ENGINEER'S DISCRETION. RE-TEST FOR FAILURES ARE NOT INCLUDED.
- MOISTURE CONTENTS TO BE INCLUDED WITH DENSITY TEST.
- IN THE EVENT OF FAILURES, ADDITIONAL TESTS WILL BE REQUIRED.
- ALL TESTING WILL BE PROVIDED BY THE OWNER. SRA WILL CONTRACT FOR THE MATERIALS TESTING AND WILL PROVIDE THE CONTRACTOR WITH THE CONTACT INFORMATION.

LEGEND/ABBREVIATIONS

PROPOSED SYMBOLS		EXISTING SYMBOLS	
	CONCRETE CURB	PP	POWER POLE
	CONCRETE SIDEWALK OR PAVEMENT	LP	LIGHT POLE
	ASPHALT PAVEMENT	SP	SIGN POST
	SLOPE DIRECTION	TP	TELEPHONE PEDESTALS
	WATER LINE		ELECTRICAL LINE
	UNDERGROUND ELECTRICAL		EXISTING CONTOUR
	PROPOSED CONTOUR		PROPERTY LINE
	RIP-RAP		EXISTING ROADWAY
	NORTH ARROW		SILT FENCE
	TRAFFIC FLOW ARROW		LIMITS OF CONSTRUCTION
	STABILIZED CONSTRUCTION ENTRANCE	NOTE: WHERE THE WORD "PROPOSED" OR "PROP." IS UTILIZED IN THIS SET OF DOCUMENTS, IT SHALL MEAN "NEW CONSTRUCTION TO BE PERFORMED AS PART OF THIS CONTRACT."	
	TURF ESTABLISHMENT		
	AREAS OF CLEARING		
	BORE LOCATION		
	CONTROL POINT		



Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



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Corpus Christi, Texas 78401-3700
Phone: (361) 561-6500
Web: www.freese.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

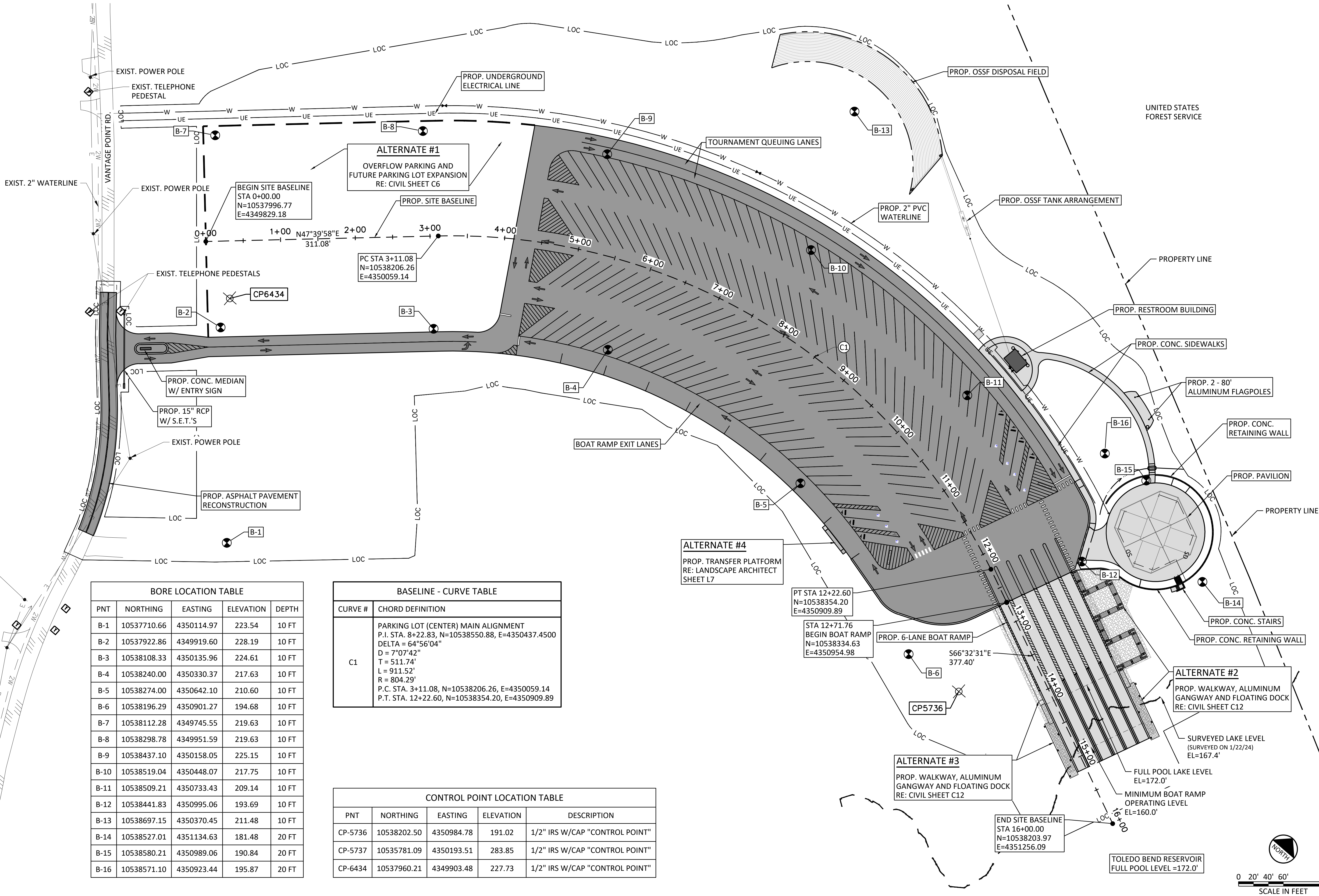
GENERAL

LEGEND AND QUANTITIES

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SEQ.



BORE LOCATION TABLE				
PNT	NORTHING	EASTING	ELEVATION	DEPTH
B-1	10537710.66	4350114.97	223.54	10 FT
B-2	10537922.86	4349919.60	228.19	10 FT
B-3	10538108.33	4350135.96	224.61	10 FT
B-4	10538240.00	4350330.37	217.63	10 FT
B-5	10538274.00	4350642.10	210.60	10 FT
B-6	10538196.29	4350901.27	194.68	10 FT
B-7	10538112.28	4349745.55	219.63	10 FT
B-8	10538298.78	4349951.59	219.63	10 FT
B-9	10538437.10	4350158.05	225.15	10 FT
B-10	10538519.04	4350448.07	217.75	10 FT
B-11	10538509.21	4350733.43	209.14	10 FT
B-12	10538441.83	4350995.06	193.69	10 FT
B-13	10538697.15	4350370.45	211.48	10 FT
B-14	10538527.01	4351134.63	181.48	20 FT
B-15	10538580.21	4350989.06	190.84	20 FT
B-16	10538571.10	4350923.44	195.87	20 FT

BASELINE - CURVE TABLE	
CURVE #	CHORD DEFINITION
C1	PARKING LOT (CENTER) MAIN ALIGNMENT P.I. STA. 8+22.83, N=10538550.88, E=4350437.4500 DELTA = 64°56'04" D = 7°07'42" T = 511.74' L = 911.52' R = 804.29' P.C. STA. 3+11.08, N=10538206.26, E=4350059.14 P.T. STA. 12+22.60, N=10538354.20, E=4350909.89

CONTROL POINT LOCATION TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-5736	10538202.50	4350984.78	191.02	1/2" IRS W/CAP "CONTROL POINT"
CP-5737	10535781.09	4350193.51	283.85	1/2" IRS W/CAP "CONTROL POINT"
CP-6434	10537960.21	4349903.48	227.73	1/2" IRS W/CAP "CONTROL POINT"

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144

SEAL

STATE OF TEXAS
NICHOLAS A. CECAVA
97.39
PROFESSIONAL ENGINEER
7-16-2024

FREEZE
NICHOLS

800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone: (361) 561-6500
Web: www.freeze.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL

OVERALL SITE PLAN

C1

NO. 1
DATE 7/17/24
DESIGNED NAC
DRAWN DKS
CHECKED
APPROVED NAC
FILE NAME
CV-SRA-PL-OVERALL.dwg

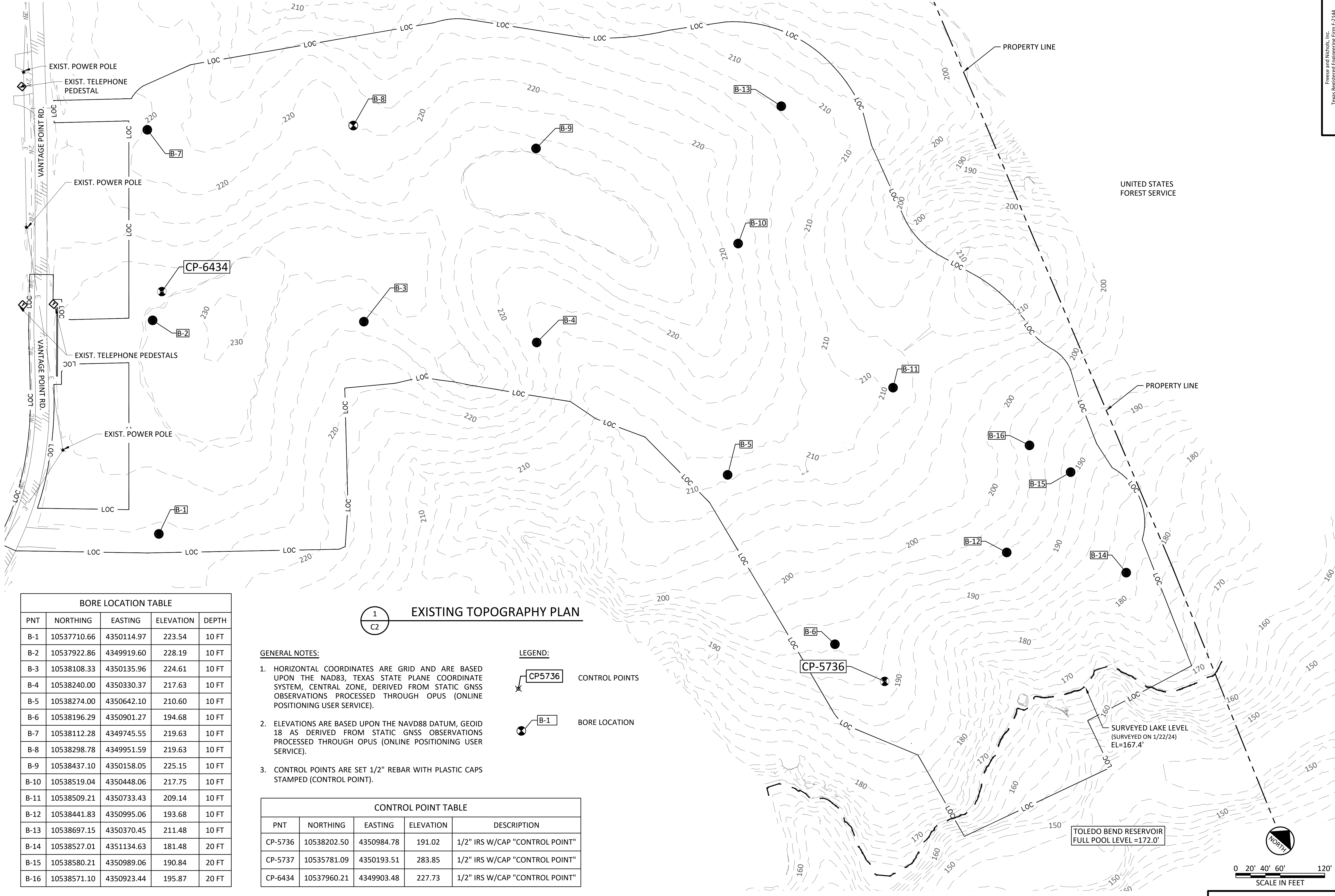
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SEQ.

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BORE LOCATION TABLE				
PNT	NORTHING	EASTING	ELEVATION	DEPTH
B-1	10537710.66	4350114.97	223.54	10 FT
B-2	10537922.86	4349919.60	228.19	10 FT
B-3	10538108.33	4350135.96	224.61	10 FT
B-4	10538240.00	4350330.37	217.63	10 FT
B-5	10538274.00	4350642.10	210.60	10 FT
B-6	10538196.29	4350901.27	194.68	10 FT
B-7	10538112.28	4349745.55	219.63	10 FT
B-8	10538298.78	4349951.59	219.63	10 FT
B-9	10538437.10	4350158.05	225.15	10 FT
B-10	10538519.04	4350448.06	217.75	10 FT
B-11	10538509.21	4350733.43	209.14	10 FT
B-12	10538441.83	4350995.06	193.68	10 FT
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B-15	10538580.21	4350989.06	190.84	20 FT
B-16	10538571.10	4350923.44	195.87	20 FT

CONTROL POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-5736	10538202.50	4350984.78	191.02	1/2" IRS W/CAP "CONTROL POINT"
CP-5737	10535781.09	4350193.51	283.85	1/2" IRS W/CAP "CONTROL POINT"
CP-6434	10537960.21	4349903.48	227.73	1/2" IRS W/CAP "CONTROL POINT"

GENERAL NOTES:

- HORIZONTAL COORDINATES ARE GRID AND ARE BASED UPON THE NAD83, TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, DERIVED FROM STATIC GNSS OBSERVATIONS PROCESSED THROUGH OPUS (ONLINE POSITIONING USER SERVICE).
- ELEVATIONS ARE BASED UPON THE NAVD88 DATUM, GEOID 18 AS DERIVED FROM STATIC GNSS OBSERVATIONS PROCESSED THROUGH OPUS (ONLINE POSITIONING USER SERVICE).
- CONTROL POINTS ARE SET 1/2" REBAR WITH PLASTIC CAPS STAMPED (CONTROL POINT).

LEGEND:

- CP5736 CONTROL POINTS
- B-1 BORE LOCATION

ISSUED FOR BID

0 20' 40' 60' 120'
SCALE IN FEET

NORTH

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144

7-16-2024

FREESE and NICHOLS
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Phone: (361) 561-6500
Web: www.freeze.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL

EXISTING TOPOGRAPHY PLAN

NO.	ISSUE	BY	DATE	DESIGNED	NAC	DRAWN	DKS	CHECKED	APPROVED	NAC	FILE NAME
SHEET											CV-SRA-PL-TOPOGRAPHY.dwg

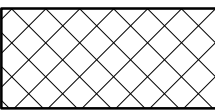
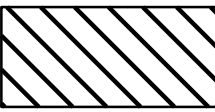
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SEQ.

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LEGEND

- LOC — — EXISTING LIMITS OF CONSTRUCTION
- 500 — — EXISTING CONTOUR
-  AREAS OF TOTAL CLEARING, GRUBBING AND SHORELINE EXCAVATION
-  AREAS OF PARTIAL CLEARING AND GRUBBING (SEE NOTE 2)

NOTES:

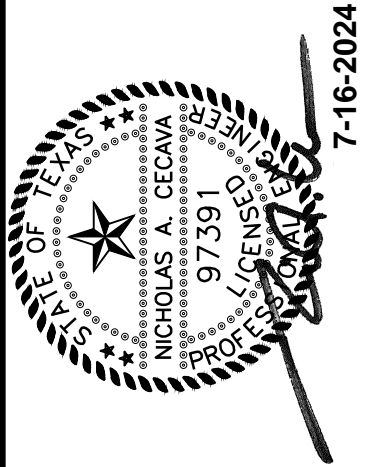
- CONTRACTOR SHALL PROVIDE CLEARING AND GRUBBING IN ACCORDANCE WITH SPECIFICATION 31 11 00 AND COORDINATE WITH SRA.
- CONTRACTOR TO TAG ALL TREES OVER 12" AND COORDINATE REMOVAL WITH SRA.

1
C3

DEMOLITION PLAN

0 20' 40' 60' 120'
SCALE IN FEET

ISSUED FOR BID



FREESE & NICHOLS
800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone: (361) 561-6500
Web: www.freee.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL

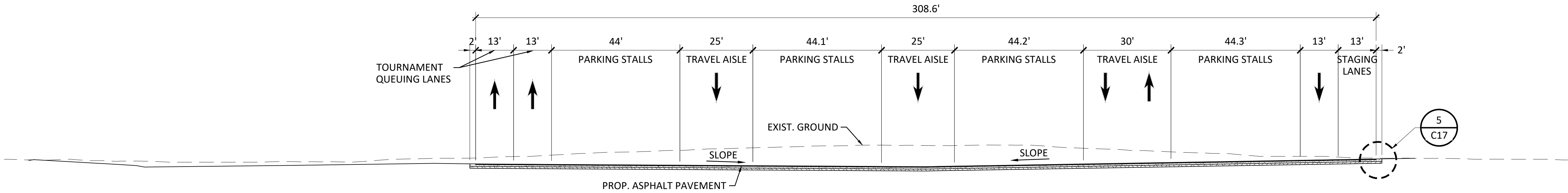
DEMOLITION PLAN

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985
SHEET				DATE	07/17/24
				DESIGNED	NAC
				DRAWN	DKS
				CHECKED	
				APPROVED	NAC
VERIFY SCALE	Bar Scale is one inch on original drawing.			FILE NAME	CV-SRA-PL-DEMO.dwg
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C3

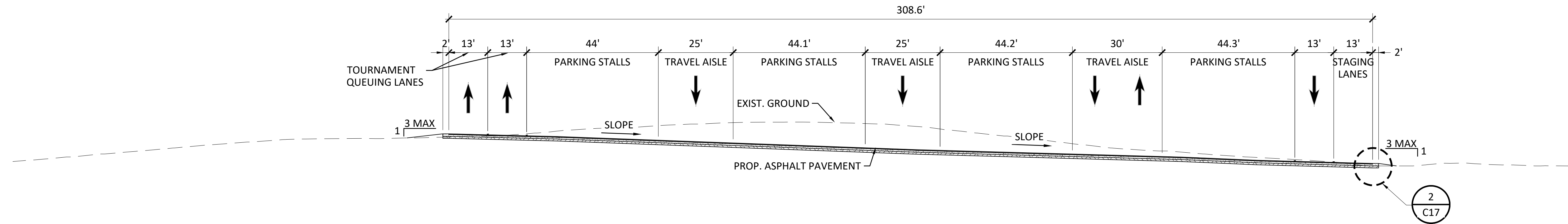
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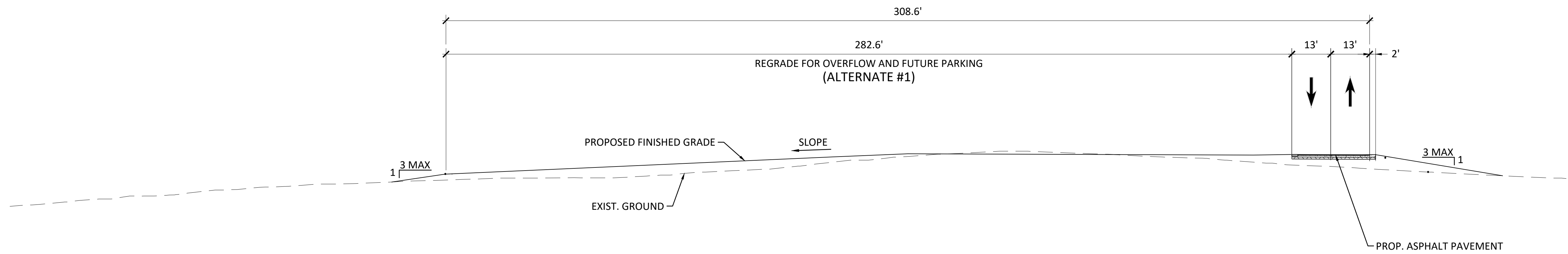
C
C6

TYPICAL PARKING LOT SECTION



B
C6

TYPICAL PARKING LOT SECTION



A
C6

TYPICAL PARKING LOT SECTION



ISSUED FOR BID

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144

7-16-2024

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL

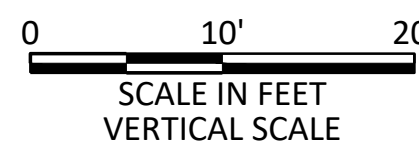
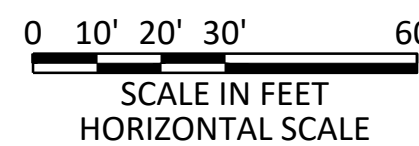
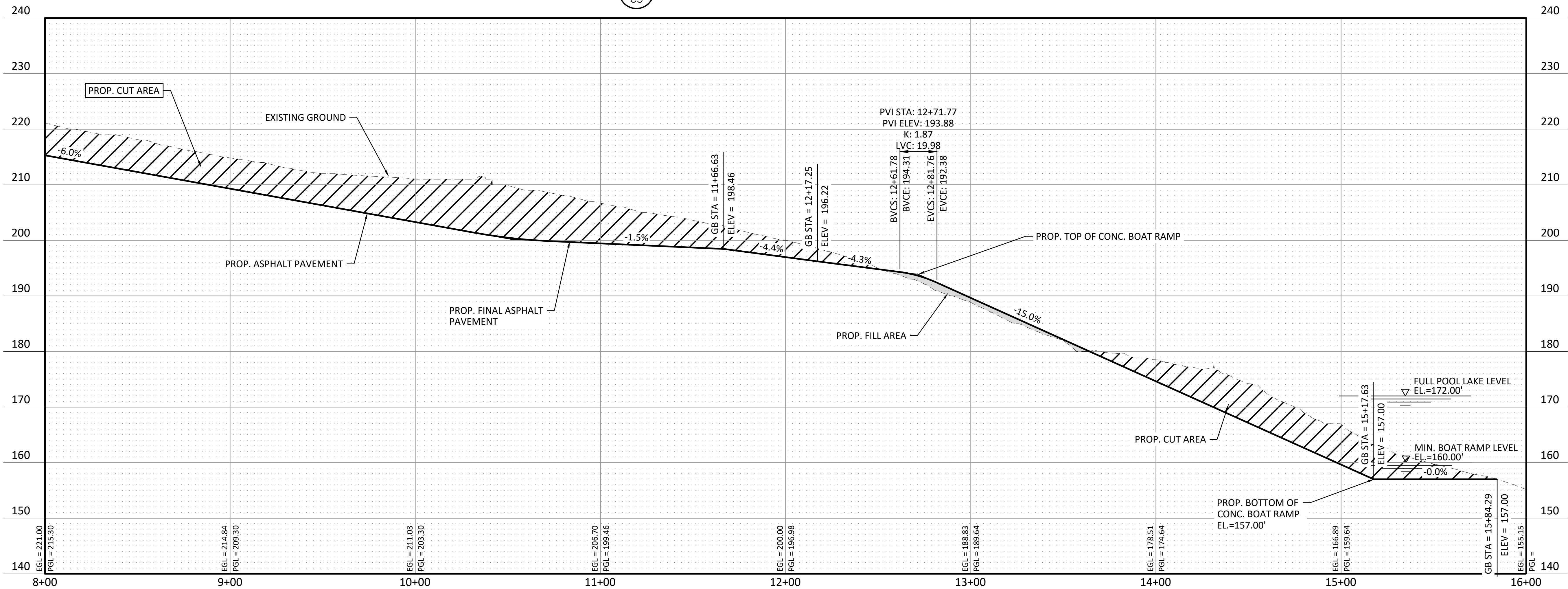
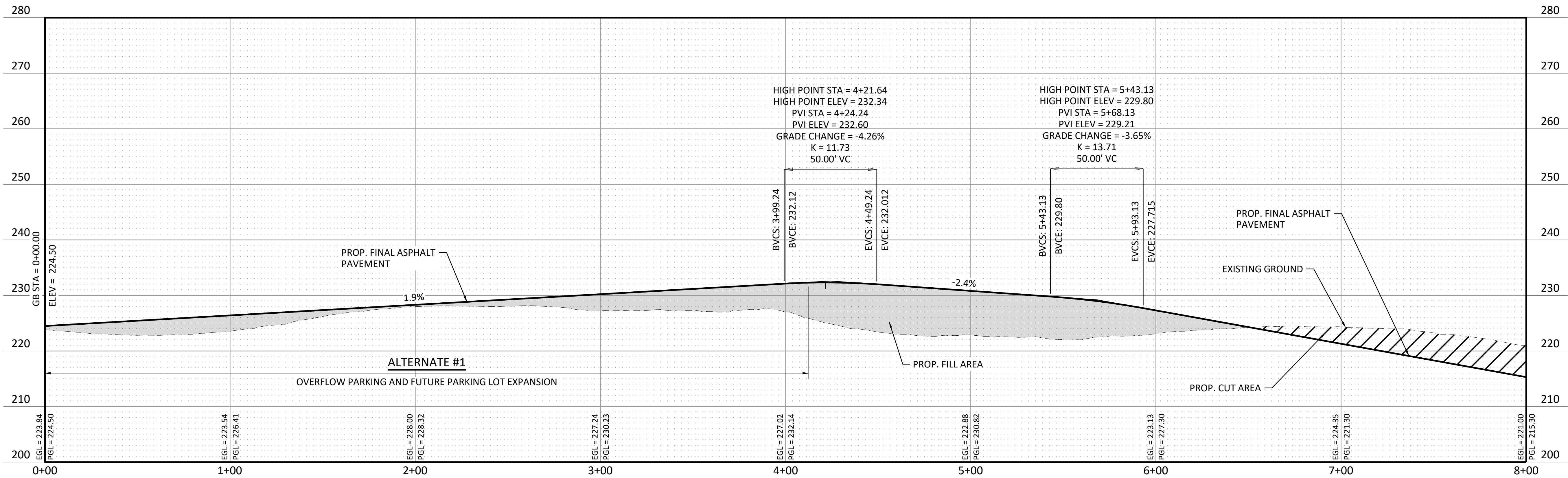
TYPICAL PARKING LOT SECTION

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985
				DATE	07/17/24
				DESIGNED	NAC
				DRAWN	DKS
				CHECKED	
				APPROVED	NAC
FILE NAME					CV-SRA-SEC-PARKING(01).dwg
VERIFY SCALE					Bar Scale is one inch on original drawing. 1 if not one hinch on this sheet, adjust scale.

C4

SEQ.

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7-16-2024

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Corpus Christi, Texas 78401-3700
Phone: (361) 561-6500
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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL
PROPOSED SITE PROFILE

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985
SHEET				DATE	07/17/24
				DESIGNED	NAC
				DRAWN	DKS
				CHECKED	
				APPROVED	NAC
0	VERIFY SCALE			FILE NAME	CV-SRA-PRF-SITE(01).dwg
1	Bar Scale is one inch on original drawing. If not one inch on this sheet, adjust scale.				

C5

SEQ.

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LEGEND

500	EXISTING CONTOUR
500	PROPOSED CONTOUR
LOC	EXISTING LIMITS OF CONSTRUCTION
	SIDEWALK CONSTRUCTION JOINT (CJ)
	SIDEWALK EXPANSION JOINT (EJ)
	PAVILION FOUNDATION CONSTRUCTION JOINT
1	POINT LABEL
-11.30%	PROP. SLOPE DIRECTION
	NEW CONCRETE PAVEMENT AND SIDEWALK
	RIP-RAP

ABBREVIATIONS:

BC	BACK OF CURB	PI	POINT OF INTERSECTION
DW	DRIVEWAY	PT	POINT OF TANGENT
EP	EDGE OF PAVEMENT	TC	TOP OF CONCRETE
EXB	EXPOSED PERIMETER BEAM	TS	TOP OF SIDEWALK
GB	GRADE BREAK	VPI	VERTICAL POINT OF INTERSECTION
SE	SWALE ELEVATION		
PC	POINT OF CURVATURE		

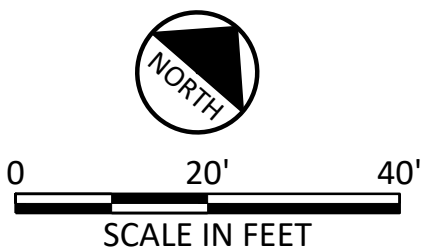
PROPOSED OPEN YARD AREA STAKING AND GRADING PLAN

POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	10538564.51	4350705.48	202.53	EP/SW
2	10538607.04	4350727.55	201.77	TS
3	10538612.43	4350754.81	201.75	TS
4	10538616.39	4350769.48	202.14	TS
5	10538635.07	4350800.45	200.61	TS
6	10538646.51	4350834.76	199.08	TS
7	10538648.90	4350889.49	196.75	TS
8	10538660.77	4350900.77	197.08	TS
9	10538616.13	4350782.98	202.12	TS
10	10538637.95	4350833.31	199.50	TS
11	10538647.35	4350943.37	196.63	TS
12	10538631.15	4350945.81	196.30	TS
13	10538640.96	4350888.50	196.59	TS
14	10538624.08	4350942.07	196.14	TS
15	10538585.35	4350999.78	193.47	TS
16	10538579.60	4350994.09	193.47	TS
17	10538593.87	4350979.93	193.76	TS
18	10538601.54	4350987.82	193.76	TS

POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
19	10538504.78	4350972.20	193.44	SE
20	10538484.19	4350980.25	194.87	DW/GB
21	10538507.55	4350984.41	193.47	TS
22	10538446.45	4350997.45	194.30	DW/GB
23	10538458.79	4351012.47	193.66	TC
24	10538470.12	4351043.73	193.47	TC
25	10538475.70	4351070.42	191.47	TC
26	10538475.70	4351070.42	191.47	EXB
27	10538505.63	4351102.27	193.47	TW
28	10538513.50	4351105.74	193.47	TW
29	10538601.96	4351039.27	193.47	TC
30	10538602.01	4351039.27	191.47	EXB
31	10538521.40	4350969.17	192.97	TW
32	10538587.50	4350987.74	193.47	TW
33	10538593.19	4350993.56	194.47	TW
34	10538607.42	4351014.01	194.47	TW
35	10538613.19	4351038.51	190.97	TW
36	10538509.52	4351114.97	190.47	TW

POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
37	10538505.33	4351121.11	187.47	TW
38	10538499.78	4351118.68	187.47	TW
39	10538495.21	4351116.29	185.03	TW
40	10538495.22	4351116.27	184.03	TW
41	10538489.74	4351112.86	184.59	TC
42	10538493.02	4351107.84	184.59	TC
43	10538466.92	4351075.17	190.97	TW
44	10538460.12	4351044.01	192.97	TW
45	10538451.06	4351018.81	193.40	TW
46	10538433.33	4351000.30	193.80	TW/PI
47	10538514.18	4350948.19	197.05	PC/TS
48	10538520.85	4350930.34	198.04	TS
49	10538524.24	4350920.84	198.87	TS
50	10538544.13	4350857.18	200.00	TS
51	10538559.59	4350792.30	201.12	TS
52	10538578.24	4350792.24	201.43	TS
53	10538598.60	4350781.62	201.82	TS
54	10538491.15	4350976.43	195.03	TS

POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
55	10538513.51	4351105.80	191.47	EXB
56	10538505.56	4351102.29	191.47	EXB
57	10538612.13	4351005.83	190.00	SE
58	10538594.07	4350992.66	193.30	TS
59	10538588.47	4350986.93	193.30	TS
60	10538578.68	4350737.66	202.00	SW
61	10538594.45	4350766.42	202.00	SW
62	10538584.31	4351038.52	193.79	COL
63	10538487.92	4351048.95	193.79	COL
64	10538520.08	4350964.85	192.72	SE
65	10538593.79	4350979.93	192.58	SE
66	10538601.57	4350987.85	192.58	SE
67	10538624.49	4351017.02	187.00	SE

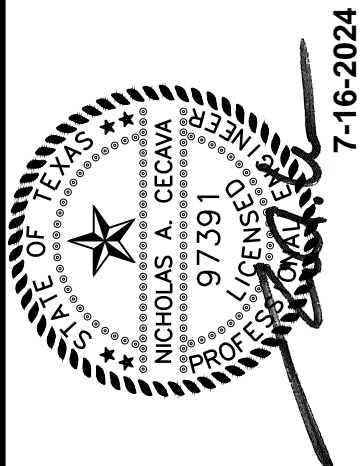


ISSUED FOR BID

NOTES:

- REFER TO SHT. C6 FOR PARKING LOT GRADING AND STAKING PLAN.
- REFER TO ARCHITECTURAL STRUCTURAL PLANS FOR PAVILION FOUNDATION LAYOUT, DETAILS AND JOINT LAYOUT.

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL
PROPOSED OPEN YARD AREA
STAKING AND GRADING PLAN

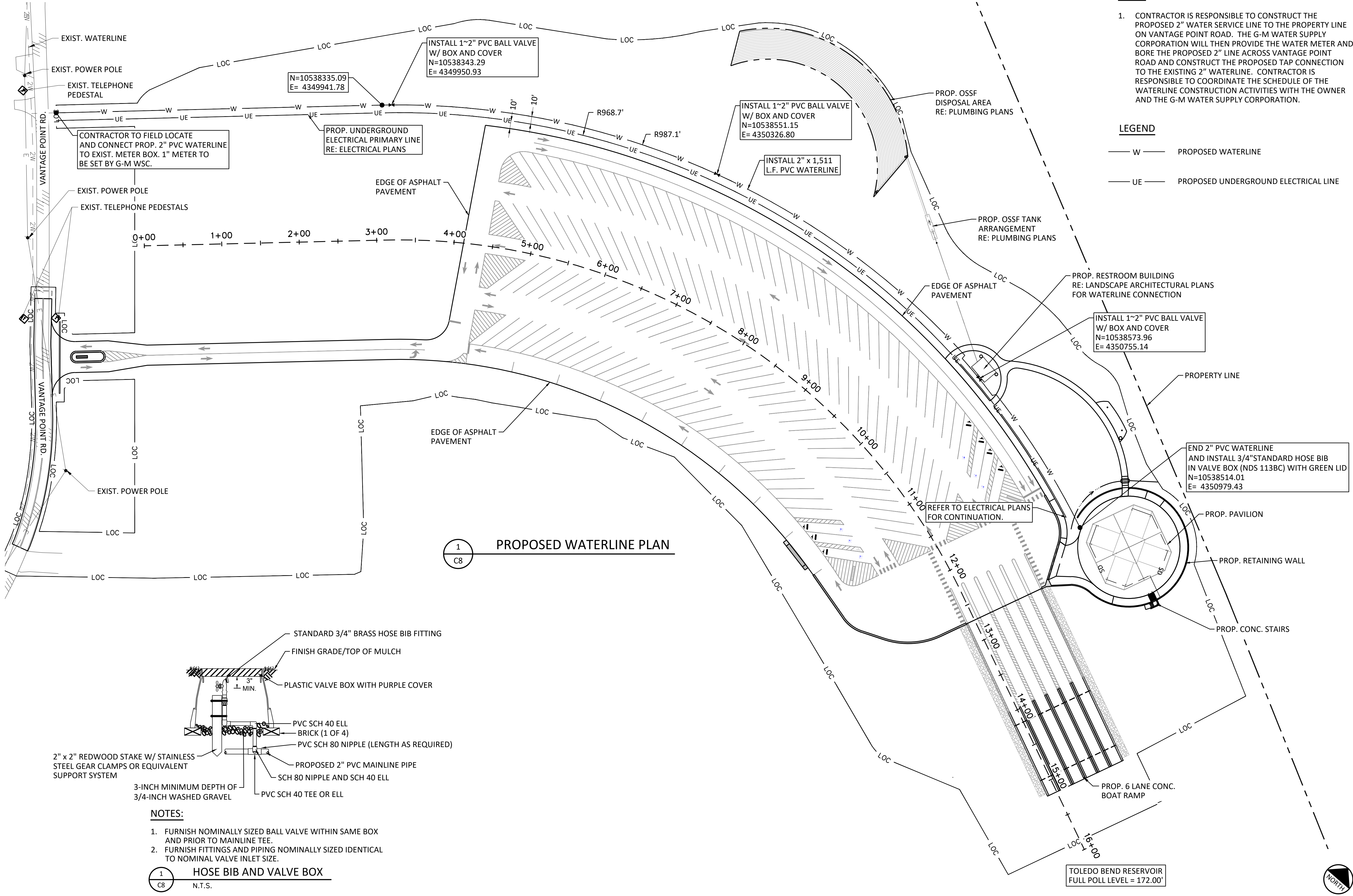
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C7

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NOTE:

- CONTRACTOR IS RESPONSIBLE TO CONSTRUCT THE PROPOSED 2" WATER SERVICE LINE TO THE PROPERTY LINE ON VANTAGE POINT ROAD. THE G-M WATER SUPPLY CORPORATION WILL THEN PROVIDE THE WATER METER AND BORE THE PROPOSED 2" LINE ACROSS VANTAGE POINT ROAD AND CONSTRUCT THE PROPOSED TAP CONNECTION TO THE EXISTING 2" WATERLINE. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SCHEDULE OF THE WATERLINE CONSTRUCTION ACTIVITIES WITH THE OWNER AND THE G-M WATER SUPPLY CORPORATION.

LEGEND

- W — PROPOSED WATERLINE
- UE — PROPOSED UNDERGROUND ELECTRICAL LINE

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7-16-2024

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Web: www.freeze.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL

PROPOSED WATERLINE PLAN

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985
			07/17/24	DATE	DESIGNED
				DRAWN	NAC
				CHECKED	DKS
				APPROVED	NAC
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C8

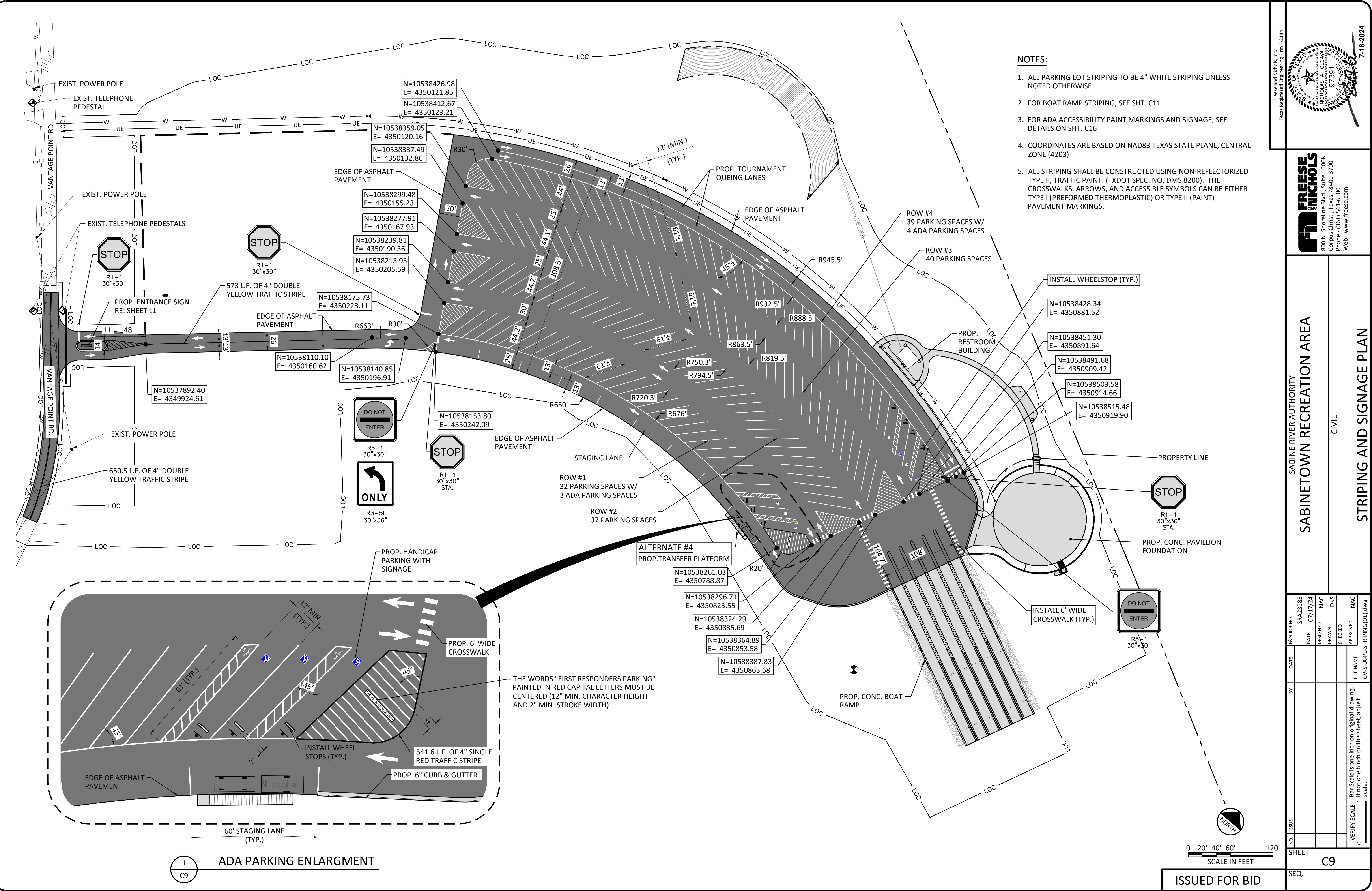
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ISSUED FOR BID

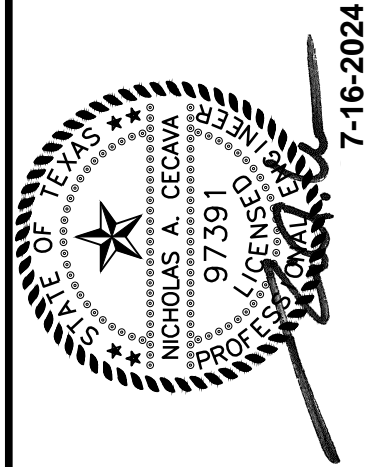
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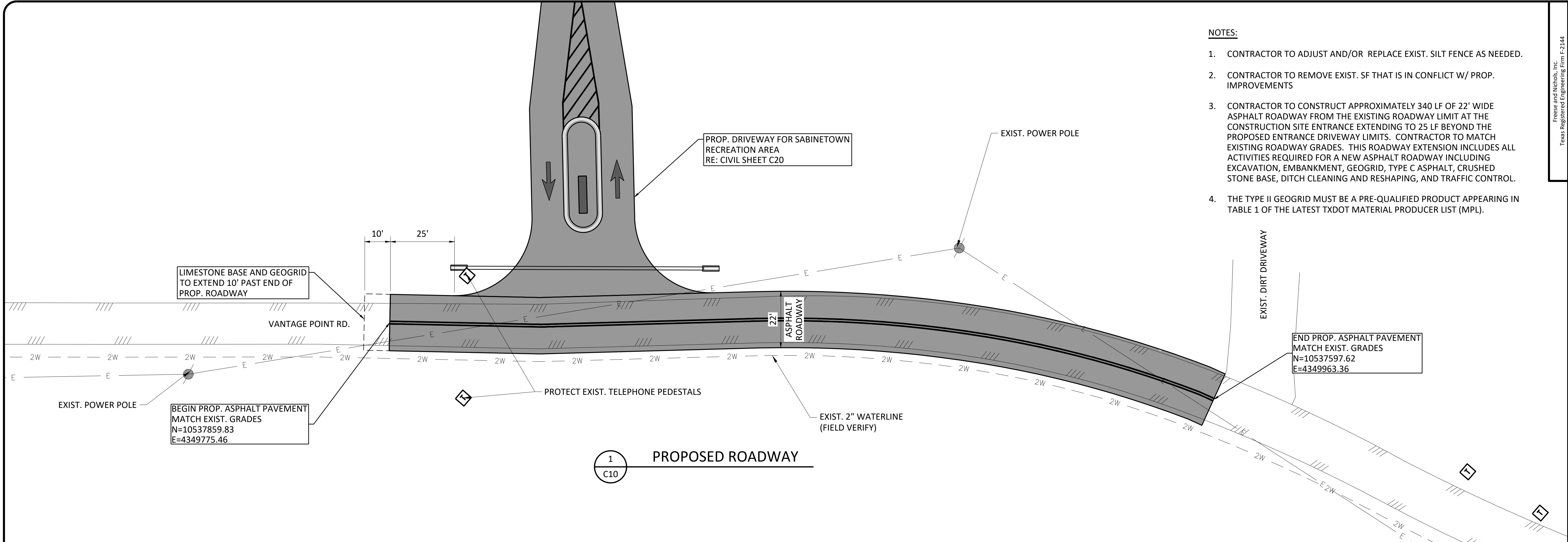
SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL
STRIPING AND SIGNAGE PLAN

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985
1	DESIGNED		07/17/24	DATE	
2	DRAWN			DESIGNED	NAC
3	CHECKED			DRAWN	DMS
4	APPROVED			CHECKED	NAC
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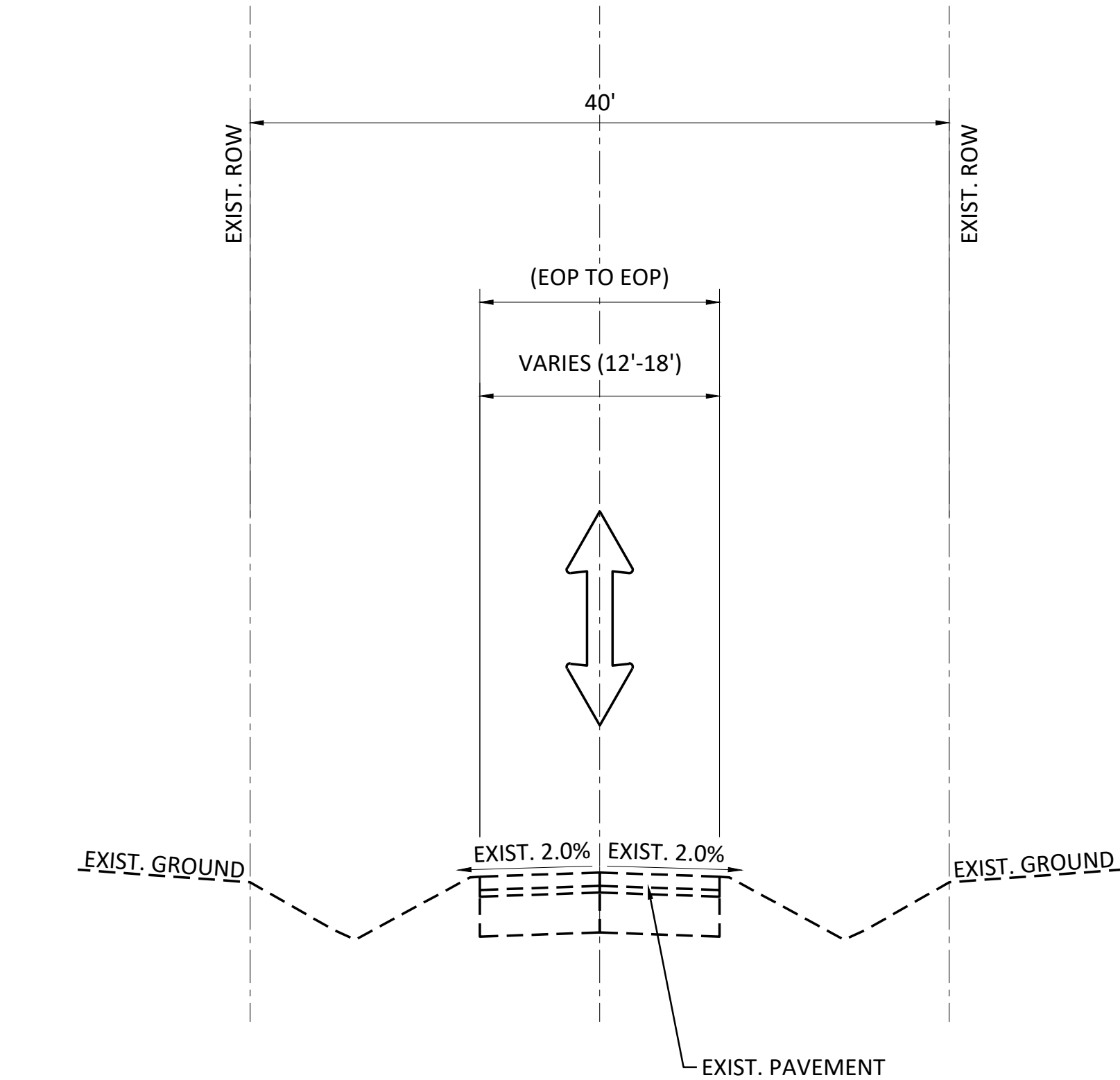
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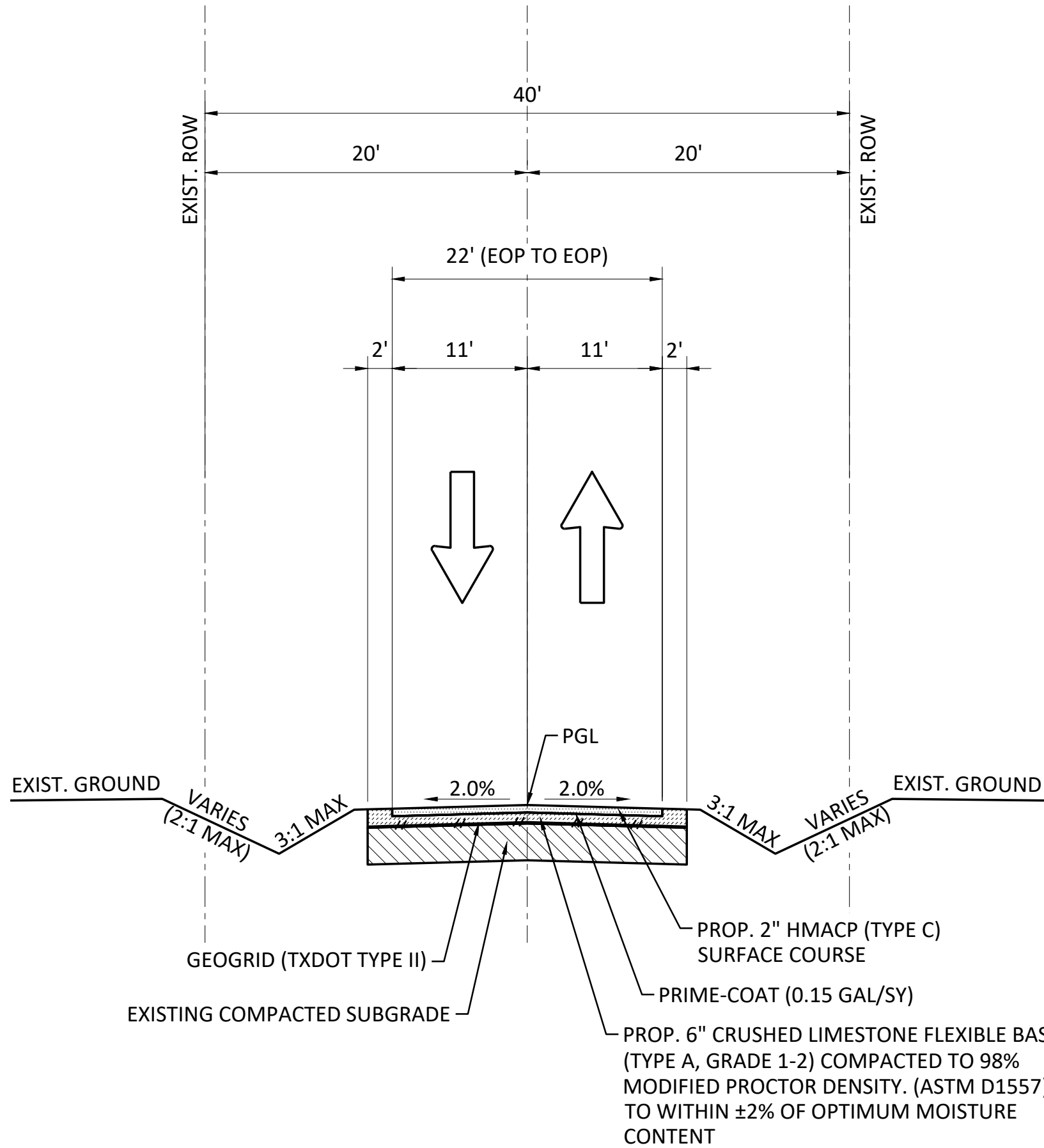


NOTES:

1. CONTRACTOR TO ADJUST AND/OR REPLACE EXIST. SILT FENCE AS NEEDED.
2. CONTRACTOR TO REMOVE EXIST. SF THAT IS IN CONFLICT W/ PROP. IMPROVEMENTS
3. CONTRACTOR TO CONSTRUCT APPROXIMATELY 340 LF OF 22' WIDE ASPHALT ROADWAY FROM THE EXISTING ROADWAY LIMIT AT THE CONSTRUCTION SITE ENTRANCE EXTENDING TO 25 LF BEYOND THE PROPOSED ENTRANCE DRIVEWAY LIMITS. CONTRACTOR TO MATCH EXISTING ROADWAY GRADES. THIS ROADWAY EXTENSION INCLUDES ALL ACTIVITIES REQUIRED FOR A NEW ASPHALT ROADWAY INCLUDING EXCAVATION, EMBANKMENT, GEOGRID, TYPE C ASPHALT, CRUSHED STONE BASE, DITCH CLEANING AND RESHAPING, AND TRAFFIC CONTROL.
4. THE TYPE II GEOGRID MUST BE A PRE-QUALIFIED PRODUCT APPEARING IN TABLE 1 OF THE LATEST TXDOT MATERIAL PRODUCER LIST (MPL).



EXISTING TYPICAL CROSS SECTION



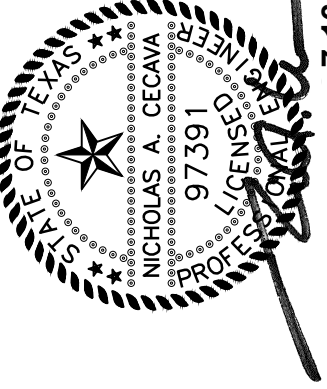
PROPOSED TYPICAL CROSS SECTION



0 20' 40'
SCALE IN FEET

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

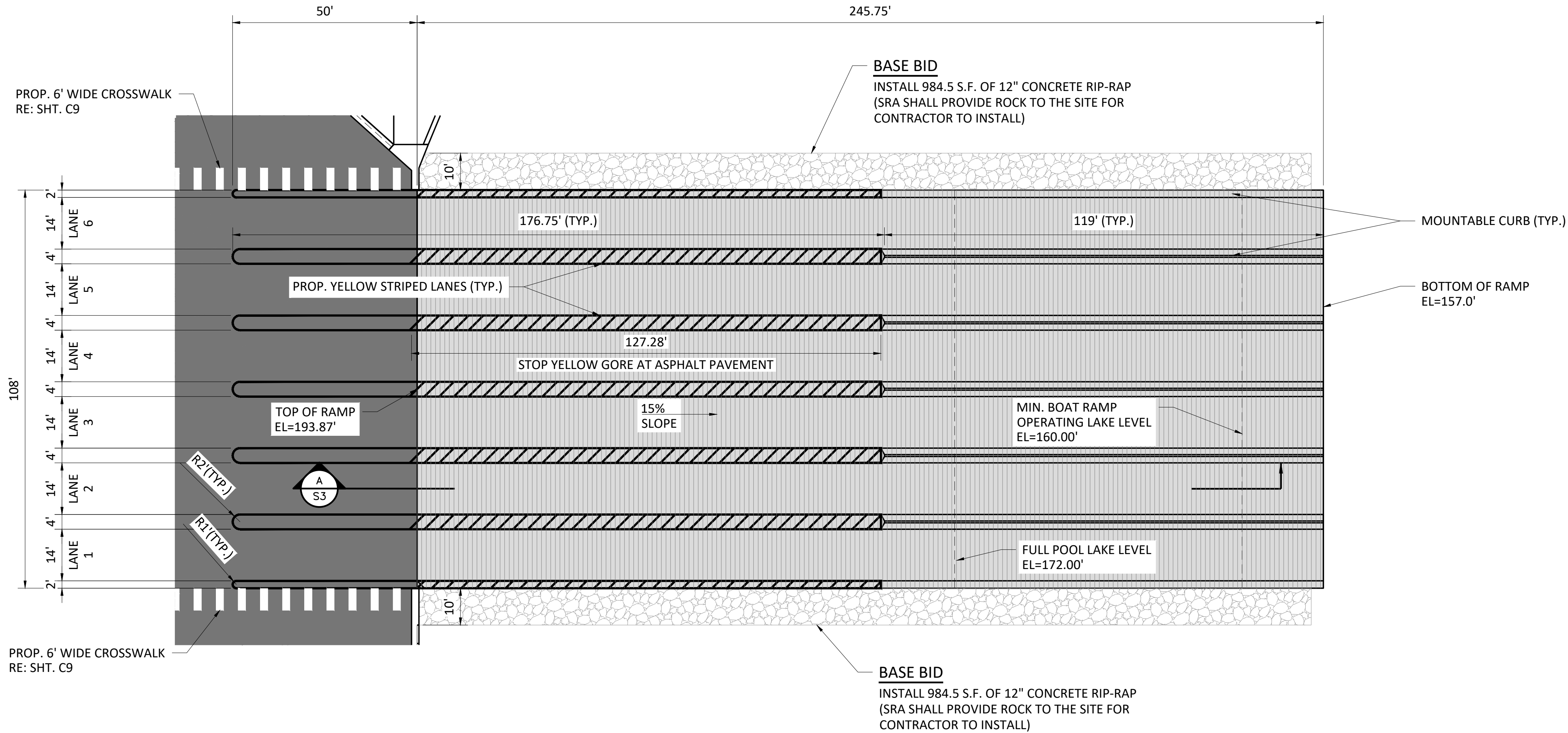
CIVIL
VANTAGE POINT ROAD
RECONSTRUCTION PLAN

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				APPROVED	NAC
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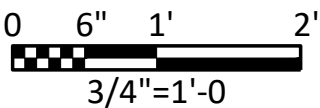


1
C11

BASE BID
BOAT RAMP STRIPING PLAN

NOTE:

- THE BOAT RAMP CONCRETE PAVEMENT SURFACE SHALL BE GIVEN A ROUGH TRANSVERSE METAL-TINE FINISH. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST PROVIDE A 5'x 5' MINIMUM TEST SECTION OF THE PAVEMENT FINISH FOR SRA REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OF THE BOAT RAMP PAVEMENT.
- ALL STRIPING AT BOAT RAMP TO BE 4" YELLOW STRIPING AND CONSTRUCTED USING NON-REFLECTORIZED TYPE II, TRAFFIC PAINT.



ISSUED FOR BID

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985
				DATE	07/17/24
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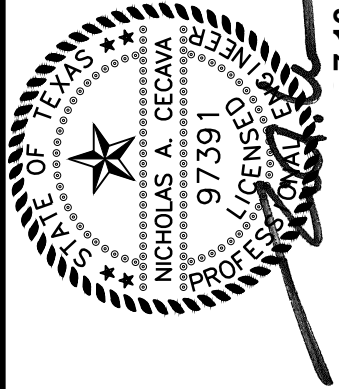
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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

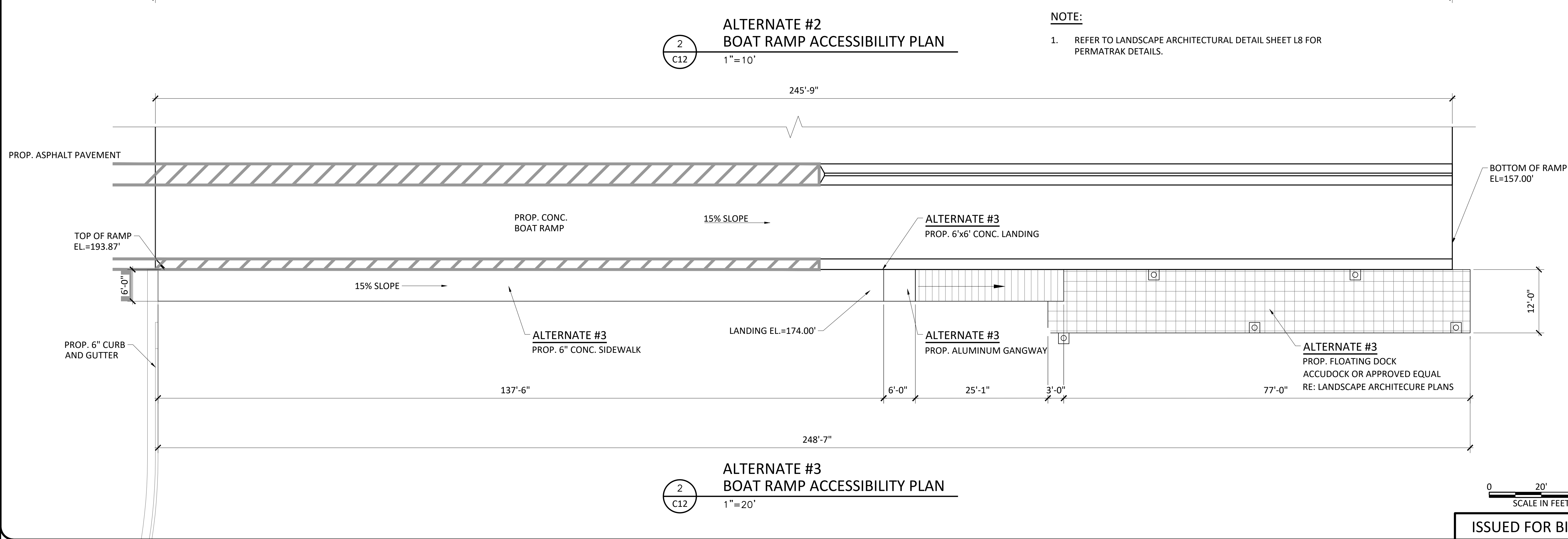
CIVIL
BASE BID
BOAT RAMP STRIPING PLAN

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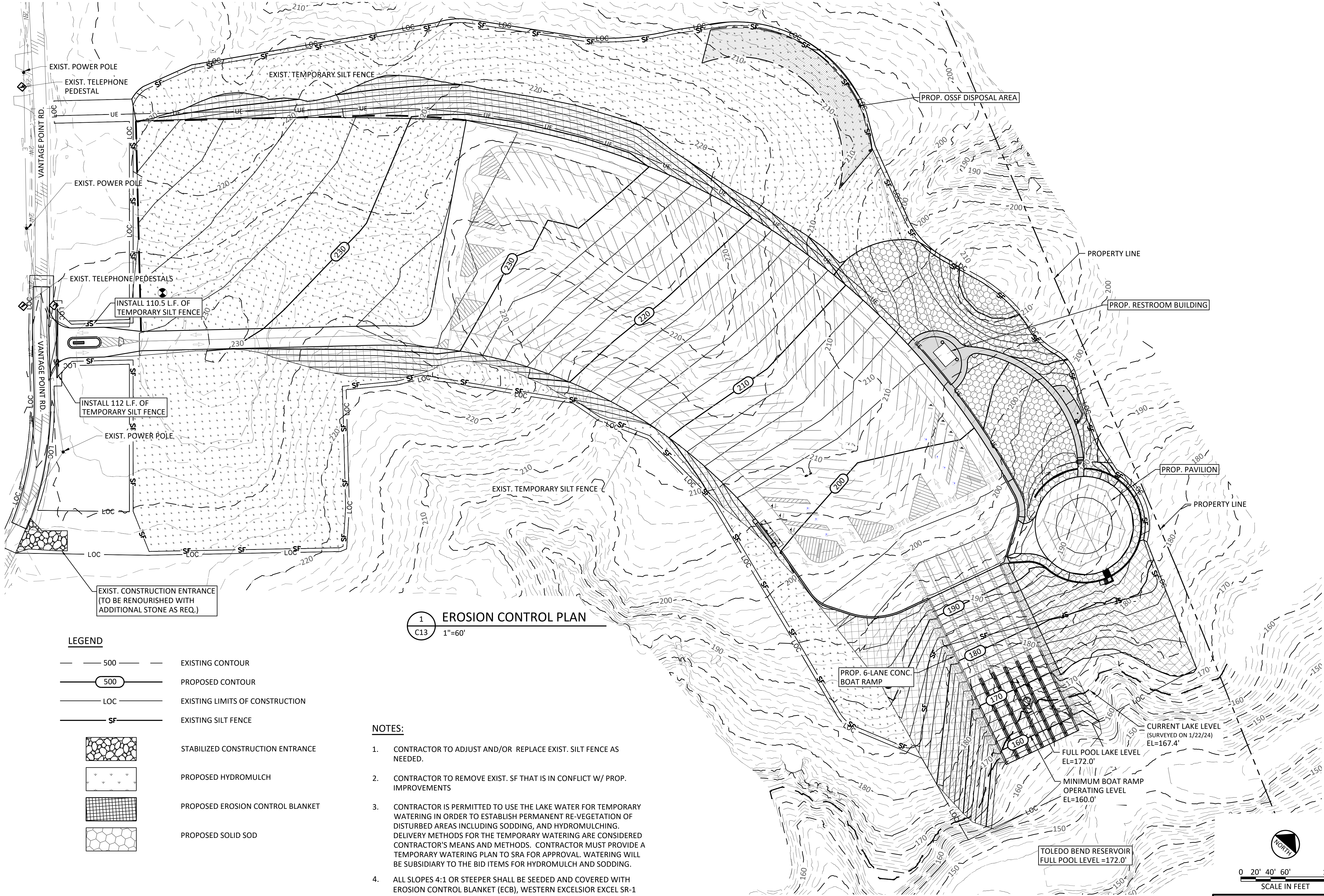


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LEGEND

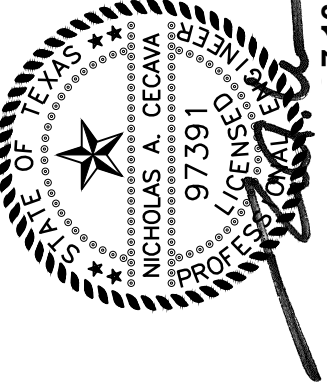
- 500 ——— EXISTING CONTOUR
- 500 ——— PROPOSED CONTOUR
- LOC ——— EXISTING LIMITS OF CONSTRUCTION
- SF ——— EXISTING SILT FENCE
- [Stabilized Construction Entrance Symbol] STABILIZED CONSTRUCTION ENTRANCE
- [Hydromulch Symbol] PROPOSED HYDROMULCH
- [Erosion Control Blanket Symbol] PROPOSED EROSION CONTROL BLANKET
- [Solid Sod Symbol] PROPOSED SOLID SOD

1 EROSION CONTROL PLAN
C13 1"=60'

NOTES:

- CONTRACTOR TO ADJUST AND/OR REPLACE EXIST. SILT FENCE AS NEEDED.
- CONTRACTOR TO REMOVE EXIST. SF THAT IS IN CONFLICT W/ PROP. IMPROVEMENTS
- CONTRACTOR IS PERMITTED TO USE THE LAKE WATER FOR TEMPORARY WATERING IN ORDER TO ESTABLISH PERMANENT RE-VEGETATION OF DISTURBED AREAS INCLUDING SODDING, AND HYDROMULCHING. DELIVERY METHODS FOR THE TEMPORARY WATERING ARE CONSIDERED CONTRACTOR'S MEANS AND METHODS. CONTRACTOR MUST PROVIDE A TEMPORARY WATERING PLAN TO SRA FOR APPROVAL. WATERING WILL BE SUBSIDIARY TO THE BID ITEMS FOR HYDROMULCH AND SODDING.
- ALL SLOPES 4:1 OR STEEPER SHALL BE SEEDED AND COVERED WITH EROSION CONTROL BLANKET (ECB), WESTERN EXCELSIOR EXCEL SR-1 (NATURAL), OR APPROVED EQUAL. THE ECB SHALL BE INSTALLED AND SECURED PER MANUFACTURER'S RECOMMENDATIONS.

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL
EROSION CONTROL AND
TURF ESTABLISHMENT PLAN

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				DATE	07/17/24
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				APPROVED	NAC
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C13

SEQ.

ISSUED FOR BID

SITE DESCRIPTION

TOTAL AREA TO BE DISTURBED: 12.97 ACRES

EXISTING CONDITION OF SOIL & VEGETATIVE
COVER AND % OF EXISTING VEGETATIVE COVER: _____

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

OTHER: DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED SHALL BE
STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME OR

STRUCTURAL PRACTICES:

OTHER: _____

ATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

2. Install stabilized construction entrance

4. Prepare topsoil and apply grass block sodding to areas specified in the contract documents.

5. Upon completion of construction activities, remove all temporary structural controls and re-seed areas disturbed by their removal.

During construction of the improvements, storm water runoff will be conveyed via existing ditches, curb & gutters, and such temporary

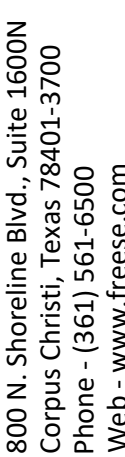
OTHER EROSION AND SEDIMENT CONTROLS:

INSPECTION: An inspection will be performed by the contractor

X HAUL ROADS DAMPENED FOR DUST CONTROL
X LOADED HAUL TRUCKS TO BE COVERED WITH TARP/BLANKET

OTHER: Install stabilized rock construction entrance at appropriate point in construction sequence prior to any site work

CONTRACTOR SHALL UTILIZE THE STORM WATER POLLUTION PREVENTION PLAN
AND SHALL OBTAIN ALL PERMITS AND FULFILL ALL PERMIT REQUIREMENTS, INCLUDING



SABINE RIVER AUTHORITY

CIVIL

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				SRA23985
			DATE	07/17/24
			DESIGNED	NAC
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Stormwater Pollution Prevention - Clean Water Act Section 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation.

☐ No Action Required ☒ Required Action

Action No.

- Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000
- Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.
- Post Construction Site Notice, (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.
- When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

Work in or near Streams, Waterbodies and Wetlands Clean Water Act Sections 401 & 404

USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

- ☐ No Permit Required
- ☐ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)
- ☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)
- ☒ Individual 404 Permit Required
- ☐ Other Nationwide Permit Required: NWP• _____

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

- CESWF-97-LOP-1 Activities at Certain Reservoirs and Federal and State Sponsored Projects
-
-
-

Best Management Practices:

Erosion

- ☐ Temporary Vegetation
- ☒ Blankets/Matting
- ☐ Mulch
- ☒ Sodding
- ☐ Interceptor Swale
- ☐ Diversion Dike
- ☐ Erosion Control Compost
- ☐ Mulch Filter Berm and Socks
- ☐ Compost Filter Berm and Socks

Sedimentation

- ☒ Silt Fence
- ☐ Rock Berm
- ☐ Triangular Filter Dike
- ☐ Sand Bag Berm
- ☐ Straw Bale Dike
- ☐ Brush Berms
- ☐ Erosion Control Compost
- ☐ Mulch Filter Berm and Socks
- ☐ Compost Filter Berm and Socks
- ☐ Stone Outlet Sediment Traps
- ☐ Sediment Basins

Post-Construction TSS

- ☐ Vegetative Filter Strips
- ☒ Retention/Irrigation Systems
- ☐ Extended Detention Basin
- ☐ Constructed Wetlands
- ☐ Wet Basin
- ☐ Erosion Control Compost
- ☐ Mulch Filter Berm and Socks
- ☐ Compost Filter Berm and Socks
- ☒ Vegetation Lined Ditches
- ☐ Sand Filter Systems

III. Cultural Resources

In the event historical issues or archeological artifacts (bones, burnt rock, flint, pottery, etc.) are found during construction, cease work in the immediate area and contact the Engineer immediately.

☒ No Action Required ☐ Required Action

Action No.

-
-
-
-
-

IV. Vegetation Resources

Preserve native vegetation to the extent practical.

☒ No Action Required ☐ Required Action

Action No.

-
-
-
-

V. Federal Listed, and Proposed Threatened and Endangered Species, Critical Habitat, State Listed Species, Candidate Species and Migratory Birds.

☒ No Action Required ☐ Required Action

Action No.

-
-
-
-

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the Engineer immediately.

VI. Hazardous Materials or Contamination Issues

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets, (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the follwing are detected:

- Dead or distressed vegetation (not identified as normal)
- Trash ples, drums, canister, barrels, etc.
- Undesirable smells or odors
- Evidence of leaching or seepage of substances

Any other evidence indicating possible hazardous materials or contamination discoverd on site.

Hazardous Materials or Contamination Issues Specific to this Project:

☒ No Action Required ☐ Required Action

Action No.

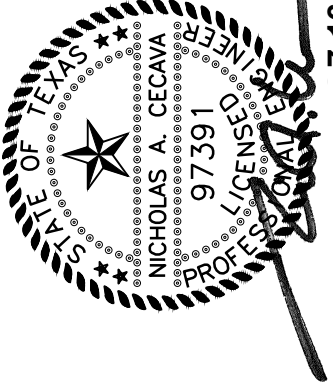
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VII. Other Environmental Issues

☒ No Action Required ☐ Required Action

Action No.

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144



7-16-2024

FREEZE & NICHOLS
800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
Web - www.freeze.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL
ENVIRONMENTAL PERMITS, ISSUES
AND COMMITMENTS (EPIC)

F&N JOB NO.

SRA23985

DATE

07/17/24

DESIGNED

NAC

DRAWN

DKS

CHECKED

APPROVED

NAC

FILE NAME

CV-SHU-DT-SW3P.dwg

BY

NO.

ISSUE

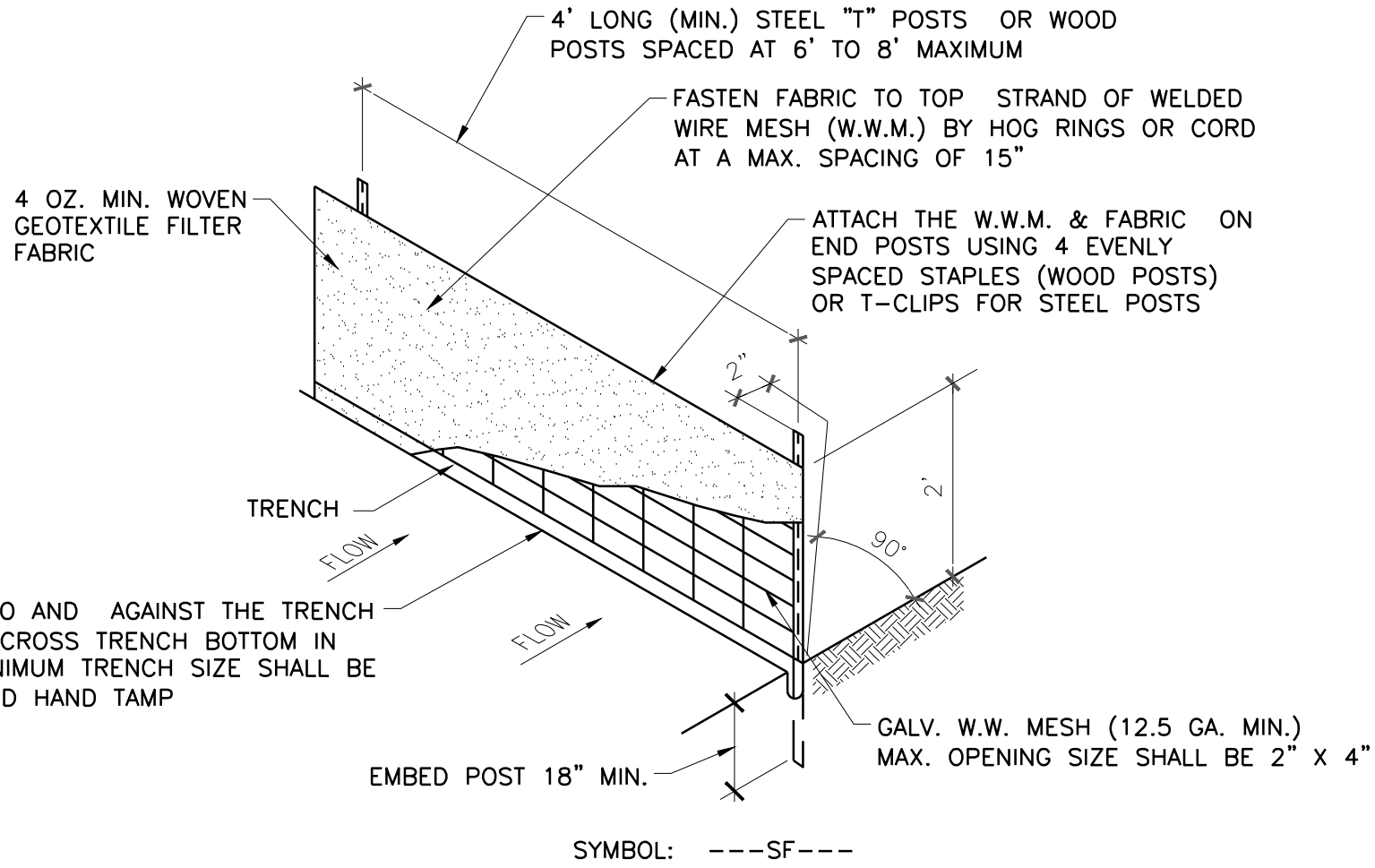
SHEET

SEQ.

Bar Scale is one inch on original drawing.
1: if not one hinch on this sheet, adjust
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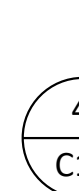
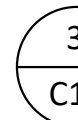
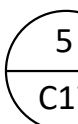
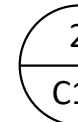

C15

ISSUED FOR BID

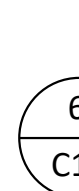




1. FOR MACHINE LAYED C & G
CONTRACTOR HAS OPTION TO
DRILL & EPOXY SET #4 REBARS @
12" O.C. (3" MIN. EMBEDMENT)



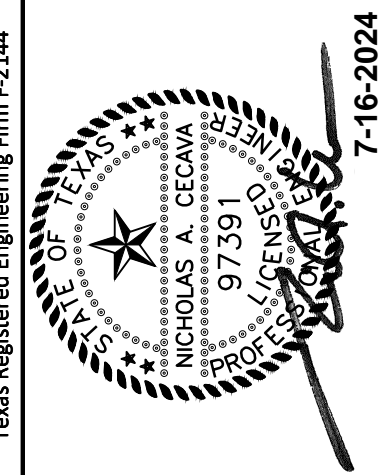
CONTRACTOR TO INSTALL PAVING CAP SEALS ON ALL
EXPANSION JOINTS IN SIDEWALK AND DRIVEWAYS.



1. PROOF ROLL SUBGRADE WITHIN 24 HOURS OF PLACING GEOGRID AND FLEXIBLE BASE. PROOF ROLLING IS SUBSIDIARY TO THE BID ITEM FOR 12" COMPACTED SUBGRADE
2. THE TYPE II GEOGRID MUST BE A PRE-QUALIFIED PRODUCT APPEARING IN TABLE 1 OF THE LATEST TXDOT MATERIAL PRODUCER LIST (MPL).

1. ALL CONCRETE CLASS "A" 3,000 P.S.I. ALL STEEL GRADE 60
fy = 60,000 P.S.I., MIN.
2. TRANSVERSE GROOVES 1/8" WIDE BY 1/2" DEEP SHALL BE MADE IN
ALL CURB & GUTTER AND HEADER CURB AT 10' O.C. (MAXIMUM).
3. 3/4" THICK EXPANSION JOINTS SHALL BE PROVIDED AT 40'-0"
CENTERS* (MAXIMUM). REINFORCEMENT SHALL CONSIST OF THE
NO. 4 DOWELS X 15' LONG SPACED AS INDICATED. THE NO. 4 DOWEL
SHALL BE EXTENDED ACROSS THE JOINT 9 INCHES AND THIS END
SHALL BE SLEEVED WITH ENDS CAPPED.
4. WHERE NEW CURB & GUTTER OR HEADER CURB JOINS EXISTING
CURB & GUTTER, TRANSITION THE LAST 10' OF THE NEW TO MATCH
THE OLD IN SHAPE.
5. BASE, SUB-BASE, AND SUBGRADE THICKNESS UNDER CONCRETE CURB
AND GUTTER TO BE AS SPECIFIED IN THE PROJECT SPECIFICATIONS
AND PROJECT DETAILS, PER LOADING DESIGN CONDITIONS. REFER TO
THE PROJECT SPECIFIC STREET SECTION(S) AND RELATED PROJECT
DETAILS SHOWN ON THE DRAWINGS. BOTH THE TREATED SUBGRADE
(8" MINIMUM) AND THE FLEXIBLE BASE (4" MINIMUM) OR
EQUIVALENT SHALL EXTEND A MINIMUM OF 1' BEYOND THE BACK OF
CURB.
6. FINAL ACCEPTANCE OF THE PROJECT SHALL BE CONTINGENT UPON
THE CONTRACTOR PROVIDING SRA WITH A CERTIFICATION LETTER,
FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION
(TDLR), POLICY AND STANDARDS DIVISION, ARCHITECTURAL BARRIERS
SECTION, THAT ALL ADA (AMERICANS WITH DISABILITIES ACT)
HANDICAP IMPROVEMENTS, AS CONSTRUCTED, COMPLY WITH THE
TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL
BARRIERS ACT ARTICLE 9102, TEXAS CIVIL STATUTES.
7. AT LEAST 1' OF THE AREA BEHIND THE CURB SHALL BE BACKFILLED
AND COMPACTED (MINIMUM 95% STANDARD PROCTOR DENSITY) IN
ACCORDANCE WITH THE SPECIFICATIONS AS SOON AS POSSIBLE AND
NO LATER THAN 48 HOURS OF REMOVAL OF FORMS (OR SOONER IN
THE EVENT OF INCLEMENT WEATHER) IN ORDER TO PROTECT THE
MOISTURE OF THE PAVEMENT STRUCTURE.

1. ALL EXPANSION JOINTS TO BE 3/4" REDWOOD EXPANSION BOARD, UNLESS OTHERWISE NOTED.
2. ALL CONCRETE CLASS "A", 3,000 psi. ALL STEEL, GRADE 60, $f_y = 60,000$ psi.
3. CONCRETE TO RECEIVE BROOM FINISH.
4. TRANSVERSE CONTRACTION JOINTS 1/8": WIDE BY 1/2" DEEP SHALL BE CUT IN ALL SIDEWALKS AT 5'-0" INTERVALS (TYPICAL) OR THE INTERVALS SHALL BE SPACED TO MATCH THE WIDTH OF THE SIDEWALK.



7-16-2024

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL

CIVIL DETAILS

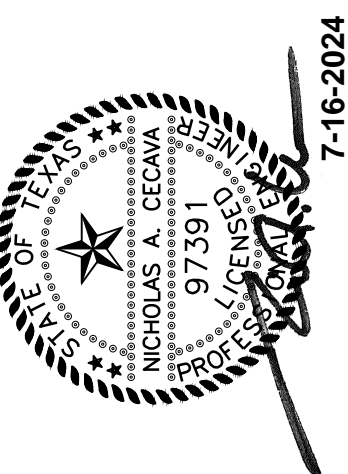
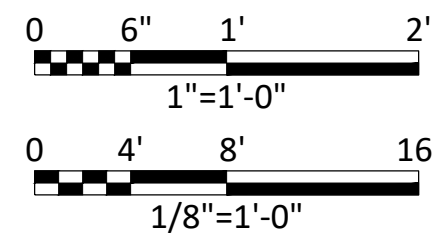
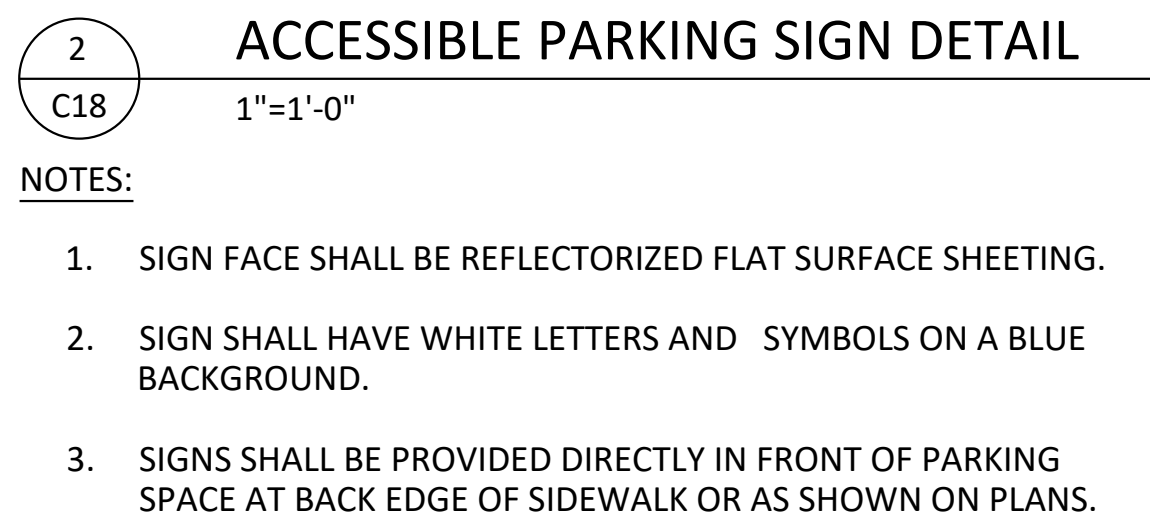
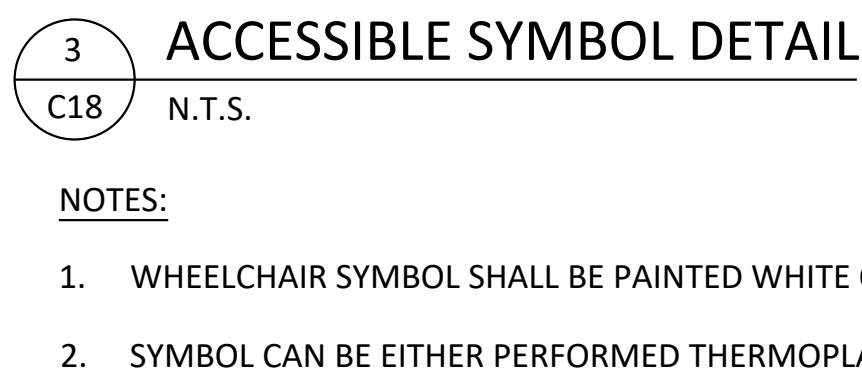
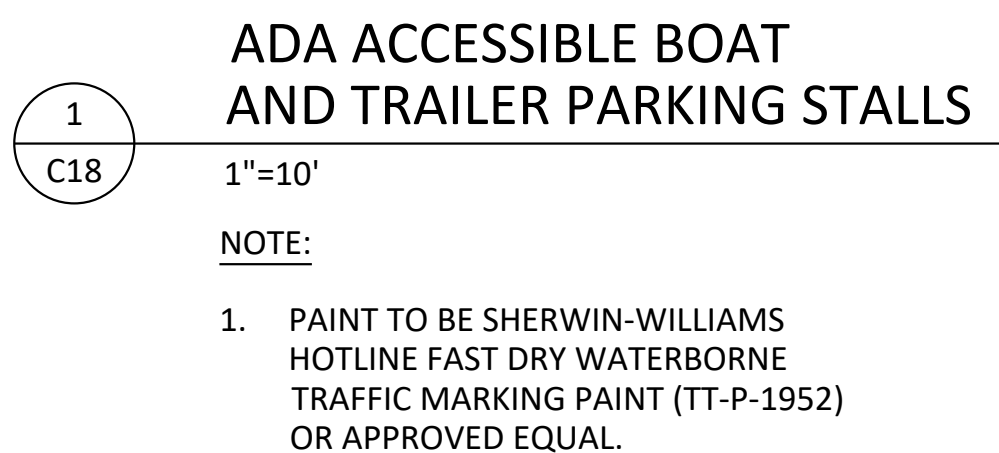
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			07/17/24	SRA23985
			DESIGNED	NAC
			DRAWN	DKS
			CHECKED	
			APPROVED	NAC
			FILE NAME	
			CALL GRA. ETC.	20240707.1.dwg

VERIFY SCALE Bar Scale is one inch on original drawing.
1 if not one hinch on this sheet, adjust

C17

SEQ.	DESCRIPTION	DATE	AMOUNT	CHECK NO.	BANK	MEMO
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ISSUED FOR BID



7-16-2024

FREESE & NICHOLS
800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
Web - www.freese.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

CIVIL

CIVIL DETAILS II

NO.	ISSUE	BY	DATE	F&N JOB NO.	SRA23985
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				NAC	
				DRAWN	
				DKS	
				CHECKED	
				APPROVED	NAC

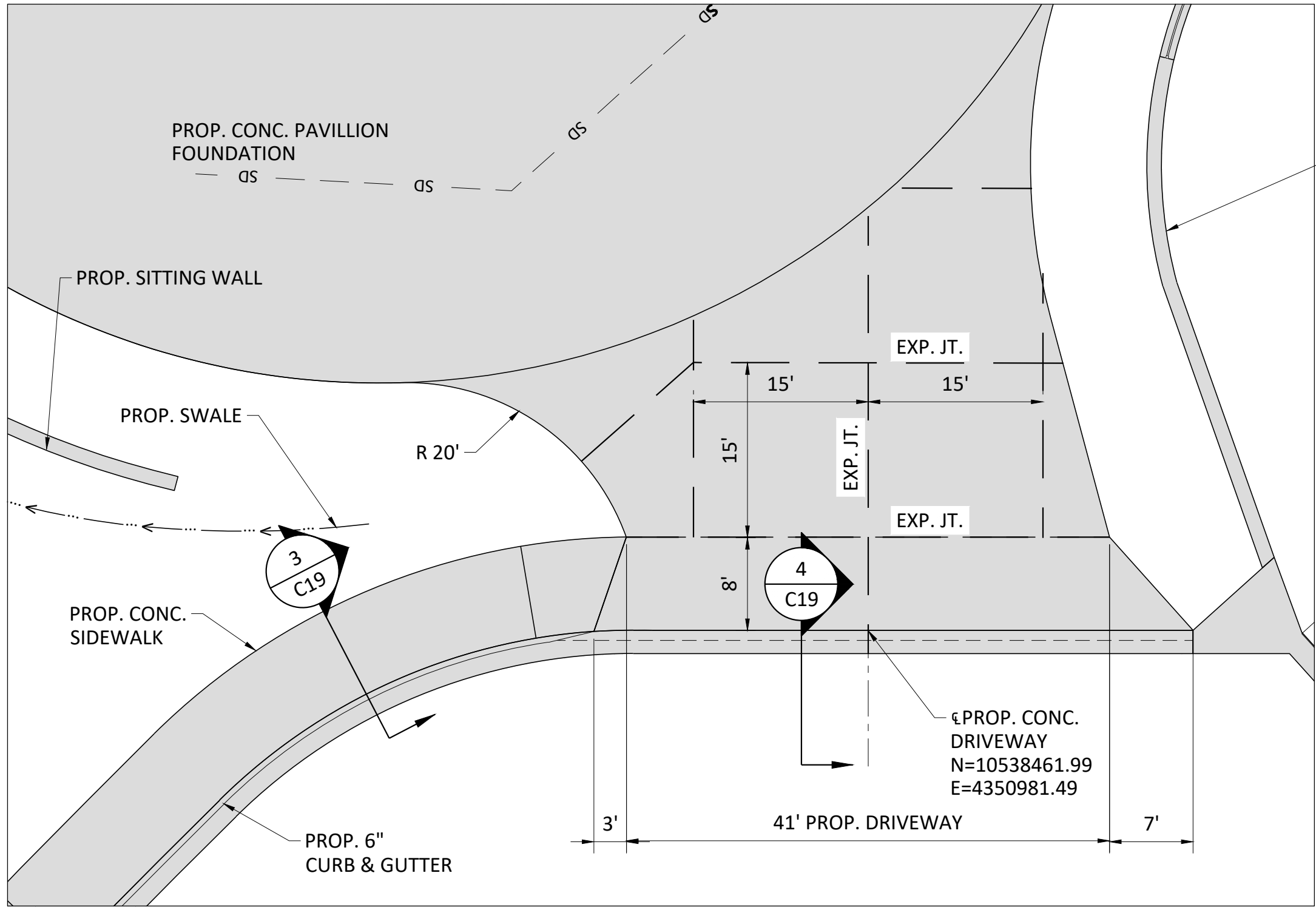
Br Scale is one inch on original drawing.
 For one inch on this sheet, adjust
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1"

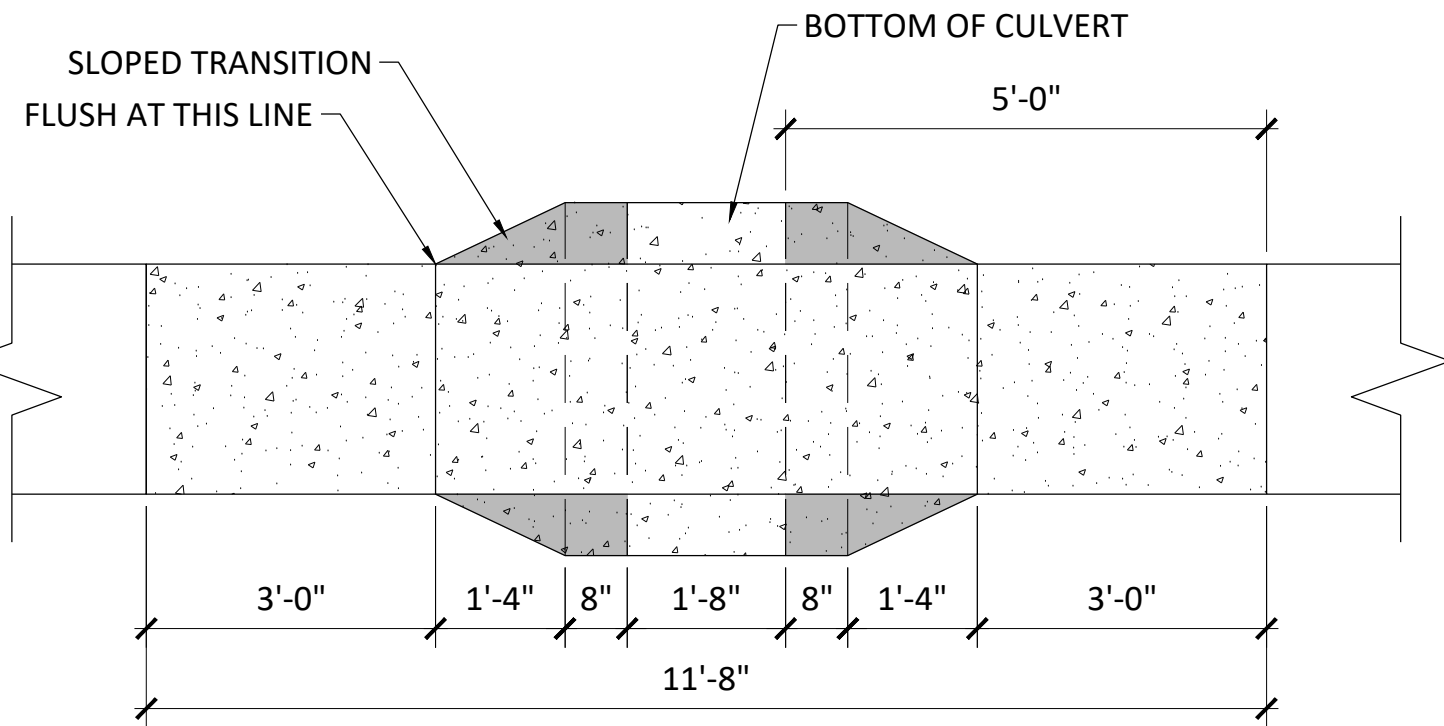
C18

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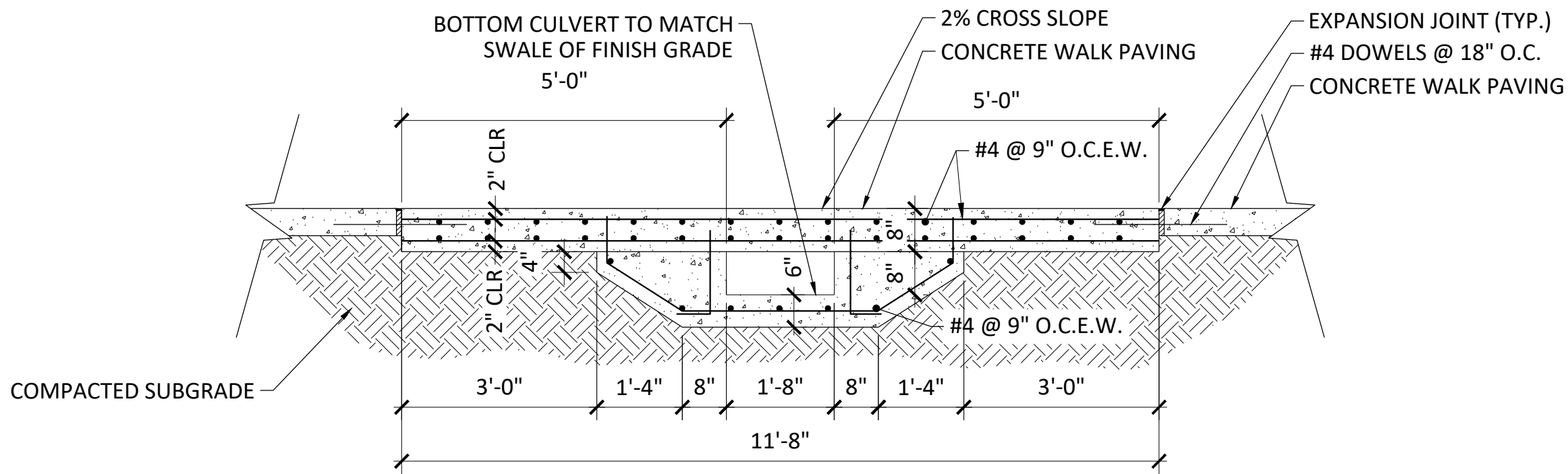
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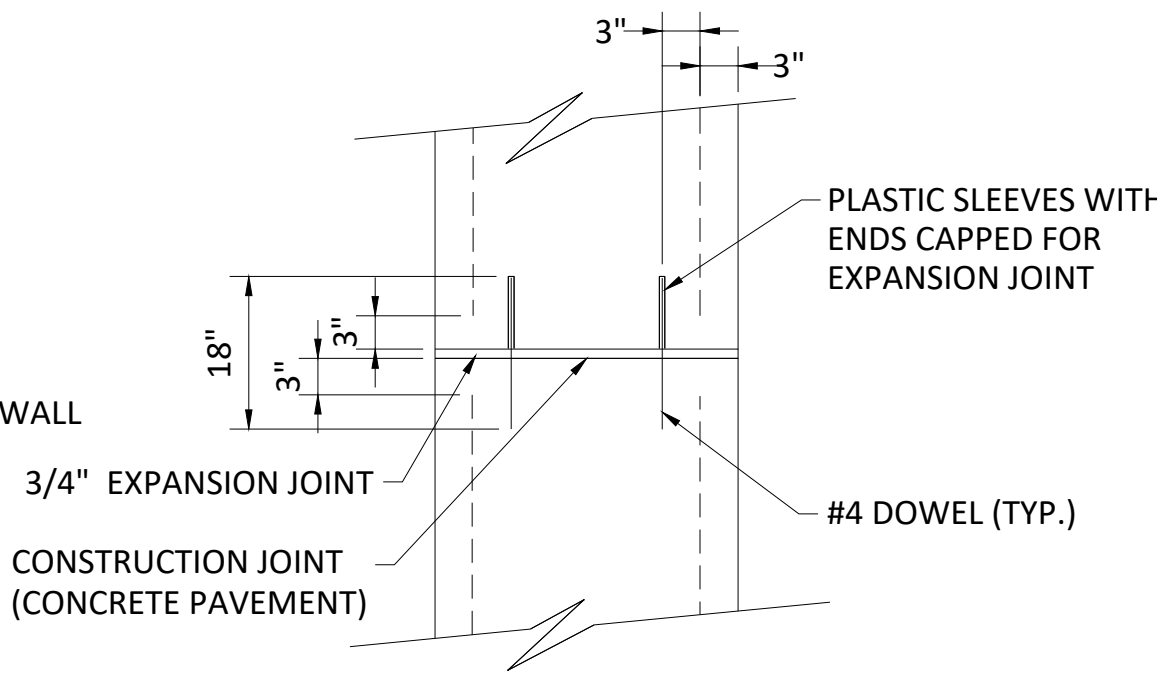
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C19
N.T.S.
DRIVEWAY WITH TIED SIDEWALK
JOINT PLAN



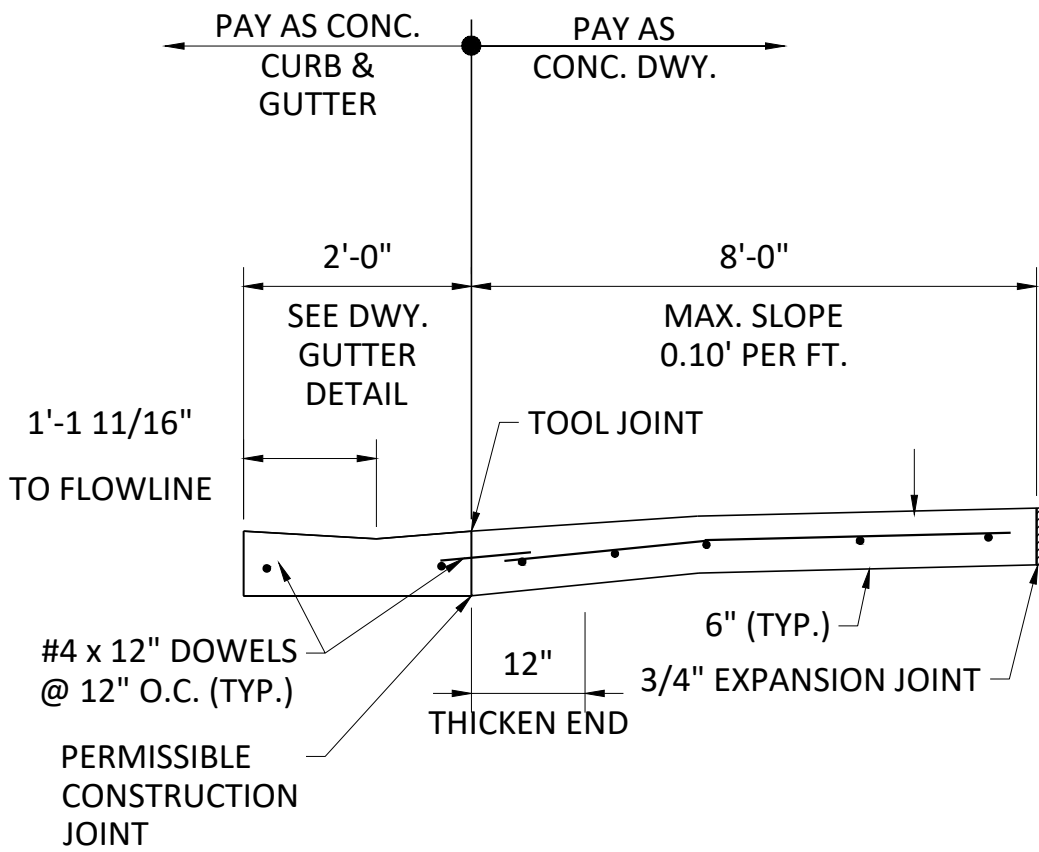
PLAN VIEW
N.T.S.



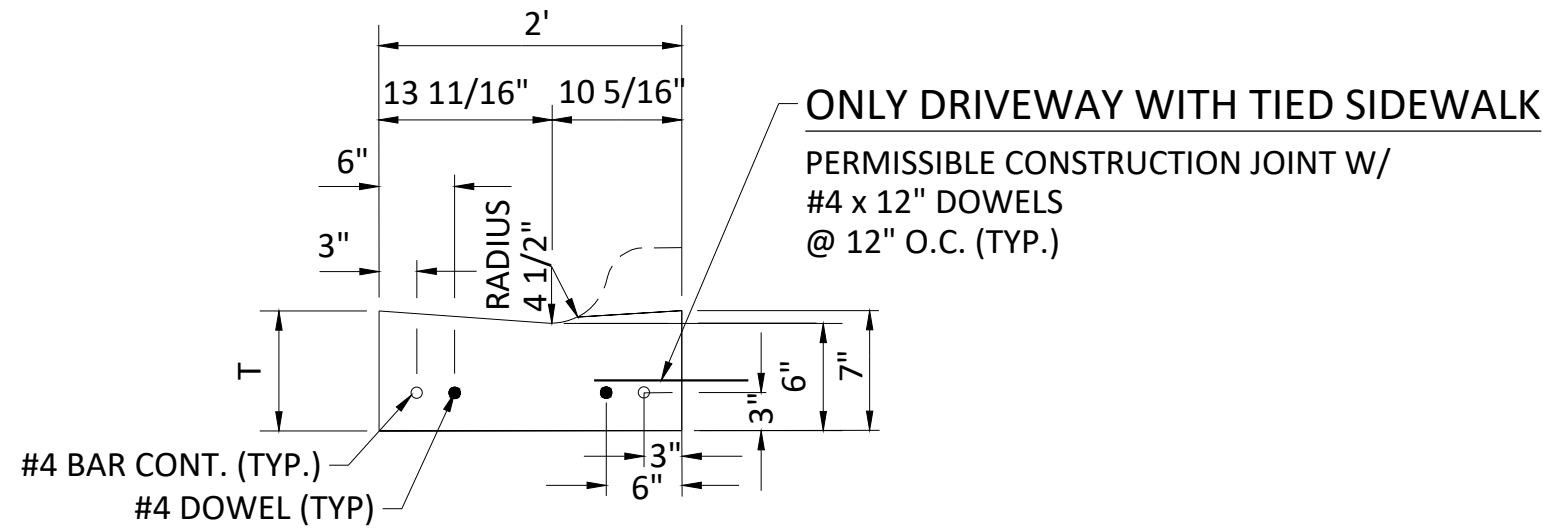
5
C19
1/2"=1'-0"
LOW WATER CROSSING



2
C19
N.T.S.
DRIVEWAY GUTTER PLAN



4
C19
N.T.S.
DRIVEWAY WITH TIED SIDEWALK SECTION

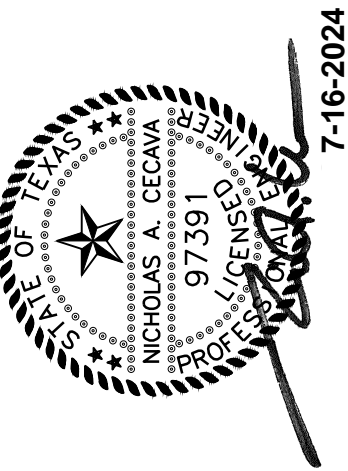


3
C19
N.T.S.
DRIVEWAY GUTTER SECTION

NOTE:

1. T = THICKNESS OF CONCRETE PAVEMENT OR CONCRETE CURB & GUTTER

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

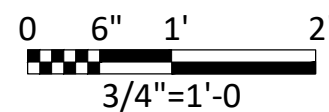
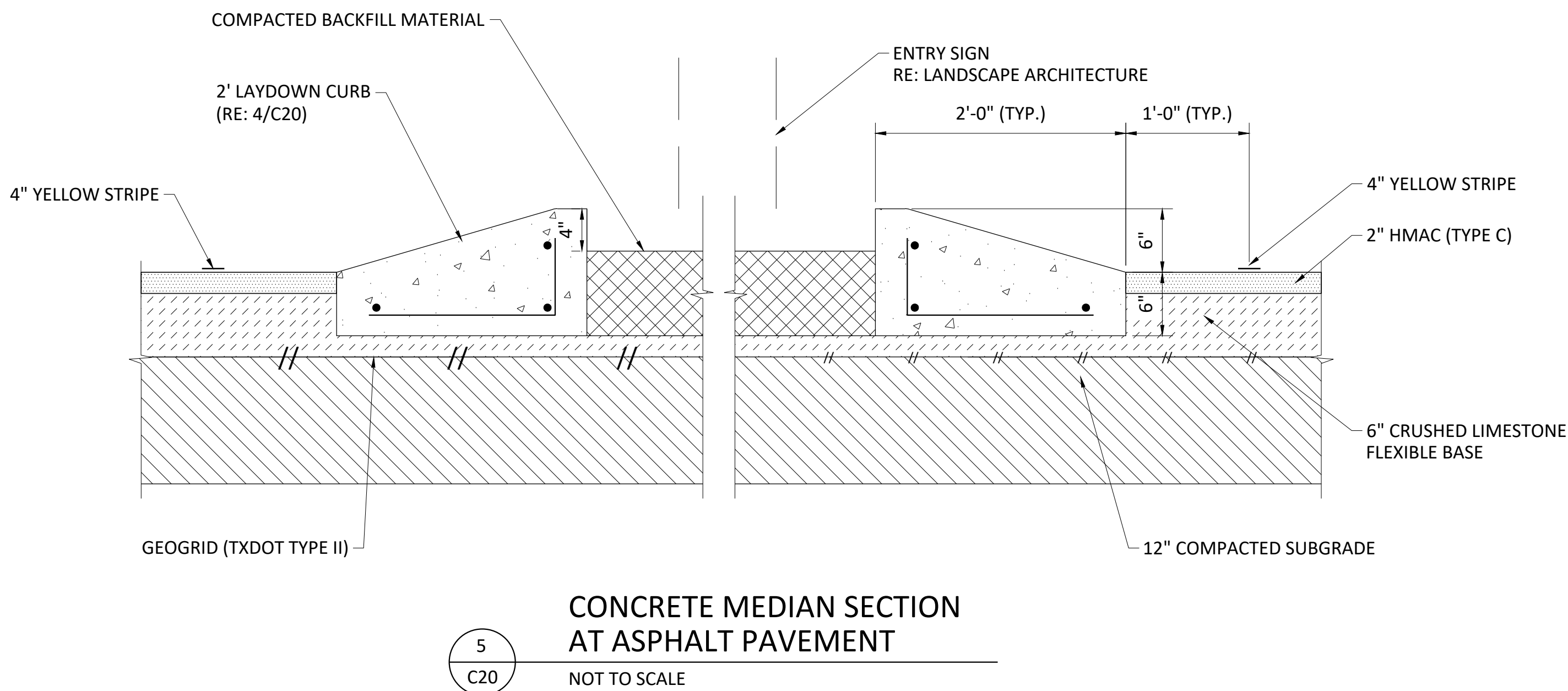
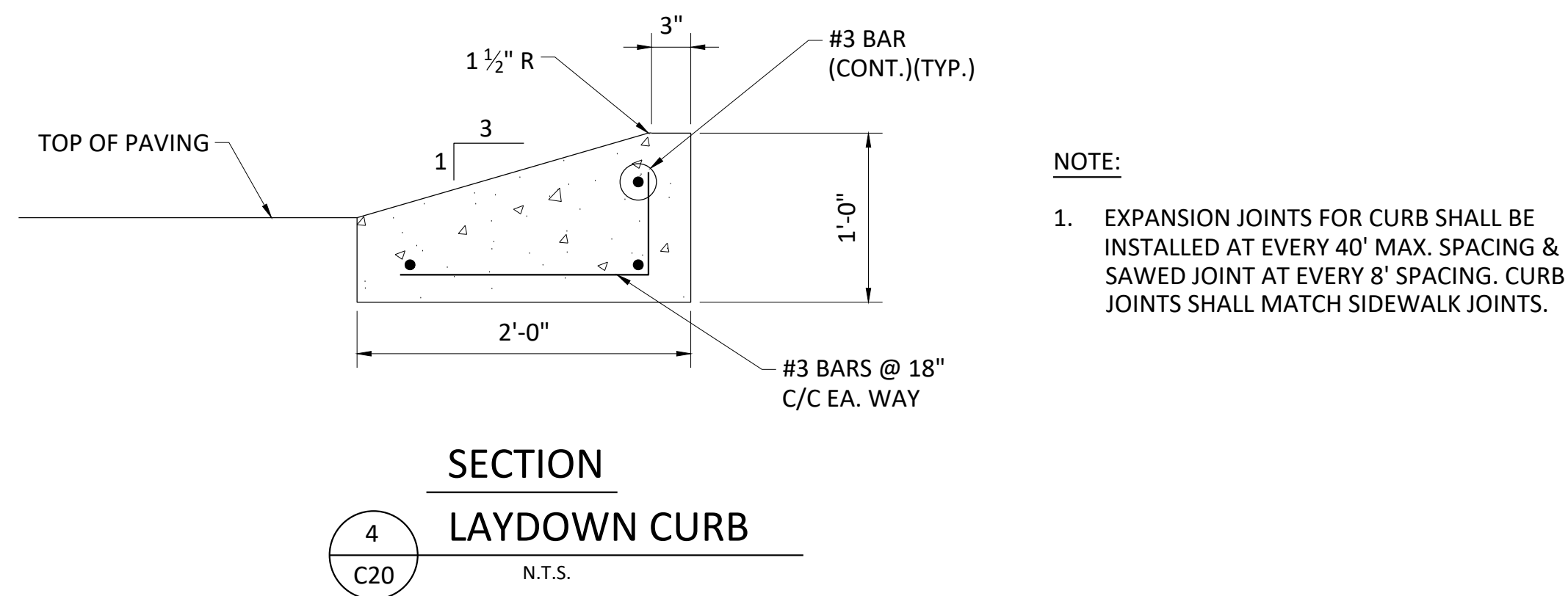
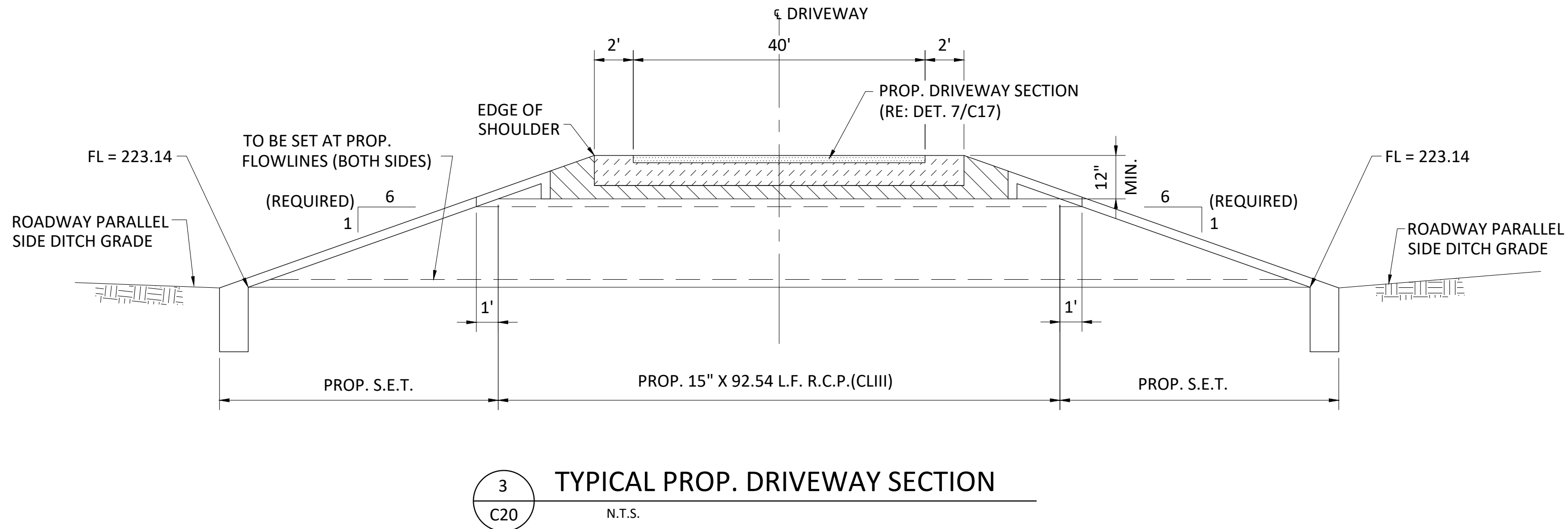
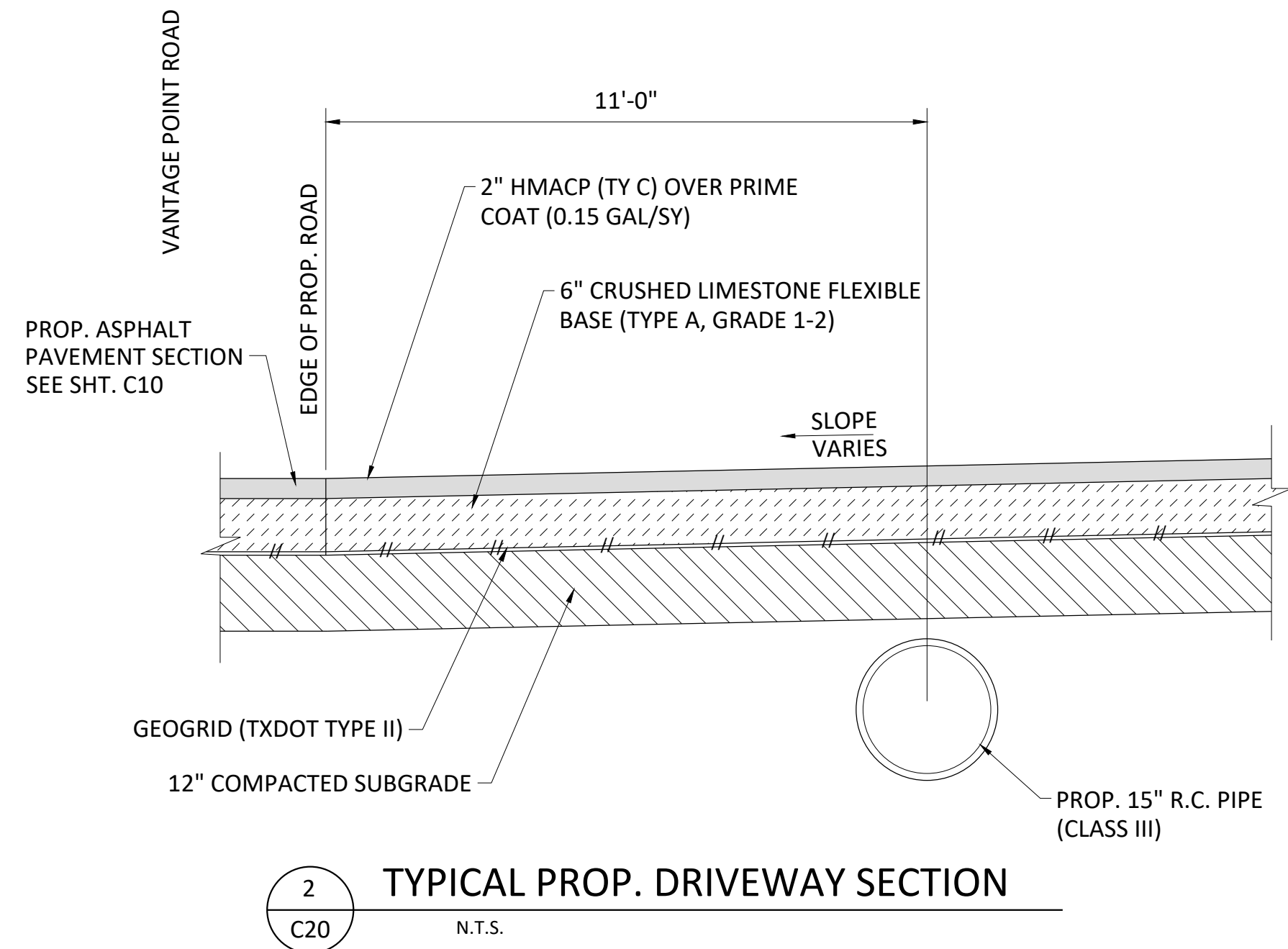
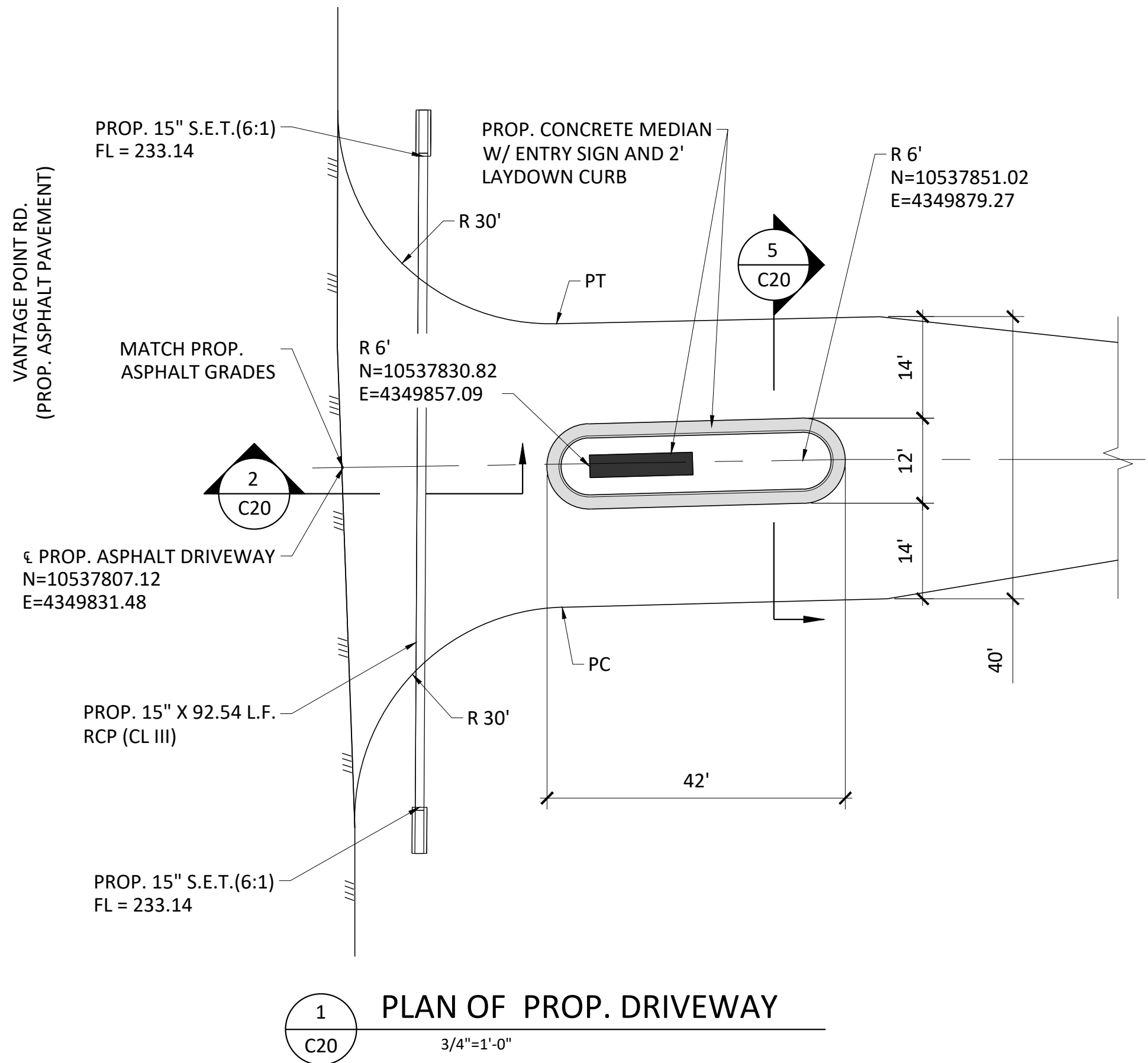
CIVIL
CIVIL DETAILS III

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				DESIGNED	NAC
				DRAWN	DWS
				CHECKED	
				APPROVED	NAC
				FILE NAME	CV-SRA-STD-TxDOT(01).dwg
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SHEET
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SEQ.

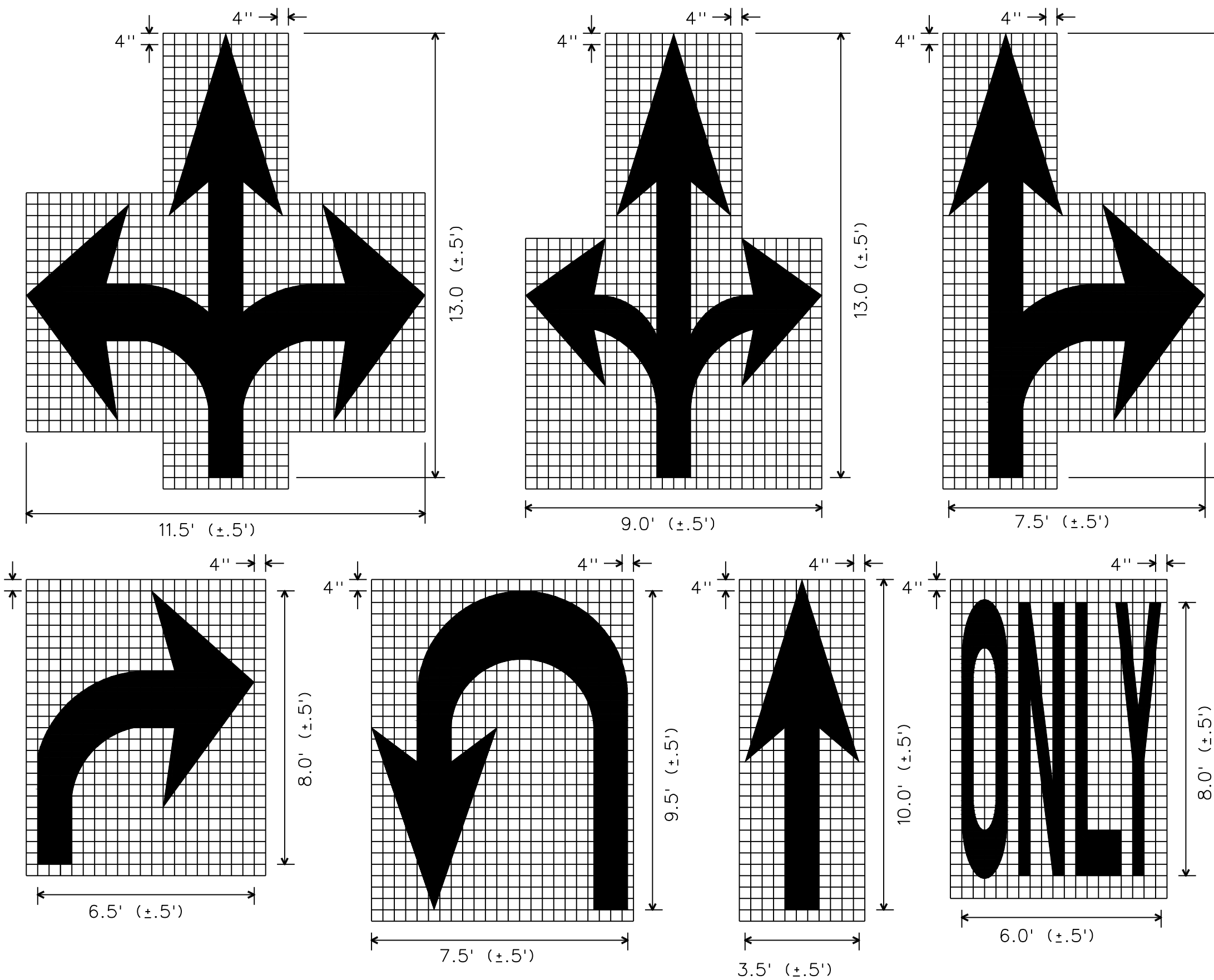
ISSUED FOR BID

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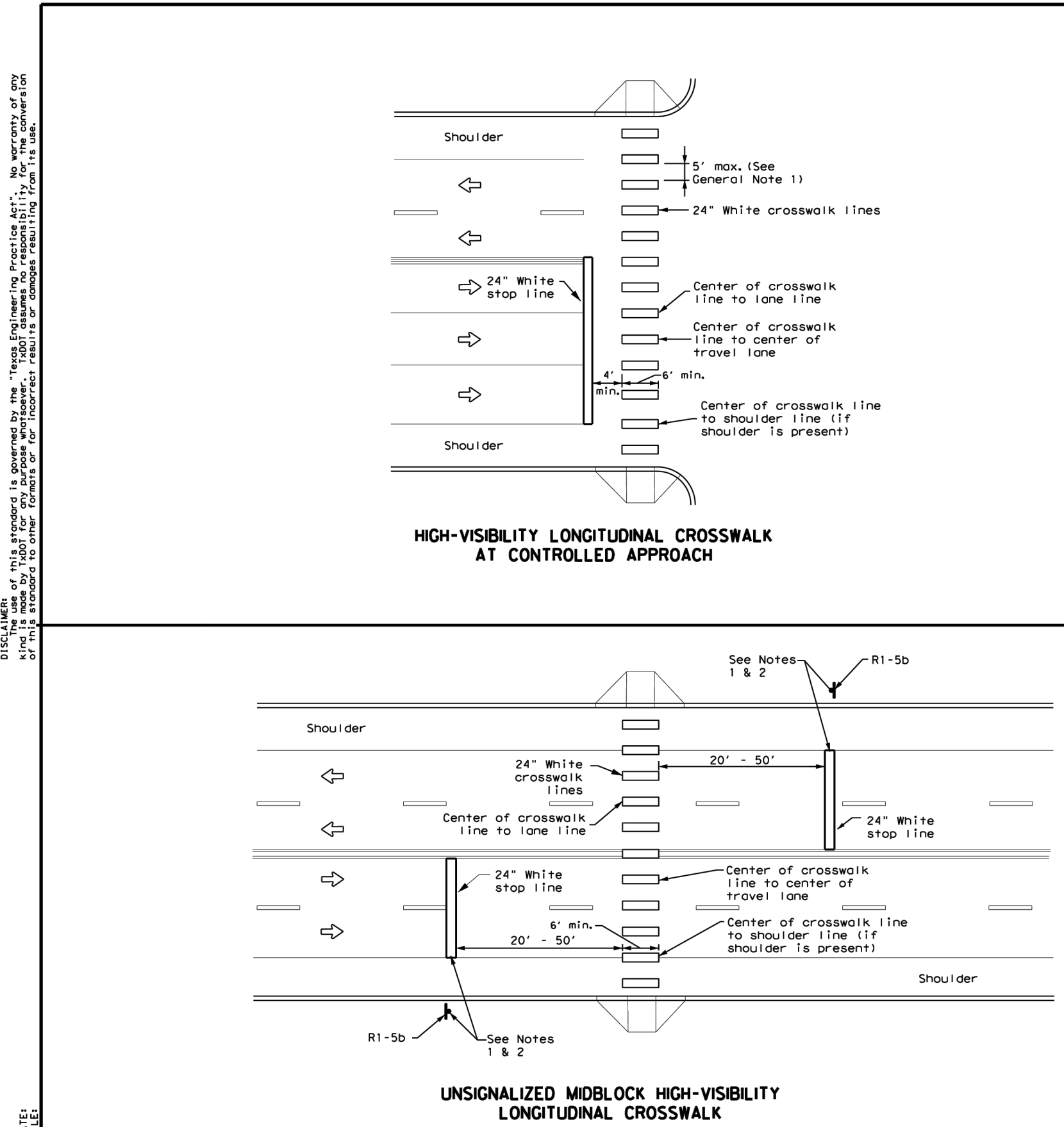
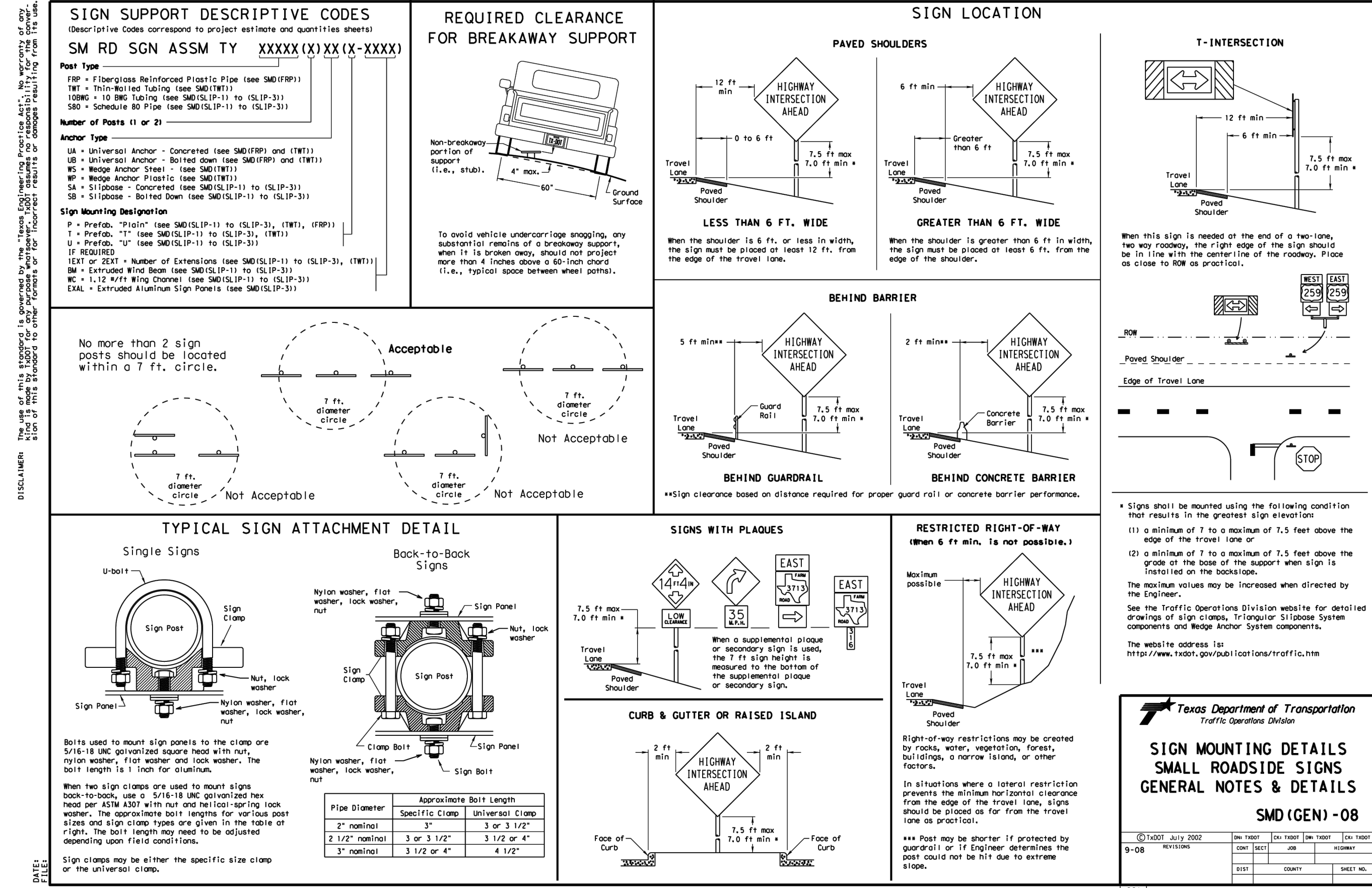
ISSUED FOR BID

Freeze and Nichols, Inc. Texas Registered Engineering Firm F-2144		 NICHOLAS A. CECAVA PROFESSIONAL ENGINEER No. 9739 State of Texas 7-16-2024	
SABINE RIVER AUTHORITY SABINETOWN RECREATION AREA		CIVIL	
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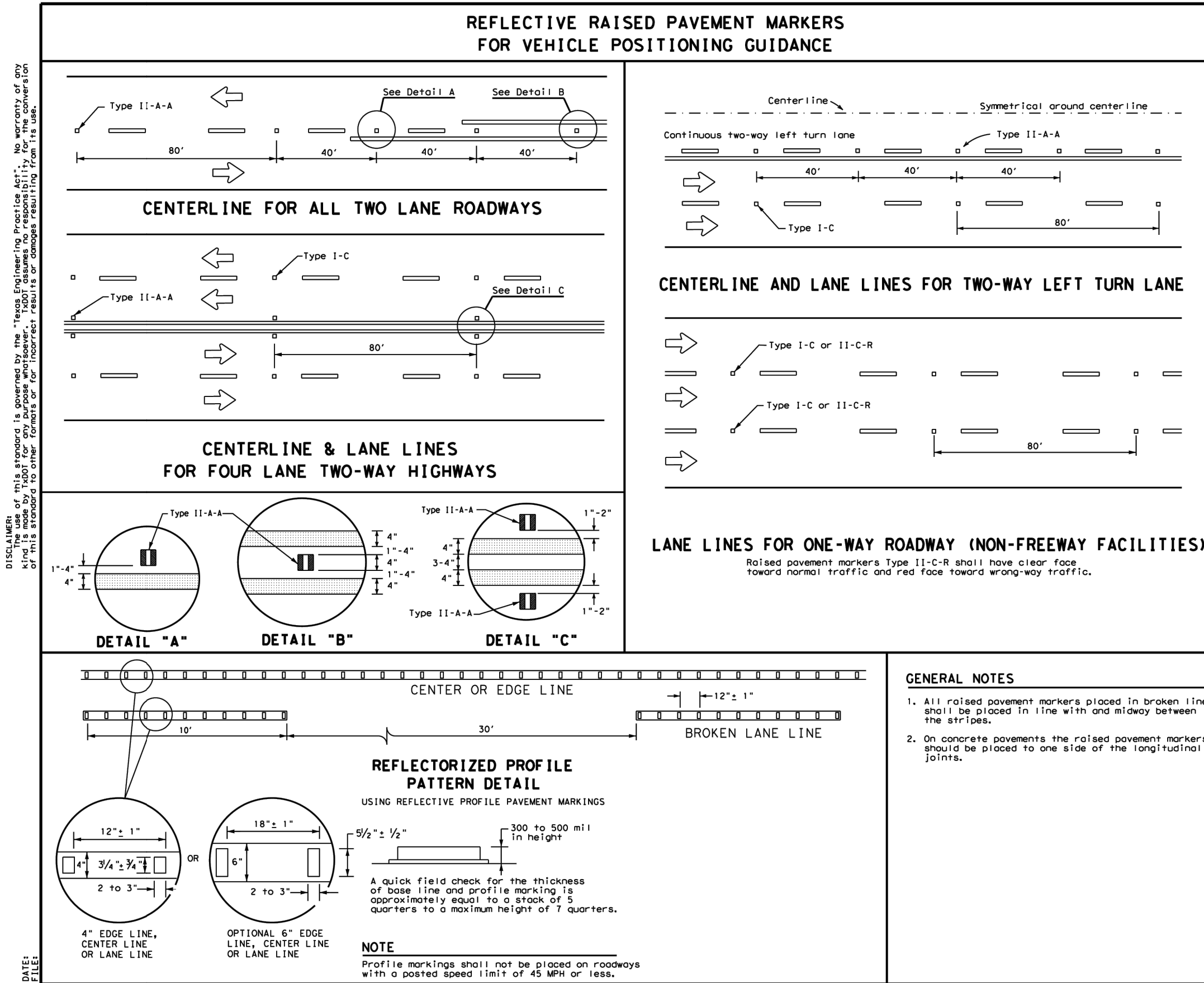
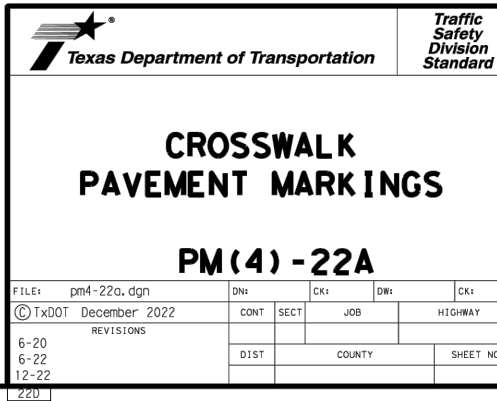
- GENERAL NOTES:**
- Minimum 8 foot wide markings should be used, unless otherwise noted. If message consists of more than one word, it should be placed with first word nearest the driver.
 - These details are standard size for normal installation sizes may be reduced approximately one-third for low speed urban conditions larger sizes may be needed for freeways, above average speed conditions or other critical locations.
 - The longitudinal space between markings should be at least four times the height of the markings, on low speed roads, but should not exceed ten times the height under any condition.
 - Markings considered appropriate for use when warranted include the following:
 - Regulatory
 - STOP
 - RIGHT (LEFT) TURN ONLY
 - 25 MPH
 - Symbolic
 - ARROWS
 - Warning
 - STOP AHEAD
 - SCHOOL AHEAD
 - SCHOOL X-ING
 - PED X-ING
 - R X R (see RCPM standard)
 - Guide
 - US XXX
 - ROUTE XXX
 - STATE XXXOther words or symbols may be necessary under certain conditions.
 - Uncontrolled use of pavement markings can result in driver confusion. Word and symbol markings should be no more than three lines.
 - The word "STOP" shall not be used on the pavement unless accompanied by a Stop line and Stop sign. The word "STOP" shall not be placed on the pavement in advance to a stop line, unless every vehicle is required to stop at all times.
 - Pavement markings should generally be no more than one line in width, with School messages being the exception. For details of School and School crossing pavement markings, refer to Part VII of the "Texas Manual on Uniform Traffic Control Devices".
 - Spacing between letters should be approximately 4 inches. The width of letters may vary depending on the width of the travel lanes.
 - Lane-use arrow markings may be used to convey either guidance or mandatory messages. Arrows used to convey a mandatory movement must be accompanied by standard signs and the pavement marking word "ONLY".
 - Pavement markings are to be located as specified elsewhere in the plans.

SPACING BETWEEN LINES OF PAVEMENT MARKINGS	
MPH	MINIMUM
≤45	4 TIMES THE LETTER HEIGHT
>45	MINIMUM - 4 TIMES THE LETTER HEIGHT MAXIMUM - 10 TIMES THE LETTER HEIGHT



- GENERAL NOTES**
- Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travel lanes, lane lines, and shoulder lines (if present).
 - A minimum 6' clear distance shall be provided to the curb face. If the last crosswalk line falls into this distance, it must be omitted.
 - For divided roadways, adjustments in spacing of the crosswalk lines should be made in the median so that the crosswalk lines are maintained in their proper location across the travel portion of the roadway.
 - At skewed crosswalks, the crosswalk lines are to remain parallel to the lane lines.
 - Each crosswalk shall be a minimum of 6' wide.
 - The High-Visibility Longitudinal Crosswalk is the preferred crosswalk pattern on State Highways. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices" may be used. All crosswalk designs and dimensions shall comply with the "Texas Manual on Uniform Traffic Control Devices."
 - Final placement of Stop Bar and Crosswalk shall be approved by the Engineer in the field.
- MATERIAL SPECIFICATIONS**
- | | |
|---|----------|
| PAVEMENT MARKERS (REFLECTORIZED) | DMS-4200 |
| EPOXY AND ADHESIVES | DMS-6100 |
| BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS | DMS-6130 |
| TRAFFIC PAINT | DMS-8200 |
| HOT APPLIED THERMOPLASTIC | DMS-8220 |
| PERMANENT PREFABRICATED PAVEMENT MARKINGS | DMS-8240 |
- All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

- NOTES:**
- Use stop bars with Stop Here For Pedestrians (R1-5b) signs at unsignalized midblock crosswalks.
 - Use stop bars with STOP HERE ON RED (R10-6 or R10-6a) signs at midblock crosswalks controlled by traffic signals or pedestrian hybrid beacons.



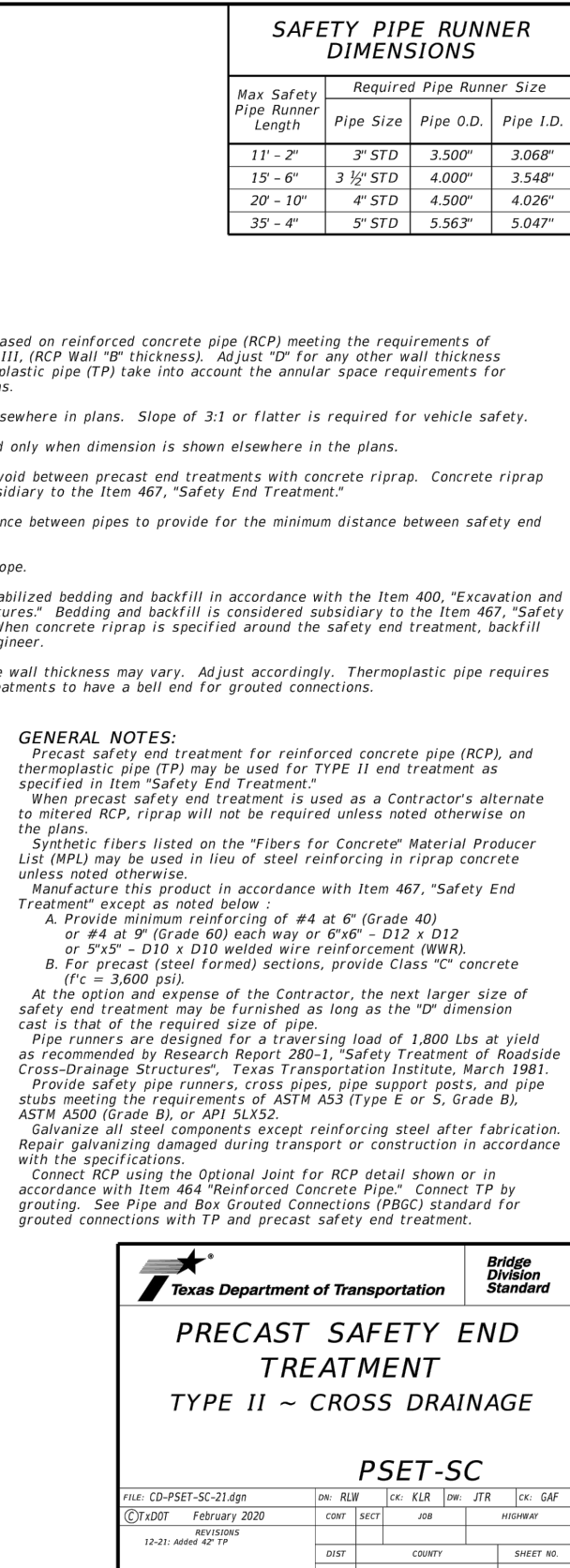
MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240


All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

RAISED PAVEMENT MARKERS

POSITION GUIDANCE USING RAISED MARKERS REFLECTORIZED PROFILE MARKINGS PM(2) - 20

1 Safety pipe runner
 2 1/2" galvanized steel bolt and nut with washers
 3 3/4" Threaded insert
 4 Pipe support post (post to be same diameter as safety pipe runner and fitted in a formed pocket)
 5 1/2" galvanized steel bolts with washers and inserts
 Flowline
 6" Min
 5" Min
 2" Min
 Pipe 10"
 Cement stabilized bedding and backfill
 Reinforcement to have 1" Min cover
 (If required)
 END DETAIL FOR INSTALLATION OF SAFETY PIPE RUNNERS
 SECTION A-A
 OPTION WITH SQUARE BOTTOM
 MULTIPLE PIPE INSTALLATION

[illegible]



Texas Department of Transportation

**Bridge Division
Standard**

PRECAST SAFETY END TREATMENT

TYPE II ~ CROSS DRAINAGE

PSET-SC

FILE: CD-PSET-SC-27.dgn	DN: PSLB	CL: KLR	DN: JTR	CL: GWF
CD100T February 2020	CONT	SECT	JOB	HIGHWAY
PROJECTS				
12-21: ARMY AC TP	DIST		COUNTY	SHEET NO.

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Cross slopes of 1:55 and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable, where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4'. Where a 5' sidewalk is required, 5' x 5' passing areas of intervals not to exceed 200' are required.
5. Turning Spaces shall be 5' x 5' minimum. Cross slope shall be maximum 2%.
6. Clear space at the bottom of curb ramps shall be a minimum of 4' x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
7. Provide flared sidewalks where the pedestrian circulation path crosses the curb ramp. Ramps shall be sloped at 1:55 and be required parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp. Where the adjacent surface is planted, substantially obstructed or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and materials may be found in the latest edition of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
9. To serve as a pedestrian refuge area, the median shall be a minimum of 6' wide, ramp or roadway curb ramp medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5' x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crossover dimensions, crossover markings and stop bar locations shall be as shown in elevations. Where the concrete curb ramp is not required, curbs shall not be required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Where a sidewalk is not required on curb ramp, a sidewalk shall not be required.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Provide and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
16. Furnish a smooth transition where the curb ramps connect to the street.
17. Curb shown on sheet within the limits of payment are considered part of the curb ramp or gutter. Curb shown outside the limits of payment are considered gutter.
18. Existing features that comply with applicable standards may remain in place unless otherwise shown on the plans.

19. Curb ramps must contain a detectable warning surface that consists of raised, truncated domes. The domes must be made of a durable material capable of withstanding adjoining surfaces, including side flows. Furnish and install an approved detectable warning surface on curb ramps and on the detectable warning surface adjacent to uncolored concrete, unless specified elsewhere in the plans.
20. Detectable Warning Materials must meet TxDOT Departmental Materials Specification 200-1.10, "Detectable Warning Materials." The materials must be installed in accordance with manufacturer's specifications.
21. Detectable warning surfaces must be firm, stable and slip resistant.
22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the ramp or landing is used for pedestrian travel.
23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the curb line. The detectable warning surface may be located along the curb line.
24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

DICTIONAL CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPED RAMP DOWN FROM CURB

 Texas Department of Transportation	Division Standard												
PEDESTRIAN FACILITIES CURB RAMPS													
PED-18													
ILE: pedw18 TXDOT MARCH, 2002 REV1510MG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DIN TxDOT</td> <td style="width: 15%;">IN YIP</td> <td style="width: 15%;">CIV KM</td> <td style="width: 55%;">CIV PL & S</td> </tr> <tr> <td>CON</td> <td>SECT</td> <td>JOB</td> <td>WQMARK</td> </tr> <tr> <td colspan="2">DIST</td> <td>COUNTY</td> <td>SHEET NO</td> </tr> </table>	DIN TxDOT	IN YIP	CIV KM	CIV PL & S	CON	SECT	JOB	WQMARK	DIST		COUNTY	SHEET NO
DIN TxDOT	IN YIP	CIV KM	CIV PL & S										
CON	SECT	JOB	WQMARK										
DIST		COUNTY	SHEET NO										

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GENERAL

1.

CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, INCLUDING LOCAL SUPPLEMENTS, EXCEPT WHERE APPLICABLE CODES OR THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.
2.

CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH APPLICABLE OSHA, STATE, AND LOCAL REGULATIONS. THIS DESIGN IS NOT INTENDED TO CONFLICT WITH SAFETY OR APPLICABLE REGULATIONS OR TO RELIEVE THE CONTRACTOR OF COMPLIANCE WITH THESE REQUIREMENTS. IN CASE OF CONFLICT WITH SAFETY OR APPLICABLE REGULATIONS, CONTACT THE ENGINEER FOR GUIDANCE BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.
3.

PRIOR TO FABRICATION OR CONSTRUCTION:

A.

REVIEW OTHER DISCIPLINE DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, PADS, INSERTS, EQUIPMENT REQUIREMENTS, ETCETERA, WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

B.

VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, PADS, INSERTS, EQUIPMENT REQUIREMENTS, ETCETERA.

C.

FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES.

D.

NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN DISCIPLINES, CONSTRUCTABILITY ISSUES, OR EXISTING CONDITIONS.
4.

REMOVE ALL ABANDONED FOUNDATIONS, UTILITIES, PIPELINES, ETCETERA THAT INTERFERE WITH NEW CONSTRUCTION.
5.

THE STRUCTURE IS DESIGNED FOR STABILITY IN THE FINAL CONDITION ONLY. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY DURING CONSTRUCTION.
6.

PLANS, SECTIONS, AND DETAILS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
7.

THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

LOADS (SERVICE/STRENGTH LEVEL, UNO)

1.

SUPERIMPOSED DEAD LOADS (NOT INCLUDING STRUCTURAL FRAMING SELF-WEIGHT):

A.

ROOF: 13 PSF

B.

ELEVATED FLOORS: 8 PSF
2.

FLOOR LIVE LOADS:

A.

MECH, ELECT, AND EQUIP ROOMS: 150 PSF

B.

SLAB-ON-GRADE: 100 PSF

C.

RESTROOMS: 50 PSF
3.

ROOF LIVE LOAD:

A.

ROOF: 20 PSF
4.

LATERAL LOADS:

A.

RISK CATEGORY II

B.

WIND LOAD:

i.

BASIC WIND SPEED: V = **110** MPH

ii.

WIND EXPOSURE: **C**

iii.

INTERNAL PRESSURE COEFFICIENT: GCpi = **+/-0.18**

C.

SEISMIC LOAD:

i.

SEISMIC IMPORTANCE FACTOR: I = **1.00**

ii.

MAPPED SPECTRAL ACCELERATIONS: SS = **0.116**, S1 = **0.058**

iii.

SITE CLASS: **D**

iv.

SPECTRAL RESPONSE COEFFICIENT: SDS = **0.124**, SD1 = **0.093**

v.

SEISMIC DESIGN CATEGORY: **A**

vi.

BASIC SEISMIC FORCE-RESISTING SYSTEM:

1.

ORDINARY TIMBER CONCENTRICALLY BRACED FRAME

2.

ORDINARY TIMBER WITH SHEAR WALLS

vii.

DESIGN BASE SHEAR V = 0.01W

viii.

SEISMIC RESPONSE COEFFICIENT: CS = 0.032

ix.

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- FOUNDATION
1.

FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT "GEOTECHNICAL ENGINEERING REPORT; SABINETOWN PARK DEVELOPMENT-PHASE 1; ; HEMPHILL, TEXAS", DATED APRIL 9, 2024, PREPARED BY RINER ENGINEERING, INC. A UES COMPANY (REPORT NO. 23-0711). A COPY OF THIS REPORT IS AVAILABLE FOR INSPECTION AT THE ENGINEER'S OFFICE FOR INFORMATIONAL PURPOSES ONLY. THE GEOTECHNICAL REPORT IS **NOT** PART OF THE CONTRACT DOCUMENTS.

2.

EXCAVATION DESIGN AND SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY SLOPES SHOWN ARE A MAXIMUM AND SHALL BE DECREASED AS REQUIRED FOR SAFETY OR TO MEET OSHA REQUIREMENTS.

3.

EXCAVATION AND SUBGRADE PREPARATION

A.

IN THE AREAS OF IMPROVEMENTS REMOVE AND DISPOSE OF ALL CONCRETE, TREES, STUMPS, BRUSH, DEBRIS, ROOTS, RUBBISH AND ANY OTHER UNDESIRABLE MATTER. ALL VEGETATION SHALL BE REMOVED AND THE EXPOSED SURFACE SCARIFIED TO AN ADDITIONAL DEPTH OF AT LEAST 6 INCES.

B.

BUILDING PAD AND PAVING SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK OR SIMILAR PNEUMATIC-TIRE EQUIPMENT TO LOCATE AREAS OF LOOSE SUBGRADE. IN AREAS TO BE CUT, THE PROOFROLL SHALL BE PERFORMED AFTER THE FINAL GRADE IS ESTABLISHED. IN AREAS TO BE FILLED, THE PROOFROOL SHALL BE PERFORMED PRIOR TO FILL PLACEMENT. AREAS OF LOOSE OR SOFT SUBGRADE ENCOUNTERED IN THE PROOFROLL SHALL BE REMOVED AND REPLACED WITH ENGINEERING FILL, MOISTURE CONDITIONED (DRIED OR WETTED, AS NEEDED) AND COMPACTED IN PLACE.

C.

LIMIT EXTREME WETTING OR DRYING OF THE SUBSURFACE SOILS TO PREVENT SWELLING AND SHRINKAGE OF SOILS. STANDARD CONSTRUCTION PRACTICES OF GOOD SURFACE WATER DRAINAGE MUST BE USED. POSITIVE SLOPE OF THE GROUND AWAY

D.

SOFT AND/OR WET SURFACE SOILS MAY BE ENCOUNTERED DURING CONSTRUCTION, ESPECIALLY FOLLOWING PERIODS OF WET WEATHER. IF SPECIFIED COMPACTION CANNOT BE ACHIEVED DUE TO SOFT OR WET SURFACE SOILS, ONE OF THE FOLLOWING CORRECTIVE MEASURES WILL BE REQUIRED:

i.

REMOVAL OF THE WET AND/OR SOFT SOIL AND REPLACEMENT WITH SELECT FILL

ii.

CHEMICAL TREATMENT OF THE WET AND/OR SOFT SOIL TO IMPROVE THE SUBGRADE STABILITY, OR

iii.

IF ALLOWED BY THE SCHEDULE, DRYING BY NATURAL MEANS

E.

SELECT FILL SHALL CONSIST OF SOIL WITH A LIQUID LIMIT LIESS THAN 35 AND A PLASTICITY INDEX BETWEEN 7 AND 20. THE SELECT FILL HALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8-INCHES AND SHALL BE COMPACTED TO AT LEAST 95 PERCENT MAXIMUM DRY DENSITY (PER ASTM D-698) AND AT A MOISTURE CONTENT BETWEEN OPTIMUM AND 4 PERCENT ABOVE OPTIMUM MOISTURE CONTENT.

F.

THE SUBGRADE TO RECEIVE SELECT FILL SHALL BE SCARIFIED TO A DEPTH OF 6-INCHES AND COMPACTED TO 92 TO 96 PERCENT OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698) AT A WORKABLE MOISTURE LEVEL AT LEAST 4 PERCENT POINTS ABOVE OPTIMUM.

G.

BASED ON LABORATORY TESTING CONDUCTED FOR THIS PROJECT, THE NATIVE CLAY ON-SITE SOILS WILL NOT MEET REQUIREMENTS FOR SELECT FILL OUTLINED ABOVE. AS AN ALTERNATIVE TO IMPORTING SELECT FILL, THE NATIVE CLAY SOIL MAY BE BLENDED WITH LIME TO REDUCE THE PLASTICITY INDEX TO MEET SELECT FILL REQUIREMENTS. PRIOR TO PROCEEDING WITH THIS OPTION, LIME SERIES TESTS SHALL BE PERFORMED TO ASSESS THE AMOUNT OF LIME REQUIRED.

H.

GENERAL FILL MAY BE PLACED IN IMPROVED AREAS OUTSIDE THE BUILDING PAD AREAS. GENERAL FILL SHALL CONSIST OF MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER WITH A LIQUID LIMIT LESS THAN 50. GENERAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8-INCHES AND SHALL BE UNIFORMLY COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY (PER ASTM D-698) AND WITH +/- 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.

I.

THE SUBGRADE MOISTURE CONTENT AND DENSITY SHALL BE MAINTAINED DURING CONSTRUCTION.

4.

ALL BELOW GRADE FOUNDATION ELEMENTS ARE DESIGNED WITH FORMED SIDES. IF THE CONTRACTOR ELECTS TO USE EARTH FORMED SIDES, THE EXPOSED SURFACE AND 12 INCHES BELOW GRADE SHALL BE FORMED TO THE DESIGN DIMENSION AND ONE INCH SHALL BE ADDED TO EACH SIDE TO PROVIDE ADEQUATE COVER OVER THE REINFORCING AT THE CONTRACTOR'S EXPENSE.

5.

DO NOT BACKFILL FOUNDATION WALLS UNTIL THE RESTRAINING SLABS OR ADEQUATE BRACING ARE IN PLACE.

6.

EXTERIOR SLABS SHALL SLOPE AWAY FROM THE STRUCTURE A MINIMUM OF 1/4" PER FOOT UNLESS NOTED OTHERWISE. GRADING AROUND STRUCTURES SHALL BE SUCH AS TO DRAIN ALL WATER AWAY FROM BUILDINGS.

7.

ALL FOUNDATIONS SHALL BEAR ON SOUND, UNDISTURBED, LEVEL EXCAVATIONS. REMOVE ANY AND ALL LOOSE DEBRIS FROM EXPOSED BEARING SURFACE. SUITABLE BEARING MATERIAL SHALL BE VERIFIED BY A GEOTECHNICAL PROFESSIONAL ENGINEER

8.

ALLOWABLE NET BEARING PRESSURE USED FOR FOUNDATION DESIGNS IS 1,500 PSF (NET DEAD LOAD PLUS SUSTAINED LIVE LOAD) AND 2,250 PSF (NET TOTAL LOAD PRESURE). THE BEARING PRESSURE IS BASED ON A FACTOR OF SAFETY OF 3 AND 2, RESPECTIVELY, AGAINST SHEAR FAILURE OF THE FOUNDATION BEARING SOILS.

9.

ALLOWABLE NET BEARING CAPACITY FOR CONTINUOUS STRIP FOOTING IS 2,000 PSF.

10.

MOISTURE CONTENT IN FOOTING EXCAVATIONS SHALL BE MAINTAINED UNTIL FOOTING IS PLACED. FOOTINGS SHALL BE PLACED AS SOON AS PRACTICAL AFTER EXCAVATIONS ARE COMPLETED.

11.

MUD SLABS, WHERE INDICATED, SHALL BE PLACED THE SAME DAY EXCAVATION IS COMPLETED. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE BEARING SURFACE IS FREE OF LOOSE AND/OR DELETERIOUS MATERIAL BEFORE PLACEMENT OF MUD SLAB.

12.

WORKING PLATFORM: 8" OF COMPACTED CLEAN CRUSHED STONE (ASTM C33 NO. 57 COARSE AGGREGATE) OVER NON-WOVEN GEOTEXTILE (MIRAFI 1100N OR APPROVED EQUAL). LAP SEGMENTS A MINIMUM OF 3FEET BUT NOT LESS THAN THAT REQUIRED BY THE MANUFACTURER. EXTEND GEOTEXTILE BEYOND LIMITS OF CRUSHED STONE AS REQUIRED TO ENCLOSE ENDS OF CRUSHED STONE AND TOP WHERE EXPOSED. EXTEND GEOTEXTILE AN ADDITIONAL 12" TO RETURN/LAP UNDER CONCRETE SLAB.

13.

PLACEMENT OF WORK PLATFORM SHALL BE [WITHIN 24 HOURS OF][THE SAME DAY AS] FINAL EXCAVATION. IF THIS TIME LIMITATION CANNOT BE MET, THEN AT A MINIMUM, 6" OF EXCAVATION SHALL REMAIN UNTIL WORK PLATFORM IS PLACED.

CONCRETE

1.

CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITIONS OF ACI 301 AND ACI 318.][CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITIONS OF ACI 301 AND ACI 350.

2.

ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS NOTED OTHERWISE, SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL (ACI SP-66), LATEST EDITION.

3.

CONCRETE SHALL HAVE SPECIFIED COMPRESSIVE STRENGTHS, f'c, AT 28-DAYS AS FOLLOWS:

A.

GRADE BEAMS: 4,000 PSI

B.

RETAINING WALLS: 5,000 PSI

C.

SIDEWALKS AND CURBS:3,000 PSI

D.

OTHER: 3,000 PSI

E.

CEMENT: PORTLAND CEMENT, ASTM C150, TYPE I/II, EQUIVALENT ALKALIES < 0.60%

F.

W/C RATIO: 0.45 MAXIMUM

G.

AGGREGATE: ASTM C 33, 1" MAXIMUM, CLASS 3M

H.

ENTRAINED AIR: ACI 318-08, EXPOSURE CLASS F1

I.

SLUMP: 5" (+/-1")

4.

ALL REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60, DEFORMED.

5.

CONCRETE CLEAR COVER OVER REINFORCING SHALL BE AS LISTED BELOW, UNLESS NOTED OTHERWISE.

A.

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

B.

ALL OTHER: 2"

C.

SEE DRAWINGS FOR EXCEPTIONS

6.

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" INSIDE FORMS OR TOOLED TO 3/4" RADIUS ON SLABS UNLESS NOTED OTHERWISE.

7.

SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS AND/OR CONTROL JOINTS LOCATED AS SHOWN ON THE DRAWINGS OR AT 15 FEET MAXIMUM SPACING. DO NOT PROVIDE CONTROL JOINTS IN STRUCTURAL SLABS. CONTRACTOR SHALL LOCATE SLAB JOINTS ON RECORD INFORMATION SHOP DRAWINGS.

8.

ALL CONSTRUCTION JOINTS (CXJ) SHALL BE THOROUGHLY CLEANED AND PURPOSELY ROUGHENED TO 1/4" PRIOR TO PLACING ADJACENT CONCRETE.

9.

ADDITIONAL CONSTRUCTION JOINTS SHALL HAVE PRIOR APPROVAL OF THE ENGINEER.

10.

PENETRATIONS OTHER THAN SHOWN SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

11.

IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED AS FAR AS REQUIRED DUE TO THE LIMITED EXTENT OF THE ADJACENT CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOKS.

12.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING, TEMPORARY BRACING AND SHORING.

13.

CONDUITS AND PIPING EMBEDDED IN CONCRETE SHALL BE SPACED A MINIMUM OF FOUR DIAMETERS AND THE OUTSIDE DIAMETER SHALL BE LESS THAN 30% OF THE MEMBER THICKNESS PLACED BETWEEN LAYERS OF REINFORCING.

14.

UNLESS NOTED OTHERWISE, HOOKS SHOWN ON DRAWINGS SHALL BE ASSUMED TO BE STANDARD HOOKS PER ACI 318.

15.

UNLESS NOTED OTHERWISE, LAP SPLICES IN BEAMS AND WALLS SHALL BE STAGGERED.

16.

BUNDLED BARS ARE BARS PLACED IN CONTACT WITH EACH OTHER IN GROUPS OF TWO, THREE, OR FOUR. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

17.

ALL REINFORCING SHALL BE CONTINUOUS. CONTINUOUS BARS SHALL LAP 48 BAR DIAMETERS OF SMALLER BAR LAPPED, UNLESS NOTED OTHERWISE. ALL REBAR EMBEDMENT LENGTHS SHALL BE 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

POST-INSTALLED ANCHORS (EXPANSION OR ADHESIVE)

1.

INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), BUT NOT LESS THAN THAT INDICATED BELOW.

2.

INSTRUCTIONS BELOW ARE NOT INTENDED TO CONFLICT WITH APPLICABLE SAFETY OR OSHA REGULATIONS OR TO RELIEVE CONTRACTOR OF COMPLIANCE WITH ALL APPLICABLE SAFETY AND OSHA REGULATIONS. IN CASE OF CONFLICT WITH SAFETY OR OSHA REGULATIONS, CONTACT THE ENGINEER FOR GUIDANCE BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.

3.

ADHESIVE ANCHORS SHALL ONLY BE INSTALLED BY CONSTRUCTION PERSONNEL CERTIFIED UNDER ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL. SUBMIT CERTIFICATIONS AS RECORD DATA PRIOR TO ANCHOR INSTALLATION.

4.

SUBMIT ANCHOR MATERIAL CERTIFICATIONS AND ALLOW INSPECTION OF UNOPENED ANCHORS ONSITE, PRIOR TO INSTALLATION.

5.

ANCHOR DIAMETER AND EMBEDMENT SHALL BE AS INDICATED.

6.

HOLES SHALL BE DRILLED USING ROTARY HAMMER DRILLS WITH ANSI MATCHED TOLERANCE CARBIDE-TIPPED DRILL BITS. DRILL BIT DIAMETER SHALL MATCH DIAMETER RECOMMENDED BY MANUFACTURER. DRILL HOLES USING ANCHOR MANUFACTURER'S VACUUM DUST EXTRACTION SYSTEM OR APPROVED EQUAL.

7.

USE CARE AND CAUTION WHEN INSTALLING TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING STEEL. FIELD VERIFY EXISTING REINFORCING LOCATIONS PRIOR TO FABRICATION OR CONSTRUCTION, AND THEN COORDINATE REBAR LOCATIONS WITH SHOP DRAWINGS.

8.

~~EXPANSION ANCHORS~~ SHALL BE A STUD BOLT TYPE WITH HEX HEAD NUT AND SHALL BE 316 STAINLESS STEEL UNLESS NOTED OTHERWISE, AND AS NOTED BELOW:

A.

ANCHORS SHALL BE DEWALT POWER STUD+, HILTI KWIK BOLT TZ2, OR SIMPSON STRONG-TIE STRONG-BOLT 2.

B.

VERIFY HOLE IS CLEAR OF DUST AND DEBRIS.

C.

DRIVE ANCHOR INTO HOLE WITH A HAMMER AND THEN TIGHTEN TO SPECIFIED TORQUE.

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144

7-16-2024

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

STRUCTURAL

STRUCTURAL NOTES (01)

NO.	ISSUE	BY	DATE	F&N JOB NO.	DATE	DESIGNED	DRAWN	CHECKED	APPROVED	FILE NAME
				SRA23985	07/17/24	SRT	DKS		SRT	ST-SRA-GN-NOTES(01).dwg
VERIFY SCALE: 1 if not one inch on this sheet, adjust 0										
Bar Scale is one inch on original drawing.										

SHEET

S1

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9. ADHESIVE ANCHORS SHALL BE DEFORMED REINFORCING BARS (ASTM A615, GR 60) OR 316 STAINLESS STEEL THREADED ROD, UNLESS NOTED OTHERWISE, AND AS NOTED BELOW:
- A. ADHESIVE SHALL BE DEWALT PURE220+, HILTI HIT-RE 500 V3, OR SIMPSON STRONG-TIE SET-3G. USE DEWALT AC200, HILTI HIT-HY 270, SIMPSON STRONG-TIE SET-3G FOR HOLLOW AND GROUTED MASONRY.
 - B. PRIOR TO INSTALLATION: ALL DEFORMED BARS AND THREADED ROD SHALL BE CLEAN, FREE OF OIL, GREASE, OR OTHER RESIDUE, IN ACCORDANCE WITH MPII.
 - C. VERIFY HOLE IS CLEAR OF DUST AND DEBRIS.
 - D. INSTALL ADHESIVE STARTING AT BACK OF HOLE. AS REQUIRED BY MPII, USE MANUFACTURER SUPPLIED PISTON PLUG INJECTION SYSTEM FOR ALL HORIZONTAL AND VERTICALLY INCLINED HOLES.
 - E. INSTALL ANCHOR BY SIMULTANEOUSLY TWISTING AND INSERTING INTO HOLE.
 - F. ALLOW ANCHOR TO SET REQUIRED TIME. DO NOT DISTURB.
 - G. TIGHTEN NUT. DO NOT OVER-TORQUE.
 - H. MINIMUM CONCRETE AGE AT TIME OF INSTALLATION: 28DAYS
 - I. CONCRETE TEMPERATURE RANGE AT TIME OF INSTALLATION SHALL BE: 41DEG F TO 104DEG F.
 - J. CONCRETE MOISTURE CONDITION AT TIME OF INSTALLATION: DRY.

PRE-ENGINEERED BUILDING

1. THE BUILDING SHALL BE A MANUFACTURER'S STANDARD PRE-ENGINEERED STRUCTURE OF THE APPROXIMATE INSIDE AREA SHOWN, EXCEPT AS NOTED. OVERALL DIMENSIONS AND CONSTRUCTION DETAILS MAY VARY TO SUIT MANUFACTURER'S STANDARD DESIGN.
2. THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO AISC, MBMA AND AISI LATEST SPECIFICATIONS. THE DIMENSIONAL TOLERANCES OUTLINED IN THE AWS CODE UNDER WORKMANSHIP AND THE TOLERANCES APPLICABLE TO ROLL FROM STEEL UNDER THE AISC "STANDARD MILL PRACTICE", SECTION SHALL BE REQUIRED IN THE FABRICATION OF THE STEEL BUILDING FRAMES.
3. THE BUILDING FRAME SHALL BE DESIGNED TO LIMIT THE LATERAL DEFLECTION TO L/180 AT THE BUILDING EAVE, WHERE L IS THE HEIGHT OF THE BUILDING EAVE.
4. THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL EQUIPMENT INCLUDING HEATERS, SPRINKLERS, EXHAUST SYSTEM, AND ALL OTHER SUCH DEVICES. ADDITIONAL GIRTS OR PURLINS SHALL BE PLACED IN CONVENIENT LOCATIONS FOR ATTACHMENT OF ALL MECHANICAL EQUIPMENT.
5. DESIGN LOADS SHALL CONFORM TO THE GENERAL NOTES AND LOAD COMBINATIONS SHALL COMPLY WITH MBMA SPECIFICATIONS.
6. UNLESS CROSS BRACING IS USED TO RESIST LATERAL LOADS, LOAD TESTS ON METAL PANEL WALLS AND ROOF MUST BE SUBMITTED WHERE THESE ARE USED AS A DIAPHRAGM.


ISSUED FOR BID

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144



7-16-2024

Shane Torino



800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
Web - www.freeze.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

STRUCTURAL

STRUCTURAL NOTES (02)

NO. ISSUE

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BY

DATE

F&N JOB NO.

SRA23985

DATE

07/17/24

DESIGNED

SRT

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DKS

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APPROVED

FILE NAME

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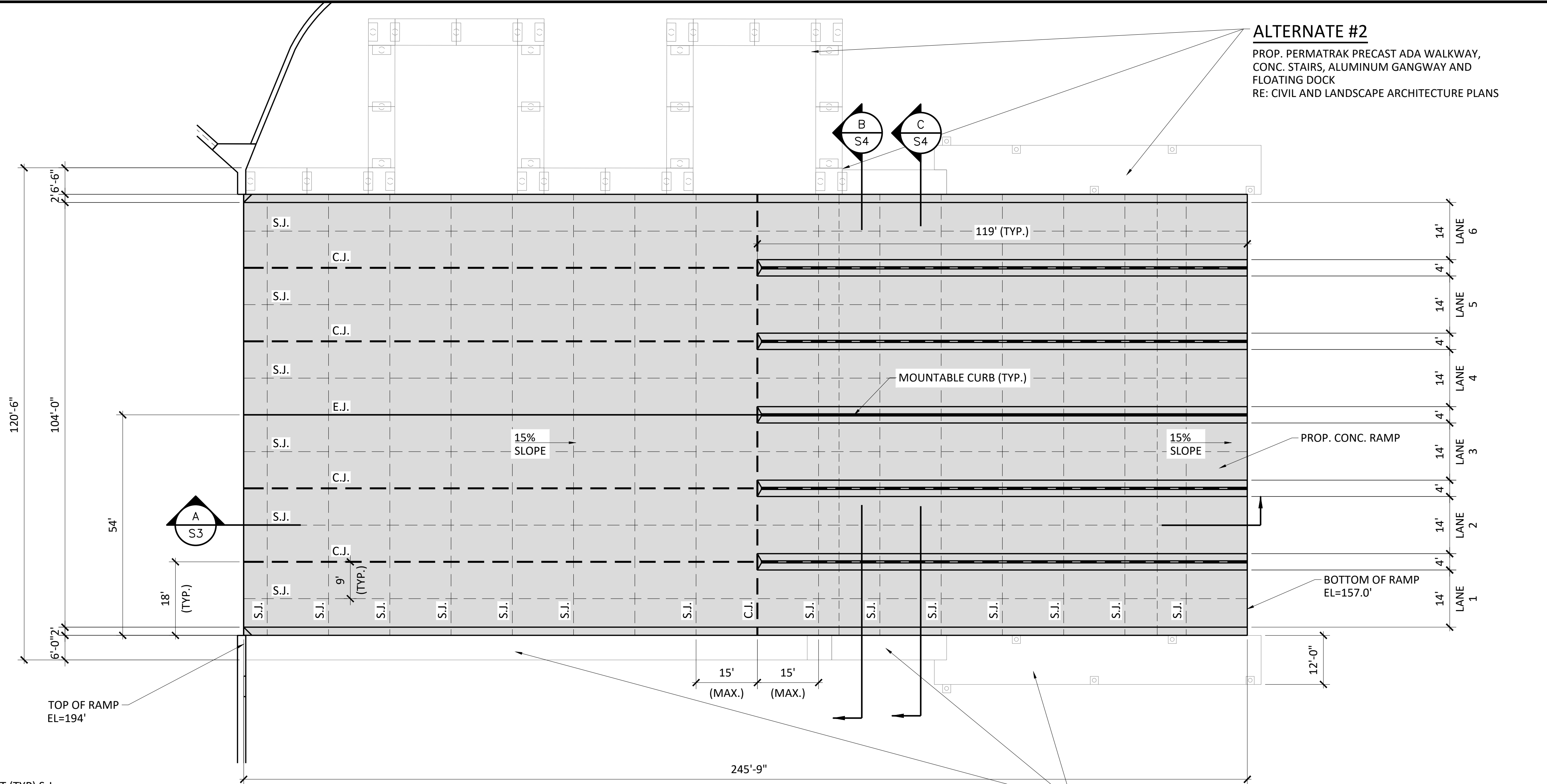
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S2

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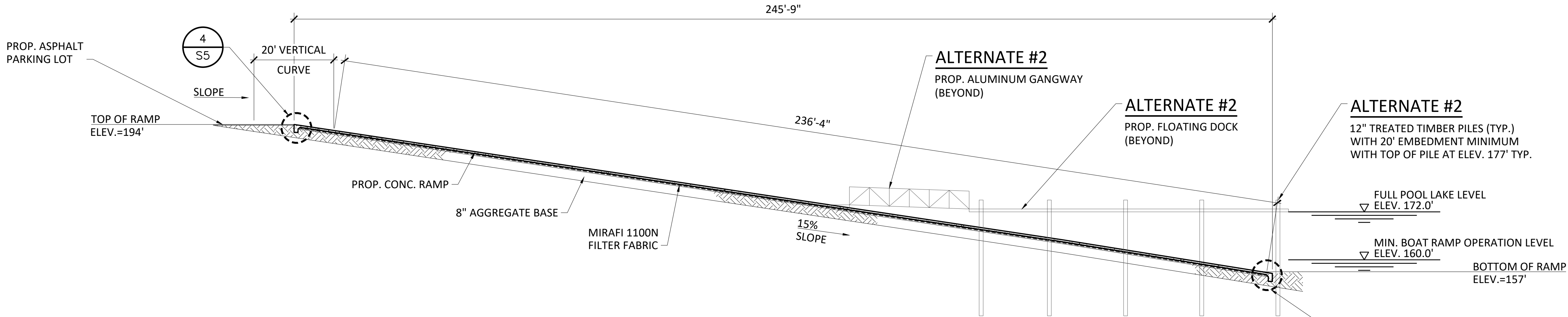
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- LEGEND**
- = SAWED JOINT (TYP) S.J.
 - = EXPANSION JOINT (TYP) E.J.
 - = CONSTRUCTION JOINT (TYP) C.J.



ALTERNATE #2
PROP. PERMATRAK PRECAST ADA WALKWAY,
CONC. STAIRS, ALUMINUM GANGWAY AND
FLOATING DOCK
RE: CIVIL AND LANDSCAPE ARCHITECTURE PLANS

ALTERNATE #3
PROP. CONC. WALKWAY, ALUMINUM GANGWAY,
AND FLOATING DOCK
RE: CIVIL AND LANDSCAPE ARCHITECTURE PLANS



ALTERNATE #2
PROP. ALUMINUM GANGWAY
(BEYOND)

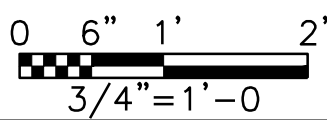
ALTERNATE #2
PROP. FLOATING DOCK
(BEYOND)

ALTERNATE #2
12" TREATED TIMBER PILES (TYP.)
WITH 20' EMBEDMENT MINIMUM
WITH TOP OF PILE AT ELEV. 177' TYP.

FULL POOL LAKE LEVEL
▽ ELEV. 172.0'

MIN. BOAT RAMP OPERATION LEVEL
▽ ELEV. 160.0'

BOTTOM OF RAMP
ELEV.=157'



ISSUED FOR BID

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

Shane Ray Torgon
7-16-2024

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

STRUCTURAL

BOAT RAMP PLAN AND SECTIONS

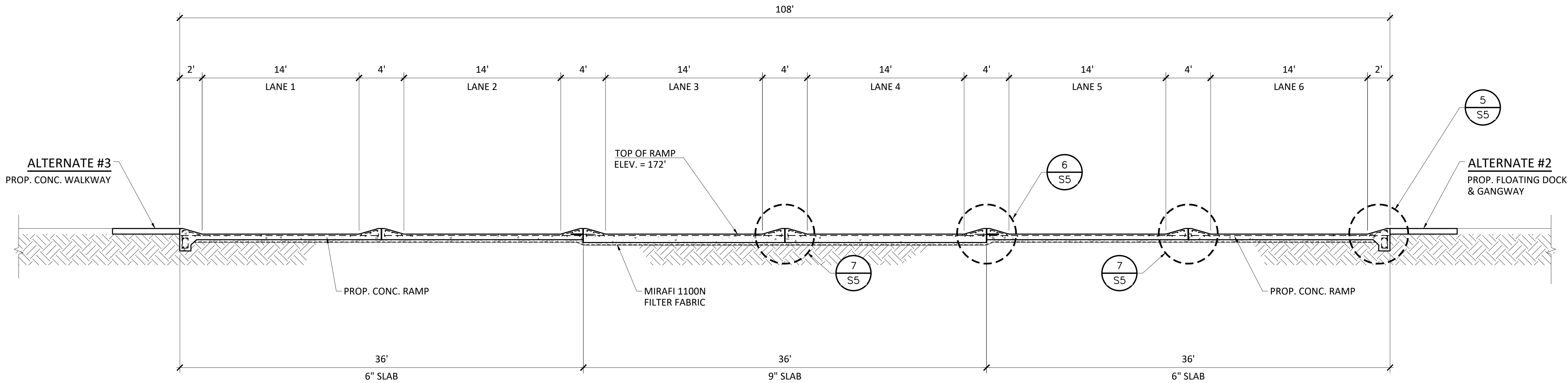
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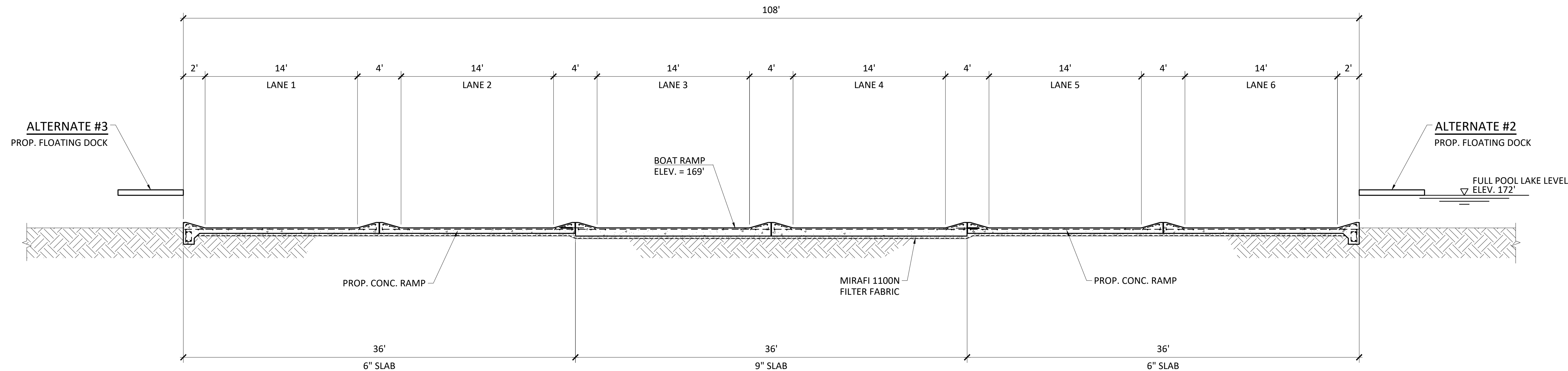
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SHEET 33

SEQ.



SECTION B
1"=5'



SECTION C
1"=5'



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Phoebe Jones

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

STRUCTURAL

BOAT RAMP SECTIONS

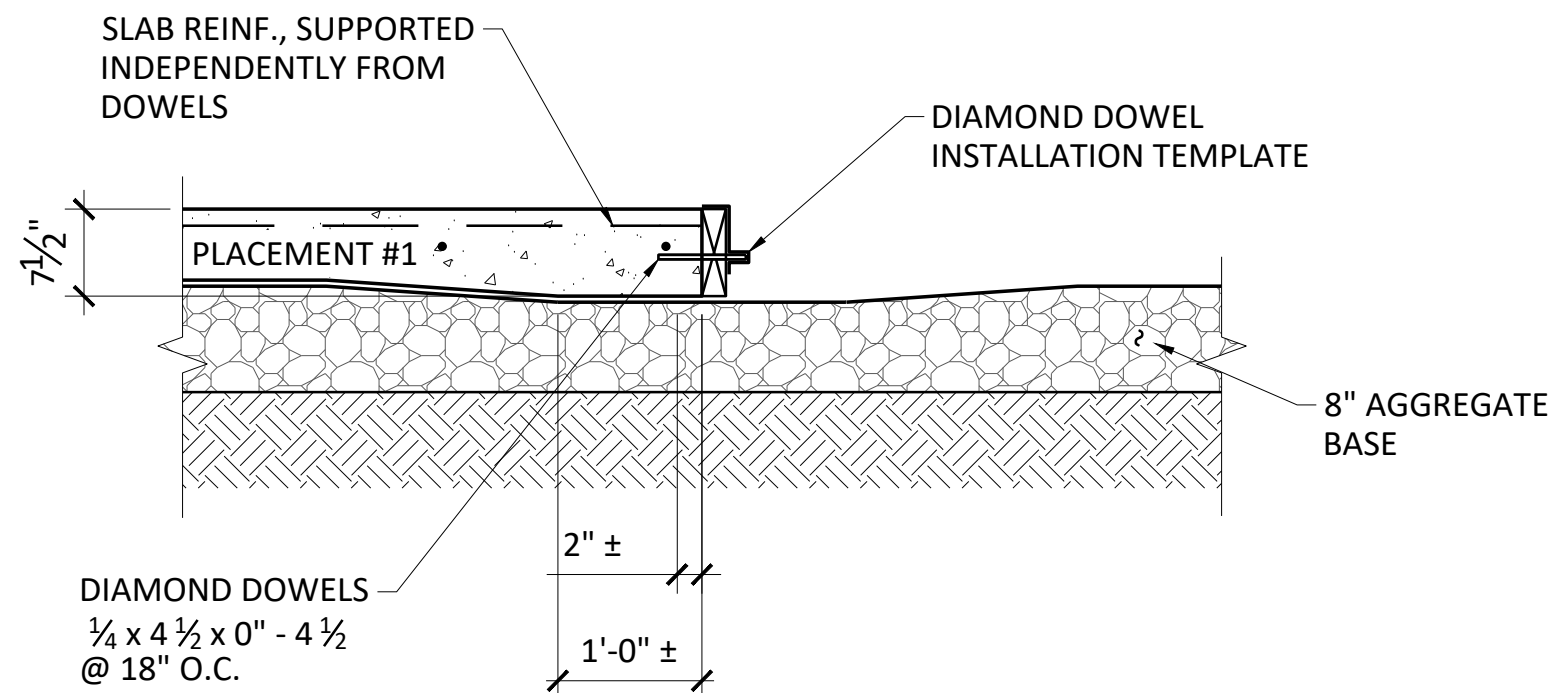
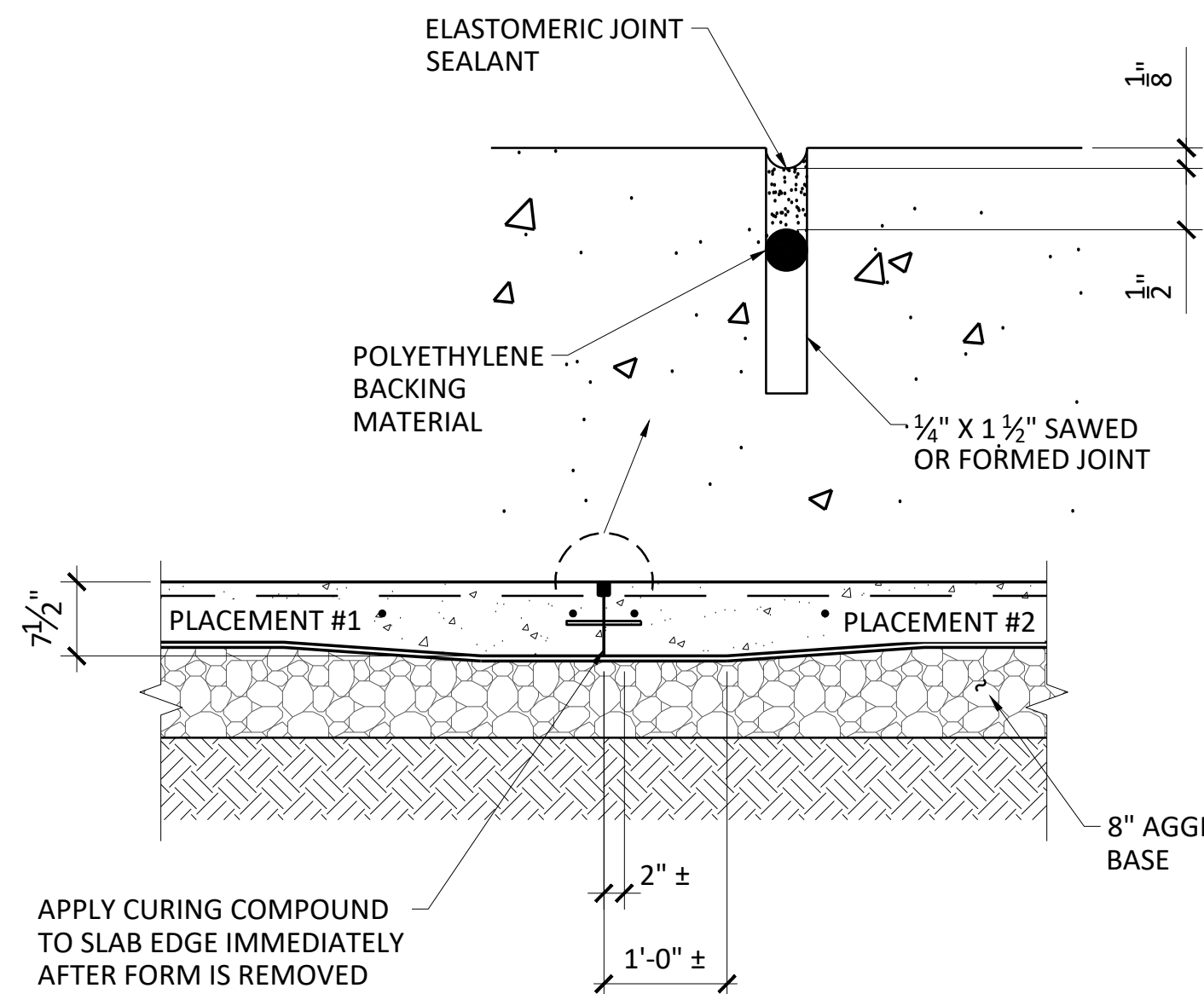
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SHEET S4

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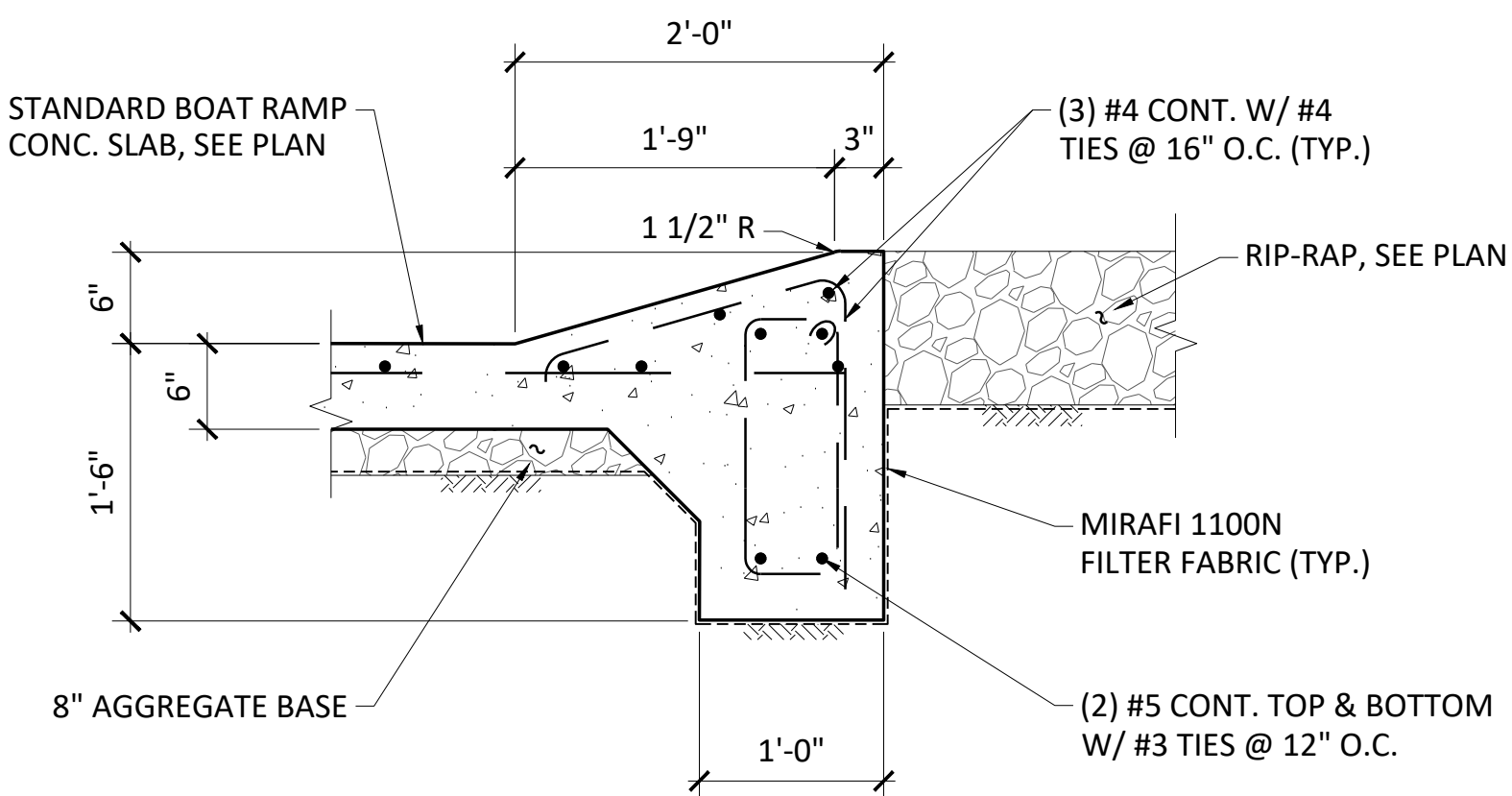


SLAB-ON-GRADE DOWELED JOINT DETAILS - 6" SLAB

1
S5
SCALE: 3/4"= 1'-0"

NOTES:

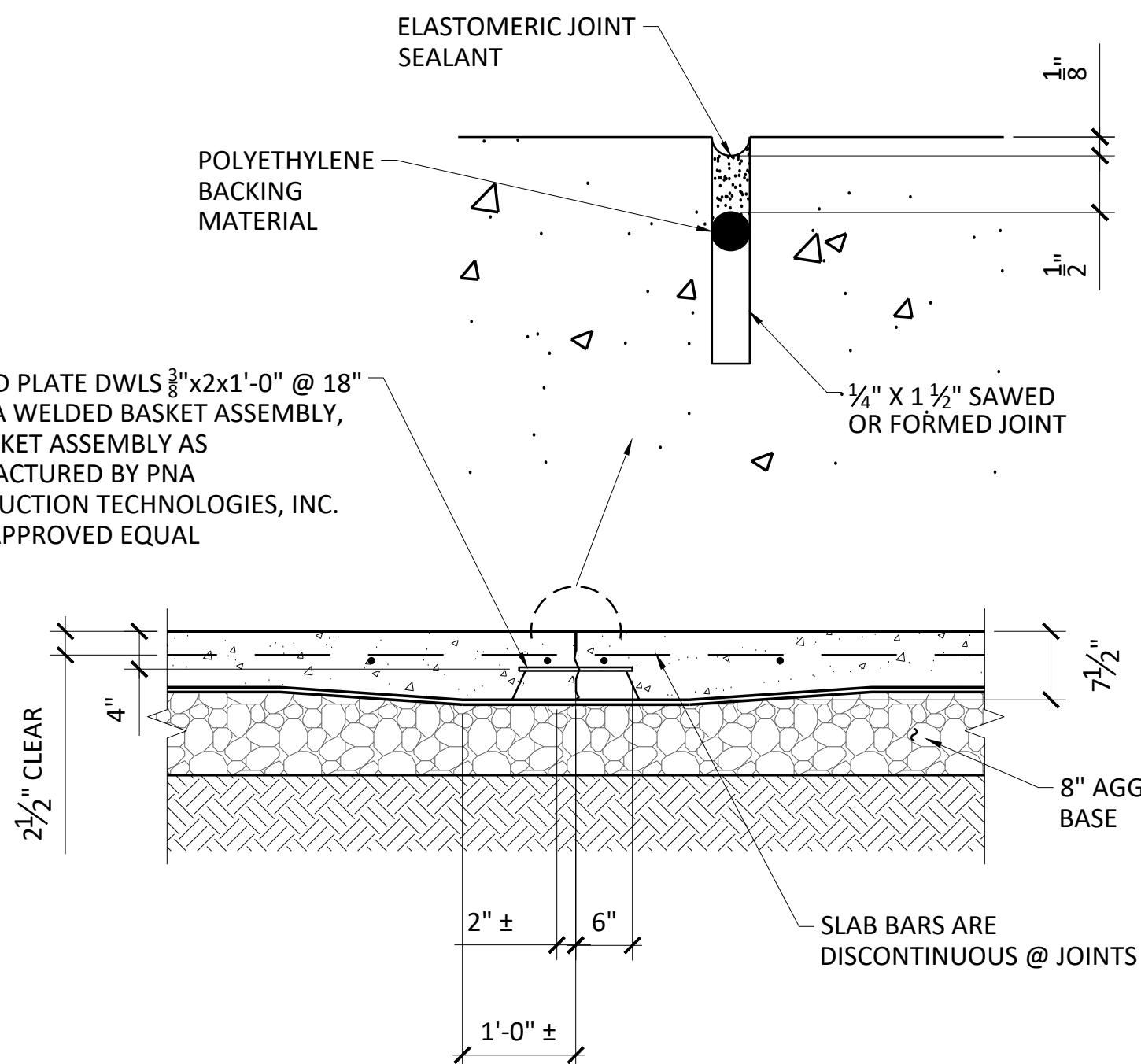
- DOWELS SHALL BE SMOOTH, ALIGNED, AND SUPPORTED SO THAT THEY WILL REMAIN PARALLEL IN BOTH THE HORIZONTAL AND VERTICAL PLANES DURING PLACING AND FINISHING OF THE CONCRETE. ALL DOWELS SHALL HAVE SAWN AND DEBURRED EDGES.
- ALL SUBGRADE RUTTING SHALL BE REPAIRED PRIOR TO SLAB PLACEMENT.



SECTION @ EDGE

5
S5
1"= 1'-0"

TAPERED PLATE DWLS 3/8"x2x1'-0" @ 18" O.C. IN A WELDED BASKET ASSEMBLY, PD3 BASKET ASSEMBLY AS MANUFACTURED BY PNA CONSTRUCTION TECHNOLOGIES, INC. OR AN APPROVED EQUAL

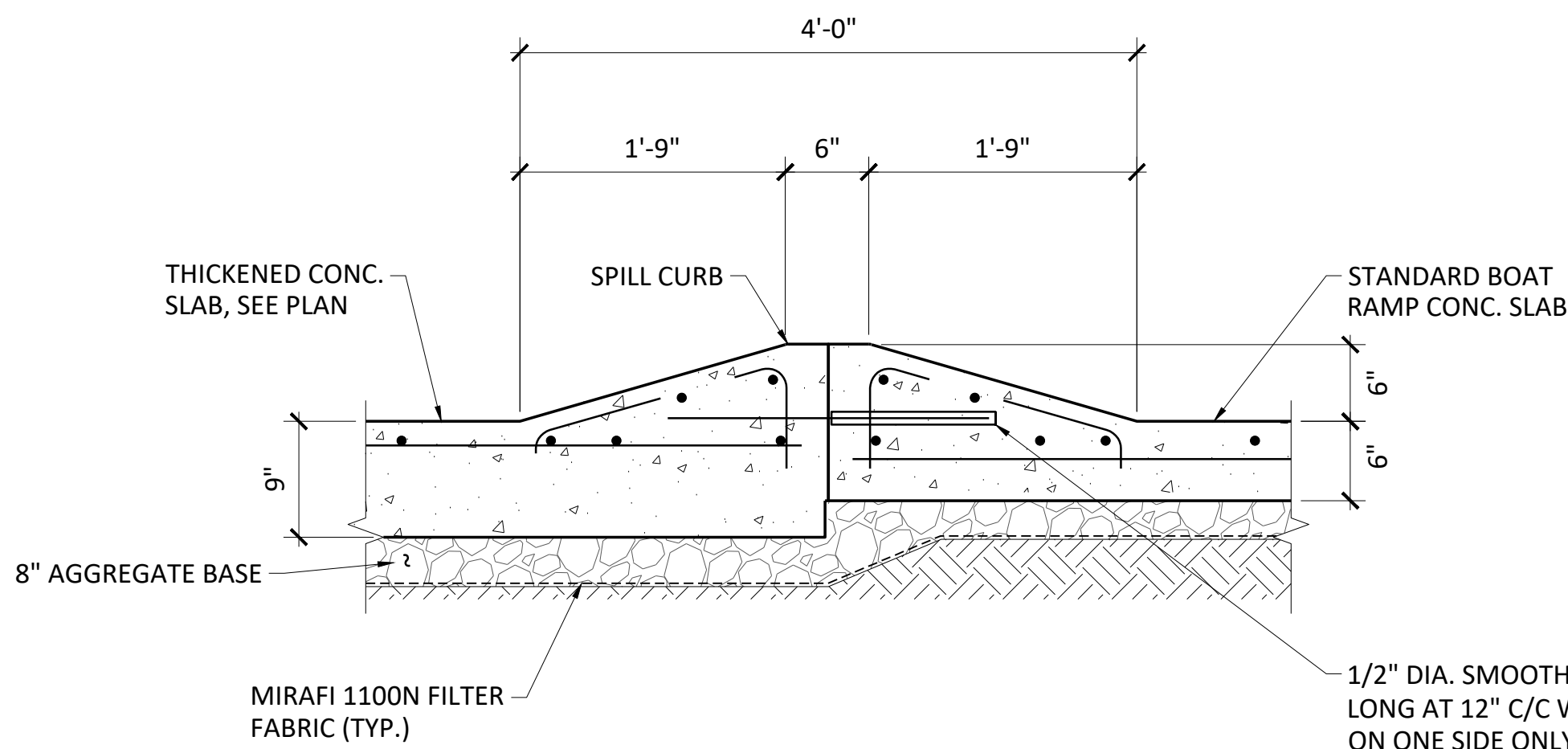


SLAB-ON-GRADE DOWELED JOINT (D.J.) DETAILS - 6" SLAB

2
S5
SCALE: 3/4"= 1'-0"

NOTES:

- SAWED JOINTS SHOULD BE CUT 4 TO 12 HOURS AFTER THE SLAB HAS BEEN IN AN AREA - 4 HOURS IN HOT WEATHER AND 12 HOURS IN COLD WEATHER.
- DOWELS SHALL BE SMOOTH, ALIGNED, AND SUPPORTED SO THAT THEY WILL REMAIN PARALLEL IN BOTH THE HORIZONTAL AND VERTICAL PLANES DURING PLACING AND FINISHING OF THE CONCRETE. ALL DOWELS SHALL HAVE SAWN AND DEBURRED EDGES.
- ALL SUBGRADE RUTTING SHALL BE REPAIRED PRIOR TO SLAB PLACEMENT.

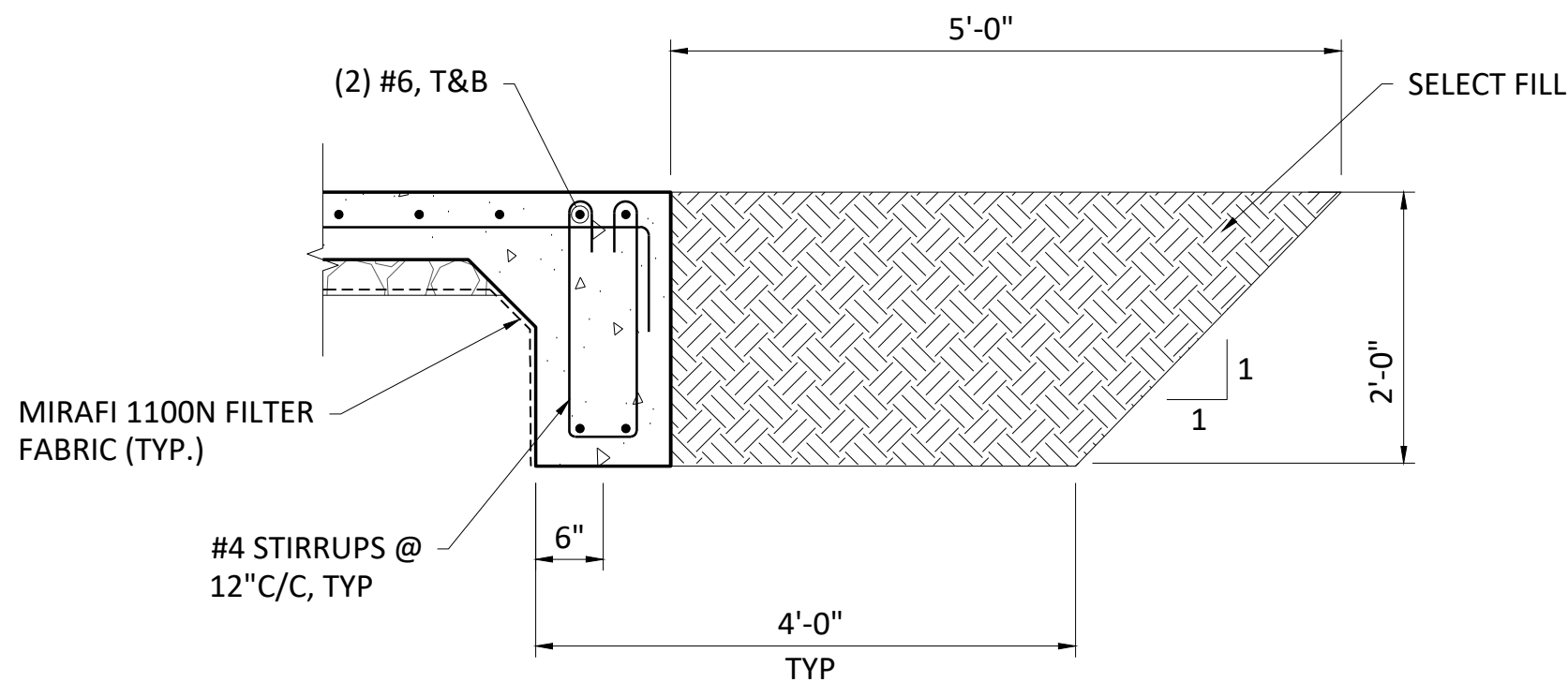


SECTION @ LONGITUDINAL CONSTRUCTION JOINT

6
S5
1"= 1'-0"

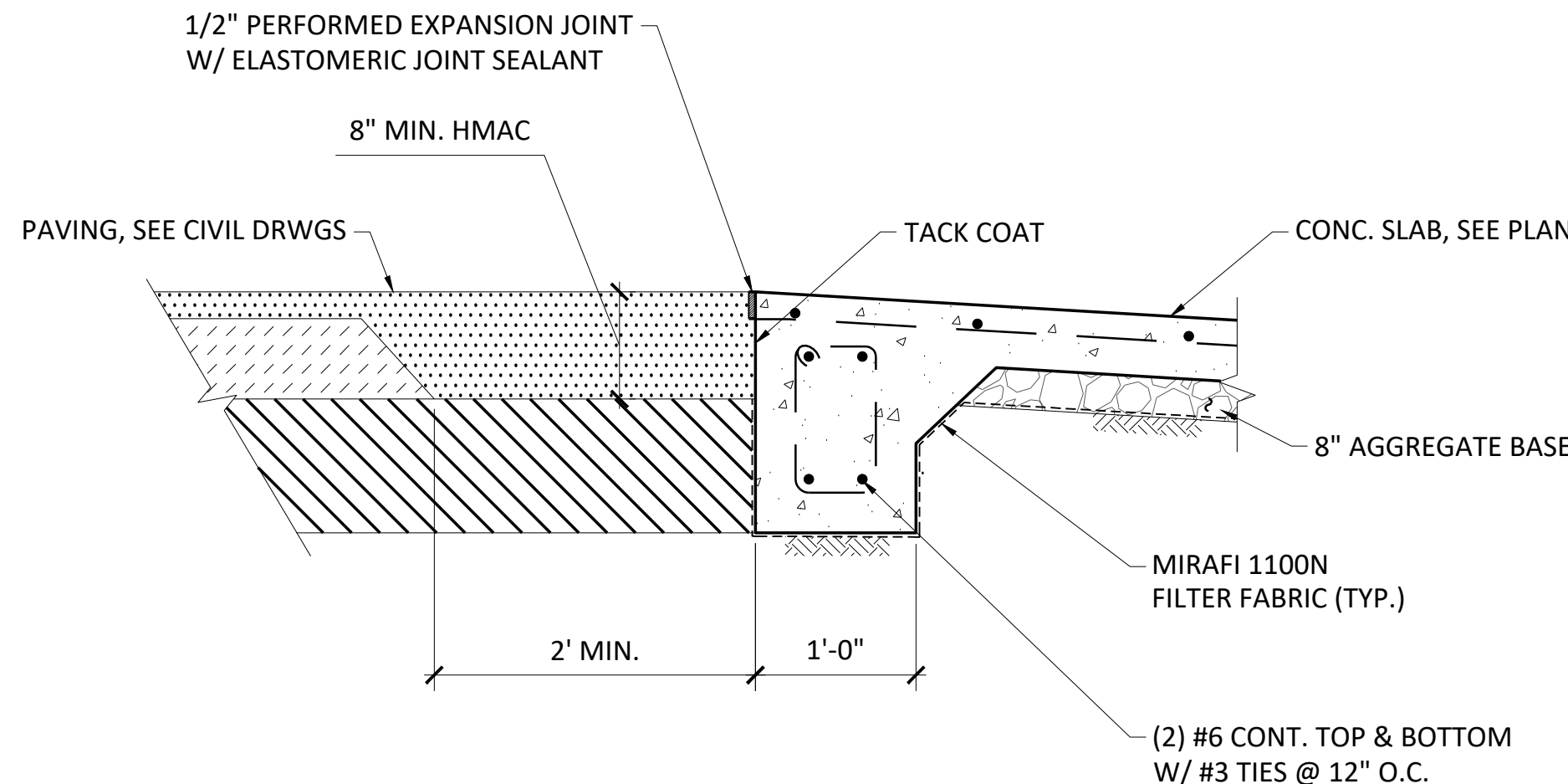
NOTE:

- SEE 3/S-13 FOR CURB REINFORCEMENT & DIMENSIONS



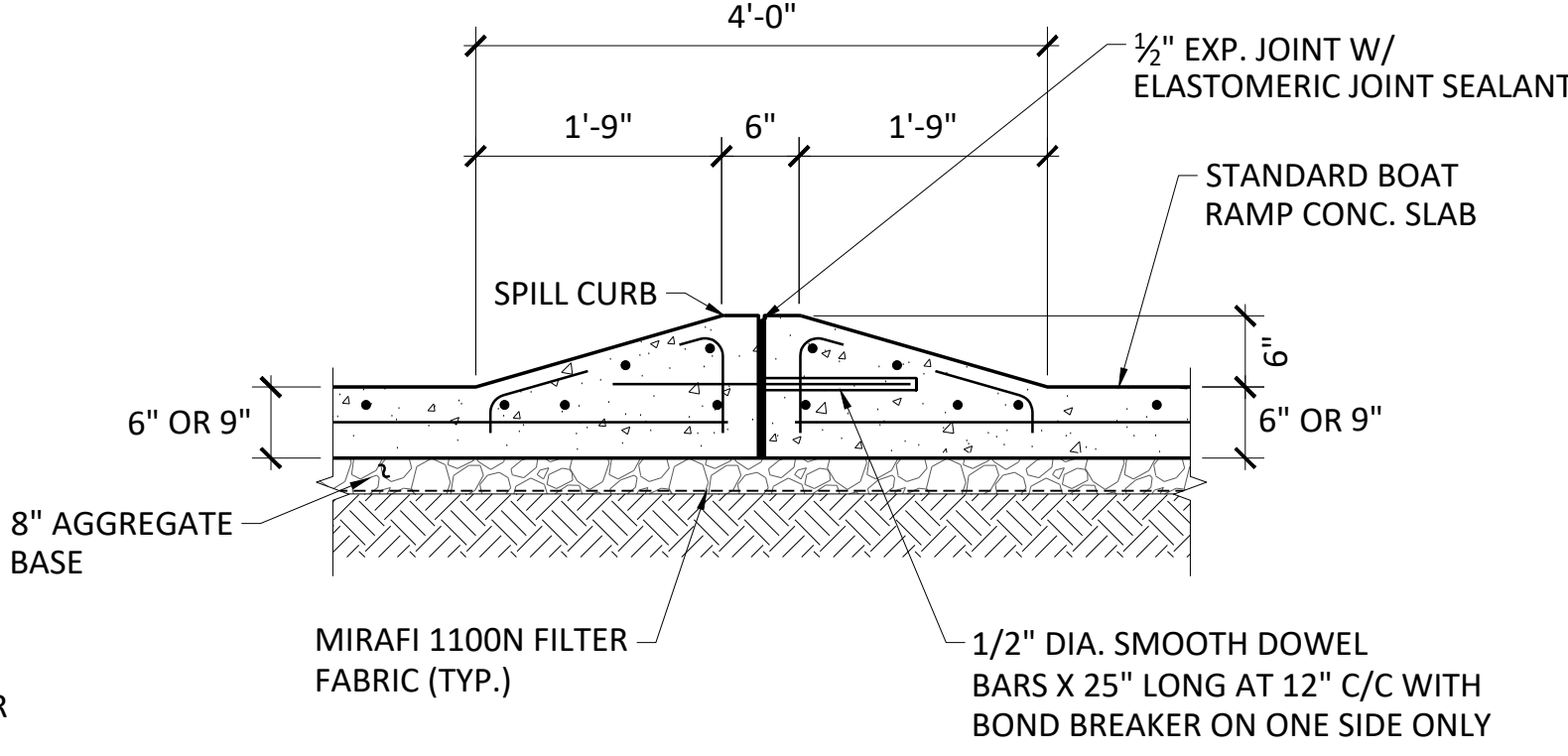
TOE GRADE BEAM DETAIL

3
S5
3/4"= 1'-0"



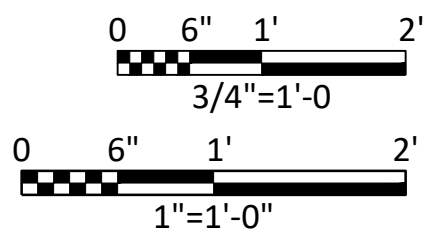
CONCRETE TO ASPHALT TIE-IN

4
S5
1"= 1'-0"



SECTION @ LONGITUDINAL EXPANSION JOINT

7
S5
1"= 1'-0"



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Texas Registered Engineering Firm F-2144

Shane Ray Torneo
7-16-2024

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Web: www.freezeandnichols.com

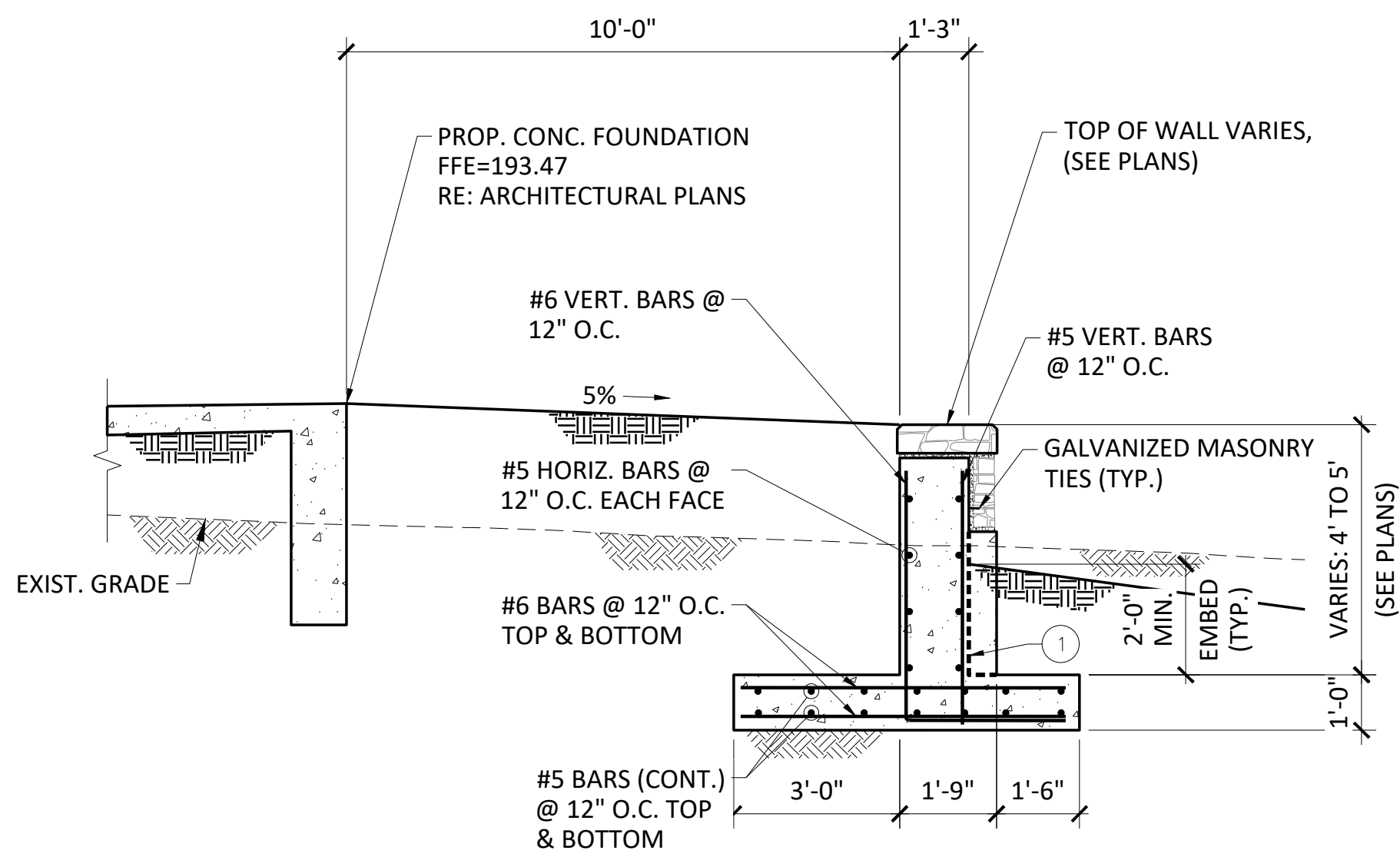
SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA
STRUCTURAL
BOAT RAMP DETAILS

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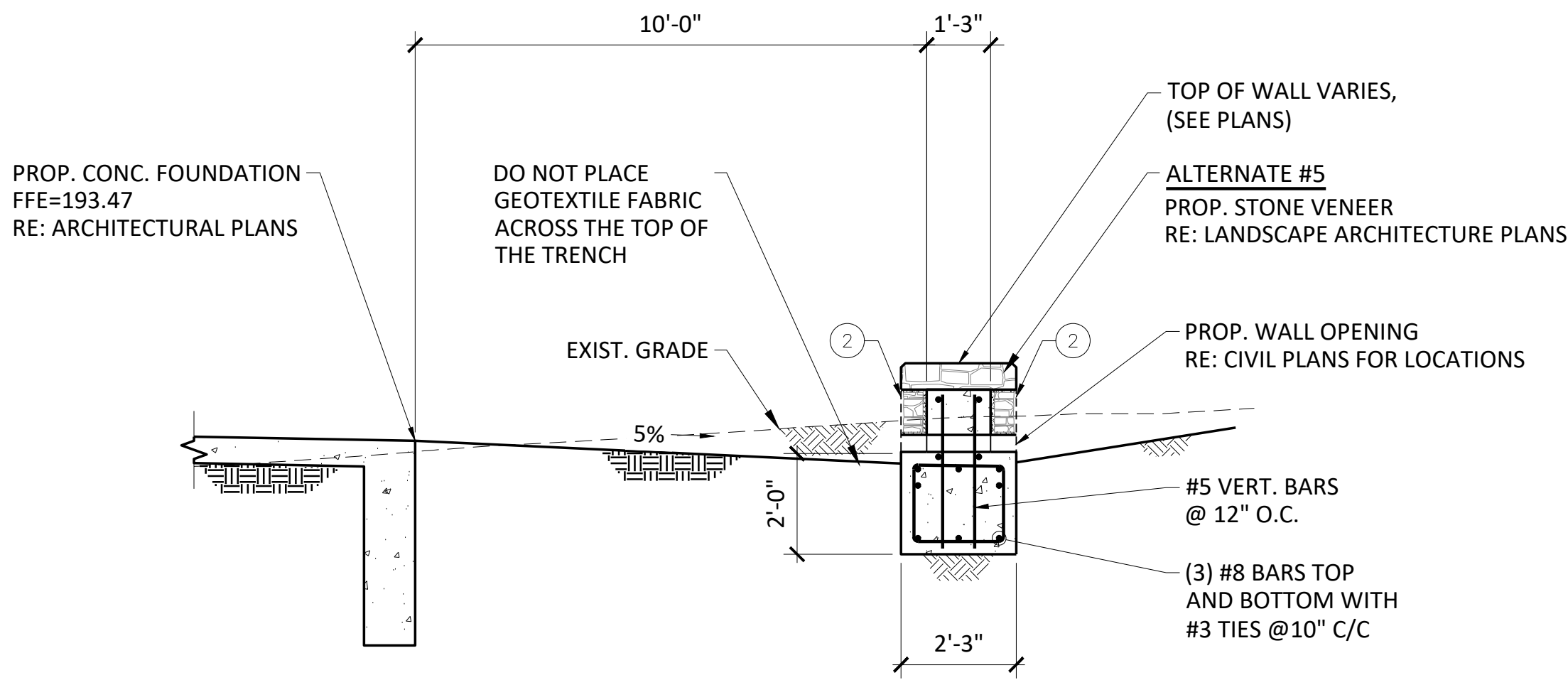
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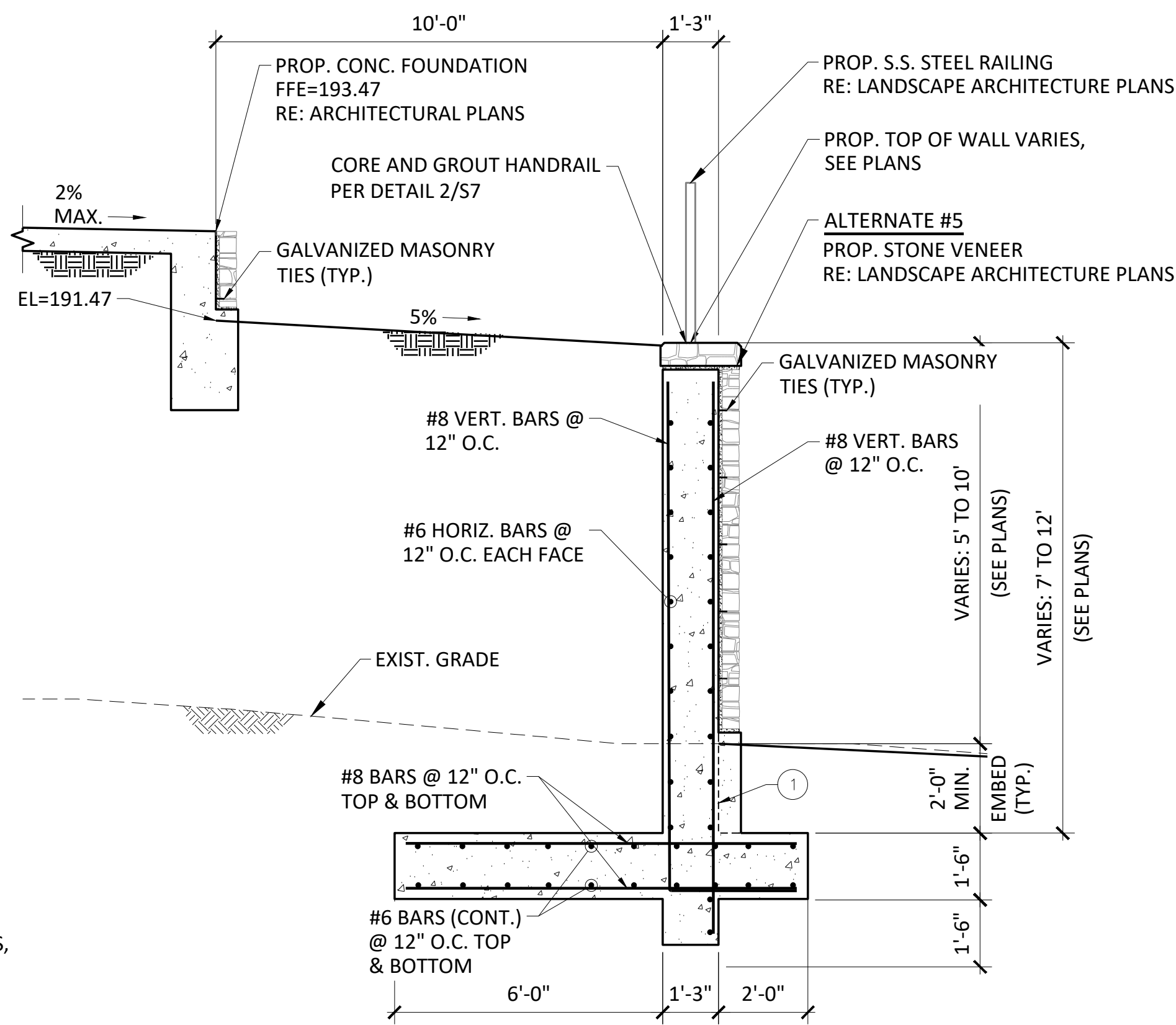
C RETAINING WALL SECTION
S7 SCALE: 3/8"= 1'-0"



F LOW WALL SECTION
S7 SCALE: 3/8"= 1'-0"

NOTES:

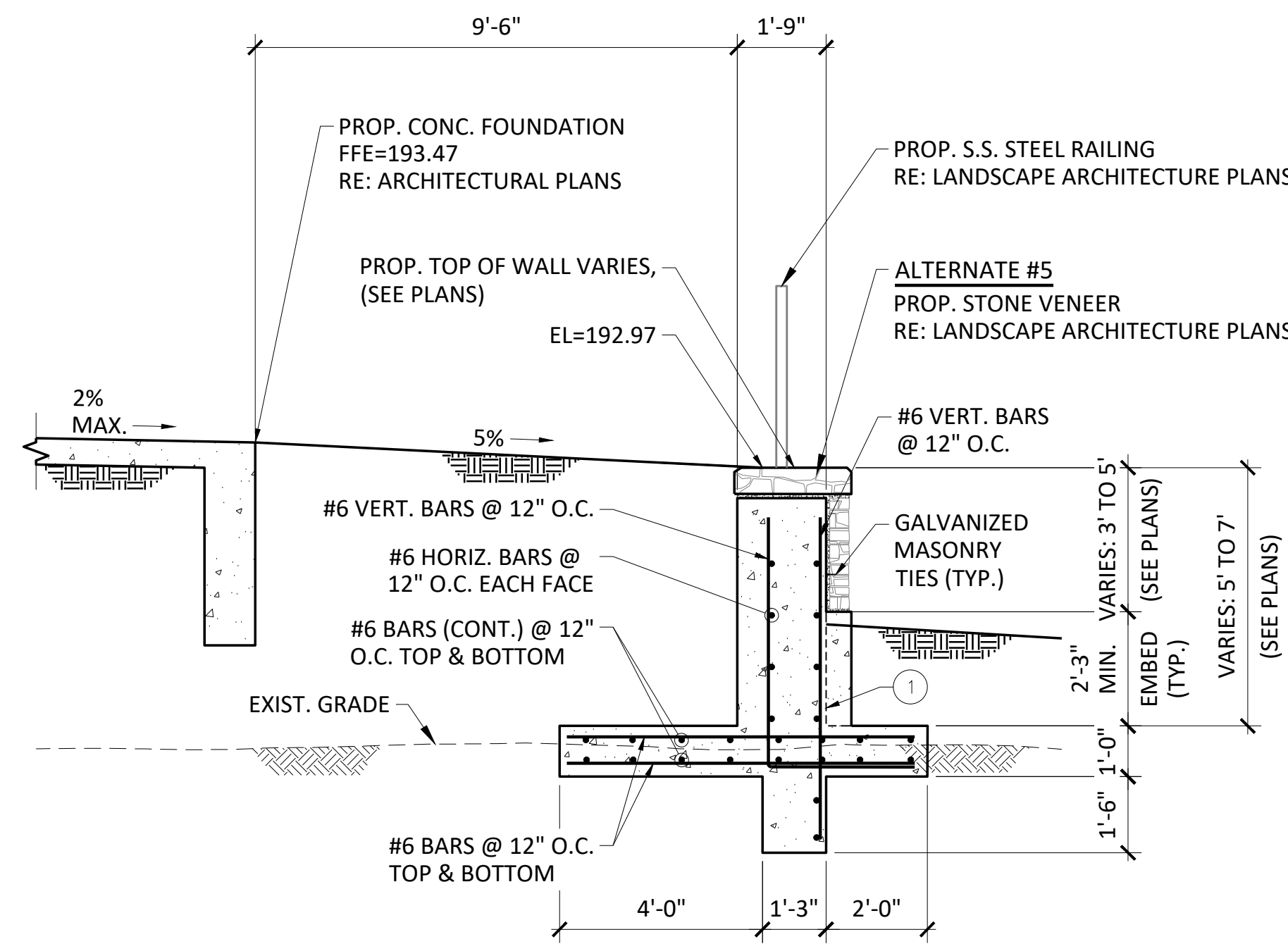
- CONTRACTOR SHALL MAKE FIELD MEASUREMENTS OF AS BUILT STEPS PRIOR TO FABRICATION OF HANDRAILS.
- STICK WELD ALL JOINTS (CONTINUOUS). GRIND WELDS SMOOTH.
- THE CLEAR SPACE BETWEEN HANDRAIL AND AN ADJACENT WALL OR GUARDRAIL SHALL BE 1 1/2" MINIMUM.
- SPLICES AND EXPANSION JOINTS SHALL UTILIZE INTERNAL SPLICE CONNECTORS WITH SET SCREWS TO ALLOW FOR RAIL EXPANSION OVER AMBIENT TEMPERATURE CHANGE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF RAILING, INCLUDING POST LOCATION OF EACH RUN.
- AFTER INSTALLATION, CONTRACTOR SHALL PRIME AND PAINT ALL HAND RAILS BASED ON THE OWNER'S PREFERRED COLOR SELECTION



D RETAINING WALL SECTION
S7 SCALE: 3/8"= 1'-0"

NOTE:

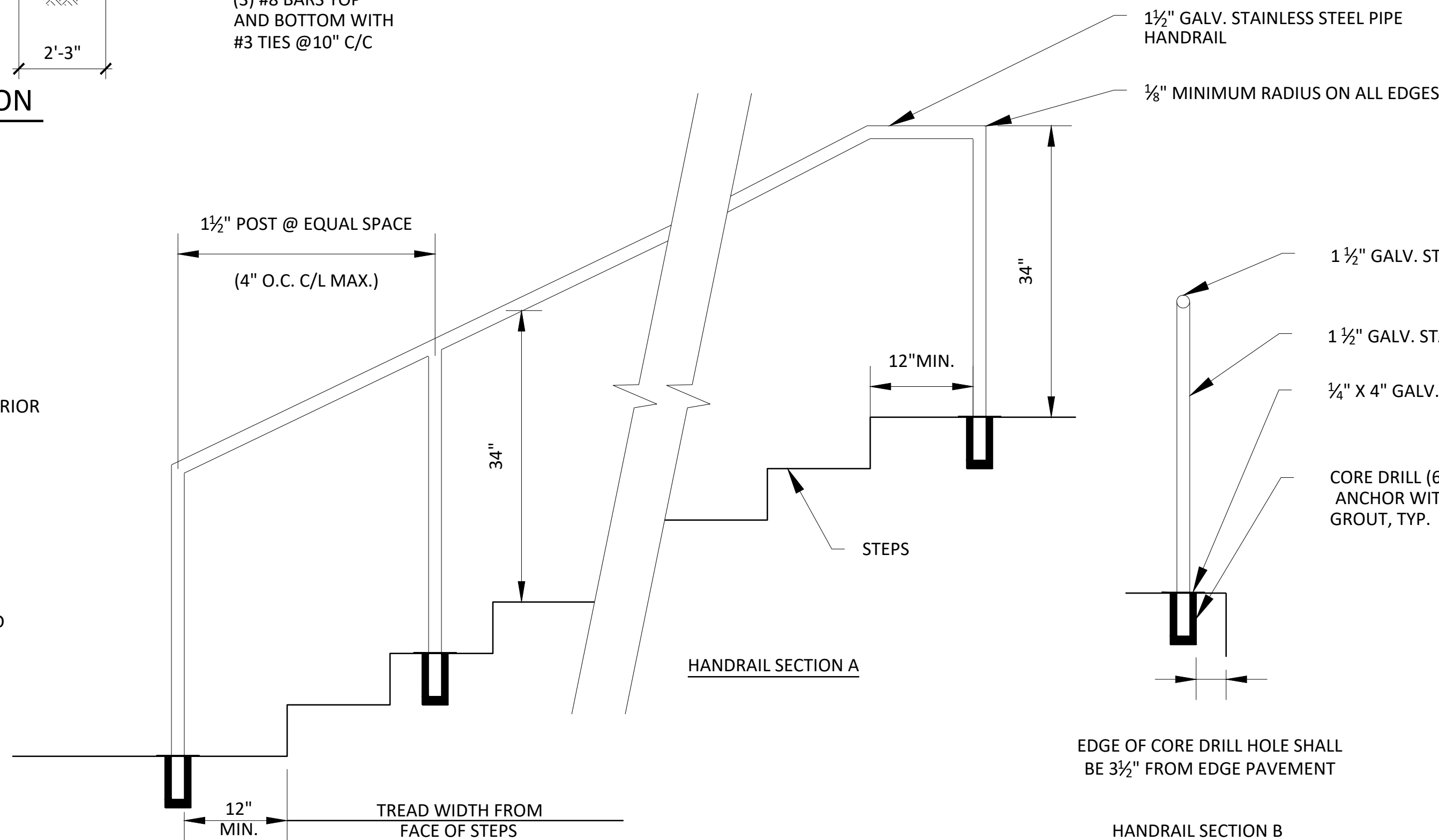
- SEE SHEET S9 FOR BACKFILL AND DRAIN DETAILS FOR ALL RETAINING WALLS.



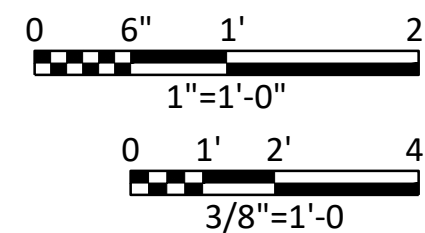
E RETAINING WALL SECTION
S7 SCALE: 3/8"= 1'-0"

NOTES BY SYMBOL "○":

- IF ALTERNATE #5 IS NOT SELECTED THEN OMIT LEDGE FOR STONE VENEER AND ADJUST CONCRETE WALL TOP ELEVATION AS REQUIRED. ELEVATIONS ON PLAN ARE SHOWN TO FINAL TOP OF WALL ELEVATION.
- IF ALTERNATE #5 IS NOT SELECTED THEN COMPLETE W/ CONCRETE AS SHOWN.



2 HANDRAIL
S7 1"=1'-0"



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Texas Registered Engineering Firm F-2144

7-16-2024

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA
STRUCTURAL

CONCRETE RETAINING WALL DETAILS

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S7

SEQ.

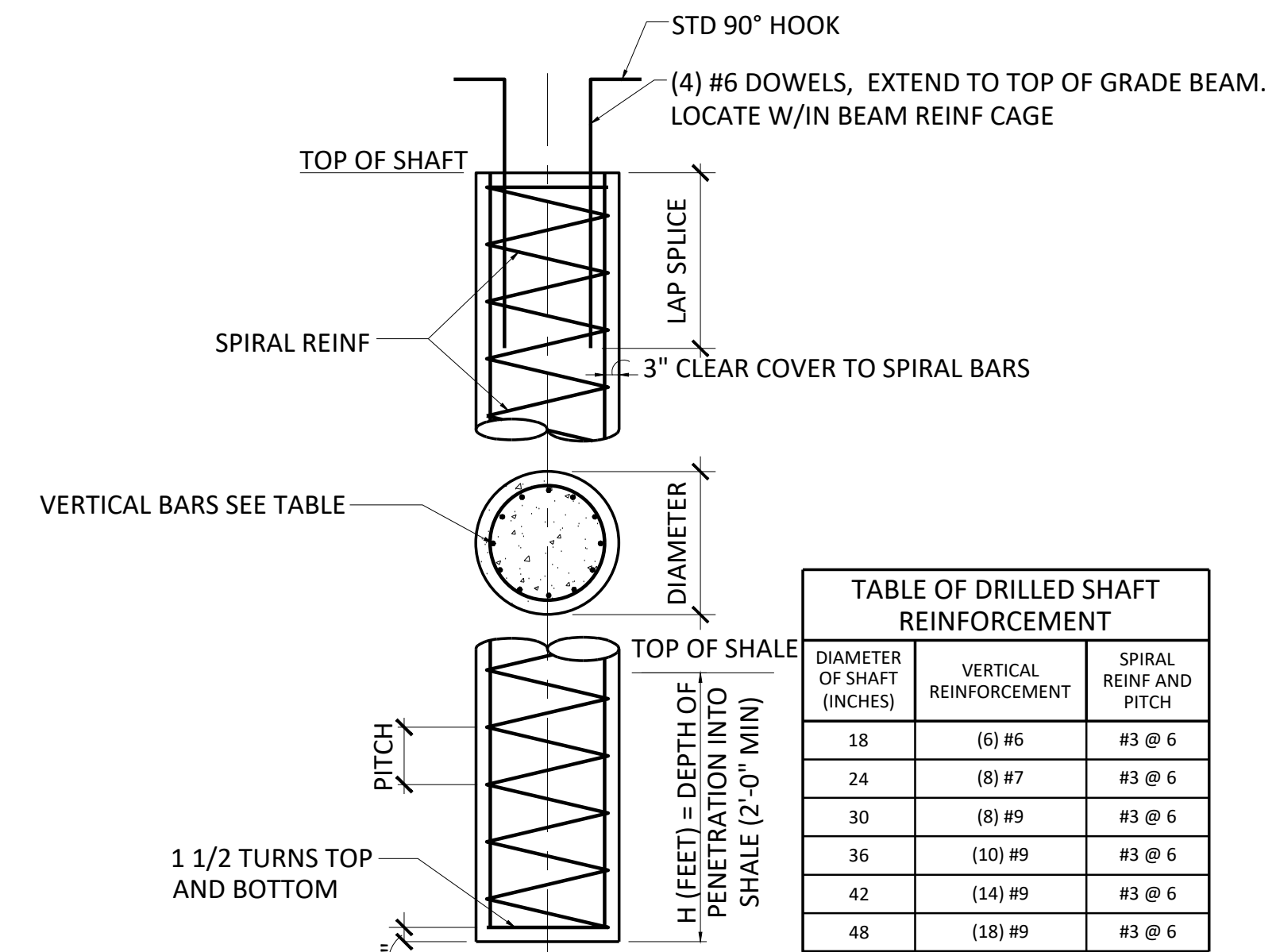
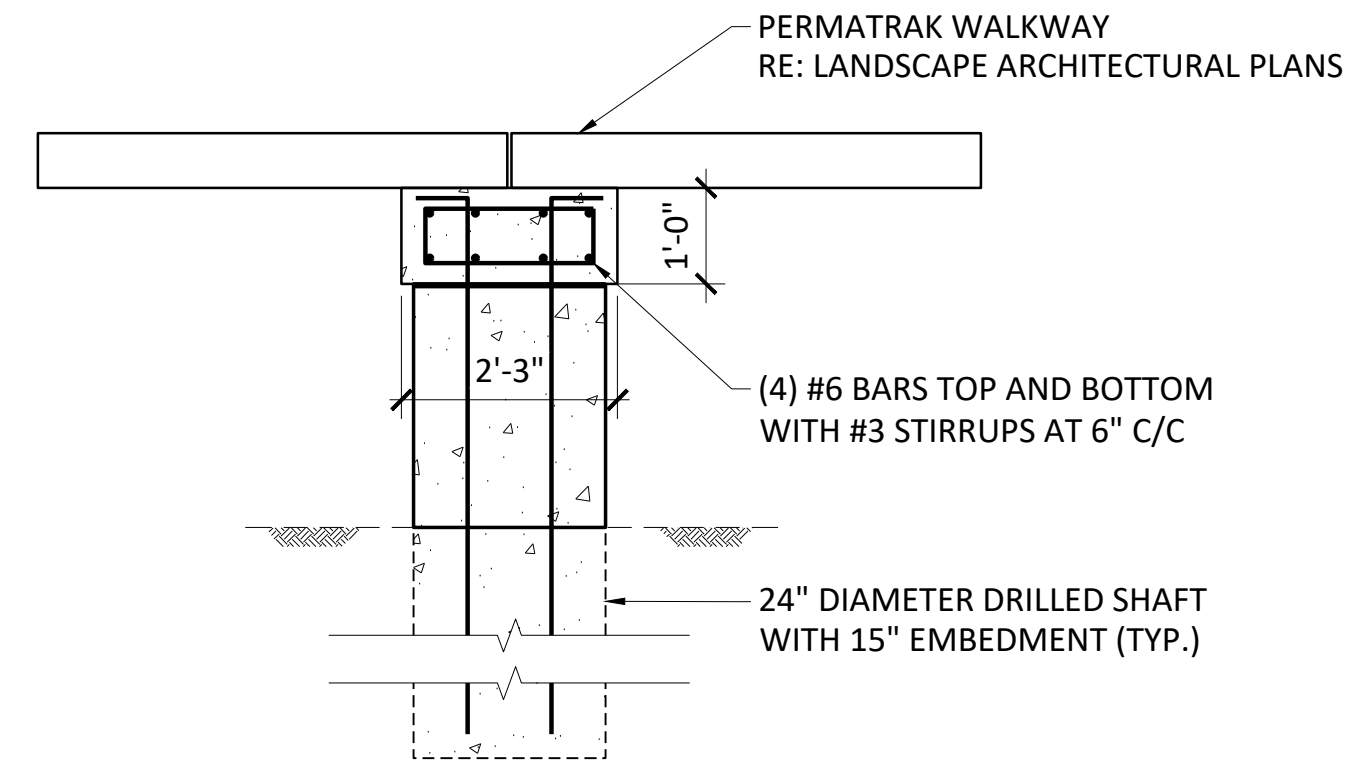
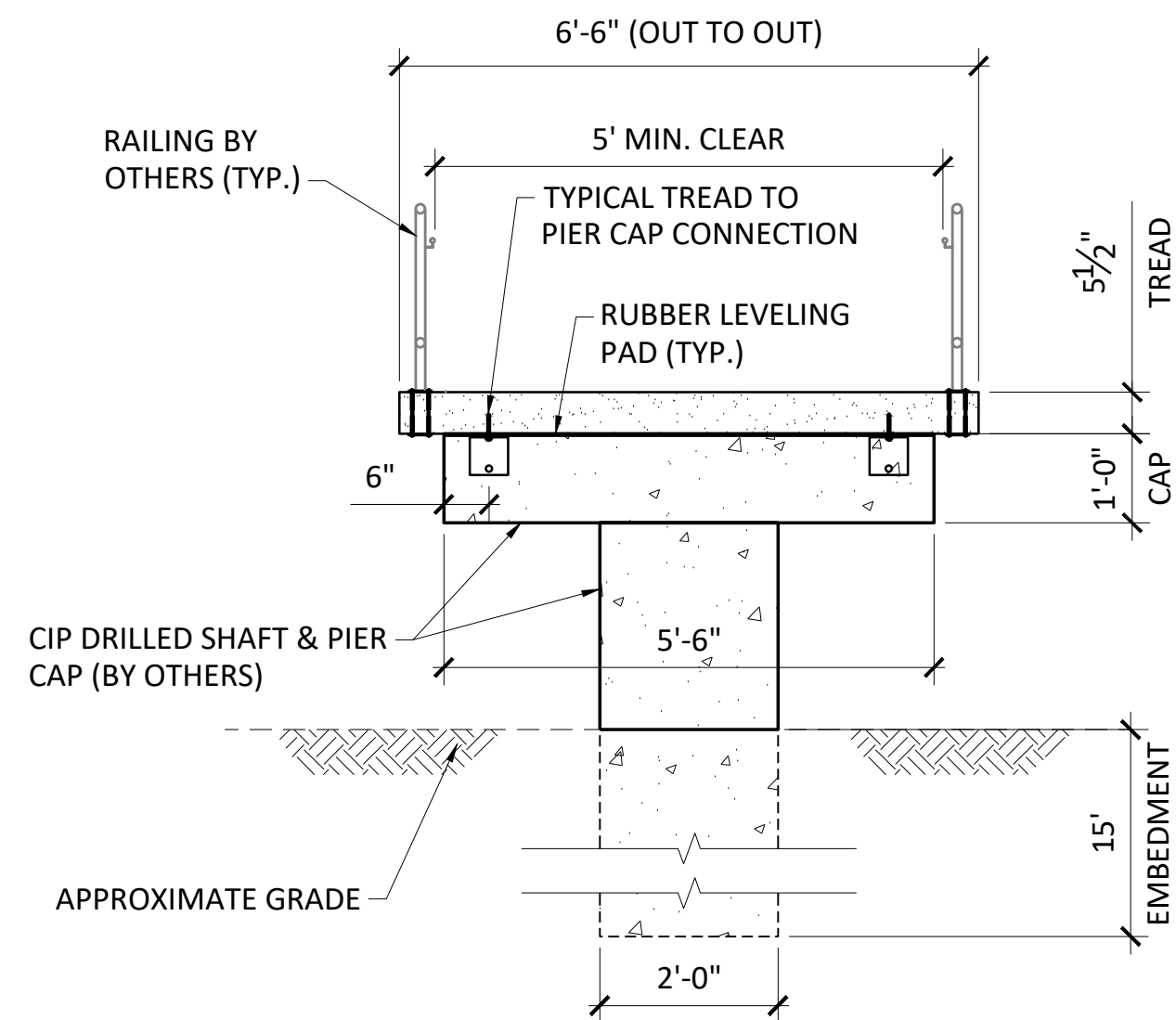
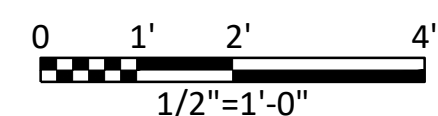


TABLE OF DRILLED SHAFT REINFORCEMENT		
DIAMETER OF SHAFT (INCHES)	VERTICAL REINFORCEMENT	SPIRAL REINF AND PITCH
18	(6) #6	#3 @ 6
24	(8) #7	#3 @ 6
30	(8) #9	#3 @ 6
36	(10) #9	#3 @ 6
42	(14) #9	#3 @ 6
48	(18) #9	#3 @ 6



7-16-2024



SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

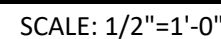
STRUCTURAL

BID ALTERNATE #2


STRUCTURAL DETAILS

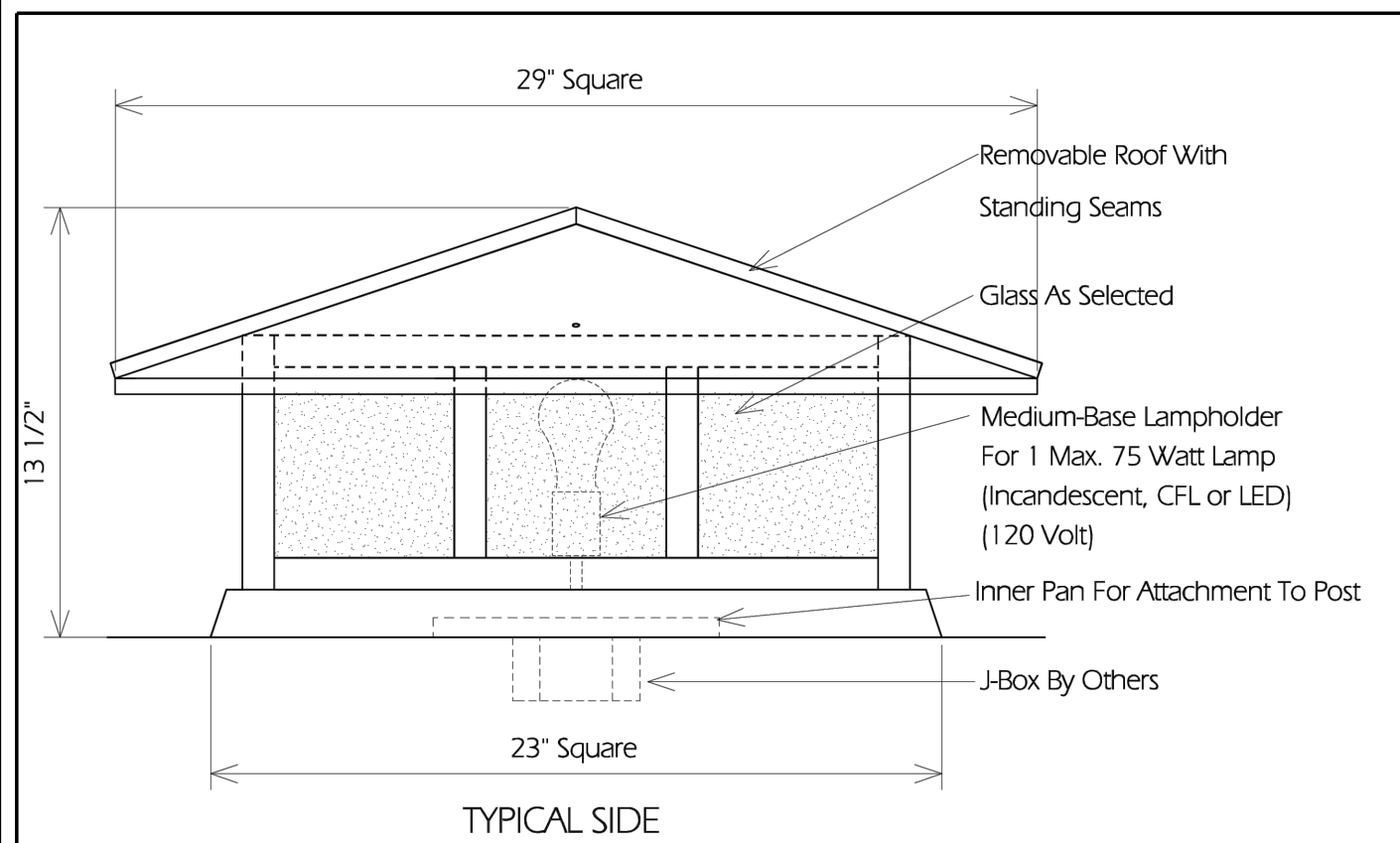
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FILE NAME				ST-SRA-DT-WALL(01).dwg

DATE:	DATE	TIME
FILE:	DOCUMENT	NAME



1. SELECT FILL SHALL BE USED FOR BACKFILL AGAINST WALLS. SELECT FILL (CLASS 4 EARTH FILL) SHALL CONSIST OF MATERIALS WHICH ARE A VERY SANDY CLAY, CLAYEY SAND, OR CRUSHED LIMESTONE WHICH HAVE A LIQUID LIMIT LESS THAN OR EQUAL TO 35 AND A PLASTICITY INDEX BETWEEN A MINIMUM OF 4 AND A MAXIMUM OF 15, AND WHICH ARE FREE OF ORGANIC MATERIALS. PLACE IN 8" LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR) AND WITHIN 2 PERCENT BELOW TO 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT.
2. AT AREAS NOT PAVED, BACKFILL SHALL STOP 2'-0" BELOW FINAL GRADE. THE UPPER 2'-0" SHALL BE BACKFILLED WITH ON-SITE CLAYS OR CLASS 2 EARTH FILL. EXTEND CLAY CAP A MINIMUM OF 3'-0" BEYOND LIMITS OF SELECT FILL. PLACE CLAY IN 8" LOOSE LIFTS AND COMPACT TO BETWEEN 95 AND 100 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR) AND AT OPTIMUM MOISTURE CONTENT TO 5 PERCENT ABOVE OPTIMUM MOISTURE CONTENT.
3. DO NOT BACKFILL AGAINST ANY WALL UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH OR 7 DAYS, WHICHEVER IS LONGER. COMPACTION WITHIN 5'-0" OF WALLS SHALL BE ACHIEVED WITH HAND COMPACTION EQUIPMENT. OVER COMPACTION IS NOT ALLOWED.
4. IN-PLACE FIELD DENSITY TESTS SHALL BE CONDUCTED AT A RATE OF 1 TEST PER 3000 SQUARE FEET FOR EACH LIFT, WITH A MINIMUM OF 2 TESTS PER LIFT. EACH LIFT SHALL BE COMPACTED, TESTED AND APPROVED BEFORE ANOTHER LIFT IS PLACED. ANY AREA FOUND NOT TO COMPLY WITH COMPACTION REQUIREMENTS SHALL BE REWORKED AND RETESTED. THE SUBGRADE MOISTURE CONTENT AND DENSITY SHALL BE MAINTAINED DURING CONSTRUCTION.
5. INCORPORATE EXPANSION JOINTS AT 60' SPACING (MAXIMUM). WALL REINFORCING SUBMITTAL WILL INCLUDE EXPANSION JOINT LOCATIONS FOR ENGINEER REVIEW AND APPROVAL.
6. LOCATIONS OF CONSTRUCTION JOINTS MUST BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.

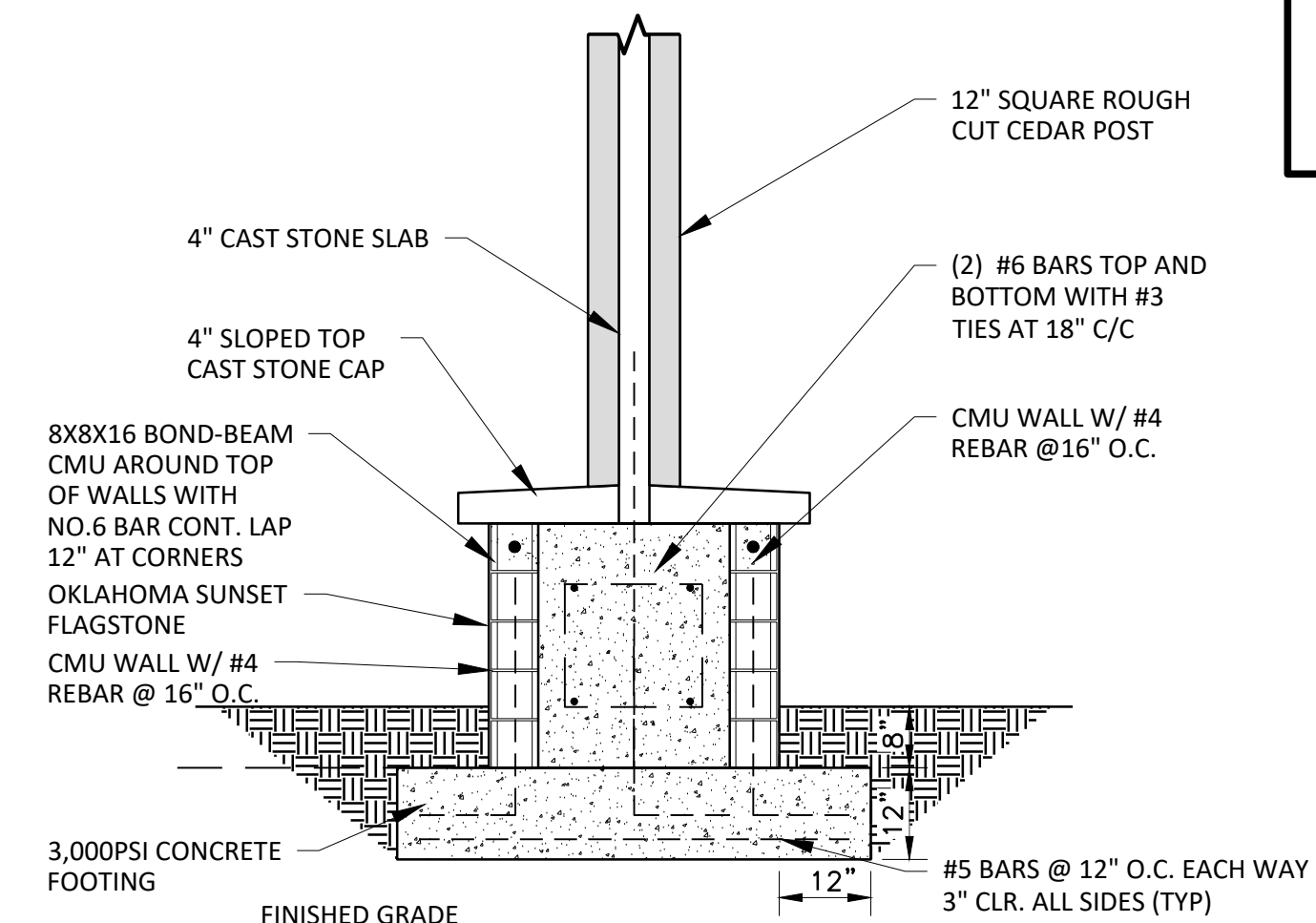
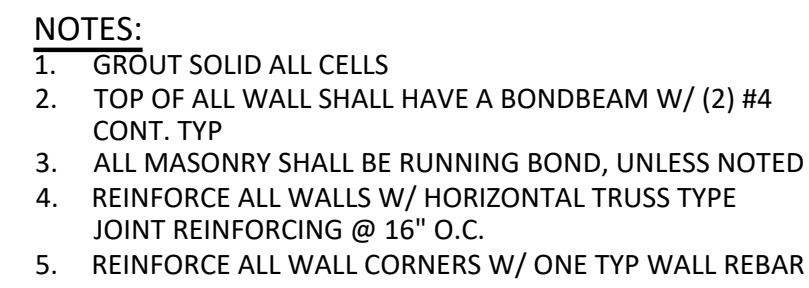
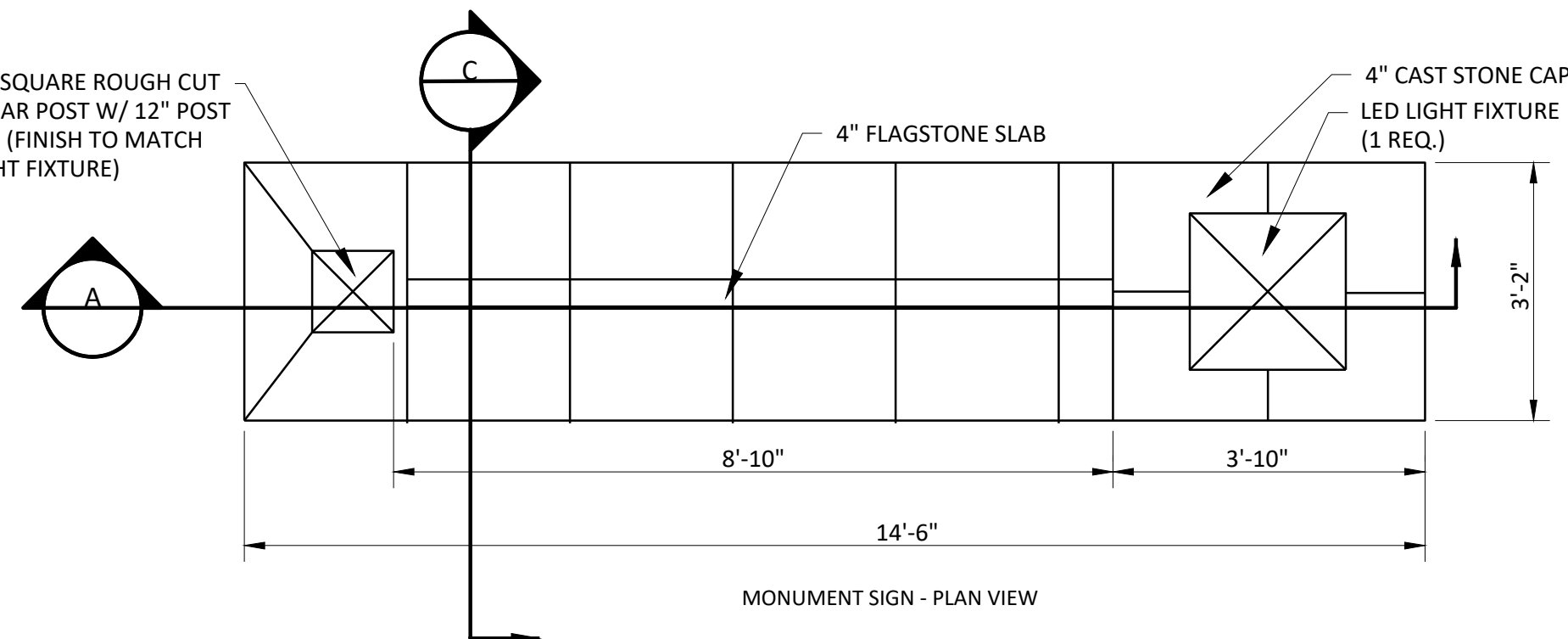
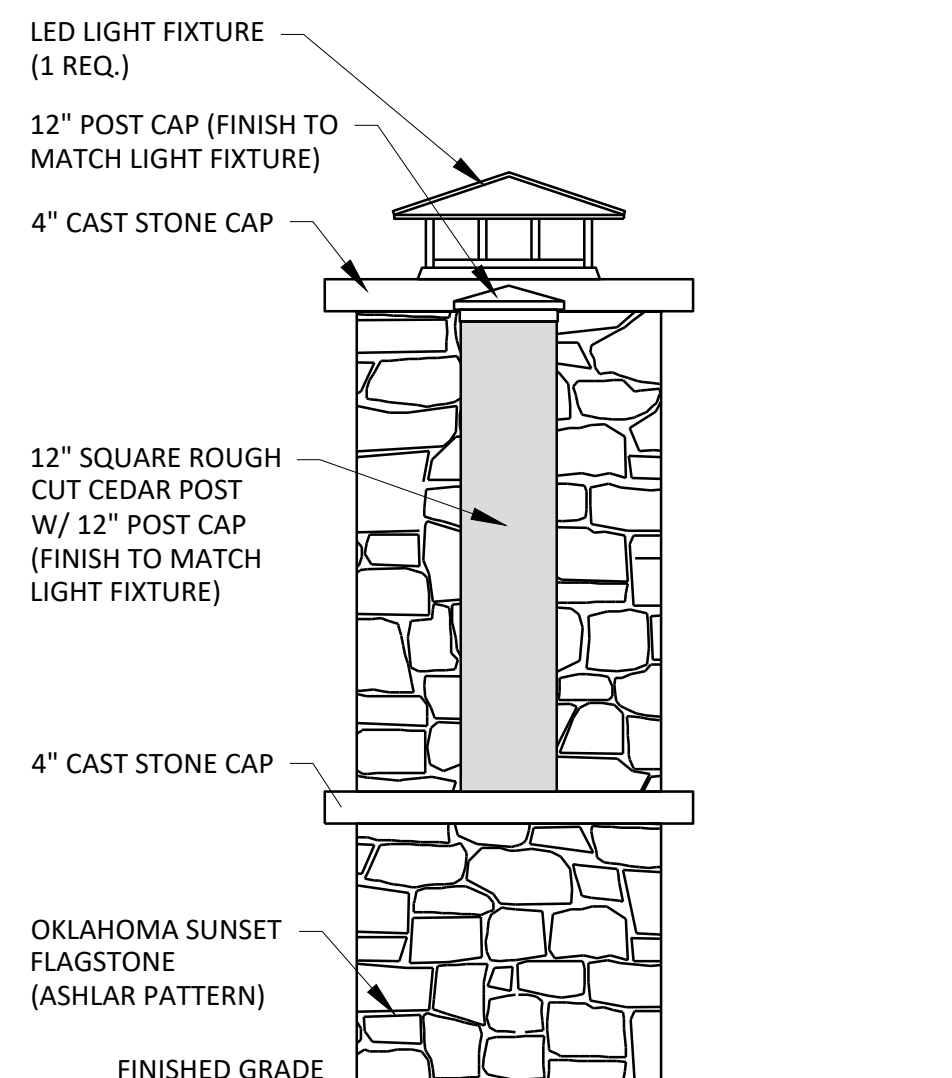
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<h3 style="margin: 0;">RW 2</h3>				
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©TxDOT <u>March 2010</u>	CONT SECT JOB HIGHWAY			
REVISIONS				
04-11: Added Note 2.	DIST	COUNTRY		SHEET NO.



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Fine Lighting & Decorative Metal Work
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POST LANTERN CPL24

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1 POST LANTERN
L1 NTS

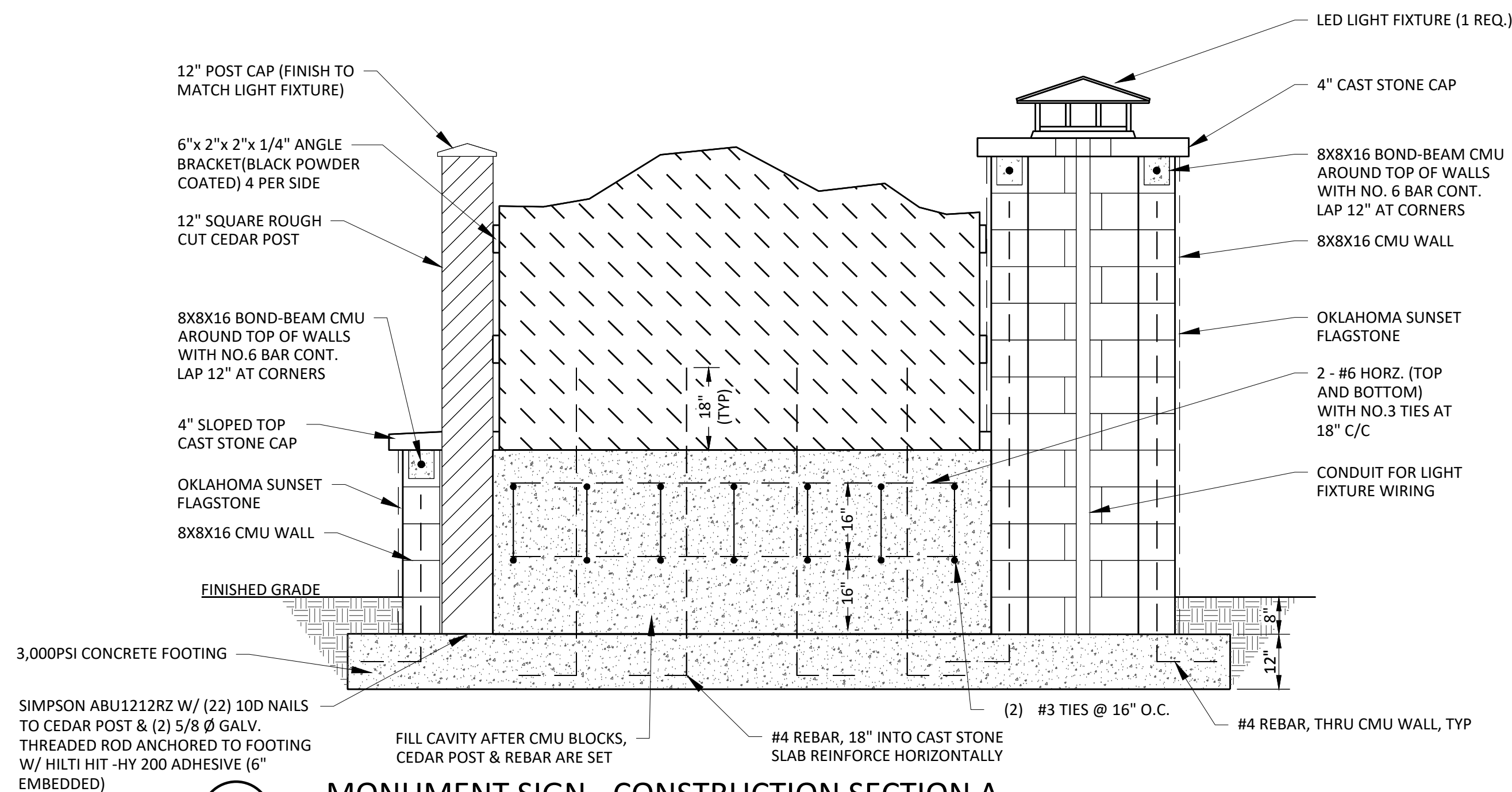
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3
L1

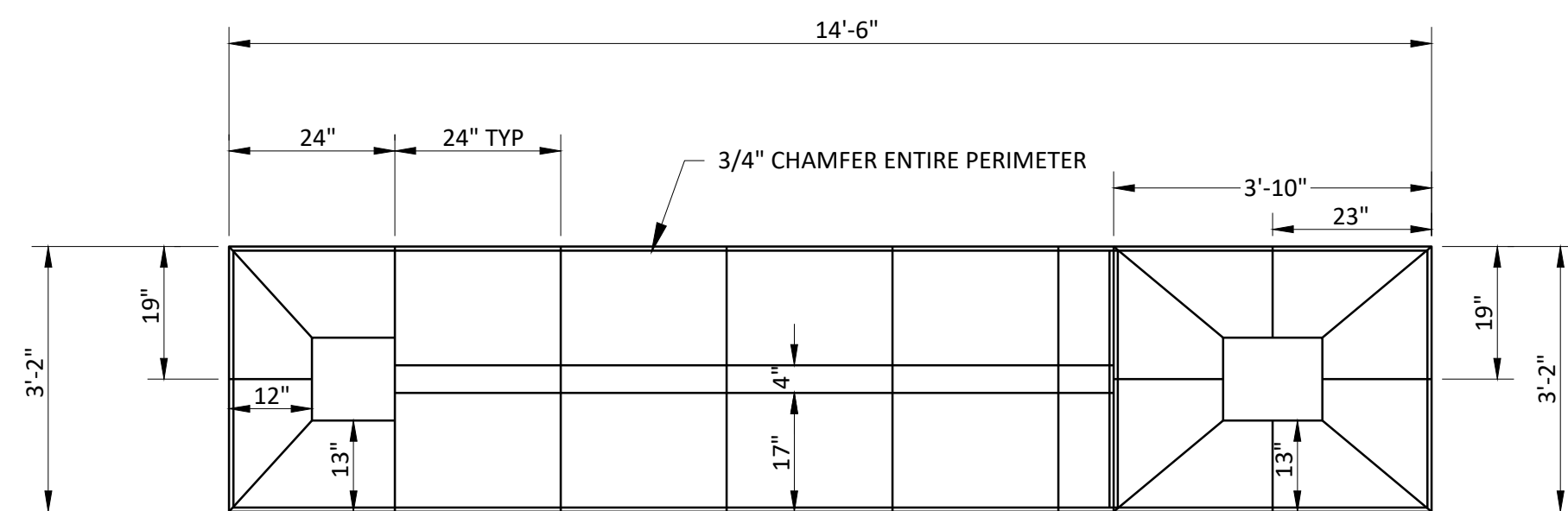
MONUMENT SIGN - PLAN VIEW

NTS

4 MONUMENT SIGN - CONSTRUCTION SECTION C
L1 NTS



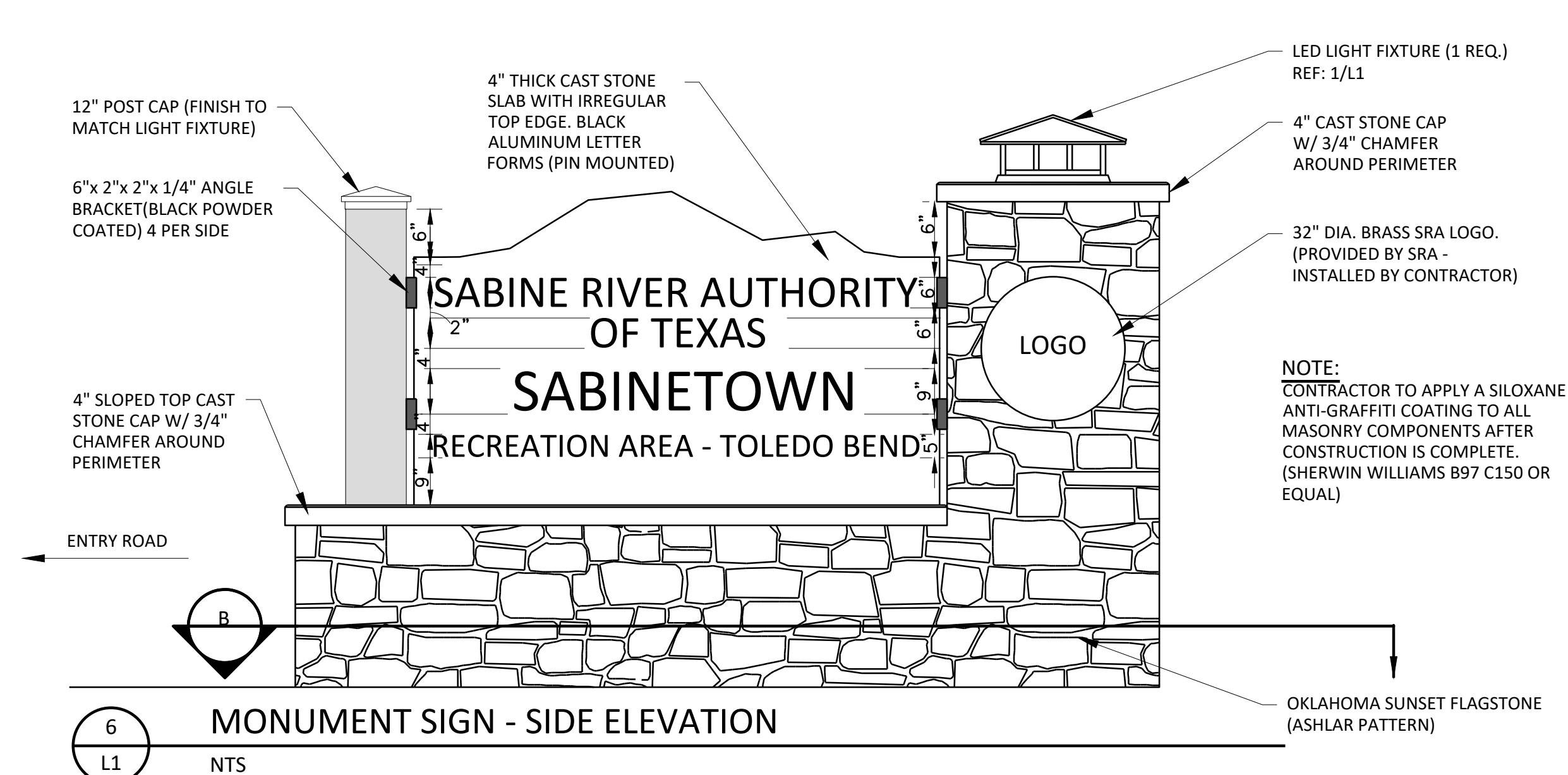
5 MONUMENT SIGN - CONSTRUCTION SECTION A
L1 NTS



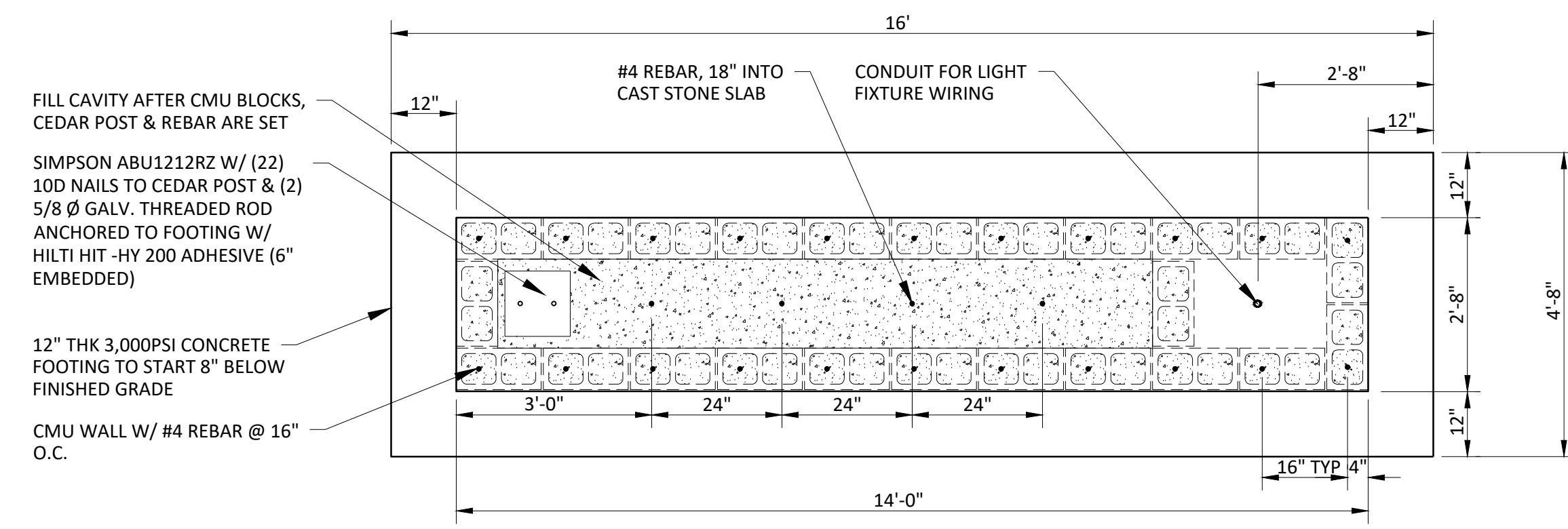
7
L1

MONUMENT SIGN - CAP STONE LAYOUT

NTS



6 MONUMENT SIGN - SIDE ELEVATION
L1 NTS



8 MONUMENT SIGN - CONSTRUCTION SECTION B
L1 NTS

ISSUED FOR BID



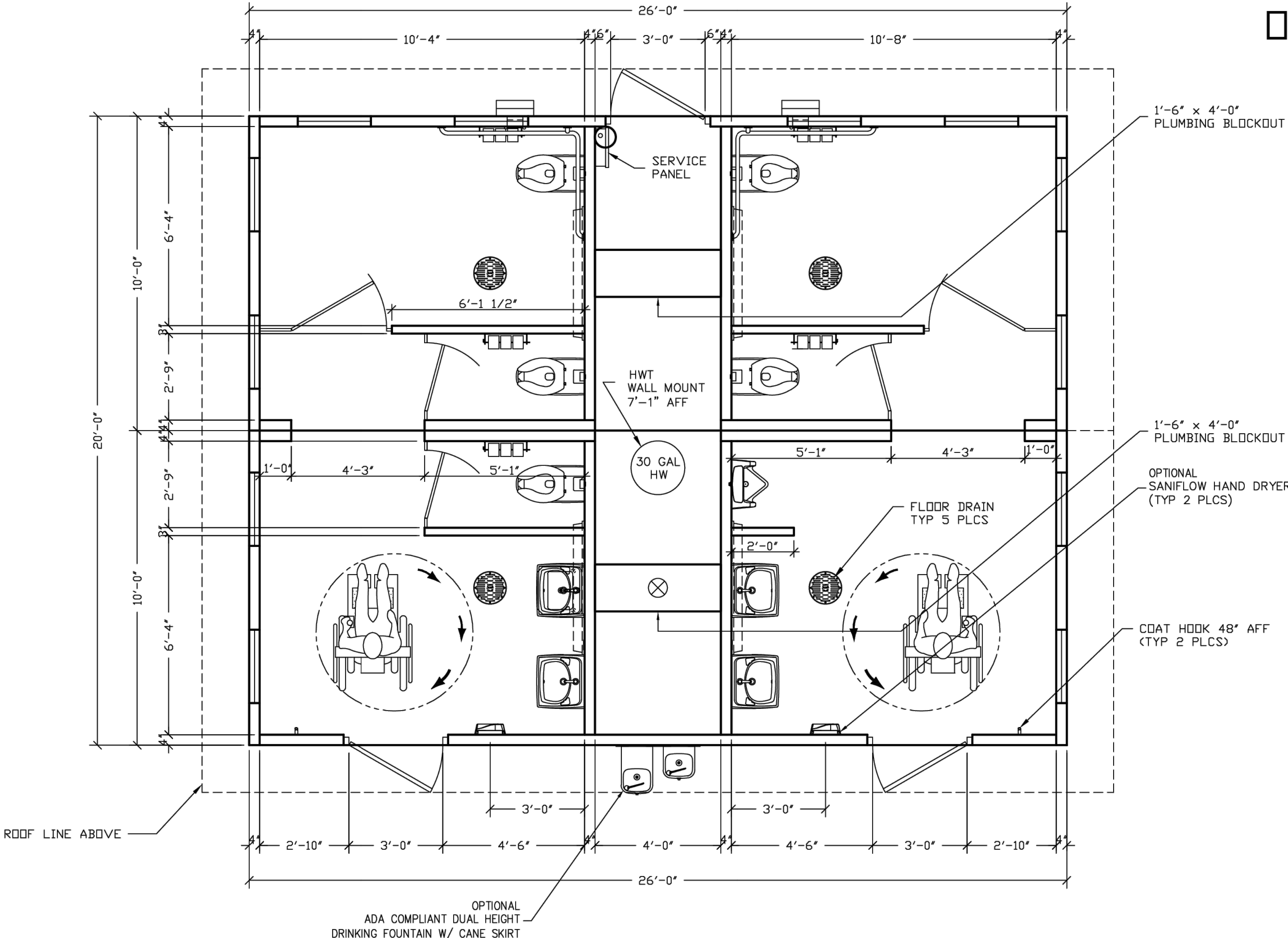
SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

LANDSCAPE ARCHITECTURE

PARK SIGN

NO.	ISSUE		BY	DATE	F&M JOB NO.
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				DATE	07/15/2024
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				DRAWN	JMST
				CHECKED	JHH
				APPROVED	
<p>VERIFY SCALE: Bar Scale is one inch on original drawing, if not one hinch on this sheet, adjust scale.</p>					
<p>0 L-01-DTL BASE.dwg</p>					

FOR
REFERENCE
ONLY



NOTES: 1. SEE DRAWING TA-28 FOR SIZE AND LOCATION OF FLOOR BLOCKOUTS

3808 N. Sullivan Bldg. #7 Spokane, WA 99216



Precast Products

901 N. Highway 77 Hillsboro, TX 76645

PROJECT TITLE:

TAUS
CXT STANDARD BUILDING

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REV.	DESCRIPTION	APPROVAL	DATE	
SCALE	$1/4''=1'-0''$	DATE	04-30-1	
DRAWN		FILE NO.	PD-TA03	
CHECKED		PI OT	AR	

FLOOR PLAN

DWG NO.	SHEET	REV.
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TA 03	/	
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Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



FREESE & NICHOLS
8300 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
Web - www.freese.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

LANDSCAPE ARCHITECTURE

RESTROOM 1

UNION JOB NO.

DATE _____

11

--	--

1001

11

11

11

ISSUE

SH

SE

1 if not one hinch on this sheet, adjust scale.

L2

ISSUED FOR BID

RESTROOM

NTS

CXT RESTROOM INTERIOR FINISH

- MARINE PACKAGE (EXCLUDING FIBERGLASS DOORS AND FRAMES)(PER SECTION)
- EXTERIOR FROSTPROOF HOSE BIB WITH BOX (EACH)

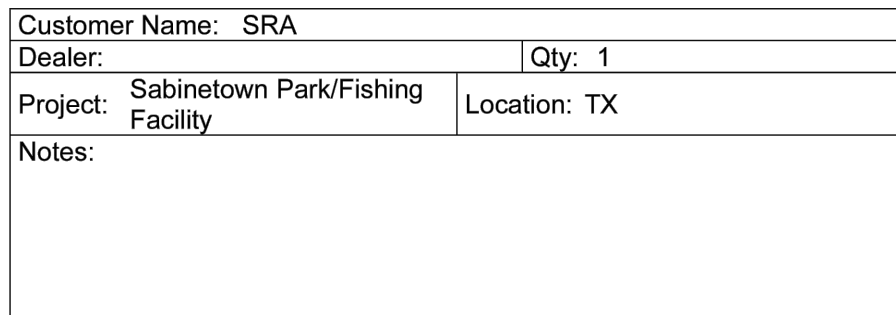
CXT RESTROOM EXTERIOR FINISH:

- MARINE PACKAGE (EXCLUDING FIBERGLASS DOORS AND FRAMES)(PER SECTION)
- EXTERIOR FROSTPROOF HOSE BIB WITH BOX (EACH)

SALES REP:
ROBERT VEALS - LB FOSTER
M - 254.404.5147
RVEALS@LBFOSTER.COM

ACAD Rel: 24.2s (LMS Tech)
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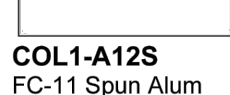
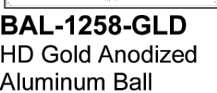


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CAFP_010819_1pg



7



1-Piece



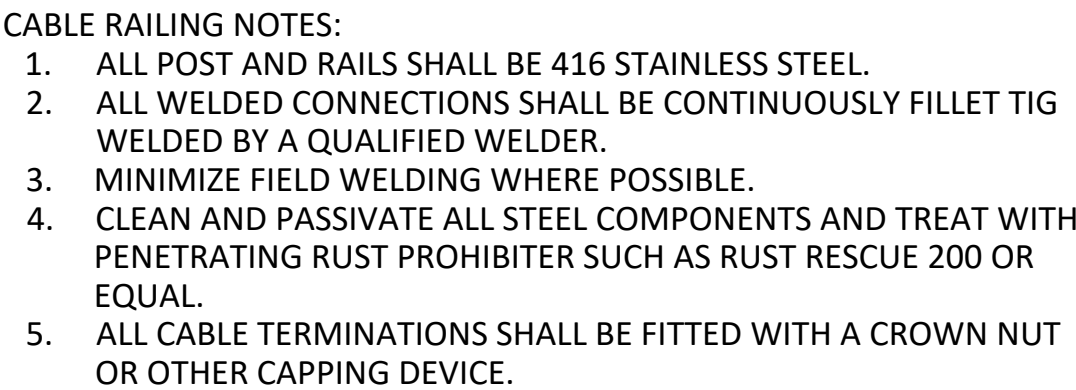
Specifications	
A. Mounting Height:	80"
B. Set Depth:	8'-0"
C. Total Length:	88'-0"
D. Butt Diameter:	12"
E. Wall Thickness:	.375"
F. Top Diameter:	4"
Flapole Sections:	4
Shaft Weight:	1140 lbs.
Hardware Weight:	59 lbs.
Ground Sleeve Weight:	119 lbs.
* Max Flag Size:	15' x 25'
* Max Wind Speed w/ Nylon Flag:	89 mph
* Max Wind Speed No Flag:	121 mph
* Wind Speed Specifications from ANSI/NAAMM FP 101-007	

PROVIDE THE FOLLOWING:
1 - USA FLAG AND 1 - TEXAS FLAG

- 1 -



Page 5 of 5



NOTES:

1. FOOTING SHALL BEAR ON UNDISTURBED SOIL AND PROPERLY COMPACTED SUBGRADE.
2. STONE TYPE, SHAPE AND PATTERN SHALL BE A MILSPAL BLEND SAWN CHOPPED, WITH FACE HEIGHTS BETWEEN 4"-8" AND BED DEPTHS OF 4"
3. STONE AND MORTAR CONSTRUCTION TO CONFORM TO SPECIFICATIONS.
4. PROVIDE GALVANIZED MASONRY TIES AT ALL STONE VENEER FASCIA AT 9" VERTICAL O.C.
5. SUBMIT STONE TYPE AND COLOR TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION. LANDSCAPE ARCHITECT TO APPROVE MOCKUP STONE VENEER INDICATING PATTERN, JOINTING, COLORS, ETC. PRIOR TO PROCEEDING WITH WORK.

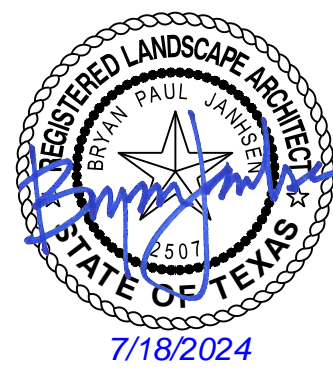


LOW MASONRY WALL DETAIL

NTS

NTS

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Web - www.freese.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

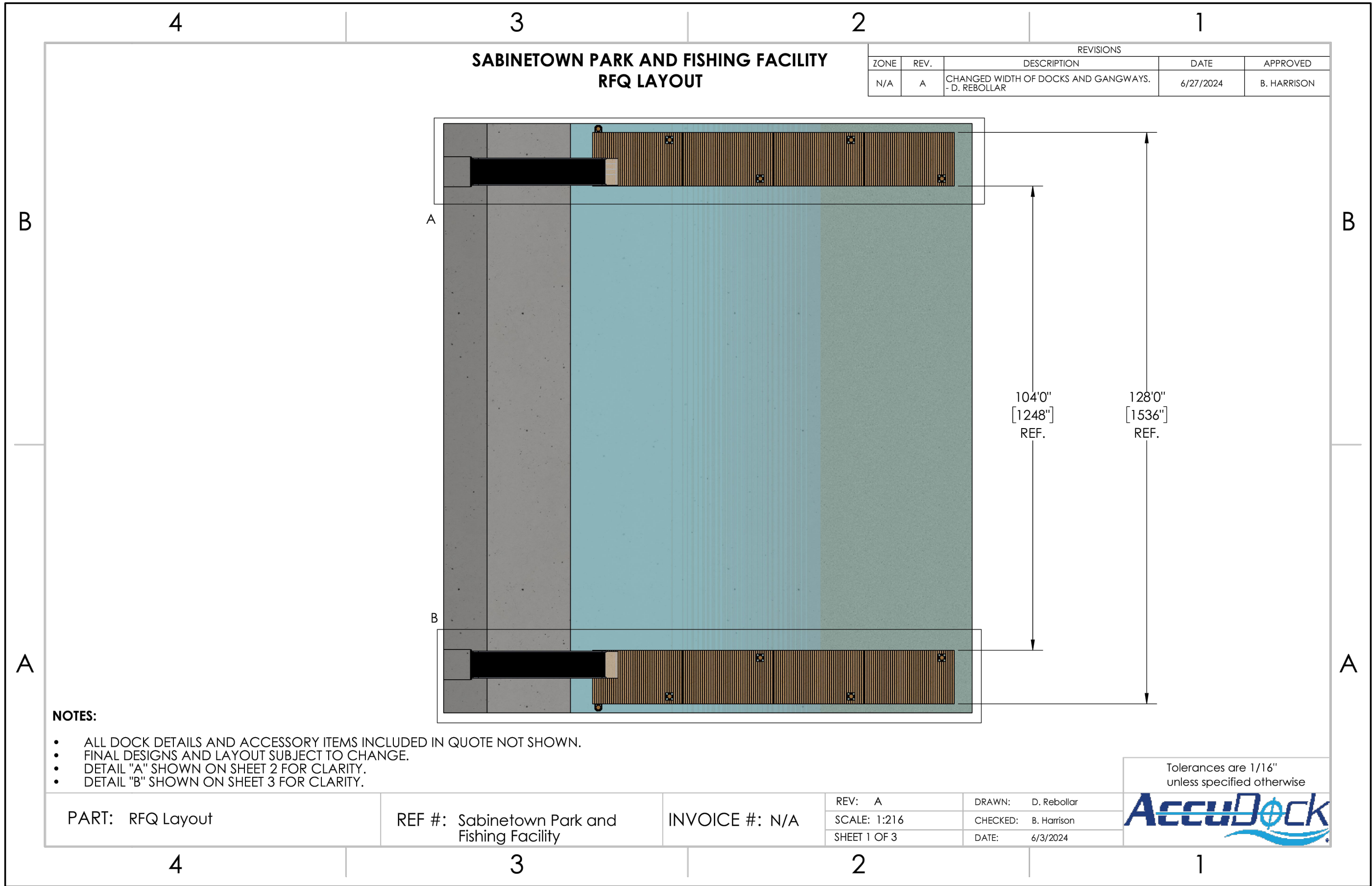
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FURNISHINGS

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				CHECKED	JHH
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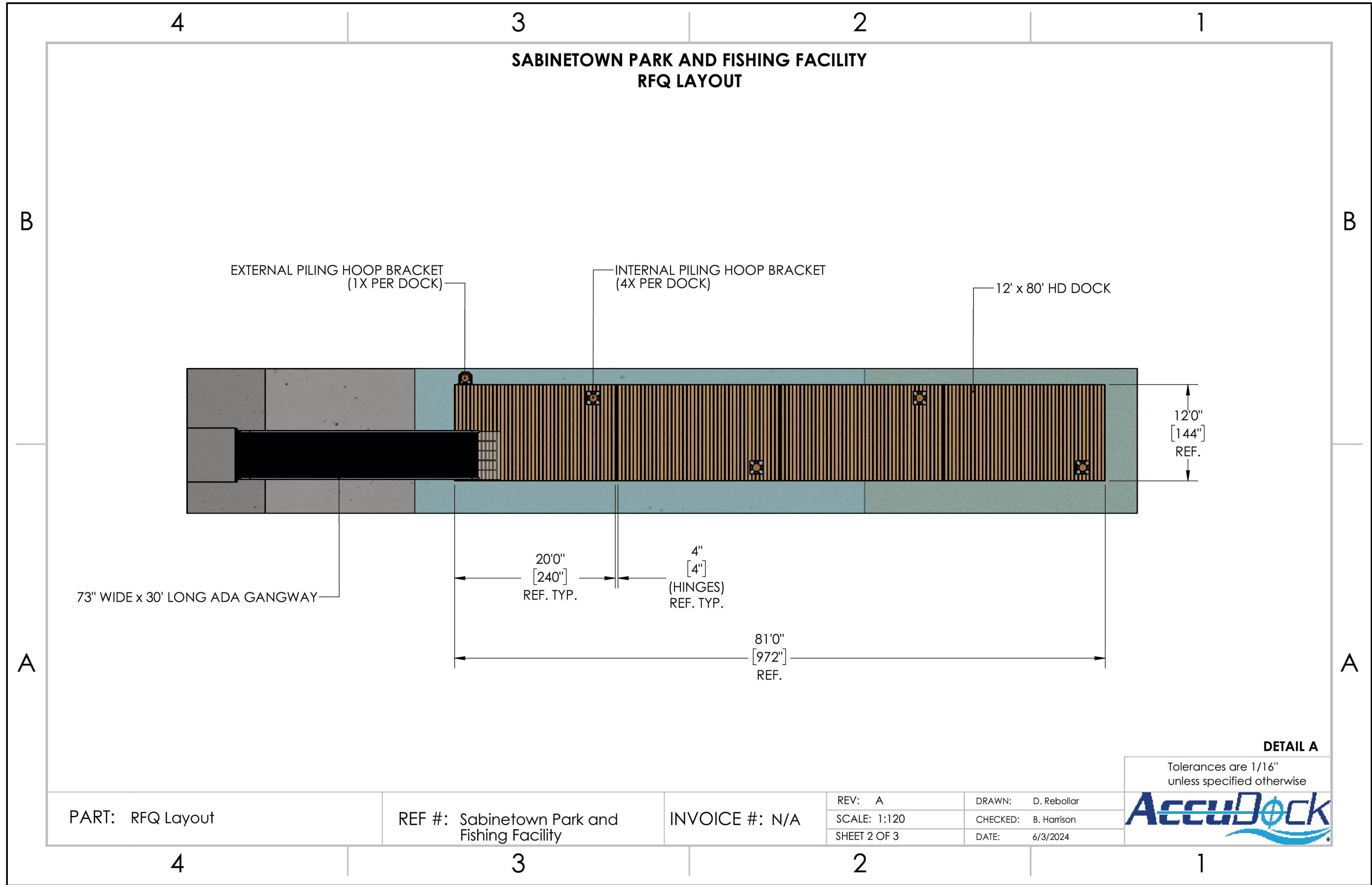
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ISSUED FOR BID



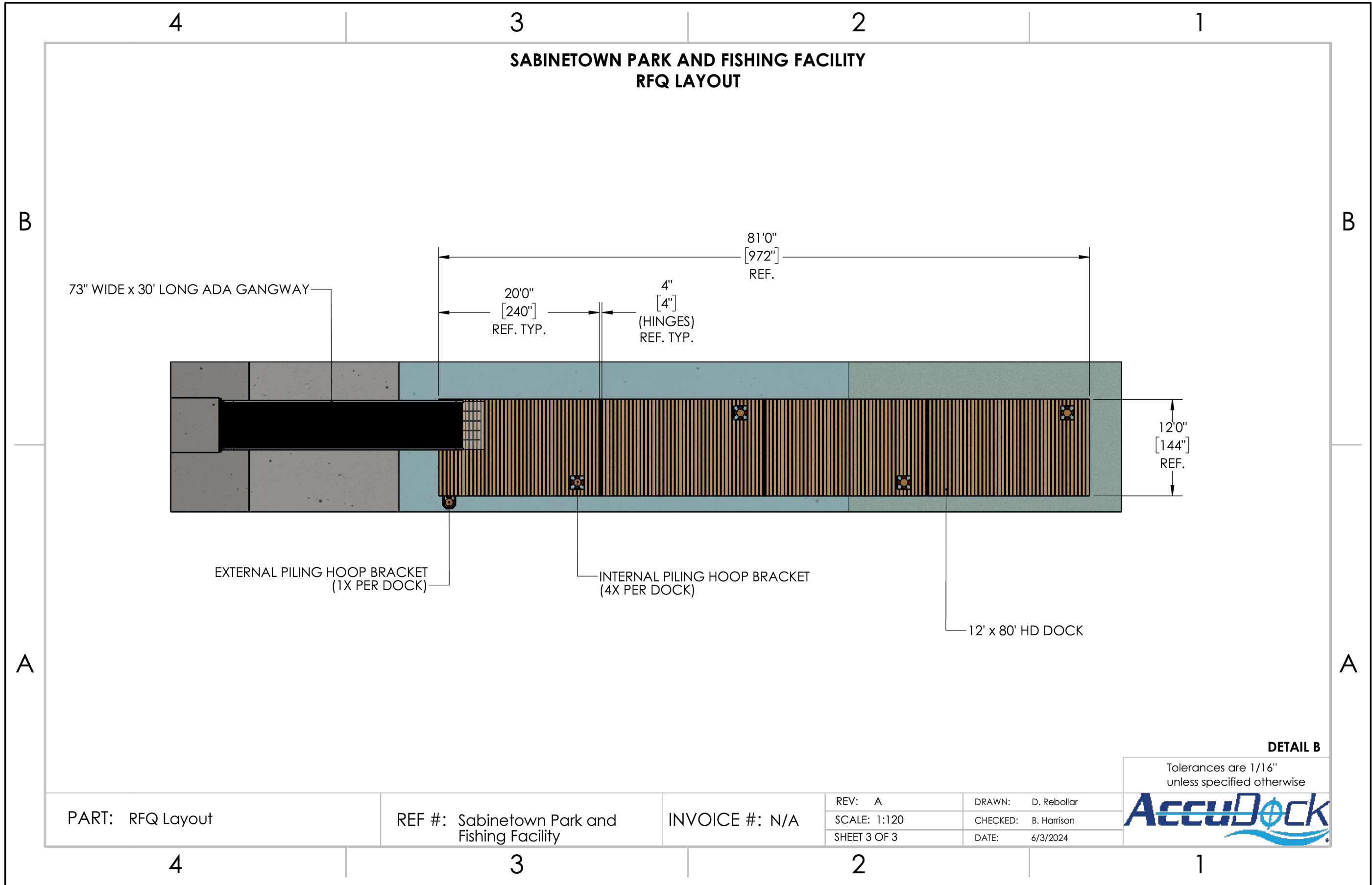
1 OVERALL LAYOUT

L6 NTS



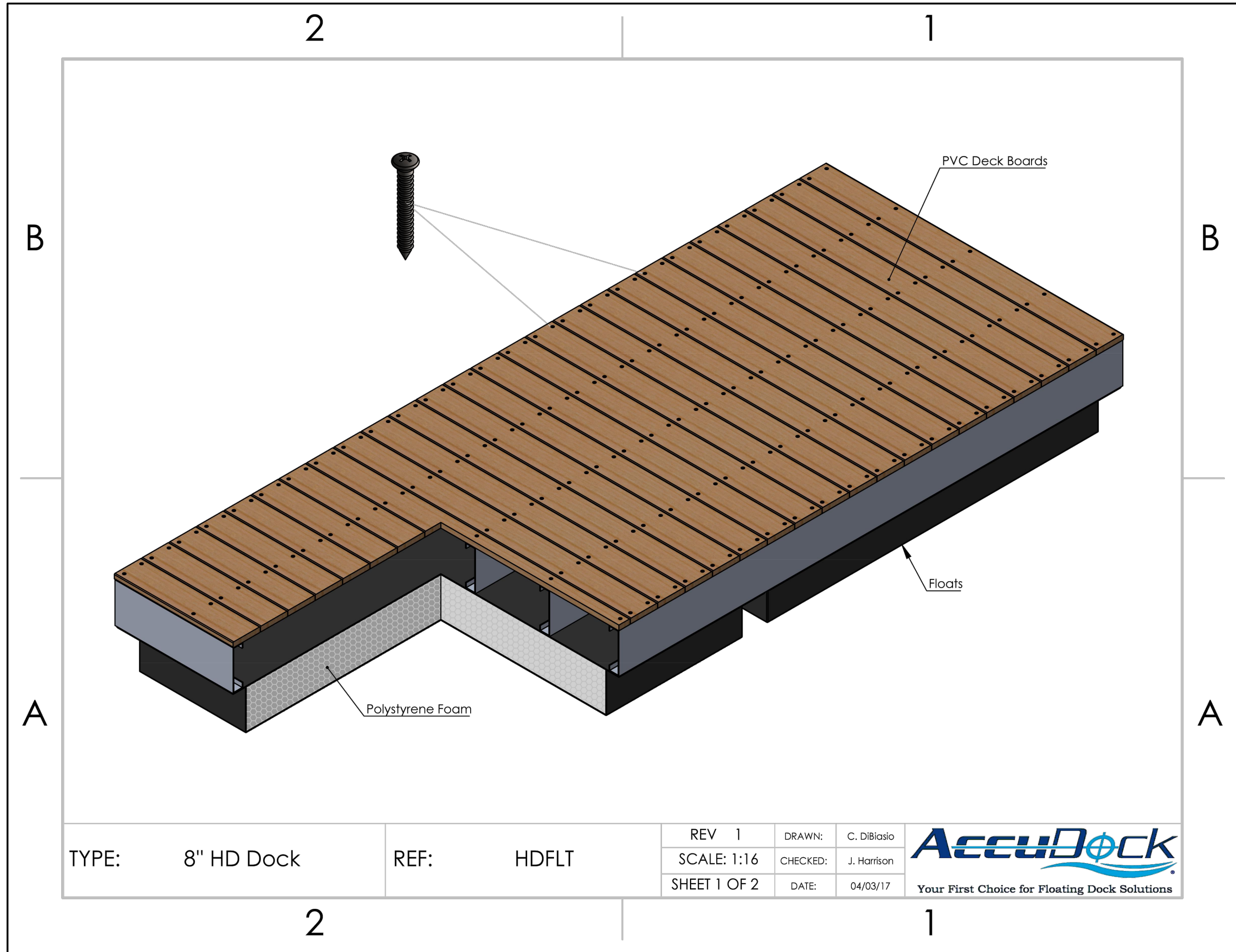
2 NORTH LAYOUT

L6 NTS



3 SOUTH LAYOUT

L6 NTS



4 8" HD DOCK

L6 NTS

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

LANDSCAPE ARCHITECTURE
(BID ALTERNATE NO.2 & 3)
FLOATING DOCKS

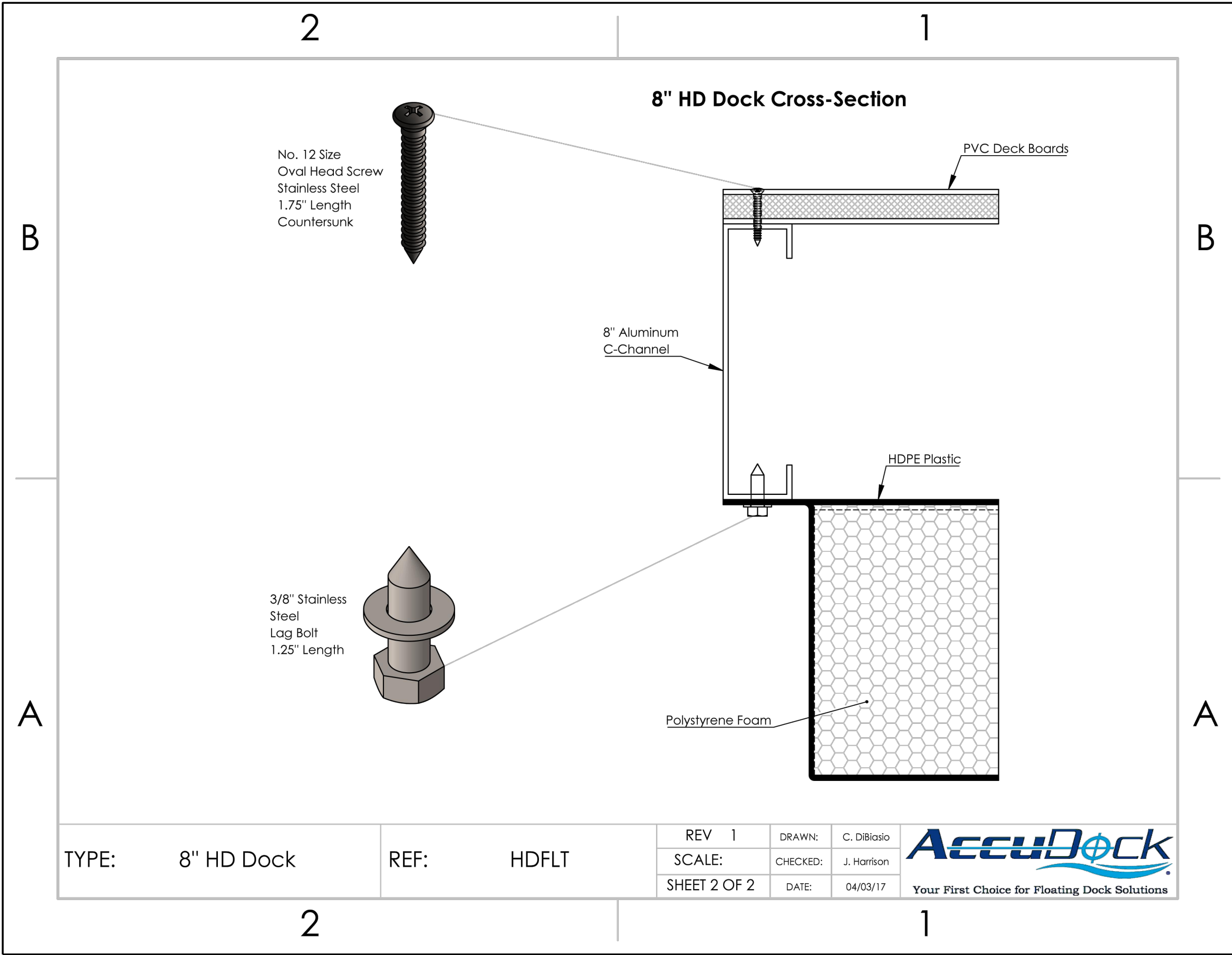
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SHEET L6

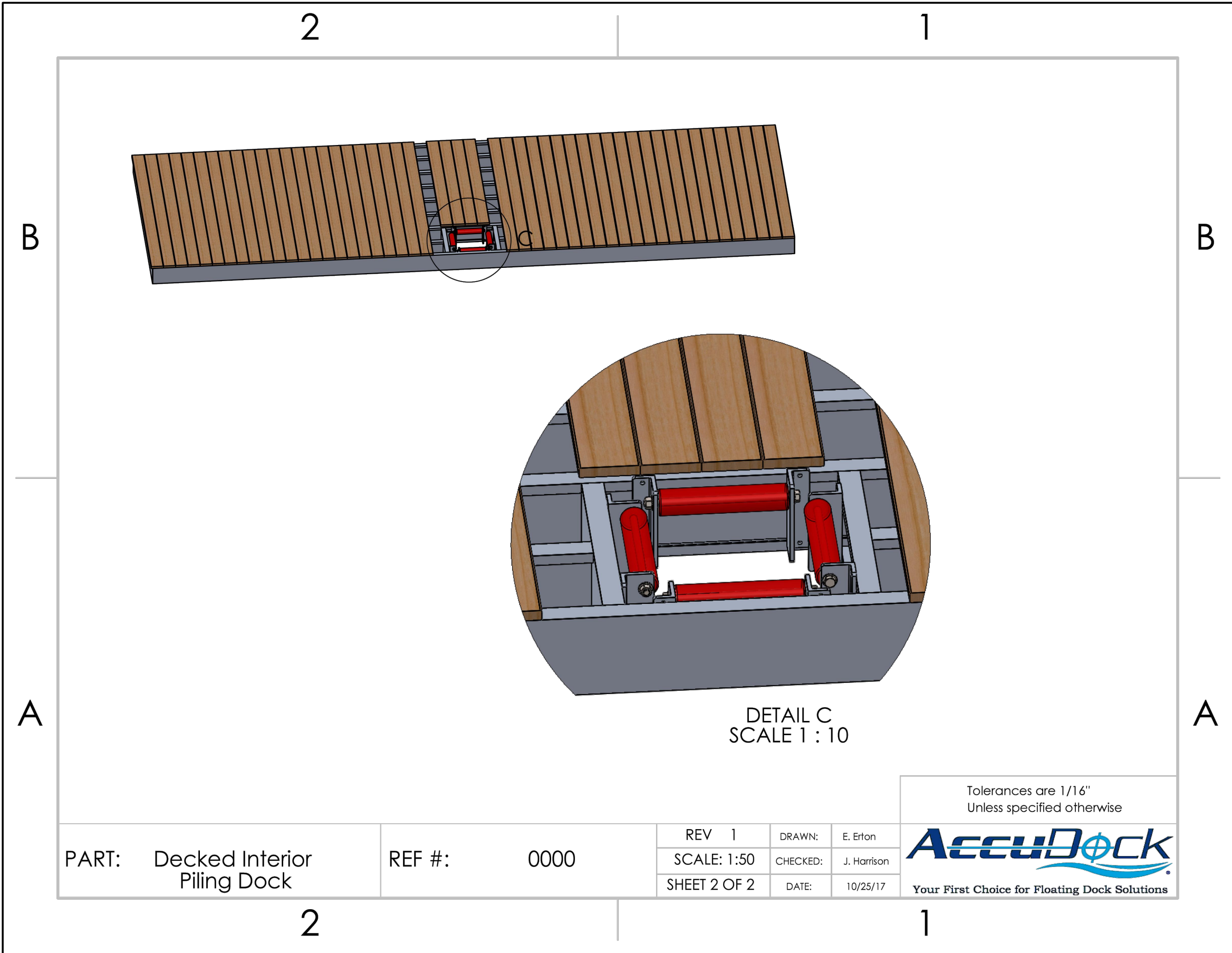
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ISSUED FOR BID

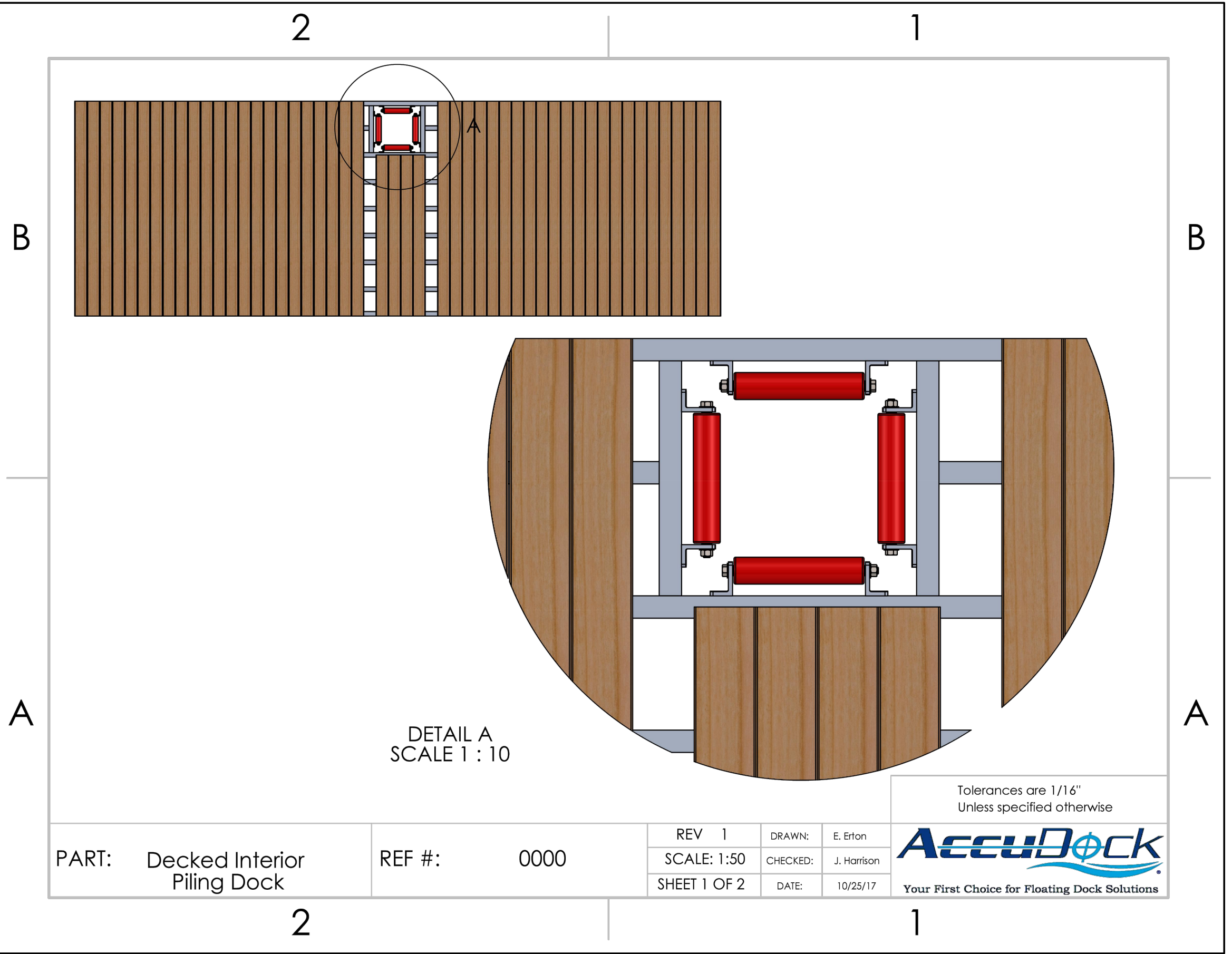
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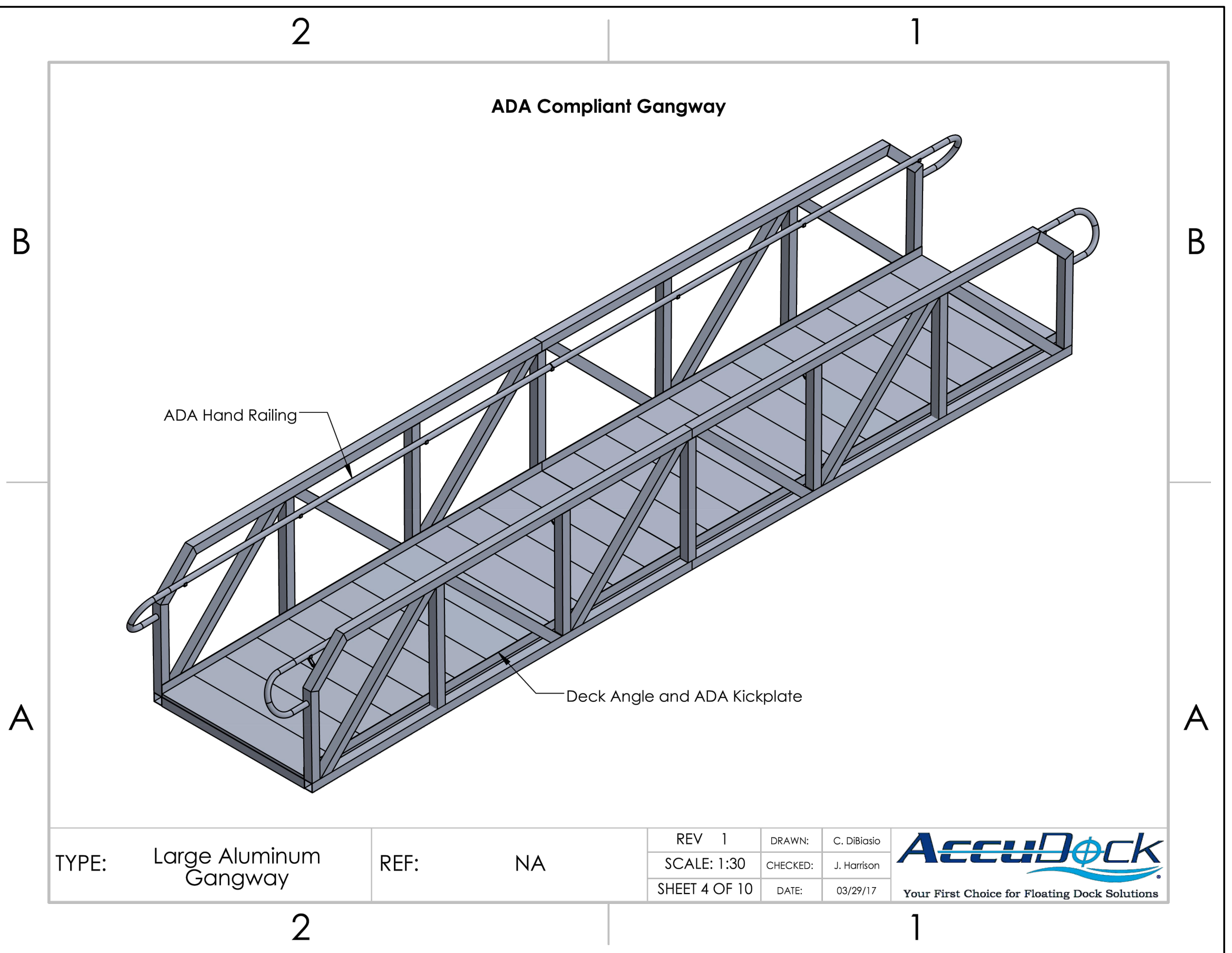
1 8" HD DOCK CROSS-SECTION
L7 NTS



3 DECKED INTERIOR PILING DOCK
L7 NTS



2 DECKED INTERIOR PILING DOCK
L7 NTS



4 ADA COMPLIANT GANGWAY
L7 NTS

ISSUED FOR BID

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-2144



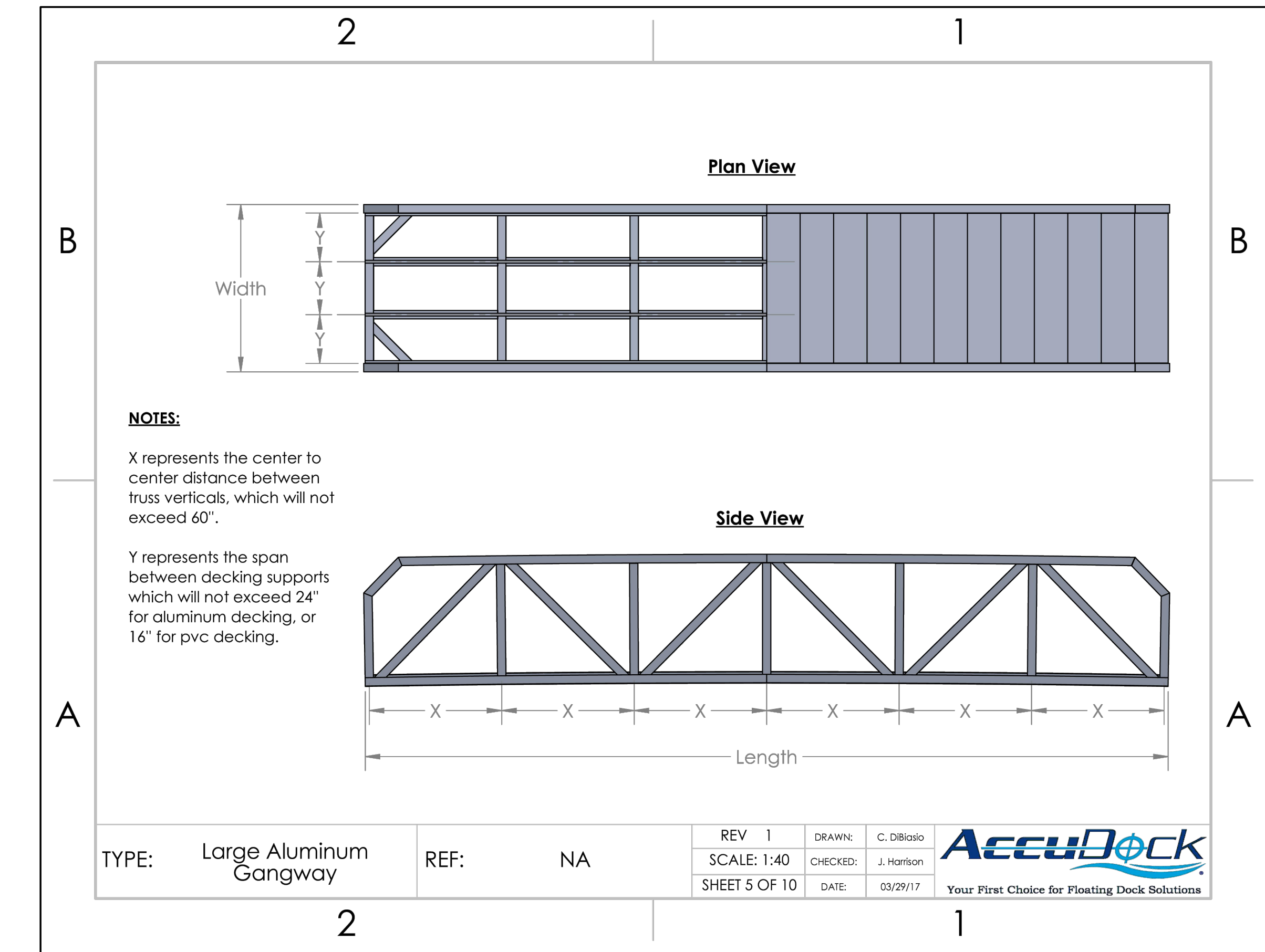
FREEZE & NICHOLS
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Corpus Christi, Texas 78401-3700
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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

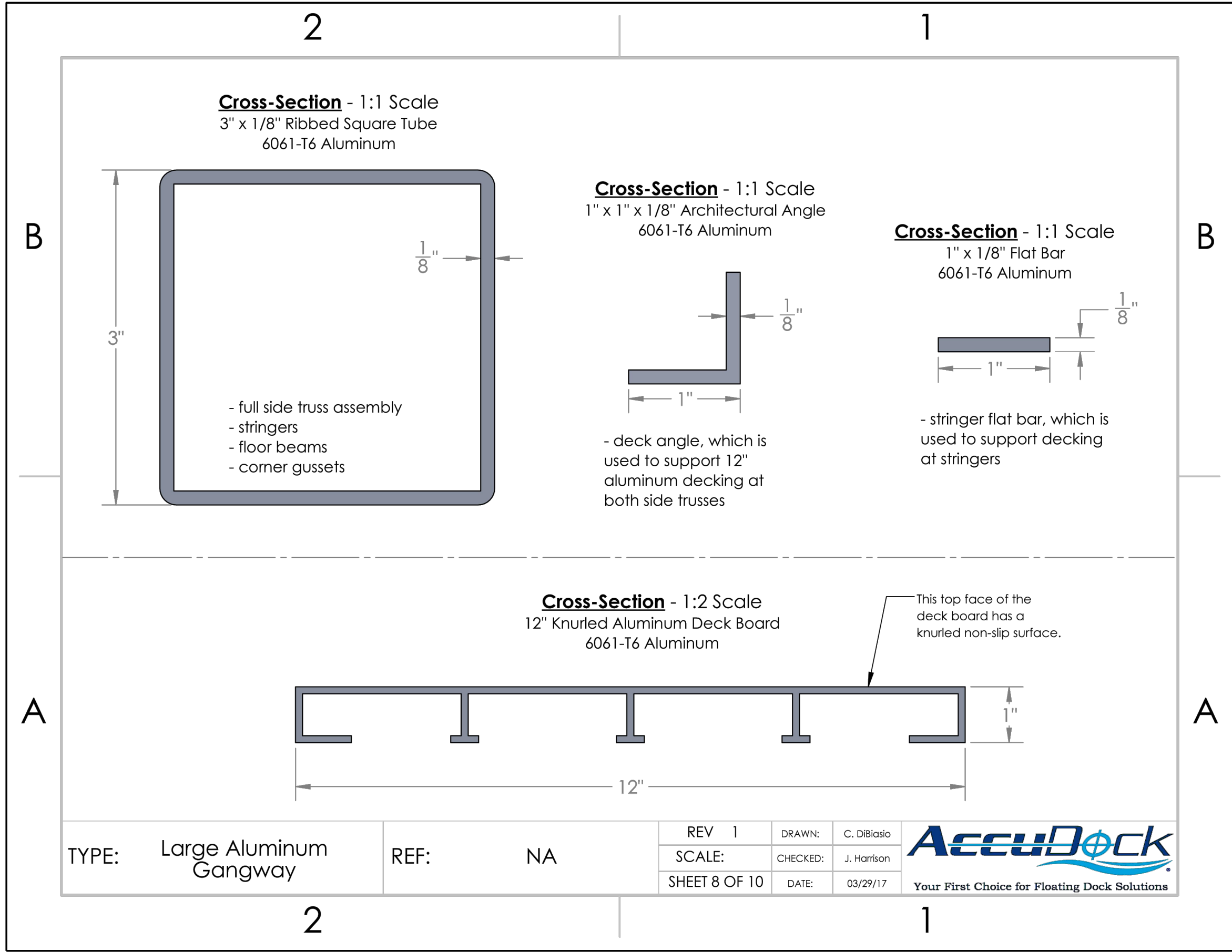
LANDSCAPE ARCHITECTURE
(BID ALTERNATE NO.2 & 3)
FLOATING DOCKS

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SHEET					L7
SEQ.					

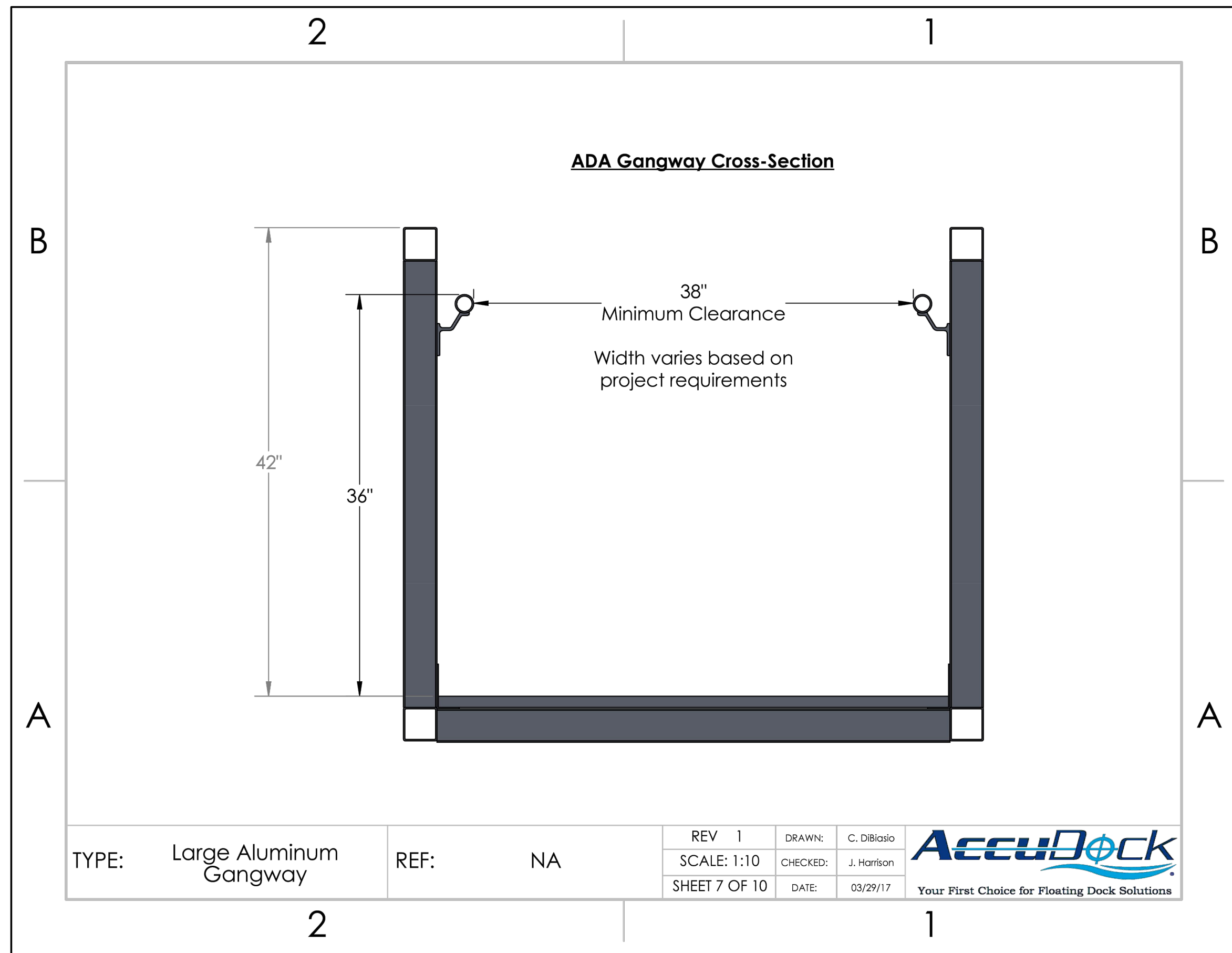
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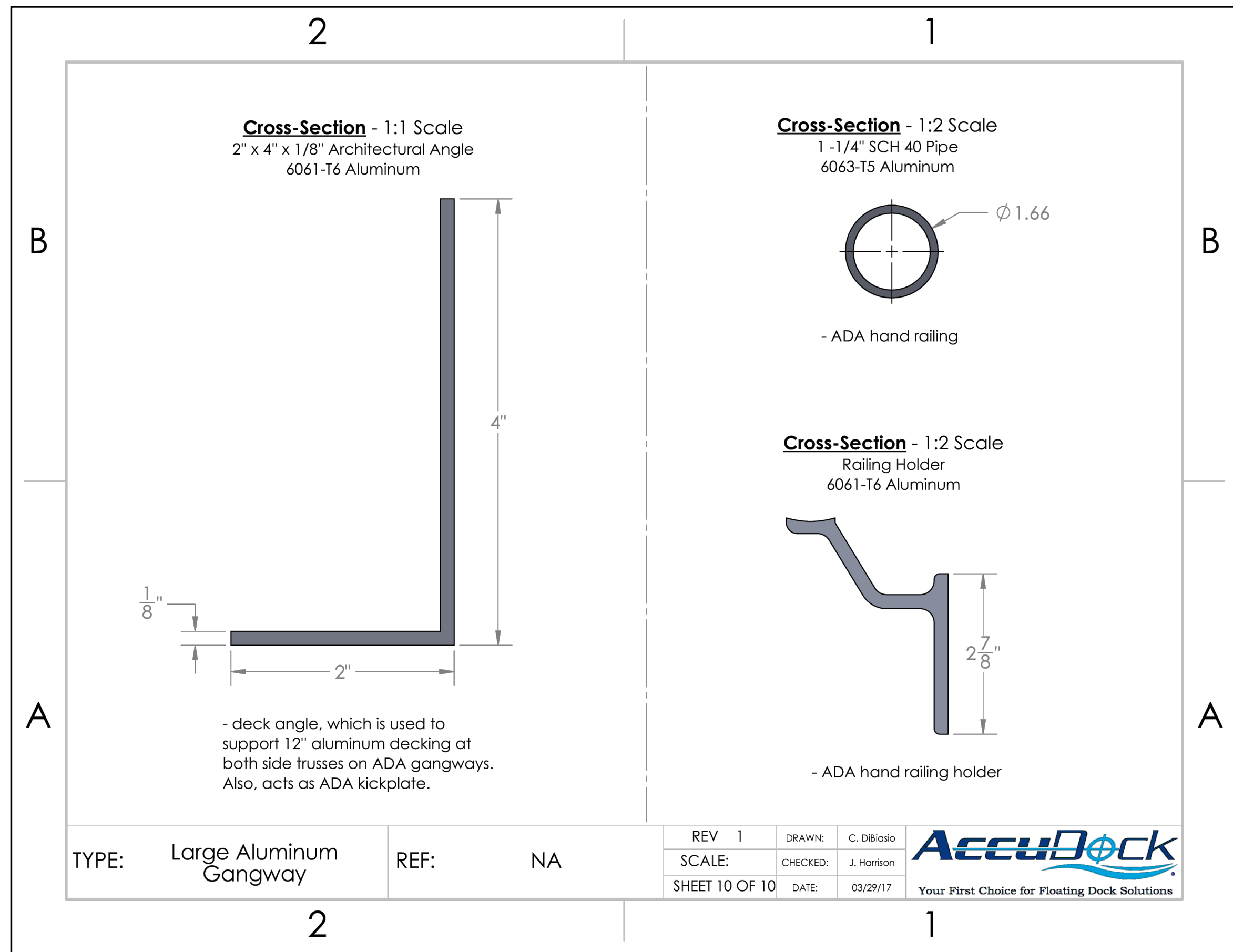
1 LARGE ALUMINUM GANGWAY
L8 NTS



3 LARGE ALUMINUM GANGWAY
L8 NTS



2 ADA GANGWAY CROSS-SECTION
L8 NTS



4 LARGE ALUMINUM GANGWAY
L8 NTS

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7/18/2024

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA
LANDSCAPE ARCHITECTURE
(BID ALTERNATE NO.2 & 3)
FLOATING DOCKS

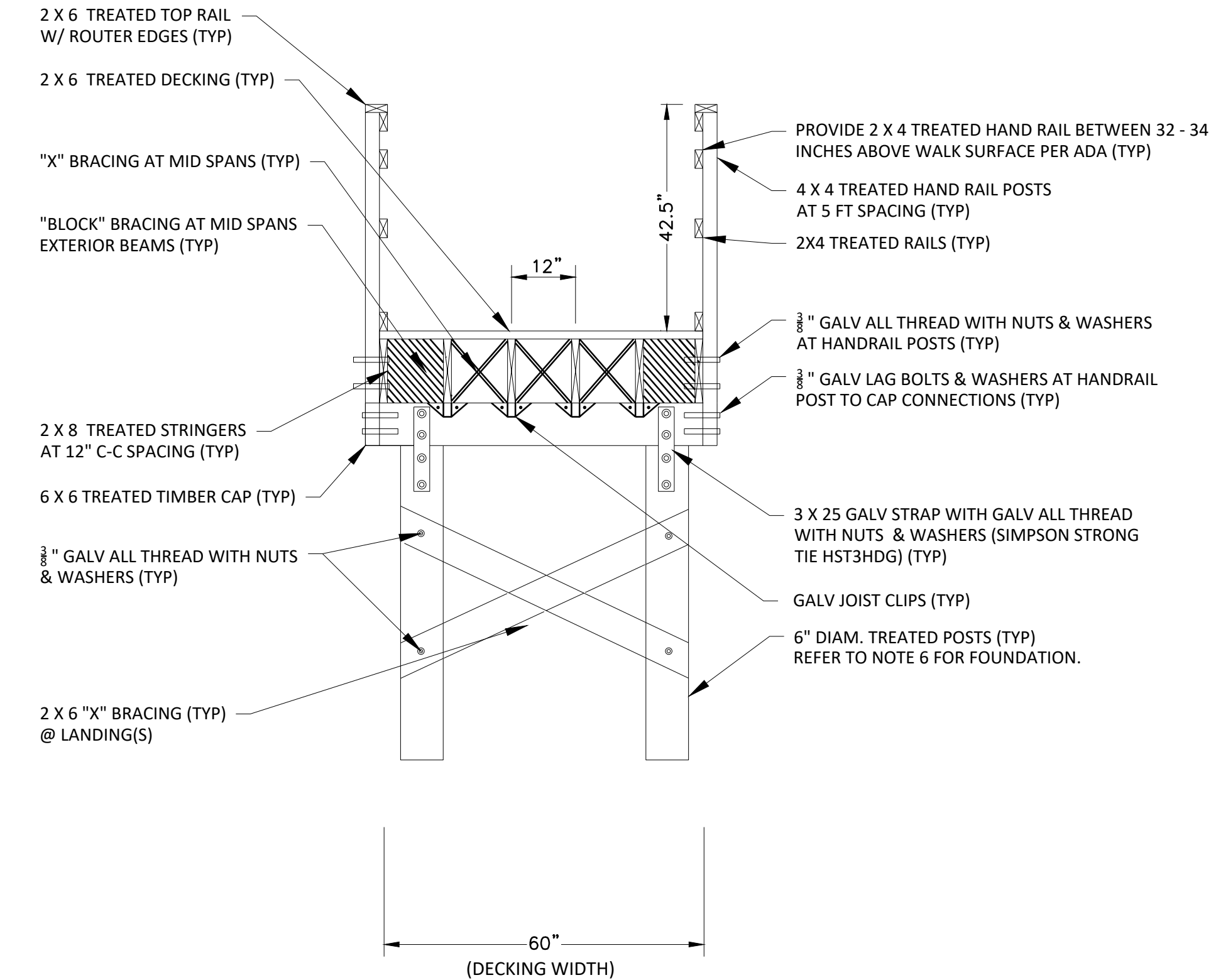
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VERIFY SCALE: Bar Scale is one inch on original drawing. If not one hinch on this sheet, adjust 1 scale.														
SHEET L8														
SEQ.														

GENERAL NOTES

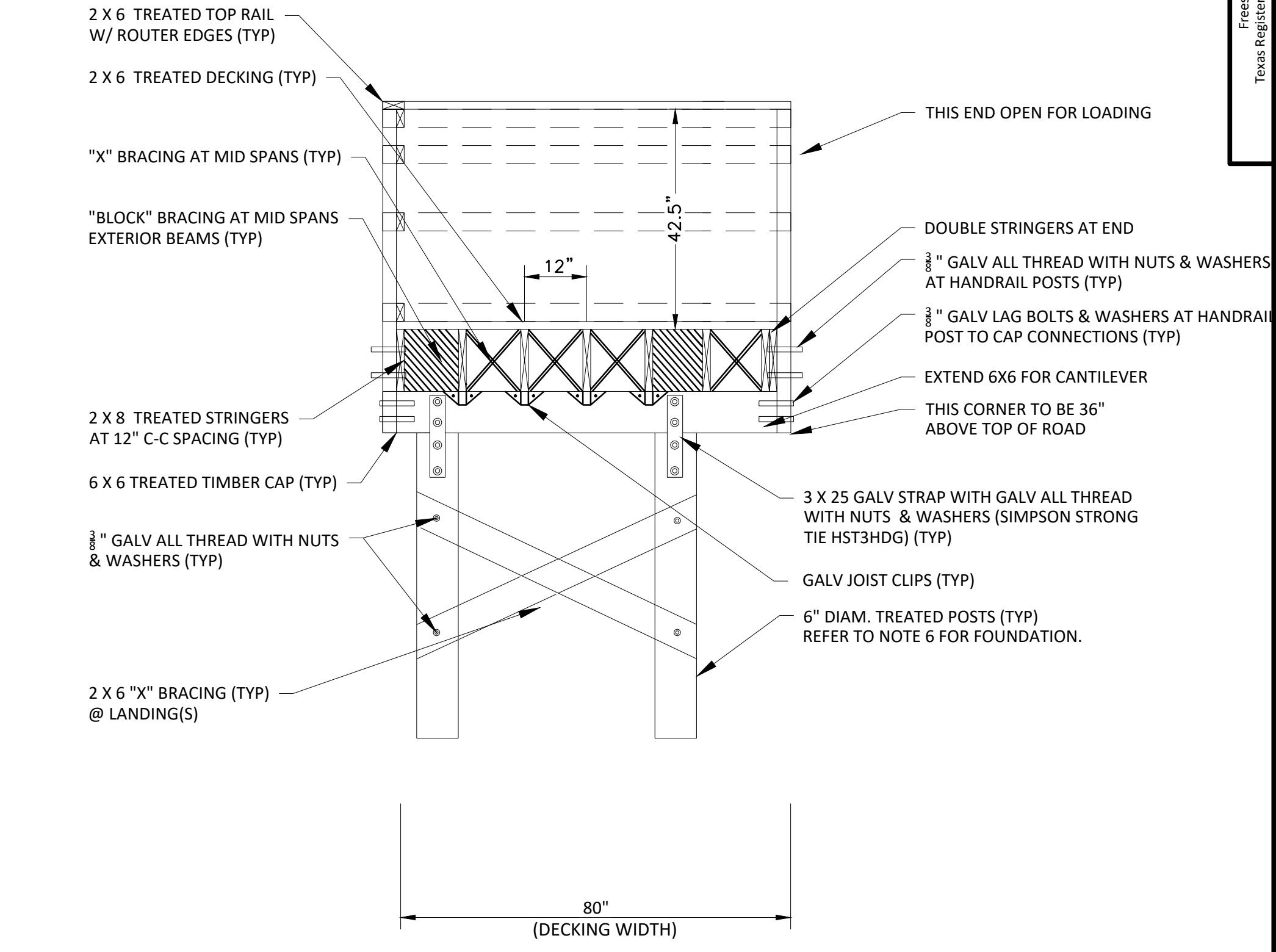
- ALL HARDWARE INCLUDING BOLTS, WASHERS, SCREWS, NAILS, TO BE HOT DIPPED GALV. STRINGERS SHALL BE CONNECTED TO CAPS USING CONNECTION BRACKETS AS SHOWN ON PLANS. ALL FASTENERS SHALL MEET MANUFACTURES RECOMMENDATIONS.
- ALL TIMBER MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.
- HORIZONTAL RAIL MEMBERS SHALL BE SCREWED TO THE POSTS W/ 2.5 INCH GALV. SCREWS.
- DECK PLANKS SHALL BE ATTACHED TO STRINGERS W/ 2.5 INCH GALV SCREWS, MIN. TWO SCREWS IN EACH PLANK PER STRINGER CONNECTION.
- TIMBER POST FOUNDATIONS SHALL INSTALLED IN 12" DIAM. CONCRETE FOOTINGS INSTALLED BY AUGER OF SUFFICIENT DEPTH TO REACH BEARING CAPACITY.

ADA NOTES

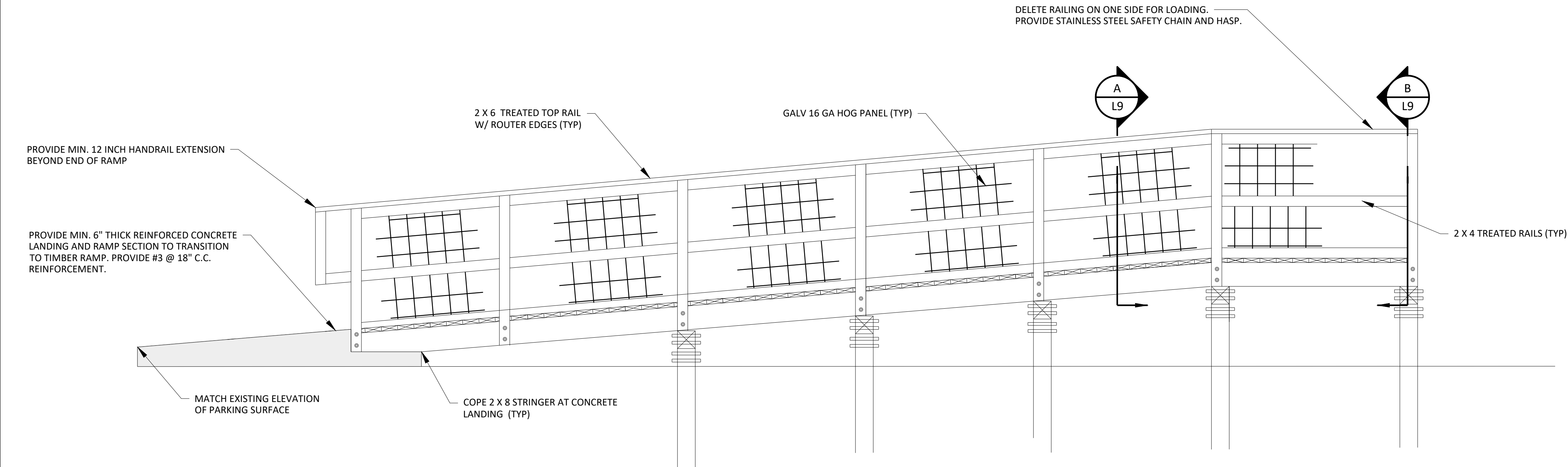
- ALL LOADING RAMPS SHALL BE CONSTRUCTED TO MEET ALL CURRENT ADA COMPLIANCE CRITERIA IN ACCORDANCE WITH TDLR REGULATIONS.
- MAXIMUM SLOPE SHALL BE 1:12 ON ALL RAMPS.
- MAXIMUM RISE OF RAMPS SHALL BE 30 INCHES FROM STARTING NATURAL GROUND. PROVIDE ADDITIONAL LANDINGS AND RAMP LENGTHS TO ACHIEVE FINAL PLATFORM HEIGHT.
- FINAL LANDING SHALL HAVE 60 INCH CLEAR TURNAROUND AREA.
- HANDRAIL SHALL BE DELETED ON ONE SIDE OF FINAL LANDING AREA FOR LOADING INTO BOATS. PROVIDE STAINLESS SAFETY CHAIN AND HASP.



1 SECTION B
L9 NTS



2 SECTION B
L9 NTS



3 TIMBER LOADING RAMP
L9 NTS

ISSUED FOR BID

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Texas Registered Engineering Firm F-2144



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800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

LANDSCAPE ARCHITECTURE

TIMBER LOADING RAMPS

F&N JOB NO.		SRA23985		DATE		07/15/2024		DESIGNED		BPJ		DRAWN		JMST		CHECKED		JHH		APPROVED		FILE NAME							
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NO.		ISSUE		BY		DATE																VERIFY SCALE		Bar Scale is one inch on original drawing.		1		scale.	

SHEET
L9

SEQ.

SABINETOWN PARK/FISHING FACILITY

GENERAL NOTES

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROJECT ENGINEER'S PLAN LAYOUT AND GUIDELINES. SUITABILITY FOR ACCESS AND INTENDED USAGE SHALL BE THE RESPONSIBILITY OF THE ARCHITECT.
2. NO VEHICULAR ACCESS IS PERMITTED ON THE BOARDWALK SHOWN ON THESE PLANS.
3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS THROUGH THE PROJECT ENGINEER.
4. ONLY PERMATRAK NORTH AMERICA MAY PROVIDE THE PRECAST STRUCTURE SHOWN ON THESE PLANS.
5. INSTALLER SHALL NOT CUT OR MODIFY ANY PERMATRAK COMPONENTS WITHOUT PERMATRAK'S APPROVAL.
6. THE INSTALLER IS RESPONSIBLE FOR THE APPROPRIATE MEANS AND METHODS FOR THIS PROJECT, INCLUDING ENSURING PROPER CONSTRUCTABILITY OF ALL COMPONENTS SHOWN ON THESE PLANS. NO EQUIPMENT MAY BE OPERATED ON THE STRUCTURE, UNLESS NOTED OTHERWISE IN THE DESIGN DATA ON THIS SHEET.
7. A MATERIAL CHANGE TO THE BOARDWALK SYSTEM IS NOT ALLOWED AND NOT CONSIDERED AN EQUAL.

DESIGN DATA

1. BOARDWALK SHALL BE DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) AND ALL RELEVANT LOCAL AND PROJECT SPECIFICATIONS.
- DESIGN LIVE LOAD:
PEDESTRIAN LOADING - 100 PSF UNIFORM
VEHICULAR LOADING - NONE
2. FOUNDATIONS SHALL BE DESIGNED FOR LATERAL EARTH PRESSURE, LIVE LOAD SURCHARGE AND STRUCTURE LOADS.
- APPLIED DRILLED SHAFT LOADS (PER SHAFT, DOES NOT INCLUDE WEIGHT OF PIER CAP):
COMPRESSION - 17.0 KIPS (SERVICE, D+L)
LATERAL - 1.5 KIPS (W, WIND CONTROLS)
3. RAILING SHALL BE DESIGNED IN ACCORDANCE WITH IBC SPECIFICATIONS. THE RAILING SUPPLIER IS RESPONSIBLE FOR THE ENGINEERING OF THE DETAILED RAILING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. FOUNDATIONS SHOWN SHALL BE DESIGNED BY OTHERS.

MATERIAL

1. ALL BOLTS, NUTS, WASHERS, AND HARDWARE SHALL BE GALVANIZED FIBER-REINFORCED POLYMER (FRP) OR STAINLESS STEEL GRADE 316.
2. ALL REINFORCING SHALL BE UNCOATED GRADE 60 CONFORMING TO ASTM A615.

QUALITY ASSURANCE SPECIFICATIONS

1. ACCEPTABILITY CRITERIA FOR TREADS AND CURBS (IF APPLICABLE): THE FINISHED VISIBLE (IN THE FINAL INSTALLED POSITION) SURFACE SHALL HAVE NO OBVIOUS IMPERFECTIONS OTHER THAN MINIMAL COLOR OR TEXTURE VARIATIONS FROM THE APPROVED SAMPLES OR EVIDENCE OF REPAIRS WHEN VIEWED IN GOOD TYPICAL DAYLIGHT ILLUMINATION WITH THE UNARMED NAKED EYE AT A 20 FT. VIEWING DISTANCE. APPEARANCE OF THE SURFACE SHALL NOT BE EVALUATED WHEN LIGHT IS ILLUMINATING THE SURFACE FROM AN EXTREME ANGLE AS IT TENDS TO ACCENTUATE THE MINOR SURFACE IRREGULARITIES. THE FOLLOWING IS A LIST OF FINISH DEFECTS THAT SHALL BE PROPERLY REPAIRED, IF OBVIOUS WHEN VIEWED AT A 20 FT. DISTANCE. PATCHING (BY A TRAINED SKILLED CONCRETE REPAIR PERSON) IS AN ACCEPTABLE REPAIR METHOD.
 - a. RAGGED OR IRREGULAR SURFACES.
 - b. EXCESSIVE AIR VOIDS (COMMONLY CALLED BUG HOLES) LARGER THAN 1/4 IN. EVIDENT ON THE TOP SURFACE OF THE TREAD OR CURBS (IF APPLICABLE).
 - c. ADJACENT FLAT AND RETURN SURFACES WITH GREATER TEXTURE AND/OR COLOR DIFFERENCES THAN THE APPROVED SAMPLES OR MOCKUPS.
 - d. CASTING AND/OR AGGREGATE SEGREGATION LINES EVIDENT FROM DIFFERENT CONCRETE PLACEMENT LIFTS AND CONSOLIDATION.
 - e. VISIBLE MOLD JOINTS OR IRREGULAR SURFACES.
 - f. RUST STAINS ON EXPOSED SURFACES.
 - g. UNITS WITH EXCESSIVE VARIATION IN TEXTURE AND/OR COLOR FROM THE APPROVED SAMPLES, WITHIN THE UNIT OR COMPARED WITH ADJACENT UNITS.
 - h. BLOCKING STAINS EVIDENT ON EXPOSED SURFACES.
 - i. AREAS OF BACKUP CONCRETE BLEEDING THROUGH THE FACING CONCRETE.
 - j. FOREIGN MATERIAL EMBEDDED IN THE SURFACE.
 - k. VISIBLE REPAIRS AT A 20 FT. VIEWING DISTANCE.
 - l. REINFORCEMENT SHADOW LINES.
 - m. CRACKS VISIBLE AT A 20 FT. VIEWING DISTANCE.

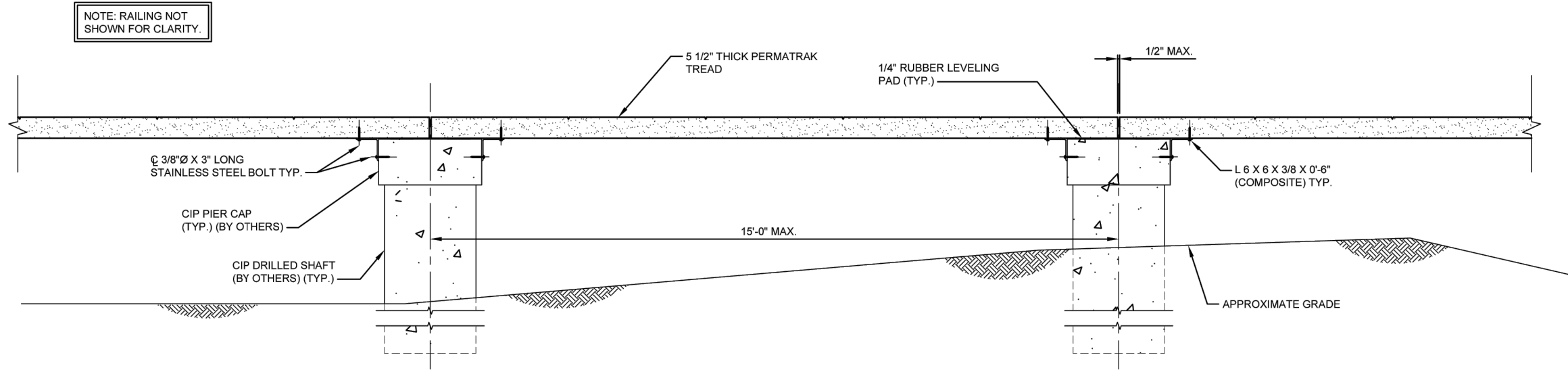
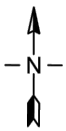
PROJECT COMPONENTS

SUPPLIED BY PERMATRAK

PRECAST CONCRETE TREADS
6" X 14" THICK RUBBER LEVELING PADS (TREAD TO PIER CAP)
RUBBER SPACER PADS (BETWEEN TREADS)
6 X 8 X 3/8 X 0-6" CLIP ANGLE KITS (TREAD TO FOUNDATION CONNECTIONS)
SHIMS (LEVELING FOR PRECAST COMPONENTS)

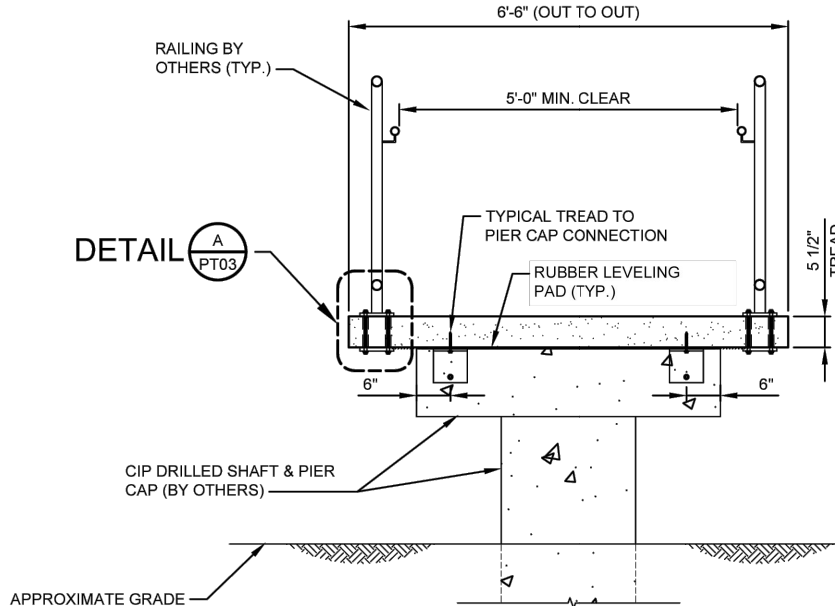
SUPPLIED BY CONTRACTOR

CAST-IN-PLACE CONCRETE (APPROACH SIDEWALK, DRILLED SHAFTS, AND PIER CAPS)
1/2" EXPANSION JOINT MATERIAL
RAILING AND CONNECTION HARDWARE
RAMP AND CONNECTION HARDWARE



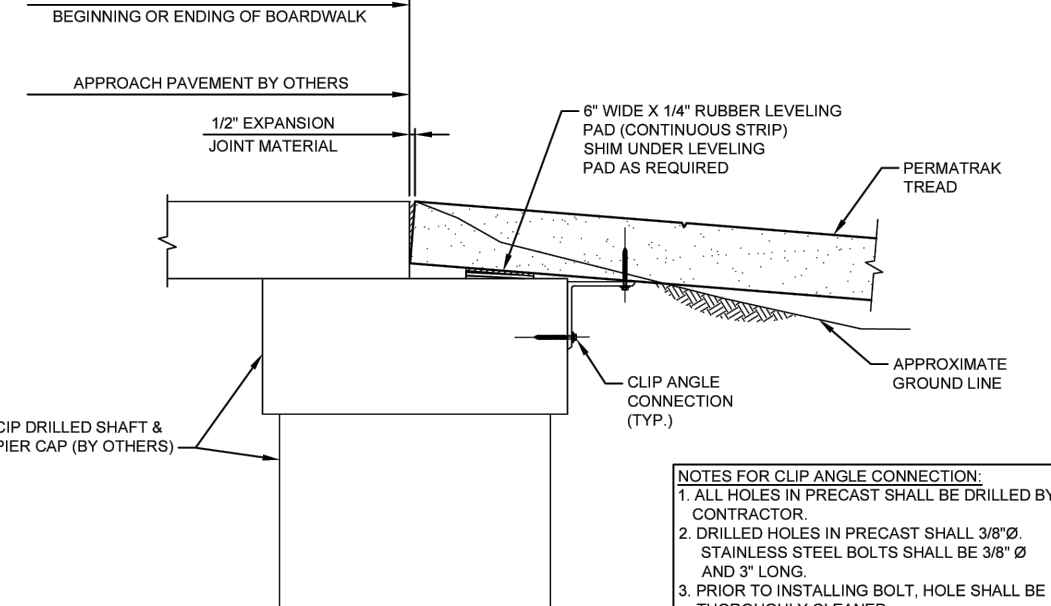
PARTIAL BOARDWALK ELEVATION

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



TYPICAL BOARDWALK SECTION

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



TYPICAL APPROACH DETAIL

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

6			
5			
4			
3			
2			
1			
NO.	DATE	DESCRIPTION	BY:

PREPARED FOR:
FREESE & NICHOLS, INC.

FOR BIDDING
NOT FOR CONSTRUCTION



PROJECT TITLE:
**SABINETOWN
PARK/FISHING
FACILITY**
HEMPHILL, TX

JOB NUMBER: 2024-2335
DATE: 07/08/2024
DESIGNED BY: KAS
DRAWN BY: KAS
CHECKED BY: KAS
SHEET NO. PT01

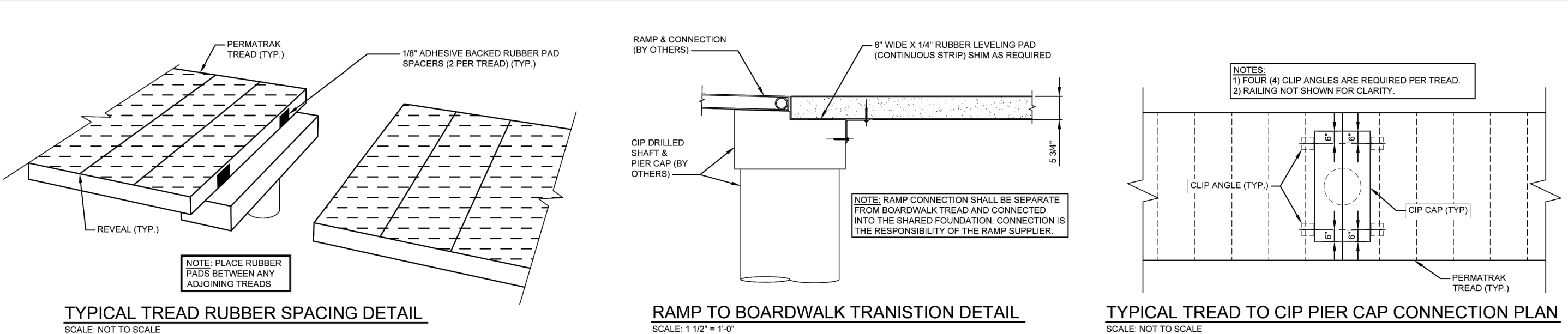
PREPARED FOR:
FREESE & NICHOLS, INC.

FOR BIDDING
NOT FOR CONSTRUCTION



PROJECT TITLE:
**SABINETOWN
PARK/FISHING
FACILITY**
HEMPHILL, TX

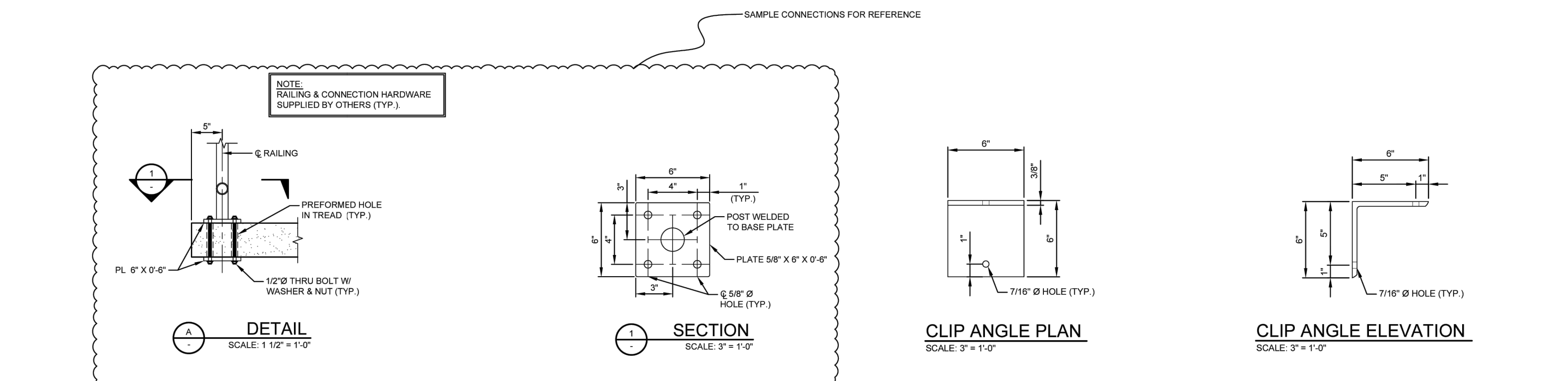
JOB NUMBER: 2024-2335
DATE: 07/08/2024
DESIGNED BY: KAS
DRAWN BY: KAS
CHECKED BY: KAS
SHEET NO. PT02



TYPICAL TREAD RUBBER SPACING DETAIL

RAMP TO BOARDWALK TRANSITION DETAIL

TYPICAL TREAD TO CIP PIER CAP CONNECTION PLAN



TYPICAL TREAD TO CIP PIER CAP CONNECTION ELEVATION

CLIP ANGLE PLAN

CLIP ANGLE ELEVATION

6			
5			
4			
3			
2			
1			
NO.	DATE	DESCRIPTION	BY:

PREPARED FOR:
FREESE & NICHOLS, INC.

FOR BIDDING
NOT FOR CONSTRUCTION



PROJECT TITLE:
**SABINETOWN
PARK/FISHING
FACILITY**
HEMPHILL, TX

JOB NUMBER: 2024-2335
DATE: 07/08/2024
DESIGNED BY: KAS
DRAWN BY: KAS
CHECKED BY: KAS
SHEET NO. PT03

PREPARED FOR:
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PROJECT TITLE:
**SABINETOWN
PARK/FISHING
FACILITY**
HEMPHILL, TX

JOB NUMBER: 2024-2335
DATE: 07/08/2024
DESIGNED BY: KAS
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CHECKED BY: KAS
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SABINE RIVER AUTHORITY

SABINETOWN RECREATION AREA

CIVIL
(BID ALTERNATE NO. 2 & 3)
PERMATRAK DETAILS

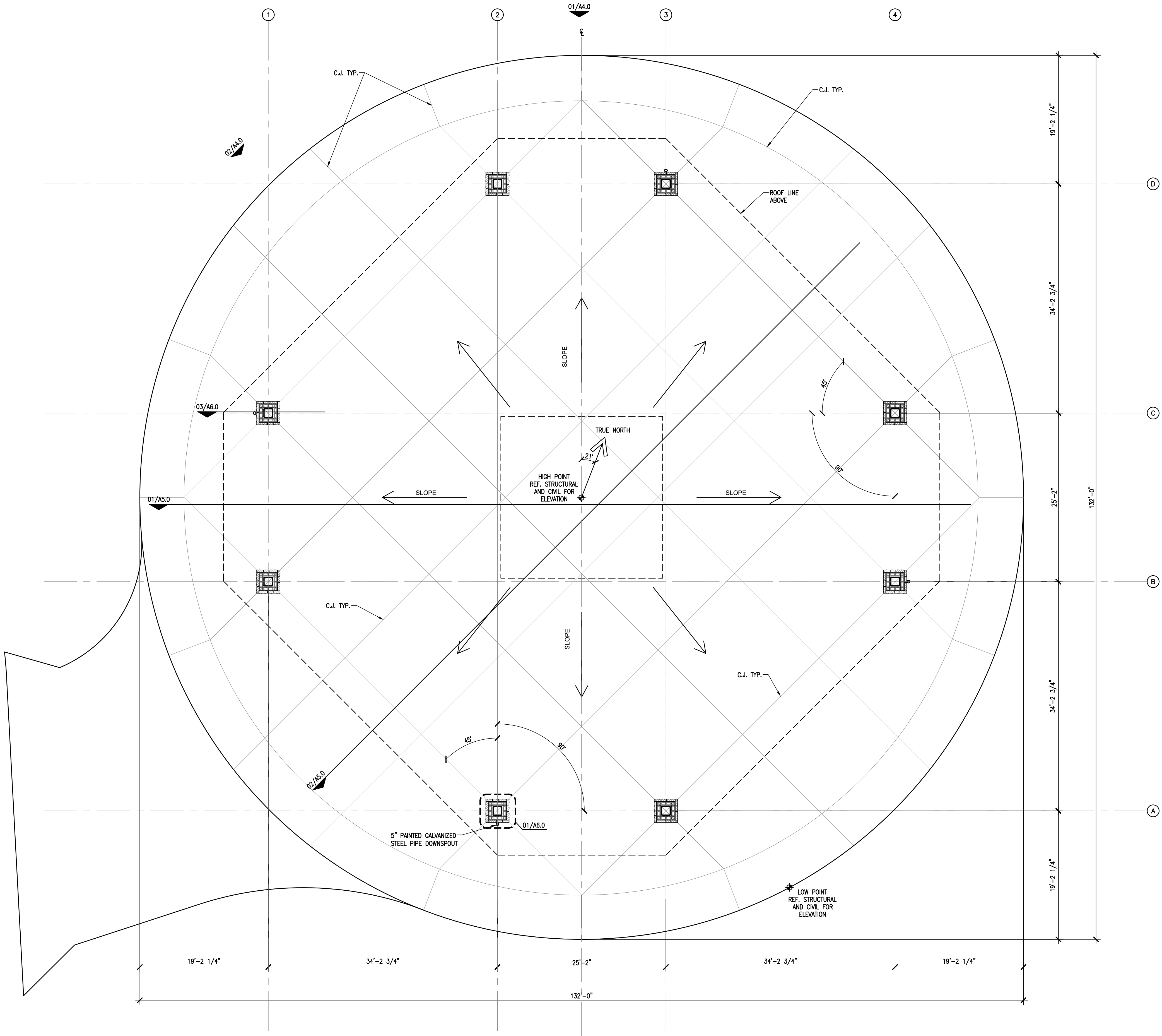
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ISSUED FOR BID

L10

SEQ.

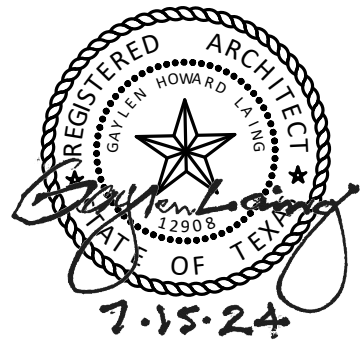
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01 PAVILION PLAN
A2.0 SCALE: 1/8" = 1'-0"



ISSUED FOR BID



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ARCHITECTURE
PLANNING
INTERIOR DESIGN

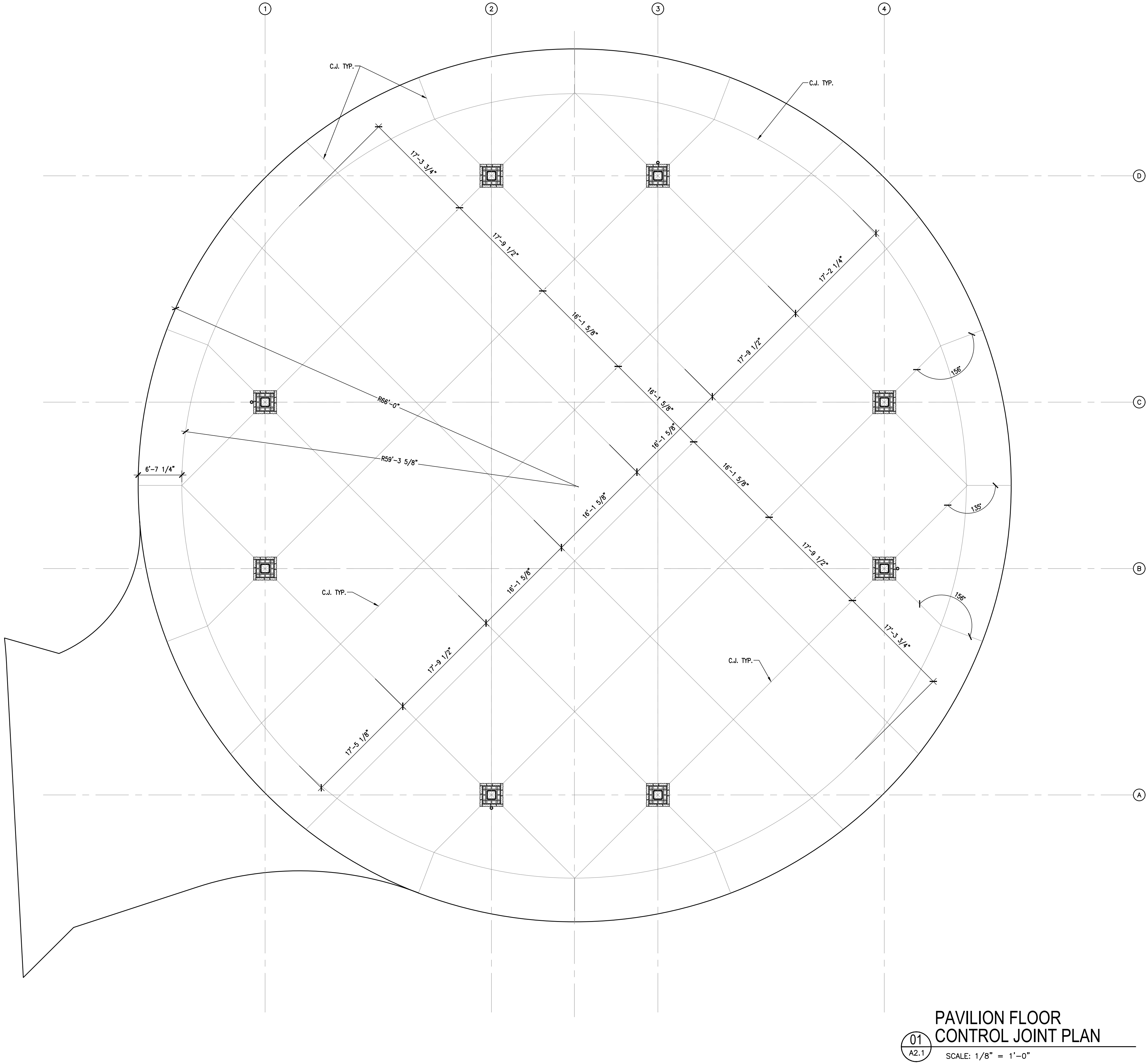
FRESE & NICHOLS
800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
Web - www.freese.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA
ARCHITECTURE
PAVILION FLOOR PLAN

NO.	ISSUE	BY	DATE	F&N JOB NO.
0				SRA23985
			DESIGNED	DATE 07/08/2024
			DRAWN	GHIL
			CHECKED	HCD
			APPROVED	
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VERIFY SCALE: Bar Scale is one inch on original drawing. 1" scale.

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Last Saved: 7/11/2024 4:29 PM Saved By: hdawson



PAVILION FLOOR
CONTROL JOINT PLAN

01
A2.1

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



ISSUED FOR BID



GHILA
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PLANNING
INTERIOR DESIGN

FREES & NICHOLS
800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

ARCHITECTURE
PAVILION FLOOR PLAN

NO.	ISSUE	BY	DATE	F&N JOB NO.
01				SRA23985
SHEET				DATE 07/08/2024
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				CHECKED
				APPROVED
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A2.1

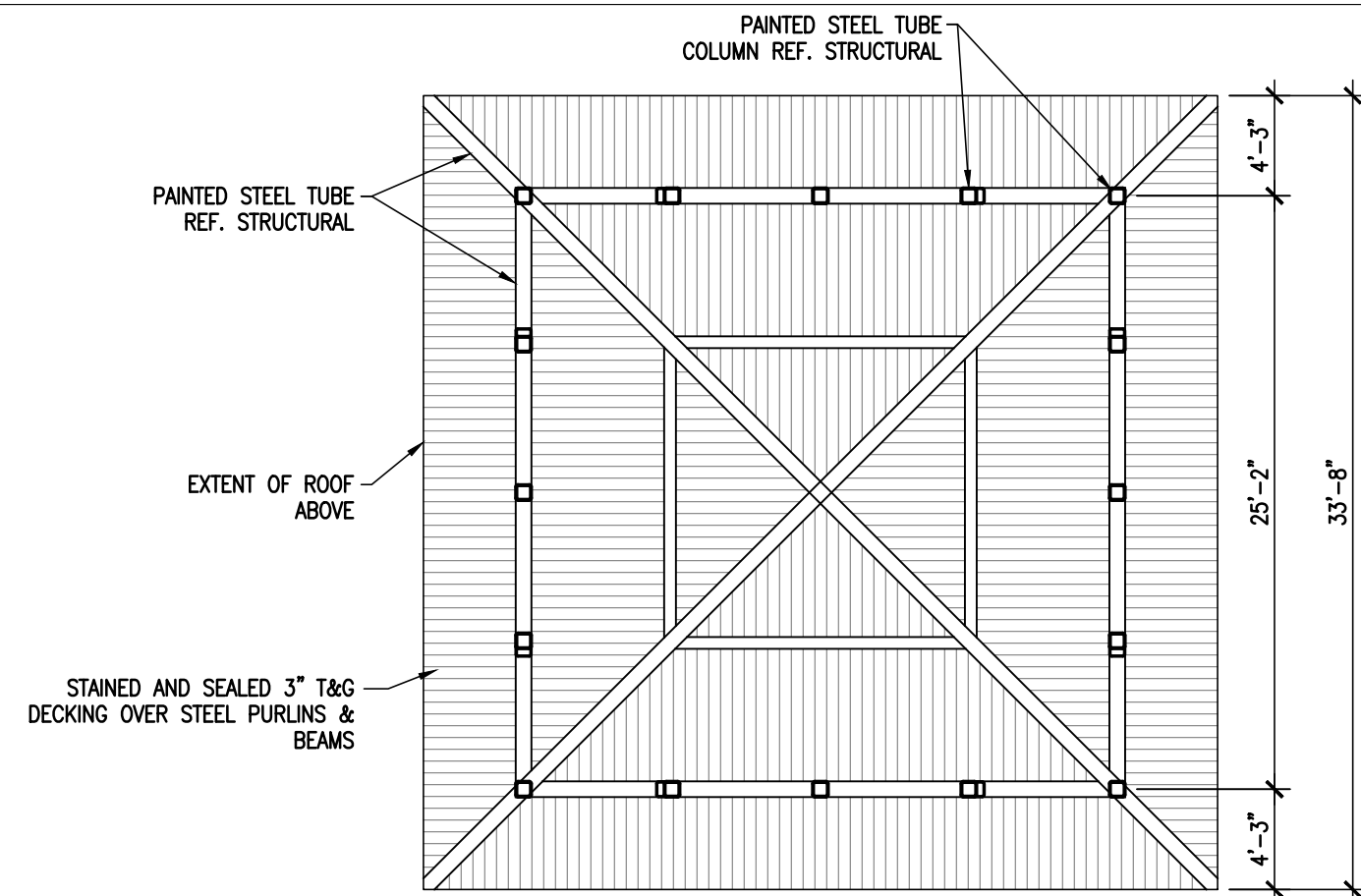
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ALL MATERIALS, FINISHES, COLORS
AND PAINT TO BE SUBMITTED TO
ARCHITECT FOR REVIEW, SELECTION,
AND/OR APPROVAL.

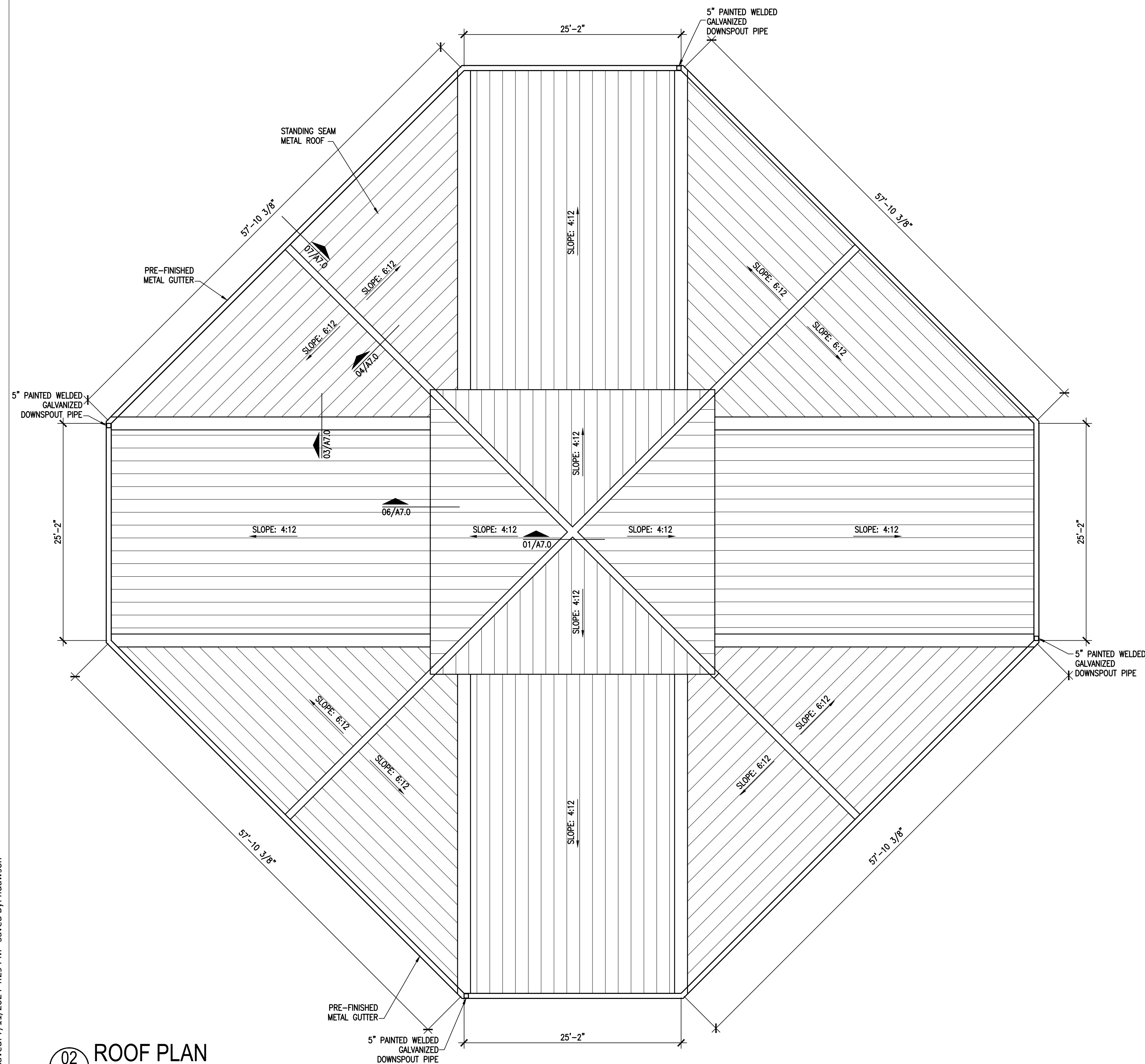
STRUCTURAL ROOF FRAMING ALTERNATE NUMBER ONE:

ALTERNATE NUMBER TWO:

THE CONTRACTOR IS TO REQUEST AN ALTERNATE STRUCTURAL HEAVY TIMBER FRAMED ROOF SYSTEM INCLUDING ALL PRIMARY FRAMED, PURLINS AND DECKING TO BE COMPLETELY ENGINEERED BY 'STRUCTURAL WOOD COMPONENTS' PO BOX 35420, HOUSTON TEXAS 77235, 281-259-0668. THE THIRD-PARTY STRUCTURAL ENGINEER IS REQUIRED TO PROVIDE FULLY ENGINEERED SIGNED AND SEALED CONSTRUCTION DOCUMENTS FOR THE ALTERNATE HEAVY TIMBER DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH THIS ALTERNATE DESIGN AND TO PROVIDE A COMPLETE FUNCTIONING AND FINELY DETAILED STRUCTURE



03 REFLECTED
A3.0 SCALE: 1/8" = 1'-0"



01 REFLECTED
A3.0 SCALE: 1/8" = 1'-0"



ISSUED FOR BID



GHILA ARCHITECTURE
PLANNING
INTERIOR DESIGN



8800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
Web - www.freese.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

ARCHITECTURE

PAVILION ROOF PLAN AND REFLECTED CEILING PLAN

SHEET	NO.	ISSUE	BY	DATE	P&N JOB NO.
					SRA23985
				DATE	07/08/2024
				DESIGNED	GHL
				DRAWN	HCD
				CHECKED	
					APPROVED

VERIFY SCALE


Bar Scale is one inch on original drawing.

0" = 1' if not one hinch on this sheet, adjust scale.

A3.0.dwg

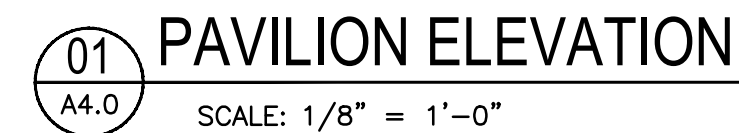
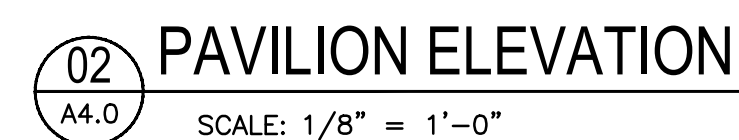
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			DATE	07/08/2024
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VERIFY SCALE

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Bar Scale is one inch on original drawing.
1 if not one hinch on this sheet, adjust
scale.

A4.0



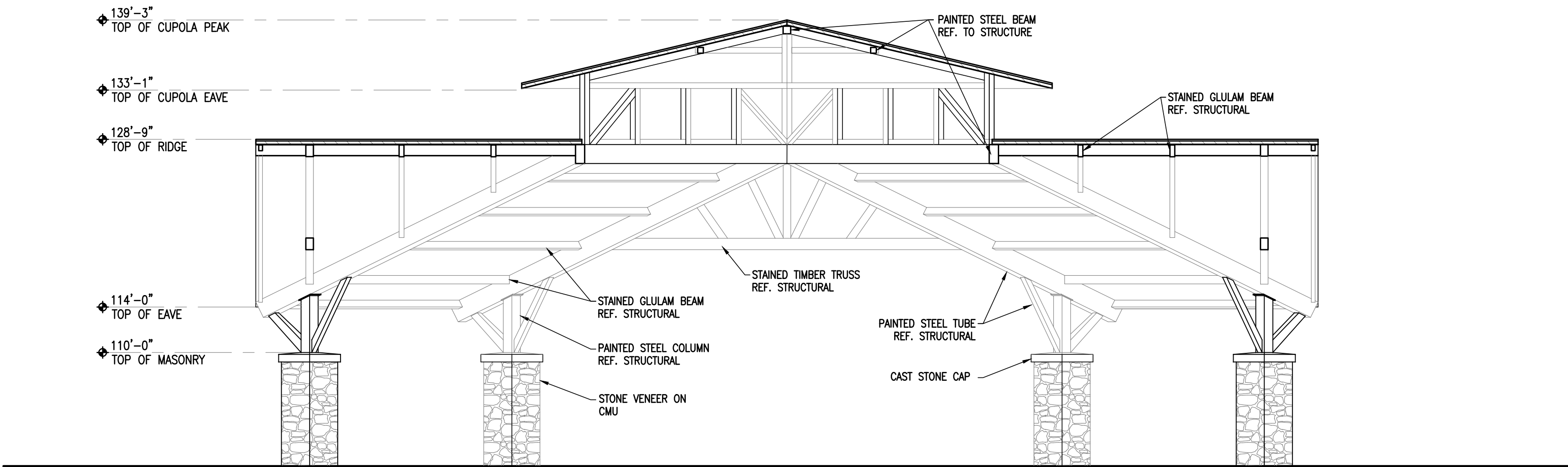
BID ALTERNATE #6

STRUCTURAL ROOF FRAMING ALTERNATE NUMBER ONE:

BASIS OF DESIGN -THE PRIMARY STEEL FRAME WITH SECONDARY GLU-LAM PURLINS WITH 3" X 6" TOUNGUE AND GROOVE STAINED WOOD DECKING AS SHOWN ON THE ARC\HITECTURAL AND STRUCTURAL CONSTRUCTION DRAWINGS DATED JULY 15, 2024.

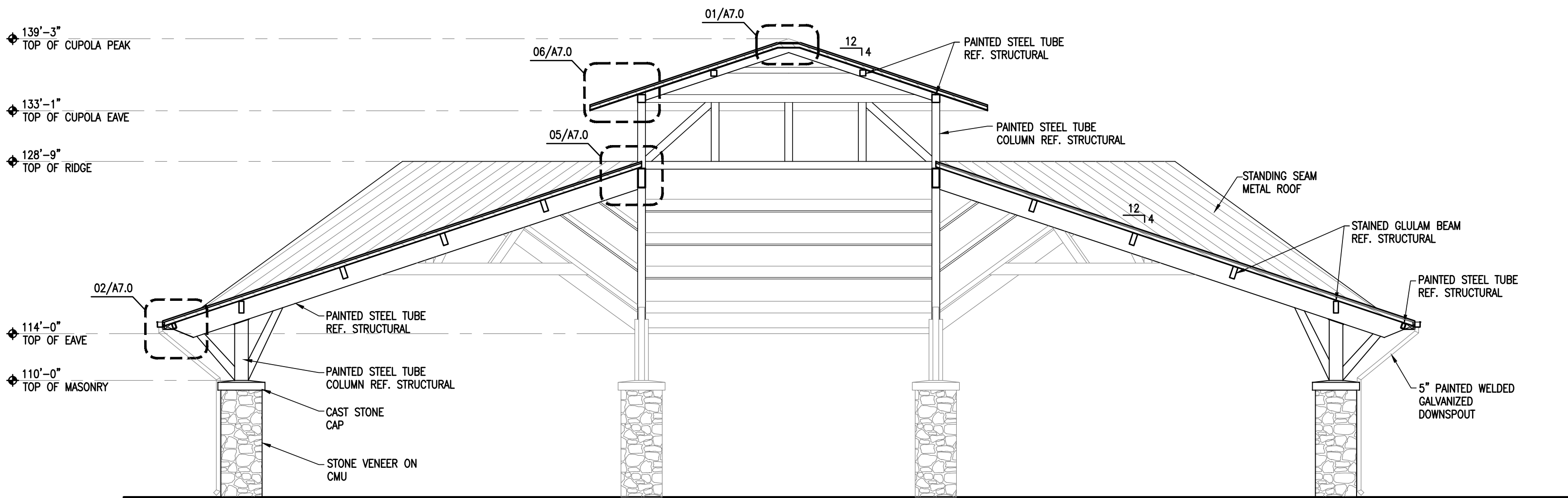
ALTERNATE NUMBER TWO:

THE CONTRACTOR IS TO REQUEST AN ALTERNATE STRUCTURAL HEAVY TIMBER FRAMED ROOF SYSTEM INCLUDING ALL PRIMARY FRAMED, PURLINS AND DECKING TO BE COMPLETELY ENGINEERED BY 'STRUCTURAL WOOD COMPONENTS' PO BOX 35420, HOUSTON TEXAS 77235, 281-259-0668. THE THIRD-PARTY STRUCTURAL ENGINEER IS REQUIRED TO PROVIDE FULLY ENGINEERED SIGNED AND SEALED CONSTRUCTION DOCUMENTS FOR THE ALTERNATE HEAVY TIMBER DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH THIS ALTERNATE DESIGN AND TO PROVIDE A COMPLETE FUNCTIONING AND FINELY DETAILED STRUCTURE



02 PAVILION SECTION

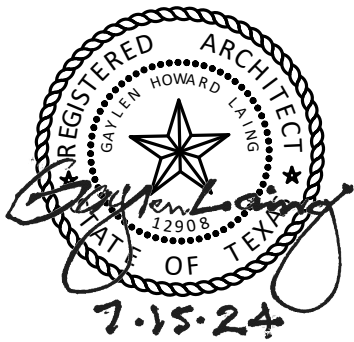
SCALE: 1/8" = 1'-0"



01 PAVILION SECTION

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

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-244



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INTERIOR DESIGN

FREEZE & NICHOLS
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Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
Web - www.freeze.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

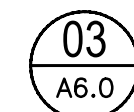
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PAVILION SECTIONS

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SHEET									
A5.0									
SEQ.									

ISSUED FOR BID

SHEET		F&N JOB NO.	
NO.	ISSUE	BY	DATE
			07/08/2024
			DESIGNED
			DRAWN
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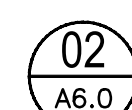
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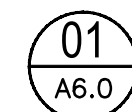
SCALE: 1/2" = 1'-0"



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

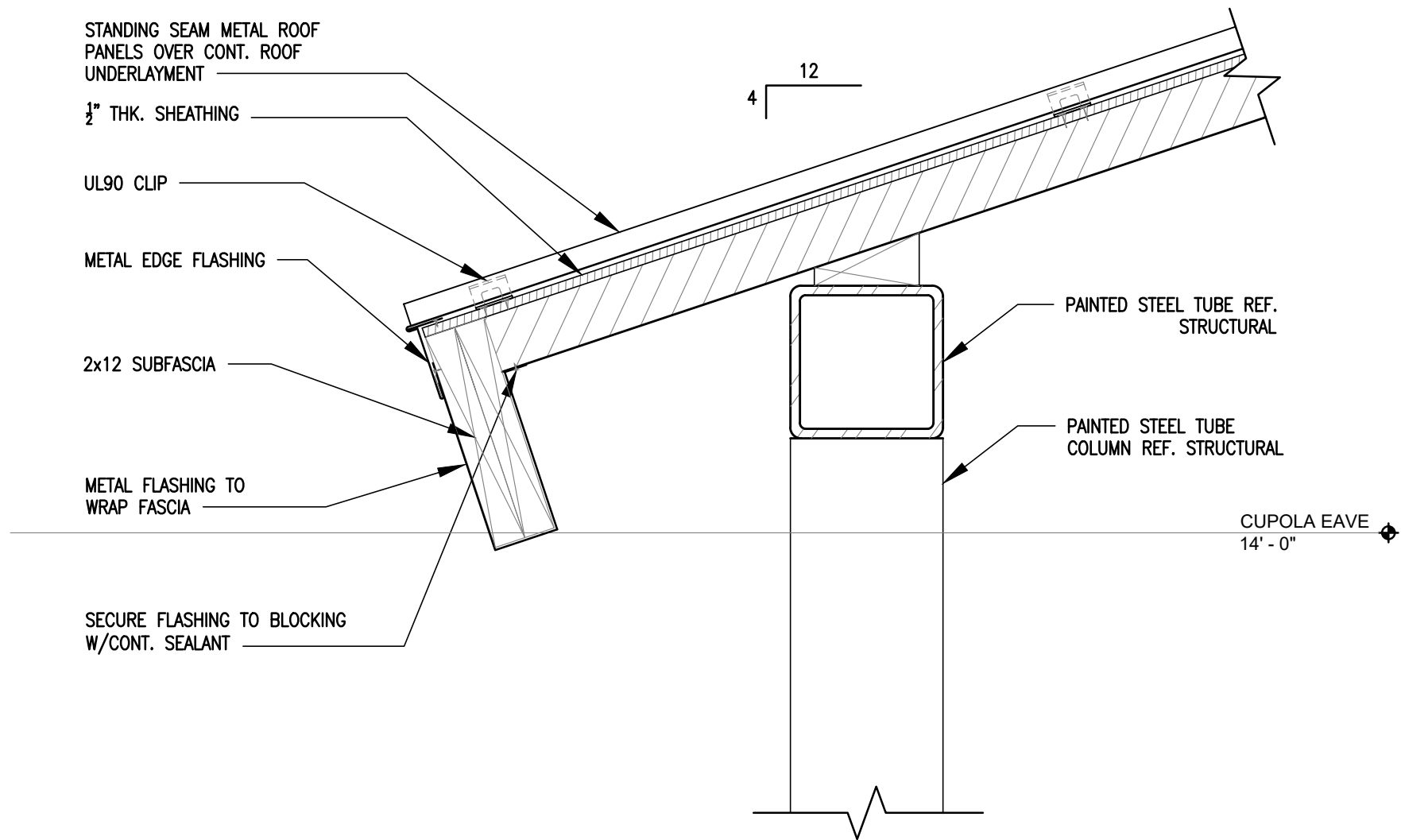


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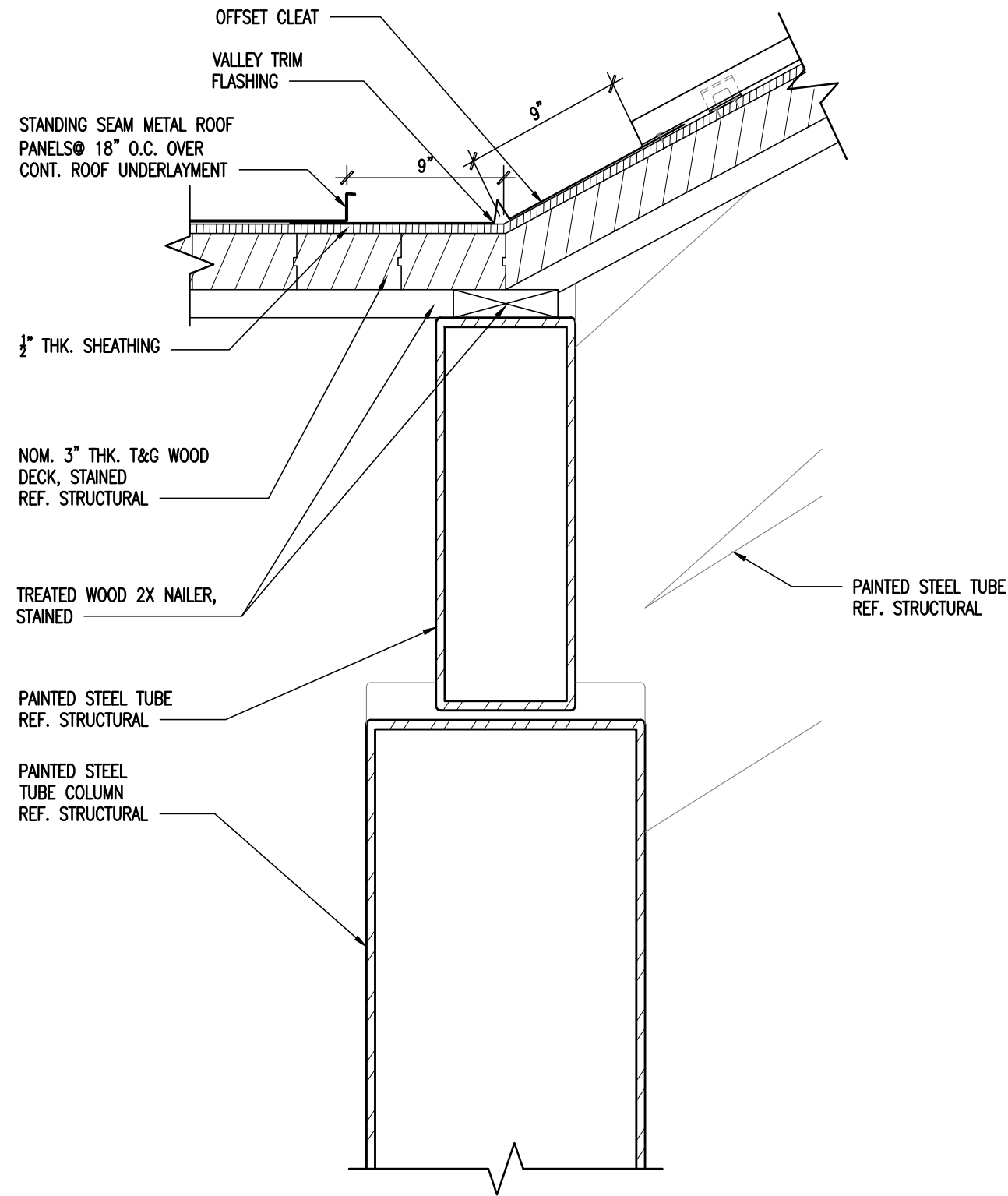


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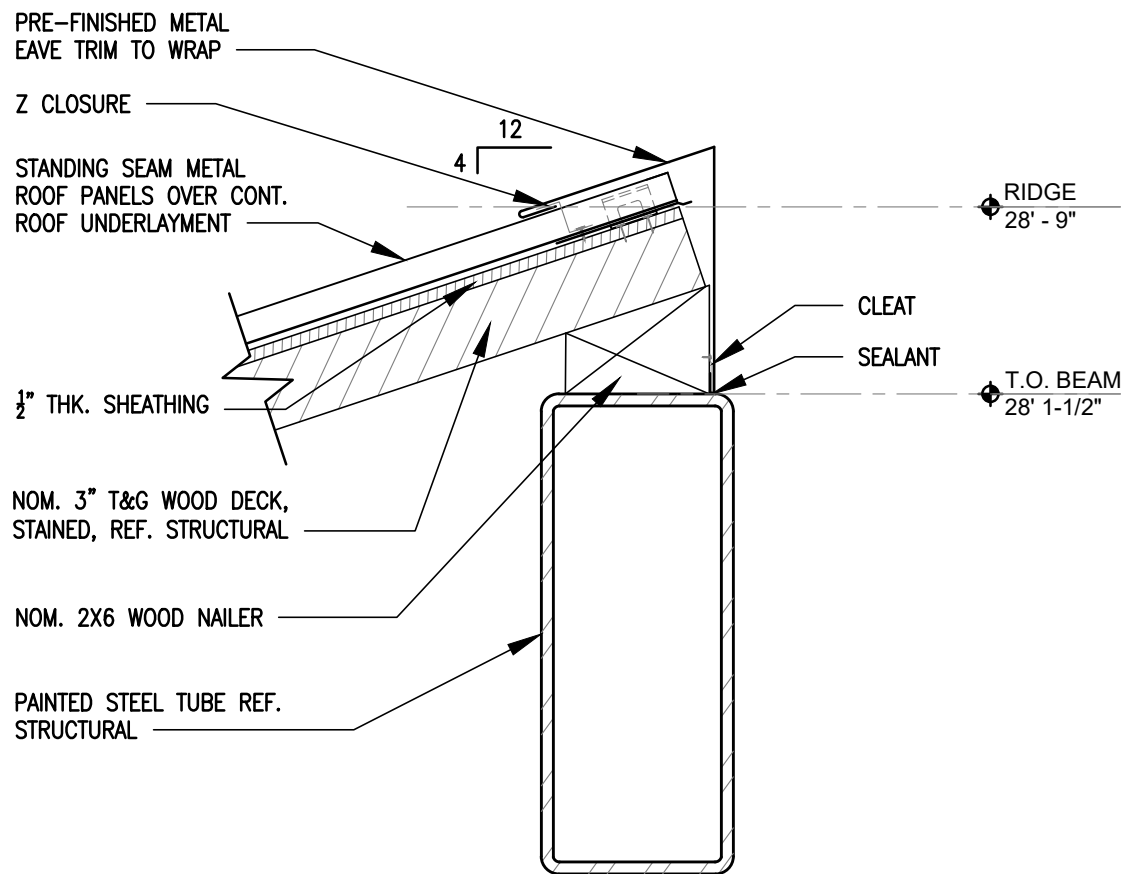
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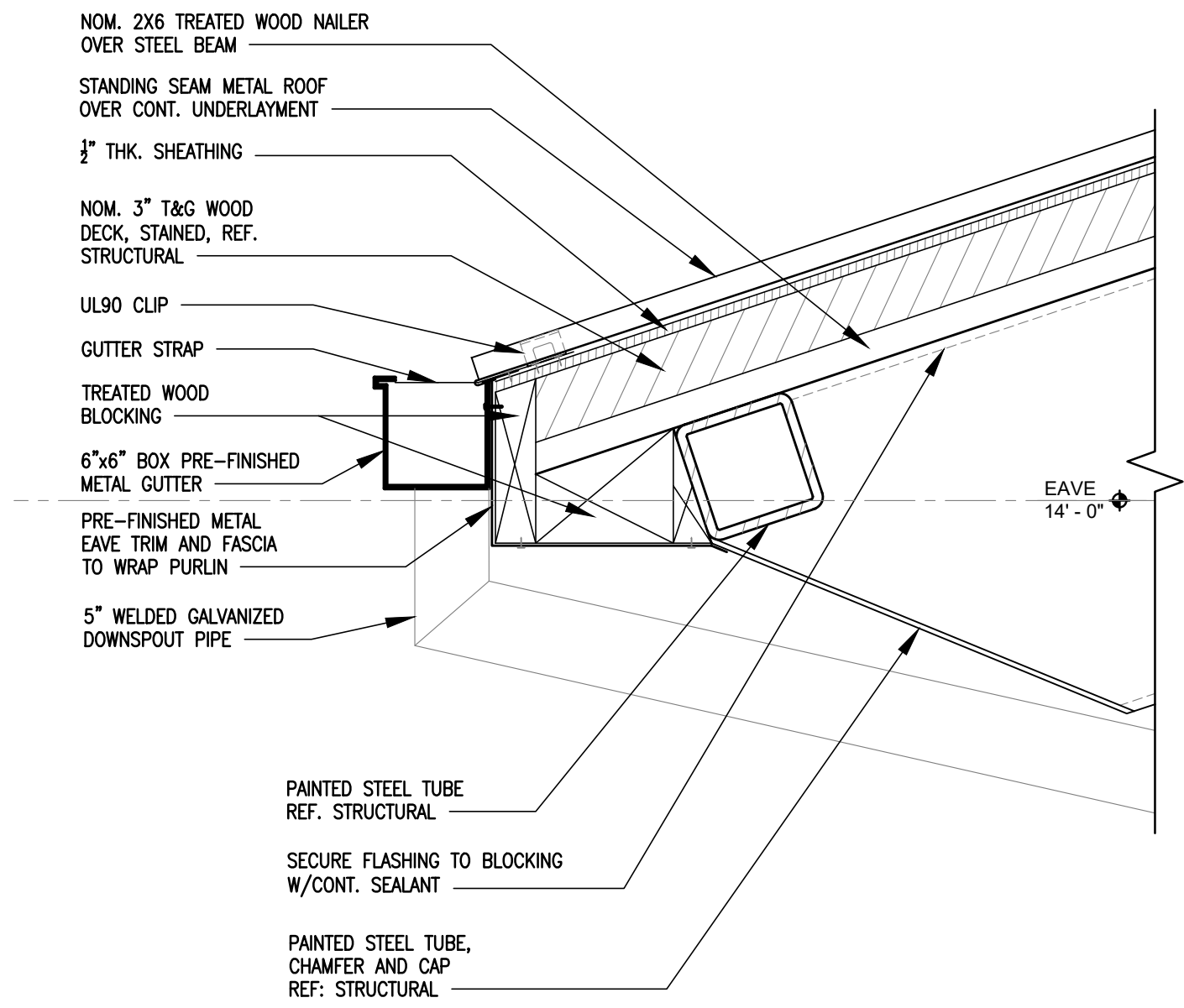
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A7.0 SCALE: 1-1/2" = 1'-0"



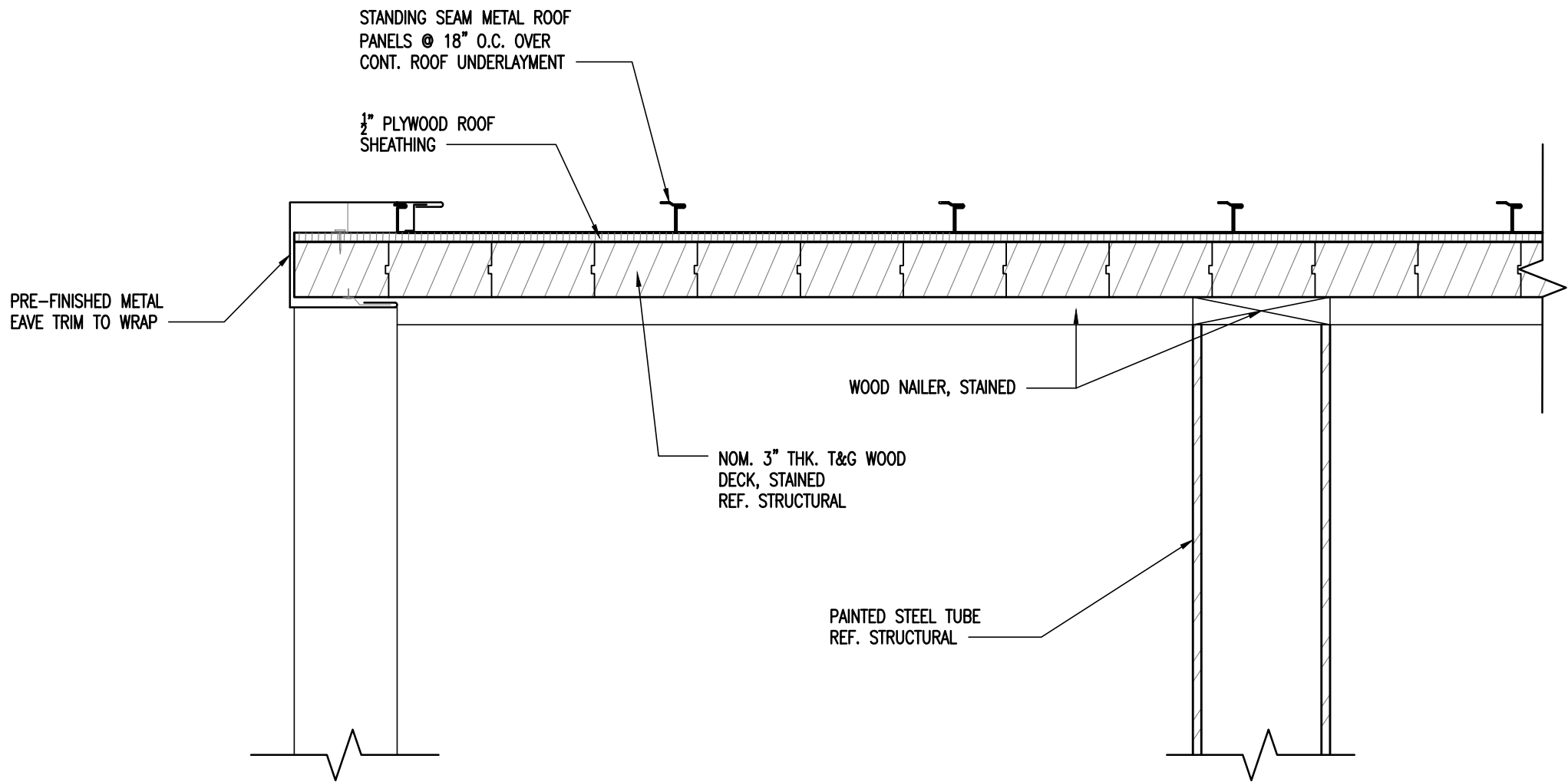
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A7.0 SCALE: 1-1/2" = 1'-0"



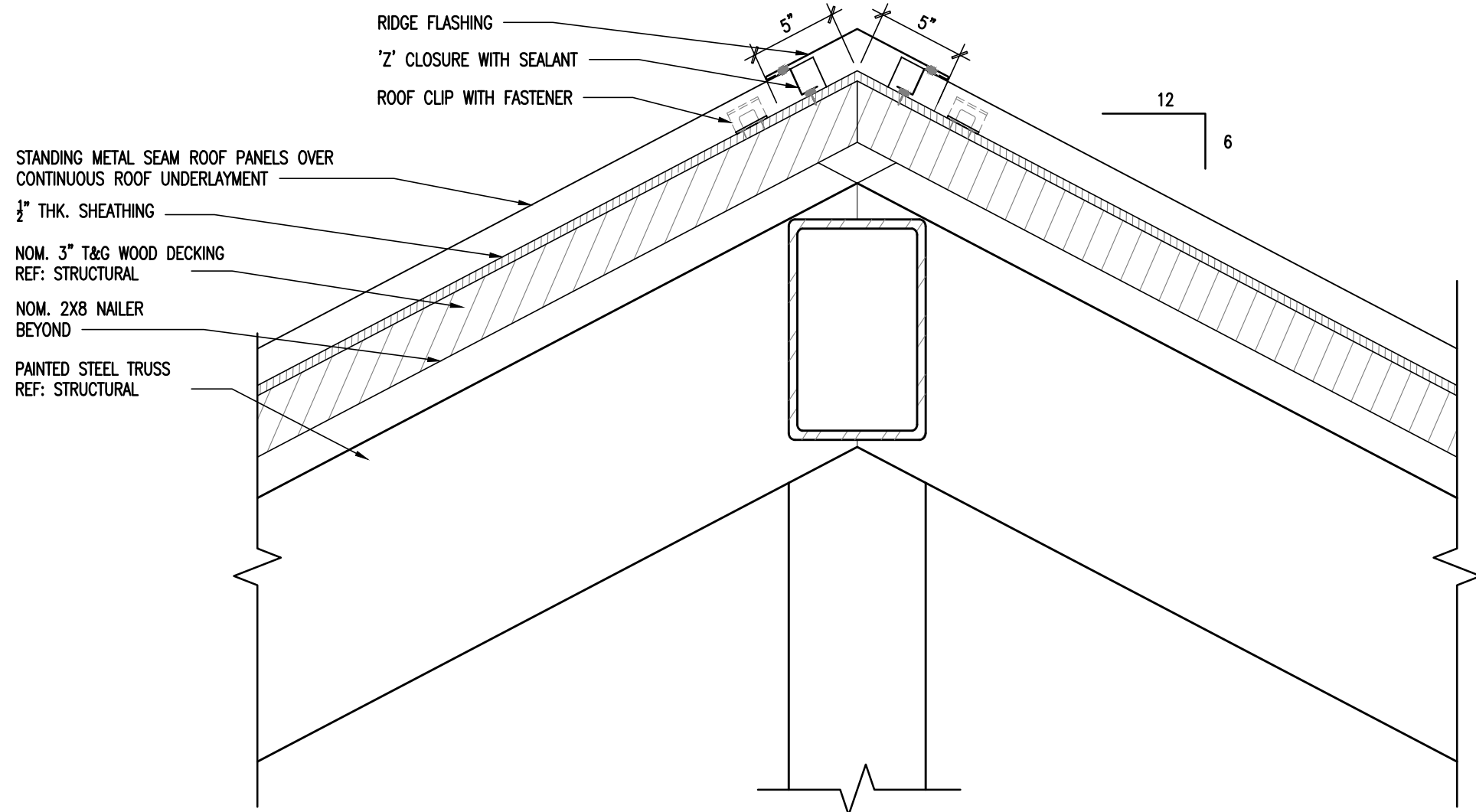
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A7.0 SCALE: 1-1/2" = 1'-0"



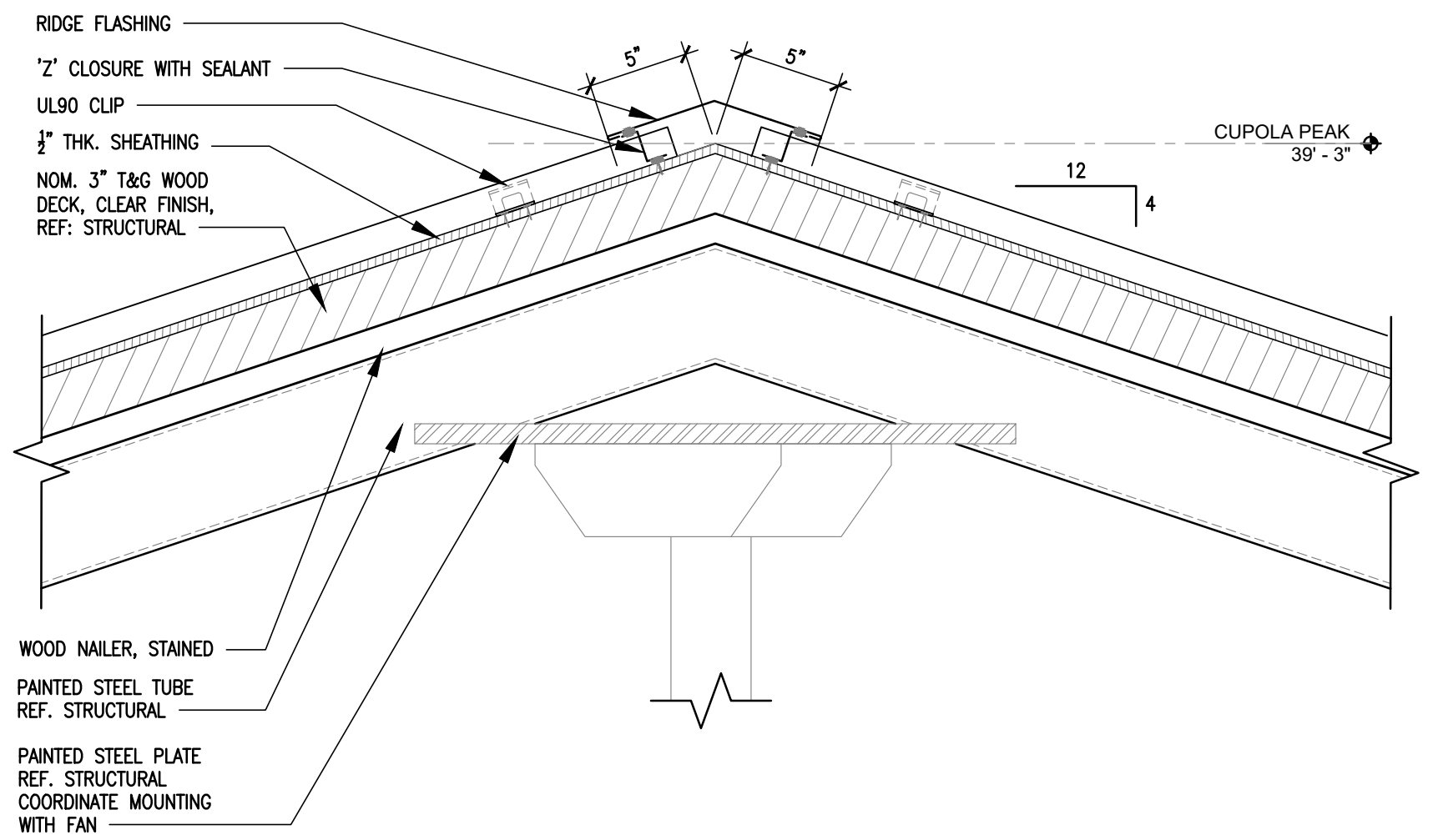
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A7.0 SCALE: 1-1/2" = 1'-0"



07 EAVE AT RIDGE
A7.0 SCALE: 1-1/2" = 1'-0"



04 RIDGE DETAIL
A7.0 SCALE: 1-1/2" = 1'-0"



01 ROOF PEAK DETAIL
A7.0 SCALE: 1-1/2" = 1'-0"

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Texas Registered Engineering Firm F-244



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Web - www.freese.com

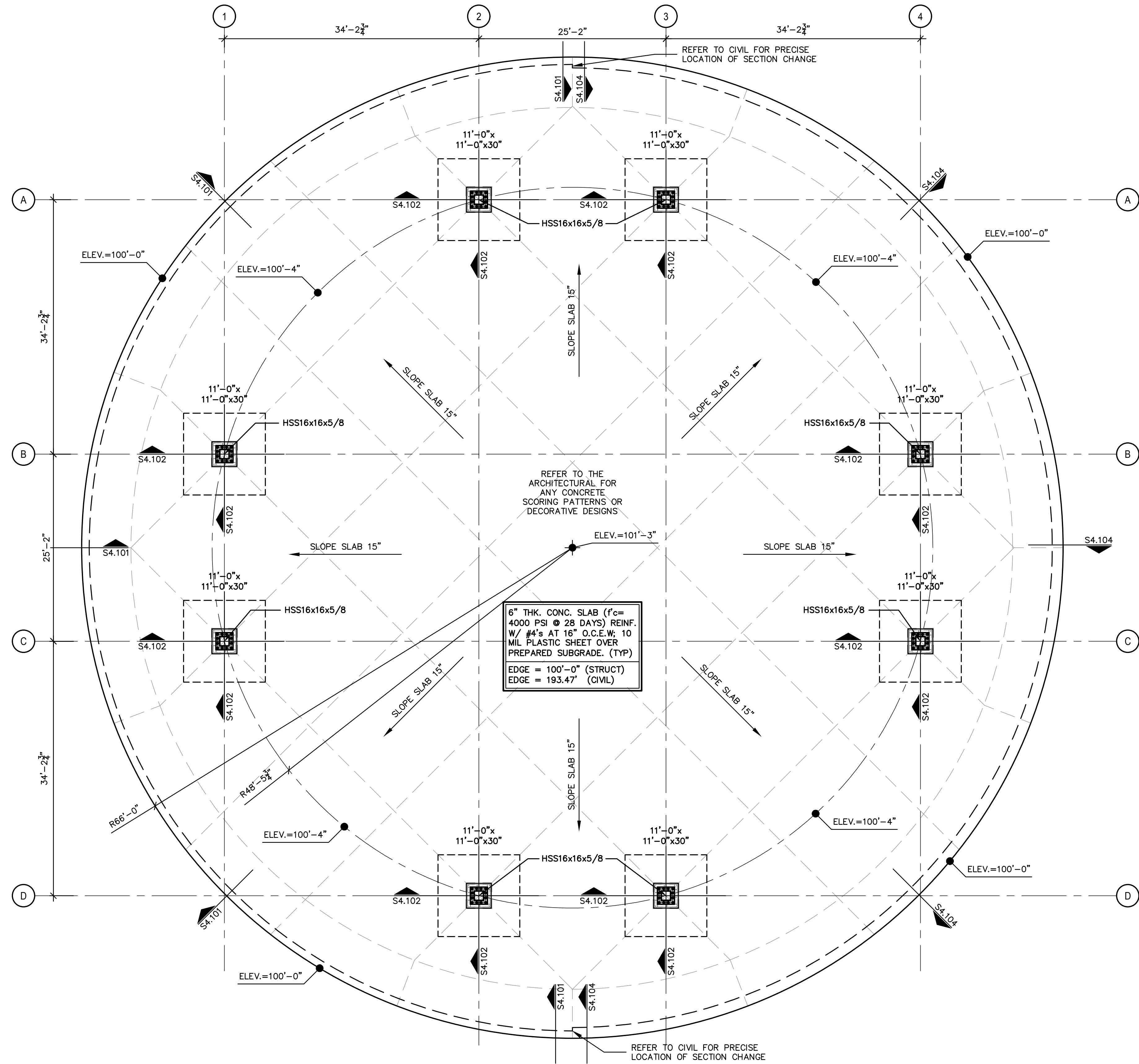
SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

ARCHITECTURE
PAVILION SECTION AND DETAILS

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			07/08/2024						
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SHEET A7.0									
SEQ.									

ISSUED FOR BID

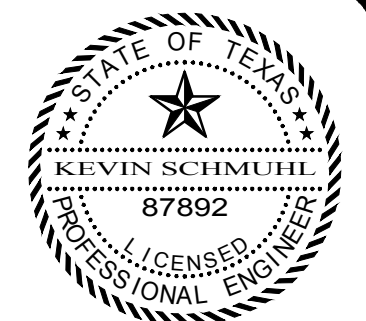
ISSUED FOR BID



S2.101 FOUNDATION PLAN AT PAVILION
1/8" = 1'-0"

SECTION KEY

S1.101
DETAIL NUMBER
SHEET NUMBER



7-17-24
Kevin W. Schmuhl
STRUCTURAL
CONSULTANTS
120 River Oaks Drive Suite 100 • Southlake, TX 76092
Phone (817) 337-3788 • Texas Firm No. F-001
www.kwsstructural.com • Email: kwschmuhl@kws.net

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Texas Registered Engineering Firm F-2144
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& NICHOLS
800 N. Shoreline Blvd., Suite 1600
Corpus Christi, Texas 78401-3700
Phone - (361) 361-6300
www.freese.com

SABINE RIVER AUTHORITY
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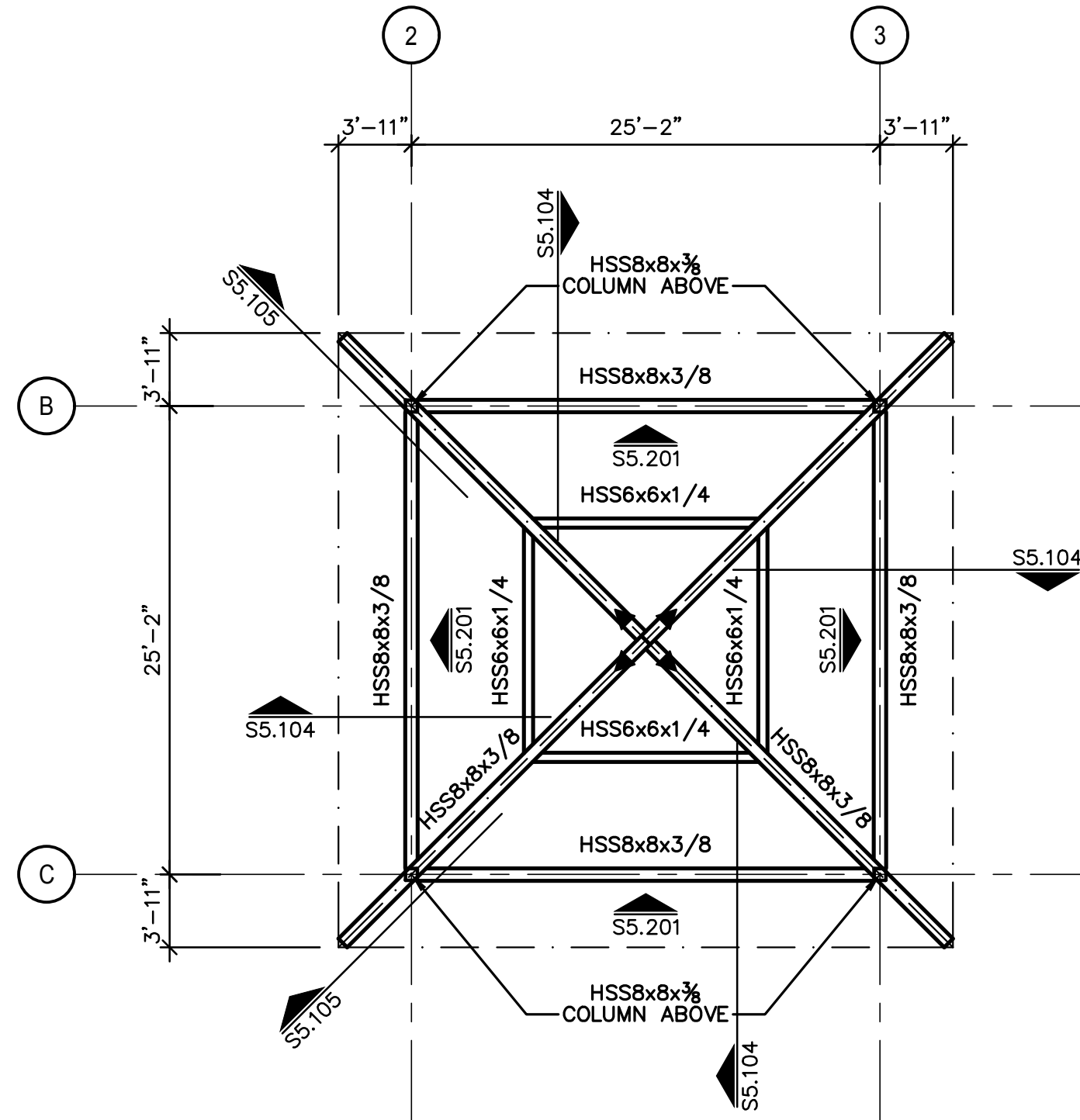
STRUCTURAL
FOUNDATION PLAN AT PAVILION

NO.	ISSUE	DATE	BY	DATE	FOR JOB NO.	SRA23985
					DATE	07/17/2024
					DESIGNED	
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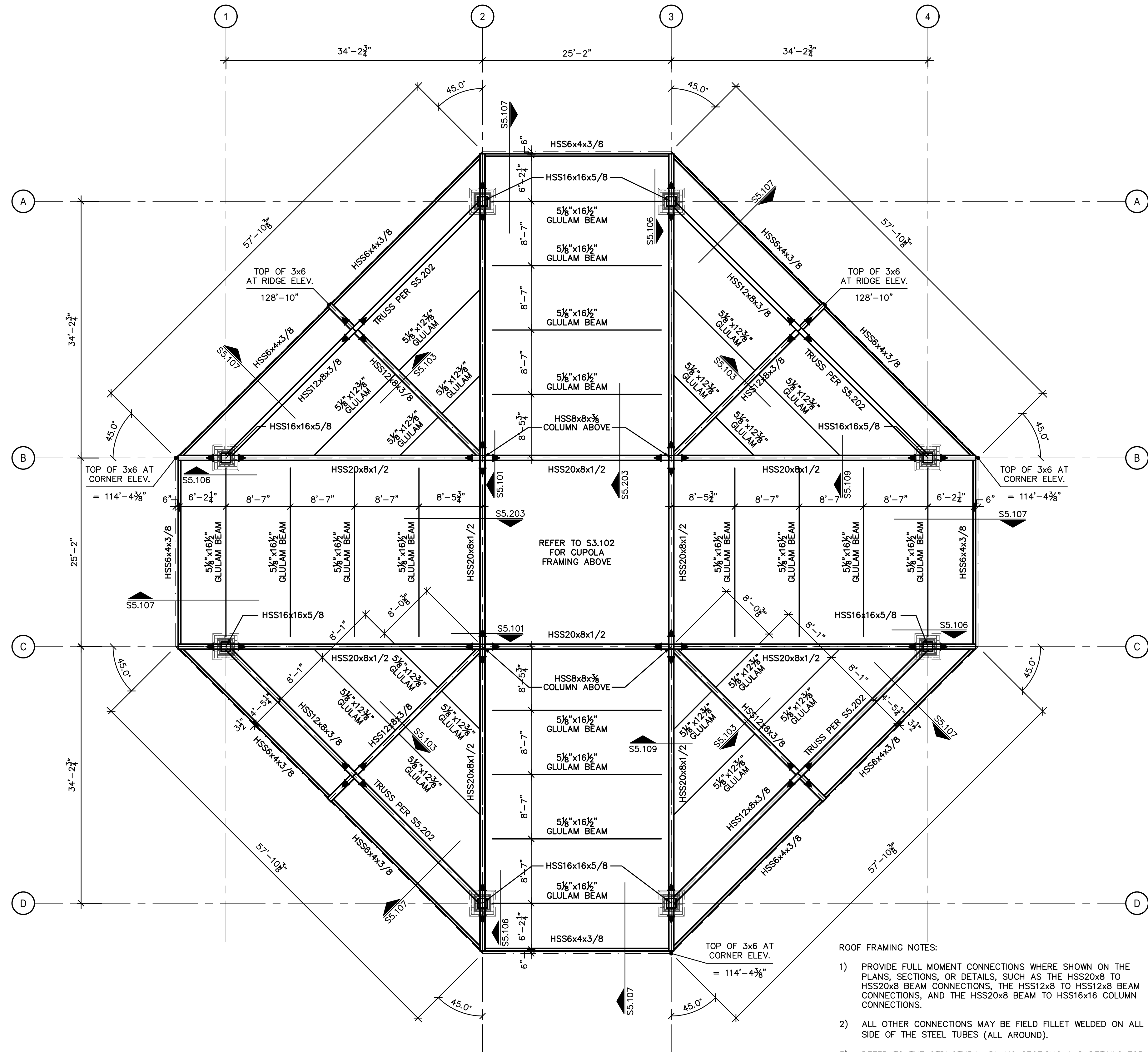
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drawing. If not one inch on
this sheet, adjust scale.

SHEET
S2.1
SEQ.

ISSUED FOR BID



S3.102 FRAMING PLAN AT CUPOLA
1/8" = 1'-0"

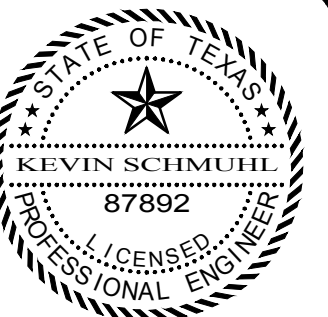


S3.101 FRAMING PLAN AT PAVILION
1/8" = 1'-0"

S1.101
DETAIL NUMBER
SHEET NUMBER
SECTION KEY

- ROOF FRAMING NOTES:
- 1) PROVIDE FULL MOMENT CONNECTIONS WHERE SHOWN ON THE PLANS, SECTIONS, OR DETAILS, SUCH AS THE HSS20x8 TO HSS20x8 BEAM CONNECTIONS, THE HSS12x8 TO HSS12x8 BEAM CONNECTIONS, AND THE HSS20x8 BEAM TO HSS16x16 COLUMN CONNECTIONS.
 - 2) ALL OTHER CONNECTIONS MAY BE FIELD FILLET WELDED ON ALL SIDE OF THE STEEL TUBES (ALL AROUND).
 - 3) REFER TO THE STRUCTURAL PLANS SECTIONS AND DETAILS FOR THE TOP OF STEEL ELEVATIONS.
 - 4) ROOF DECKING SHALL CONSIST OF SOUTHERN PINE 3x6 TONGUE AND GROOVE PLANKS. START LAYOUTS AT EXTERIOR EDGES AND EXTEND PLANKS OVER AT LEAST TWO SPANS, WHERE POSSIBLE. STAIN AND TREAT ALL WOOD MEMBERS PER ARCHITECT.

W18x65
MOMENT CONNECTION WHERE SHOWN
BEAM SIZE PER PLAN
SIMPLE CONNECTION PER STR. DETAILS IF MOMENT NOT SHOWN
COLUMN SIZE PER PLAN



7-17-24
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Phone (817) 337-2788 • Text (817) 337-2788 • Email: kwschmuhl@kwschmuhl.com

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INTERIOR DESIGN
817.801.7200
www.ghta-inc.com

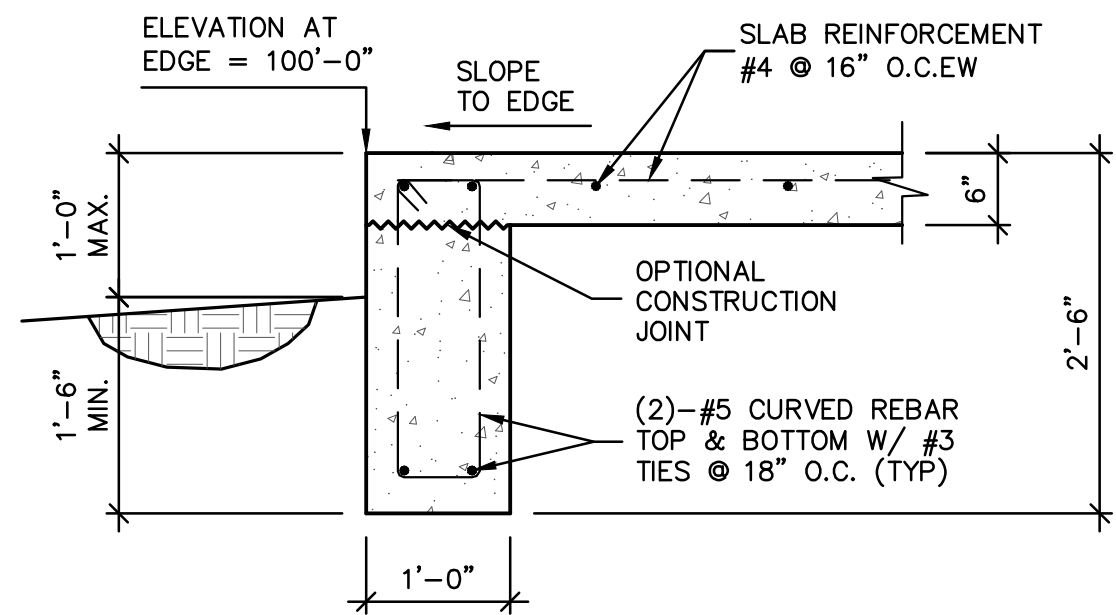
Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144
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NICHOLS
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Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
WWW.FREES-NICHOLS.COM

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA
STRUCTURAL
FRAMING PLAN AT PAVILION

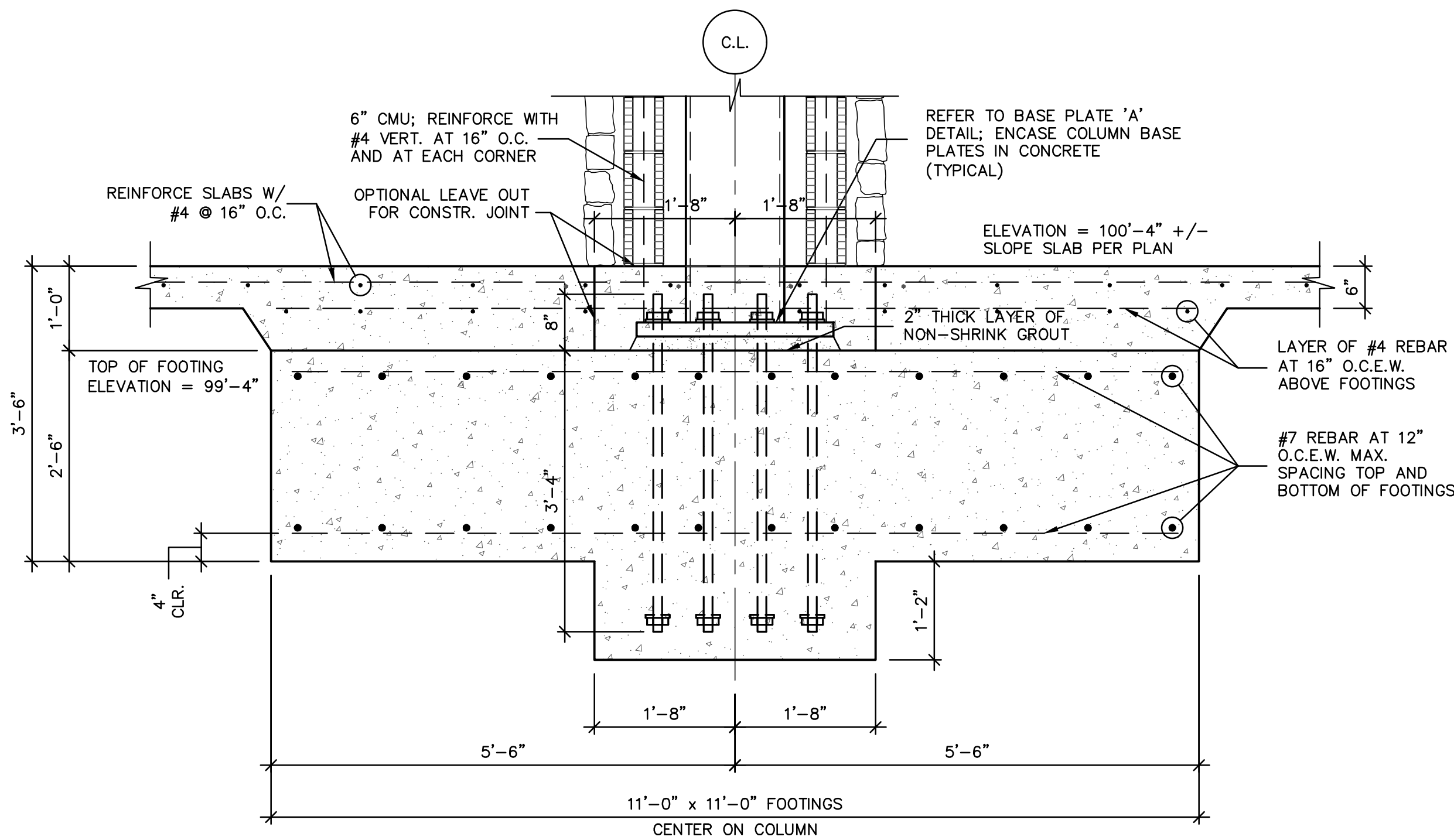
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S3.1

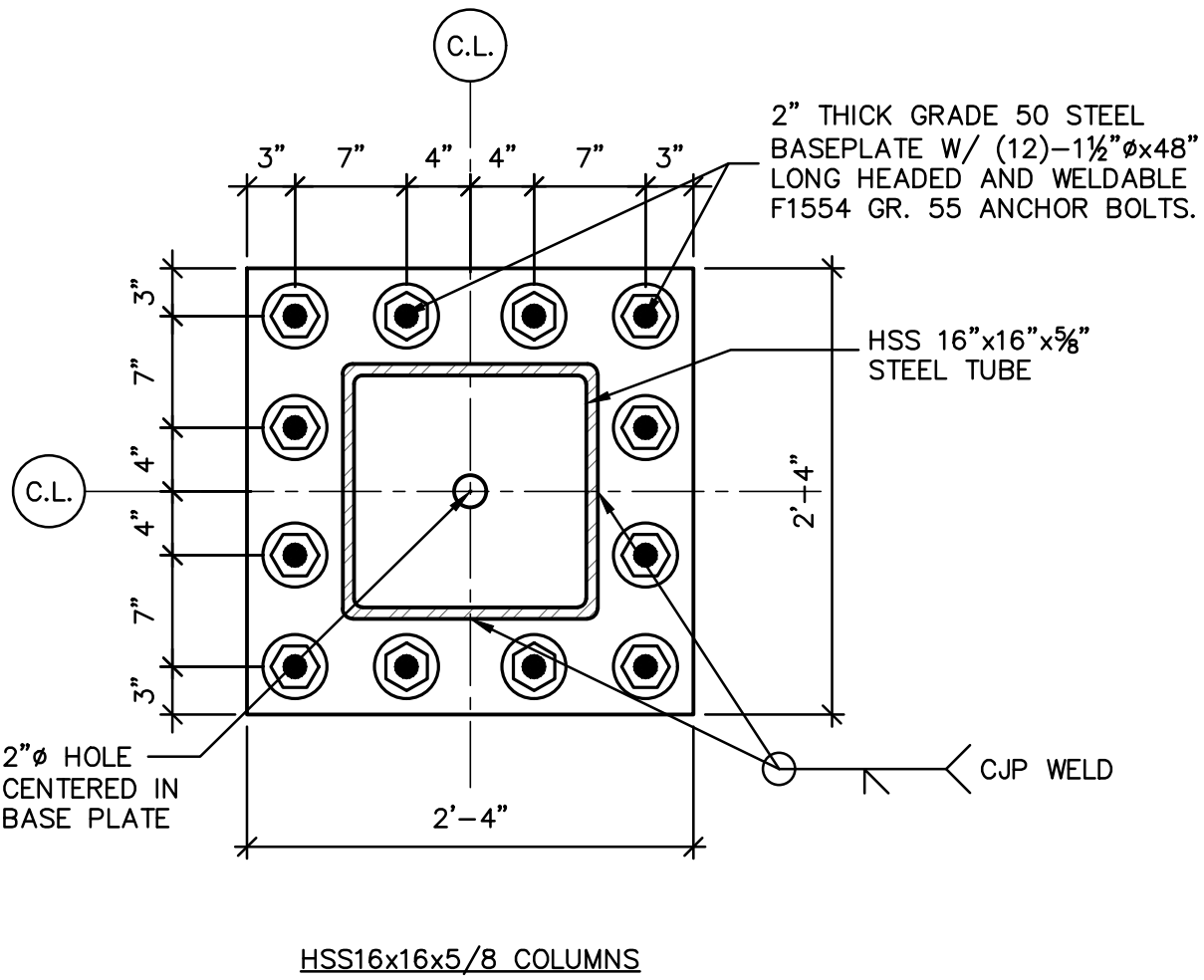
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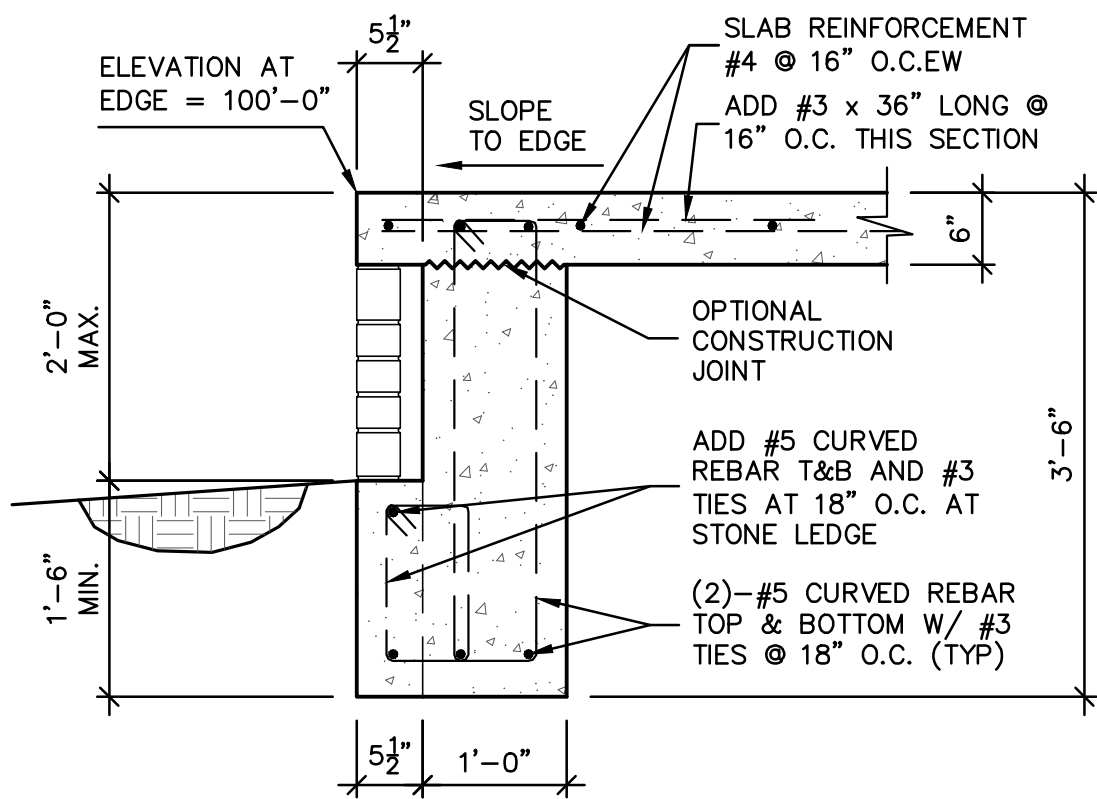
S4.101 SECTION AT FOUNDATION
3/4" = 1'-0"



S4.102 COLUMN FOOTING AT PAVILION
3/4" = 1'-0"



S4.103 BASEPLATE 'A'
1" = 1'-0"



S4.104 SECTION AT FOUNDATION
3/4" = 1'-0"



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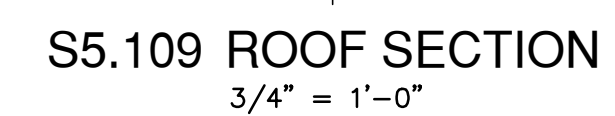
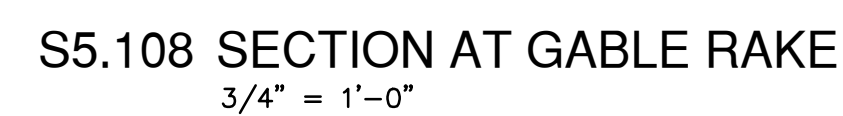
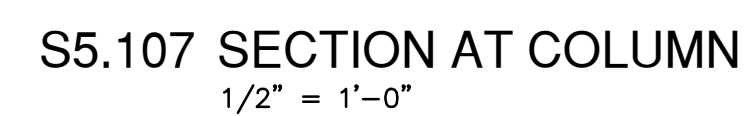
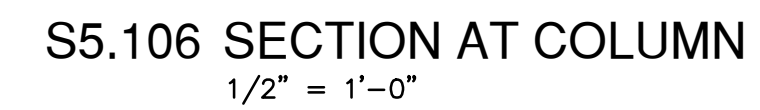
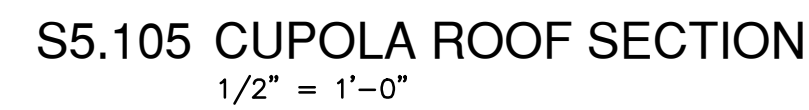
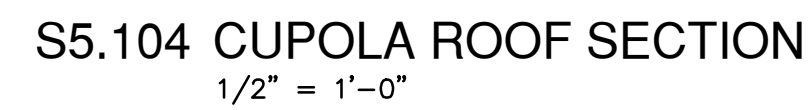
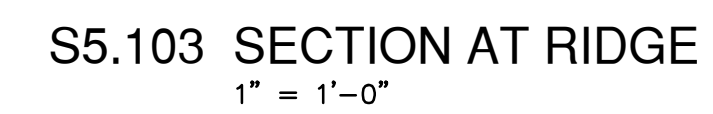
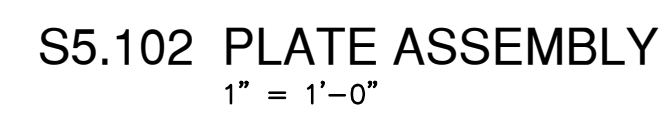
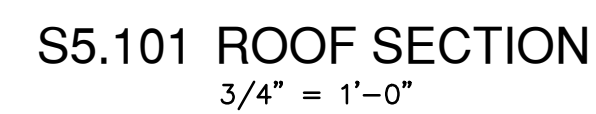
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& NICHOLS**
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Web www.freese.com

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA
STRUCTURAL
FOUNDATION DETAILS AT PAVILION

NO.	ISSUE	BY	DATE	FXN JOB NO.	DATE	DESIGNED	DRAWN	REVIEWED	CHECKED	FILE NAME
				SRA23985	07/17/2024					
VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.										

SHEET
S4.1
SEQ.

ISSUED FOR BID



SABINETOWN RECREATION AREA

FRAMING SECTIONS AT PAVILION

NO.	ISSUE	BT	DATE	SHAZ3985	PLAN JOB NO.
				DATE	07/17/2024
				DESIGNED	
				DRAWN	
				REVISED	
				CHECKED	

VERIFY SCALE Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.

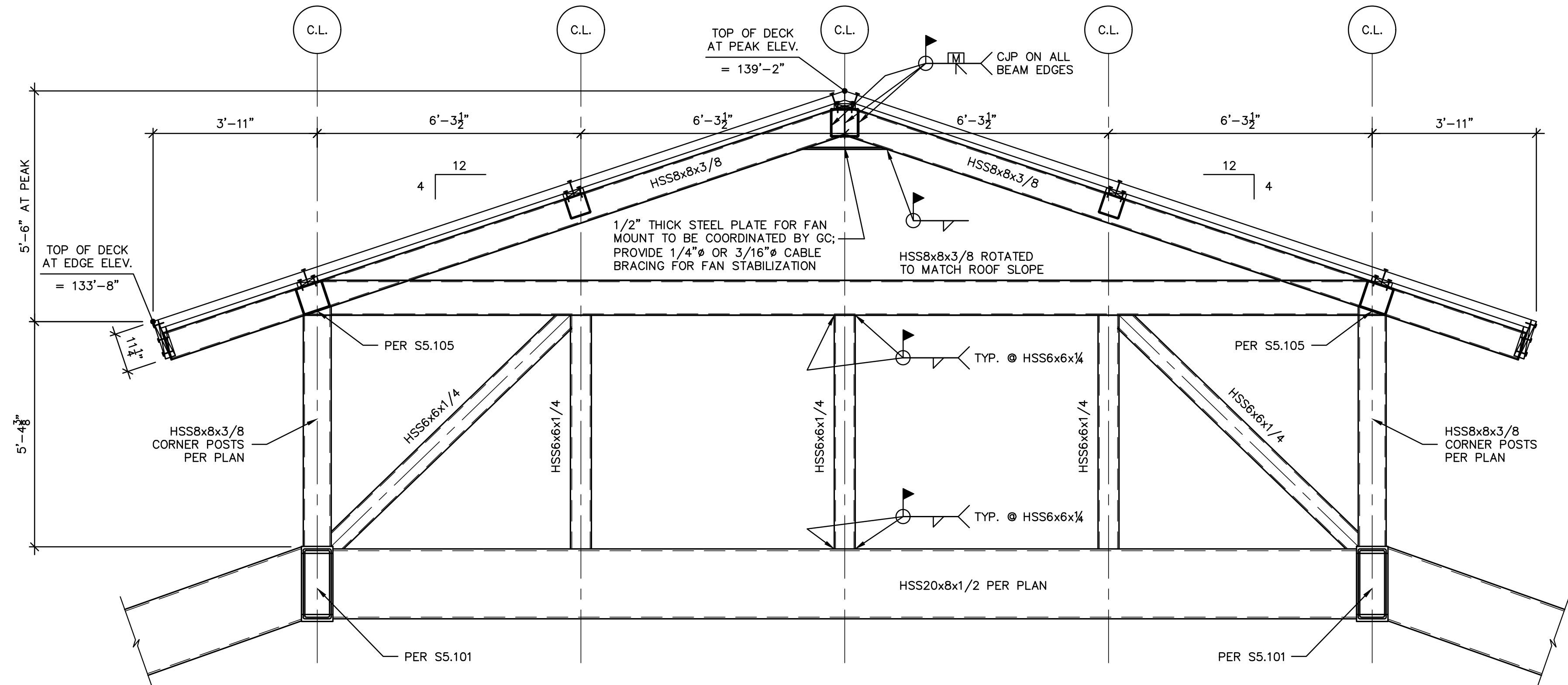
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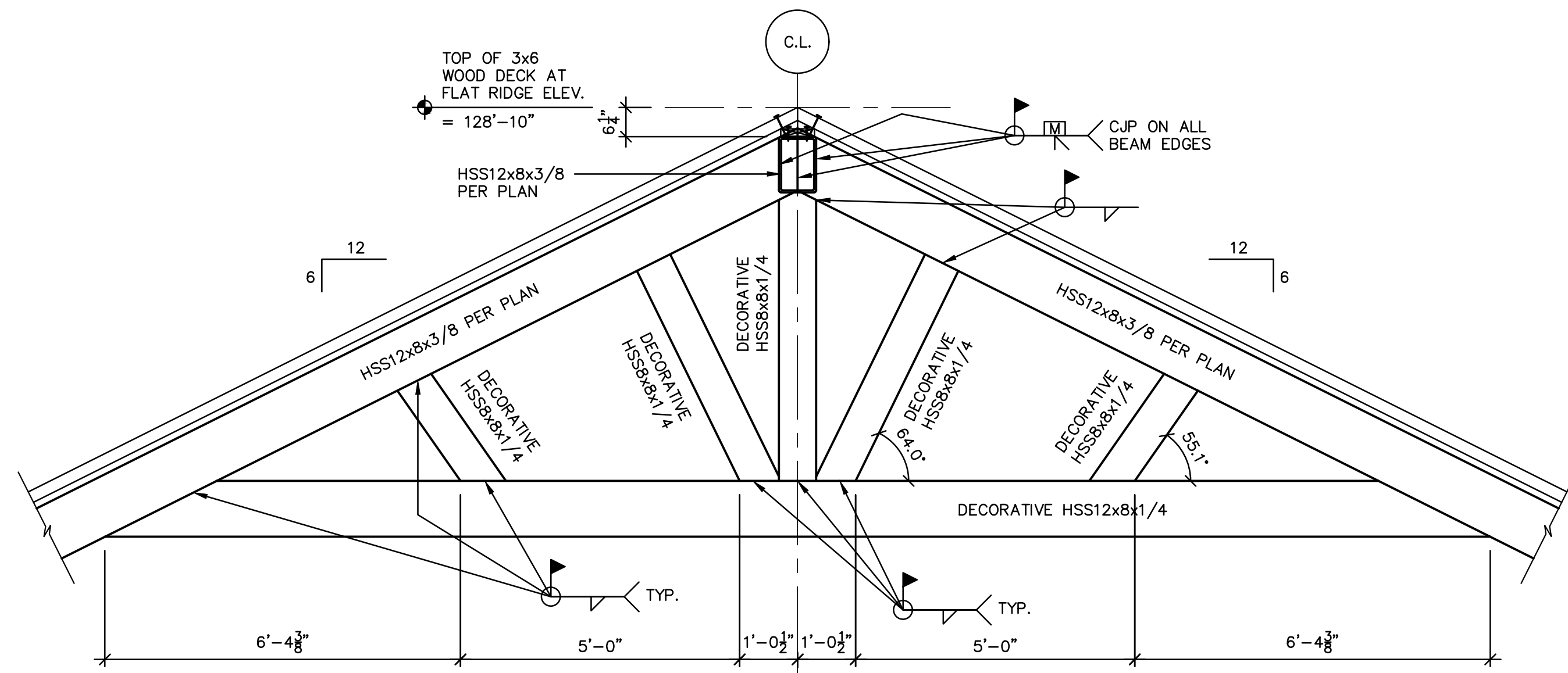
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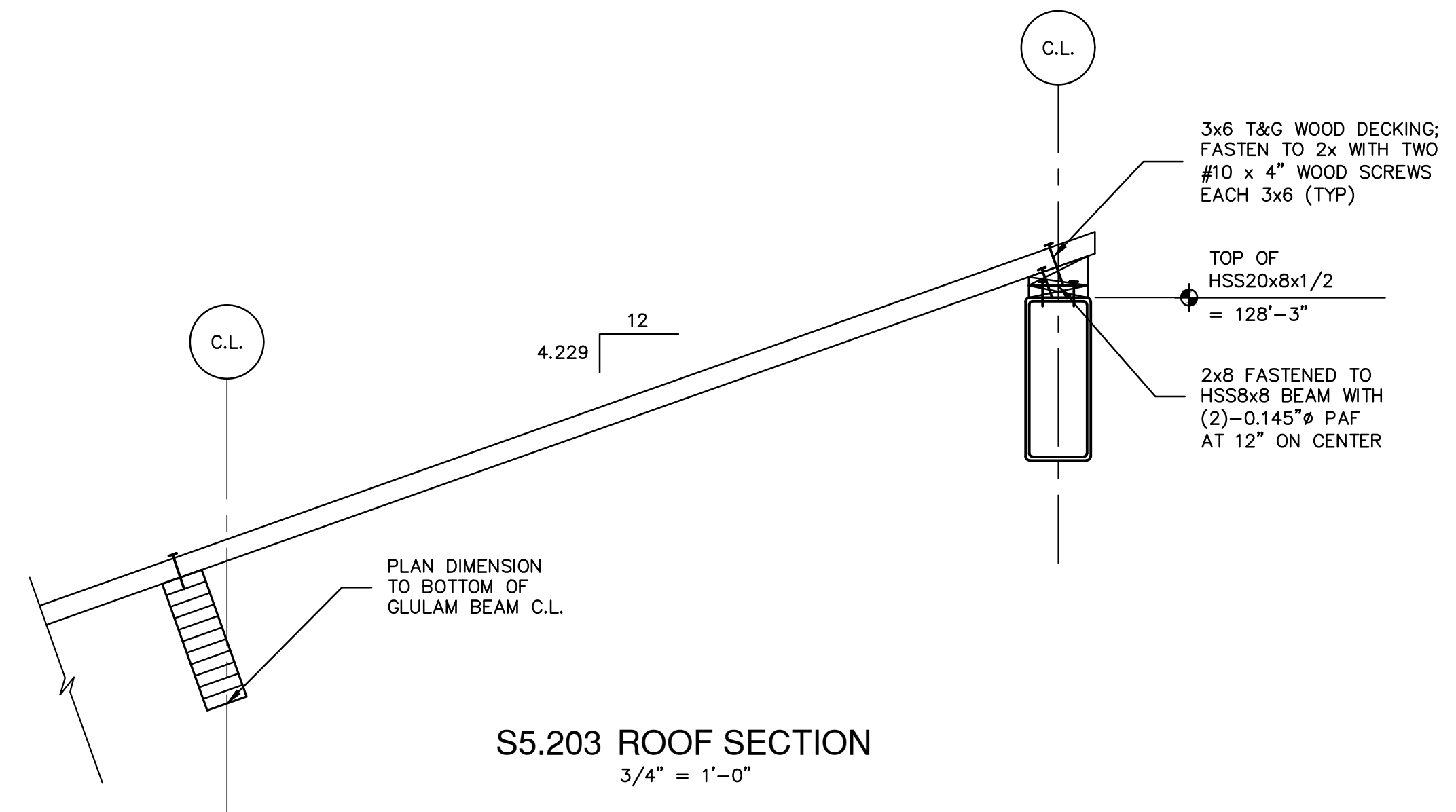
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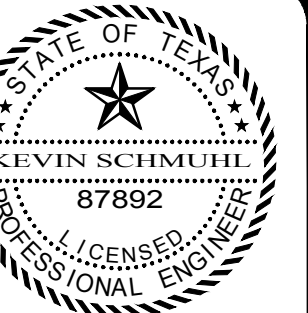
S5.201 CUPOLA ROOF ELEVATION
1/2" = 1'-0"



S5.202 DECORATIVE STEEL BEAM TRUSS
1/2" = 1'-0"



S5.203 ROOF SECTION
3/4" = 1'-0"



7-17-24
Kevin W. Schumel

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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

STRUCTURAL
FRAMING SECTIONS AT PAVILION

NO.	ISSUE	DATE	BY	DATE	JOB NO.	FILE NAME
					SRA23985	
					DATE 07/17/2024	
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					DRAWN	
					REVIEWED	
					CHECKED	

VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

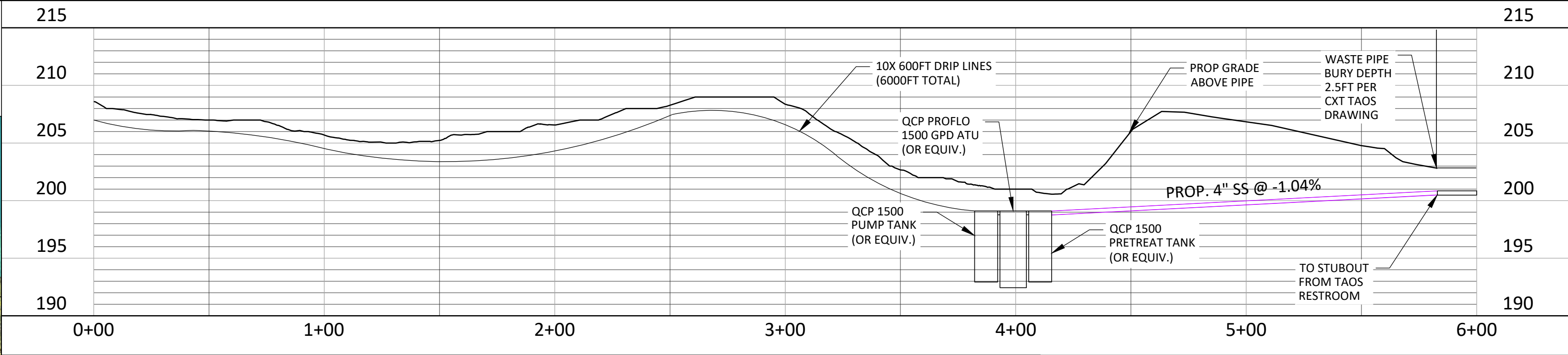
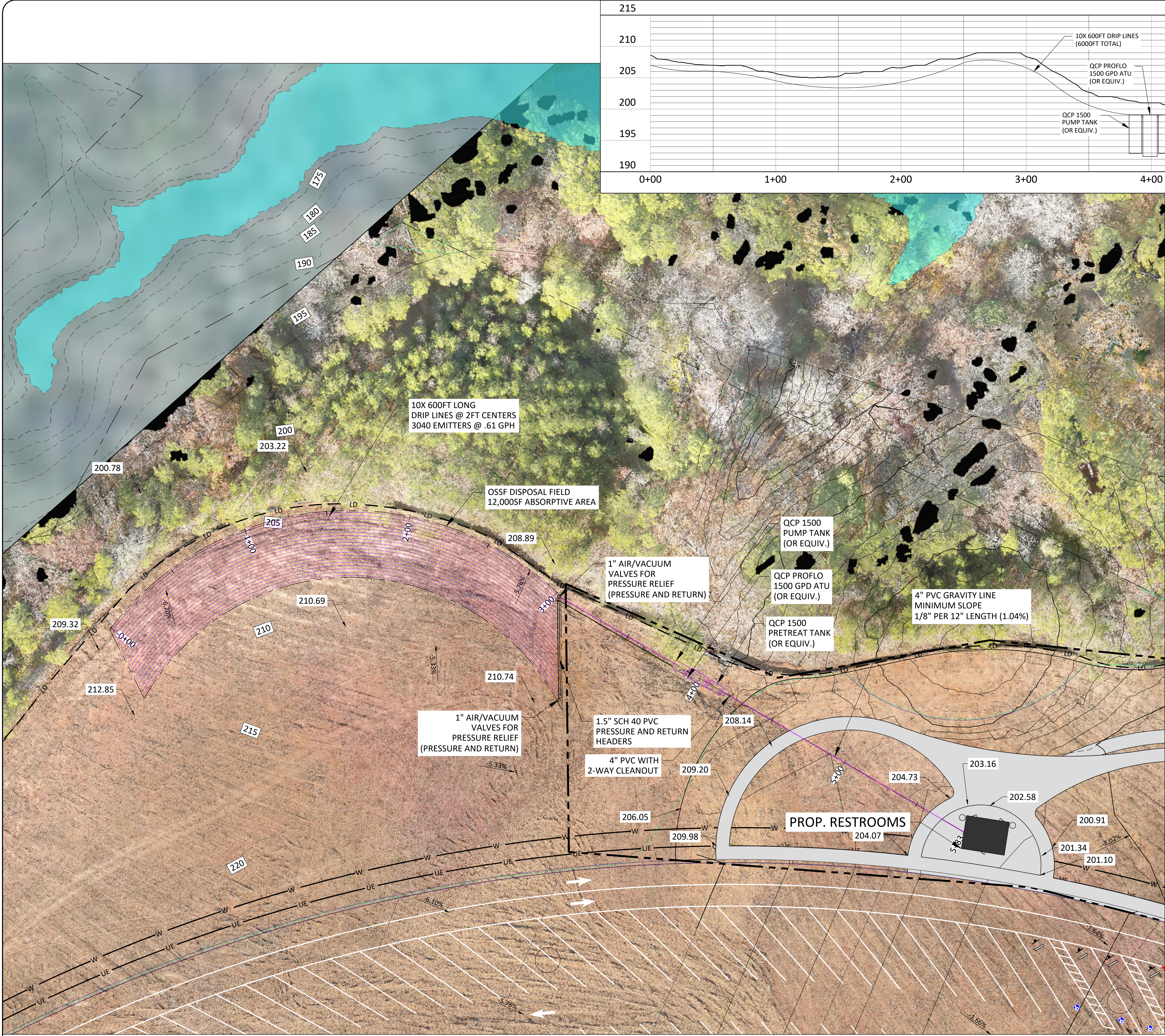
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S5.2

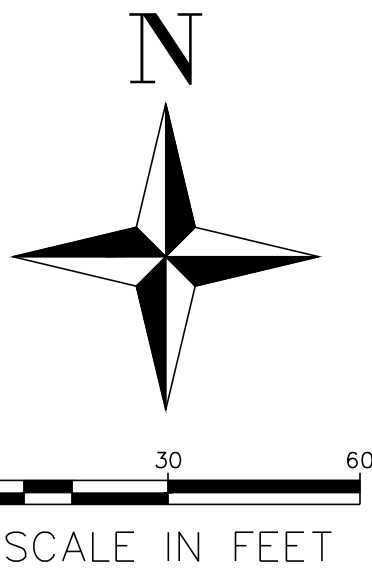
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- GENERAL NOTES:
- Design Effluent Flow (Qdesign) of 960 gal/day per day.
 - Limits of Treated Effluent disposal areas are a minimum of 5' from property lines and 100' from water wells.
 - ALL Supply Lines and Return Lines shall be 1.5" SCH 40 PVC Pressure Rated Pipe (Purple in Color).
 - All Gravity Lines shall be 4" PVC (SDR-35) with watertight gasket joints and minimum slopes of 1/8" per 1 foot of length.
 - That portion of any Gravity Line or Supply Line that passes beneath any roadway shall be "sleeved" in a large diameter SCH 40 PVC pipe for the crossing distance plus five feet, either side.
 - That portion of any Gravity Line or Supply Line that passes within 10' of a water line, the waterline shall be "sleeved" in a large diameter SCH 40 PVC pipe for the crossing distance plus ten feet, either side.
 - Coordinate building and site dimensions in field with owner before beginning work.
 - Coordinate ATU location with plumber before beginning work.
 - No vehicular traffic shall be allowed on the system. Landscape mowers with low-impact tires only.
 - No sprinkler system shall be installed in the system limits.
 - No subsurface construction shall be permitted within the system limits. Puncturing of the OSSF lines may possibly result.




ISSUED FOR BID



WAVECREST DESIGN, LLC
1502 ROSEWOOD DR.
KELLER, TEXAS 76248
(713) 376-1225 PH.
T.B.P.E. FIRM NO. 23292



Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144



800 N. Shoreline Blvd., Suite 1600N
Corpus Christi, Texas 78401-3700
Phone - (361) 561-6500
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SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

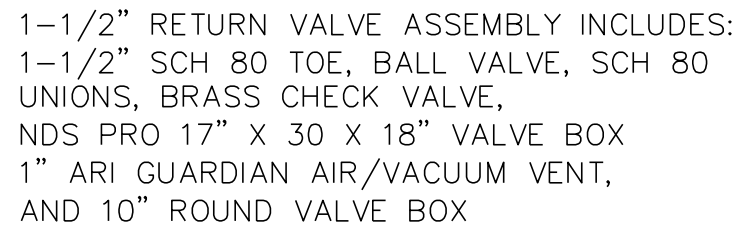
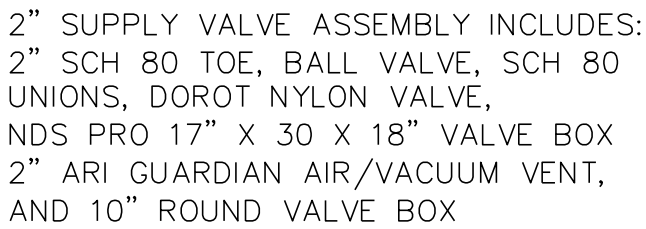
PLUMBING - ON-SITE SEWAGE FACILITY

OSSF SYSTEM OVERVIEW

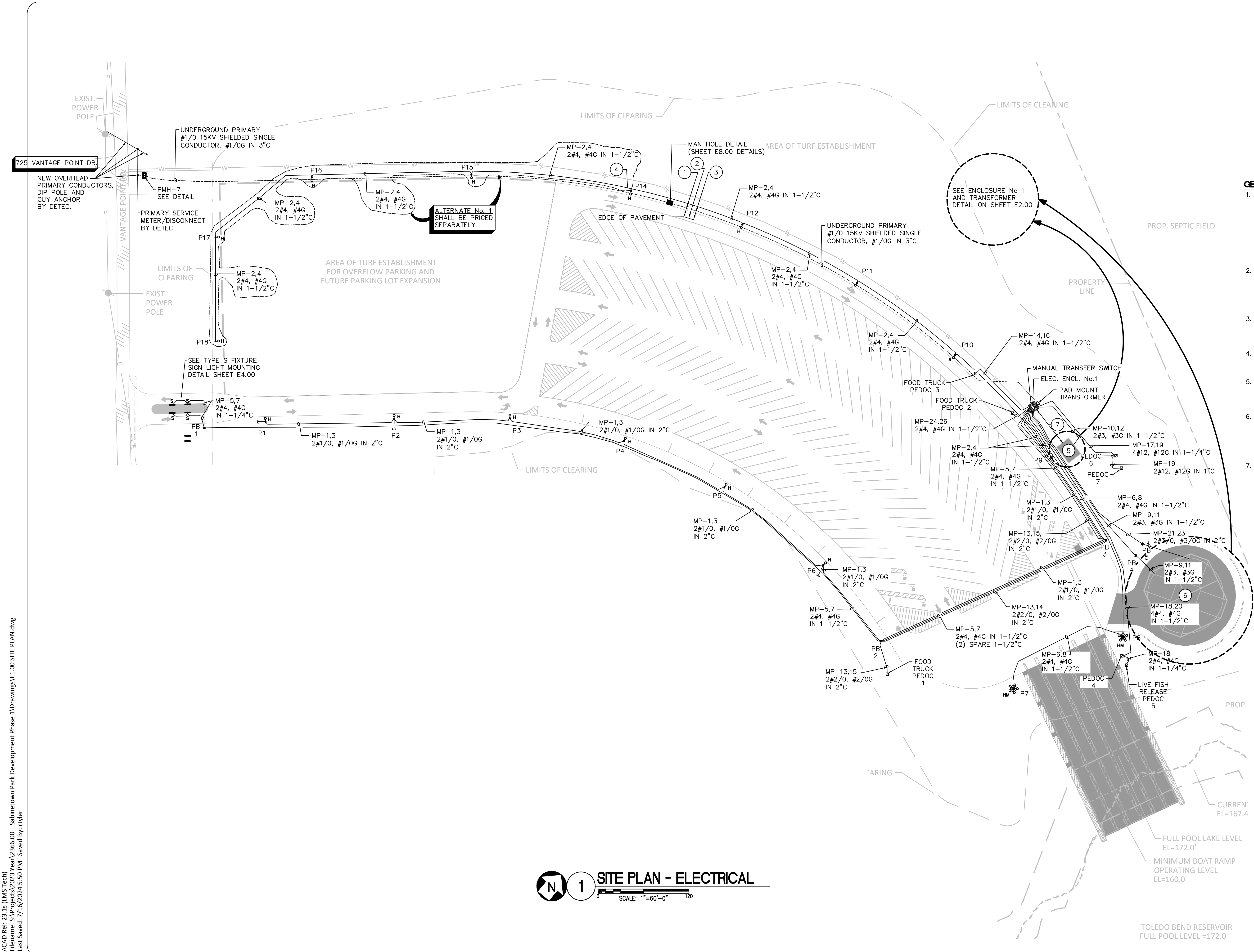
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2 OF 3

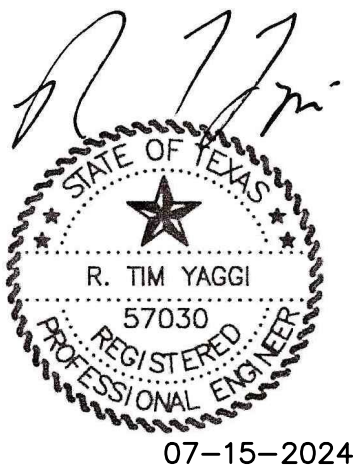
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YAGGI ENGINEERING, INC.
CONSULTING • ENGINEERS
5840 WEST INTERSTATE 20, SUITE 270
ARLINGTON, TEXAS 76017 • 817-483-2373
TEXAS REGISTRATION #E-9622
YE PROJECT 2350.02
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- GENERAL NOTES**
1. VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES, IRRIGATION PIPING, NETWORK FIBER OPTIC, CONDUITS, ETC. PRIOR TO BID. EXISTING UTILITIES ARE NOT SHOWN. REFER TO OTHER DRAWINGS AND CONTACT TEXAS 811, PRIOR TO EXCAVATION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
 2. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL ADJUST ROUTING AS NECESSARY TO FACILITATE INSTALLATION. MAINTAIN REQUIRED COVER AND MAINTAIN REQUIRED SEPARATION BETWEEN OBSTRUCTIONS AND OTHER UTILITIES.
 3. CONDUIT SHALL NOT EXCEED A TOTAL OF 270 DEGREE BENDS PER CONDUIT RUN. REFER TO SPECIFICATIONS FOR ADDITIONAL RESTRICTIONS.
 4. UNLESS SPECIFIED OTHERWISE ALL UNDERGROUND CONDUCTORS SHALL BE XHHW. (SEE SPECIFICATIONS)
 5. STAKE LOCATIONS OF ALL DEVICES, POLES, PULL BOXES, AND EQUIPMENT FOR OWNER, ARCHITECT AND ENGINEER APPROVAL BEFORE ANY EXCAVATION OR INSTALLATION.
 6. ALL CONDUITS SHALL BE MINIMUM OF 36" DEEP. DEPTHS SHALL BE INCREASED AS NECESSARY TO COORDINATE WITH OTHER WORK AND AS REQUIRED BY UTILITY COMPANIES TO MAINTAIN SEPARATION AND COVER.
 7. DEEP EAST TEXAS ELECTRICAL COOP COORDINATION CONTACT: 936-229-4000

- NOTES BY SYMBOL**
- ① 5'-0" ALIGNMENT MEASUREMENT FROM EDGE OF PAVEMENT TO CENTER OF LIGHT POLE FOOTING.
 - ② 8'-0" ALIGNMENT MEASUREMENT FROM EDGE OF PAVEMENT TO UNDERGROUND ELECTRICAL CONDUIT AND CONDUCTORS. (120/240V FROM PANEL MP.)
 - ③ 2'-0" ALIGNMENT MEASUREMENT FROM EDGE OF PAVEMENT TO UNDERGROUND PRIMARY CONDUCTORS.
 - ④ IF ALTERNATE No. 1 IS NOT ACCEPTED, INSTALL 1-1/2" PVC CONDUIT STUB-OUT FROM POLE FOOTING (10'-0" MINIMUM).
 - ⑤ RESTROOM BUILDING
 - ⑥ PAVILION
 - ⑦ CONCRETE PAD FOR ELECTRICAL EQUIPMENT SHALL BE 55'-0" FROM RESTROOM BUILDING (MINIMUM).

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Texas Registered Engineering Firm E-2144

SABINE RIVER AUTHORITY
SABINETOWN RECREATION AREA

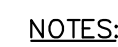
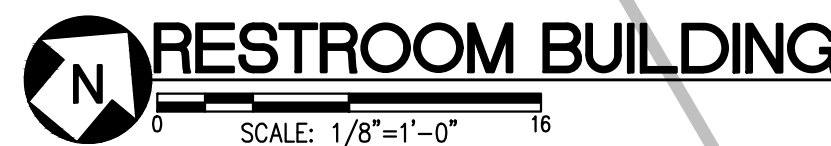
SITE PLAN - ELECTRICAL

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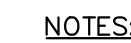
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E1.00

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- NORTH ELEVATION

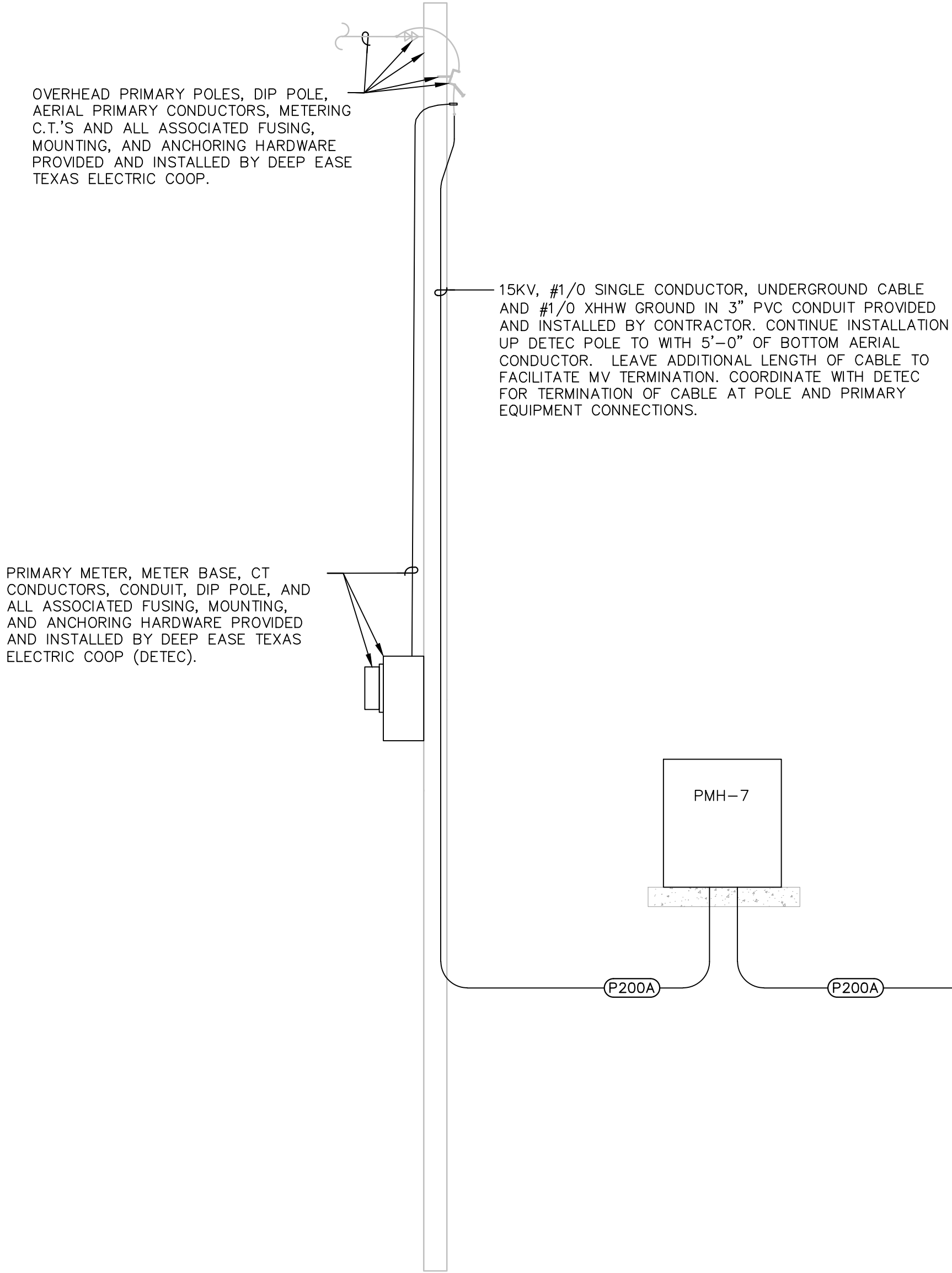


- ## GENERAL NOTES

- NOTES BY SYMBOL - PAVILION/RESTROOM BLDG.**

- VERIFY SCALE Bar Scale is one inch on original drawing
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PANEL RR										SECTION 1 OF 1	
V(L-L) 240		PHASE 3		BUS 100 A							
V(L-N) 120		WIRE 4		MCB 100 A				42,000 ALC			
DESCRIPTION	LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION		
		1		1	2	1					
				3	4	1					
				5	6	1					
				7	8	1					
				9	10	1					
				11	12	1					
				13	14	1					
				15	16	1					
						100	7.6				
CONN. N.E.C. LOAD MULT. (KVA) (KVA)											
LIGHTING	2	3									
MOTOR	2	3									
HEATING	2	3	1 PH 3 PH TOTAL								
KITCHEN									CONN. LOAD (AMPS)		
RECEPTACLE	2	2							N.E.C. MULT. (AMPS)		
MISCELLANEOUS									PERCENT SPARE		
SPARE									1.00 KITCHEN MULTIPLIER		
TOTAL	8	9							1.00 MISC. MULTIPLIER		

PANEL INTEGRAL TO PREFABRICATED BUILDING. CONTRACTOR SHALL INSTALL FEEDER CIRCUIT TO PANEL. COORDINATE WITH CONCRETE INSTALLATION AND ARCHITECT FOR EXACT LOCATION OF POWER STUB-UP IN RESTROOM BLDG.

PANEL P

SECTION 1 OF 1

V(L-L) 240

V(L-N) 120

PHASE 3

WIRE 4

BUS 125 A

MCB 100 A

SURFACE MOUNTED

42,000 ALC

DESCRIPTION	LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION
PAVILION LIGHTS	0.7	1	20	1	2	1	20	0.4	PAVILION RCPTS.
PAVILION RCPTS.	0.4	1	20	3	4	2	20	1.2	MACROAIR FAN
50A RECEPTACLE	7.8	2	50	5	6	-	-	-	-
SPARE	-	-	-	7	8	1	20		SPARE
SPARE	1	20	9	10	1	20			SPARE
SPARE	1	20	11	12	1	20			SPARE
SPARE	1	20	13	14	1	20			SPARE
SPARE	1	20	15	16	1	20			SPARE
SPARE	1	20	17	18	1	20			SPARE
SPACE	1			19	20	1			SPACE
SPACE	1			21	22	1			SPACE
SPACE	1			23	24	1			SPACE

CONN. N.E.C.		LOAD MULT.	
(KVA)	(KVA)		
LIGHTING	1	1	
MOTOR	1	1	
HEATING			
KITCHEN			
RECEPTACLE	9	9	
MISCELLANEOUS			
SPARE			
TOTAL	10	11	

1 PH

3 PH

TOTAL

CONN. LOAD (AMPS)

N.E.C. MULT. (AMPS)

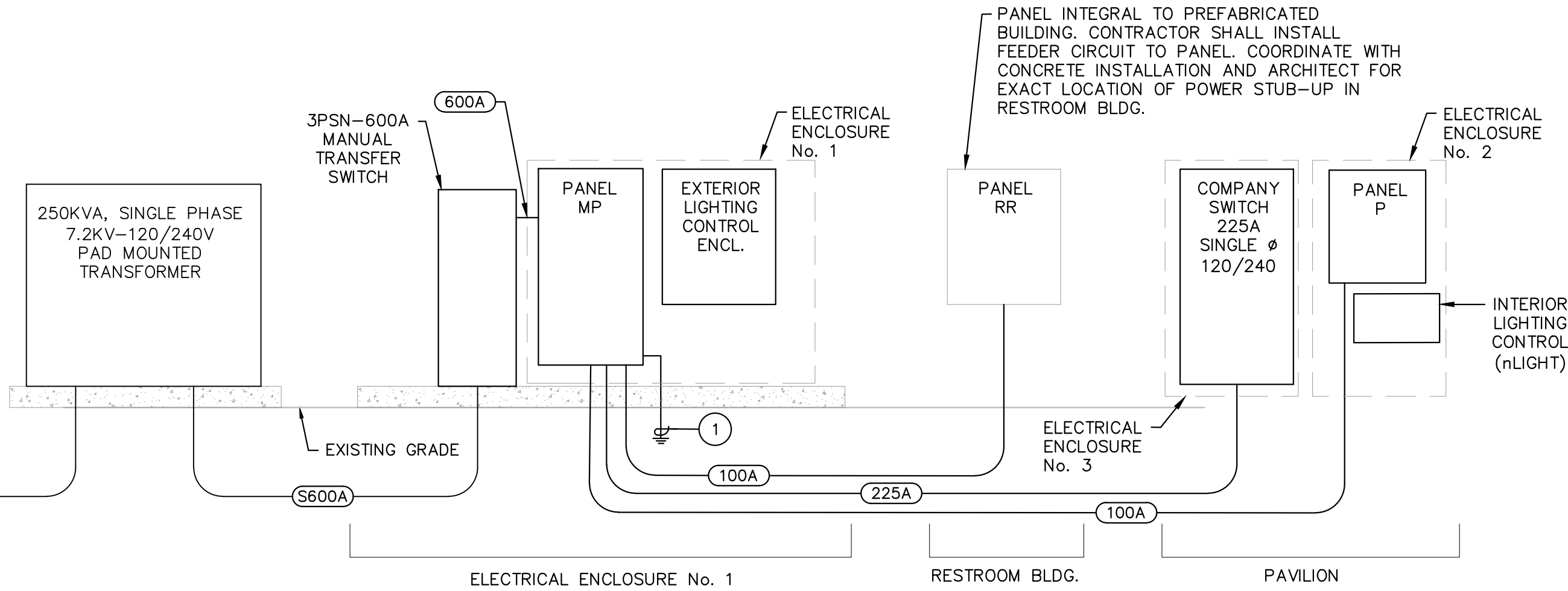
PERCENT SPARE

1.00 KITCHEN MULTIPLIER

1.00 MISC. MULTIPLIER

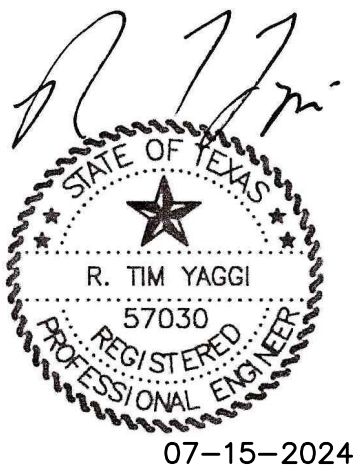
PANEL MP										SECTION 1 OF 1	
V(L-L) 240		PHASE 1		BUS 600 A		SURFACE MOUNTED					
V(L-N) 120		WIRE 3		MCB 600 A		42,000 A.I.C					
DESCRIPTION	LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION		
POLE LTS (SW)	1.5	2	20	1	2	2	20	2.4	POLE LTS (NW)		
-	-	-	-	3	4	-	-	-			
ENTRY SIGN LTS	1.6	2	20	5	6	2	30	3.8	HIGH-MAST POLE LTS		
-	-	-	-	7	8	-	-	-			
PAVILION - PANEL P -	10.9	2	100	9	10	2	100	7.6	RR BLDG - PANEL RR-		
-	-	-	-	11	12	-	-	-			
FOOD TRUCK P-DOC 1	8.0	2	50	13	14	2	50	8.0	FD. TRUCK P-DOC 3		
-	-	-	-	15	16	-	-	-			
PEDOCK 7 RECEPT.	0.8	1	20	17	18	1	20	0.8	PEDOCK 4 RECEPT.		
PEDOCK 7 RECEPT.	0.8	1	20	19	20	1	20	0.8	FISH REL. PEDOCK 5		
CO-SWITCH (PAVILION)	38.4	2	225	21	22	1	20	1.5	SEPTIC SYST. (@RR)		
-	-	-	-	23	24	2	50	8.0	FD. TRUCK P-DOC 2		
SPARE	0.3	1	20	25	26	-	-	-			
EXT LT'G. CTL CABINET	1.0	1	20	27	28	1	20	0.3	SPARE		
SPARE	0.3	1	20	29	30	1	20	0.3	SPARE		
SPARE	0.3	1	20	31	32	1	20	0.3	SPARE		
SPARE	0.3	1	20	33	34	1	20	0.3	SPARE		
SPARE	0.3	1	20	35	36	1	20	0.3	SPARE		
SPARE	0.3	1	20	37	38	1	20	0.3	SPARE		
SPARE	0.3	1	20	39	40	2	60		SPD		
SPARE	0.3	1	20	41	42	-	-	-			
CONN. N.E.C. LOAD MULT. (KVA) (KVA)											
LIGHTING	12	16									
MOTOR	3	4									
HEATING	2	3									
KITCHEN	24	24							413 CONN. LOAD (AMPS)		
RECEPTACLE	13	12							424 N.E.C. MULT. (AMPS)		
MISCELLANEOUS	41	41							3 PERCENT SPARE		
SPARE	4	4							1.00 KITCHEN MULTIPLIER		
TOTAL	99	102							1.00 MISC. MULTIPLIER		

FEEDER SCHEDULE	
AMPS	SIZE DESCRIPTION
100A	(4) #1, 1#8G IN 1-1/4" C
225A	(3) #250KCMILL, 1#4G IN 2-1/2" C
P200A	(1) 15KV #1/0, SHIELDED, 133% INSULATED, COPPER, PVC JACKETED, RIBBON TS, MV-105 CABLE AND 1/0G IN 3" C
600A	(2) 3" C WITH (4) 350 KCMIL, #1G IN EACH
S600A	(2) 3" C WITH (4) 400 KCMIL, #1G IN EACH
NOTES:	FEEDERS HAVE ADJUSTMENT FOR VOLTAGE DROP (LESS THAN 2%). VERIFY AFTER FINAL LENGTH IS DETERMINED.



ONE-LINE DIAGRAM - PANEL SCHEDULES

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SABINE RIVER AUTHORITY SABINETOWN RECREATION AREA

ONE-LINE - PANEL SCHEDULES -

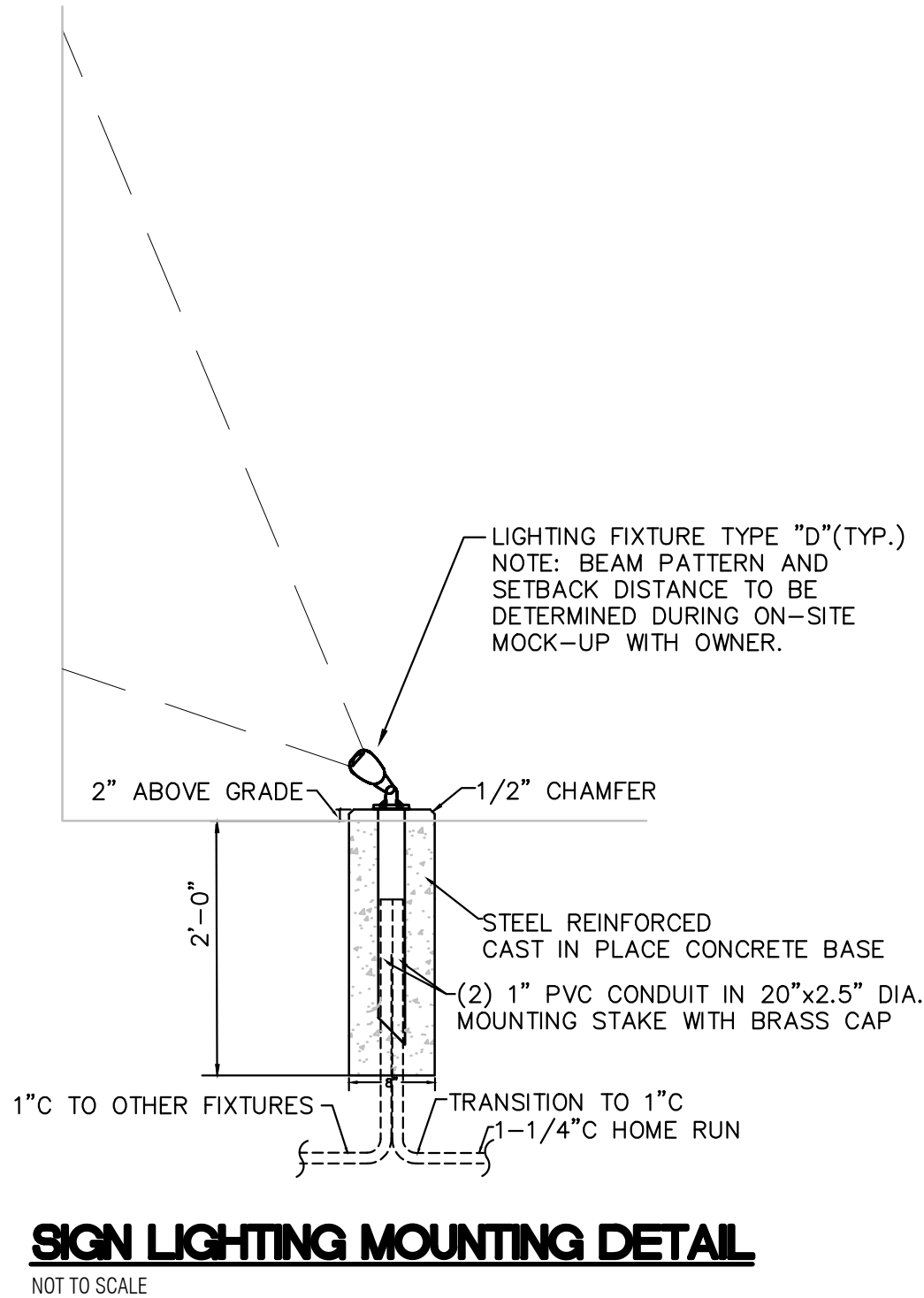
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LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE
A	PARKING LOT PULL/LED FIXTURE. LUMINAIRE WITH MICRO STRIKE 320 OPTICS, INTEGRAL SURGE SUPPRESSION DEVICE, FIELD ROTATABLE OPTICS, UL 1598 WET LOCATION LISTED, DIE-CAST ALUMINUM HOUSING, COLOR CHOICE PER ARCHITECT/OWNER, SIZE 2, TYPE 4 DISTRIBUTION. EQUAL TO CURRENT VIPER SERIES. POLE: ROUND TAPERED STEEL (RTS) 30FT POLE. COLOR TO MATCH FIXTURE AND APPROVED BY ARCHITECT/ OWNER. INCLUDE VIBRATION DAMPER SYSTEM FOR EVERY POLE. EQUAL TO VALMONT POLE NUMBER: XXXX XXXX-XX-XX X- XXXX.	POLE MOUNTED	260.1W LED 32,642 LUMENS 5000K	240
B	NEXUS 750 WATT SPORTS LIGHTER LED. YOLK MOUNT FRAME. HEAVY DUTY DIE-CAST ALUMINUM HOUSING DESIGNED TO MINIMIZE GLARE AND BE WEATHER TIGHT WITH 3G VIBRATION RATINGS TO ENSURE IT CAN SURVIVE HARSH ENVIRONMENTS. NEXUS COMES STANDARD WITH 20KV SURGE PROTECTION AND 110 VOLT DIMMING INTEGRAL OR REMOTE DRIVER OPTIONS ARE AVAILABLE. 10 YEAR WARRANTY. CALCULATED LIFE HOURS 100,000+ CALM DRIVER MANUFACTURED BY MEANWELL, OPERATING TEMPERATURE -40°F TWO 122°F. BEAM OPTICS OPTIONS ARE 25° AND 30°. FIXTURE COMBS WITH ANTISTATIC POWDER COATING BLACK IN COLOR. FIXTURE ALSO INCLUDES POLYCARBONATE MATCHING HOOD VISOR. POLE: ROUND TAPERED STEEL 100 FOOT POLE. GALVANIZED STEEL POLE INCLUDES (3) SECTIONS. INCLUDE VIBRATION DAMPER SYSTEM FOR EACH HIGH MAST POLE ORDERED. EQUAL TO VALMONT POLE NUMBER: XXXX XXXX-XX-XX X- XXXX.	YOKE MOUNTED ON HIGH MAST FIXTURE RING.	760.1W LED 9,660 LUMENS 4000K	240 (100-277)
D	CANOPY LED FIXTURE DESIGNED FOR OUTDOOR AND INDOOR PAVILIONS. 19 INCHES IN DIAMETER WITH A LOW PROFILE OF 3.75 INCHES. CRI INDEX 80, TYPE 5 OPTICS, PENDANT MOUNTED, INCLUDE BIRD SHIELD WHEN ORDERING. ALSO INCLUDE 500 LUMEN UP-LIGHT OPTION. VERIFY WITH ARCHITECT/ OWNER FOR COLOR CHOICE. EQUAL TO LITHONIA THE VCPG LED SERIES. ALSO INCLUDE SENSORS AS REQUIRED TO CONTROL ALL TYPE D FIXTURES WITH nLIGHT CONTROL SYSTEM OF APPROVED EQUAL	PENDANT MOUNT WITH BIRD PROTECTION SHIELD/SHROUD	82W LED 11,027 LUMENS 5000K	120
S (SIGN)	LINEAR SIGN LIGHT FIXTURE, EXTRUDED ALUMINUM, STAINLESS STEEL FASTENERS, ACRYLIC/UV RESISTANT LENS, KMS KNUCKLE MOUNTING TO ALLOW AIMING, WFL DISTRIBUTION, SET-BACK DETERMINED DURING MOCK-UP, POWDER COATED BLACK FINISH, COLOR AS SELECTED BY OWNER, EQUAL TO HYDREL 4750L STATIC WHITE SERIES, 0-10V DIMMING.	GROUND REFER TO DETAIL SHEET E4.00	42 WATT LED 4594 LUMENS 3000K	240
NOTES: 1. VERIFY EXACT LOCATION, MOUNTING, AND METHOD OF INSTALLATION FOR ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN. 2. SUBMIT POINT-BY-POINT FOOT-CANDLE CALCULATIONS FOR PAVILION AND SITE LIGHTING (10 FT. CENTERS FOR PAVILION AND 20 FT. CENTERS FOR SITE) 3. INCLUDE VIBRATION DAMPERING SYSTEM FOR EACH POLE.				

EXTERIOR SITE LIGHTING CONTROL SCHEDULE							
ZONE	EQUIP LOC.	PHOTOCELL	TIMECLOCK NUMBER	HOA SWITCH	CONTACTOR		
					CONTACTOR NO./RATING	CIRCUITS	
POLES P1-P6 & P9-P18	ENCL NO.1	1	TC-1	1	C-1	6P-30A	MP-1,3 MP-2,4
POLES P7 THRU P8	ENCL NO.1	1	TC-1	2	C-2	2P-30A	MP-6,8
ENTRY SIGN	ENCL NO.1	1	TC-1	3	C-3	2P-30A	MP-5,7
PAVILION LIGHTS	ENCL NO.2	2	TC-2	4	C-4	2P-30A	P-1
PAVILION FAN	ENCL NO.3	FAN OFF/ON AND SPEED BY CONTROLLER INCLUDED WITH FAN					P-4,6
NOTES:							
1. PROVIDE AUXILIARY RELAYS AS REQUIRED FOR 2-WIRE CONTROL.							
2. CONTACTORS SHALL BE LOCATED IN SEPARATE NEMA 1 ENCLOSURE IN ENCLOSURE No. 1							
3. PHOTOCELL SHALL BE INSTALLED (WITH GRC PROTECTIVE COLLAR) ON EXTERIOR OF NORTH WALL OF ENCLOSURE No. 1 AS HIGH AS POSSIBLE AND FACING NORTH.							
4. PROVIDE PHOTOCELL-ON, TIMECLOCK-OFF CONTROL AND HOA SWITCH FOR BY-PASS ON/OFF/AUTO OPERATION.							
5. HOA SWITCHES SHALL BE INSTALLED IN HINGED COVER OF ABOVE CONTACTOR REFERENCED CONTACTOR ENCLOSURE.							

POLE SCHEDULE				
POLE NUMBER	POLE HEIGHT	FIXTURE TYPE	FIXTURE QUANTITY	VOLTAGE
P1	30'	A	1	240
P2	30'	A	1	240
P3	30'	A	1	240
P4	30'	A	1	240
P5	30'	A	1	240
P6	30'	A	1	240
P7	80'	B	5	240
P8	80'	B	5	240
P9	30'	A	1	240
P10	30'	A	1	240
P11	30'	A	1	240
P12	30'	A	1	240
P13	30'	A	1	240
P14	30'	A	1	240
P15	30'	A	1	240
P16	30'	A	1	240
P17	30'	A	1	240
P18	30'	A	1	240



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07-15-2024

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SABINETOWN RECREATION AREA

LIGHT FIXTURE SCHEDULE - LIGHT POLE SCHEDULE -
INTERIOR AND EXTERIOR LIGHTING CONTROL SCHEDULE

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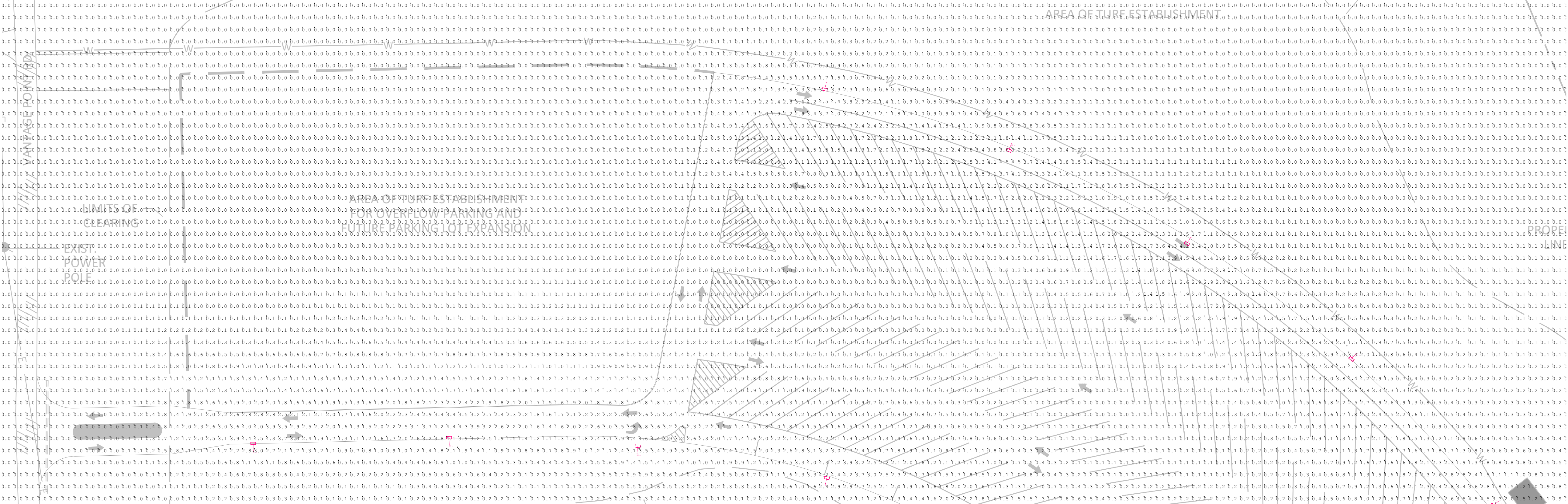
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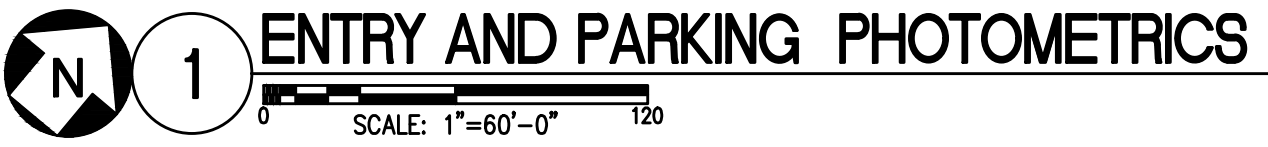
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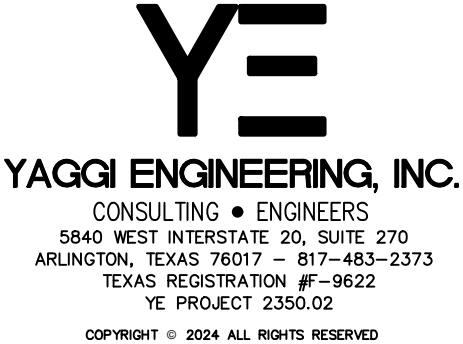


- GENERAL NOTES**
1. LIGHTING LEVELS SHALL MEET OR EXCEED HORIZONTAL FOOTCANDLE VALUES SHOWN. PROVIDE POINT-BY-POINT CALCULATIONS BY FIXTURE MANUFACTURER.



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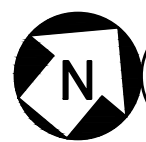
ENTRY AND PARKING PHOTOMETRICS

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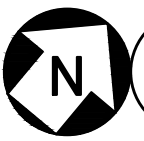
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PAVILION PHOTOMETRICS - INTERIOR

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DOCK AND PAVILION PHOTOMETRICS - EXTERIOR

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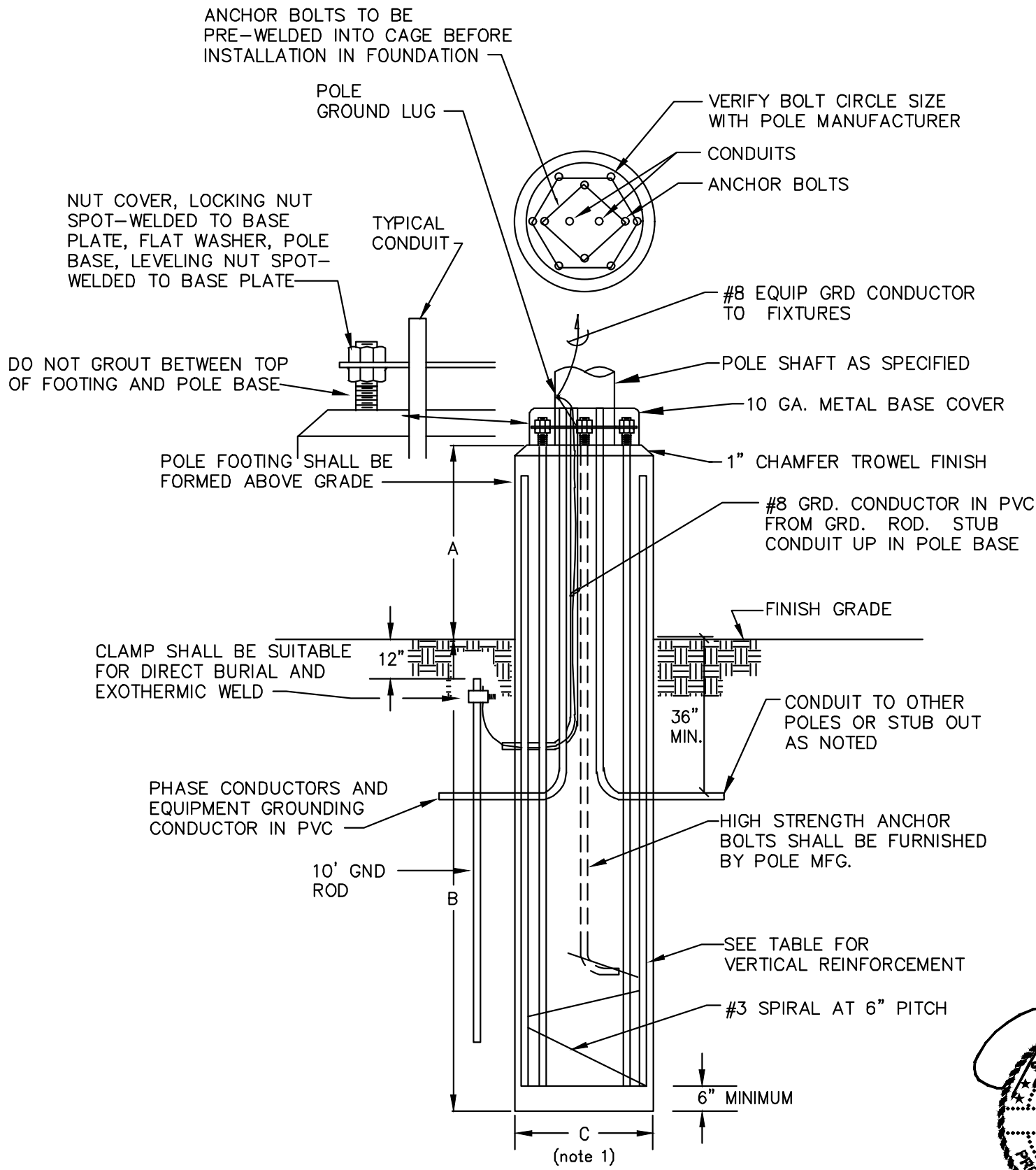
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- GENERAL NOTES
- LIGHTING LEVELS SHALL MEET OR EXCEED HORIZONTAL FOOTCANDLE VALUES SHOWN. PROVIDE POINT-BY-POINT CALCULATIONS BY FIXTURE MANUFACTURER.



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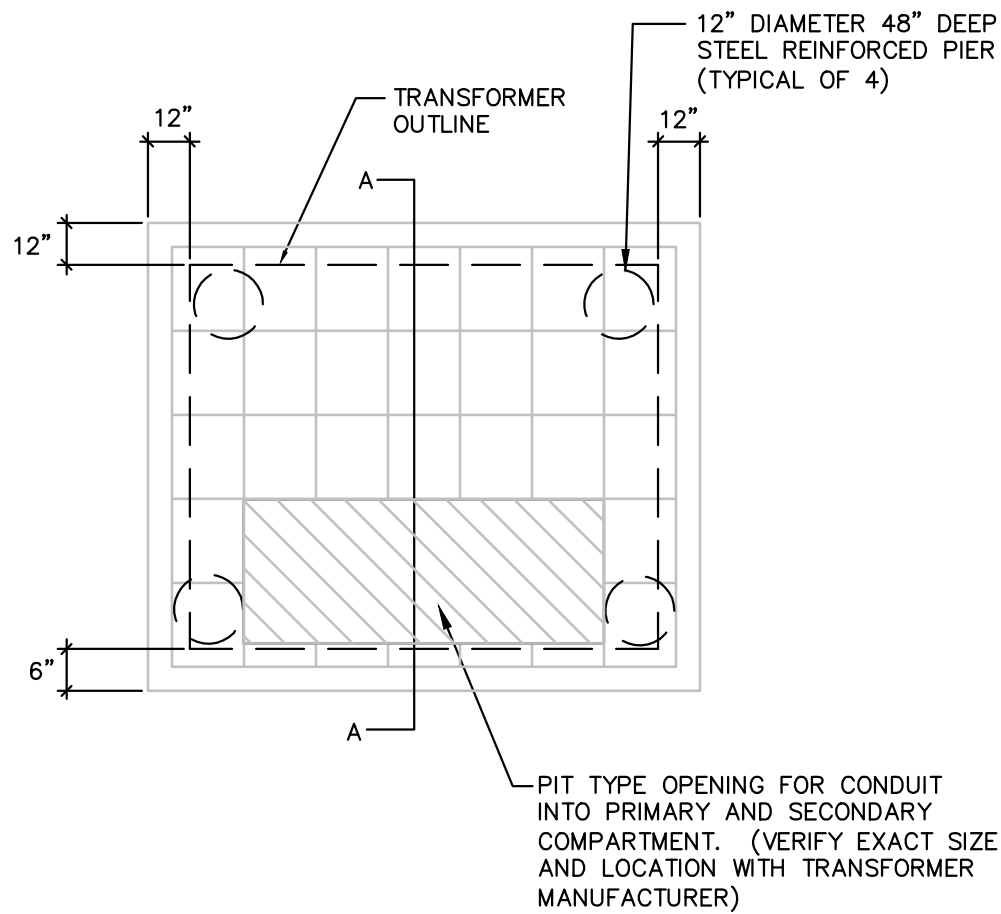
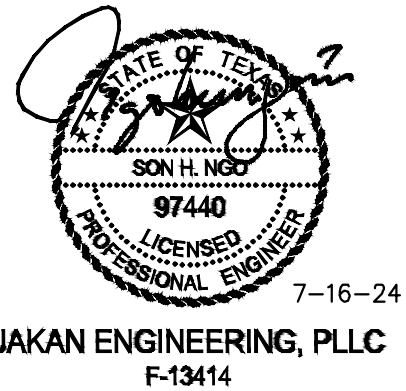
LIGHT POLE FOOTING
SABINETOWN PARK RECREATION AREA

POLE FOUNDATION SCHEDULE				
POLE BASE	A	B	C	VERTICAL REINFORCEMENT
HIGH MAST (80'-6" POLE)	6"	20'-0"	42"	(14) #9
PARKING LOT (25'-6" POLE)	6"	14'-0"	24"	(6) #8

NOTES:

- FOUNDATION DIAMETER SHALL NOT BE LESS THAN 4" LARGER THAN POLE BASE DIAMETER.
- DRILLED SHAFT CONCRETE (f'c)=3500 PSI @ 28 DAYS
- DRILLED SHAFT REINFORCING STEEL SHALL BE GRADE 60
- PROVIDE LAPSPICE LENGTH = 60" X BAR DIAMETER
- CLEAR COVER SHALL BE 3" U.N.O.
- REFER TO ELECTRICAL PLAN FOR ADDITIONAL INFORMATION NOT SHOWN.
- FORMS SHALL BE USED FOR POLE FOOTING PORTION ABOVE GRADE.
- LIGHT POLE DESIGN WIND SPEED = 130 MPH

LIGHT POLE FOOTING DETAIL
NOT TO SCALE

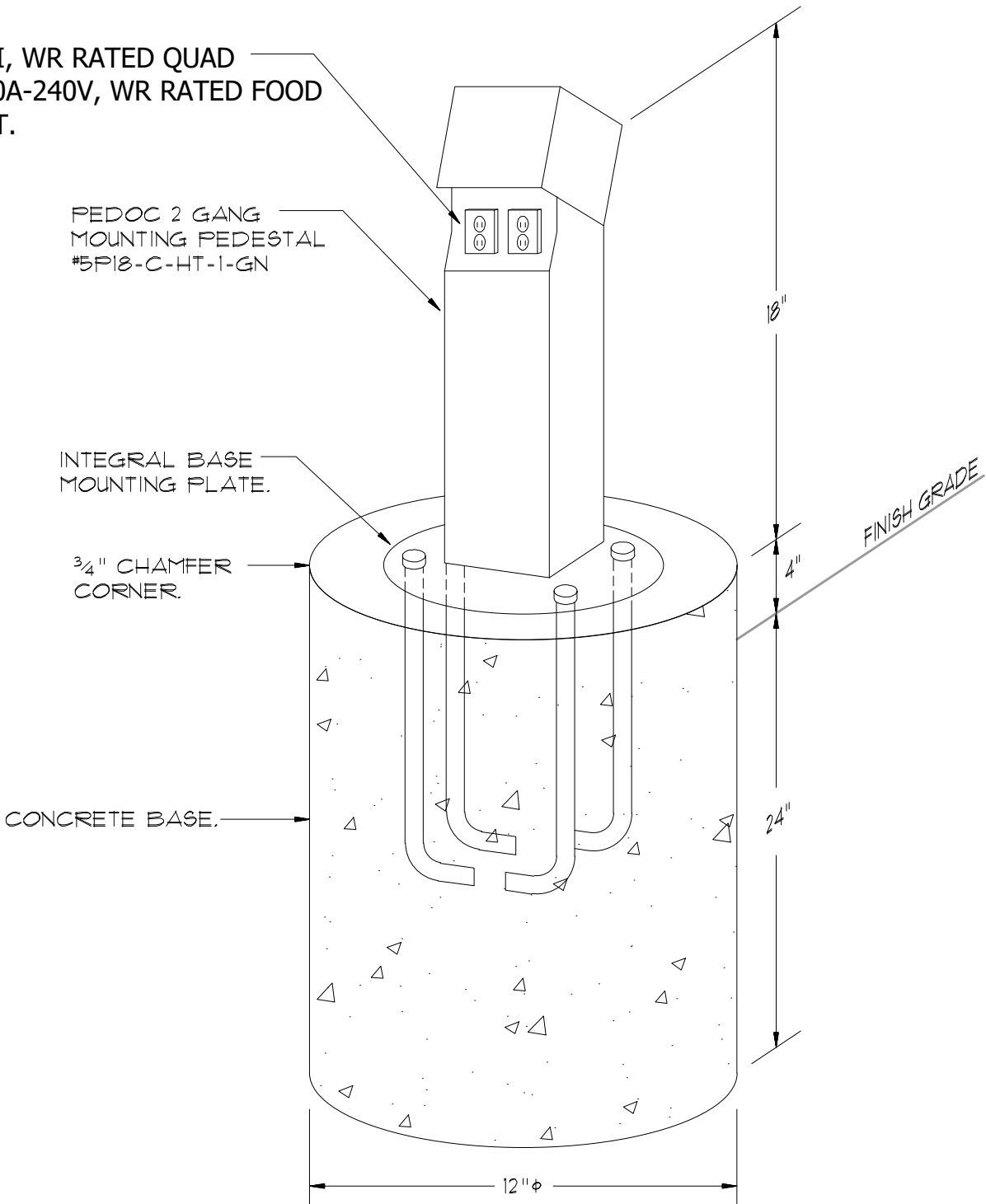


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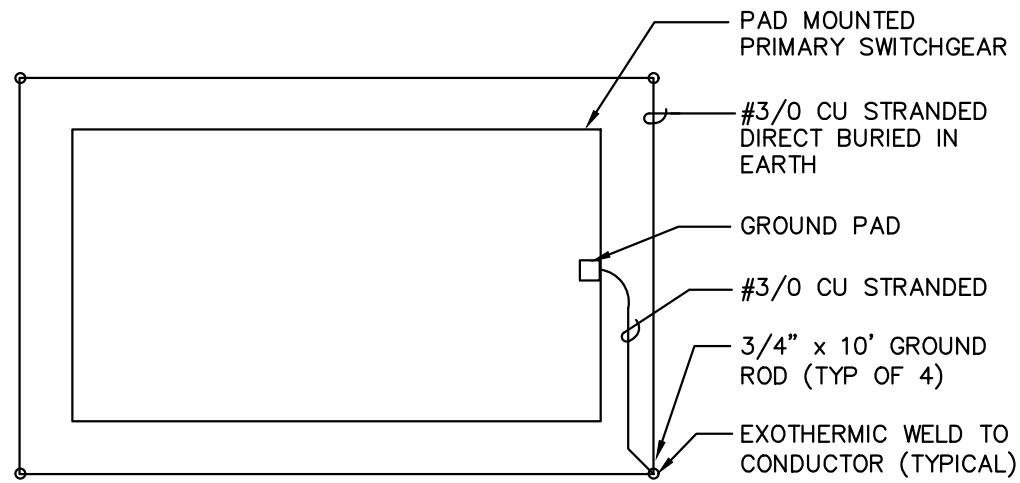
- CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3000 PSI.
- REBAR TO BE #4 DEFORMED PLACED ON 12" O.C. EACH WAY.
- PAD SHALL BE TROWEL FINISHED WITH CHAMFERED EDGES.
- TOP OF FINISHED PAD SHALL BE 5" ABOVE GRADE. PAD SHALL BE 9" THICK.
- ALLOW PAD TO CURE A MINIMUM 3 DAYS BEFORE SETTING TRANSFORMER.
- FURNISH AND INSTALL A 3/4" x 10' DRIVEN COPPERWELD GROUND ROD LOCATED AS SHOWN.
- TRANSFORMER PAD DETAILS ARE TYPICAL. PAD SHALL BE DIMENSIONED 6" LARGER THAN TRANSFORMER ALL AROUND.
- PAD SHALL BE POURED ON 6" WET SAND CUSHION.

TRANSFORMER PAD DETAIL
NOT TO SCALE

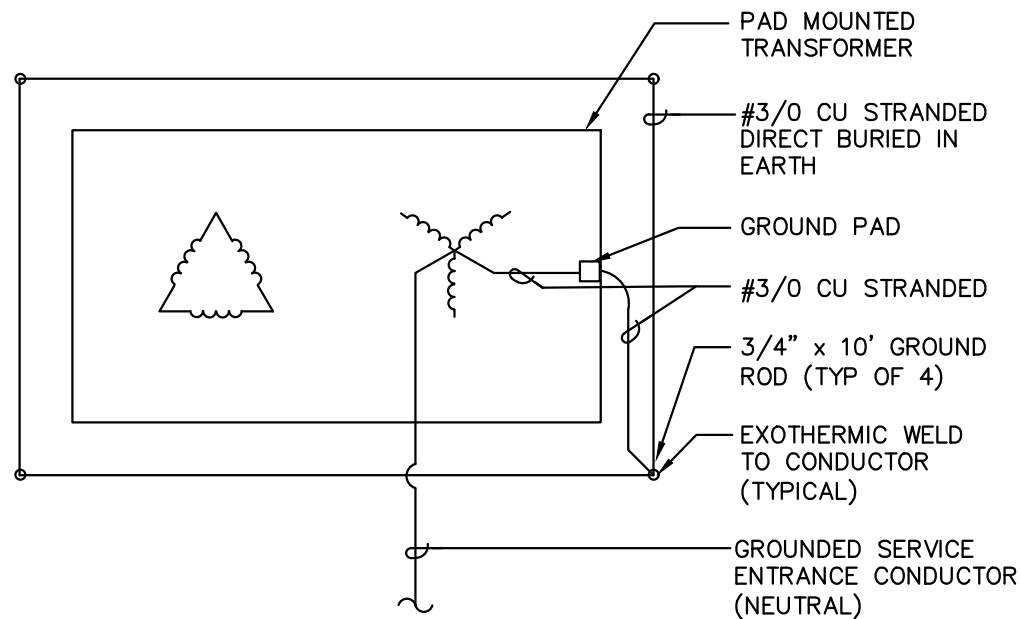
20A-125V GFCI, WR RATED QUAD RECEPT. OR 50A-240V, WR RATED FOOD TRUCK RECEPT.



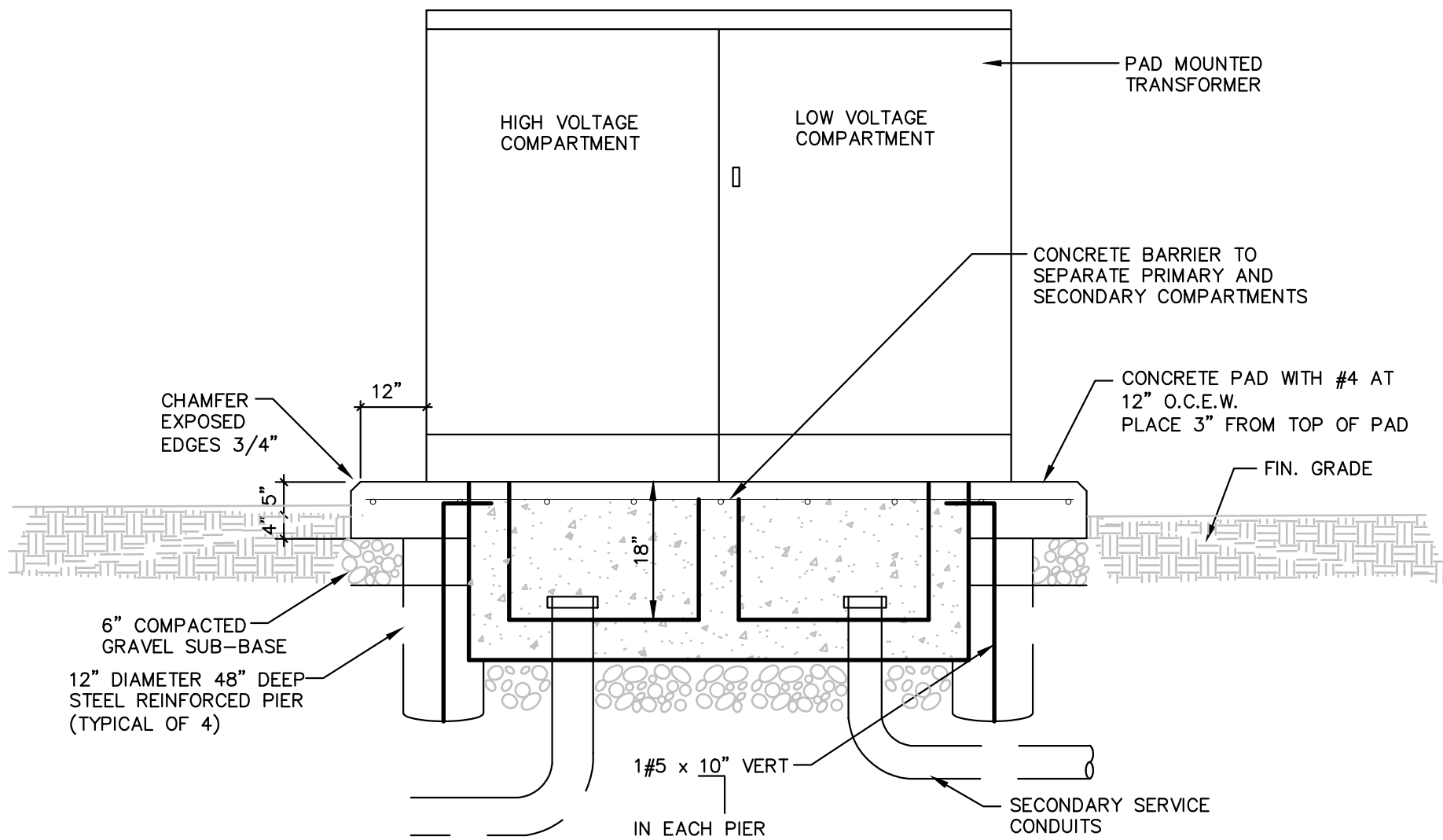
PEDOC FOOD TRUCK OR QUAD RECEPTACLE DETAIL
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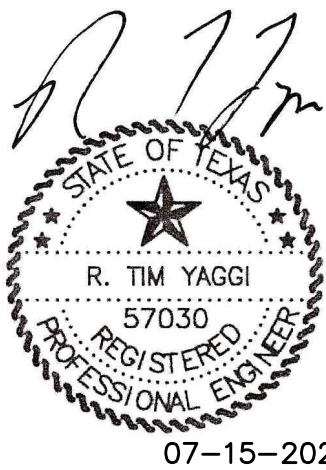
PAD MOUNTED PRIMARY SWITCHGEAR GROUND DETAIL
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PAD MOUNTED TRANSFORMER GROUND DETAIL
NOT TO SCALE



TRANSFORMER PAD DETAIL (PMH PAD SIMILAR)
NOT TO SCALE



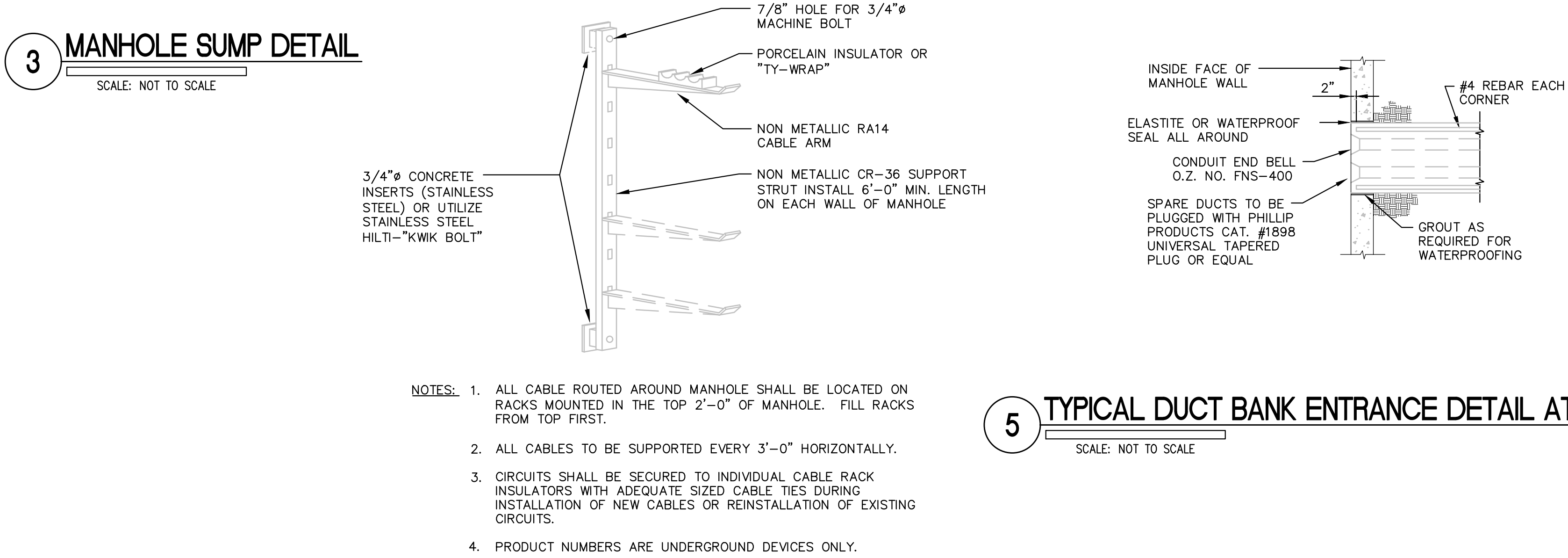
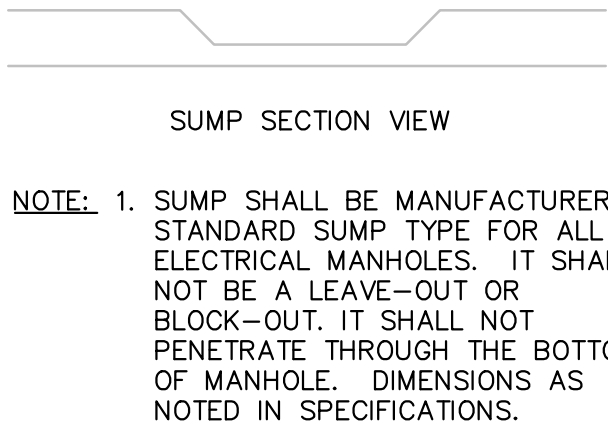
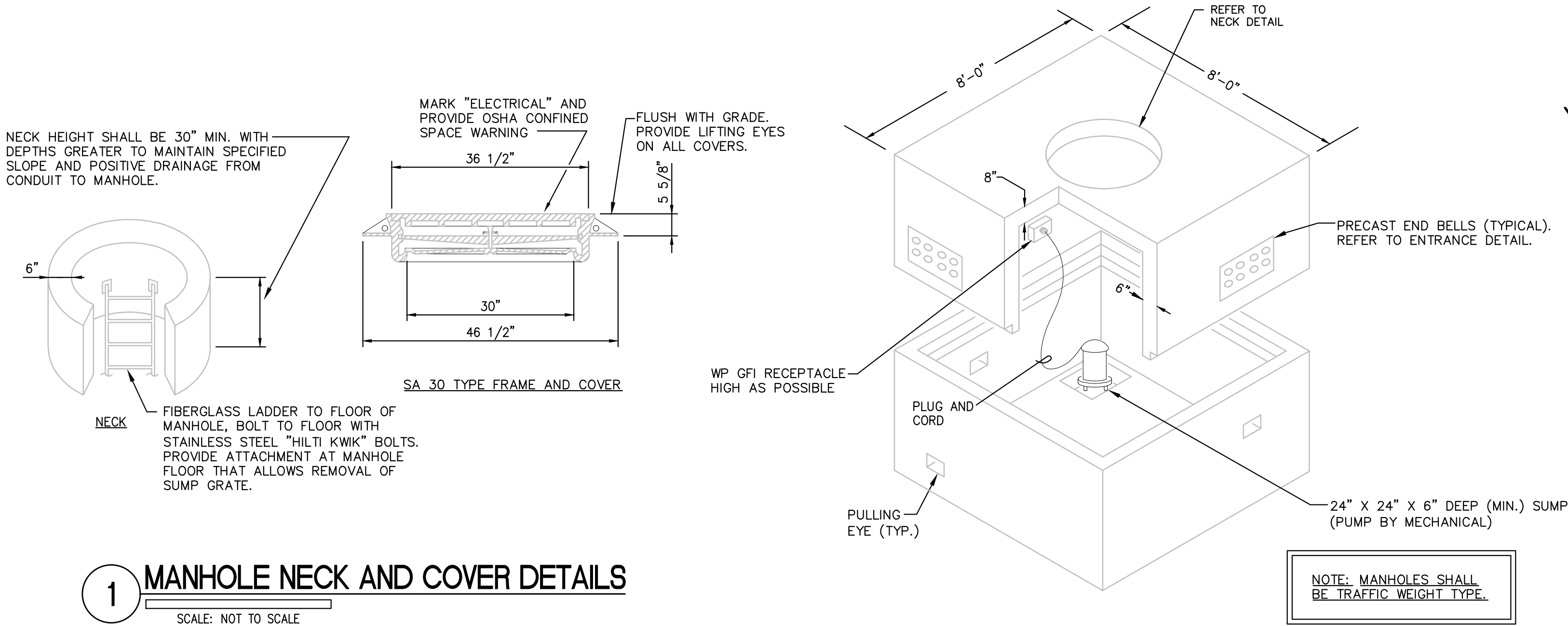
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SABINETOWN RECREATION AREA

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