

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	1

# ADM GROWMARK / PORT OF SOUTH LOUISIANA

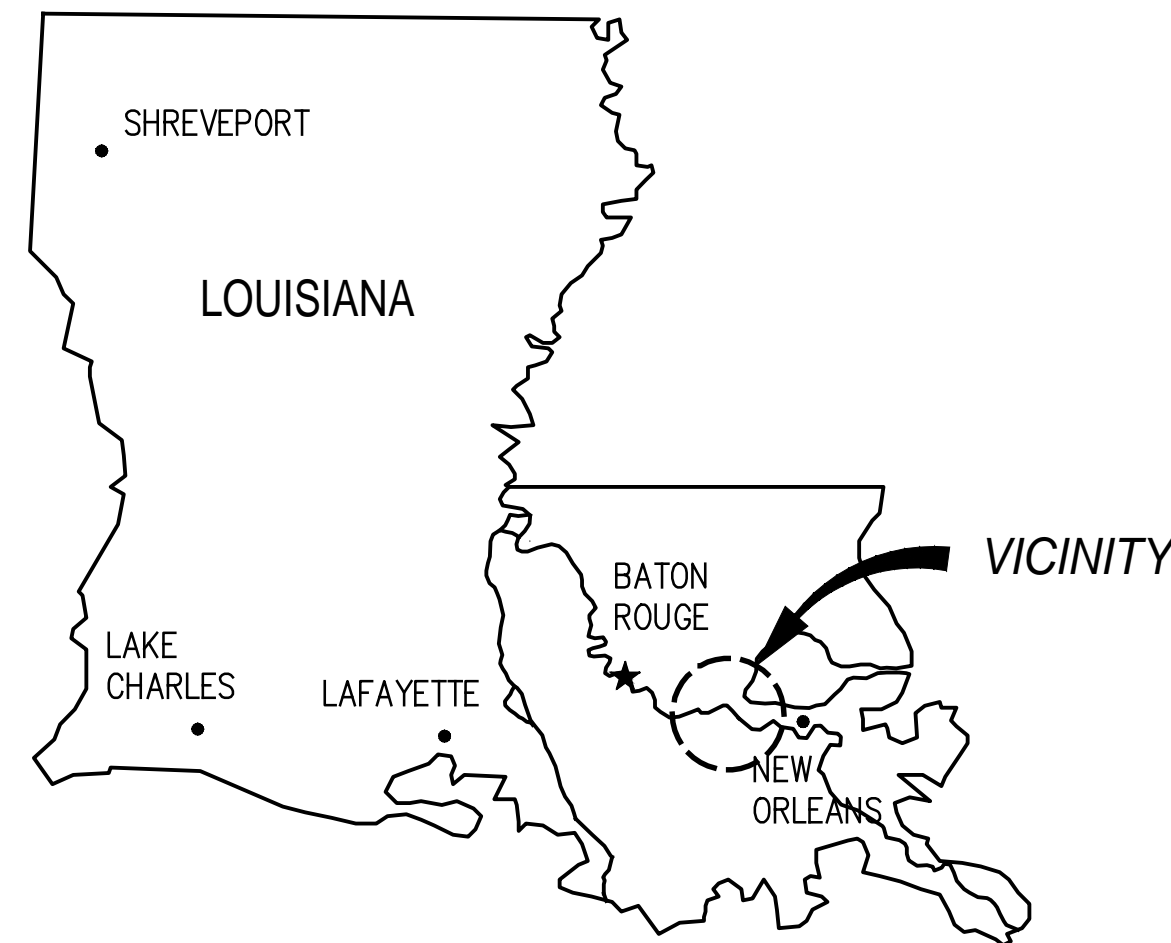
STATE PROJECT No. H.013125(321)

## PORT IMPROVEMENTS RESERVE GRAIN FACILITY UNDER DOCK REFURBISHMENT

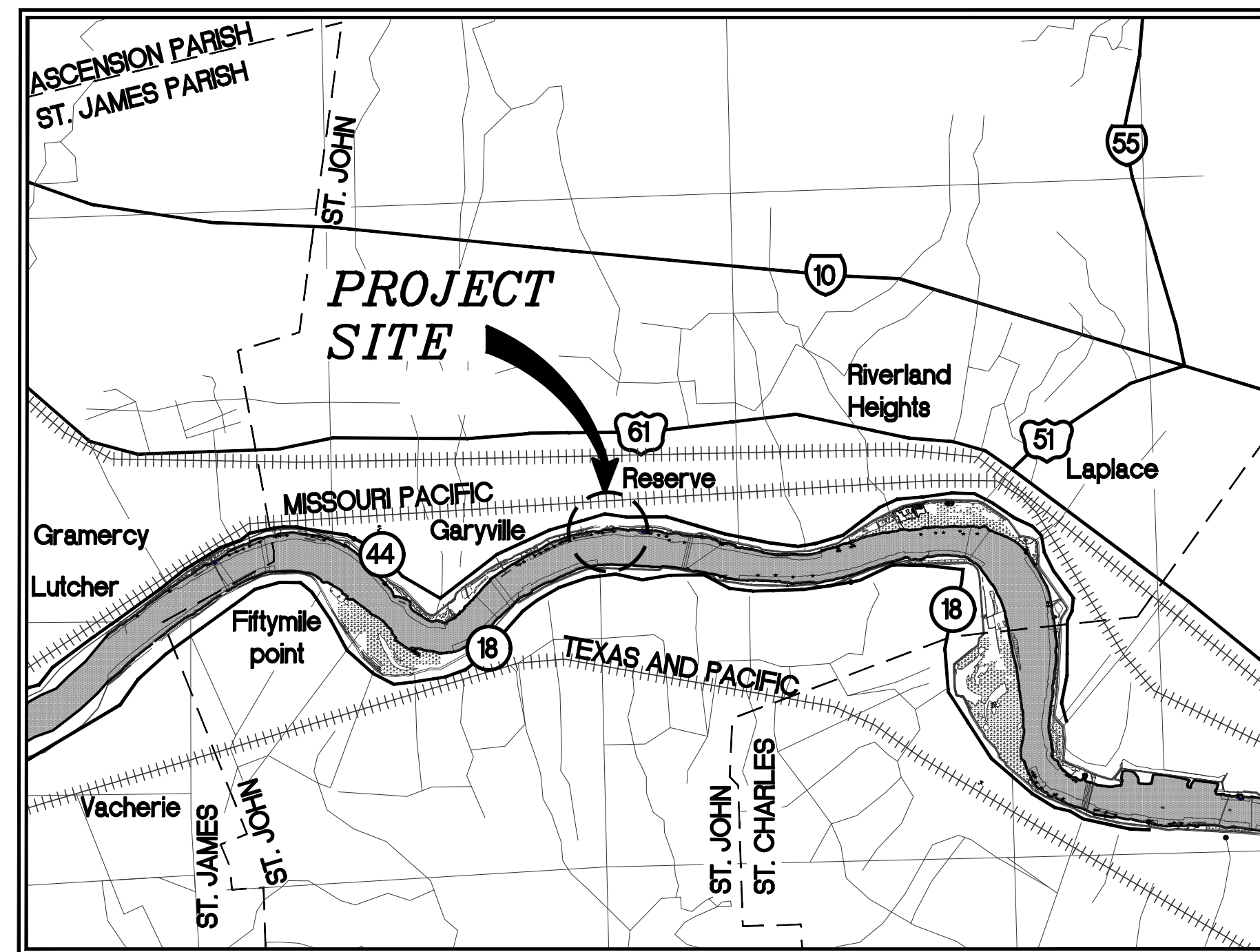
(PHASE IA OF SPN. H.013125(321))

FUNDED IN PART BY THE  
LOUISIANA TRANSPORTATION TRUST FUND THROUGH THE  
PORT CONSTRUCTION AND DEVELOPMENT PRIORITY PROGRAM

PORT OF SOUTH LOUISIANA COMMISSION	
MEMBER	POSITION
RYAN BURKS	CHAIRMAN
JUDY B. SONGY	VICE CHAIRWOMAN
ROBIE LEBLANC	TREASURER
STANLEY BAZILE	SECRETARY
WHITNEY HICKERSON	VICE PRESIDENT
LOUIS JOSEPH	VICE PRESIDENT
KATIE KLIBERT	VICE PRESIDENT
P. JOEY MURRAY, III	VICE PRESIDENT
D. PAUL ROBICHAUX	VICE PRESIDENT



AREA MAP



LAT. 30° 3' 16"  
LONG. 90° 34' 39"

TYPE OF CONSTRUCTION:  
HEAVY MARINE CONSTRUCTION

VICINITY MAP

N.T.S.

NOTES:

- VERTICAL CONTROL IS BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) USING GEOID 18.
- CONTRACTOR SHALL CONTACT LOUISIANA ONE CALL HOTLINE AT 1-800-272-3020, AT LEAST 48 HOURS PRIOR TO DIGGING.
- THE 2016 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS SHALL GOVERN THIS PROJECT.



PLANT SITE LAYOUT

N.T.S.

LEGEND	
	SECTIONS USE LETTERS SHEET NUMBER ON WHICH SECTION IS FOUND
	SECTION CUT LETTER
SCALE:	SHEET NUMBER FROM WHICH SECTION IS CUT
	DETAILS USE NUMBERS
	SHEET NUMBER ON WHICH DETAIL IS FOUND
SCALE:	DETAIL NUMBER
	SHEET NUMBER FROM WHICH DETAIL IS TAKEN
	SECTION OR DETAIL CALL-OUT
	DASH INDICATES ON SAME SHEET AS CALL-OUT

APPROVAL, PORT OF SOUTH LOUISIANA

APPROVAL, LANIER & ASSOCIATES

**PRELIMINARY  
FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES  
CONSULTING ENGINEERS, INC.**  
LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION
A	03/27/24	AKG	ISSUED FOR BIDS

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF BIDDING UNDER THE AUTHORITY OF ALLISON K. GAINES, P.E. 40393 ON 03/27/24. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO.	11832-1

PORT OF SOUTH LOUISIANA RESERVE	LOUISIANA
UNDER DOCK REFURBISHMENT TITLE SHEET - AREA MAP, VICINITY MAP & LEGEND	

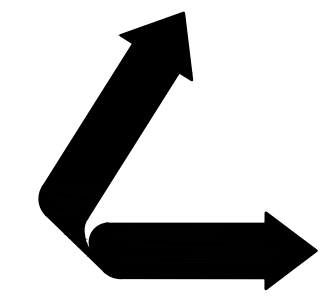
SHEET NO.  <b>CS1</b>
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STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	2

STRUCTURAL DRAWING INDEX		
SHEET NO.	REV.	TITLE
CS1	A	TITLE SHEET – AREA MAP, VICINITY MAP & LEGEND
CS2	A	DRAWING INDEX
CS3	A	GENERAL NOTES
SP1	A	OVERALL EXISTING SITE PLAN
SP2	A	OVERALL NEW SITE PLAN
C1	A	DEGRADING PLAN WITH DEGRADING LIMITS & EXISTING CONTOURS
C2	A	DEGRADING PLAN WITH PROPOSED NEW DEGRADING CONTOURS
C3	A	DEGRADING PLAN SECTIONS
D1	A	EXISTING APPROACHWAY ELEVATION DEMOLITION PLAN
S1	A	NEW LANDSIDE APPROACHWAY PILE PLAN
S2	A	NEW LANDSIDE APPROACHWAY CONCRETE PLAN
S3	A	NEW LANDSIDE APPROACHWAY ELEVATION & DETAILS
S4	A	NEW LANDSIDE APPROACHWAY SECTIONS & DETAIL
S5	A	NEW LANDSIDE APPROACHWAY DETAIL & SECTIONS
S6	A	ACCESS PLATFORM STAIRS PLANS, SECTIONS & DETAILS
S7	A	PRECAST ROADWAY PANEL TYPE 1 – DETAILS
S8	A	PRECAST ROADWAY PANELS TYPES 2, 2A, 3 & 4 – DETAILS
S9	A	APPROACHWAY ABUTMENT PLAN, SECTION & DETAILS
S10	A	GUARD SHACK PLATFORM PLANS
S11	A	GUARD SHACK PLATFORM SECTIONS & DETAILS
S12	A	GUARD SHACK PLATFORM SECTION

ELECTRICAL DRAWING INDEX		
SHEET NO.	REV.	TITLE
E1	A	GENERAL NOTES & LEGEND
E2	A	OVERALL SITE PLAN
E3	A	480V ONE-LINE DIAGRAM (PARTIAL)
E4	A	SECURITY GATE CONTROL BLOCK DIAGRAM
E5A	A	ENLARGED PLAN POWER & CONTROL – APPROACHWAY
E5B	A	ENLARGED PLAN POWER & CONTROL – APPROACHWAY
E6	A	ENLARGED PLAN LIGHTING & GROUNDING – APPROACHWAY
E7	A	MISC. ELECTRICAL DETAILS
E8	A	JUNCTION BOX "JB-1" LAYOUT & BILL OF MATERIAL
E9A	A	GUARD SHACK BUILDING LAYOUT AND BILL OF MATERIAL
E9B	A	GUARD SHACK BUILDING ELEVATIONS
E9C	A	GUARD SHACK BUILDING POWER AND CONTROL PLAN
E11	A	PANELBOARD SCHEDULE "PP-1"
E12	A	POWER & CONTROLS DETAILS
E13	A	DOCK ELECTRICAL BUILDING LAYOUT
E14	A	CONDUIT & CABLE SCHEDULE
ED1	A	OVERALL EXISTING SITE PLAN – DEMOLITION

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RESERVE	PORT OF SOUTH LOUISIANA LOUISIANA
UNDER DOCK REFURBISHMENT	
DRAWING INDEX	

SHEET NO.  <b>CS2</b>
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STATE PROJECT	PARISH	SHEET NO.
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**GENERAL NOTES:**

- DESIGN AND CONSTRUCTION SHALL COMPLY WITH THESE GENERAL NOTES, THE CONTRACT DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE STATE AND LOCAL CODES.
- EXISTING CONSTRUCTION AND CONDITIONS SHOWN ARE SCHEMATIC. ACTUAL CONDITIONS MAY DIFFER. CONTRACTOR IS FULLY RESPONSIBLE FOR MAKING HIS OWN SITE EXAMINATION AND DETERMINING ACTUAL NATURE AND EXTENT OF EXISTING CONDITIONS AS NEEDED PRIOR TO UNDERTAKING THE WORK.
- U.S. ARMY CORPS OF ENGINEERS PERMITS HAVE BEEN SECURED BY OWNER. CONTRACTOR SHALL BE REQUIRED TO ABIDE BY ALL REQUIREMENTS AND RESTRICTIONS SET FORTH BY THESE PERMITS. ALL OTHER PERMITS, LICENSES AND NOTIFICATIONS NECESSARY FOR THE PROSECUTION OF WORK SHALL BE SECURED BY THE CONTRACTOR.
- PORTIONS OF THE FACILITY WILL REMAIN IN OPERATION DURING WORK. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH OWNER. THE CONTRACTOR SHALL NOT INTERFERE WITH ACTIVITIES AT EXISTING FACILITY TO ALL EXTENTS POSSIBLE.
- ANY DAMAGE, DISTURBANCE, OR OTHER IMPAIRMENT OF EXISTING FACILITIES SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR AS APPROVED BY AND AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL REMOVE CONSTRUCTION MATERIAL AND DEBRIS FROM WORK SITE DURING AND AT COMPLETION OF WORK.
- STORAGE OF EQUIPMENT AND MATERIAL SHALL BE IN OWNER-DESIGNATED AREAS ONLY.
- SITE ACCESS SHALL BE AS DIRECTED BY OWNER.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES, PERMIT RESTRICTIONS AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY PRECAUTIONS, MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, SHORING, SCAFFOLDING, UNDERPINNING AND ANY ERECTION METHODS.
- ALL STRUCTURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER ERECTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL LAYOUT AND SURVEYING REQUIRED FOR THE CONSTRUCTION AS SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND PIPING, UTILITIES, AND OTHER OBSTRUCTIONS IN THE VICINITY OF WORK AREA PRIOR TO BEGINNING CONSTRUCTION.
- ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO FABRICATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN. COORDINATE WITH ALL DRAWINGS FOR INFORMATION RELATED TO STRUCTURAL WORK.
- THE FOLLOWING CODES AND STANDARDS SHALL BE OBSERVED FOR ALL PROJECT RELATED ACTIVITIES:  
ASCE 7 - 16  
INTERNATIONAL BUILDING CODE  
ACI 318 - 19  
AWS D1.1, D1.4  
AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS 360-10  
AISC CODE OF STANDARD PRACTICE  
SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS
- THE CONTRACTOR SHALL NOTIFY THE USCG OF MARINE ACTIVITIES IN ACCORDANCE WITH USCG REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST ASSOCIATED WITH ALL MATERIAL TESTING REQUIRED IN THE PROJECT DOCUMENTS, UNLESS NOTED OTHERWISE.

**STRUCTURAL STEEL**

- ALL STRUCTURAL STEEL AND ASSOCIATED FABRICATION SHALL CONFORM WITH AISC AND ASTM STANDARDS FOR FABRICATION AND ERECTION OF STRUCTURAL STEEL.
- ALL STEEL WIDE FLANGES/WT SECTIONS ARE TO MEET ASTM A992; STEEL HP AND CHANNELS ARE TO MEET ASTM A572 GRADE 50; STEEL ANGLES ARE TO MEET ASTM A572 GRADE 50; STEEL PIPE (12" DIAMETER OR LESS) ARE TO MEET ASTM A53 (GRADE B); AND STEEL PIPE (EXCLUDING ROLLED MONOPILES) (GREATER THAN 12" DIAMETER) ARE TO MEET ASTM A252 GRADE 3 UNLESS NOTED OTHERWISE. ALL STEEL PLATE TO MEET ASTM A572-GR50.
- ALL CONNECTIONS TO BE FULL PENETRATION WELDS AND TO DEVELOP FULL CAPACITY OF MEMBERS UNLESS OTHERWISE NOTED.
- ALL BOLTED CONNECTIONS NOT DETAILED SHALL BE DESIGNED TO SUPPORT ONE-HALF TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLE, PART THREE OF THE AISC STEEL CONSTRUCTION MANUAL, OR FOR LOADS SHOWN ON THE DRAWINGS. ALL CONNECTIONS SHALL BE REINFORCED WITH 3/8" STIFFENER PLATES.
- ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 AND D1.4, LATEST EDITIONS, AND SHALL BE PERFORMED BY AWS QUALIFIED WELDERS. WELDING ELECTRODES TO BE E70XX.
- ALL STRUCTURAL BOLTS SHALL BE A325 TYPE 1 AND HOT DIPPED GALVANIZED, UNLESS OTHERWISE NOTED.
- ALL STRUCTURAL WELDS ARE SUBJECT TO NON-DESTRUCTIVE EXAMINATION BY ULTRASONIC TESTING (UT). EXAMINATION SHALL BE ACCOMPLISHED BY SELECTING SAMPLE GROUPS OF WELDS DURING VARIOUS STAGES OF FABRICATION. FIVE PERCENT (5%) OF THE WELDS WITHIN THE DEFINED SAMPLE GROUP SHALL BE TESTED. IF NO WELDS ARE PROVEN TO BE DEFECTIVE IN THE OPINION OF THE OWNER'S REPRESENTATIVE, NO FURTHER TESTING OF THE SAMPLE GROUP SHALL BE REQUIRED. IF TEN PERCENT (10%) OR MORE OF THE WELDS TESTED ARE PROVEN DEFECTIVE, THE NUMBER OF WELDS TO BE TESTED SHALL BE INCREASED FROM 5 TO 10 PERCENT (10%) OF THE SAMPLE GROUP. IF MORE THAN 10 PERCENT (10%) OF THE WELDS TO THIS TIME ARE PROVEN DEFECTIVE IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEN ALL OF THE WELDS IN THE SAMPLE GROUP SHALL BE TESTED.
- OBTAIN APPROVAL OF ENGINEER PRIOR TO CUTTING AN OPENING IN ANY MEMBER.

**COATING**

- ALL STEEL SHALL BE SURFACE BLASTED (NEAR WHITE) IN ACCORDANCE THE LATEST SSPC SPECIFICATIONS AND COATED PER SPECIFICATIONS UNLESS NOTED OTHERWISE. AFTER ERECTION, CONTRACTOR SHALL TOUCH-UP ALL DAMAGED COATING AREAS DUE TO HANDLING TO PROVIDE A FULLY COATED FINISHED PRODUCT.
- ALL CONCRETE INSERTS, PENETRATIONS, AND OTHER STEEL ITEMS EMBEDDED IN CONCRETE SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
- ALL FIELD WELDS ARE TO BE COATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL PILES AND FRAMING MEMBERS LOCATED BELOW THE CONCRETE DECK SHALL BE COATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL STEEL FRAMING MEMBERS LOCATED ABOVE THE CONCRETE DECK SHALL BE COATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- TO MINIMIZE FIELD WELDING, POTENTIAL CORROSION, AND POSSIBLE DAMAGE TO THE COATING, CONTRACTOR SHALL COORDINATE WELDING OF CONDUIT SUPPORTS TO STRUCTURAL MEMBERS TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO SURFACE TREATMENT. WHERE PRE-INSTALLED SUPPORTS CAN NOT BE ACCOMMODATED, FIELD WELDING TO STRUCTURAL MEMBERS WILL BE ALLOWED WITH THE SAME SURFACE TREATMENT APPLIED. TREATMENT SHALL BE APPLIED OVER THE ENTIRE WELD AREA.

**HANDRAILS**

- ALL HANDRAILS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND THEN PAINTED "SAFETY YELLOW" UNLESS NOTED OTHERWISE.
- ALL WELD CONNECTIONS SHALL BE 3/16" FILLET (U.N.O.) AND SHALL BE IN ACCORDANCE WITH AWS D1.1 (LATEST) CODE.

**CONCRETE**

- CONCRETE MINIMUM COMPRESSIVE STRENGTH: AT 28 DAYS IS 5,000 PSI UNLESS OTHERWISE NOTED. CONCRETE SHALL CONFORM WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318. CEMENT SHALL BE TYPE II.
- CONCRETE WATER/CEMENT RATIO SHALL BE A MAXIMUM OF .40
- CURING - CONCRETE SHALL BE KEPT IN MOIST CONDITION FOR AT LEAST SEVEN (7) DAYS AFTER PLACEMENT, OR USE AN ALTERNATIVE APPROVED CURING METHOD.
- AT LEAST ONE SET OF EIGHT (8) TEST SPECIMENS SHALL BE COLLECTED FOR EACH 100 CUBIC YARDS OR FRACTIONS THEREOF PLACED IN ANY ONE DAY. TWO TEST SPECIMENS ARE TO BE TESTED AT SEVEN (7) DAYS, TWO AT TWENTY-EIGHT (28) DAYS, AND THE OTHER (4) HELD TO BE TESTED AS REQUIRED BY THE ENGINEER.
- CONCRETE FOR STRUCTURES SHALL BE PLACED MONOLITHICALLY UNLESS NOTED OTHERWISE.
- CHAMFER ALL EXPOSED EXTERNAL CORNERS 3/4" WITH A 45° CHAMFER UNLESS NOTED OTHERWISE.
- ALL CONCRETE SHALL BE THOROUGHLY COMPACTED BY MECHANICALLY VIBRATING OR HAND POUNDING, AND SHALL BE THOROUGHLY WORKED AROUND THE REINFORCEMENT AND INTO ALL CORNERS OF THE FORMS.
- ALL CONCRETE DECKS SHALL HAVE A BROOMED FINISH UNLESS NOTED OTHERWISE.
- GROUT SHALL BE FIVE STAR GROUT-HIGH PERFORMANCE NON-SHRINK GROUT, UNLESS NOTED OTHERWISE.

**STEEL PILES**

- ALL STEEL PILING (EXCEPT ROLLED SECTIONS) MATERIAL SHALL BE PIPE CONFORMING TO API 5L-X52 OR ASTM A252 GR. 3 UNLESS NOTED OTHERWISE. ROLLED SECTION PILES SHALL CONFORM TO ASTM A572 (GRADE 50), UNLESS OTHERWISE NOTED.
- ALL SPLICES SHALL BE MADE WITH COMPLETE FULL PENETRATION WELDS DEVELOPING THE FULL STRENGTH OF THE SECTION.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING PILES OF SUFFICIENT LENGTH TO ACCOUNT FOR THE ADDED LENGTH REQUIRED FOR THE HAMMER IN USE AND FOR CUTOFF SUCH THAT THE FINAL, DRIVEN, CUTOFF PILE IS THE LENGTH SHOWN ON THE DRAWINGS.

**PILE DRIVING**

- ALL PILES SHALL BE DRIVEN THEIR ENTIRE LENGTH TO THE DESIGN "TIP OF PILE" ELEVATIONS INDICATED ON THE DRAWINGS. THE FINAL 20 FT OF PENETRATION SHALL BE ACHIEVED WITH AN IMPACT HAMMER.
- THE LENGTH OF THE PILE SHOWN ON THE DRAWINGS IS THE TRUE LENGTH MEASURED ALONG THE CENTERLINE AXIS OF THE PILE AND IS THE LENGTH REQUIRED AFTER THE PILE IS DRIVEN AND CUTOFF (IF NECESSARY) IS ACCOMPLISHED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING DRIVABILITY ANALYSIS THAT ACCURATELY REFLECTS CONTRACTOR'S PROPOSED DRIVING SYSTEM. PILE DRIVING CRITERIA SHALL SPECIFY THE MINIMUM ACCEPTABLE BLOWS PER FOOT NOT TO EXCEED 100 BLOWS PER FOOT.

**REINFORCING STEEL AND ANCHOR BOLTS**

- REINFORCING BARS SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GR 60, OR A706GR60, UNLESS NOTED OTHERWISE.
- ALL REBAR SPLICES SHALL BE IN ACCORDANCE WITH ACI 318, LATEST EDITION.
- PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH REQUIREMENTS OF ACI 315, UNLESS NOTED OTHERWISE.
- FABRICATION OF BARS INCLUDING BENDS AND HOOKS SHALL CONFORM TO ACI 315. ALL BENDS SHALL BE MADE COLD UNLESS NOTED OTHERWISE.
- BARS SHALL BE SECURELY TIED IN PLACE WITH 16-GAGE BLACK ANNEALED TIE WIRE AND SUPPORTED ON APPROVED STEEL CHAIRS OR PRECAST CONCRETE SADDLES.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GR. 55 AND GALVANIZED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

**SHOP DRAWINGS**

- SHOP DRAWINGS MUST BE PROVIDED AND REVIEWED BY ENGINEER PRIOR TO FABRICATION.

**SURVEY**

- HORIZONTAL DATUM REFERENCED TO NAD 83, LOUISIANA SOUTH, US SURVEY FEET.
- ALL ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS AND ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVDB8) USING GEOID 18.

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PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA  
UNDER DOCK REFURBISHMENT  
GENERAL NOTES

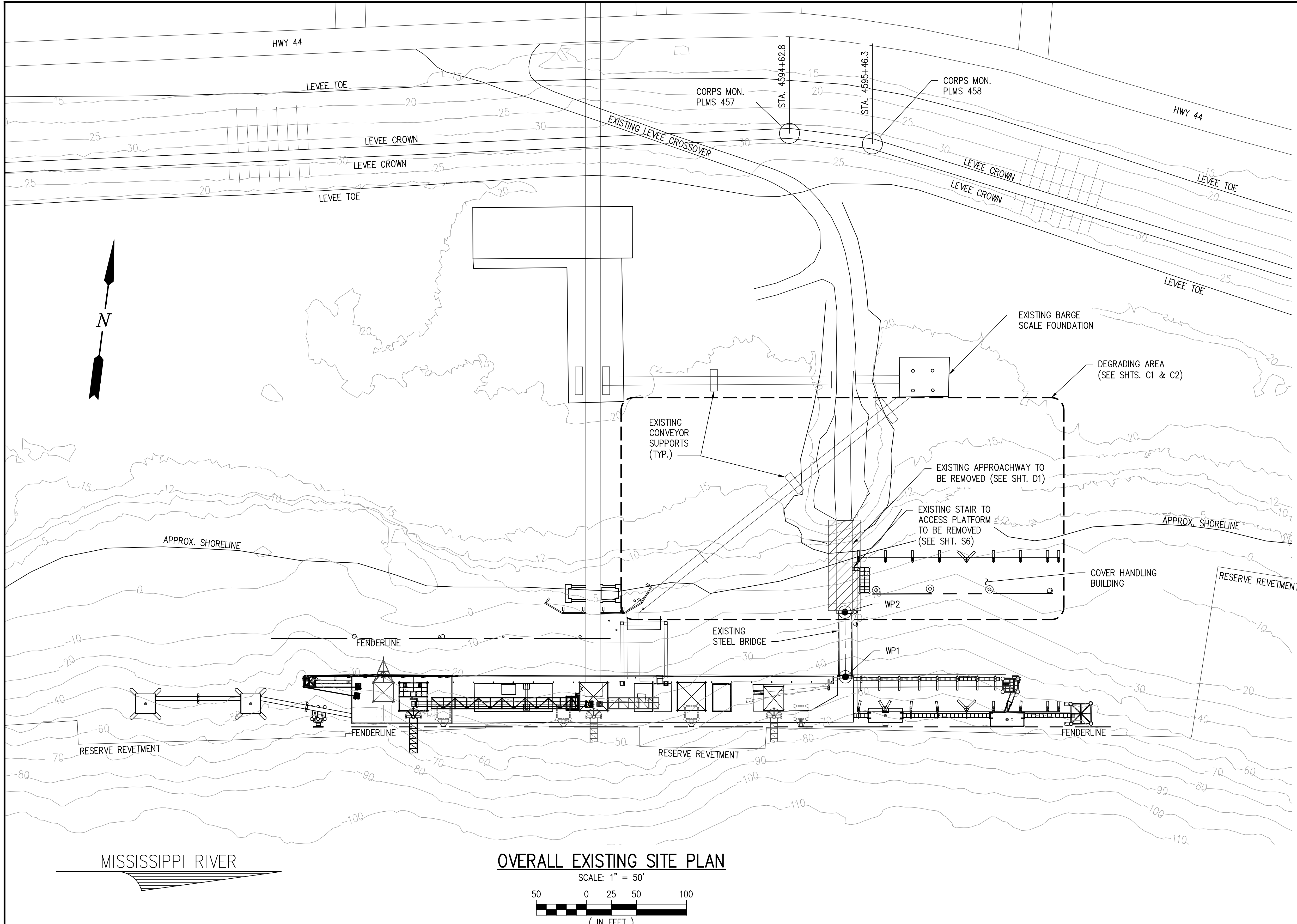
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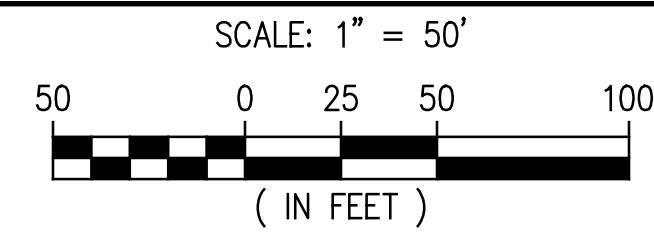
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**NOTES:**

- FOR DRAWING INDEX SEE SHT. CS2.
- FOR GENERAL NOTES SEE SHT. CS3.
- TOPOGRAPHIC SURVEY REFERENCES UAS LIDAR DATA COLLECTED BY LANIER & ASSOCIATES ON JULY 20, 2021.
- ADDITIONAL TOPOGRAPHIC SURVEY PERFORMED BY LANIER & ASSOCIATES ON JUNE 6, 2023.
- HYDROGRAPHIC SURVEY REFERENCES DATA COLLECTED BY USACE IN 2022 AND 2013.
- HORIZONTAL DATUM REFERENCED TO NAD83, LOUISIANA SOUTH, U.S. SURVEY FEET.
- ALL ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS AND ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) GEOID 18.
- THE AREA ON THE DRAWING IS SUBJECT TO SILTING. THE ACTUAL ELEVATIONS FOLLOWING THE DATE OF THIS SURVEY MAY DIFFER FROM THE ELEVATIONS SHOWN.
- THIS DRAWING DOES NOT MEET THE DEFINITION OF A PROPERTY BOUNDARY SURVEY UNDER §105.A, PRACTICE OF LAND SURVEYING.



**OVERALL EXISTING SITE PLAN**



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J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\STRUC\11832-SP1.DWG

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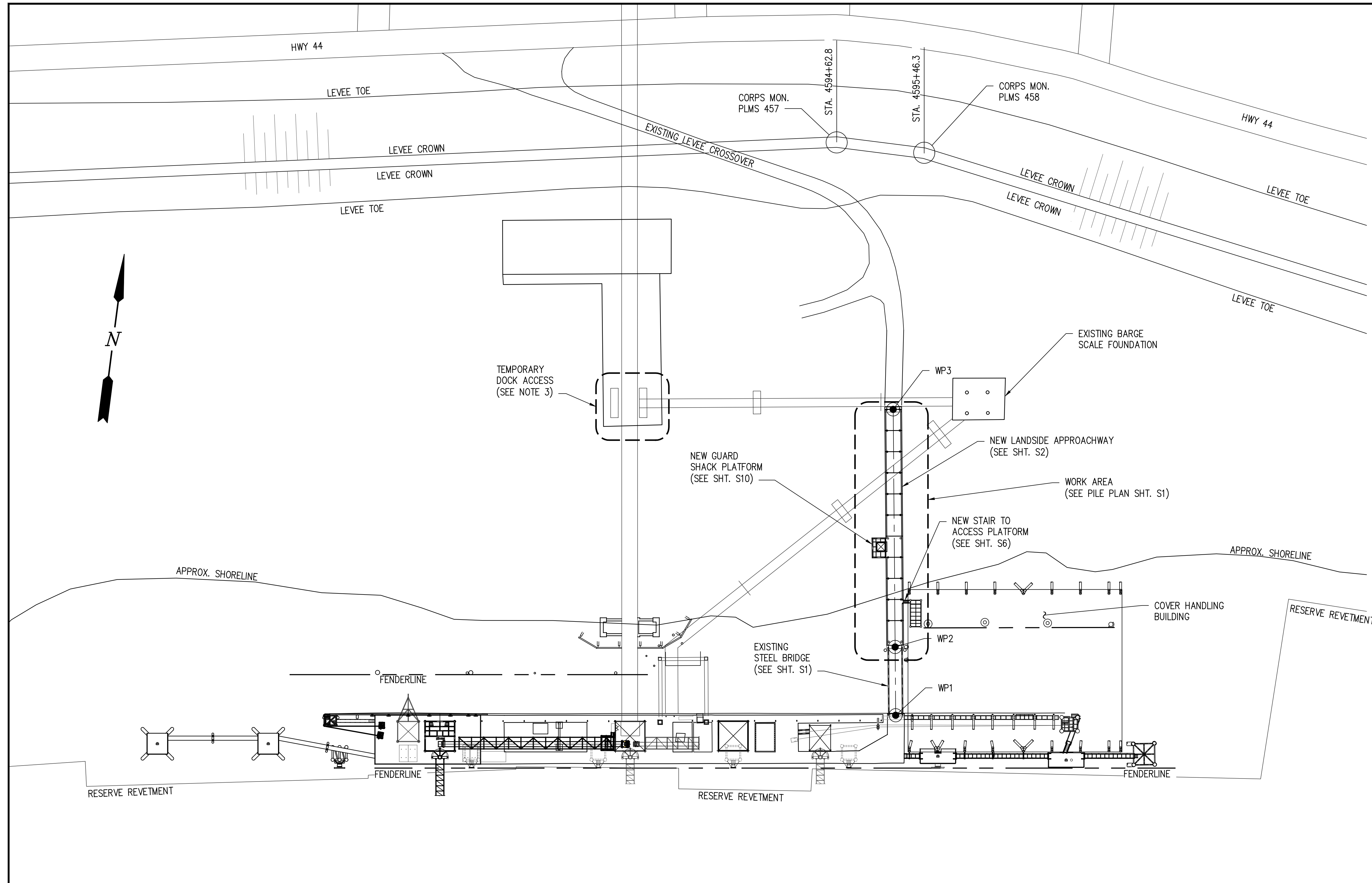
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			SP1

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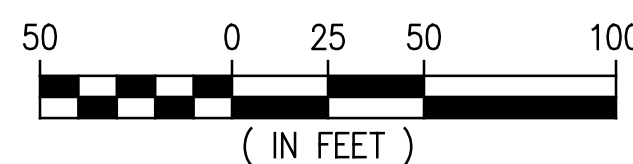
**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.
3. CONTRACTOR TO REMOVE GRATING IN GALLERY FLOOR FOR TEMPORARY DOCK ACCESS. LOCATION TO BE COORDINATED WITH SCAFFOLDING CONTRACTOR.



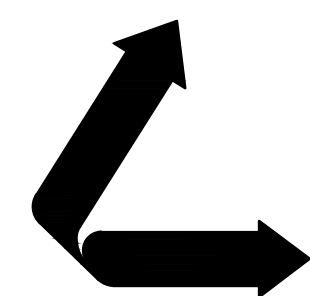
**OVERALL NEW SITE PLAN**

SCALE: 1" = 50'



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UNDER DOCK REFURBISHMENT		
OVERALL NEW SITE PLAN		

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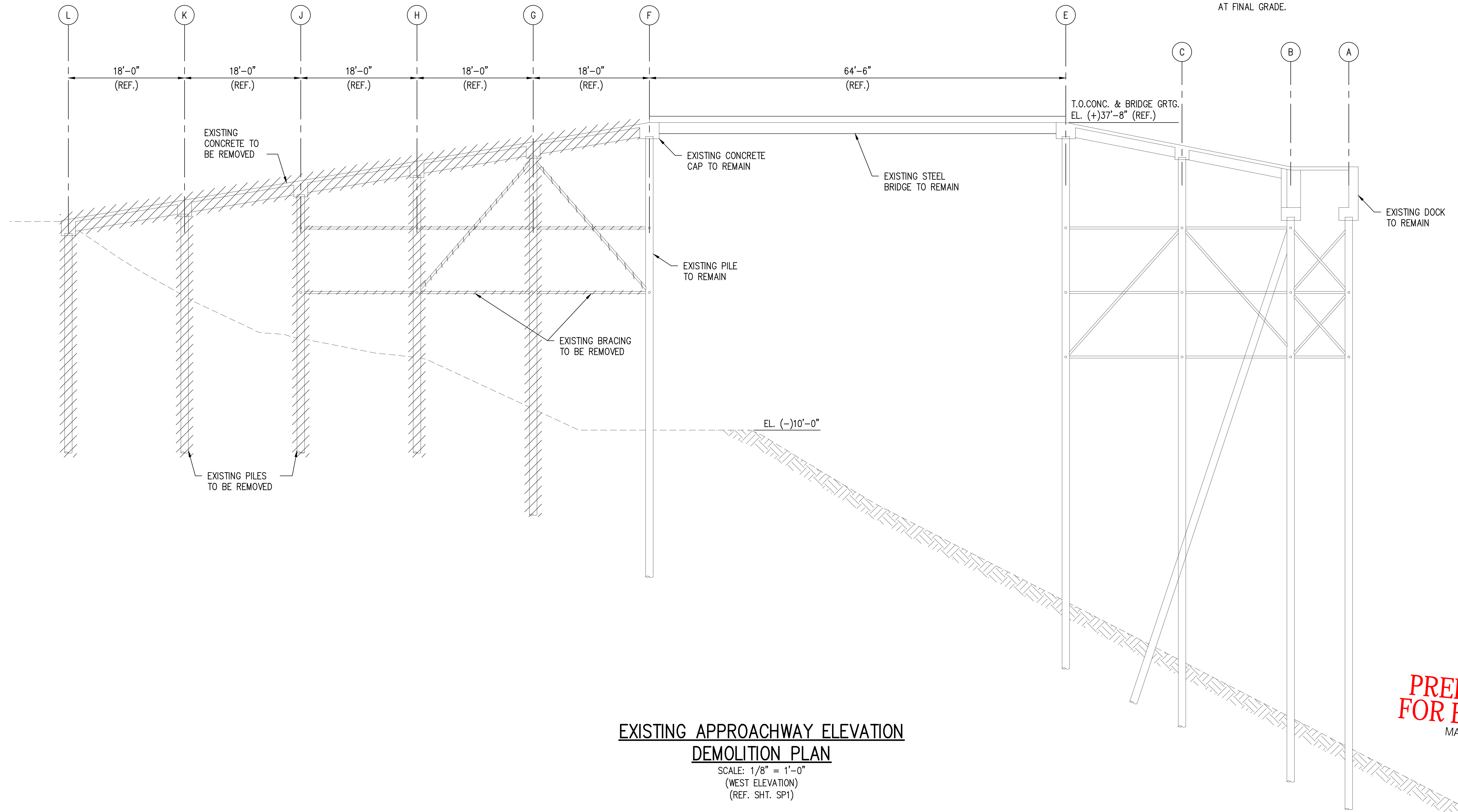
3/26/2024 2:19 PM

J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\STRUC\11832-D1.DWG

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	9

**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.
3. DIFFERENCES IN ELEVATIONS BETWEEN ORIGINAL DESIGN DRAWINGS AND RECENT SURVEY ARE DUE TO A COMBINATION OF SETTLEMENT AND DATUM CHANGES.
4. EXISTING PILES TO BE DEMOLISHED SHALL BE CUT AT FINAL GRADE.



**EXISTING APPROACHWAY ELEVATION  
DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"  
(WEST ELEVATION)  
(REF. SHT. SP1)

**PRELIMINARY  
FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES  
CONSULTING ENGINEERS, INC.**  
LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION
A	03/27/24	AKG	ISSUED FOR BIDS

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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO.	11832-1

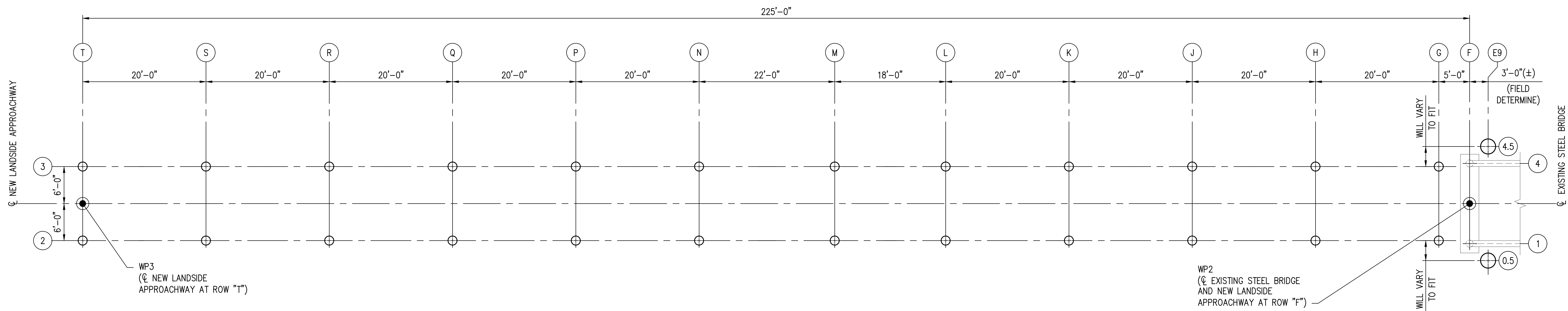
PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA  
**UNDER DOCK REFURBISHMENT  
EXISTING APPROACHWAY ELEVATION  
DEMOLITION PLAN**

SHEET NO. <b>D1</b>
------------------------

**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.

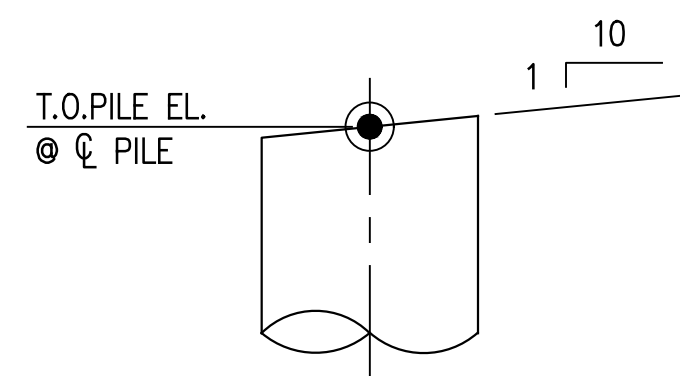
STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	10



**NEW LANDSIDE APPROACHWAY PILE PLAN**

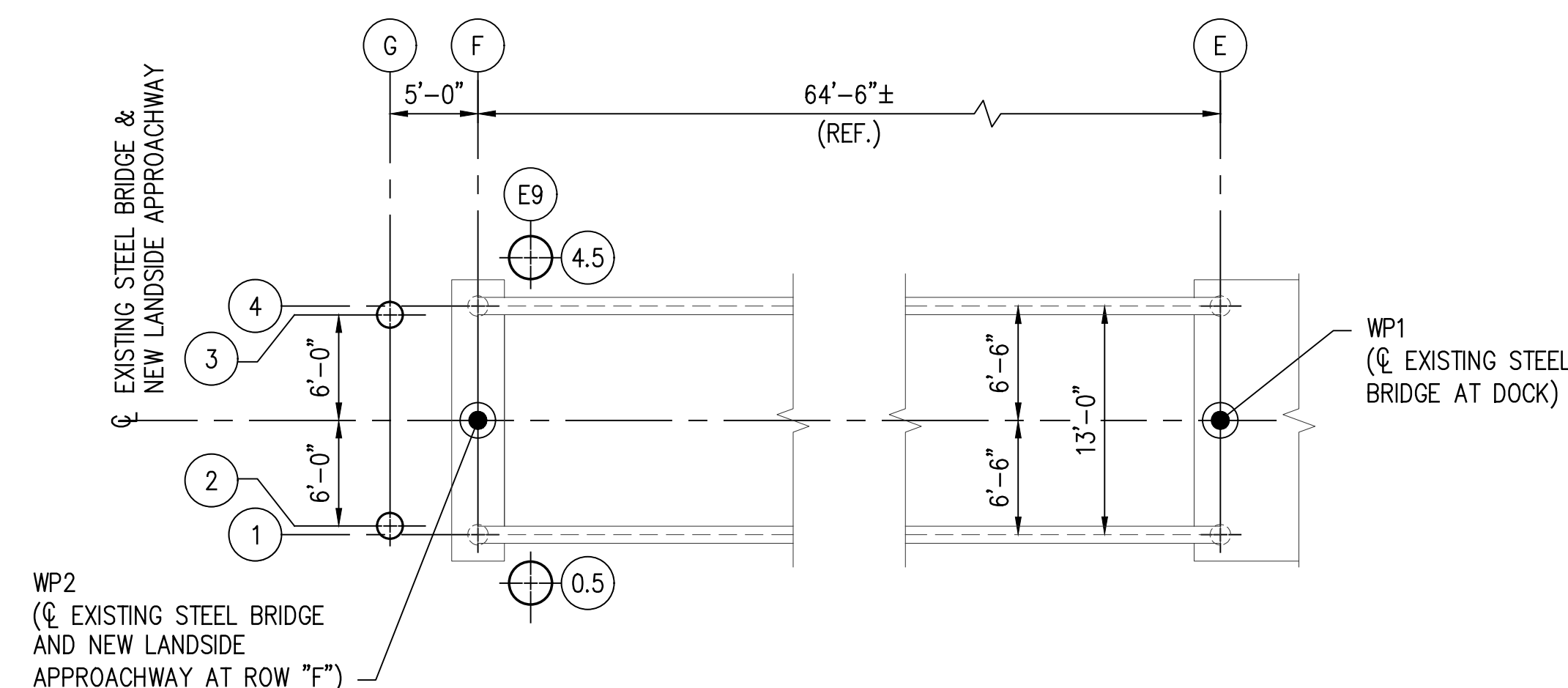
SCALE: 1/8" = 1'-0"  
(REF. SHT. SP2)

PILE SCHEDULE					
PILE DESIGNATION	PILE SIZE	TIP ELEVATION	CUTOFF ELEVATION (@ $\phi$ PILE)	TRUE BATTER	COATING LENGTH
APPROACHWAY					
E9-4.5 - E9-0.5	30" $\phi$ x 0.6250"	(-)115'-0"	(+)34'-6"	PLUMB	60'-0"
G2 - G3	18" $\phi$ x 0.500"	(-)115'-0"	(+)35'-0 <sup>3</sup> / <sub>4</sub> "	PLUMB	60'-0"
H2 - H3	18" $\phi$ x 0.500"	(-)115'-0"	(+)35'-0 <sup>3</sup> / <sub>4</sub> "	PLUMB	60'-0"
J2 - J3	18" $\phi$ x 0.500"	(-)115'-0"	(+)35'-0 <sup>3</sup> / <sub>4</sub> "	PLUMB	60'-0"
K2 - K3	18" $\phi$ x 0.500"	(-)115'-0"	(+)35'-0 <sup>3</sup> / <sub>4</sub> "	PLUMB	60'-0"
L2 - L3	18" $\phi$ x 0.500"	(-)115'-0"	(+)35'-0 <sup>3</sup> / <sub>4</sub> "	PLUMB	45'-0"
M2 - M3	18" $\phi$ x 0.500"	(-)115'-0"	(+)35'-0 <sup>3</sup> / <sub>4</sub> "	PLUMB	45'-0"
N2 - N3	18" $\phi$ x 0.500"	(-)75'-0"	(+)33'-0 <sup>5</sup> / <sub>8</sub> "	PLUMB	45'-0"
P2 - P3	18" $\phi$ x 0.500"	(-)75'-0"	(+)31'-0 <sup>5</sup> / <sub>8</sub> "	PLUMB	45'-0"
Q2 - Q3	18" $\phi$ x 0.500"	(-)75'-0"	(+)29'-0 <sup>5</sup> / <sub>8</sub> "	PLUMB	45'-0"
R2 - R3	18" $\phi$ x 0.500"	(-)75'-0"	(+)27'-0 <sup>5</sup> / <sub>8</sub> "	PLUMB	10'-0"
S2 - S3	30" $\phi$ x 0.625"	(-)75'-0"	(+)25'-0 <sup>5</sup> / <sub>8</sub> "	PLUMB	10'-0"
ABUTMENT					
T2 - T3	18" $\phi$ x 0.500"	(-)75'-0"	(+)21'-10 <sup>5</sup> / <sub>8</sub> "	PLUMB	10'-0"



**CUT-OFF DETAIL**

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



**EXISTING STEEL BRIDGE PLAN**

SCALE: 1/8" = 1'-0"  
(REF. SHT. SP2)

\* SEE CUT-OFF DETAIL THIS SHEET

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MARCH 27, 2024

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VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
				A	03/27/24	AKG	ISSUED FOR BIDS

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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	CAP
CHECK	CLO
APPR'D	AKG
JOB NO	11832-1

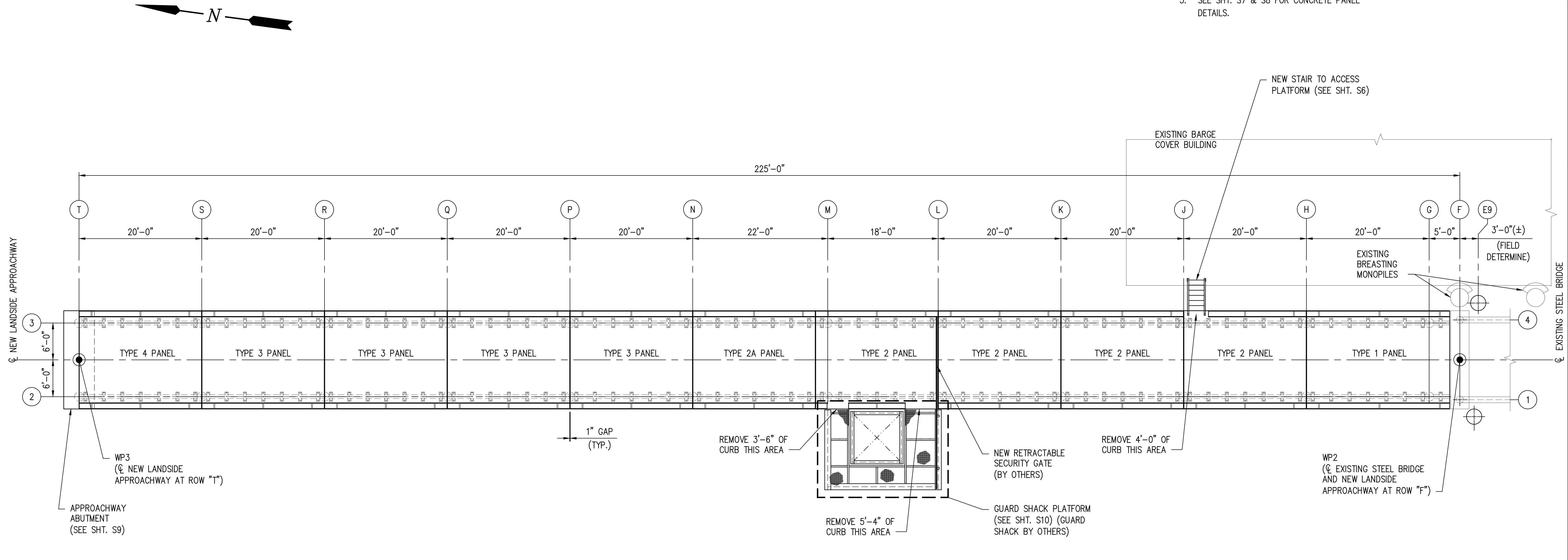
PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA  
UNDER DOCK REFURBISHMENT  
NEW LANDSIDE APPROACHWAY  
PILE PLAN

SHEET NO.
<b>S1</b>

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	11

**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.
3. SEE SHT. S7 & S8 FOR CONCRETE PANEL DETAILS.



**NEW LANDSIDE APPROACHWAY CONCRETE PLAN**

SCALE: 1/8" = 1'-0"  
(REF. SHT. SP2)

**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES CONSULTING ENGINEERS, INC.**  
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 VF-185 LSF-10194817  
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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO	11832-1

PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA

**UNDER DOCK REFURBISHMENT  
NEW LANDSIDE APPROACHWAY  
CONCRETE PLAN**

SHEET NO.
<b>S2</b>



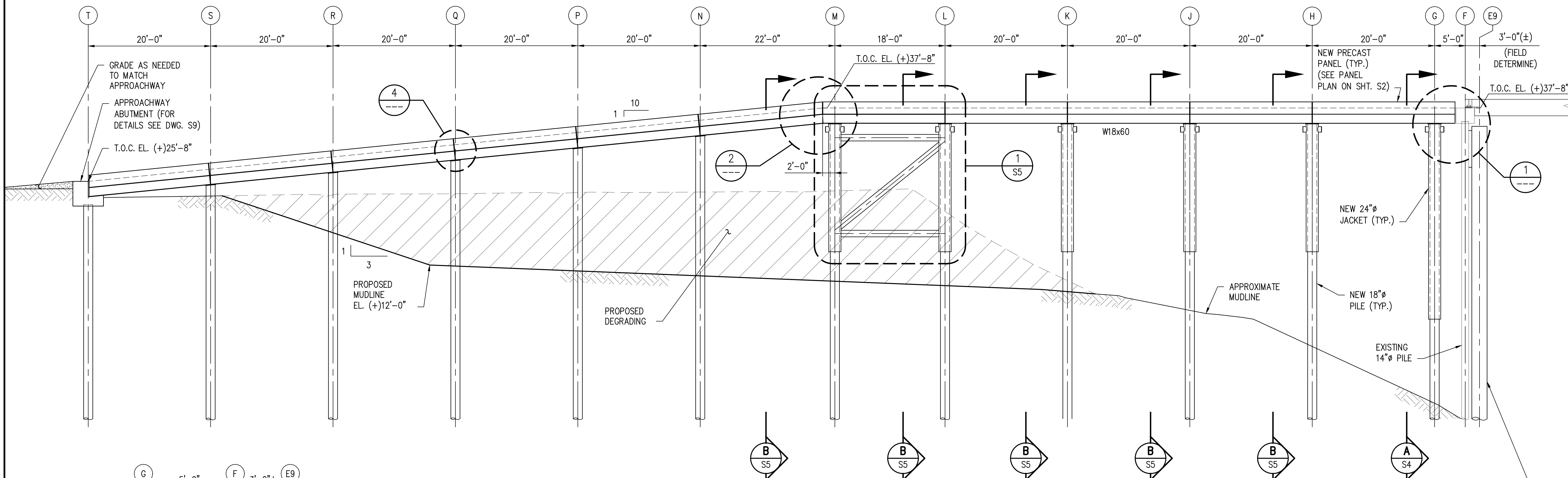
3/26/2024 2:19 PM

J:\11000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\STRUC\11832-S3.DWG

NOTES:

- 1. FOR DRAWING INDEX SEE SHT. CS2.
- 2. FOR GENERAL NOTES SEE SHT. CS3.

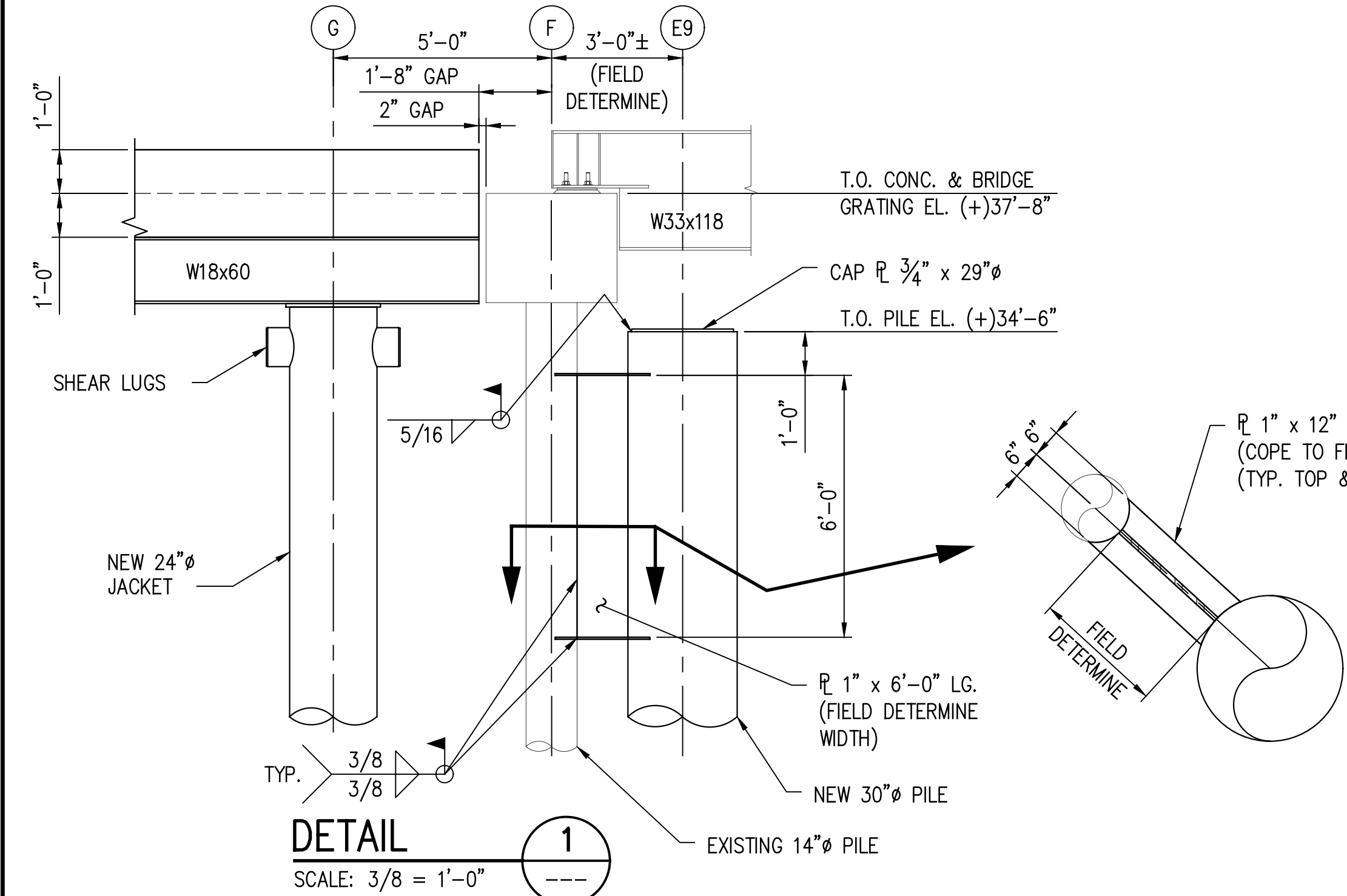
STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	12



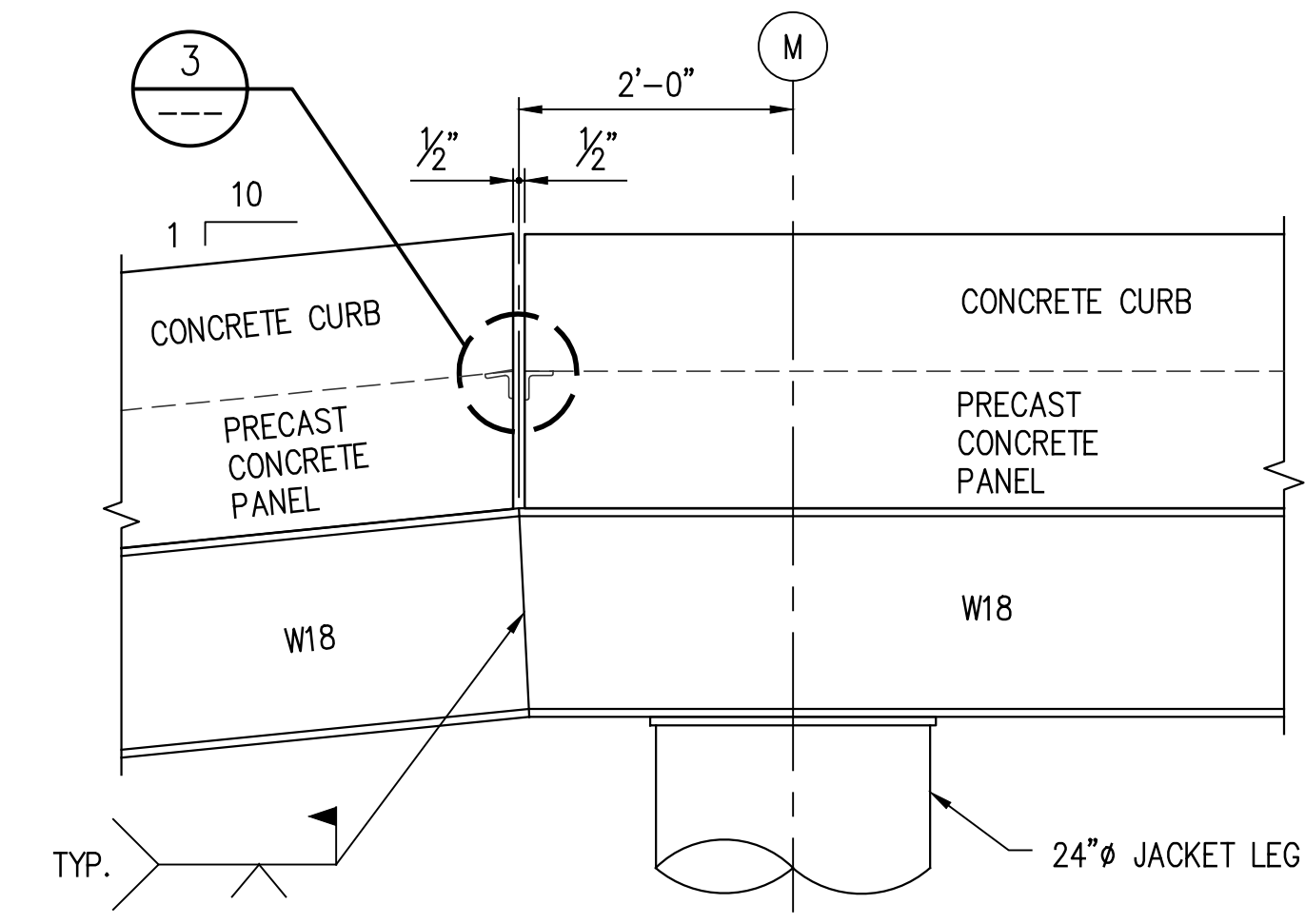
NEW LANDSIDE APPROACHWAY - ELEVATION

SCALE: 1/8" = 1'-0" (WEST ELEVATION)

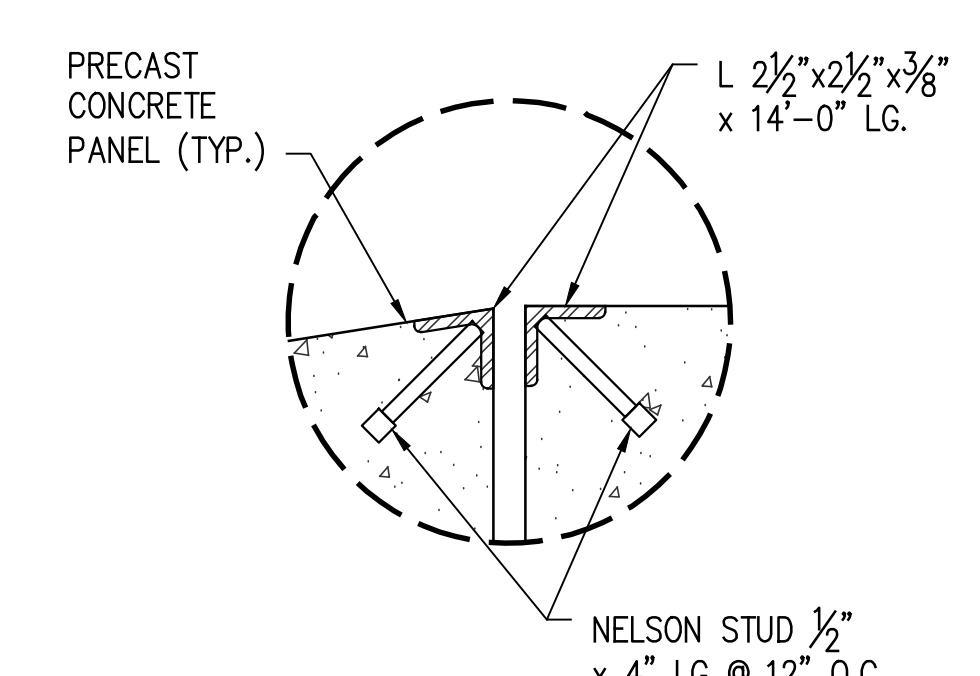
PRELIMINARY FOR BIDS ONLY  
MARCH 27, 2024



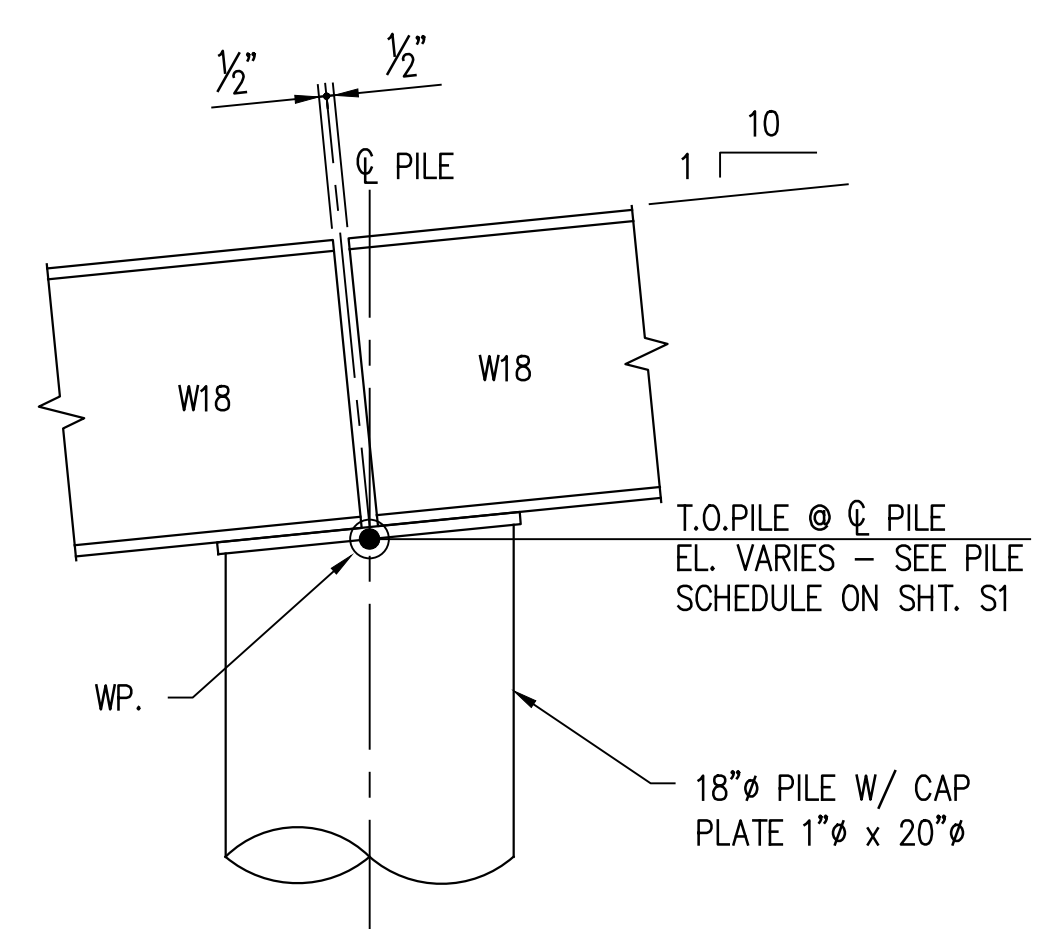
DETAIL 1  
SCALE: 3/8" = 1'-0"



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



DETAIL 3  
SCALE: 2" = 1'-0"



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

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 VF-185 LSF-10194817  
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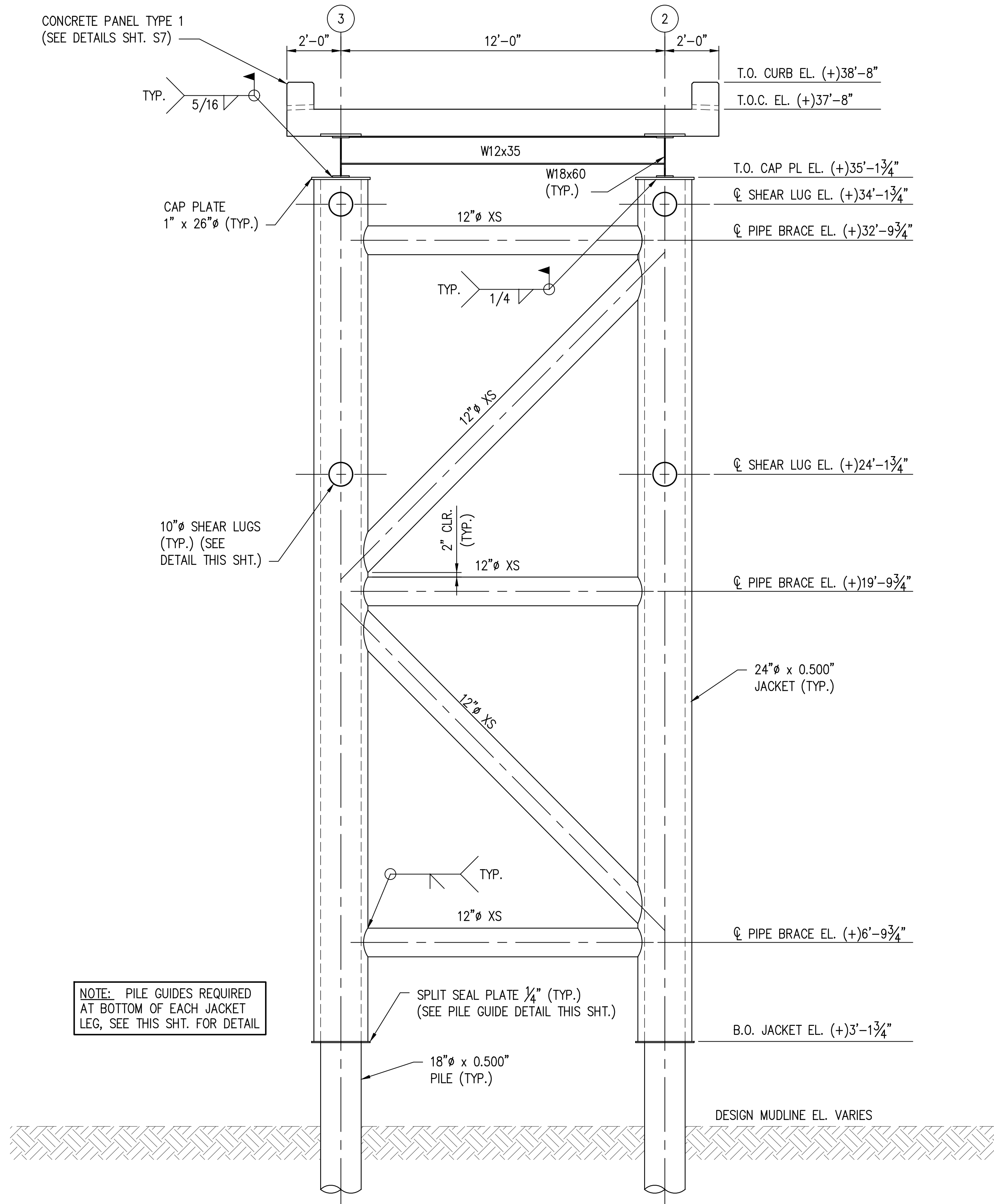
REV	DATE	BY	DESCRIPTION
A	03/27/24	AKG	ISSUED FOR BIDS

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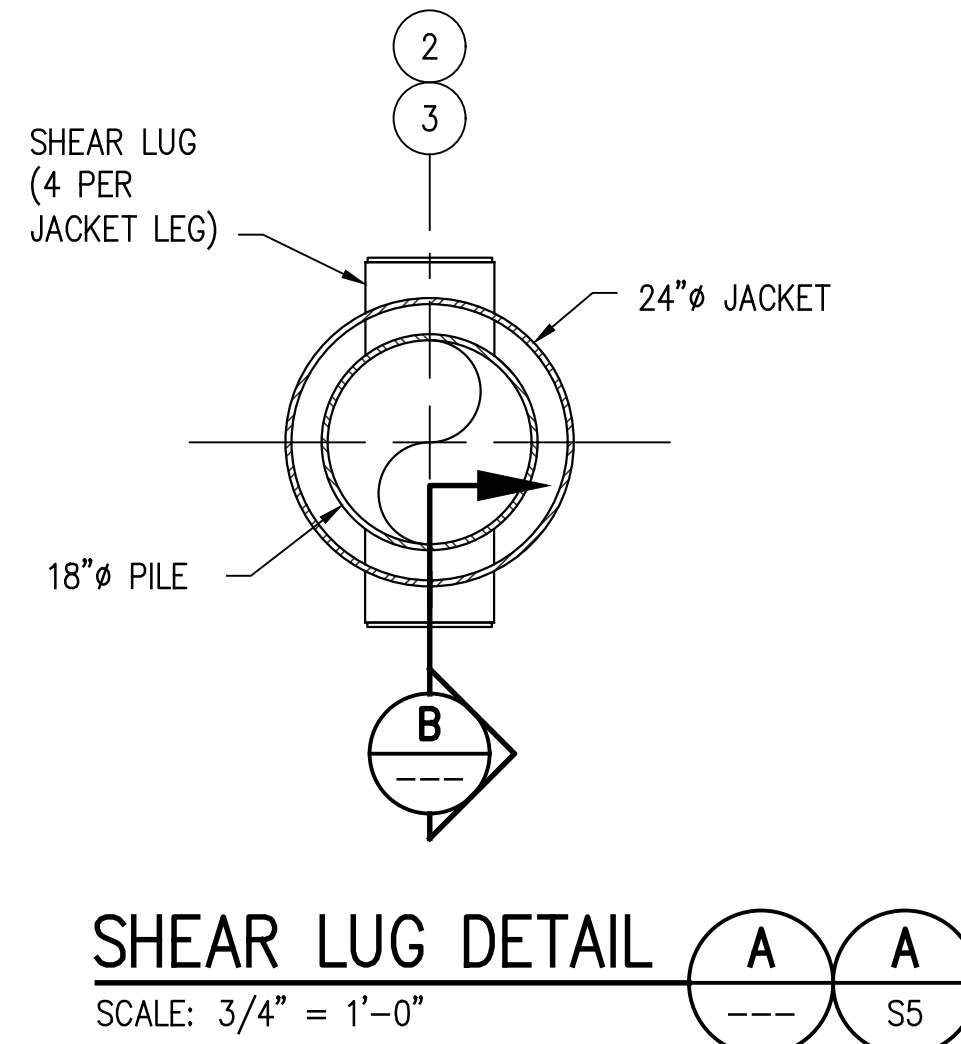
DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO.	11832-1

PORT OF SOUTH LOUISIANA  
 RESERVE LOUISIANA  
 UNDER DOCK REFURBISHMENT  
 NEW LANDSIDE APPROACHWAY  
 ELEVATION & DETAILS

SHEET NO.  
**S3**

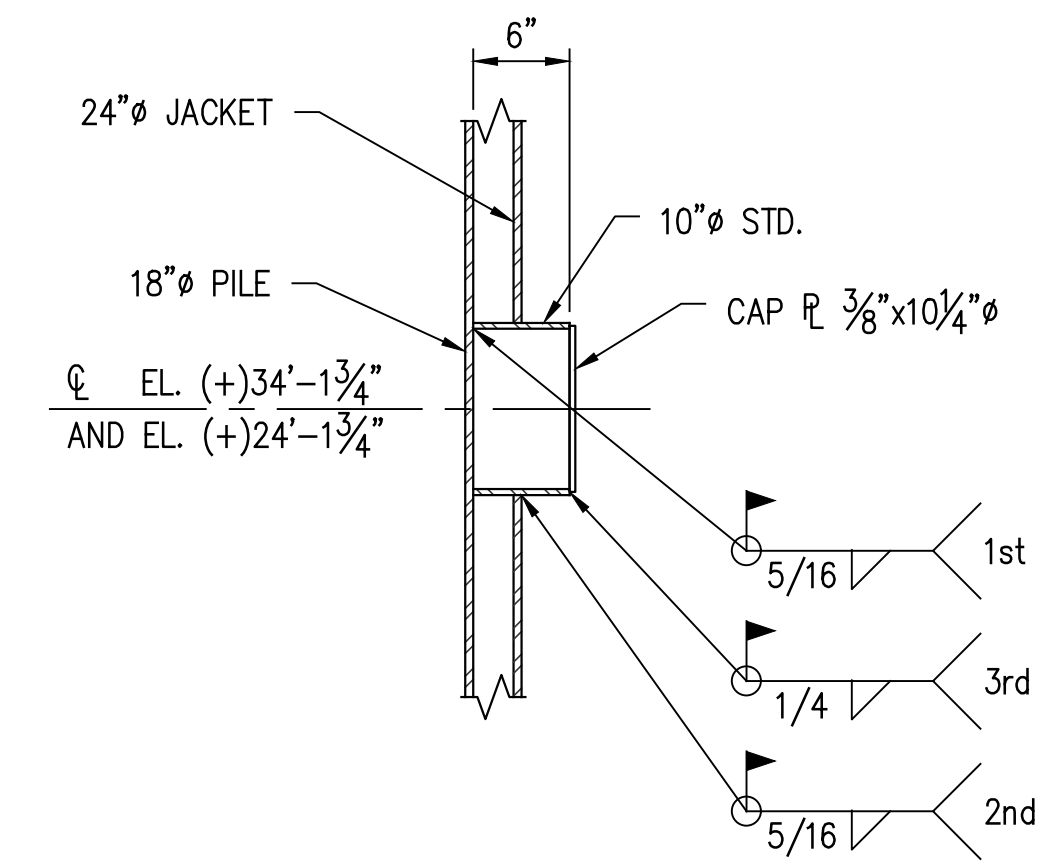


**SECTION A**  
SCALE: 3/8" = 1'-0" S3



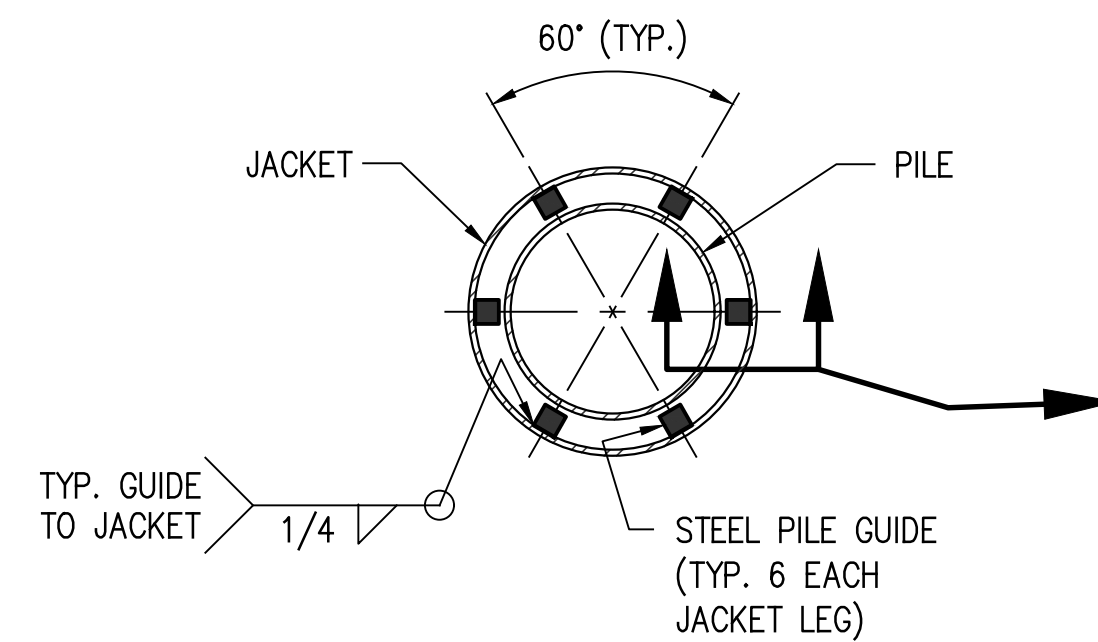
**SHEAR LUG DETAIL**

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



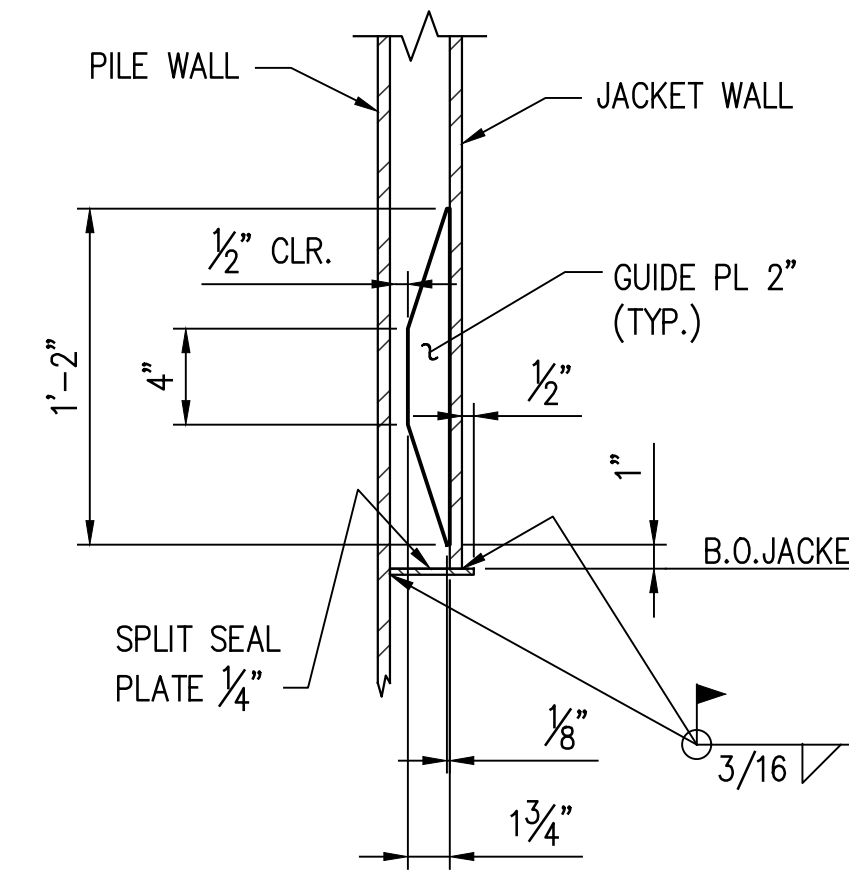
**SECTION B**

SCALE: 1" = 1'-0"



**TYPICAL PILE GUIDE DETAIL - PLAN**

SCALE: 3/4" = 1'-0"  
(REF. SHTS. S4 & S5)



**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	13

**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

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REV	DATE	BY	DESCRIPTION
A	03/27/24	AKG	ISSUED FOR BIDS

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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO.	11832-1

PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA

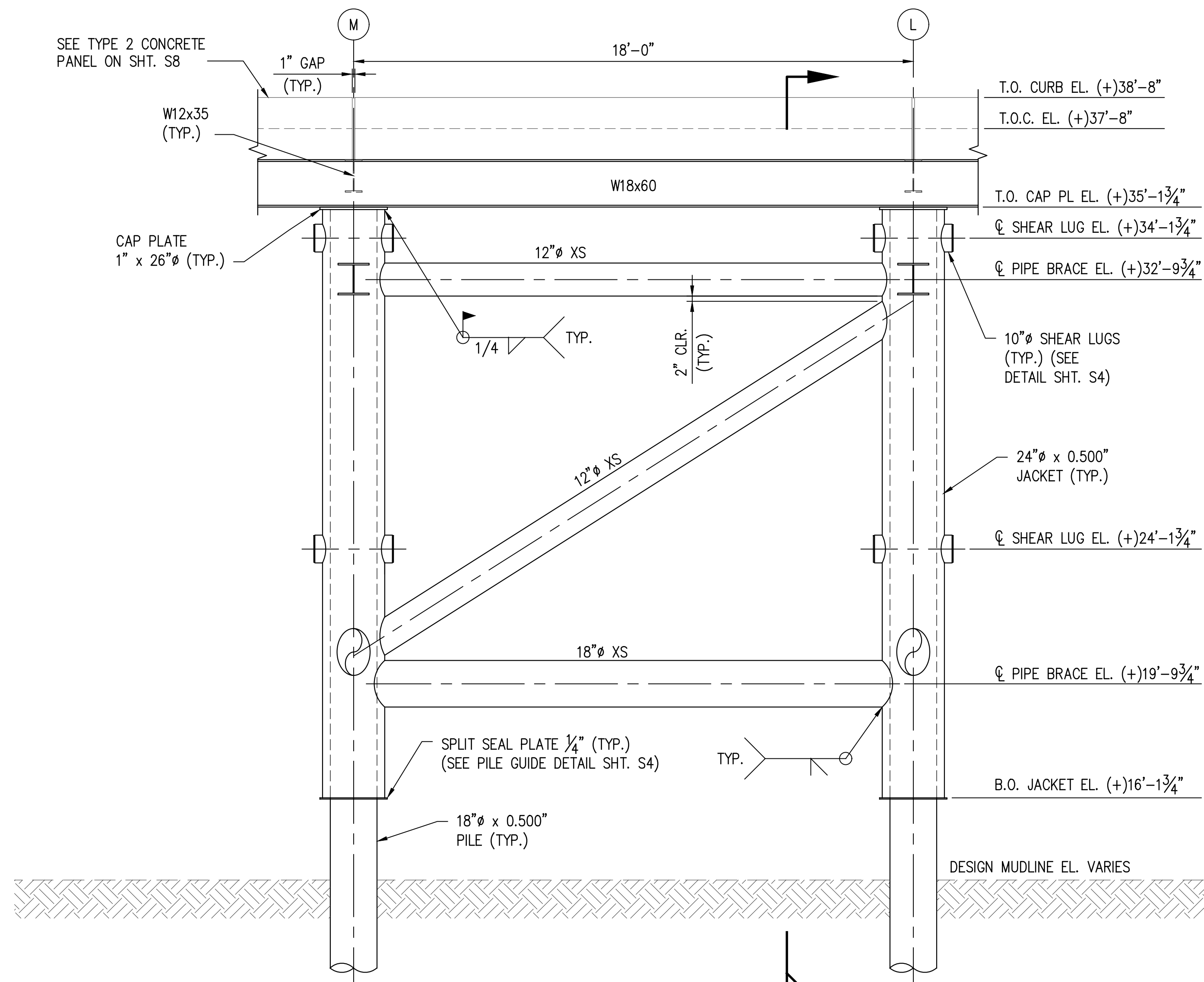
**UNDER DOCK REFURBISHMENT  
NEW LANDSIDE APPROACHWAY  
SECTIONS AND DETAIL**

SHEET NO.
<b>S4</b>

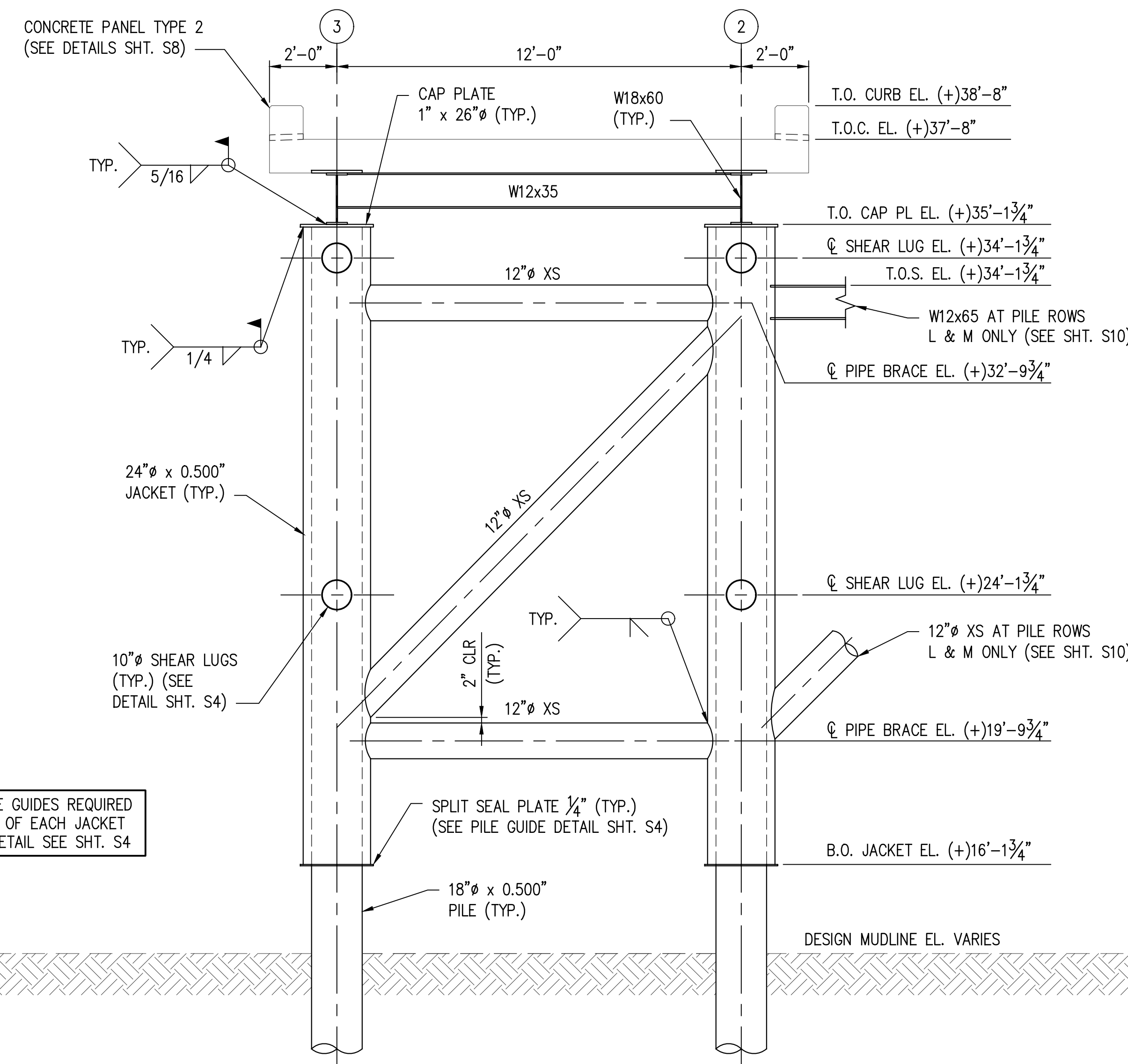
**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	15



**DETAIL**  
SCALE: 3/8" = 1'-0"  
1  
S3



NOTE: PILE GUIDES REQUIRED AT BOTTOM OF EACH JACKET LEG, FOR DETAIL SEE SHT. S4

**SECTION**  
SCALE: 3/8" = 1'-0"  
(TYP. 5 PLACES)  
B B  
S3

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MARCH 27, 2024

**LANIER & ASSOCIATES CONSULTING ENGINEERS, INC.**  
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VF-185 LSF-10194817  
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REV	DATE	BY	DESCRIPTION
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DATE FEB' 23  
SHT SIZE 22"x34"  
DESIGN AKG  
DRAWN MEW  
CHECK CLO  
APPR'D AKG  
JOB NO. 11832-1

PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA

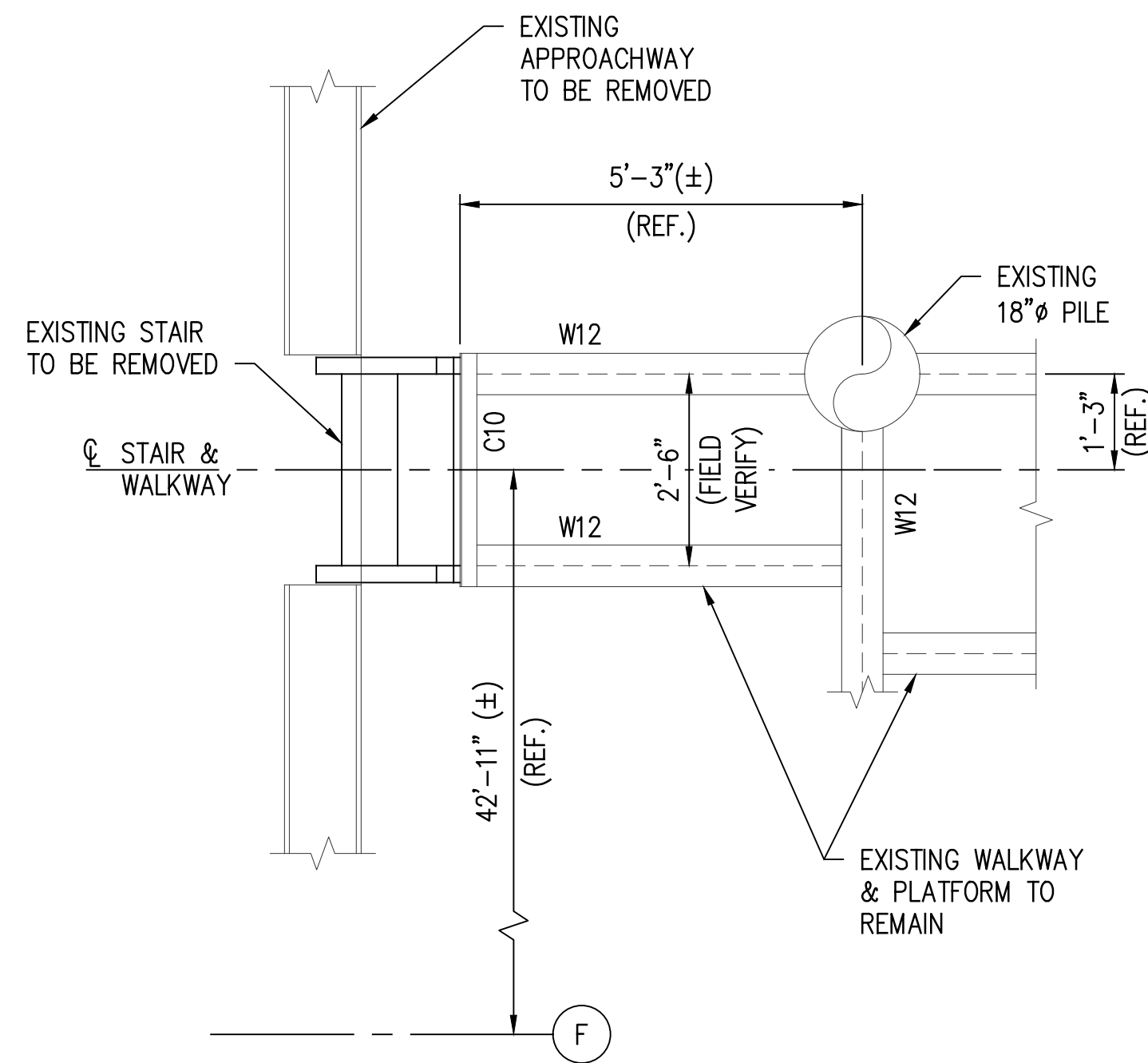
UNDER DOCK REFURBISHMENT  
NEW LANDSIDE APPROACHWAY  
DETAIL AND SECTION

SHEET NO.
<b>S5</b>

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	14

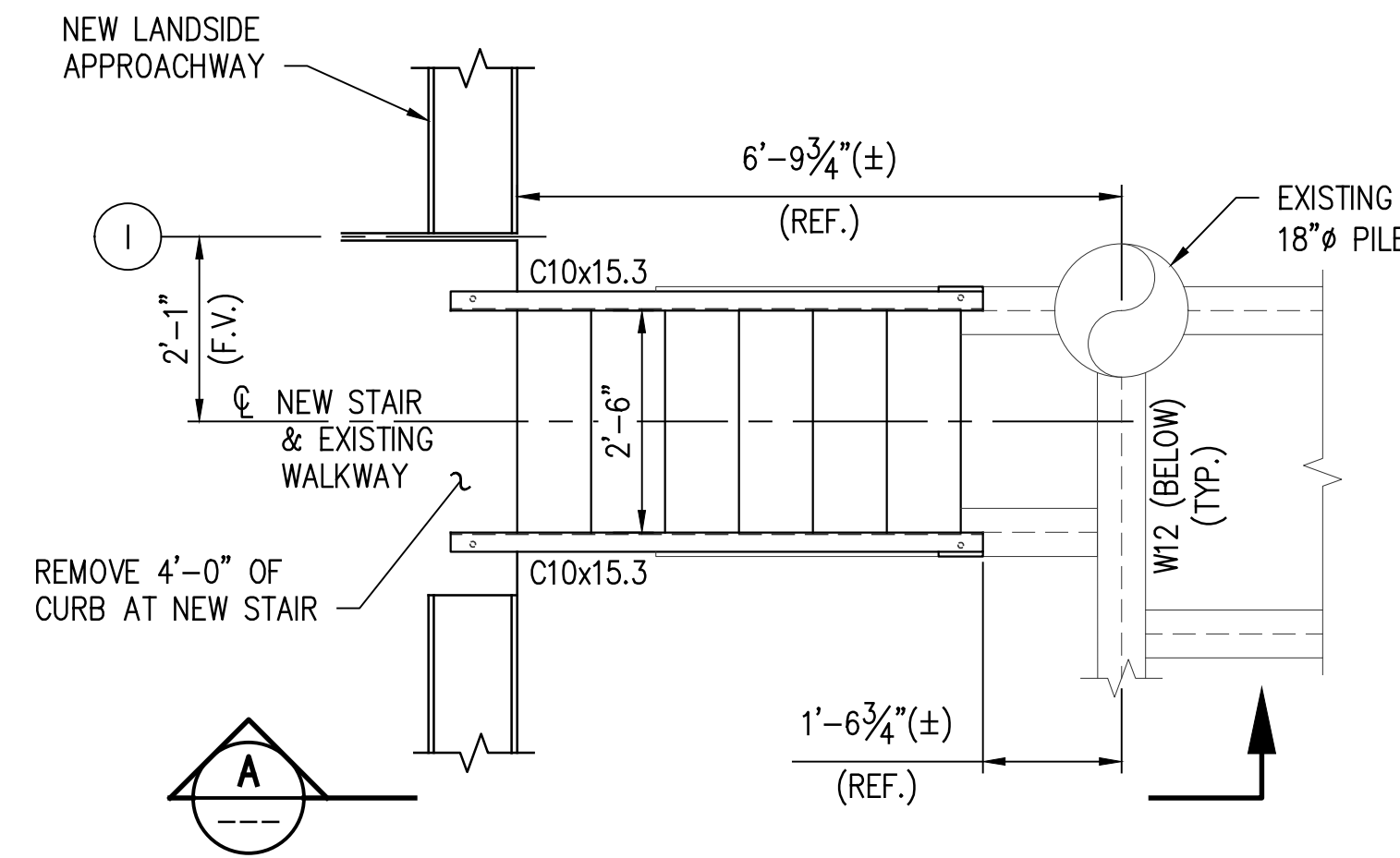
**NOTES:**

- FOR DRAWING INDEX SEE SHT. CS2.
- FOR GENERAL NOTES SEE SHT. CS3.



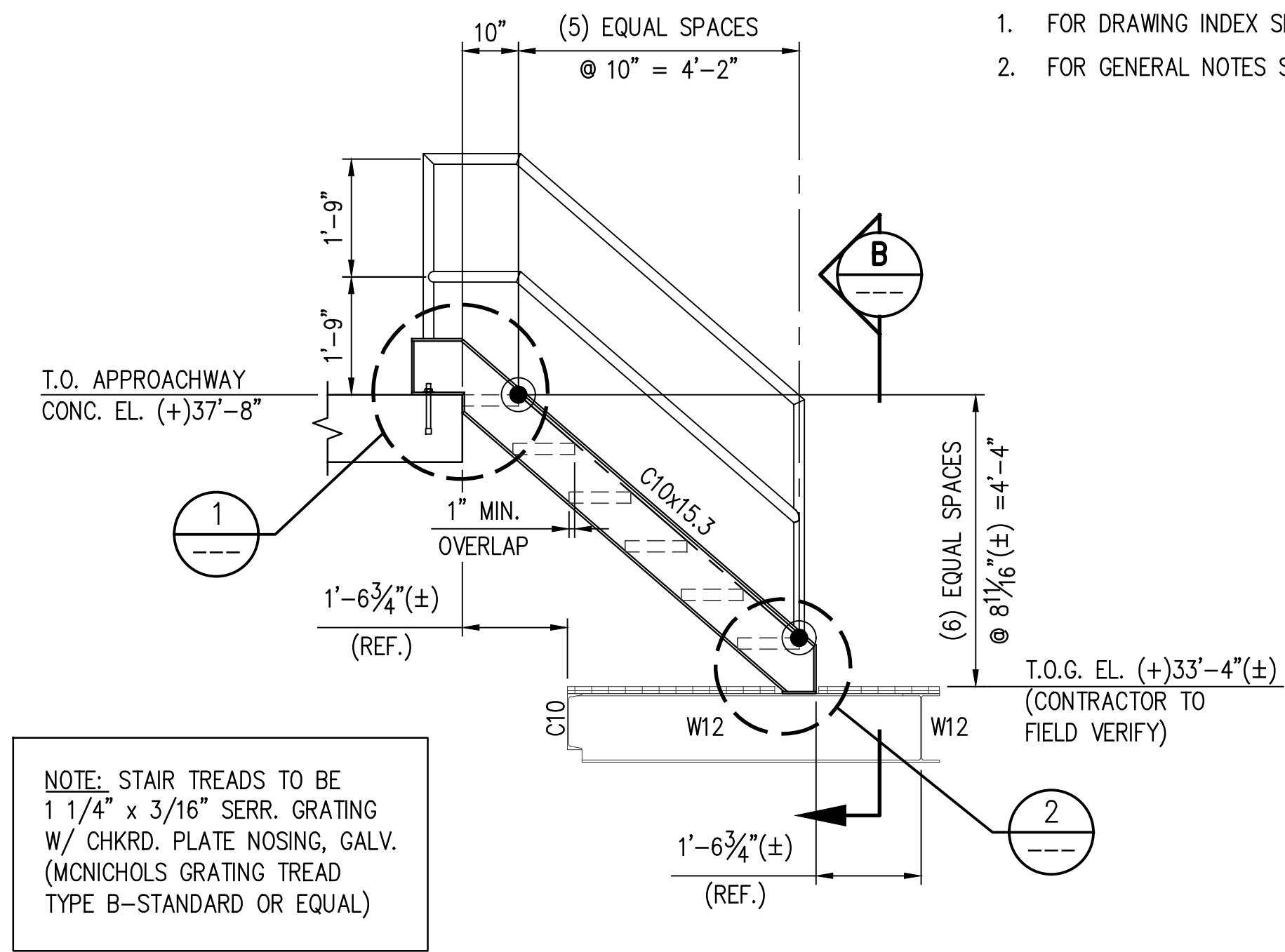
**EXISTING ACCESS PLATFORM WALKWAY DEMOLITION PLAN**

SCALE: 1/2" = 1'-0"  
(REF. SHT. SP1)



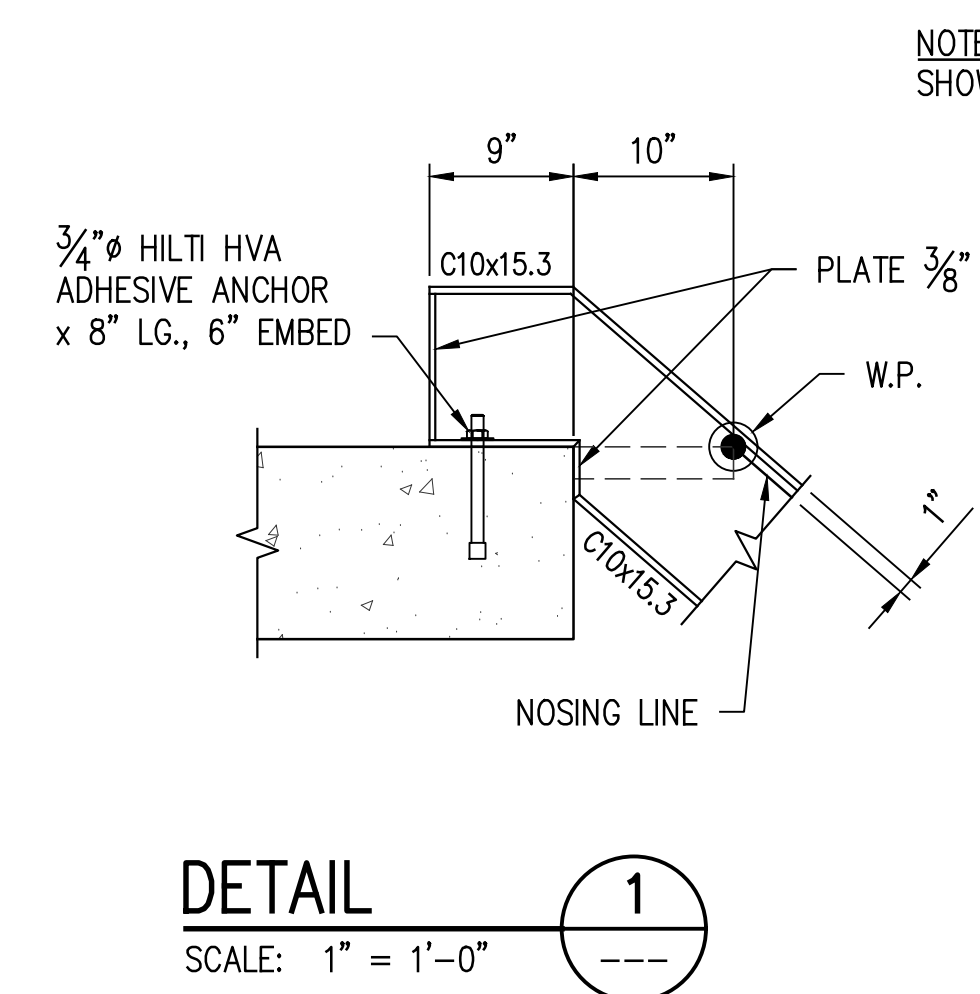
**NEW ACCESS PLATFORM WALKWAY PLAN**

SCALE: 1/2" = 1'-0"  
(REF. SHTS. SP2 & S2)



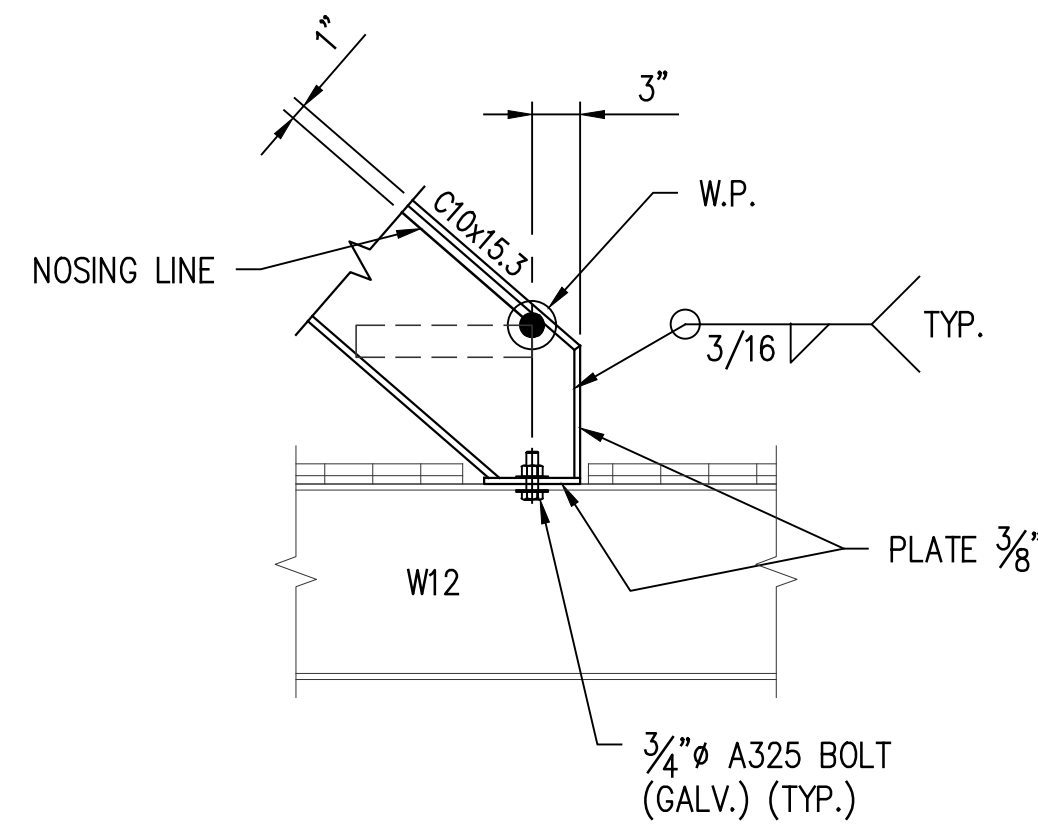
**SECTION A**

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



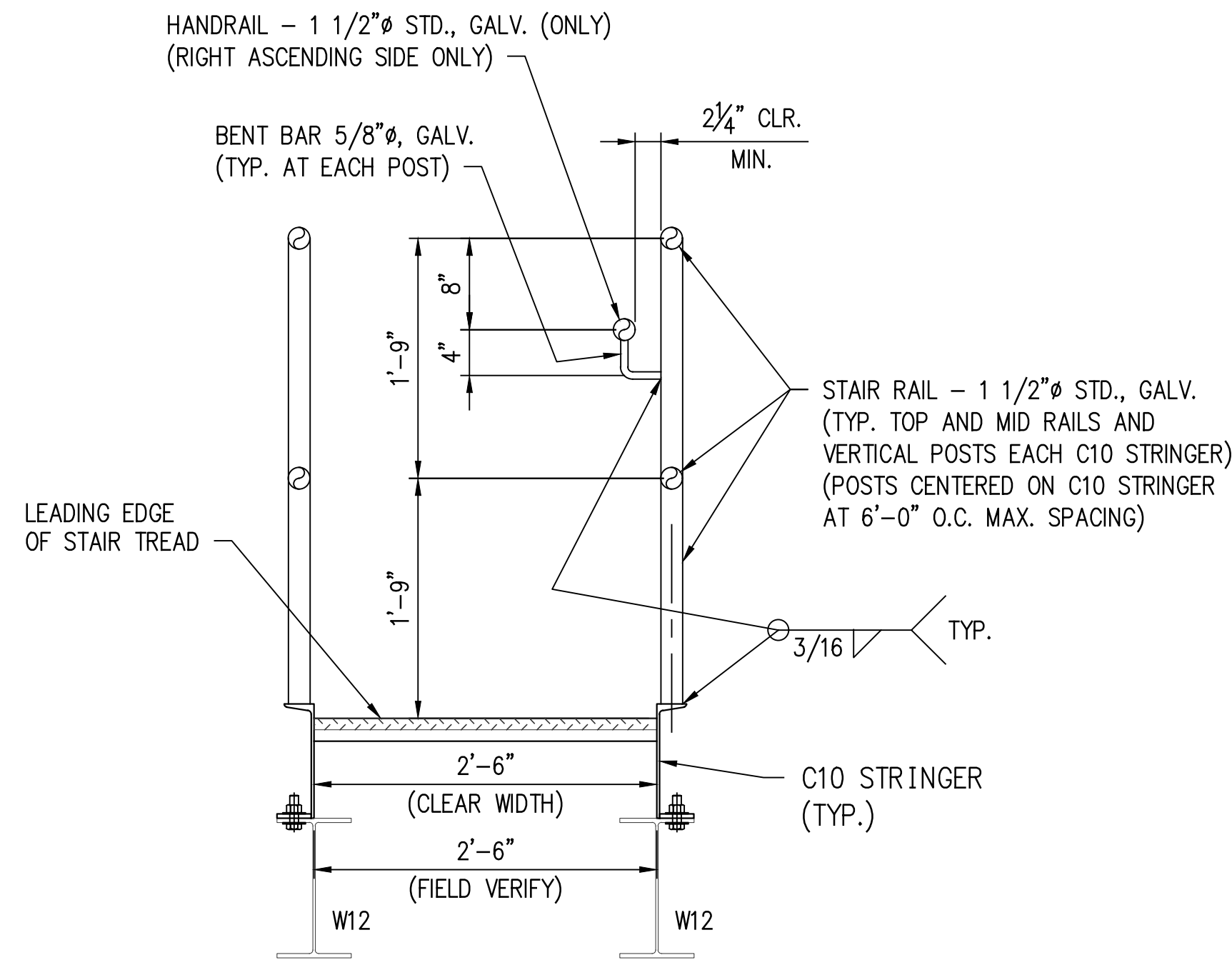
**DETAIL 1**

SCALE: 1" = 1'-0"



**DETAIL 2**

SCALE: 1" = 1'-0"



**SECTION B**

SCALE: 1" = 1'-0"

**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

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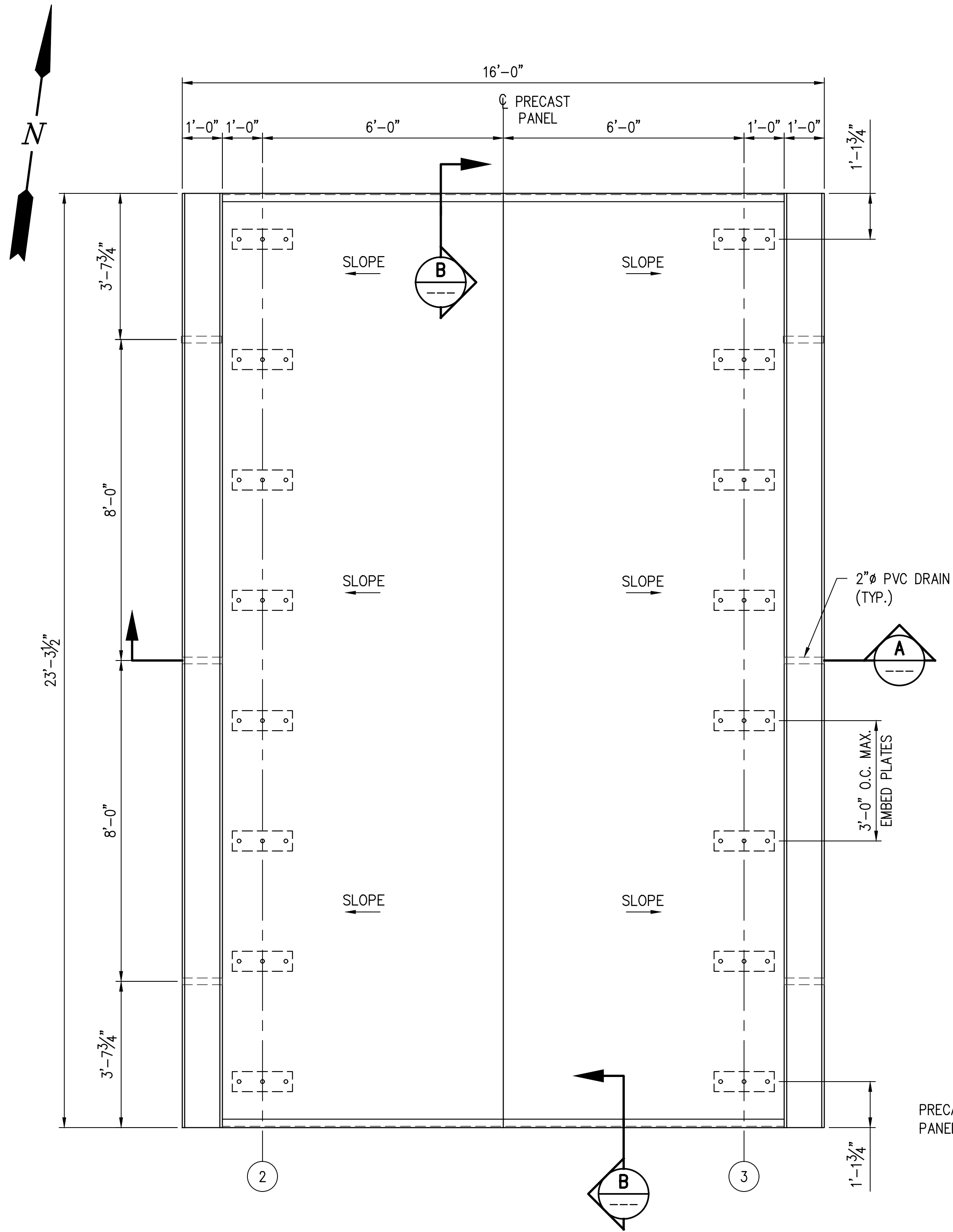
REV	DATE	BY	DESCRIPTION
A	03/27/24	AKG	ISSUED FOR BIDS

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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO	11832-1

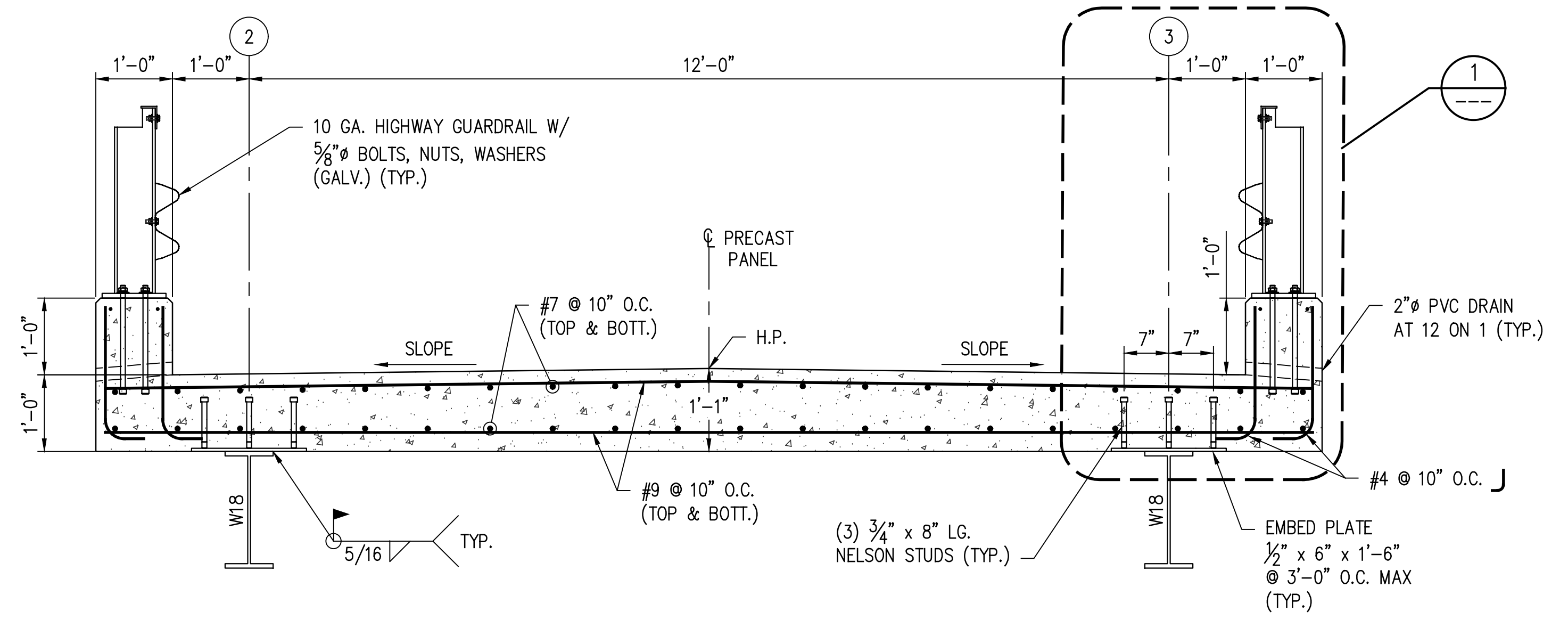
PORT OF SOUTH LOUISIANA  
 RESERVE LOUISIANA  
 UNDER DOCK REFURBISHMENT  
 ACCESS PLATFORM WALKWAY  
 PLANS, SECTIONS & DETAILS

SHEET NO.	S6
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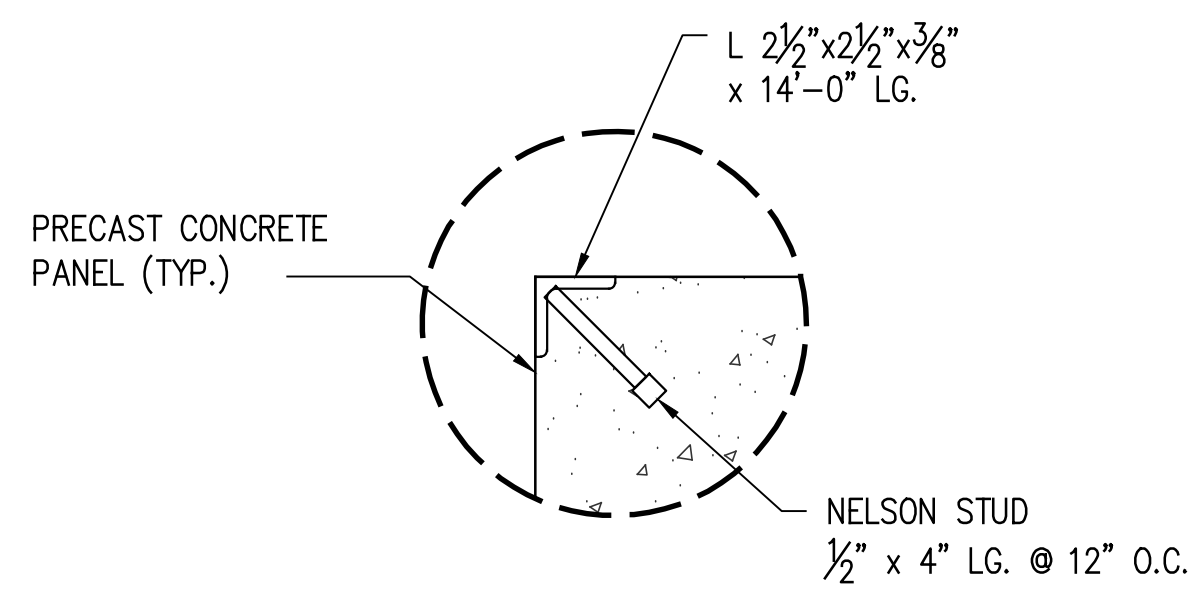
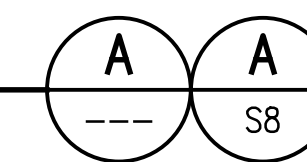
**CONCRETE PANEL - TYPE 1**

SCALE: 1/2" = 1'-0"  
(1 REQUIRED)  
(REF. SHT. S2)



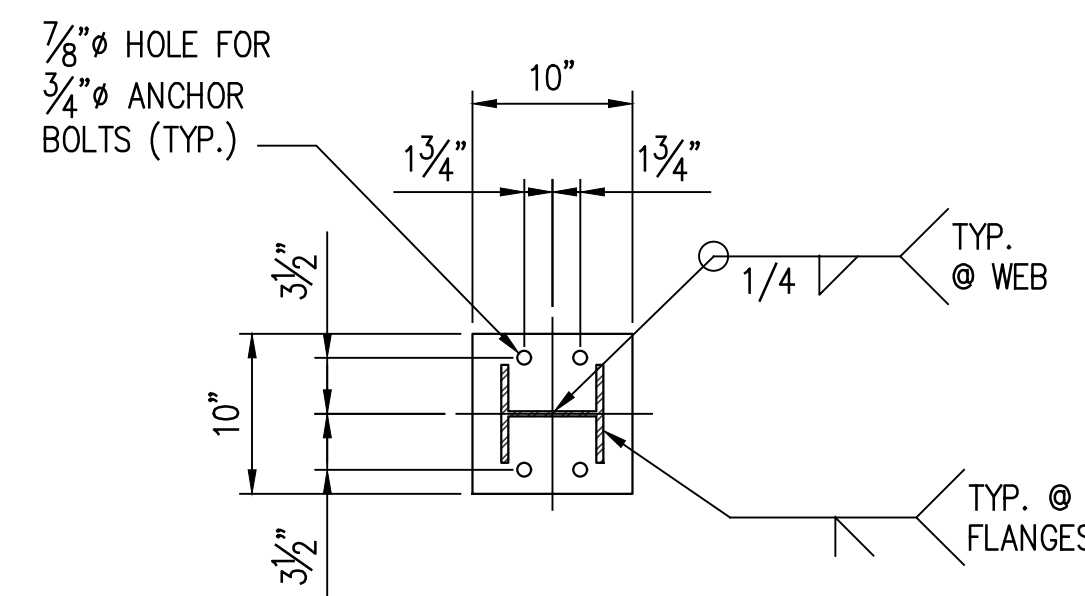
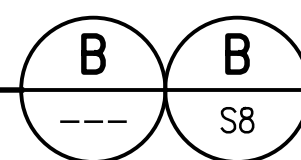
**SECTION**

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



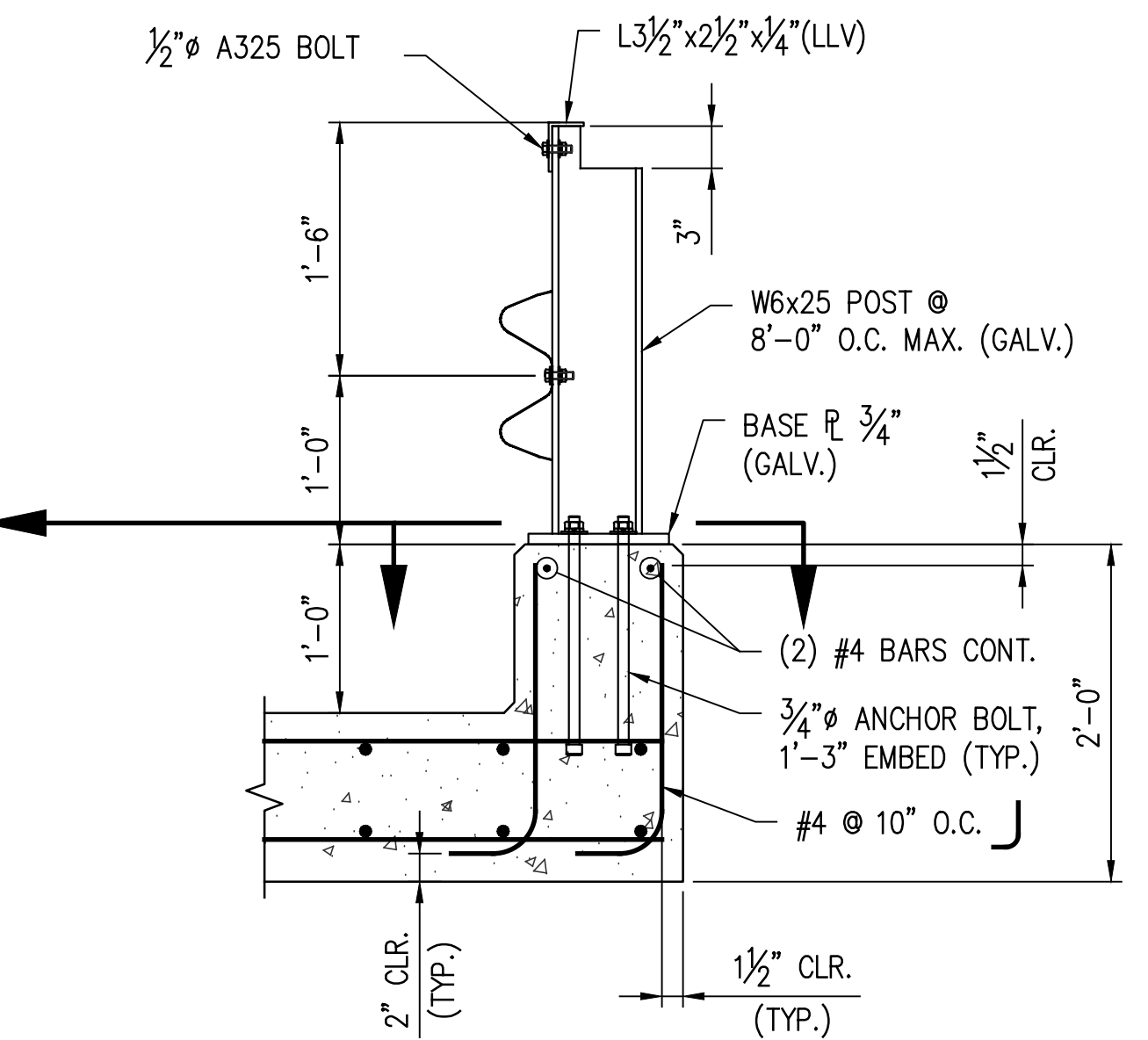
**SECTION**

SCALE: 2" = 1'-0"



**DETAIL**

SCALE: 1" = 1'-0"



**DETAIL**

SCALE: 1" = 1'-0"

**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	16

**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES CONSULTING ENGINEERS, INC.**  
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VF-185 LSF-10194817  
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REV	DATE	BY	DESCRIPTION
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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO	11832-1

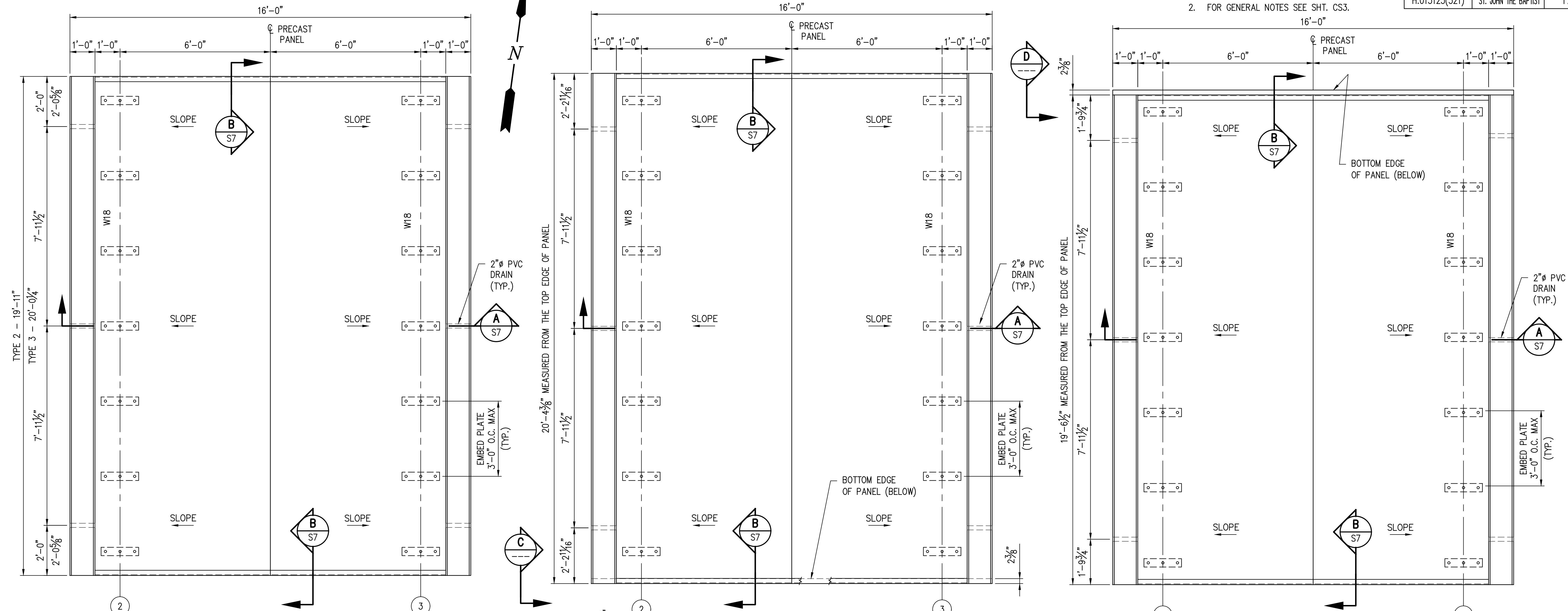
PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA  
UNDER DOCK REFURBISHMENT  
PRECAST ROADWAY PANEL  
TYPE 1 - DETAILS

SHEET NO.
<b>S7</b>

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	17

**NOTES:**

- FOR DRAWING INDEX SEE SHT. CS2.
- FOR GENERAL NOTES SEE SHT. CS3.



**CONCRETE PANELS – TYPES 2 & 3**

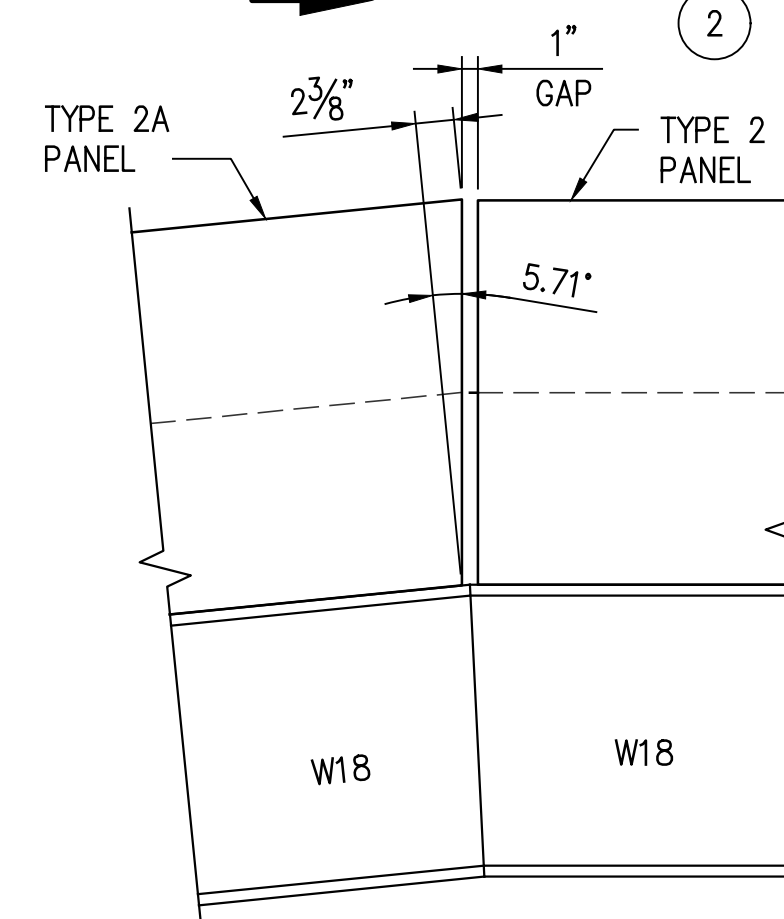
SCALE: 1/2" = 1'-0"  
(TYPE 2 – 4 REQUIRED)  
(TYPE 3 – 4 REQUIRED)  
(REF. SHT. S2)

**CONCRETE PANEL – TYPE 2A**

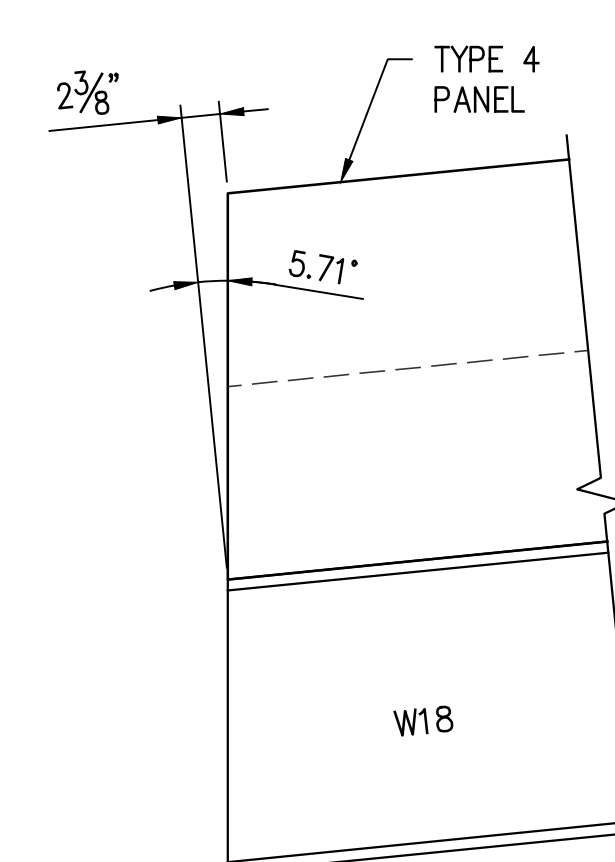
SCALE: 1/2" = 1'-0"  
(1 REQUIRED)  
(REF. SHT. S2)

**CONCRETE PANEL – TYPE 4**

SCALE: 1/2" = 1'-0"  
(1 REQUIRED)  
(REF. SHT. S2)



**SECTION C**  
SCALE: 1" = 1'-0"



**SECTION D**  
SCALE: 1" = 1'-0"

**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES CONSULTING ENGINEERS, INC.**  
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VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION
A	03/27/24	AKG	ISSUED FOR BIDS

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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO.	11832-1

PORT OF SOUTH LOUISIANA  
RESERVE LOUISIANA  
**UNDER DOCK REFURBISHMENT PRECAST ROADWAY PANELS TYPES 2, 2A, 3 & 4 - DETAILS**

SHEET NO.	<b>S8</b>
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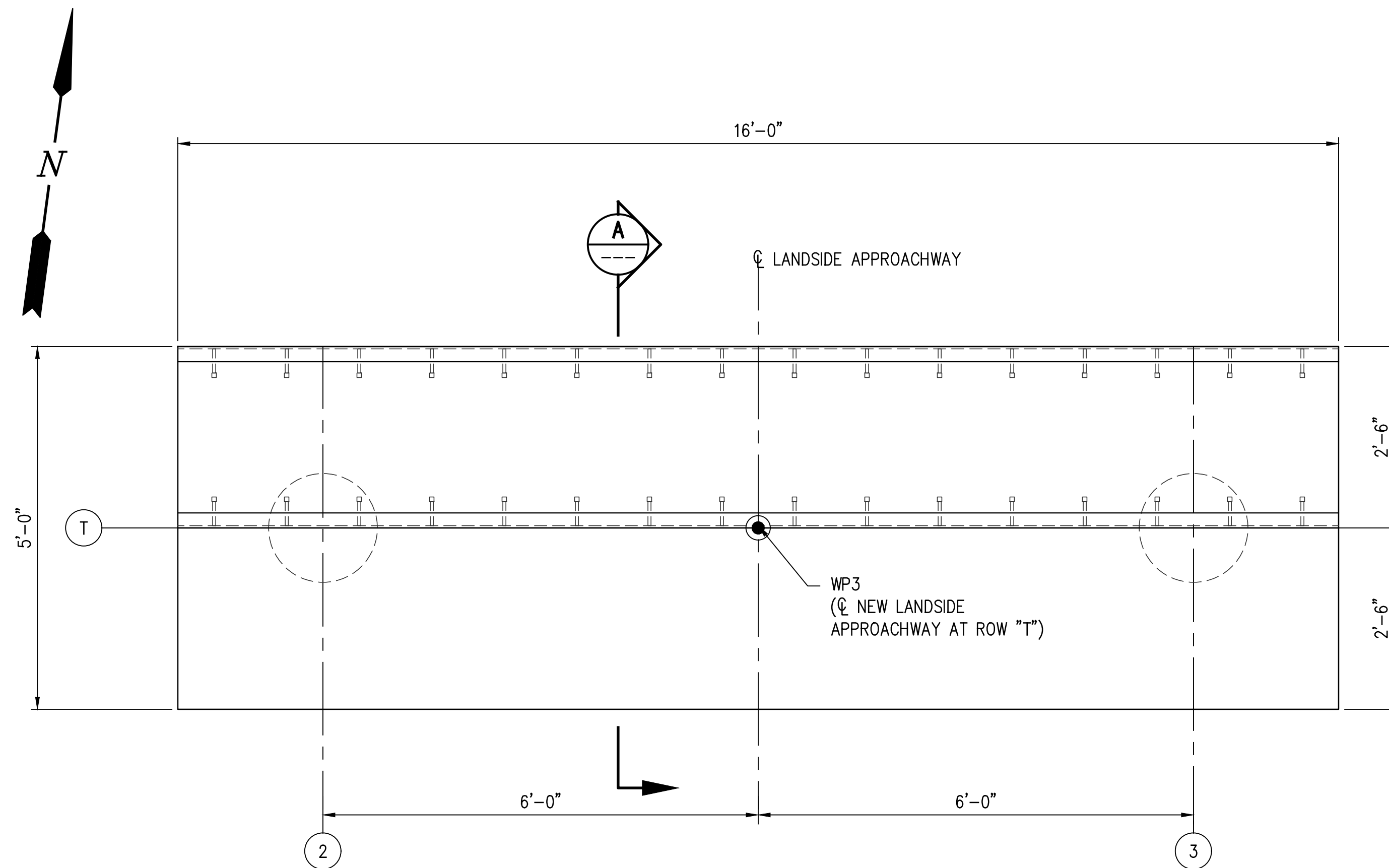
3/26/2024 2:20 PM

J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\STRUC\11832-SS.DWG

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	18

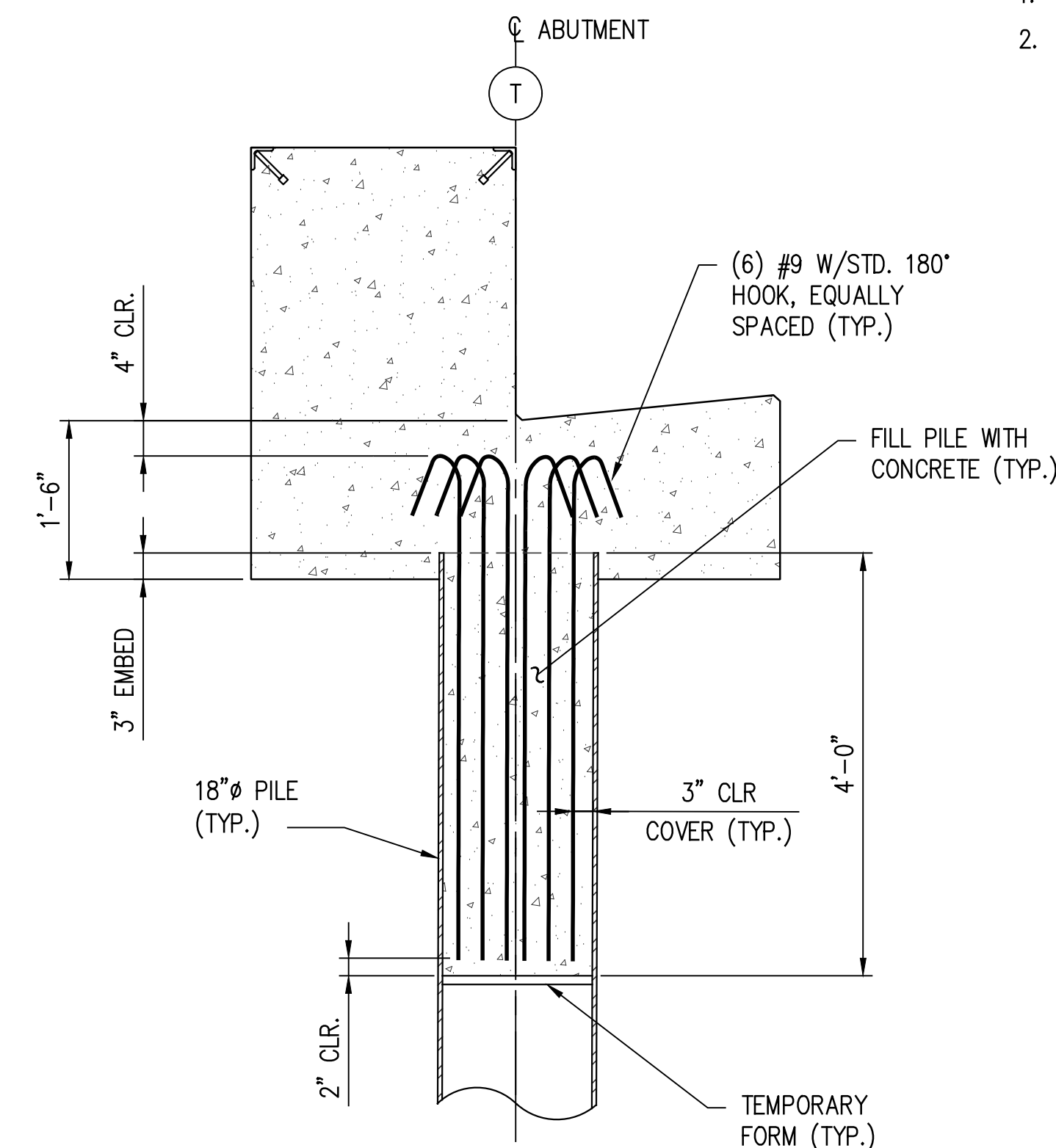
**NOTES:**

- FOR DRAWING INDEX SEE SHT. CS2.
- FOR GENERAL NOTES SEE SHT. CS3.



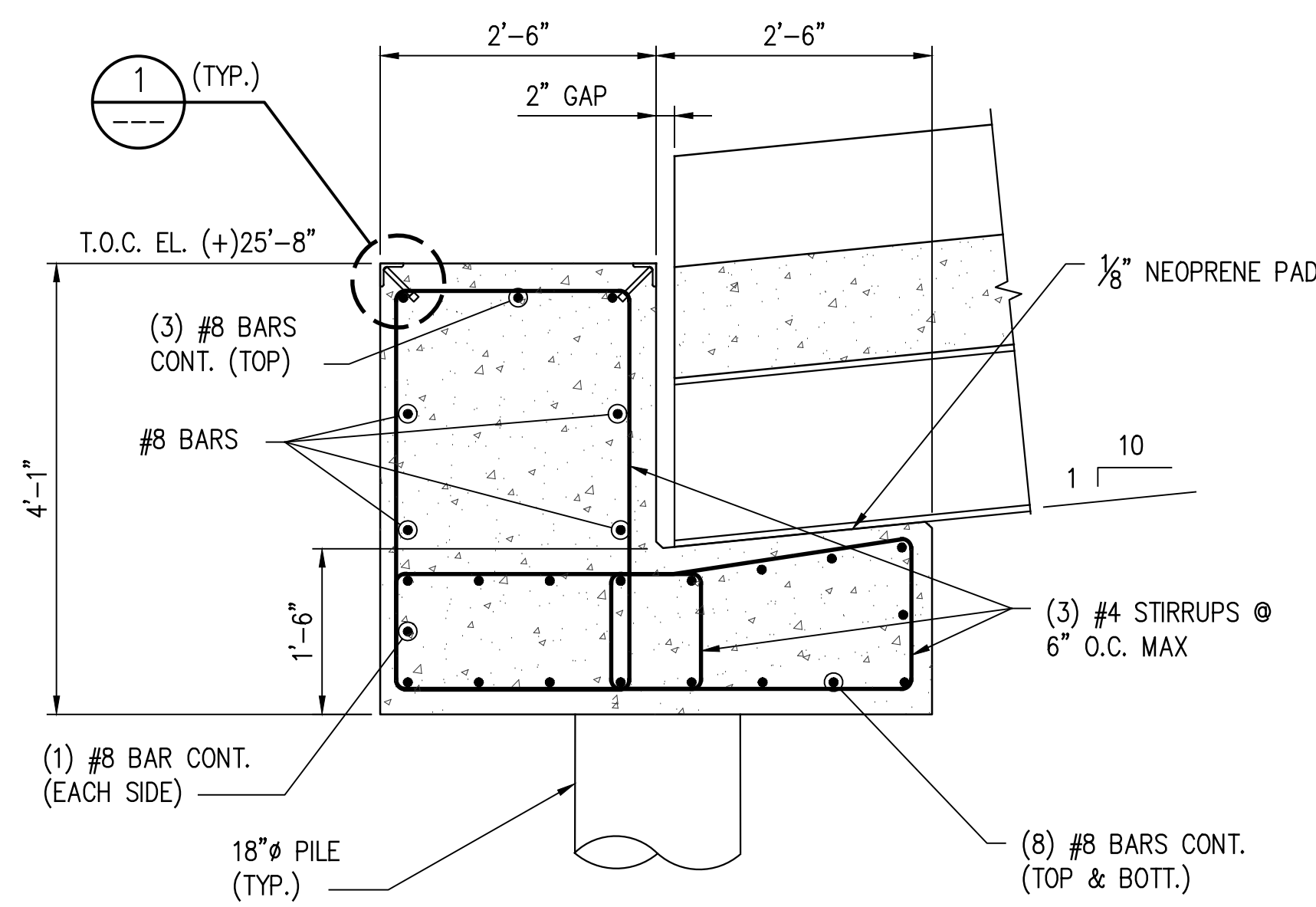
**APPROACHWAY ABUTMENT - PLAN**

SCALE: 3/4" = 1'-0"  
(REF. SHTS. S2 & S3)



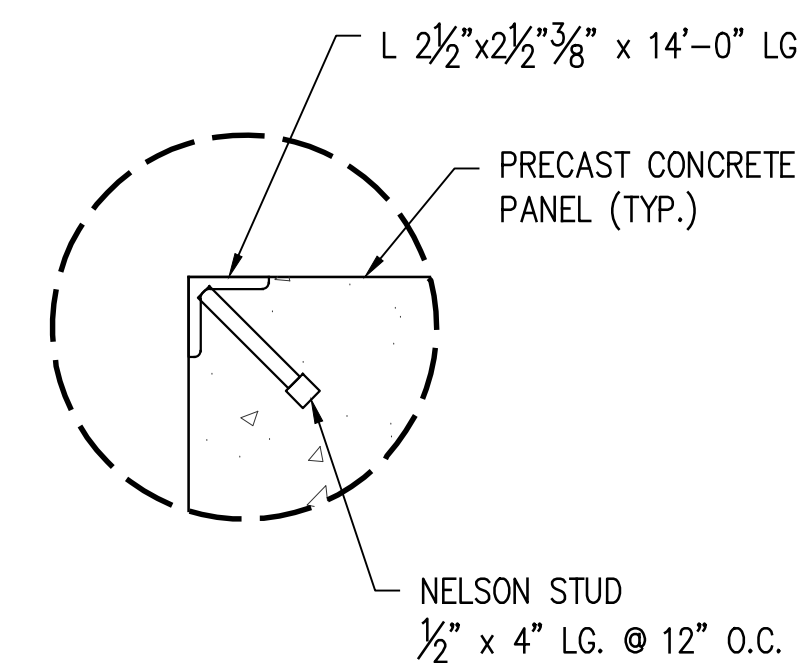
**ABUTMENT PILE EMBEDMENT DETAIL**

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



**SECTION**

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



**DETAIL**

SCALE: 2" = 1'-0"

**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES CONSULTING ENGINEERS, INC.**  
 LA: EF-1120 TX: F-2981  
 VF-185 LSF-10194817  
 NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION
A	03/27/24	AKG	ISSUED FOR BIDS

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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO.	11832-1

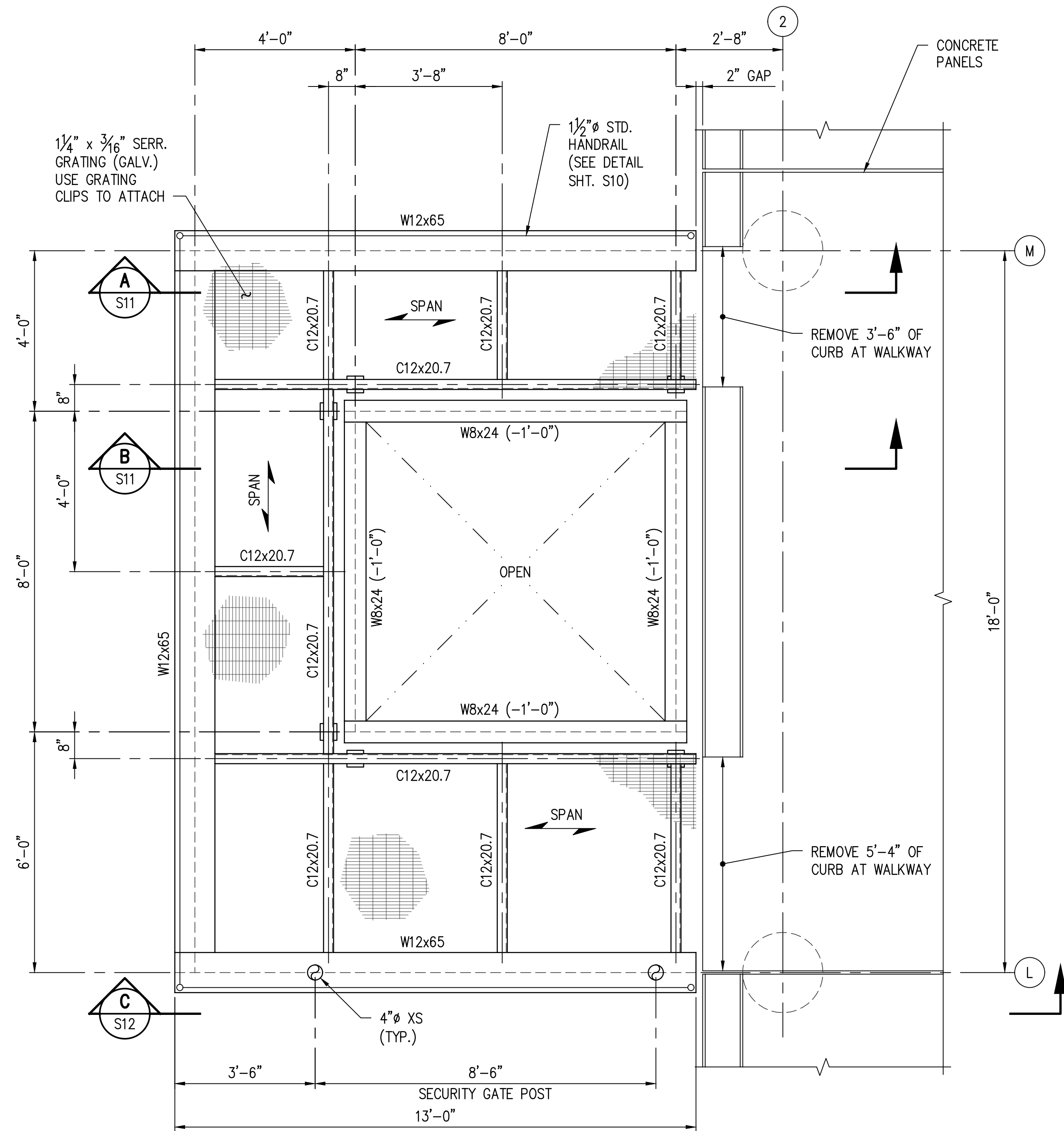
RESERVE	PORT OF SOUTH LOUISIANA	LOUISIANA
UNDER DOCK REFURBISHMENT		
APPROACHWAY ABUTMENT		
PLAN, SECTION & DETAILS		

SHEET NO.	S9
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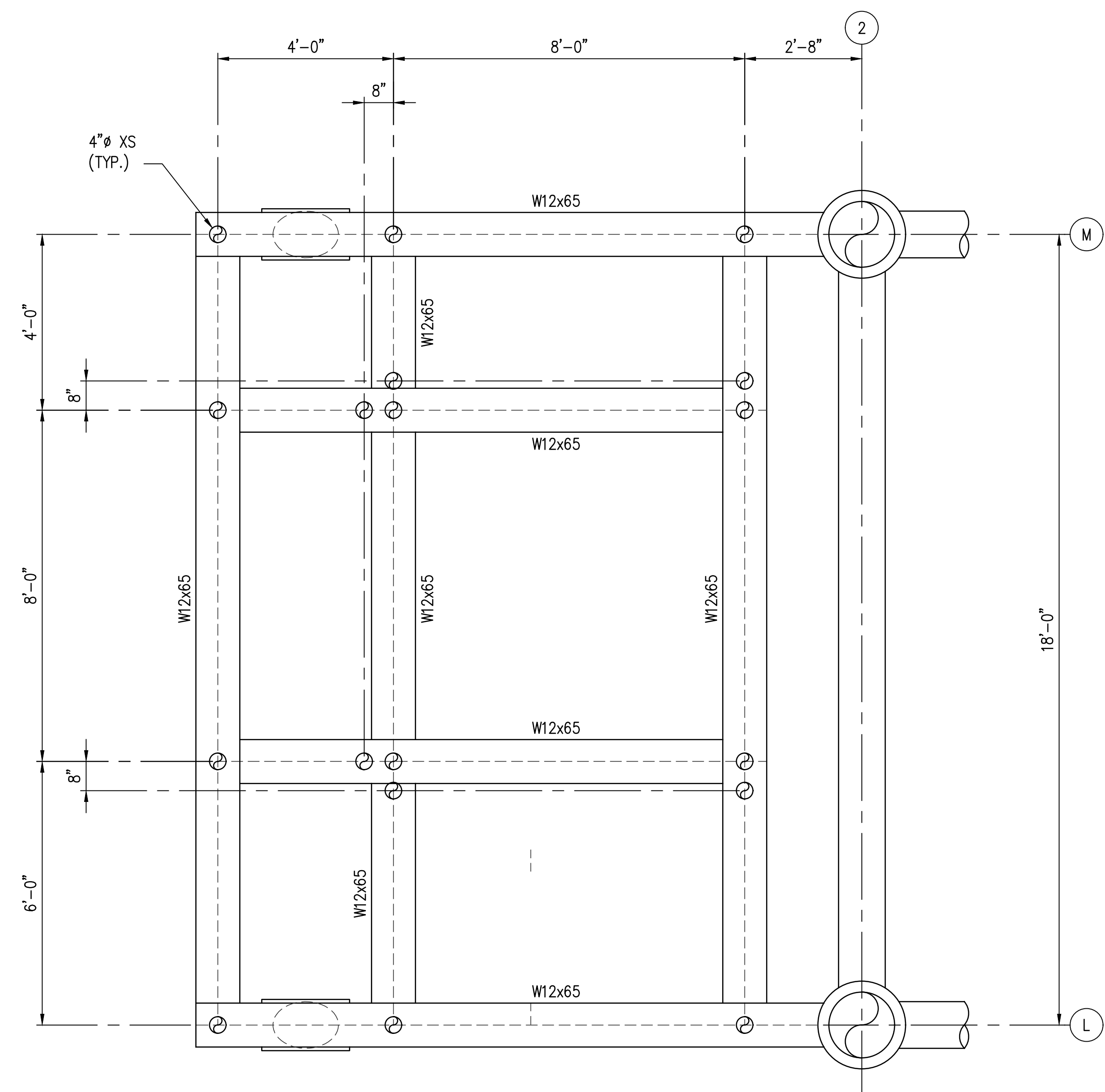
**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	19



**PLAN @ T.O.S. EL. (+)37'-6 3/4"**  
 SCALE: 1/2" = 1'-0"  
 (REF. SHTS. SP2 & S2)



**PLAN @ T.O.S. EL. (+)33'-4"**  
 SCALE: 1/2" = 1'-0"

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 MARCH 27, 2024

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REV	DATE	BY	DESCRIPTION
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DATE FEB' 23  
 SHT SIZE 22"x34"  
 DESIGN AKG  
 DRAWN CAP  
 CHECK CLO  
 APPR'D AKG  
 JOB NO. 11832-1

PORT OF SOUTH LOUISIANA  
 RESERVE LOUISIANA

UNDER DOCK REFURBISHMENT  
 GUARD SHACK PLATFORM  
 PLANS

SHEET NO.  
**S10**



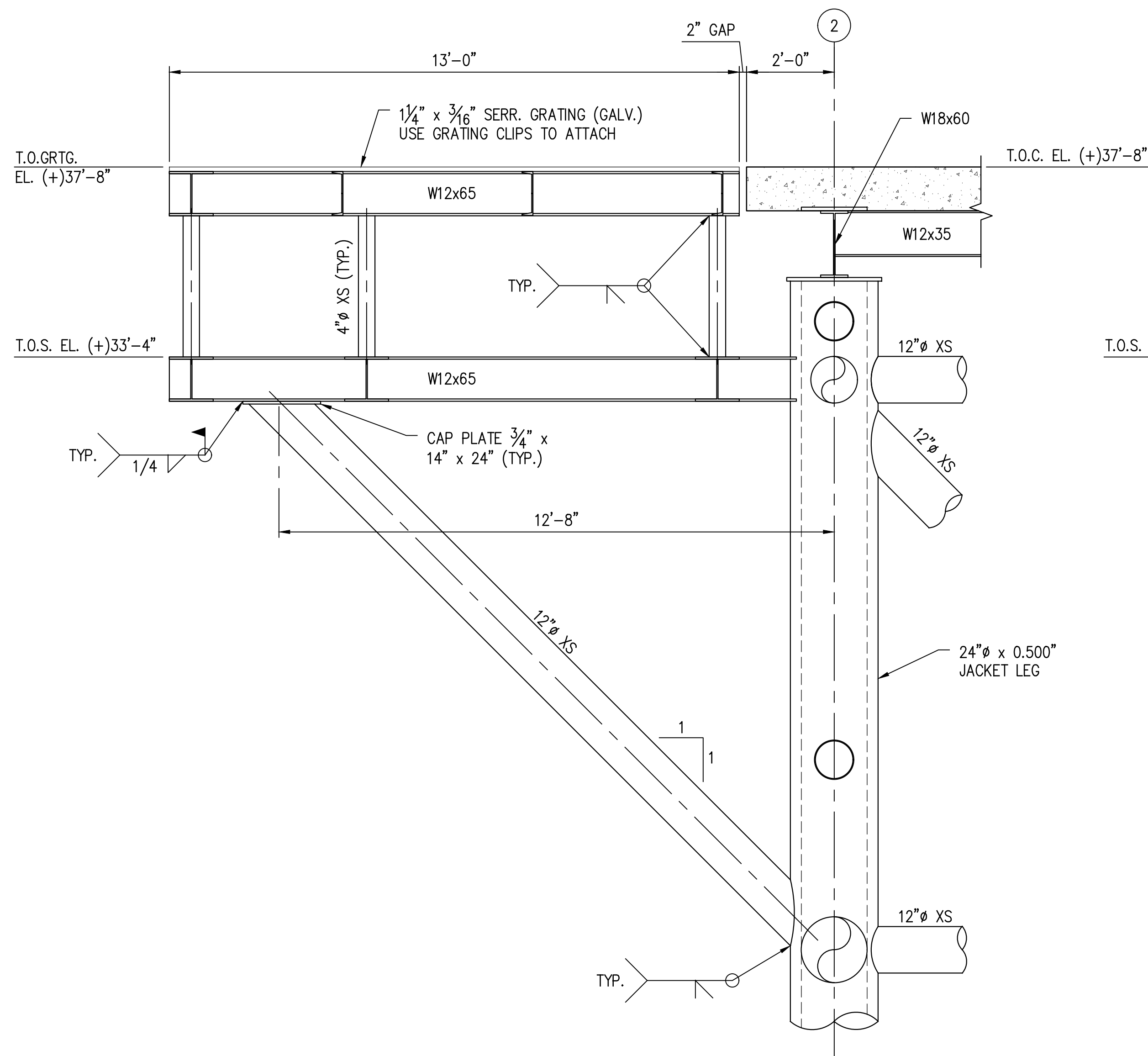
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J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\STRUC\11832-S11.DWG

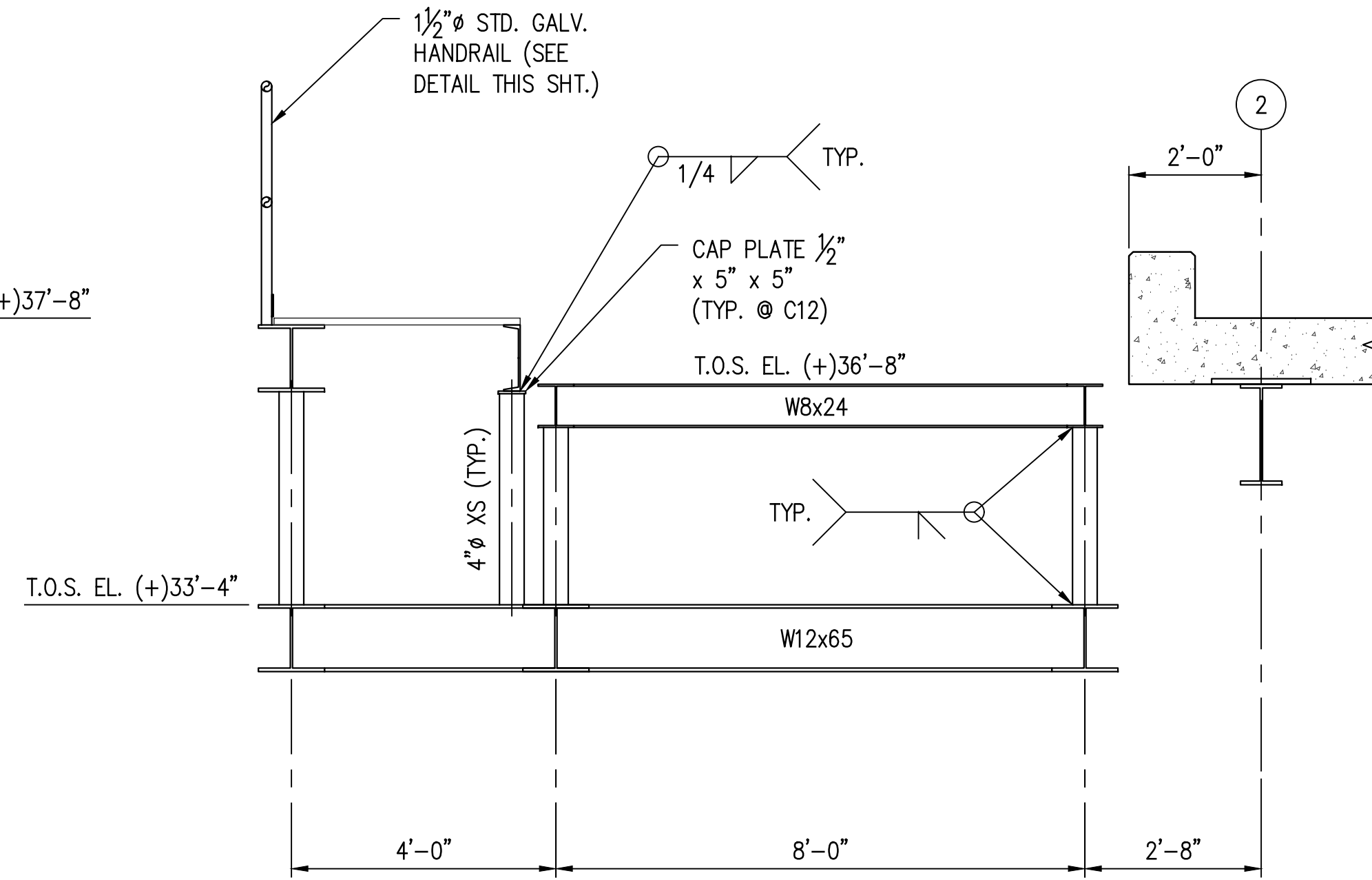
**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.

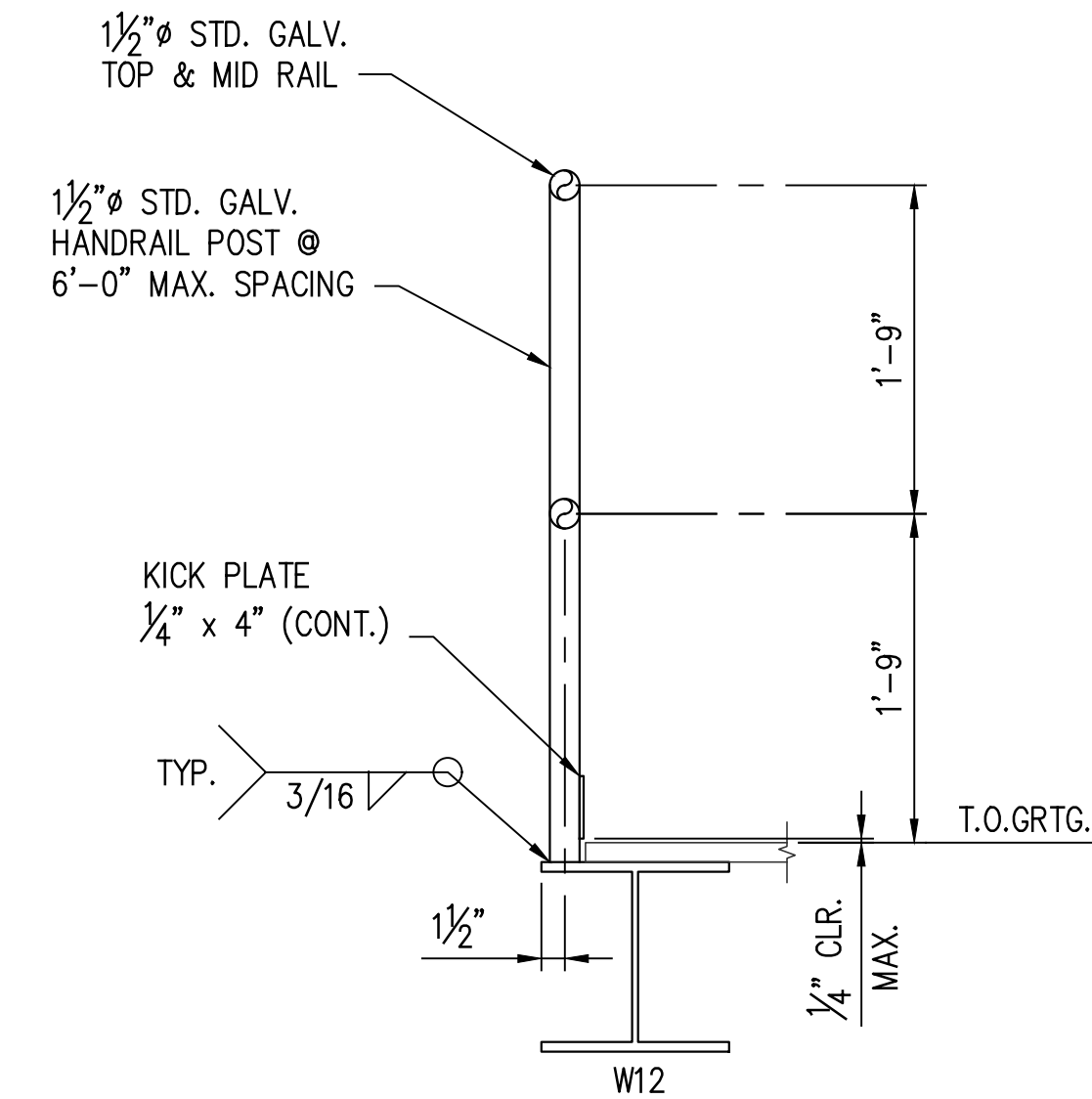
STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	20



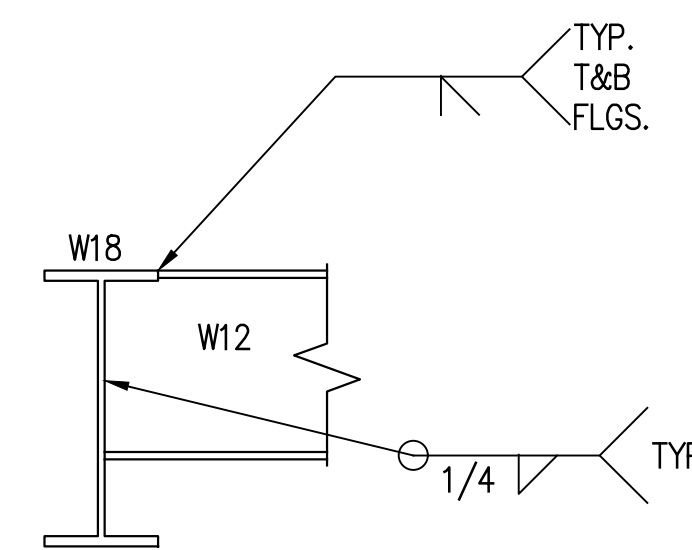
**SECTION A**  
SCALE: 1/2" = 1'-0"  
S10



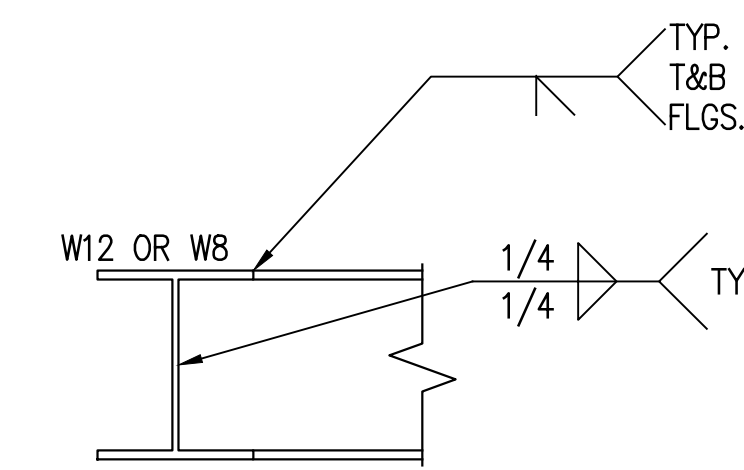
**SECTION B**  
SCALE: 1/2" = 1'-0"  
S10



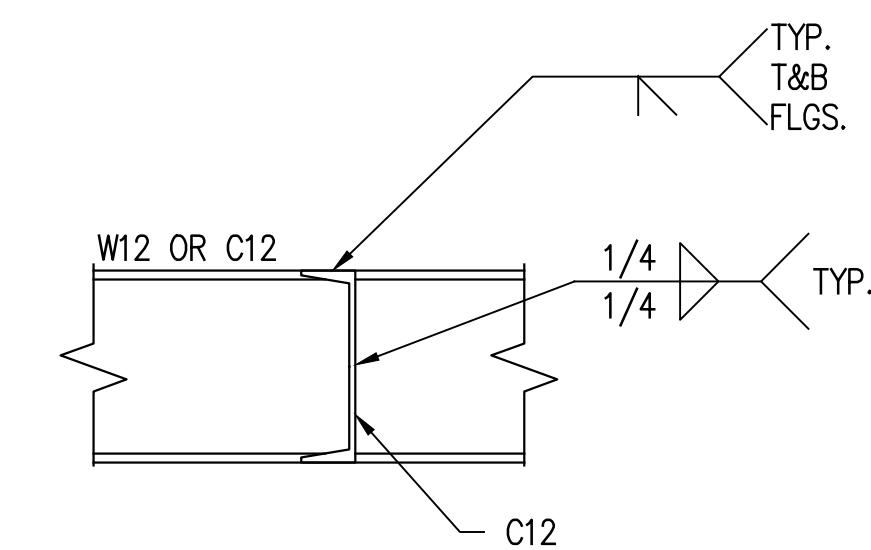
**TYPICAL HANDRAIL DETAIL**  
SCALE: 1" = 1'-0"  
(REF. SHTS. S10 & S11)



**TYPICAL DIFFERENT SIZE BEAMS CONNECTION DETAIL**  
SCALE: N.T.S.



**TYPICAL SAME SIZE BEAMS CONNECTION DETAIL**  
SCALE: N.T.S.



**TYPICAL BEAM TO CHANNEL CONNECTION DETAIL**  
SCALE: N.T.S.

**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES CONSULTING ENGINEERS, INC.**  
LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION
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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO	11832-1

RESERVE	PORT OF SOUTH LOUISIANA	LOUISIANA
UNDER DOCK REFURBISHMENT		
GUARD SHACK PLATFORM		
SECTIONS & DETAILS		

SHEET NO.
<b>S11</b>

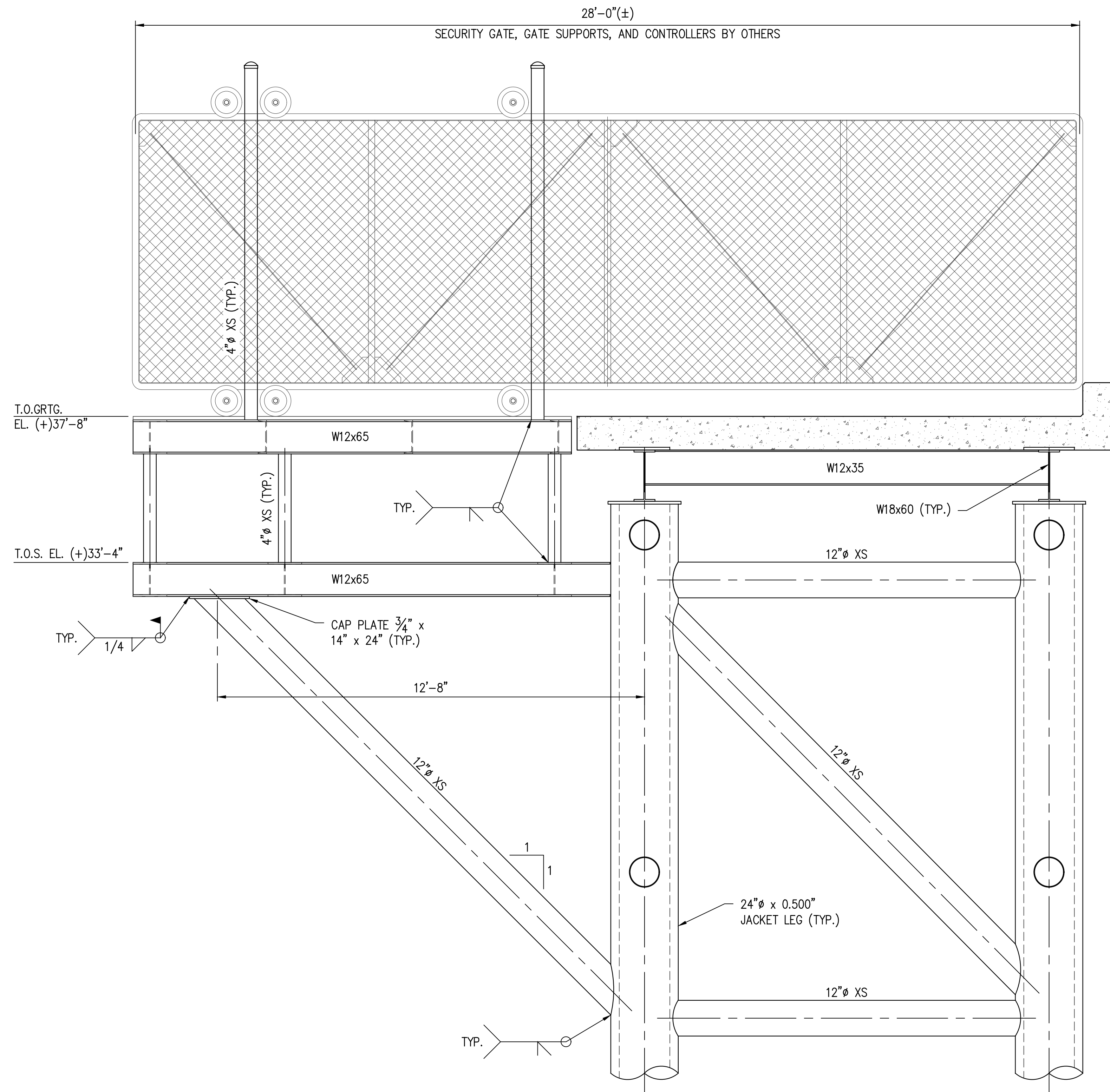
3/26/2024 2:20 PM

J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\STRUC\11832-S12.DWG

**NOTES:**

1. FOR DRAWING INDEX SEE SHT. CS2.
2. FOR GENERAL NOTES SEE SHT. CS3.

STATE PROJECT	PARISH	SHEET NO.
H.013125(321)	ST. JOHN THE BAPTIST	20



**SECTION C**  
SCALE: 1/2" = 1'-0"

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MARCH 27, 2024

**LANIER & ASSOCIATES CONSULTING ENGINEERS, INC.**  
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REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
				A	03/27/24	AKG	ISSUED FOR BIDS

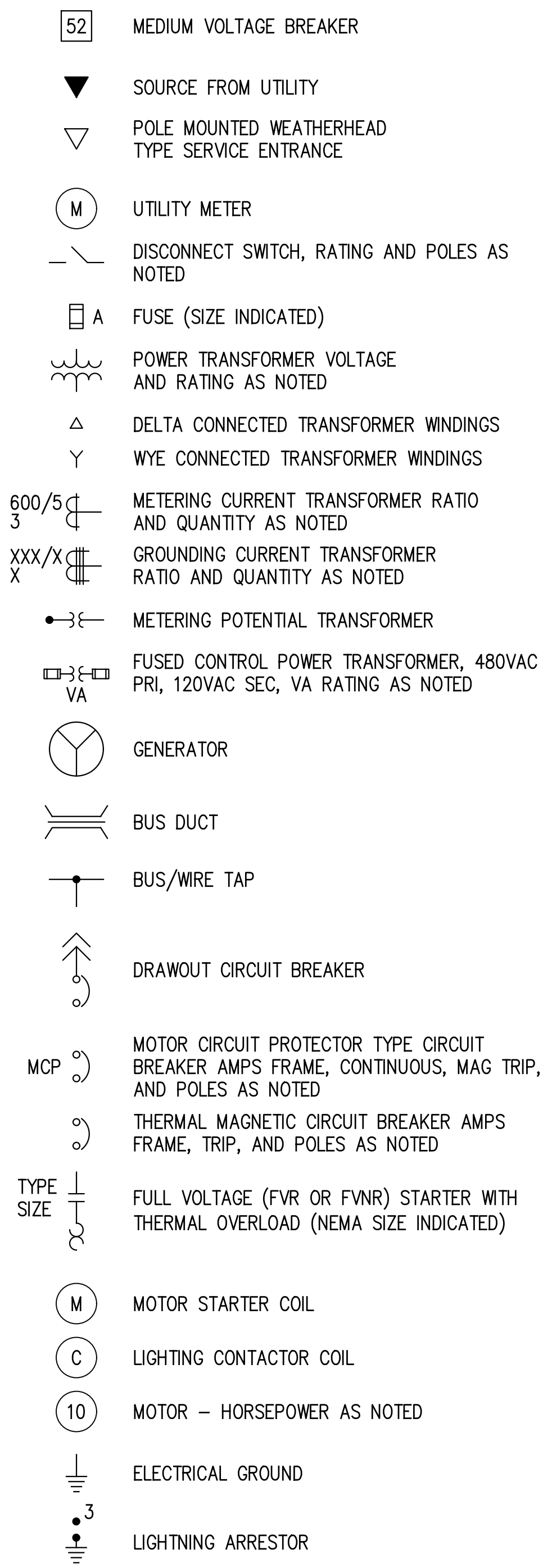
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DATE	FEB' 23
SHT SIZE	22"x34"
DESIGN	AKG
DRAWN	MEW
CHECK	CLO
APPR'D	AKG
JOB NO	11832-1

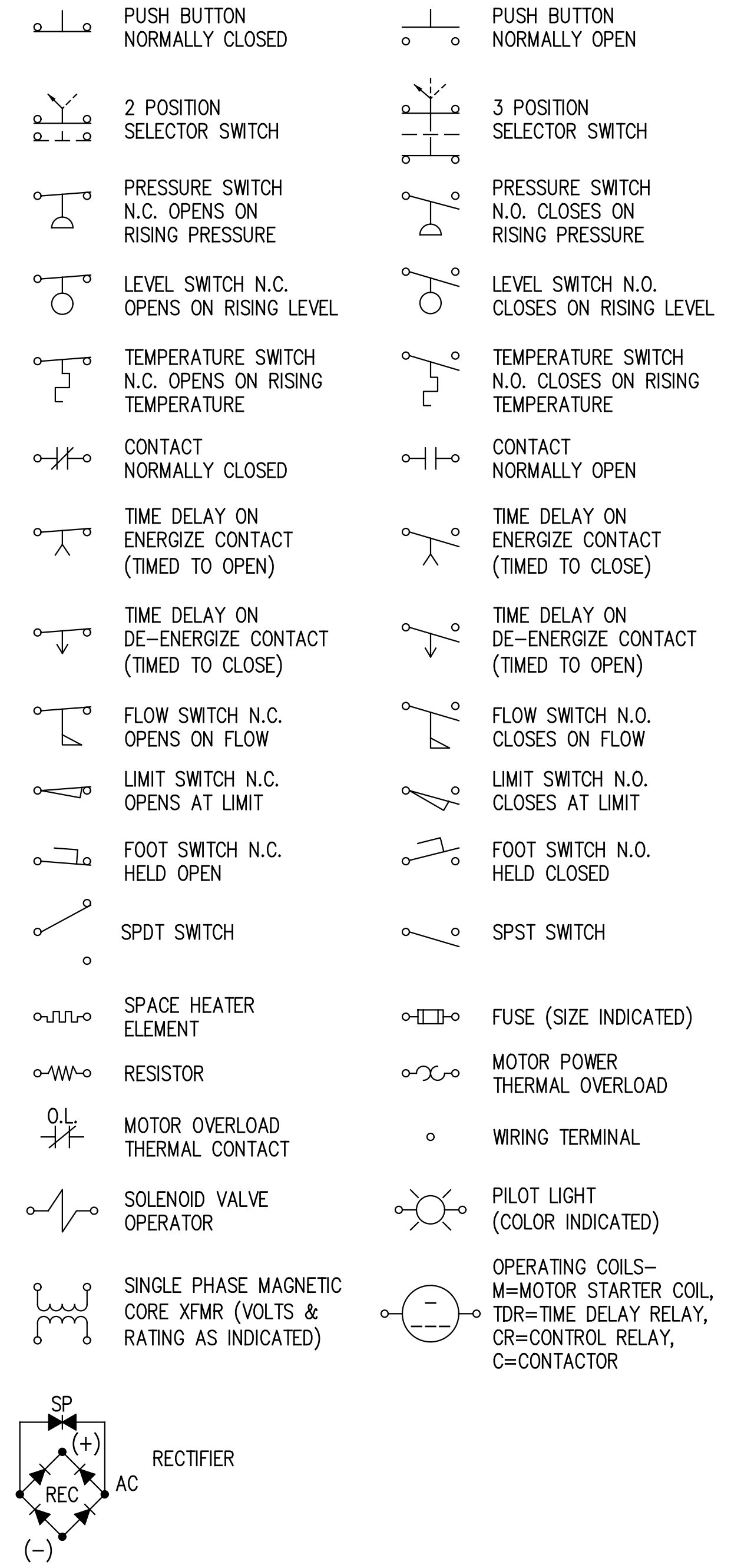
RESERVE PORT OF SOUTH LOUISIANA LOUISIANA  
**UNDER DOCK REFURBISHMENT GUARD SHACK PLATFORM SECTION**

SHEET NO.
<b>S12</b>

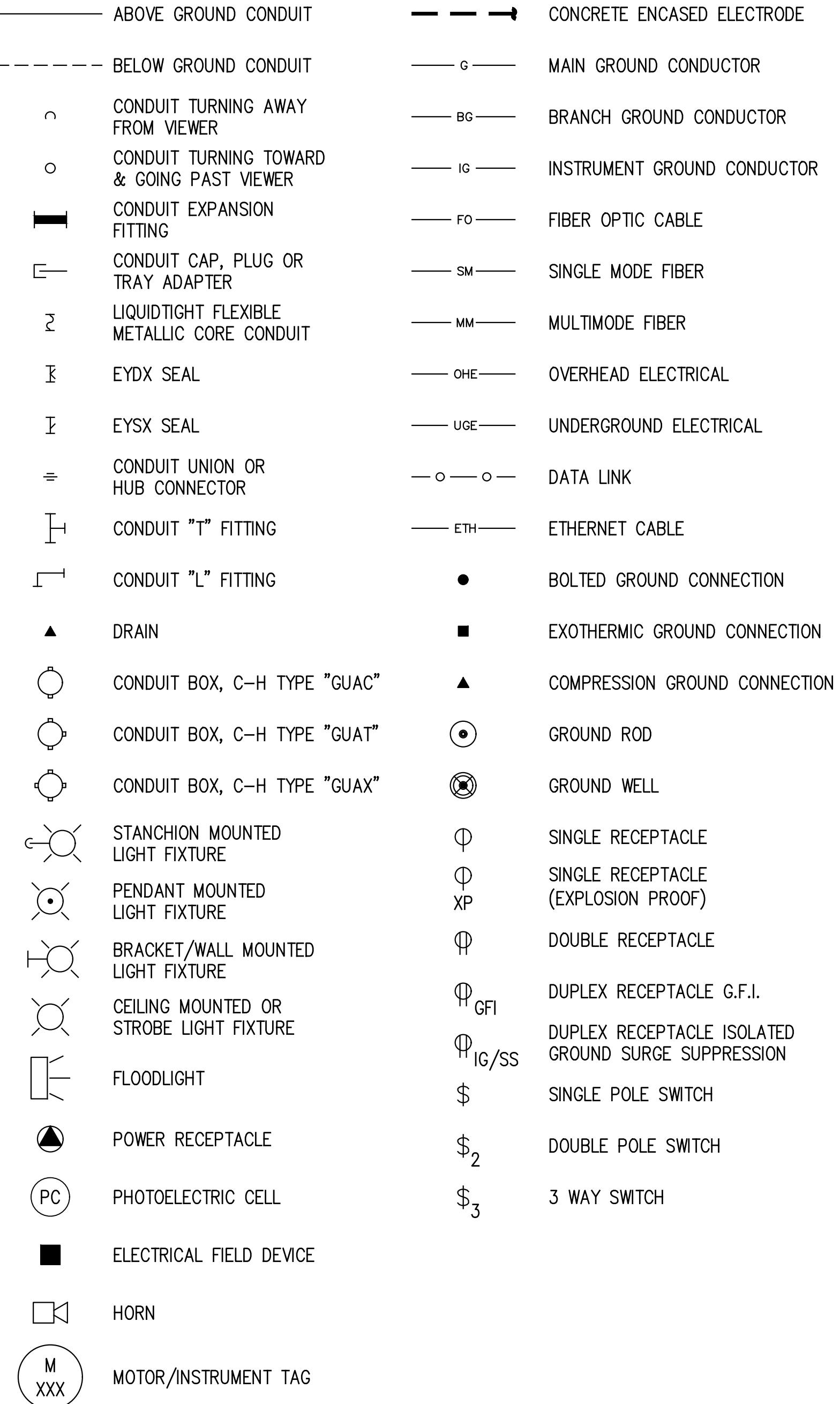
ONE-LINE DIAGRAM LEGEND



SCHEMATIC DIAGRAM LEGEND



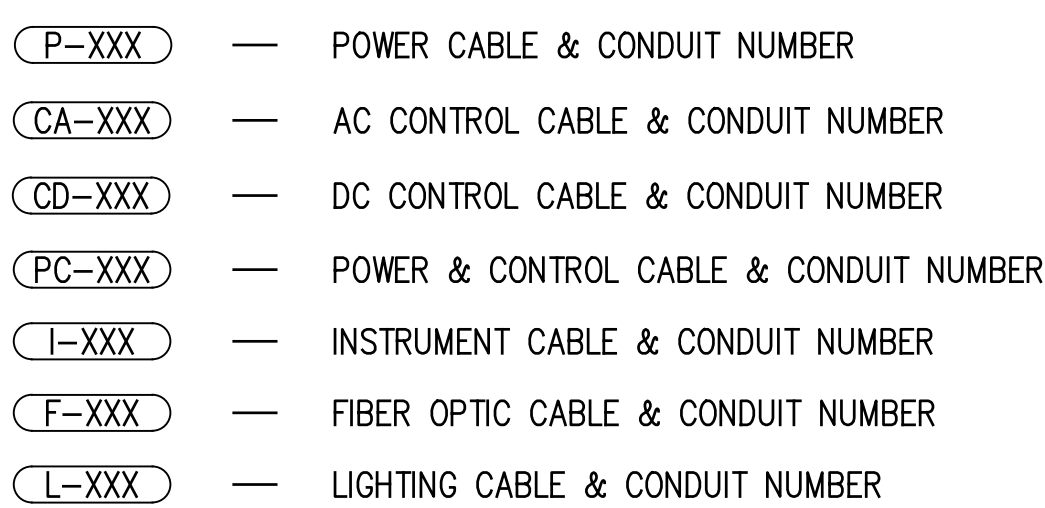
GENERAL & PLAN LEGEND



GENERAL NOTES

- CONCURRENT WITH OVERALL PLANT OPERATIONS AND PRIOR TO STARTING WORK, THE CONTRACTOR SHALL COORDINATE INSTALLATION SCHEDULE WITH ADM REPRESENTATIVE.
- ALL WORK IS TO BE PERFORMED PER LANIER AND ASSOCIATES ELECTRICAL DRAWINGS IN STRICT ACCORDANCE WITH THE MOST CURRENT EDITION OF NFPA 70, THE NATIONAL ELECTRICAL CODE (N.E.C.).
- ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS SHALL BE UL LISTED AND LABELED ACCORDINGLY.
- THE ROUTING OF ALL CONDUITS AND THE LOCATION OF ELECTRICAL EQUIPMENT AS SHOWN ON THE ELECTRICAL DRAWINGS, UNLESS SPECIFICALLY DIMENSIONED, ARE DIAGRAMMATIC ONLY. EXACT ROUTING AND LOCATIONS SHALL BE GOVERNED BY SOIL CONDITIONS, SITE SPECIFIC ARRANGEMENTS, AND FUNCTIONAL REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL REVIEW CIVIL/STRUCTURAL AND MECHANICAL DRAWINGS TO ENSURE THE POSITIONING OF ELECTRICAL EQUIPMENT AND THE ROUTING OF CONDUITS WILL NOT CONFLICT WITH NEW OR FUTURE STRUCTURES, PIPING OR EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS AND SHALL COORDINATE WORK WITH ALL AFFECTED TRADES AND ADM REPRESENTATIVE.
- THE ELECTRICAL CONTRACTOR SHALL LOCATE ALL PLANNED OR EXISTING UNDERGROUND PIPING, UTILITIES, AND OTHER OBSTRUCTIONS IN THE VICINITY OF THE WORK AREA PRIOR TO ANY DUCT BANK INSTALLATION.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT TO INCLUDE BOXES, CONDUIT, FITTINGS, SUPPORTS, AND ASSOCIATED HARDWARE. SUBSTITUTIONS FOR ITEMS IDENTIFIED BY MANUFACTURER'S PART NO., MODEL, OR TYPE SHALL NOT BE MADE WITHOUT PRIOR ENGINEERING APPROVAL. OUTDOOR ENCLOSURES SHALL BE NEMA 3R OR 4X AS SPECIFIED ON DRAWINGS. INDOOR ENCLOSURES SHALL BE NEMA 1 OR 12.
- ABOVE GRADE CONDUIT AND FITTINGS SHALL BE RIGID GALVANIZED STEEL CONDUIT. UNDERGROUND CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC. ALL SPARE CONDUITS SHALL BE PROVIDED WITH PULL ROPES AND PLUGGED AT EACH END.
- ALL CONDUIT FITTINGS SHALL HAVE COVERED OPENINGS ORIENTED FOR MAXIMUM ACCESSIBILITY.
- THE MAXIMUM DISTANCE BETWEEN CONDUIT SUPPORTS SHALL BE PER NEC SECTIONS 342 THROUGH 362.
- AS A MINIMUM, A PULL POINT SHALL BE INSTALLED AFTER THE THIRD CONDUIT BEND, AND AFTER EVERY 300 FT OF STRAIGHT CONDUIT RUN.
- CONDUITS 1 1/2" AND SMALLER SHALL BE BENT IN THE FIELD. LARGER CONDUITS SHALL USE FACTORY MADE STANDARD RADIUS ELBOWS.
- TO RESIST RUST, GALLING, CORROSION, AND SEIZING, LITHIUM BASED LUBRICANT, CROUSE-HINDS "STL" FOR RGS CONDUIT & BURNDY "PENETROX A" FOR ALUMINUM CONDUIT, SHALL BE APPLIED GENEROUSLY ON ALL THREADED CONNECTIONS AND PARTS, INCLUDING CONDUITS, CONDUIT FITTINGS, SCREW COVER OF JUNCTION BOXES AND ENCLOSURES, LIGHTING FIXTURES, BOLTS, SCREWS, PLUGS, ETC.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FITTINGS, DRAINS, ETC. NOT SHOWN BUT REQUIRED PER GOOD INSTALLATION PRACTICES AND THE N.E.C. DRAINS SHALL BE INSTALLED AT LOW POINTS AND BREATHERS AT HIGH POINTS OF ALL CONDUIT RUNS, J-BOXES AND DEVICES.
- UNLESS OTHERWISE SHOWN, ALL CONDUIT SHALL BE SUPPORTED WITH STEEL CHANNEL (UNISTRUT P-1000), STRUCTURAL ANGLE, OR BEAM CLAMPS EVERY 10'-0". CONDUIT SHALL BE SUPPORTED WITHIN 3'-0" OF EACH OUTLET BOX OR JUNCTION BOX.
- EQUIPMENT SUPPORTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. FIELD WELDS SHALL BE DRESSED WITH ZINC COLD GALVANIZING COATING FOR CORROSION PROTECTION.
- ALL MOUNTING HARDWARE FOR OUTDOOR EQUIPMENT SHALL BE STAINLESS STEEL. ALL MOUNTING HARDWARE FOR INDOOR EQUIPMENT SHALL BE GALVANIZED STEEL, UNLESS OTHERWISE SHOWN.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL RACEWAY PROTECTED LOW VOLTAGE WIRING. WIRING SHALL BE 600 VOLT RATED, 90°C DRY/90°C WET, SINGLE CONDUCTOR, CLASS B STRANDED ANNEALED COPPER PER ASTM B-3. THERMOPLASTIC INSULATION, NYLON JACKET, TYPE THHN/THWN-2. SIZE AS SHOWN ON DRAWINGS IS BASED ON NEC 310.15 AMPACITIES AT 40°C AMBIENT TEMPERATURE UTILIZING REQUIREMENTS OF NEC 310.15, WHERE APPLICABLE.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING IDENTIFIED ON DRAWINGS. GROUNDING WIRE SHALL BE 600 VOLT RATED, 90°C DRY/90°C WET, SINGLE CONDUCTOR, CLASS B STRANDED ANNEALED COPPER PER ASTM B-3. THERMOPLASTIC INSULATION, NYLON JACKET, TYPE THHN/THWN-2, COLOR CODED GREEN. SIZES AS SHOWN ON DRAWINGS ARE BASED ON REQUIREMENTS OF NEC 250.66 OR 250.122.
- UNLESS OTHERWISE SHOWN, GROUND CONNECTIONS TO EQUIPMENT AND STRUCTURE SHALL BE MADE UTILIZING HYDRAULIC COMPRESSION GROUND CONNECTORS OR EXOTHERMIC BOND TYPE SYSTEM.
- ALL CONDUCTORS SHALL BE COATED WITH A WIRE PULLING LUBRICANT WHEN PULLING IN CONDUIT. REMOVE EXCESS LUBRICANT AFTER PULL COMPLETION.
- ALL CABLE TRAY, FITTINGS, AND ASSOCIATED HARDWARE, HANDLING AND INSTALLATION TECHNIQUES SHALL ADHERE TO THE PRACTICAL GUIDE AS SET FORTH BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) VE2-LATEST EDITION "CABLE TRAY INSTALLATION GUIDELINES." AFTER INSTALLATION, THE CABLE TRAY SYSTEM SHALL BE INSPECTED WITH ALL DEFICIENCIES RECTIFIED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- TO MINIMIZE FIELD WELDING, POTENTIAL CORROSION, AND POSSIBLE DAMAGE TO PRE-COATED OR GALVANIZED STRUCTURES, THE ELECTRICAL CONTRACTOR SHALL COORDINATE PRE-WELDING OF CONDUIT SUPPORTS TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO SURFACE TREATMENT OF THE STRUCTURE.
- TOUCH UP: FIELD WELDS, HAND-DRILLED BOLT HOLES, ETC. SHALL BE DRESSED WITH ZINC COLD GALVANIZED OR COAL TAR COATING (MATCH PRE-EXISTING) FOR CORROSION PROTECTION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EXPANSION/ FLEXIBLE FITTINGS WHERE NOT SPECIFICALLY SHOWN, BUT REQUIRED PER GOOD INSTALLATION PRACTICES AND THE N.E.C. FLEXIBLE FITTINGS SHALL BE REQUIRED WHEN TERMINATING TO VIBRATING EQUIPMENT SUCH AS PIPE AND PUMP MOUNTED INSTRUMENTATION, PUMPS, TRANSFORMERS, ETC. THEY ARE ALSO REQUIRED WHEN TRANSITIONING BETWEEN STRUCTURES THAT ARE SUBJECT TO THERMAL EXPANSION/ MOVEMENT. SUCH STRUCTURES CAN BE IDENTIFIED WHEN THEY ARE AFFIXED TO ANOTHER STRUCTURE VIA SLOTTED HOLES.
- THE PROCUREMENT AND INSTALLATION FOR PNEUMATIC AND INSTRUMENT TUBING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED ON DRAWINGS. THE CONTRACTOR SHALL REFER TO THE P&ID DRAWINGS FOR ADDITIONAL INFORMATION.
- THE VENDOR/ CONTRACTOR SHALL PURCHASE EQUIPMENT AS SPECIFIED UNLESS SHOWN WITH "OR ENGINEERED APPROVED EQUAL" OR "OR EQUAL".

CONDUIT & CABLE SCHEDULE LEGEND



ABBREVIATIONS

AC - AMPERE CONTINUOUS	MCP - MOTOR CIRCUIT PROTECTOR
AF - AMPERE FRAME	N.I.C. - NOT IN CONTRACT
AT - AMPERE TRIP	PC - PHOTOCCELL CONTROL
DPST - DOUBLE POLE SINGLE THROW	S/N - SOLID NEUTRAL
DPDT - DOUBLE POLE DOUBLE THROW	S/S - START/STOP
FBO - FURNISHED BY OTHERS	SPST - SINGLE POLE SINGLE THROW
GFI - GROUND FAULT INTERRUPTER	SPDT - SINGLE POLE DOUBLE THROW
HOA - HAND-OFF-AUTO	* = L (LOW) OR H (HIGH)
LP - LIGHTING PANEL	

**LANIER & ASSOCIATES**  
CONSULTING ENGINEERS, INC.  
LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION
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DATE	OCT. 2023
SHT SIZE	22"x34"
DESIGN	AB
DRAWN	KMR
CHECK	JAM
APPR'D	THD
JOB NO	11832-1

**PORT OF SOUTH LOUISIANA**  
RESERVE LOUISIANA  
**UNDER DOCK REFURBISHMENT ELECTRICAL GENERAL NOTES & LEGEND**

SHEET NO. **E1**

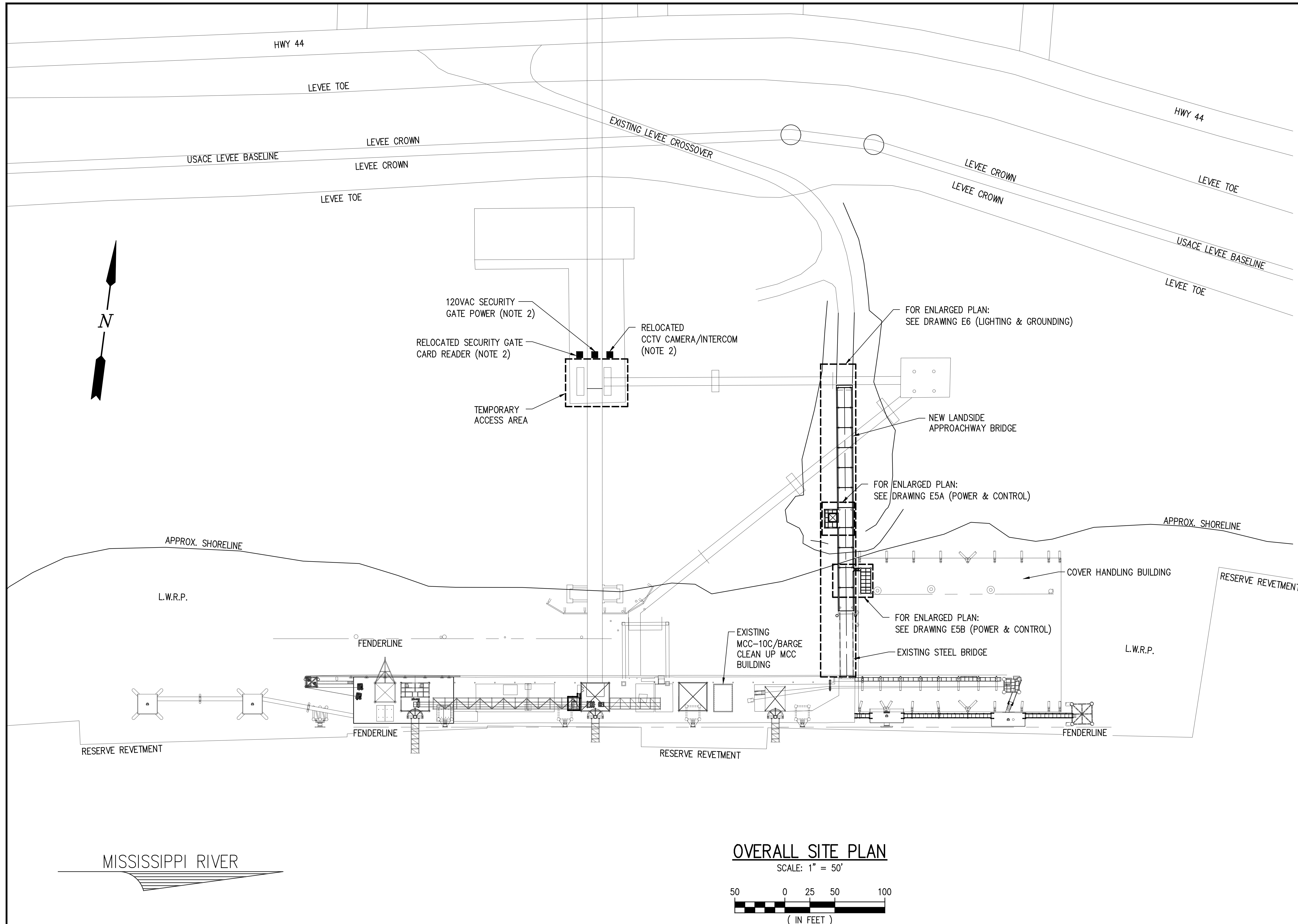
**PRELIMINARY FOR BIDS ONLY**  
MARCH 27, 2024

3/27/2024 3:11 PM

J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\ELECT\INST\11832-E2.DWG

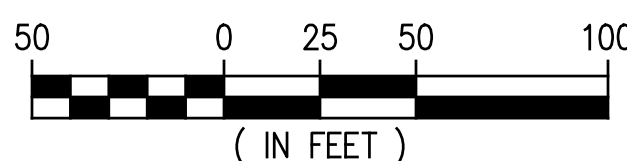
NOTES

- 1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
- 2. CONTRACTOR TO COORDINATE FINAL LOCATION WITH AN ADM REPRESENTATIVE.



OVERALL SITE PLAN

SCALE: 1" = 50'



**PRELIMINARY  
FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES**  
CONSULTING ENGINEERS, INC.  
LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
				A	03/27/24	THD	PRELIMINARY-FOR BIDS ONLY

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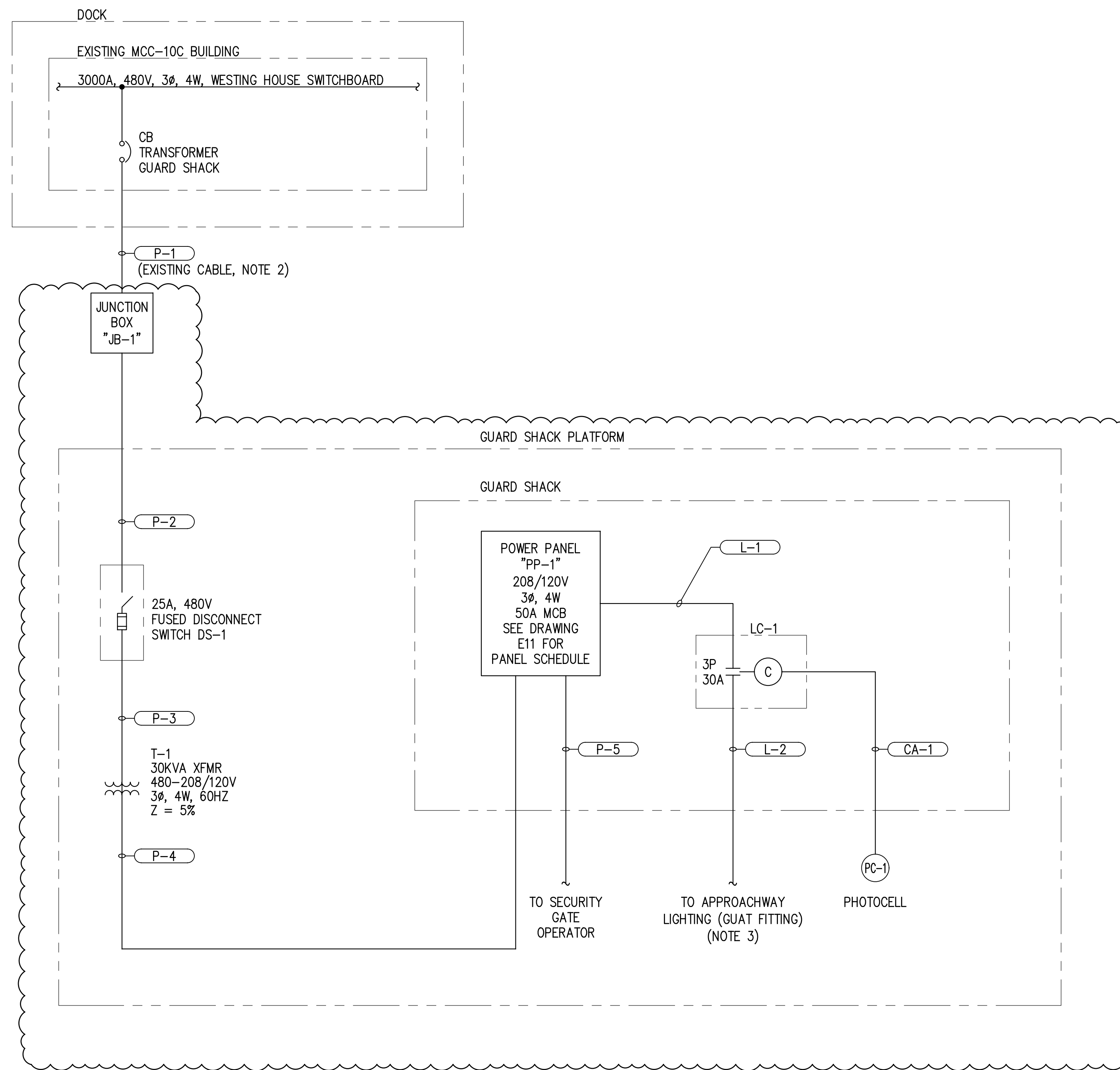
DATE OCT. 2023  
SHT SIZE 22"x34"  
DESIGN AB  
DRAWN KMR  
CHECK JAM  
APPR'D THD  
JOB NO 11832-1

**PORT OF SOUTH LOUISIANA**  
RESERVE LOUISIANA  
**UNDER DOCK REFURBISHMENT  
ELECTRICAL  
OVERALL SITE PLAN**

SHEET NO.  
**E2**

NOTES

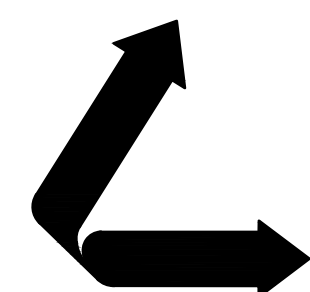
1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
2. EXISTING CABLE BEING RE-USED/RE-ROUTED AND RE-TERMINATED IN NEW JUNCTION BOX "JB1". REFER TO DEMO DRAWING ED1 FOR ADDITIONAL INFORMATION.
3. REFER TO ELECTRICAL DRAWING E6 FOR ADDITIONAL INFORMATION.



480V ONE-LINE DIAGRAM (PARTIAL)

**SCOPE OF WORK  
INCLUDES CLOUDED  
AREAS ONLY**

**PRELIMINARY  
FOR BIDS ONLY**  
MARCH 27, 2024



**LANIER & ASSOCIATES**  
CONSULTING ENGINEERS, INC.

LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817

NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
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DATE OCT. 2023  
SHT SIZE 22"x34"  
DESIGN AB  
DRAWN KMR  
CHECK JAM  
APPR'D THD  
JOB NO 11832-1

RESERVE PORT OF SOUTH LOUISIANA LOUISIANA

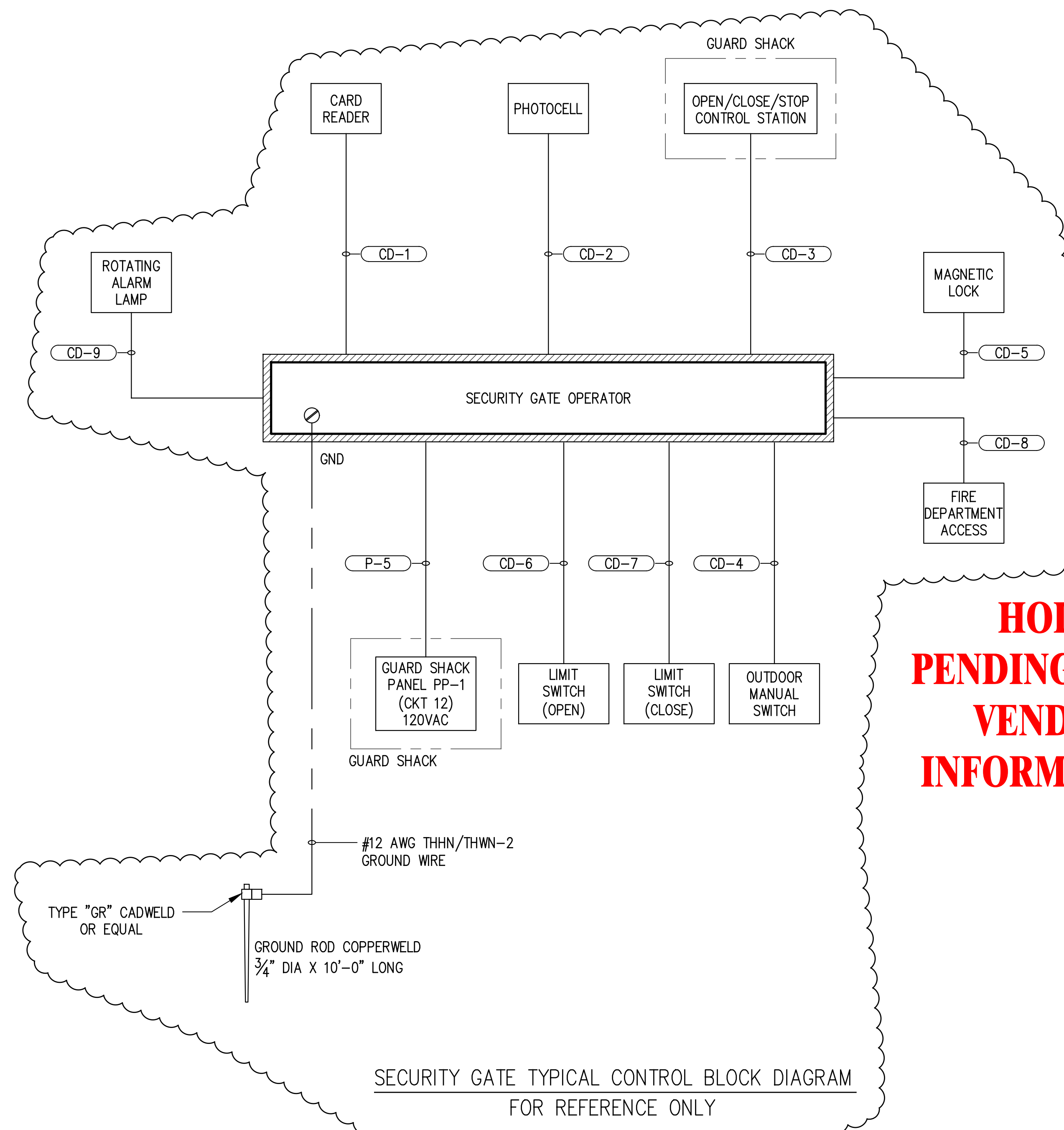
**UNDER DOCK REFURBISHMENT  
ELECTRICAL  
480V ONE-LINE DIAGRAM (PARTIAL)**

SHEET NO.

**E3**

NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
2. SEE SECURITY GATE VENDOR DRAWINGS FOR ADDITIONAL WIRING/TERMINATION INFORMATION OF SECURITY GATE SYSTEM COMPONENTS.



**HOLD  
PENDING FINAL  
VENDOR  
INFORMATION**

**PRELIMINARY  
FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES**  
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VF-185 LSF-10194817  
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REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
				A	03/27/24	THD	PRELIMINARY-FOR BIDS ONLY

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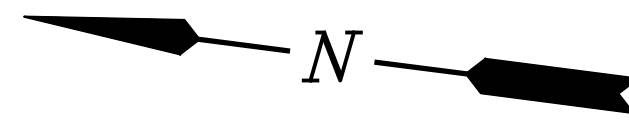
DATE NOV. 2023  
SHT SIZE 22"x34"  
DESIGN AB  
DRAWN WAG  
CHECK JAM  
APPR'D THD  
JOB NO 11832-1

**PORT OF SOUTH LOUISIANA**  
RESERVE LOUISIANA  
**UNDER DOCK REFURBISHMENT  
SECURITY GATE  
CONTROL BLOCK DIAGRAM**

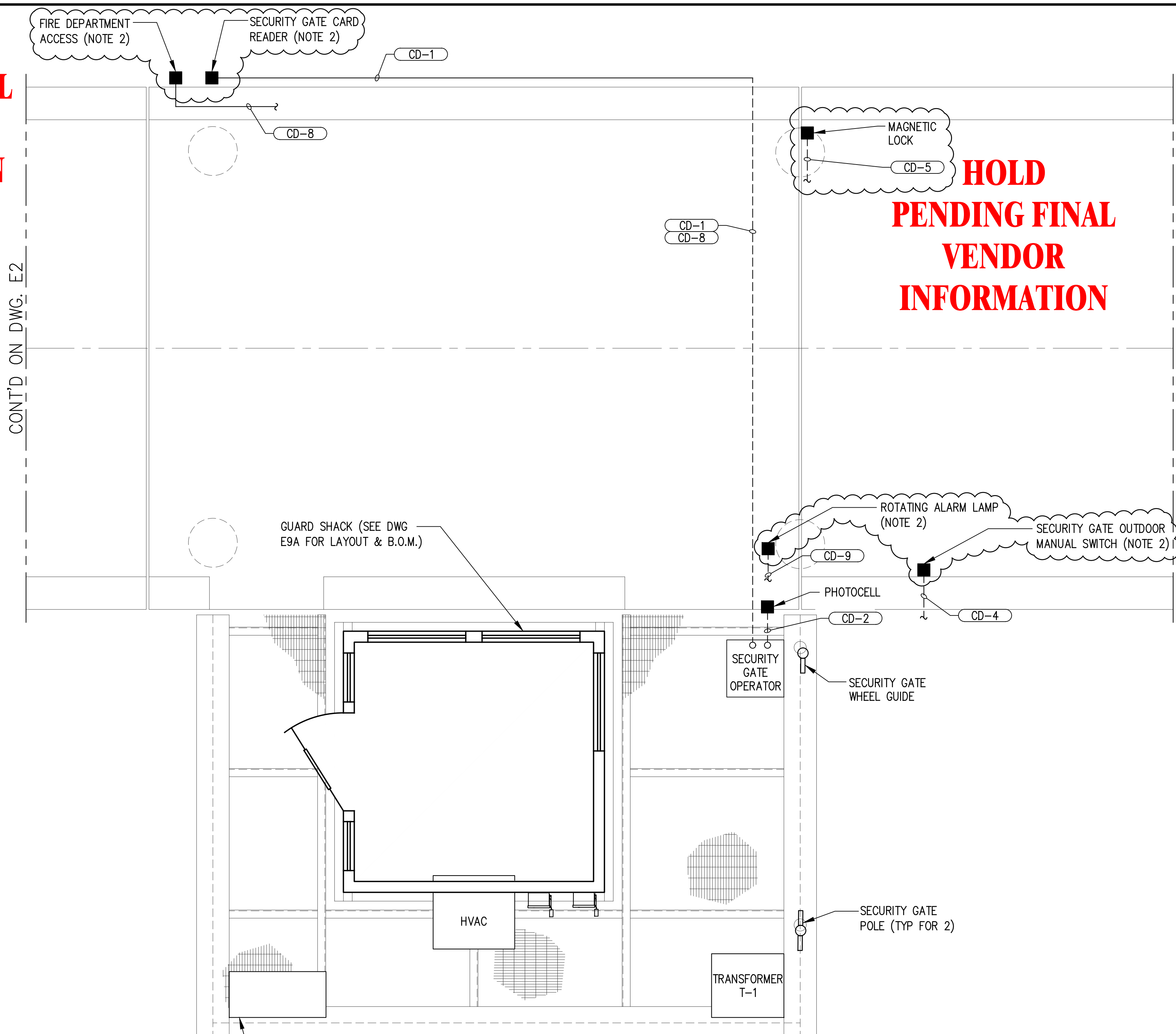
SHEET NO.  
**E4**

3/27/2024 3:11 PM

J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\ELECT\_INST\11832-E5A.DWG



**HOLD  
PENDING FINAL  
VENDOR  
INFORMATION**



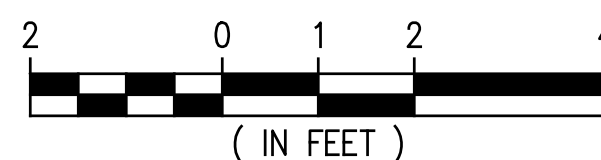
**HOLD  
PENDING FINAL  
VENDOR  
INFORMATION**

NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
2. CONTRACTOR SHALL COORDINATE WITH AN ADM REPRESENTATIVE FOR FINAL LOCATION OF SECURITY GATE DEVICES.

**ENLARGED PLAN  
POWER & CONTROL - APPROACHWAY**

SCALE: 1/2"=1'-0"  
(REF DWG E2)



**PRELIMINARY  
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MARCH 27, 2024

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CONSULTING ENGINEERS, INC.**  
LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817  
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SHT SIZE	22"x34"
DESIGN	AB
DRAWN	KMR
CHECK	JAM
APPR'D	THD
JOB NO.	11832-1

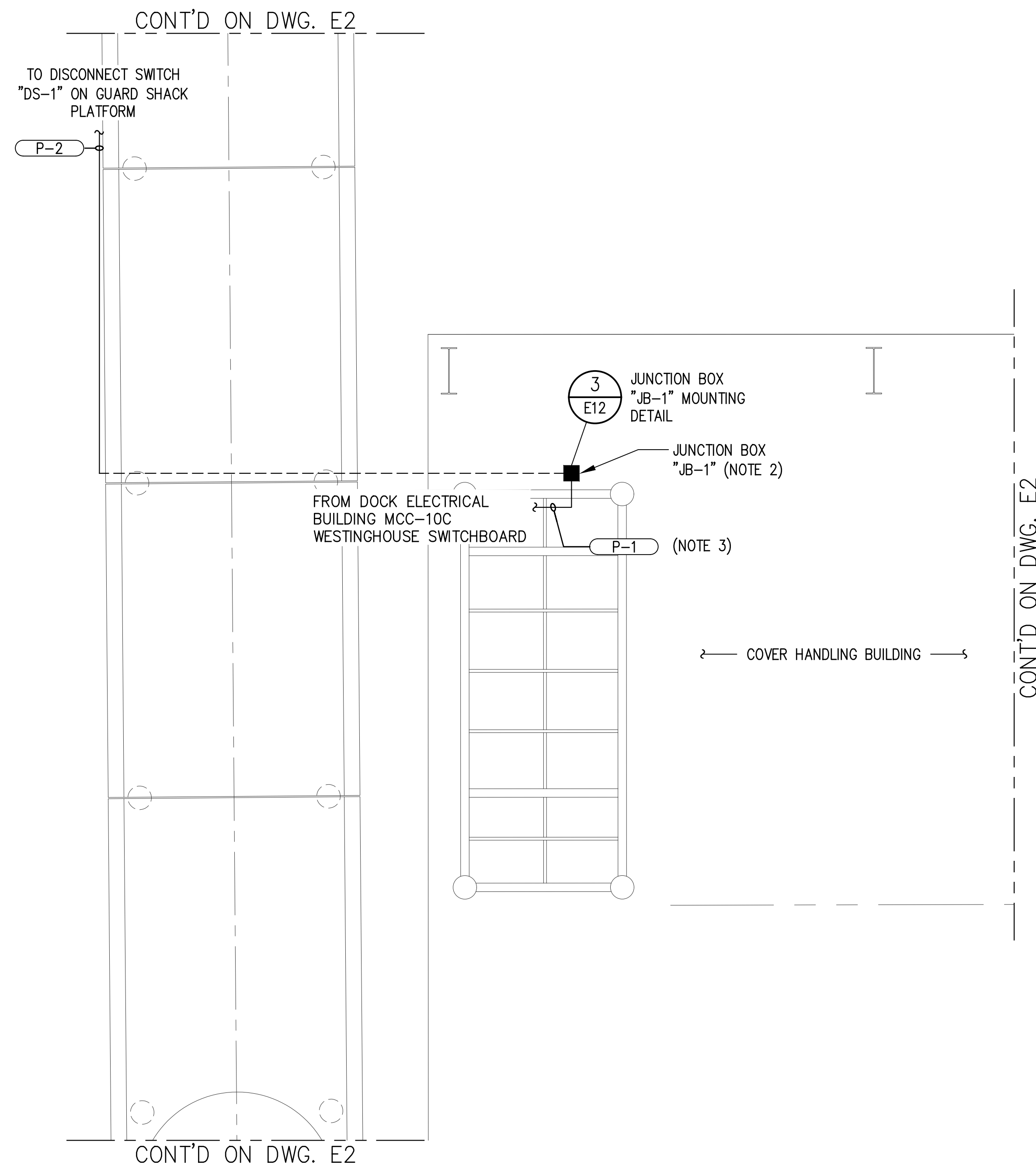
**PORT OF SOUTH LOUISIANA**  
RESERVE LOUISIANA

**UNDER DOCK REFURBISHMENT  
ENLARGED PLAN  
POWER & CONTROL - APPROACHWAY**

SHEET NO.  
**E5A**

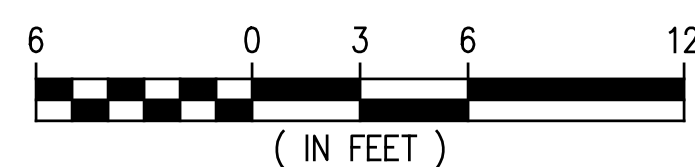
NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
2. CONTRACTOR SHALL COORDINATE JUNCTION BOX "JB-1" FINAL LOCATION WITH AN ADM REPRESENTATIVE.
3. CONTRACTOR SHALL RETERMINATE EXISTING FEEDER CABLE P-1 INSIDE JUNCTION BOX "JB-1". REFER TO DEMO DRAWING ED1 FOR ADDITIONAL INFORMATION.



**ENLARGED PLAN  
POWER & CONTROL - APPROACHWAY**

SCALE: 3/16"=1'-0"  
(REF DWG E2)



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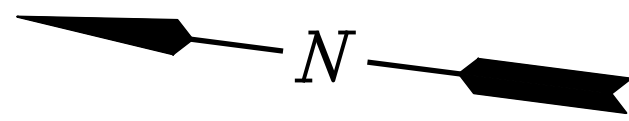
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RESERVE PORT OF SOUTH LOUISIANA LOUISIANA  
**UNDER DOCK REFURBISHMENT  
ENLARGED PLAN  
POWER & CONTROL - APPROACHWAY**

SHEET NO.  
**E5B**



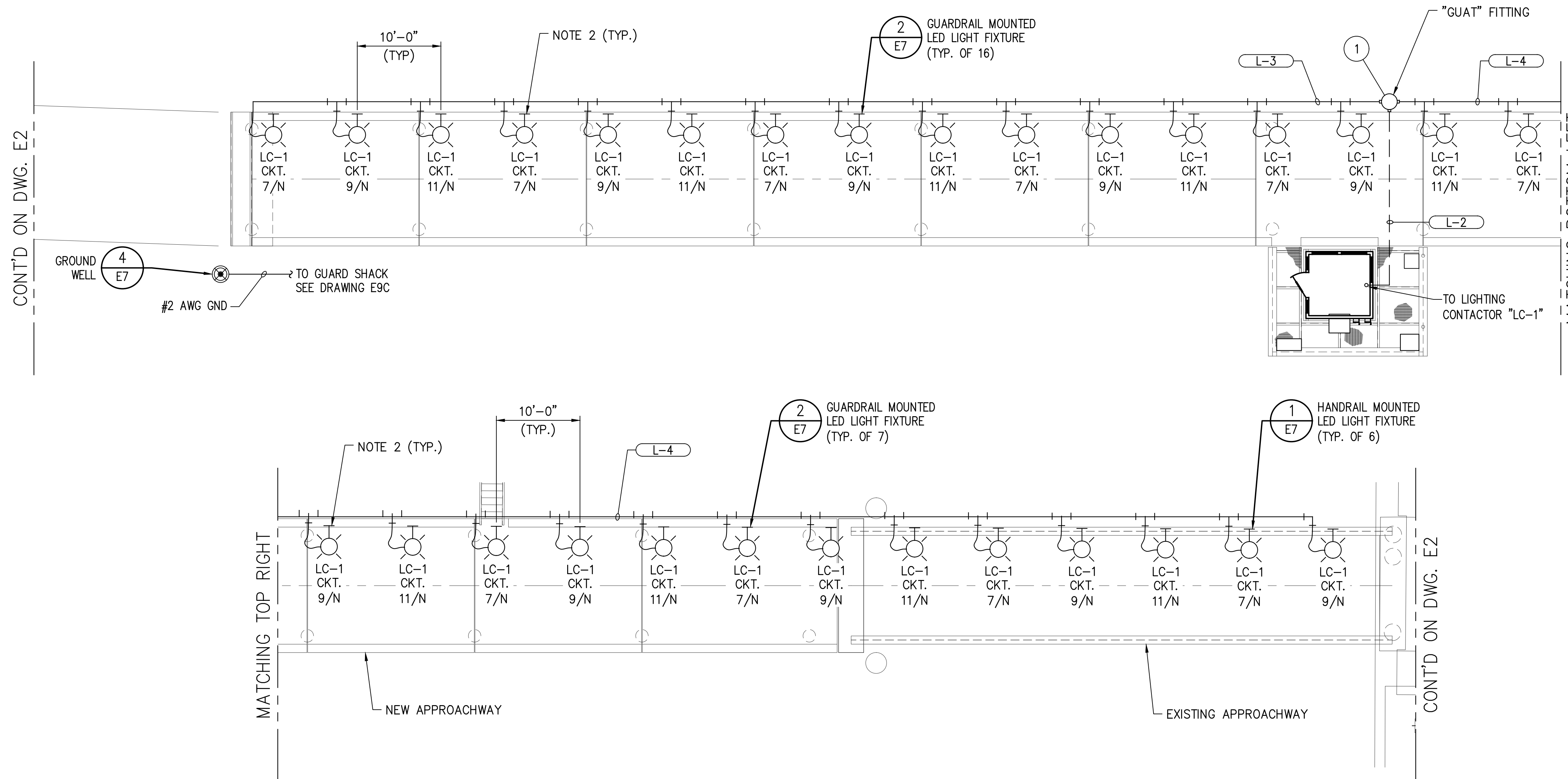


NOTES

- FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
- LIGHT FIXTURES INSTALLED ON THE NORTH SIDE OF THE APPROACHWAY SHALL BE PART OF CIRCUIT "L-3" AND LIGHT FIXTURES INSTALLED ON THE SOUTH SIDE OF THE APPROACHWAY SHALL BE PART OF CIRCUIT "L-4".

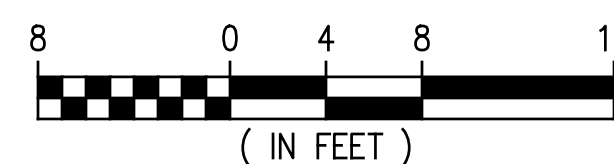
BILL OF MATERIAL

ITEM NO.	QTY	DESCRIPTION
1	1	GUAT FITTING: 3/4" HUB WITH 8 TERMINAL BLOCKS, DIN RAIL MOUNTED, CROUSE-HINDS CAT #GUAT26-DIN18



ENLARGED PLAN  
LIGHTING & GROUNDING - APPROACHWAY

SCALE: 1/8"=1'-0"  
(REF DWG E2)



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MARCH 27, 2024

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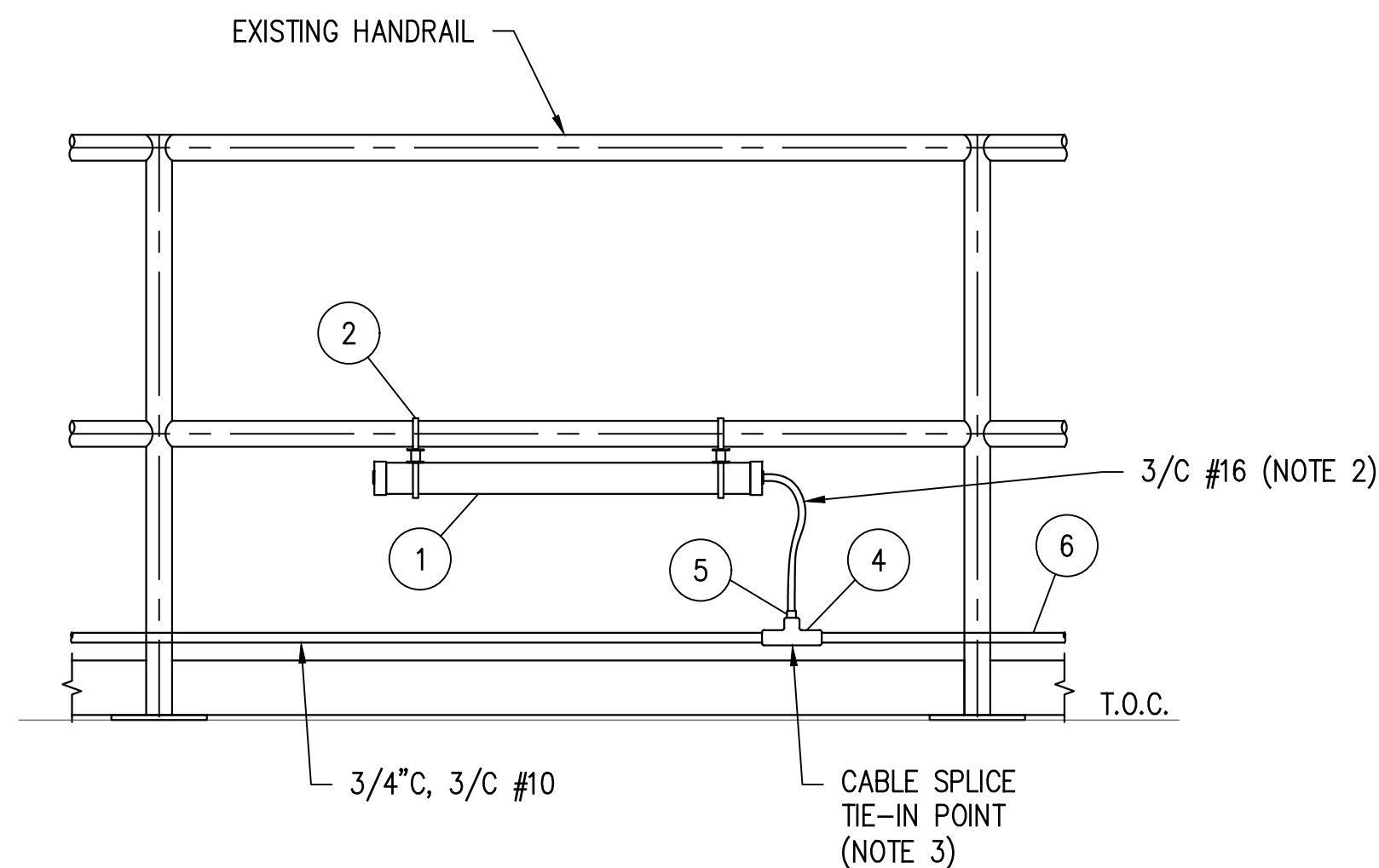
RESERVE PORT OF SOUTH LOUISIANA LOUISIANA

**UNDER DOCK REFURBISHMENT  
ENLARGED PLAN  
LIGHTING & GROUNDING - APPROACHWAY**

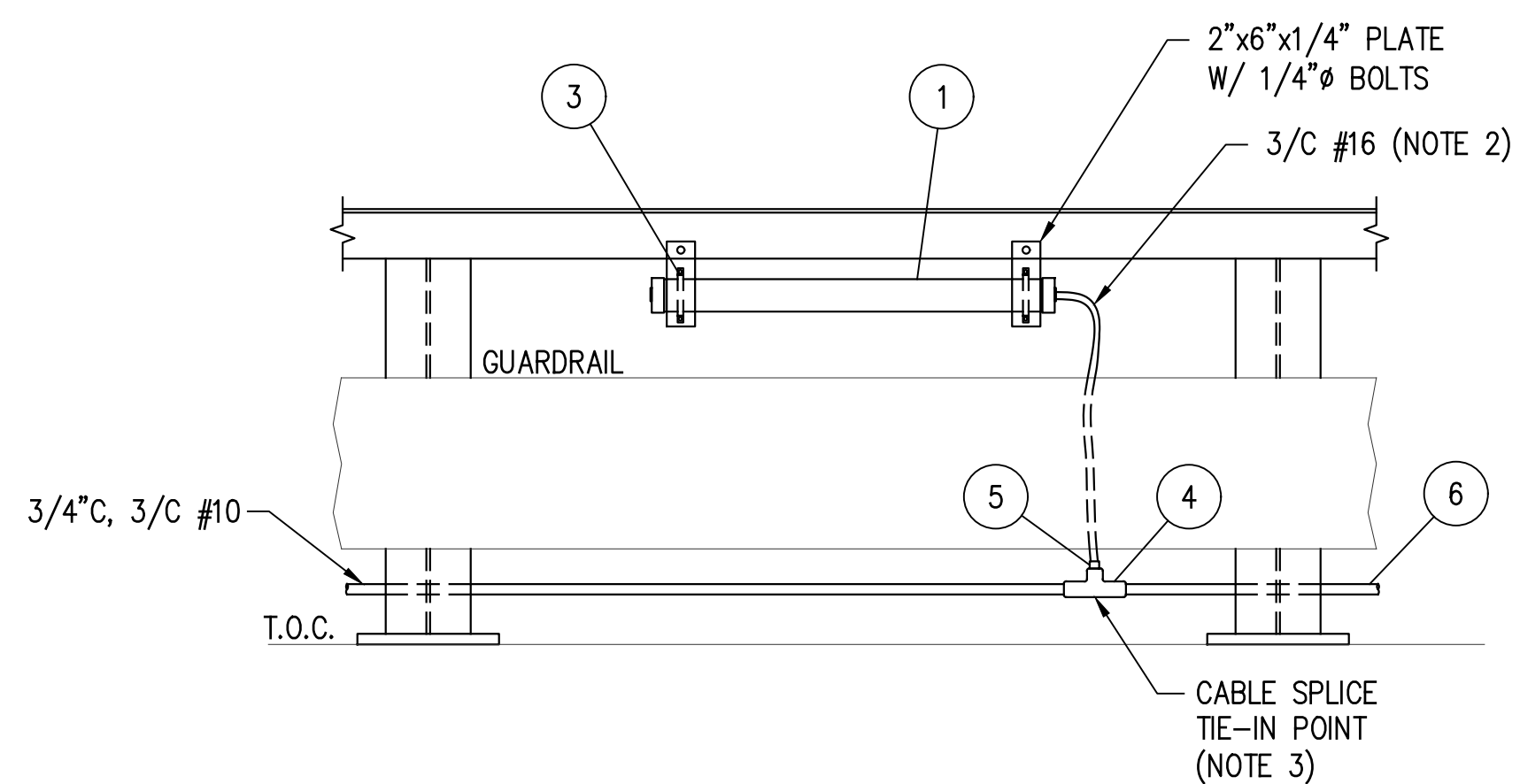
SHEET NO.  
**E6**

NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
2. CORD PROVIDED WITH LED LIGHTING FIXTURE.
3. CONTRACTOR SHALL SPLICE LED FIXTURE WIRING TO 3/C #10 LIGHTING CABLE WITHIN "T" FITTING.
4. GROUND WIRE SHALL BE SINGLE CONDUCTOR COPPER STRANDED TYPE THHN/THWN-2 WITH GREEN INSULATION.



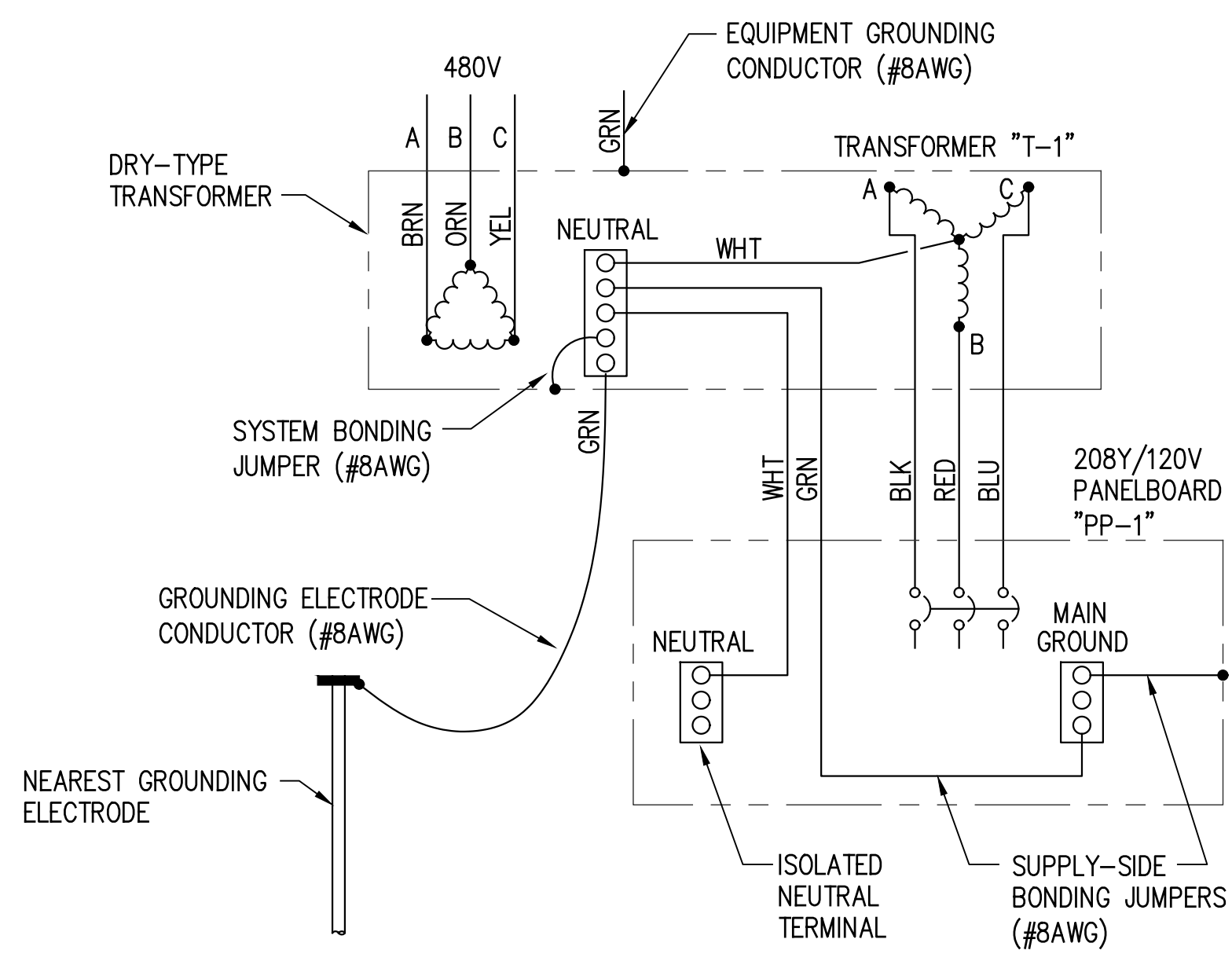
**HANDRAIL MOUNTED LED LIGHT FIXTURE** 1  
SCALE: N.T.S. E6



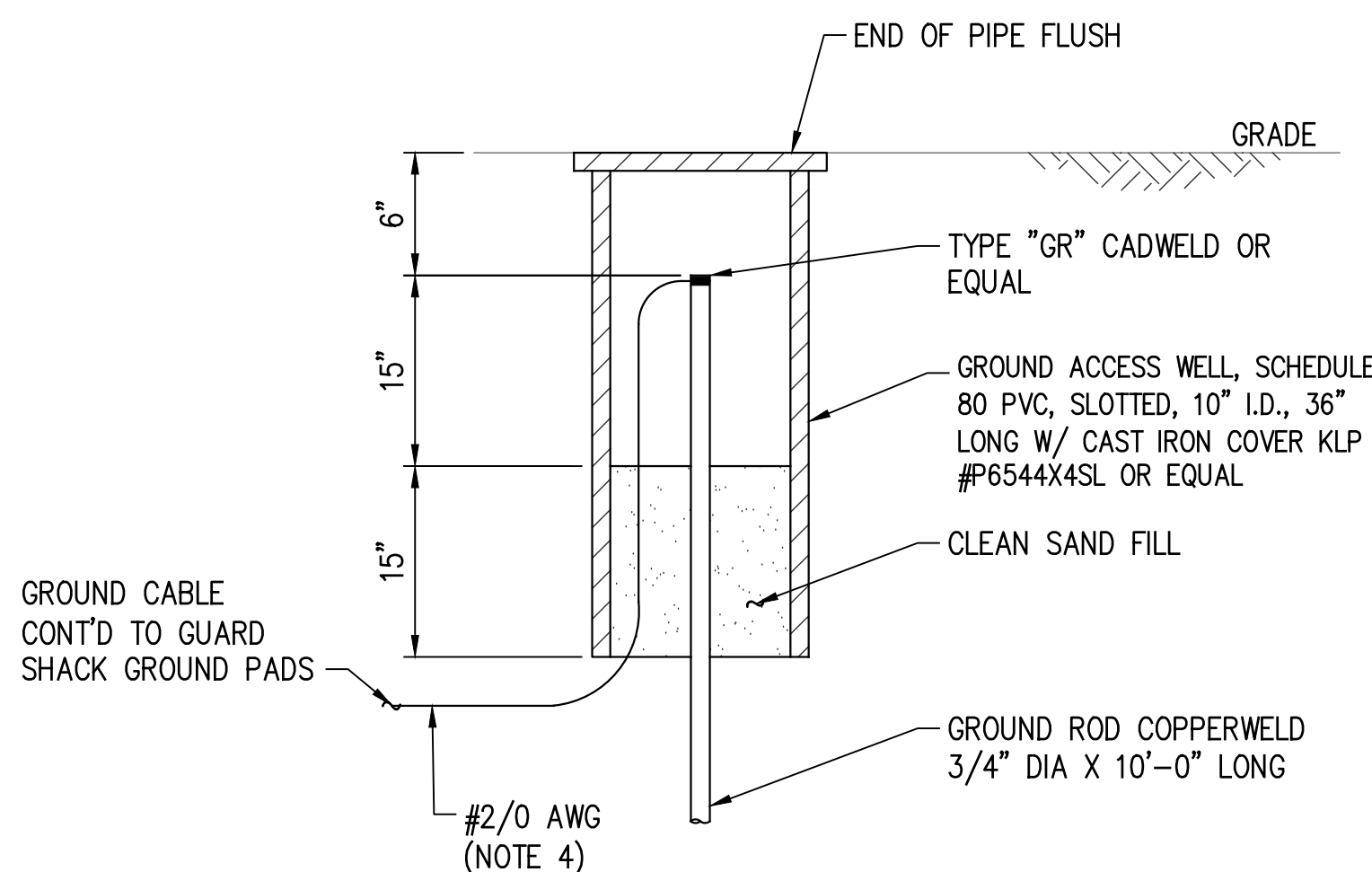
**GUARDRAIL MOUNTED LED LIGHT FIXTURE** 2  
SCALE: N.T.S. E6

BILL OF MATERIAL

ITEM NO.	QTY	DESCRIPTION
1	29	HANDRAIL MOUNTED LIGHT: LEDLT, LED TUBE LIGHT, COOL WHITE, 120-277V, 50-60HZ, ONE 5FT CORD WITH PIGTAIL, PHOENIX CAT. #LEDLT-28
2	6	RAIL MOUNTS: PHOENIX CAT. #RLMT-LEDLT
3	23	SURFACE MOUNTS: PHOENIX CAT. #MB-LEDLT
4	AS REQ'D	CONDULET, 3/4", "T" FITTING W/ GASKETED COVER, CROUSE-HINDS #T27CG
5	AS REQ'D	CORD & CABLE FITTING, CROUSE-HINDS TYPE 'CGB' (SIZE AS REQ'D)
6	AS REQ'D	CONDUIT, RIGID GALVANIZED STEEL (AS NOTED)

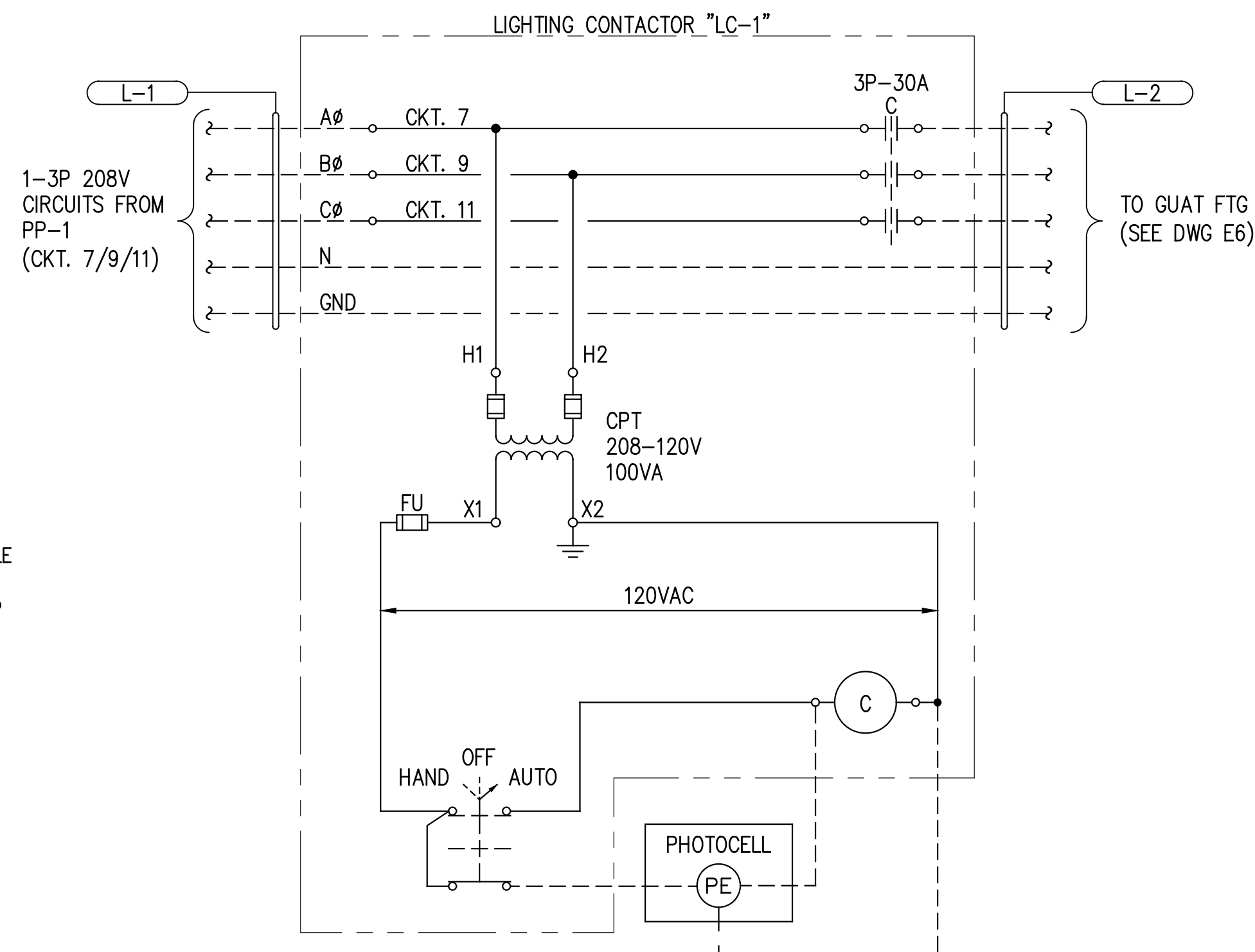


**3 PHASE TRANSFORMER T-1/PANELBOARD PP-1**  
**GROUNDING ARRANGEMENT SIMILAR TO NEC EXHIBIT 250.15**



- NOTES:
1. SEE PLAN DRAWINGS FOR LOCATION OF GROUNDWELL.
  2. LENGTH OF 12" NPD CONCRETE PIPE SHALL BE 24" MINIMUM.
  3. GROUND CABLE SHALL BE BURIED A MINIMUM OF 24" BELOW GRADE.

**GROUNDWELL DETAIL** 4  
SCALE: N.T.S. E6



**208VAC LIGHTING CONTACTOR**  
**SCHEMATIC DIAGRAM**  
ONE-LINE DWG. E3

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MARCH 27, 2024

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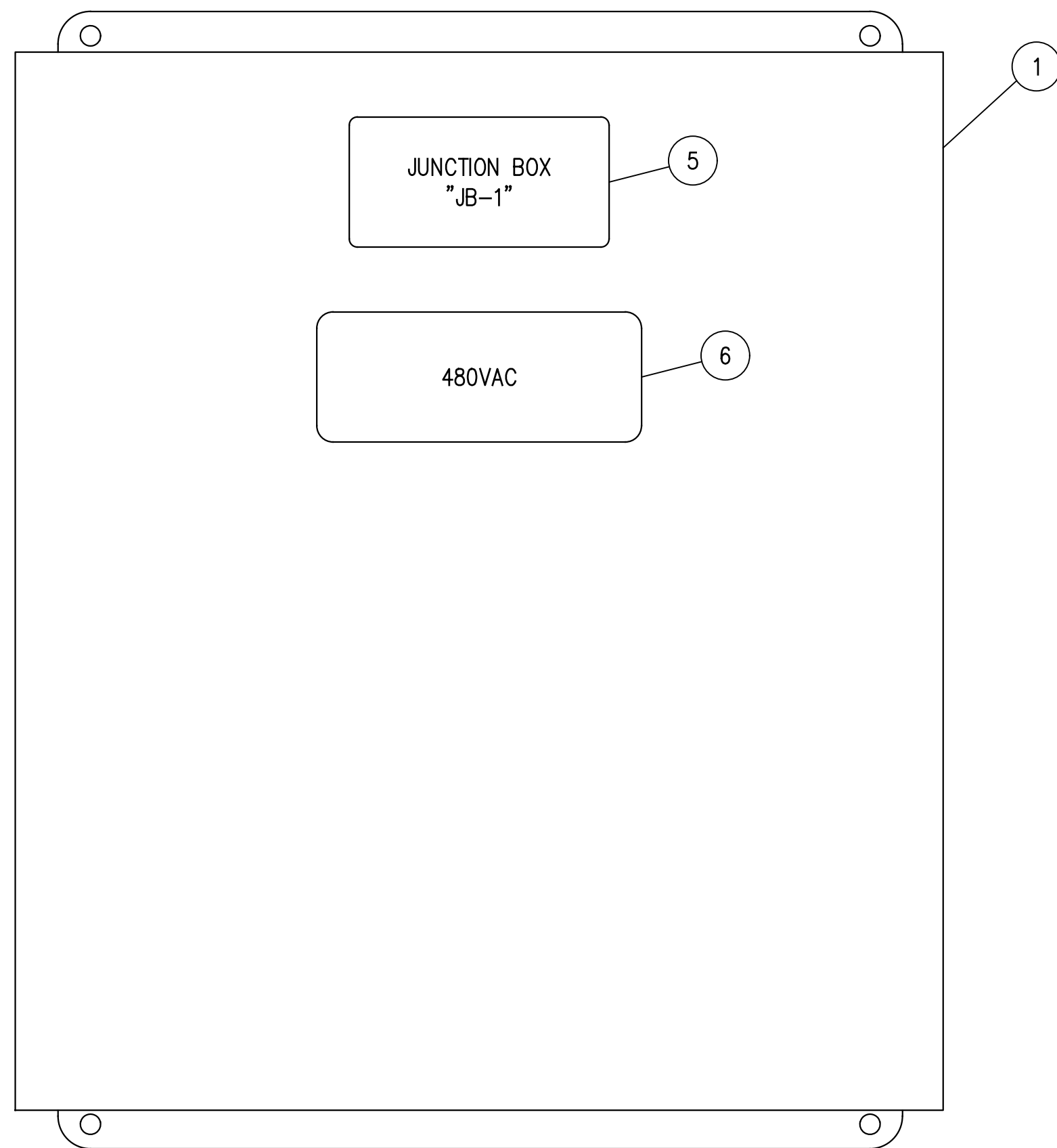
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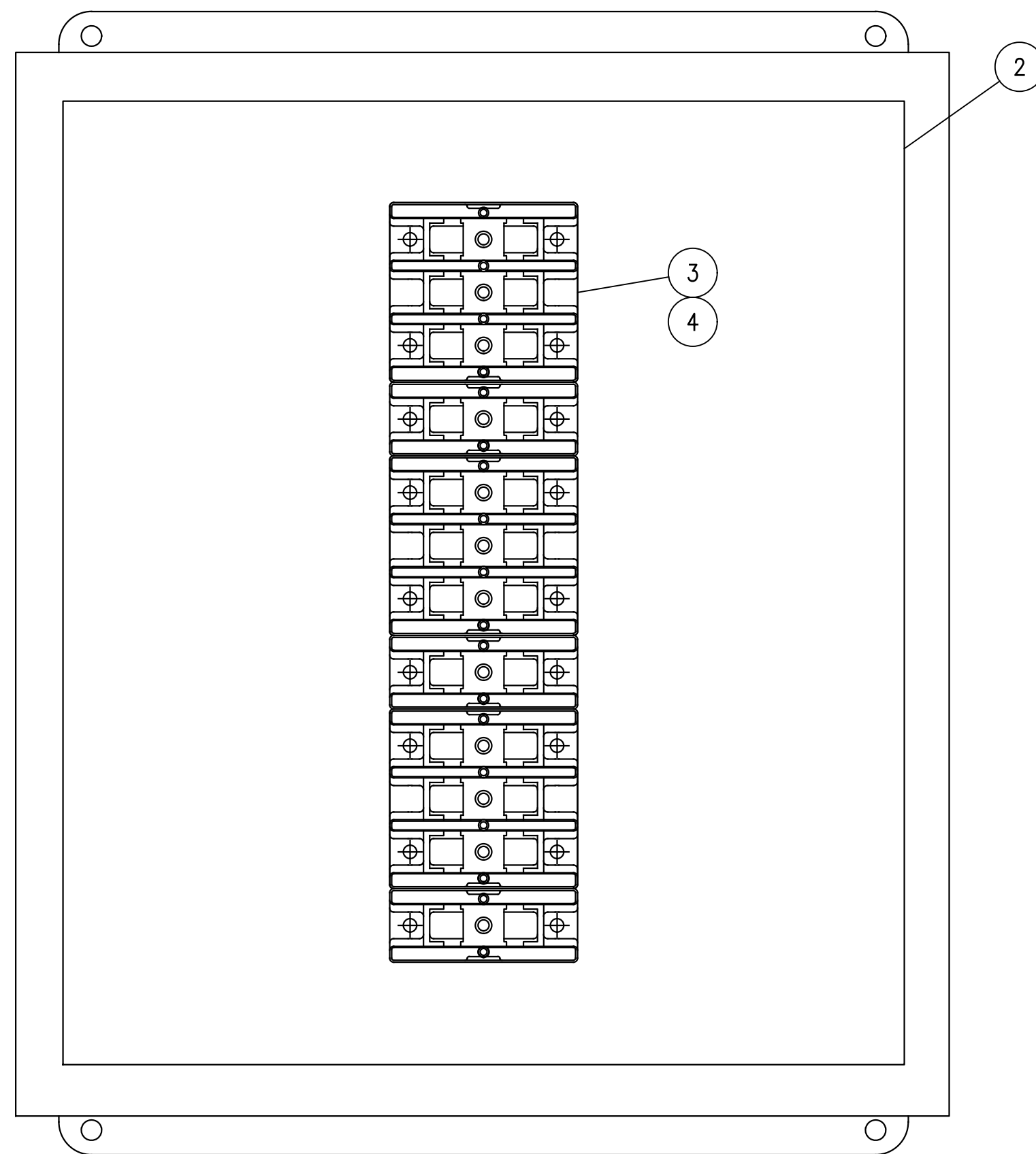
RESERVE PORT OF SOUTH LOUISIANA LOUISIANA

**UNDER DOCK REFURBISHMENT**  
**MISC.**  
**ELECTRICAL DETAILS**

SHEET NO. **E7**



**JUNCTION BOX "JB-1"**  
**DOOR MOUNTED EQUIPMENT LAYOUT**



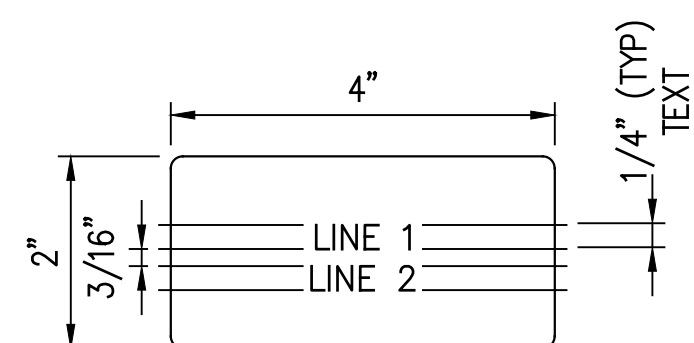
**JUNCTION BOX "JB-1"**  
**INTERIOR EQUIPMENT LAYOUT**

NOTES

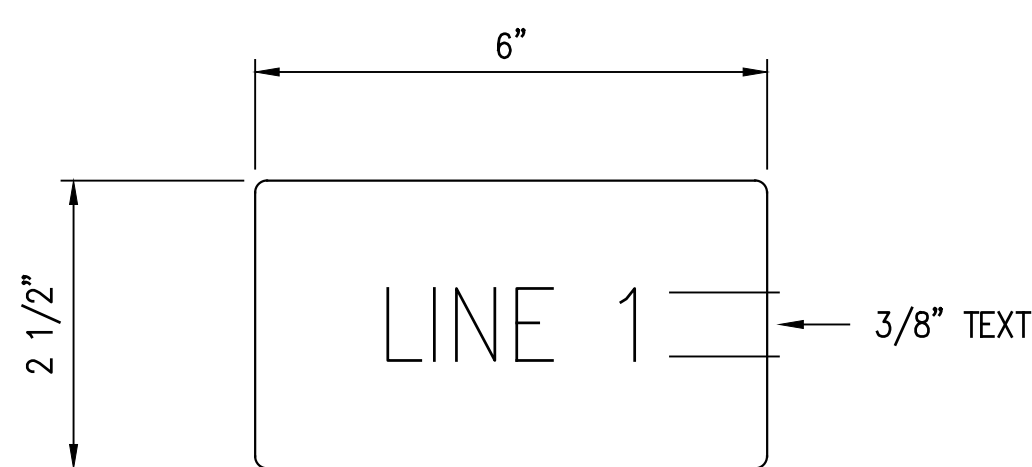
1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
2. THERE SHALL BE NO SUBSTITUTION OF EQUIPMENT WITHOUT PRIOR ENGINEERING APPROVAL.
3. ALL WIRES SHALL BE CLEARLY MARKED WITH RAYCHEM "TMS" MARKERS (OR EQUAL) AT TERMINATING POINTS USING CIRCUIT DESIGNATIONS. CONTRACTOR TO FURNISH TYPED AND PERMATIZED MARKERS; HAND WRITTEN MARKERS ARE NOT ACCEPTABLE.
4. SEE PLAN DRAWING E4B FOR MOUNTING LOCATION OF PANEL.
5. TEXT SHALL BE CENTERED ON NAMEPLATE.
6. NAMEPLATES SHALL BE ATTACHED USING 316 STAINLESS STEEL SELF TAPPING SCREWS.
7. SEAL SCREW PENETRATIONS ON REAR OF ENCLOSURE DOOR WITH DOW-CORNING DC-4 OR EQUAL.
8. NAMEPLATES TO BE WEATHER RESISTANT MICARTA 1/8" THICK, BEVELLED EDGES, BLACK LETTERS ON A WHITE BACKGROUND UNLESS OTHERWISE NOTED.
9. NAMEPLATES TO BE WEATHER RESISTANT MICARTA 1/8" THICK, BEVELLED EDGES, BLACK LETTERING ON A RED BACKGROUND. SIGNAL WORDS SHALL BE SANS SERIF LETTERING IN UPPER CASE ONLY.

BILL OF MATERIAL

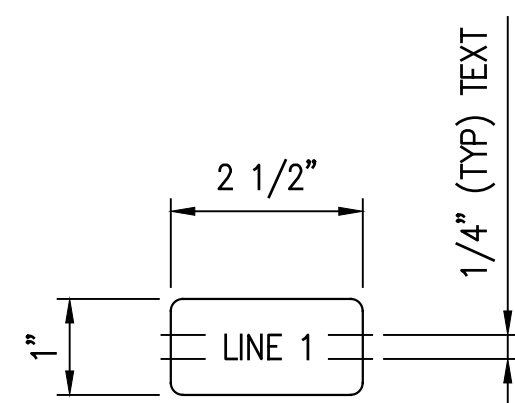
ITEM NO.	QTY.	DESCRIPTION
1	1	PANEL ENCLOSURE: TYPE NEMA 4X, 16"H x 14"W x 6"D, 316 STAINLESS STEEL, HOFFMAN CAT. #A1614NFSS6
2	1	PANEL: REAR MOUNTING PLATE, 14.75"H x 12.88"W, HOFFMAN CAT. #A16P14
3	3	POWER DISTRIBUTION BLOCK, 600V, COPPER, 175A RATED, THREE POLE, (1) #14-2/0 AWG (MAIN), #14-2/0 AWG (BRANCH), SQUARE D CAT. #9080LBC362101 W/ COVER 9080LB23
4	3	POWER DISTRIBUTION BLOCK, 600V, COPPER, 175A RATED, ONE POLE, (1) #14-2/0 AWG (MAIN), (1) #14-2/0 AWG (BRANCH), SQUARE D CAT. #9080LBC162101 W/ COVER 9080LB21
5	1	NP1
6	1	NP2



**DETAIL 1**  
SCALE: N.T.S.



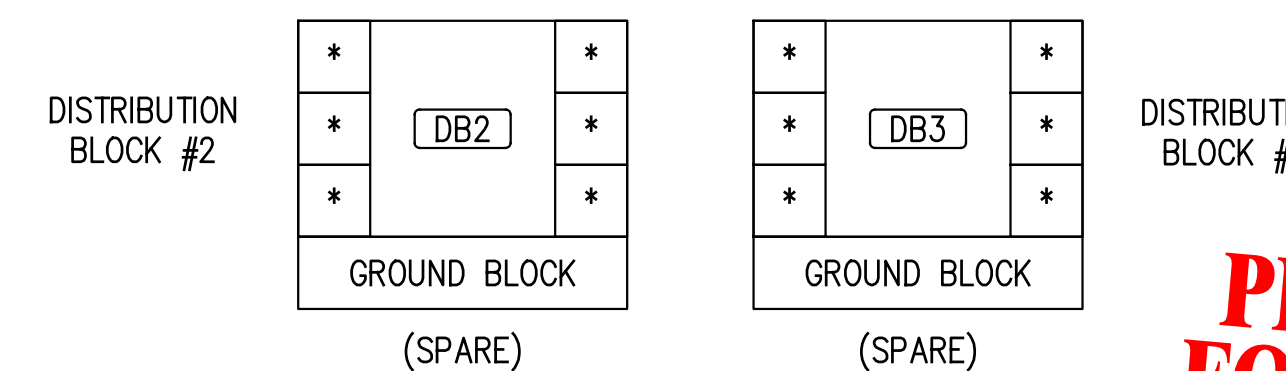
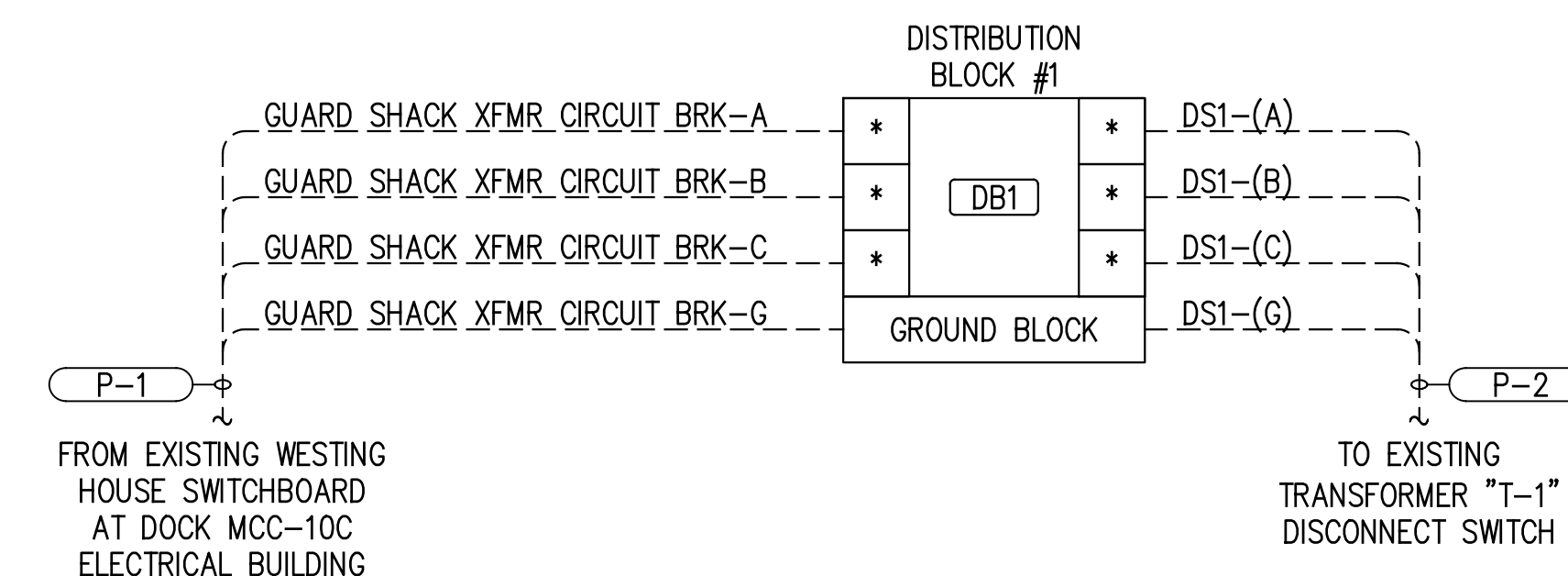
**DETAIL 2**  
SCALE: N.T.S.



**DETAIL 3**  
SCALE: N.T.S.

NAMEPLATE SCHEDULE

NAME PLATE	SIZE	ENGRAVING	NAMEPLATE NOTES	REFERENCE DRAWING	DETAIL
NP1	2" X 4"	JUNCTION BOX JB-1	-	-	1
NP2	2 1/2" X 6"	480VAC	-	-	2
DB1	1" X 2 1/2"	DB1	-	-	3
DB2	1" X 2 1/2"	DB2	-	-	3
DB3	1" X 2 1/2"	DB3	-	-	3



**JUNCTION BOX "JB-1"**  
**WIRING DIAGRAM**

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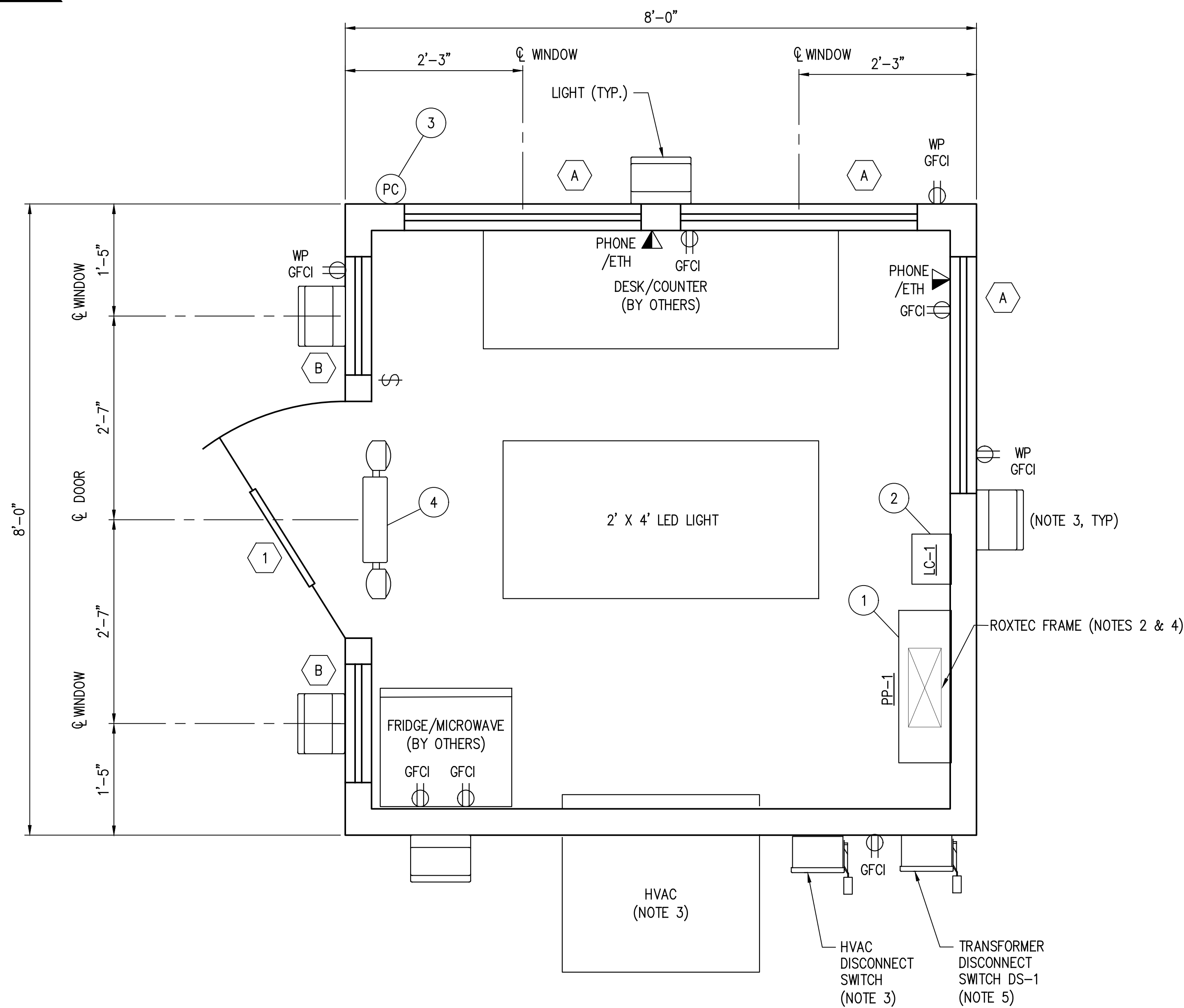
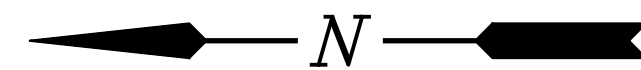
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RESERVE PORT OF SOUTH LOUISIANA LOUISIANA  
**UNDER DOCK REFURBISHMENT**  
**JUNCTION BOX "JB-1"**  
**LAYOUT & BILL OF MATERIAL**

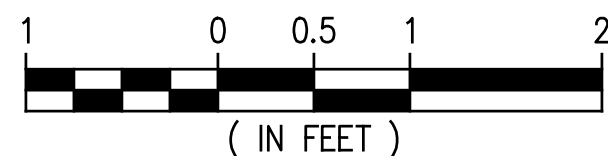
SHEET NO.  
**E8**



**GUARD SHACK BUILDING**

**PLAN**

SCALE: 1"=1'-0"



**NOTES**

- FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
- ROXTEC TRANSIT FRAME SHALL BE FURNISHED, INSTALLED AND SIZED BY BUILDING MANUFACTURER. THE BUILDING VENDOR SHALL CONTACT ROXTEC @ 225-772-2670 FOR ASSISTANCE WITH SIZING AND INSTALLATION OF THE ROXTEC FRAME. BUILDING VENDOR SHALL CONFIRM THAT ALL PROPER INSTALLATION PROCEDURES ARE FOLLOWED PER ROXTEC'S RECOMMENDATIONS.
- FURNISHED AND INSTALLED BY BUILDING MANUFACTURER.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROCUREMENT AND INSTALLATION OF ALL ROXTEC WEDGES, STAYPLATES AND MODULES.
- FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

**OPENING SCHEDULE**

ITEM	QTY.	SIZE	DESCRIPTION
1	1	7'-0" x 3'-0"	METAL DOOR W/ HALF GLASS (WIRE REINFORCED) PANIC BAR TYPE W/ AUTOMATIC CLOSURE
A	3	4'-0" x 3'-0"	FIXED TYPE WINDOW W/ WIRE REINFORCED PL. GLASS
B	2	4'-0" x 1'-6"	FIXED TYPE WINDOW W/ WIRE REINFORCED PL. GLASS

**BILL OF MATERIAL**

ITEM NO.	QTY	DESCRIPTION
1	1	POWER PANEL: 120/208VAC, 3Ø, 4 WIRE, 100A, COPPER BUS, 30 CKTS, 18KAIC FULLY RATED, 50A MAIN BREAKER, NEMA 1 ENCLOSURE (EATON CAT #EZB2042R), BOTTOM FED, SURFACE MOUNTED, EATON CAT #P1A100BB30CHO1, MAIN BREAKER: 50A/3P, 18KAIC, CAT #EHD3050, BRANCH CIRCUIT BREAKERS: (1) 2P/30A, 18KAIC, CAT #QBHW2030H, (20) 1P/20A, 18KAIC, CAT #QBHW1020, (1) 3P/25A, 18KAIC, CAT #QBHW3025H, (1) 2P/20A, 18KAIC, CAT #QBHW2020H, (1) 3P/50A, 18KAIC, CAT #QBHW3050H (NOTE 3)
2	1	LIGHTING CONTACTOR: NON-COMBINATION 120VAC, 3Ø, 3-POLE, ELECTRICALLY HELD, NEMA 1 ENCLOSURE, 3 POSITION SELECTOR SWITCH, "HAND-OFF-AUTO", CONTROL POWER TRANSFORMER W/ PRIMARY AND SECONDARY FUSES, 120VAC COIL, EATON CAT. #ECL03C183-C1S3 (NOTE 3)
3	1	PHOTOCELL: 120VAC, 60HZ, CROUSE-HINDS CAT. #D2S20, MOUNTED IN A SINGLE GANG BOX, CROUSE-HINDS CAT. #FSC2-SA (NOTE 3)
4	1	120VAC COMBINATION EMERGENCY EXIT LIGHT, LED LIGHT WITH BATTERY PACK (NOTE 3)

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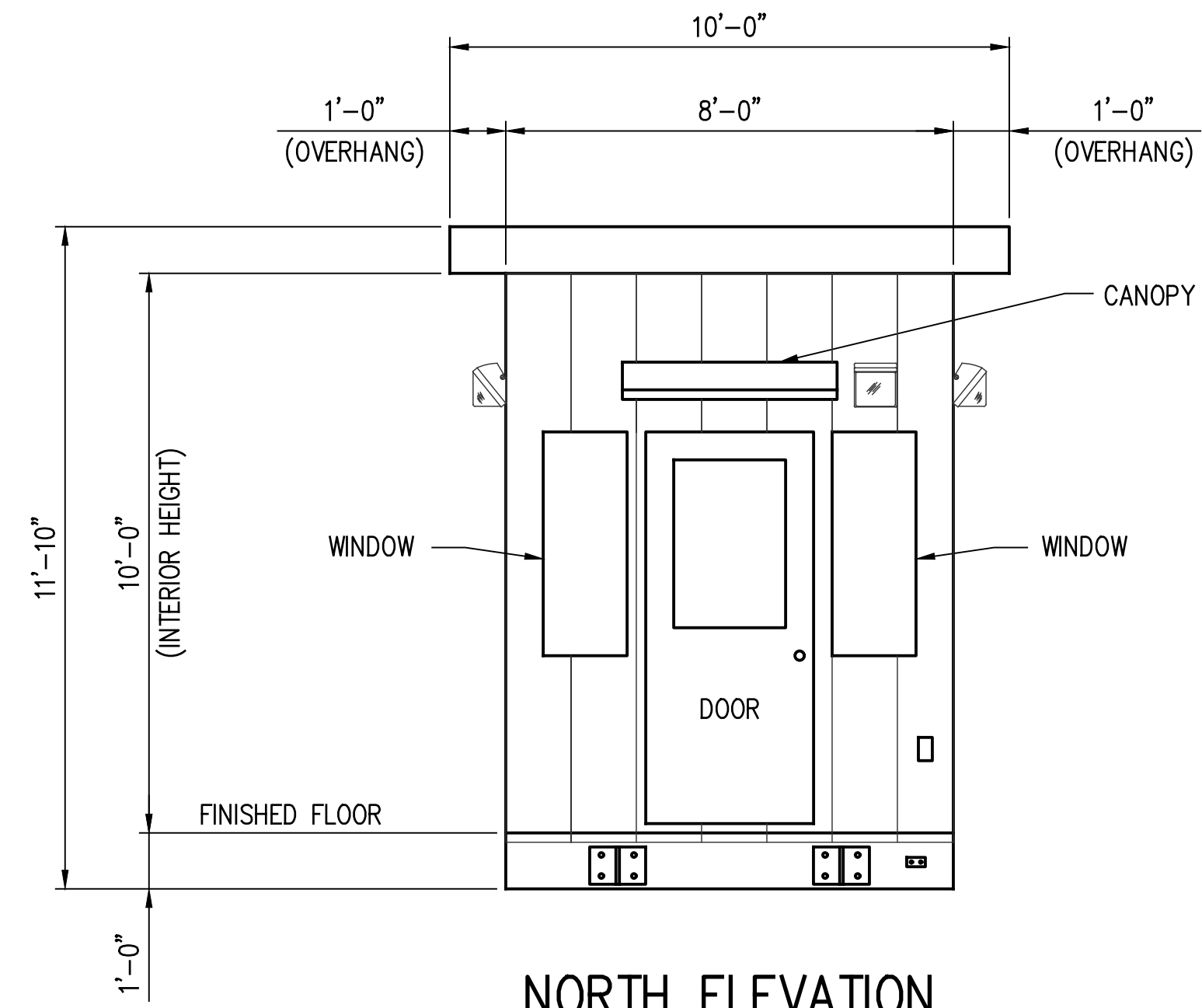
RESERVE PORT OF SOUTH LOUISIANA LOUISIANA

**UNDER DOCK REFURBISHMENT  
GUARD SHACK BUILDING  
LAYOUT AND BILL OF MATERIAL**

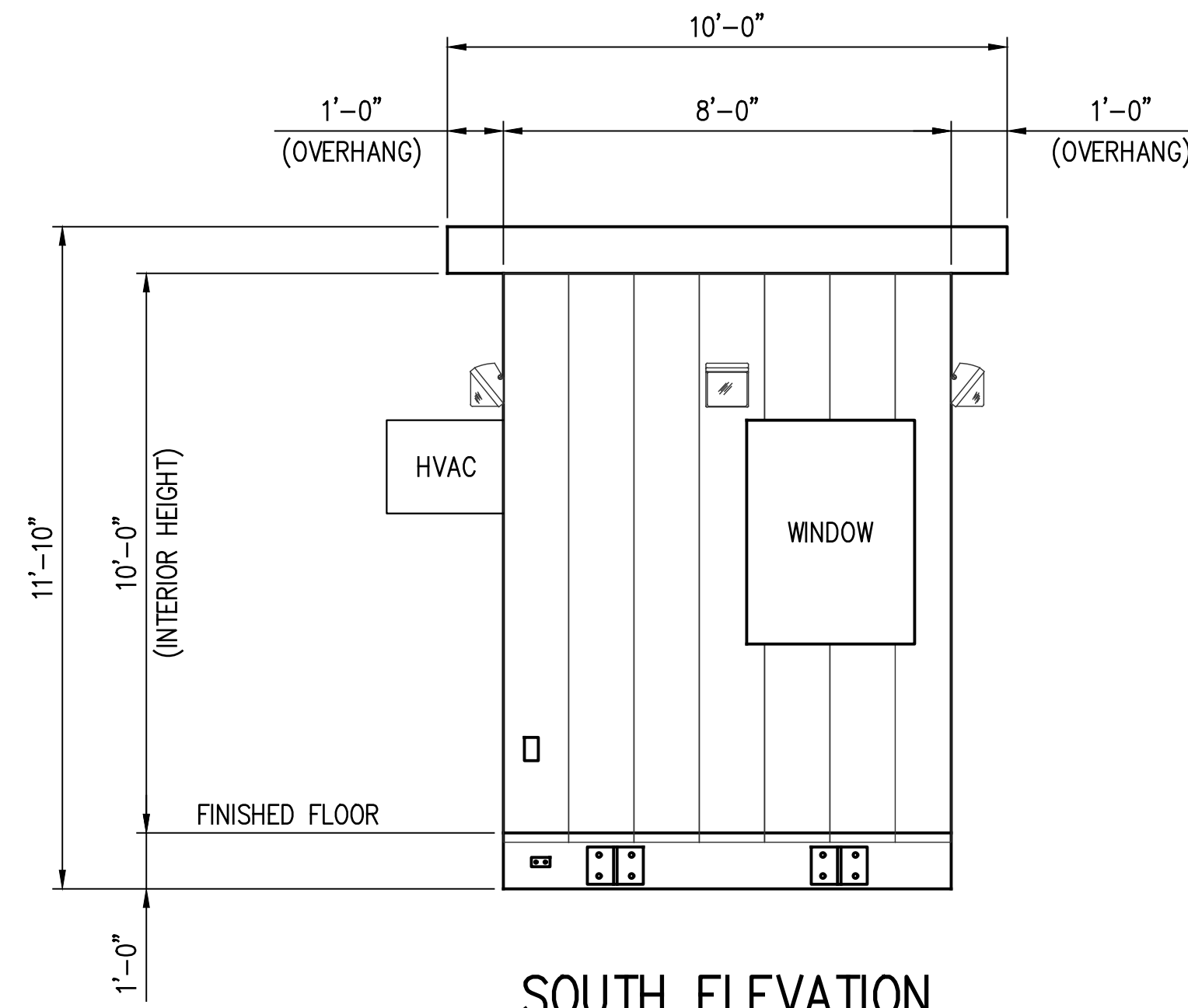
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NOTES

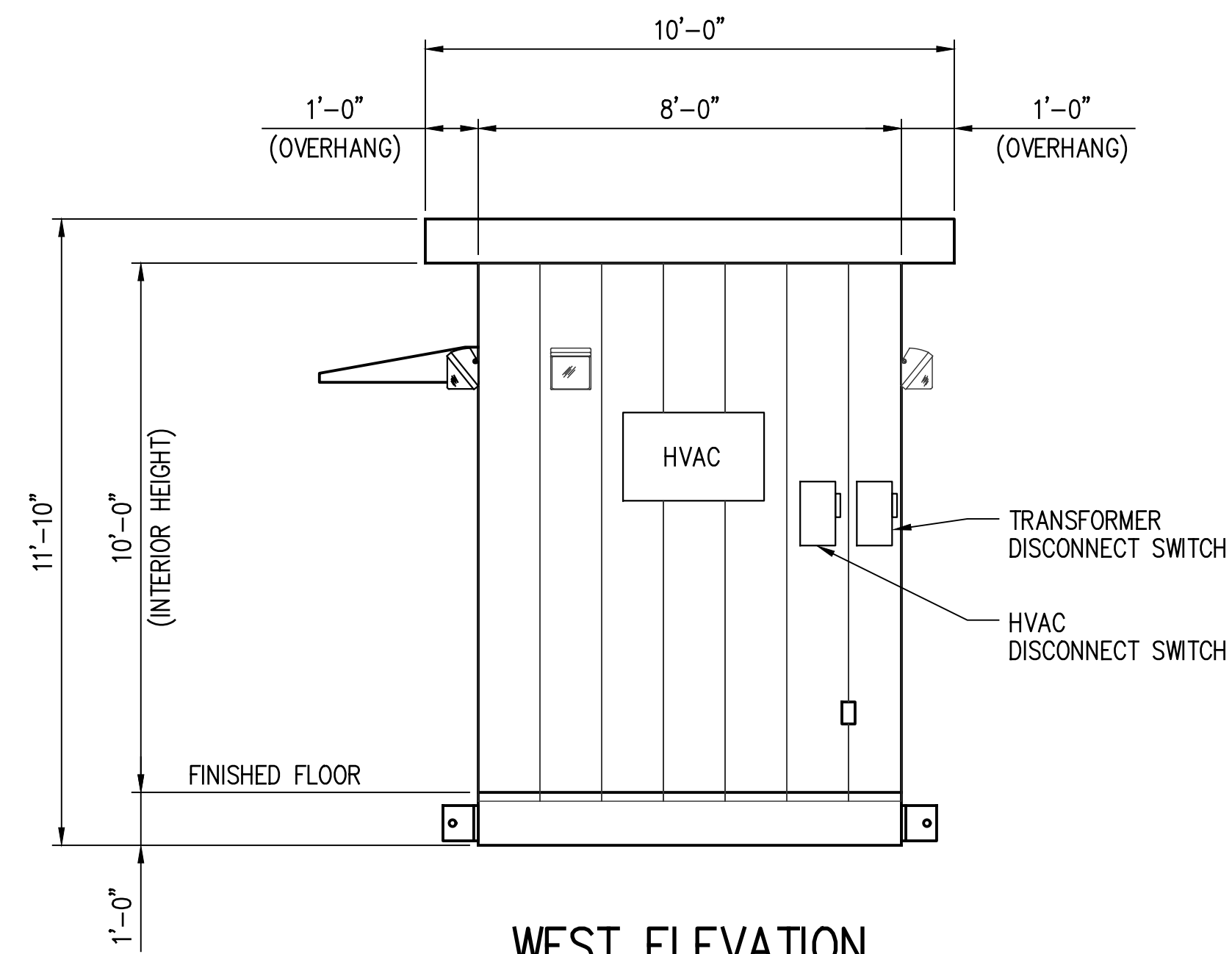
1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.



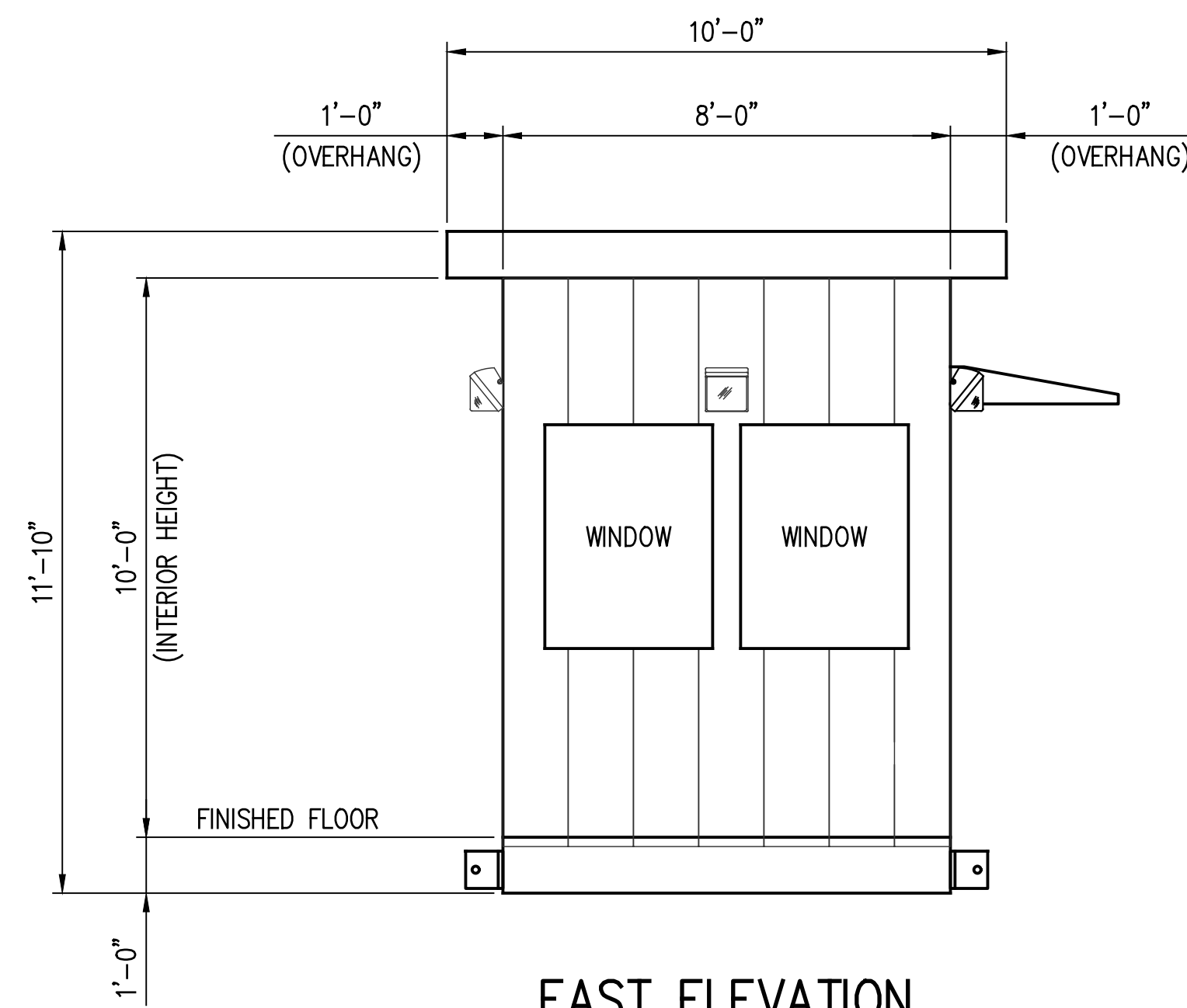
**NORTH ELEVATION**



**SOUTH ELEVATION**



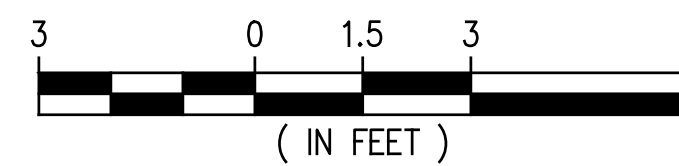
**WEST ELEVATION**



**EAST ELEVATION**

**GUARD SHACK BUILDING  
ELEVATIONS**

SCALE: 3/8"=1'-0"



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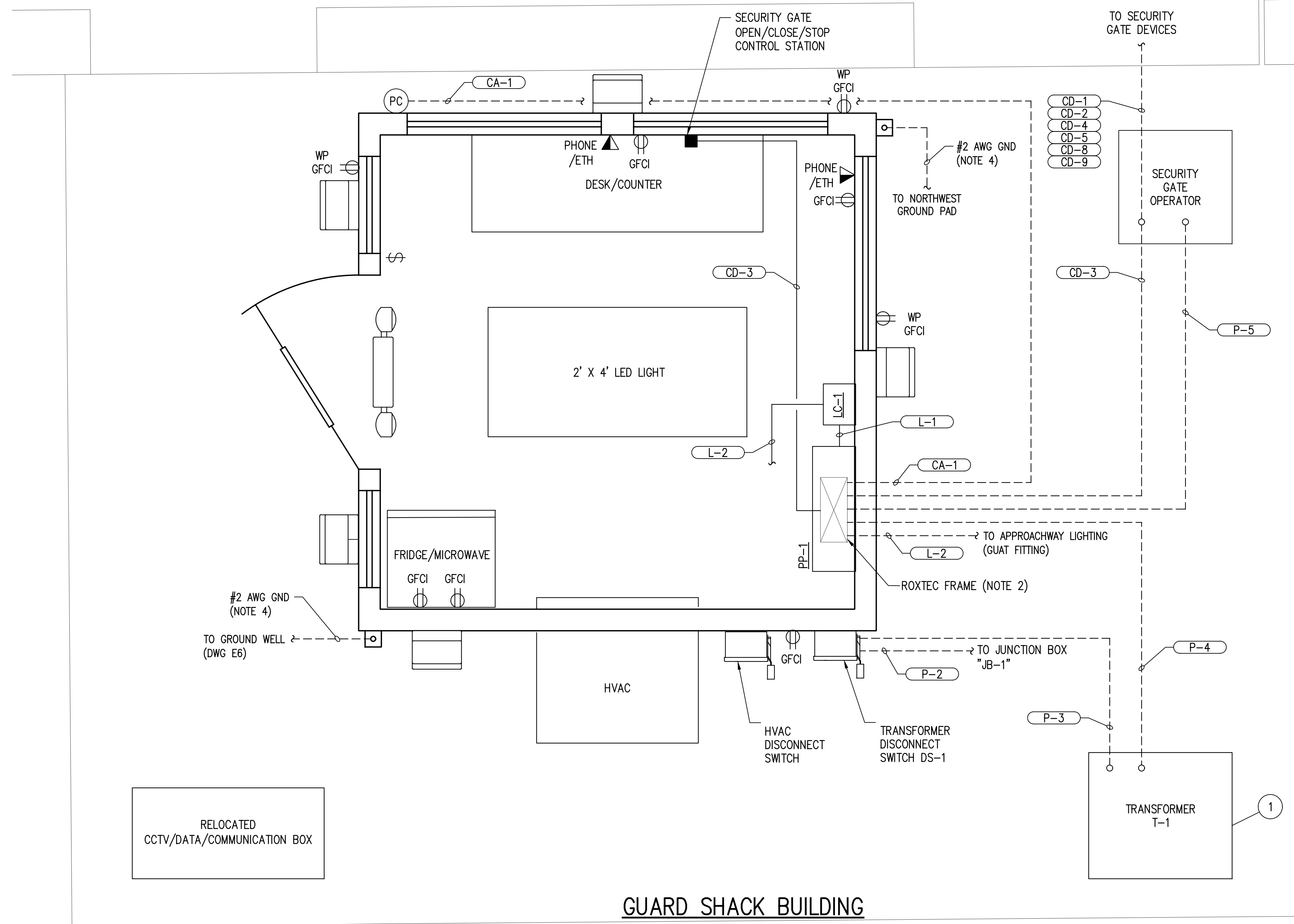
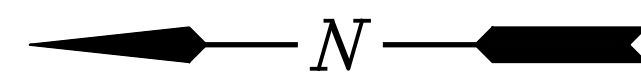
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APPR'D THD  
JOB NO 11832-1

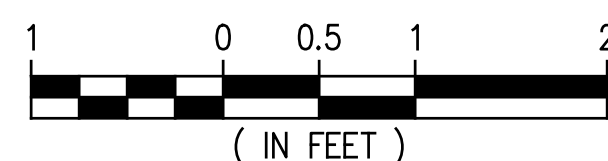
**PORT OF SOUTH LOUISIANA**  
RESERVE LOUISIANA  
**UNDER DOCK REFURBISHMENT  
GUARD SHACK BUILDING  
ELEVATIONS**

SHEET NO.  
**E9B**



**GUARD SHACK BUILDING**  
**POWER AND CONTROL PLAN**

SCALE: 1"=1'-0"



NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
2. ALL GUARD SHACK INCOMING AND OUTGOING CABLES PENETRATIONS SHALL PASS THROUGH THE ROXTEC TRANSIT PENETRATION.
3. CONDUITS ARE SHOWN AS SINGLE LINE FOR CLARITY.
4. THE GROUNDING SYSTEM SHALL HAVE A RESISTANCE TO GROUND OF 5 OHMS OR LESS. IF NEEDED SUPPLEMENTARY GROUNDING ELECTRODES SHALL BE INSTALLED.
5. FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

BILL OF MATERIAL

ITEM NO.	QTY	DESCRIPTION
1	1	TRANSFORMER: 15 KVA, 480/208 V, 3-PH, EATON CAT. # V48M28T1516CU WITH NEMA 3R WEATHERSHIELD KIT CAT. #WS57 AND RODENT SCREEN CAT. #RS57. (NOTE 5)
2	1	FUSED DISCONNECT SWITCH: 480 V, 3-PH, NEMA 4X, STAINLESS STEEL ENCLOSURE, EATON CAT. #DH361FWK, WITH 25 A FUSES TRS-R TYPE. (NOTE 5)

**PRELIMINARY**  
**FOR BIDS ONLY**  
MARCH 27, 2024

**LANIER & ASSOCIATES**  
CONSULTING ENGINEERS, INC.  
LA: EF-1120 TX: F-2981  
VF-185 LSF-10194817  
NEW ORLEANS • BEAUMONT • CORPUS CHRISTI • HOUSTON • MANDEVILLE

REV	DATE	BY	DESCRIPTION
A	03/27/24	THD	PRELIMINARY-FOR BIDS ONLY

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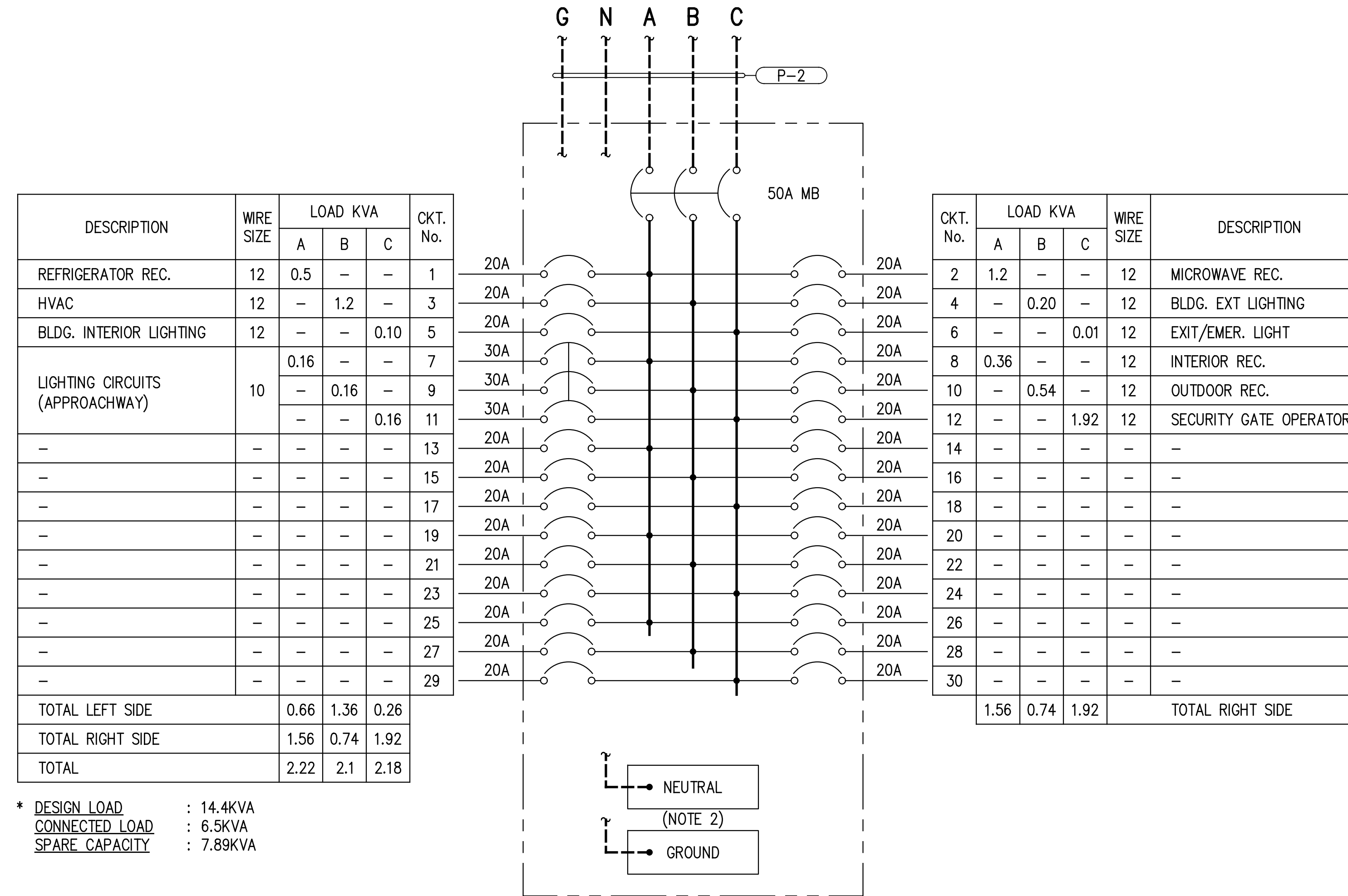
DATE NOV., 2023  
SHT SIZE 22"x34"  
DESIGN AB  
DRAWN KMR  
CHECK JAM  
APPR'D THD  
JOB NO 11832-1

**PORT OF SOUTH LOUISIANA**  
LOUISIANA  
**UNDER DOCK REFURBISHMENT**  
**GUARD SHACK BUILDING**  
**POWER AND CONTROL PLAN**

SHEET NO.  
**E9C**

NOTES

- FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
- CONTRACTOR SHALL BOND THE NEUTRAL AND GROUND BARS ONLY IF THERE IS NO SYSTEM BONDING AT EXISTING TRANSFORMER "T-1". OBJECTIONABLE NEUTRAL CURRENT WILL FLOW ON METAL PARTS IF THE NEUTRAL CONDUCTOR IS CONNECTED BOTH AT THE TRANSFORMER AND AT THE SERVICE PANEL.



\* DESIGN LOAD : 14.4KVA  
 CONNECTED LOAD : 6.5KVA  
 SPARE CAPACITY : 7.89KVA

208/120VAC, 3 $\phi$ , 4W  
 POWER PANEL "PP-1"  
 ONE-LINE DIAGRAM DWG. E3

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DATE	OCT. 2023
SHT SIZE	22"x34"
DESIGN	AB
DRAWN	KMR
CHECK	JAM
APPR'D	THD
JOB NO	11832-1

**PORT OF SOUTH LOUISIANA**  
 LOUISIANA  
 RESERVE  
**UNDER DOCK REFURBISHMENT  
 PANELBOARD SCHEDULE  
 "PP-1"**

SHEET NO.  
**E11**

NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.

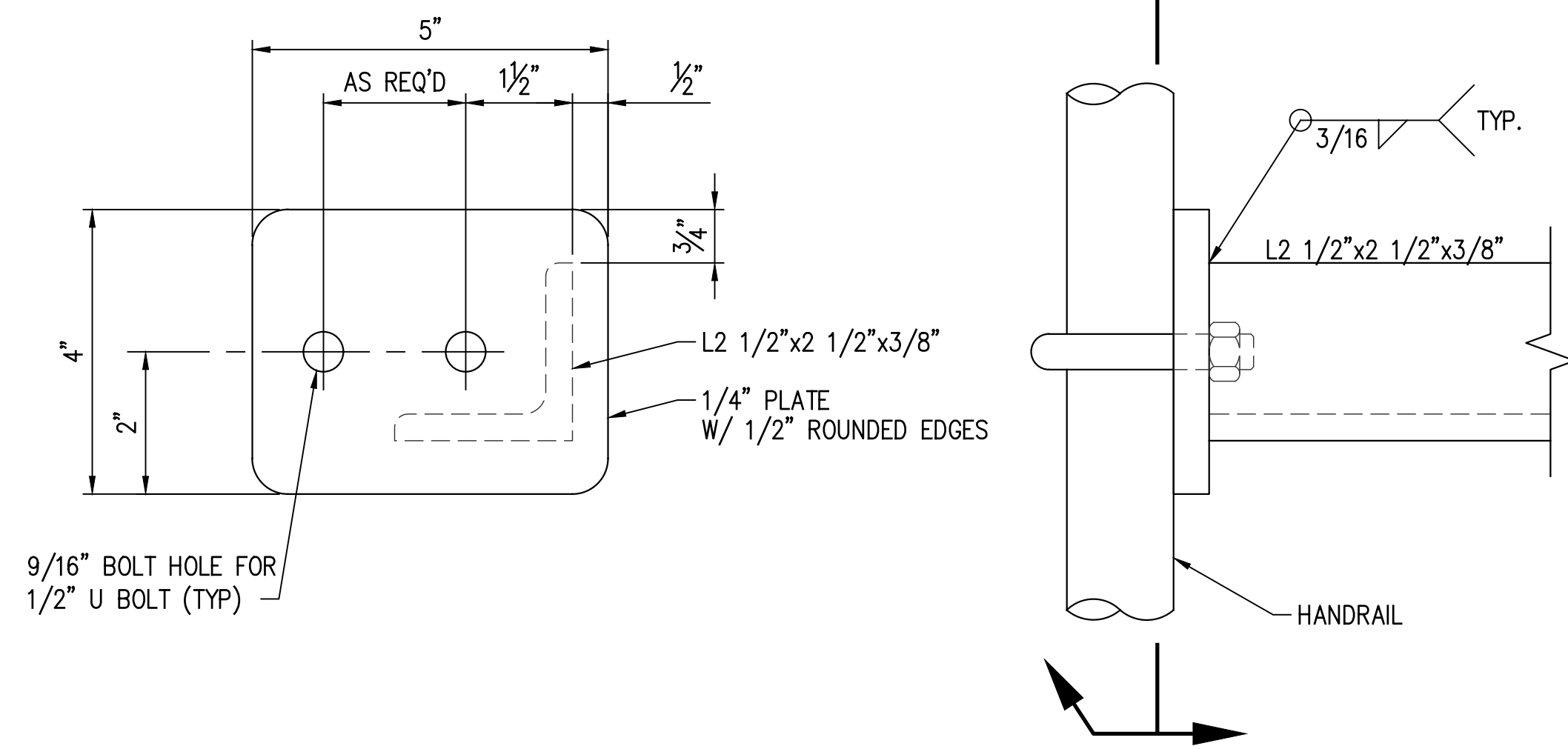
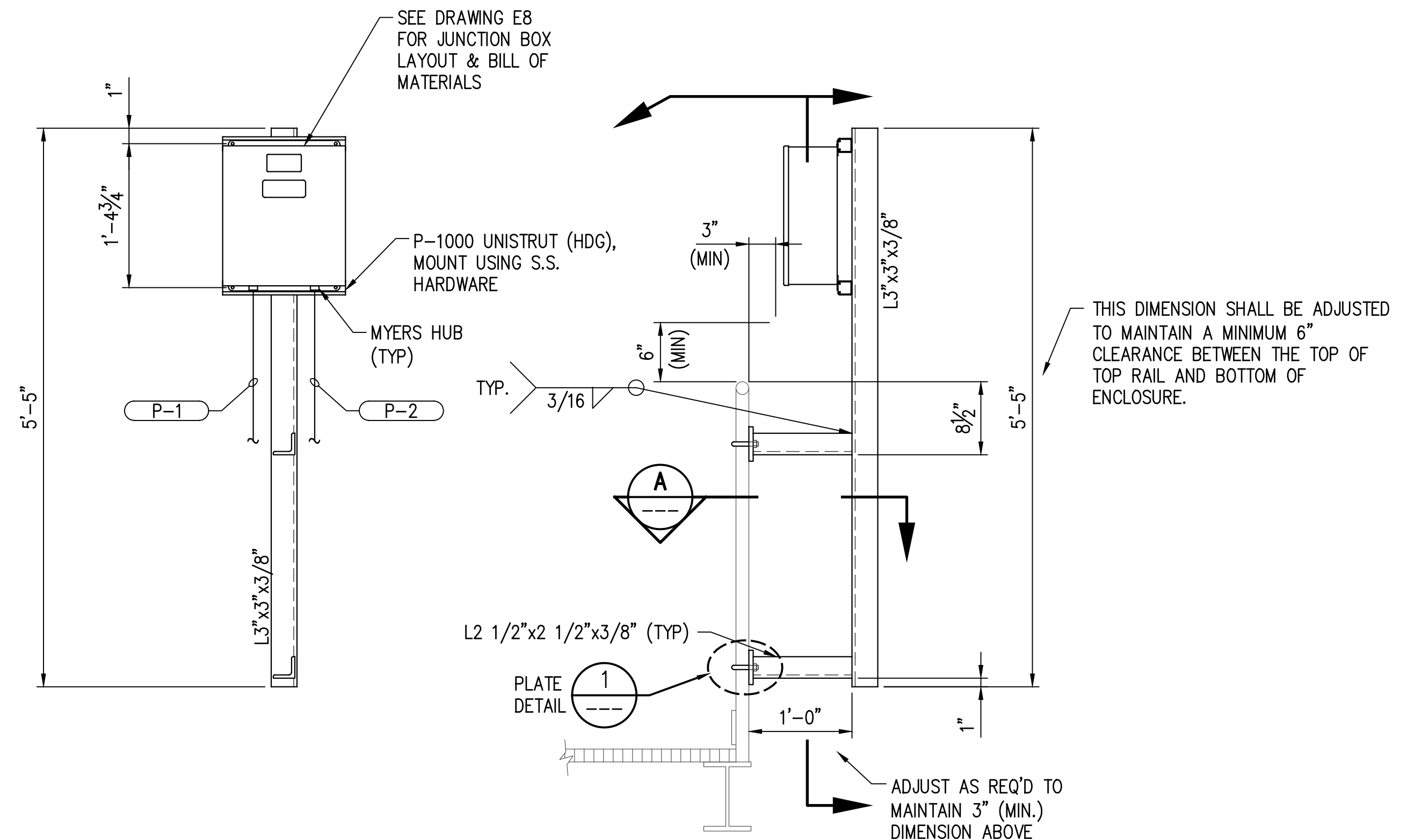


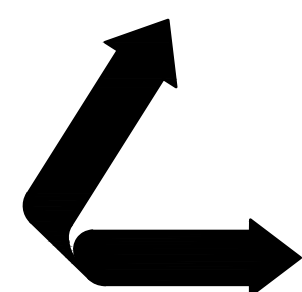
PLATE DETAIL 1  
SCALE: 6"=1'-0"



JUNCTION BOX "JB-1" MOUNTING DETAIL 3  
SCALE: 1"=1'-0" E5B

J:\1000S\11832-1 ADM RESERVE DOCK REFURB\DRAWINGS\ELECT\_INST\11832-E12.DWG

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MARCH 27, 2024



**LANIER & ASSOCIATES**  
CONSULTING ENGINEERS  
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REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
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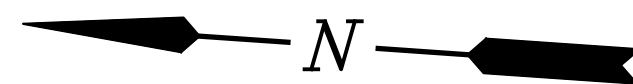
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DATE 12/1/23  
SHT SIZE 22"x34"  
DESIGN AB  
DRAWN WAG  
CHECK AB  
APPR'D THD  
JOB NO 11832-1

RESERVE		PORT OF SOUTH LOUISIANA LOUISIANA	
<b>UNDER DOCK REFURBISHMENT ELECTRICAL POWER &amp; CONTROLS DETAILS</b>			

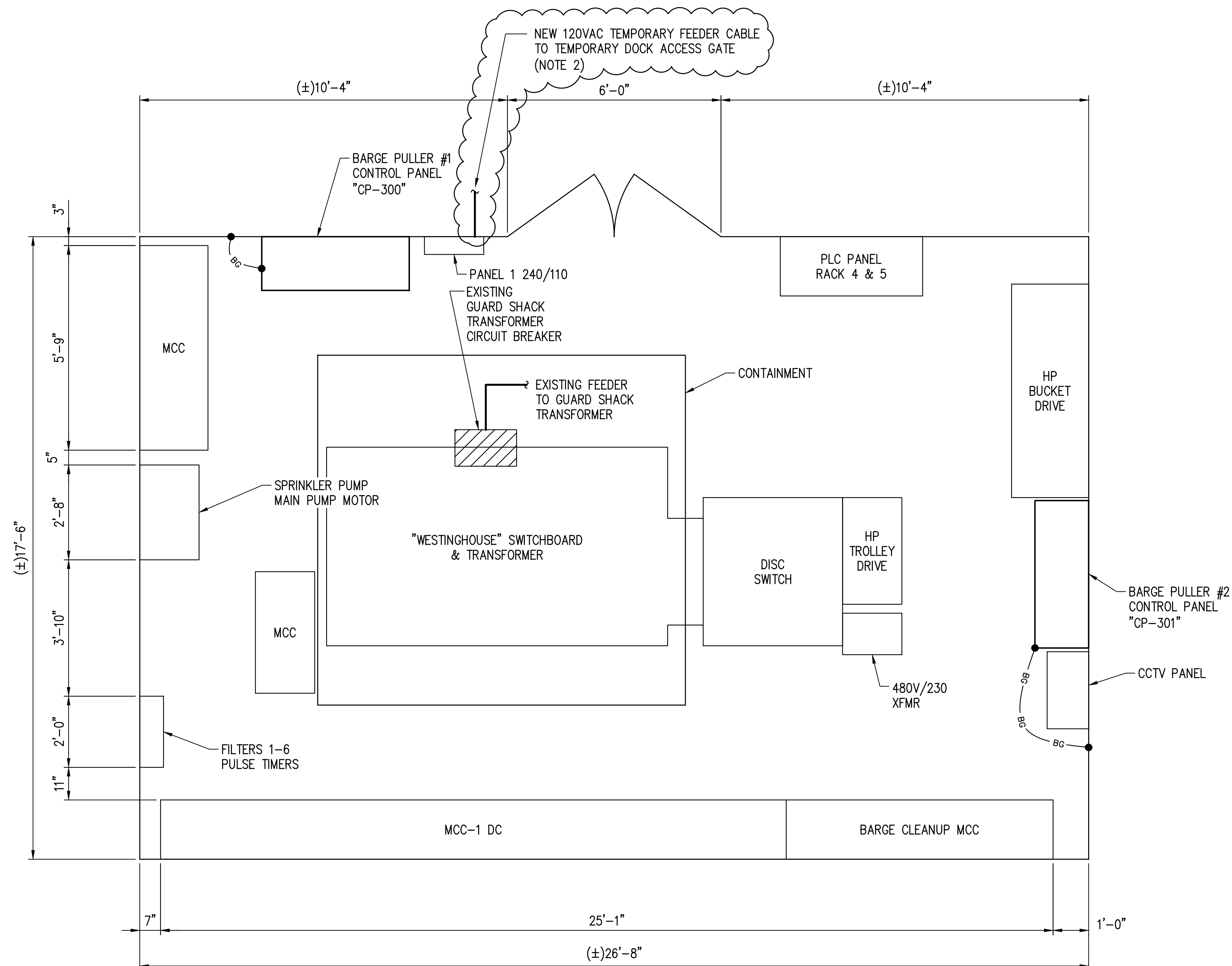
SHEET NO.  
**E12**





NOTES

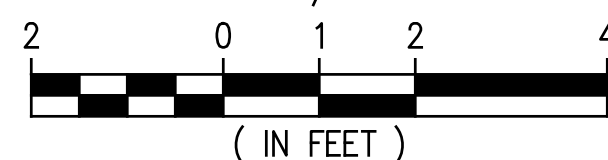
- 1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
- 2. CONTRACTOR SHALL COORDINATE WITH AN ADM REPRESENTATIVE FOR FEEDER ROUTING/INSTALLATION.



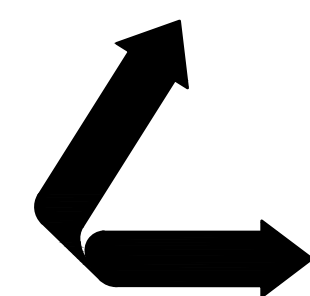
**SCOPE OF WORK  
INCLUDES CLOUDED  
AREAS ONLY**

**DOCK ELECTRICAL BUILDING MCC-10C LAYOUT**

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



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MARCH 27, 2024



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CONSULTING ENGINEERS, INC.

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DATE NOV., 2023  
SHT SIZE 22"x34"  
DESIGN AB  
DRAWN KMR  
CHECK JAM  
APPR'D THD  
JOB NO 11832-1

**PORT OF SOUTH LOUISIANA**  
RESERVE LOUISIANA

**UNDER DOCK REFURBISHMENT  
ELECTRICAL  
DOCK ELECTRICAL BUILDING LAYOUT**

SHEET NO.  
**E13**

NOTES

- 1. FOR GENERAL NOTES AND LEGEND SEE DRAWING E1.
- 2. SEE DEMO DRAWING ED1 FOR ADDITIONAL INFORMATION.

CONDUIT		CONDUCTORS				SERVICE		CABLE PART NUMBER	REMARKS
NO.	SIZE	QTY	SIZE	TYPE	VOLTAGE	FROM	TO		
P-1	-	-	-	-	480V	EXISTING WESTINGHOUSE SWITCHGEAR (DOCK MCC-10C BUILDING)	JUNCTION BOX "JB-1"	-	NOTE 2
P-2	1"	3	#4	#10	THWN 480V	JUNCTION BOX "JB-1"	DISCONNECT SWITCH "DS-1"	-	-
P-3	1"	3	#4	#10	THWN 480V	DISCONNECT SWITCH "DS-1"	TRANSFORMER "T-1"	-	-
P-4	3/4"	3	#6	#8	THWN 208V	TRANSFORMER "T-1"	GUARD SHACK PANEL "PP-1"	-	-
P-5	3/4"	2	#12	#12	THWN 120V	GUARD SHACK PANEL "PP-1" CKT. 12	TO SECURITY GATE OPERATOR	-	-
L-1	3/4"	3	#4	#10	THWN 208V	GUARD SHACK PNL "PP-1" CKTS 7, 9 & 11	LIGHTING CONTACTOR "LC-1"	-	-
L-2	3/4"	3	#4	#10	THWN 208V	LIGHTING CONTACTOR "LC-1"	FITTING "GUAT" TERMINAL BLOCK	-	-
L-3	3/4"	3	#4	#10	THWN 208V	FITTING "GUAT" TERMINAL BLOCK	NORTH SIDE OF APPROACHWAY LIGHTS	-	-
L-4	3/4"	3	#4	#10	THWN 208V	FITTING "GUAT" TERMINAL BLOCK	SOUTH SIDE OF APPROACHWAY LIGHTS	-	-
CA-1	3/4"	3	#14	#14	THWN 120V	LIGHTING CONTACTOR "LC-1"	PHOTOCELL "PC-1"	-	-
CD-1	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE CARD READER	BELDEN 28082A	2 SPARES
CD-2	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE PHOTOCELL	BELDEN 28082A	2 SPARES
CD-3	3/4"	1	8/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE OPEN/CLOSE/STOP CONTROL STATION	BELDEN 28086A	2 SPARES
CD-4	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE OUTDOOR MANUAL SWITCH	BELDEN 28082A	2 SPARES
CD-5	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE MAGNETIC LOCK	BELDEN 28082A	1 SPARE
CD-6	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE LIMIT SWITCH (OPEN)	BELDEN 28082A	1 SPARE
CD-7	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE LIMIT SWITCH (CLOSE)	BELDEN 28082A	1 SPARE
CD-8	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE FIRE DEPARTMENT ACCESS	BELDEN 28082A	2 SPARES
CD-9	3/4"	1	4/C #14	TC	24VDC	SECURITY GATE OPERATOR	SECURITY GATE ROTATING ALARM LAMP	BELDEN 28082A	2 SPARES

**HOLD  
PENDING FINAL  
VENDOR  
INFORMATION**

**PRELIMINARY  
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MARCH 27, 2024

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CONSULTING ENGINEERS, INC.  
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VF-185 LSF-10194817  
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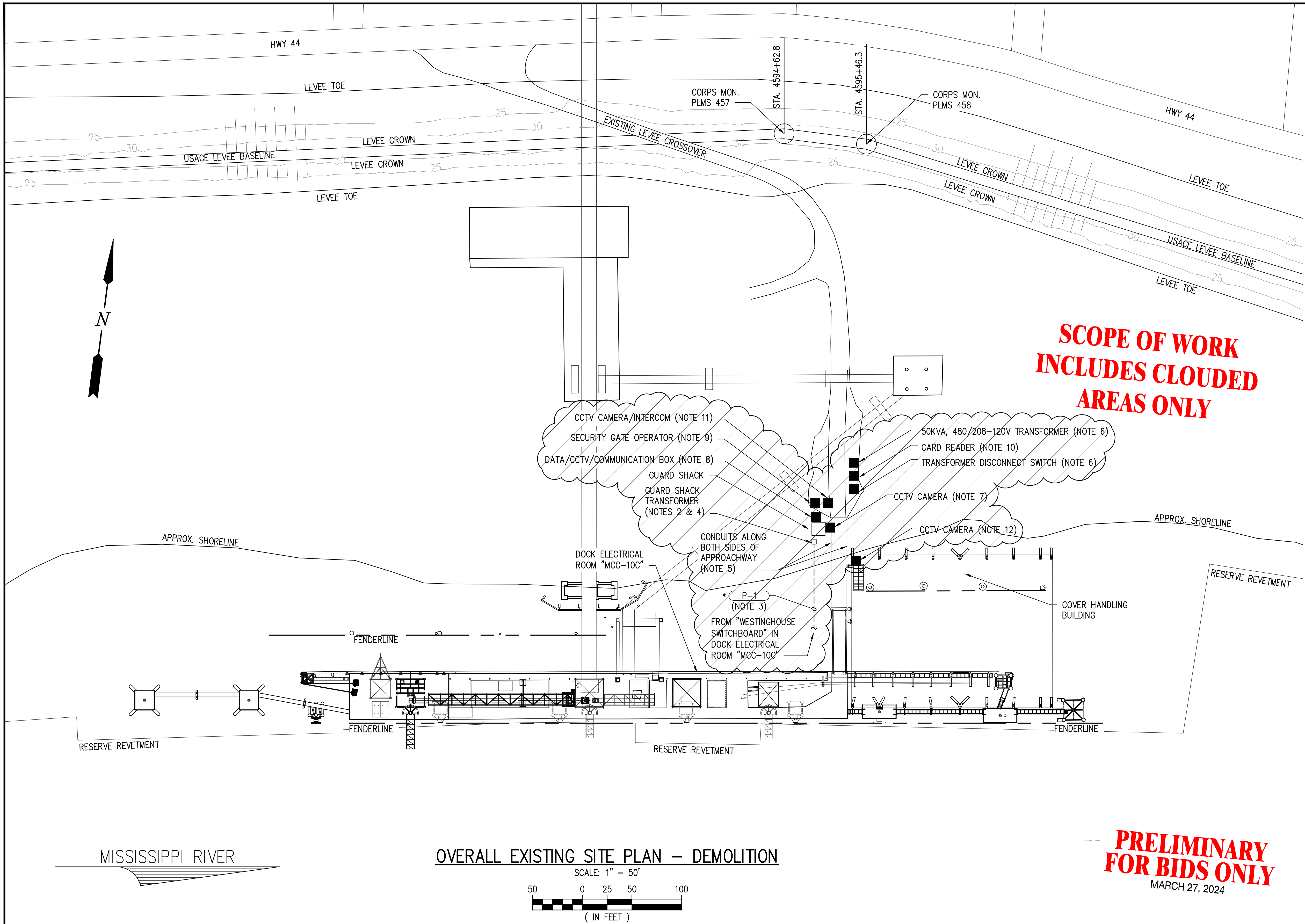
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DATE	OCT. 2023
SHT SIZE	22"x34"
DESIGN	AB
DRAWN	KMR
CHECK	JAM
APPR'D	THD
JOB NO	11832-1

**PORT OF SOUTH LOUISIANA**  
LOUISIANA  
RESERVE

**UNDER DOCK REFURBISHMENT  
ELECTRICAL  
CONDUIT & CABLE SCHEDULE**

SHEET NO.  
**E14**



**SCOPE OF WORK  
INCLUDES CLOUDED  
AREAS ONLY**

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**NOTES**

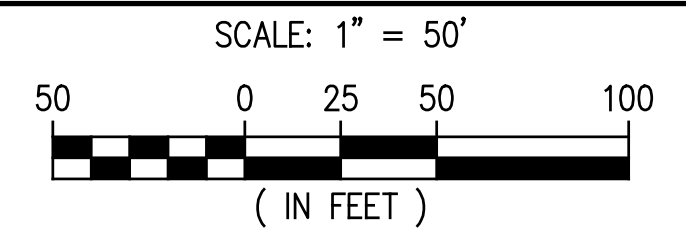
- FOR GENERAL NOTES & LEGEND SEE DRAWING E1.
- CONTRACTOR SHALL DISCONNECT THE GUARD SHACK TRANSFORMER FEEDER CABLE AT THE TRANSFORMER.
- CONTRACTOR SHALL PULL BACK THE ACTUAL GUARD SHACK TRANSFORMER FEEDER CABLE TO THE DOCK AREA, COIL UP, TAG AND SECURE IT. THIS CABLE SHALL BE RE-ROUTED AND RE-TERMINATED AT THE NEW JUNCTION BOX "JB-1". CONTRACTOR SHALL INSPECT AND TEST FEEDER CABLE TO ASSURE THAT IS IN GOOD CONDITION AND CAN BE RE-USED. CONTRACTOR SHALL CONTACT ENGINEER IF CABLE CAN NOT BE RE-USED.
- CONTRACTOR SHALL DISCONNECT AND REMOVE THE GUARD SHACK TRANSFORMER INCLUDING THE ASSOCIATED CONDUIT AND WIRING. THE TRANSFORMER SHALL BE RETURNED TO ADM.
- CONTRACTOR SHALL DISCONNECT AND REMOVE THE CONDUITS AND WIRING ROUTED ALONG BOTH SIDES OF THE APPROACHWAY THAT WILL BE DEMOLISHED. CONTRACTOR SHALL TRACE BACK TO THE SOURCE ALL THE CABLES AND DOCUMENT CABLE TERMINATIONS AT BOTH ENDS PRIOR TO DISCONNECTION OF ANY CABLE AND COMMENCING THE DEMOLITION WORK. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICT.
- CONTRACTOR SHALL DISCONNECT AND REMOVE THE 50KVA, 480/208V TRANSFORMER AND THE ASSOCIATED DISCONNECT SWITCH INCLUDING CONDUIT AND WIRING. THE TRANSFORMER AND THE DISCONNECT SWITCH SHALL BE RETURNED TO ADM.
- CONTRACTOR SHALL DISCONNECT AND REMOVE THE CCTV CAMERA LOCATED AT THE EXTERIOR WALL OF THE GUARD SHACK BUILDING, INCLUDING ALL THE ASSOCIATED ACCESSORIES, CONDUIT AND WIRING. THE CCTV CAMERA AND ACCESSORIES SHALL BE RETURNED TO ADM.
- CONTRACTOR SHALL RELOCATE THE DATA/CCTV/COMMUNICATION BOX TO THE NEW GUARD SHACK PLATFORM. CONTRACTOR SHALL PROCURE AND INSTALL ALL THE ASSOCIATED SUPPORTS, HARDWARE, ETC. EXTEND CONDUIT AND WIRING AS REQUIRED. CONDUIT SHALL BE ROUTED AS PER FIELD CONDITIONS. SEVERAL EQUIPMENT/DEVICES SHALL REMAIN IN OPERATION DURING THE DIFFERENT PHASES OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH AN ADM REPRESENTATIVE PRIOR TO COMMENCING THE WORK.
- CONTRACTOR SHALL DISCONNECT AND REMOVE THE DOCK ACCESS SECURITY GATE AND ALL THE ASSOCIATED EQUIPMENT/DEVICES CONDUITS AND WIRING.
- CONTRACTOR SHALL RELOCATE THE ACTUAL SECURITY GATE CARD READER TO THE TEMPORARY DOCK ACCESS GATE. CONTRACTOR SHALL DOCUMENT CABLE TERMINATIONS AT BOTH ENDS PRIOR TO DISCONNECTING ANY CABLE AND COMMENCING THE DEMOLITION WORK. EXTEND THE ASSOCIATED CONDUIT AND WIRING AS REQUIRED. CONDUIT SHALL BE ROUTED AS PER FIELD CONDITIONS.
- CONTRACTOR SHALL RELOCATE OF THE CAMERA/INTERCOM SYSTEM LOCATED NEXT TO THE SECURITY GATE THAT WILL BE DEMOLISHED TO THE TEMPORARY DOCK ACCESS GATE. CONTRACTOR SHALL DOCUMENT CABLE TERMINATIONS AT BOTH ENDS PRIOR TO DISCONNECTING ANY CABLE AND COMMENCING THE DEMOLITION WORK. EXTEND THE ASSOCIATED CONDUIT AND WIRING AS REQUIRED. CONDUIT SHALL BE ROUTED AS PER FIELD CONDITIONS.
- CONTRACTOR SHALL TEMPORARILY DISCONNECT THE CCTV CAMERA CABLE. THIS CABLE IS CURRENTLY INSTALLED ALONG THE DOWNSTREAM SIDE OF THE APPROACHWAY THAT WILL BE DEMOLISHED. CONTRACTOR SHALL DOCUMENT THE CABLE TERMINATIONS AT BOTH ENDS PRIOR TO DISCONNECTION OF THE CABLE AND COMMENCING THE DEMOLITION WORK. THIS CABLE SHALL BE REPLACED WITH A NEW CABLE OF THE SAME SIZE/TYPE AS THE EXISTING CABLE AND SHALL BE RE-TERMINATED INSIDE THE RELOCATED DATA/CCTV/COMMUNICATION BOX.
- REFER TO THE NEW CONSTRUCTION DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL COORDINATE WITH AN ADM REPRESENTATIVE PRIOR TO COMMENCING THE DEMOLITION WORK.

**LEGEND**

TO BE DEMOLISHED

\* EXISTING CABLE BEING REMOVED/RE-ROUTED

**OVERALL EXISTING SITE PLAN - DEMOLITION**



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**PORT OF SOUTH LOUISIANA**  
RESERVE LOUISIANA

**UNDER DOCK REFURBISHMENT**  
**ELECTRICAL**  
**OVERALL EXISTING SITE PLAN - DEMOLITION**

SHEET NO.

**ED1**