



# ALABAMA PORT AUTHORITY

PORT OF MOBILE

## APM TERMINALS PHASE IV YARD EXPANSION

KAY IVEY, GOVERNOR OF ALABAMA  
JOHN C. DRISCOLL, DIRECTOR



APRIL 2024



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO.

APMT PHASE IV YARD EXPANSION

PROJECT COVER SHEET

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: G1

REV: A

NOTES									<small>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALLY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</small>								
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23-017A	SUBSURFACE UTILITY / FEATURE - PARTIAL PLAN
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22-023-3	PHASE 4 EXPANSION PROJECT SITE MAPPING (SHEET 2 OF 2)

NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24
	REFERENCE DRAWINGS				



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ASPA PROJECT NO: XXXXX - TASK X ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION	
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SHEET 2 OF 2	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: G2 - SHEET 2 OF 2
REVISION: A	

**GENERAL NOTES:**

- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ALABAMA PORT AUTHORITY (APA) PERSONNEL, APMT PERSONNEL AND THE ENGINEER.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS.
- AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT REVIEWS OF THESE CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE AN ON-SITE OFFICE TRAILER FOR THE DURATION OF THE PROJECT. SEE SPECIFICATIONS.
- THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION AND FABRICATION.
- THE CIVIL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND ANY APPLICABLE SPECIFICATIONS.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- THE PROPERTY IS LOCATED IN FLOOD ZONE "AE" ACCORDING TO FEMA FLOOD INSURANCE RATE MAP NO. 01097C0566L DATED JUNE 5, 2020. FLOOD ZONE DETERMINATION MADE FROM GRAPHIC PLOTTING ONLY.
- CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS" ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, MOST CURRENT EDITION, TO PREVENT THE DIVERSION OF SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
- ALL MATERIALS AND WORKMANSHIP WITHIN A STATE OR CITY RIGHT-OF-WAY SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2022 EDITION.
- THE SITE IS LOCATED IN SEC. 38 4S 1W, MOBILE COUNTY, ALABAMA.
- ALL REINFORCED CONCRETE PIPE USED WITHIN THE PROJECT AREA SHALL BE CLASS V WITH RUBBER GASKET, UNLESS INDICATED OTHERWISE.
- UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE, AND ARE BASED ON INFORMATION PROVIDED, AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (1-800-292-8525) (WWW.A1CALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY BY THE CONTRACTOR AND/OR THE LINE PHYSICALLY LOCATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE OTHER WORK OCCURRING ON OR IN THE PROXIMITY OF THE SITE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING THE ACTUAL CONDITIONS AND HOW THEY AFFECT THE REQUIRED WORK PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCY NOTED BETWEEN ACTUAL CONDITIONS AND THOSE DESCRIBED BY THESE DRAWINGS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER. NO ADDITIONAL COST ASSOCIATED WITH THE MODIFICATIONS TO THE SCOPE OF WORK REQUIRED DUE TO INACCURATE EXISTING CONDITIONS AS SHOWN BY THESE DRAWINGS WILL BE CONSIDERED UNLESS SAID CONDITIONS HAVE BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO RECEIVING BIDS.
- PRIOR TO RELOCATION OF THE WASTEWATER TREATMENT SYSTEM, THE NEW WASTEWATER TREATMENT FOUNDATION SHALL BE INSTALLED, POWER POLE INSTALLED, ALL UTILITIES PLUMBED AND BLANKED OFF, ANCHOR BOLTS INSTALLED AND ALL OTHER WORK THAT CAN BE PERFORMED PRIOR TO RELOCATION OF THE EXISTING EQUIPMENT AND UTILITIES TO THE NEW LOCATION. THE RELOCATED WASTEWATER TREATMENT SYSTEM MUST BE BACK IN SERVICE WITHIN 30 DAYS OF SHUTTING DOWN THE CURRENT WASTEWATER TREATMENT SYSTEM.

**SURVEY NOTES:**

- TOPOGRAPHIC SURVEY PERFORMED IN JUNE 2023 AND HYDROGRAPHIC SURVEY PERFORMED IN MARCH 2022.
- HORIZONTAL COORDINATES SHOWN ON DRAWINGS ARE BASED ON THE ALABAMA STATE PLANE COORDINATE SYSTEM, WEST ZONE NAD83 (2011) ESTABLISHED ON SITE USING RTK GPS REFERENCING ALDOT CORS NETWORK.
- ELEVATIONS SHOWN ON DRAWINGS ARE IN FEET AND DECIMALS AND ARE REFERENCED TO NAVD 88 DATUM REFERENCING ALDOT CORS NETWORK.

**DESIGN CRITERIA:**

- PAVEMENT DESIGN CONSIDERED THE FOLLOWING CONTAINER HANDLING EQUIPMENT AND REPETITIONS:
  - \* TAYLOR, THDC-975 "BIG RED" TOP PICK CONTAINER HANDLER
    - 4 FRONT WHEELS AND 2 REAR WHEELS, MAX RATED CAPACITY OF 80 KIPS (3-, 4-, AND 5-HIGH, FIRST ROW LIFT) WITH A TIRE PRESSURE OF 120 PSI. ANNUAL REPETITIONS = 2,738
  - TAYLOR, RS-9968 REACH STACKER CONTAINER HANDLER
    - 4 FRONT WHEELS AND 2 REAR WHEELS, MAX RATED CAPACITY OF 99 KIPS (4 HIGH, FIRST ROW LIFT) WITH A TIRE PRESSURE OF 145 PSI. ANNUAL REPETITIONS = 2,738
  - RTG CRANE - 1 OVER 5 STACKING HEIGHT
    - 16 WHEELS (4 PER LEG), MAX RATED CAPACITY OF 55 TONS, MAX WHEEL LOAD OF APPROXIMATELY 25 TONS WITH A TIRE PRESSURE OF 138 PSI. ANNUAL REPETITIONS = 14,214 (GANTRYING) AND 3,833 (LIFTING).
- \* THE TAYLOR, THDC-975 "BIG RED" TOP PICK GOVERNED THE DESIGN OF THE PAVEMENT.
- STORM DRAINS ARE DESIGNED USING THE 25 YEAR EVENT WITH A TIME OF CONCENTRATION OF FIVE MINUTES. C-VALUES WERE CALCULATED USING 0.98 FOR IMPERVIOUS AREAS.
- STRUCTURAL DESIGN OF DRAINAGE STRUCTURES ARE DESIGNED USING AN AXLE LOAD OF 220,000 POUNDS WHERE THE TOP PICK LOADERS MAY TRAVEL OVER THE STRUCTURES.
- WIND LOADS USED IN DESIGN: (ASCE STANDARD 7)
  - RISK CATEGORY, TABLE 1.5-1, - II (2)
  - BASIC WIND SPEED -----155 MPH
  - WIND EXPOSURE CATEGORY, SECTION 26.7.3, = C
  - WIND IMPORTANCE FACTOR -----1.00
  - FOUNDATIONS ARE DESIGNED BASED ON THE RECOMMENDATIONS IN THE APMT MOBILE PHASE 2 GEOTECHNICAL REPORT PROVIDED BY CB&I AND DATED FEBRUARY, 2016.
- ELECTRICAL DESIGN PER THE 2020 NATIONAL ELECTRICAL CODE.
- FIRE HYDRANTS ARE PLACED IN THE YARD IN CONJUNCTION WITH THE HIGH MAST LIGHT POLES.

**CONCRETE GENERAL NOTES**

- ALL CAST-IN-PLACE CONCRETE, WITH EXCEPTION OF RCC PAVING AND UNDERGROUND ELECTRICAL DUCTBANKS, SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS. CAST IN PLACE CONCRETE FOR UNDERGROUND ELECTRICAL DUCTBANKS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ALL LOADS (INCLUDING VEHICULAR AND BACKFILL) SHALL BE KEPT AWAY FROM NEW CONCRETE FOR A MINIMUM OF 7 DAYS.
- REINFORCING BARS SHALL BE DEFORMED AND SHALL CONFORM TO ASTM A615, GRADE 60.
- EMBEDDED STEEL MATERIAL SHALL CONFORM TO ASTM A36. ALL EMBEDDED STEEL ITEMS WILL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND ASTM A-143 UNLESS NOTED OTHERWISE.
- GROUT MATERIAL UNDERNEATH ALL STRUCTURAL COLUMNS, EQUIPMENT BASES, ETC SHALL BE PREPACKAGED, CEMENTITIOUS, NON-SHRINK, NON-METALLIC GROUT. GROUT MATERIAL THAT WILL BE SUBJECTED TO DYNAMIC LOADS, SUCH AS UNDERNEATH LARGE ROTATING EQUIPMENT, SHALL BE AN EPOXY BASED MATERIAL.
- EPOXY MATERIAL FOR DRILLED AND GROUTED REBAR AND ANCHORS SHALL BE AS CALLED FOR ON THE DRAWINGS (HILTI) OR ENGINEERING APPROVED EQUAL.
- COORDINATE CONCRETE WORK WITH PIPING, ELECTRICAL AND MECHANICAL WORK PRIOR TO PLACING CONCRETE. EQUIPMENT ATTACHMENT DETAILS AND BOLTING REQUIREMENTS INDICATED ON DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY INTERFACE BETWEEN ALL EQUIPMENT AND CONCRETE FOUNDATIONS PRIOR TO PLACEMENT OF CONCRETE. ANY DISCREPANCIES BETWEEN THE DETAILS INDICATED ON THE DRAWINGS AND THE ACTUAL REQUIRED INTERFACE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY REWORK REQUIRED DUE TO INADEQUATE COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXPOSED EDGES OF CONCRETE SHALL HAVE A 1" CHAMFER.
- CONCRETE COVER FOR REINFORCING IN CAST-IN-PLACE CONCRETE WORK SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAIL DRAWINGS:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH - 3 INCHES
  - CONCRETE EXPOSED TO WEATHER - 2 INCHES
  - ALL OTHER REINFORCING - 2 INCHES (MINIMUM)
- SPLICES IN REINFORCING BARS SHALL BE CLASS "B" SPLICES AS DEFINED BY ACI 318 UNLESS NOTED OTHERWISE ON THE DRAWING.
- CONCRETE FLOOR SLABS, DOCK SURFACE, ROADWAYS AND AREA PAVING SHALL HAVE A BROOM FINISH. VERTICAL WALLS SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
- PROVIDE CORNER BARS FOR ALL HORIZONTAL WALL REINFORCEMENT STEEL WITH A MINIMUM LAP OF 36 BAR DIAMETERS.
- CORNER BARS SHALL BE REQUIRED AT ALL REENTRANT CORNER INTERSECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. THESE BARS SHALL BE #5 WITH A LENGTH OF 4'-0" PLACED AT 45° TO THE CORNER.
- AT LOCATIONS WHERE NEW CONCRETE IS TO BE PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEAN AND FREE OF LAITANCE AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH. PRIOR TO PLACING THE NEW CONCRETE, AN EPOXY BONDING AGENT SHALL BE APPLIED TO THE CLEAN, ROUGHENED SURFACE. EPOXY BONDING AGENT SHALL BE "SIKA HI-MOD 32" OR APPROVED EQUAL.

**STRUCTURAL STEEL GENERAL NOTES**

**REFERENCE SPECIFICATIONS**

- STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" (1989) AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (1992).
- HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS OR A490 BOLTS" (1994).
- ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD D1.1, LATEST EDITION.

**MATERIALS**

- STRUCTURAL STEEL "W", "WT" AND "S" SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. ALL CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
- HIGH STRENGTH BOLTS, NUTS AND HARDENED WASHERS SHALL CONFORM TO ASTM A325, ASTM A563 DH, AND ASTM F436 RESPECTIVELY. MACHINE BOLTS AND NUTS SHALL CONFORM TO ASTM A307, AND PLAIN WASHERS SHALL CONFORM TO ANSI B18.22.1. BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED.
- WELDING ELECTRODES USED FOR FIELD CONNECTIONS SHALL CONFORM TO AWS A5.1, CLASS E70XX UNLESS NOTED OTHERWISE ON THE DRAWINGS. WELDING ELECTRODES USED FOR SHOP CONNECTIONS SHALL CONFORM TO AWS A5.1 WITH A MINIMUM ELECTRODE TENSILE STRENGTH OF 70 KSI, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- GRATING SHALL BE WELDED STEEL BAR TYPE WITH SERRATED 1¼ INCH BY ¾ INCH BEARING BARS SPACED AT 1½ INCH CENTER TO CENTER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CROSS BARS SHALL BE SPACED AT 4 INCHES CENTER TO CENTER. ALL BEARING BARS AND CROSS BARS SHALL BE WELDING QUALITY MILD CARBON STEEL AND SHALL CONFORM TO ASTM A1011.
- ALL STRUCTURAL STEEL, MISCELLANEOUS STEEL, HANDRAIL AND LADDERS SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
- GRATING AND CHECKERED PLATE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH APPLICABLE PROVISIONS OF ASTM A123, A143, A384 AND A385. ALL DAMAGED HOT-DIP GALVANIZED AREAS SHALL BE COATED WITH ZRC COLD GALVANIZING COMPOUND OR EQUAL. SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SHOP WELDED CONNECTIONS SHALL BE CONTINUOUSLY SEAL WELDED WITH A MINIMUM ¼ INCH FILLET WELD IN ACCORDANCE WITH ASTM A385.

**FABRICATION AND ERECTION**

- NO TEMPORARY ERECTION BOLTS OTHER THAN HIGH STRENGTH BOLTS SHALL BE USED DURING ERECTION OF THE MEMBERS REQUIRING HIGH STRENGTH BOLTS.
- WHEN CONNECTIONS REQUIRE FIELD PREPARATION OF BOLT HOLES, THE HOLES SHALL BE DRILLED OR PUNCHED, AND THE DIAMETER OF THE BOLT HOLES SHALL BE ¼ INCH GREATER THAN THE NOMINAL BOLT DIAMETER.
- FIELD CORRECTING OF FABRICATED STEEL BY GAS CUTTING SHALL NOT BE PERMITTED ON MAJOR STRUCTURAL FRAMING MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- FILLET WELD SIZES, IF NOT CALLED OUT ON THE DRAWINGS, SHALL BE ¾ INCH MINIMUM UNLESS TABLE J2.4 OF AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" REQUIRES A LARGER SIZE.
- THE CONTRACTOR SHALL NOT CUT OR ALTER STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER.
- ERECTOR SHALL PROVIDE ALL TEMPORARY SHORING AND BRACING NEEDED FOR STABILITY UNTIL STRUCTURE IS COMPLETE.
- SURFACES THAT HAVE BEEN DAMAGED BY WELDING, CUTTING, BURNING, SHEARING OR OTHER DAMAGE INCURRED DURING TRANSIT OR ERECTION SHALL BE REPAIRED TO PROVIDE A FINISH IN ACCORDANCE WITH SPECIFICATIONS.

**CONNECTIONS**

- UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, SHOP CONNECTIONS MAY BE ASSEMBLED BY EITHER BOLTING OR WELDING.
- BOLTED CONNECTIONS FOR PRIMARY STRUCTURAL MEMBERS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 UNLESS NOTED OTHERWISE ON THE DRAWINGS. HIGH STRENGTH BOLTED CONNECTIONS SHALL BE CLEARLY INDICATED ON THE ERECTION DRAWINGS.
- BOLTED CONNECTIONS FOR SECONDARY STRUCTURAL MEMBERS (PURLINS, GIRTS, STAIR FRAMING, STAIR BRACING, TOE PLATE, HANDRAIL, LADDERS, ETC) SHALL BE BOLTED WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE EXCEPT FOR VERTICAL BRACES, TRUSSES, MOMENT CONNECTIONS, HANGERS, DIRECT TENSION CONNECTIONS AND VIBRATORY STRUCTURES, WHICH SHALL BE SLIP CRITICAL CLASS A, AS NOTED ON THE DRAWINGS.
- HIGH STRENGTH BOLT SIZES SHALL BE ¾ INCH DIAMETER (UNO) EXCEPT THAT TOE PLATES, HANDRAIL AND LADDERS SHALL BE BOLTED WITH ½ INCH DIAMETER BOLTS.
- THICKNESS OF GUSSET AND STIFFENER PLATES, IF NOT CALLED FOR ON THE DRAWINGS, SHALL BE ¾ INCH MINIMUM.
- GRATING ANCHORS SHALL BE G1 G-CLIPS WITH A MECHANICALLY GALVANIZED FINISH AS MANUFACTURED BY:

GRATING FASTENERS, INC.  
PO BOX 6438  
NEW ORLEANS, LA 70174

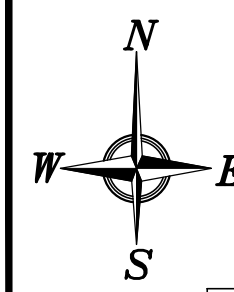


ASPA PROJECT No:11261 - TASK 1 ASPA DRAWING No.

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DRAWN: RST	CK'D: MED	APPD: RSG	DATE: 04/04/22	SCALE: NONE
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APMT PHASE IV YARD EXPANSION	
PROJECT GENERAL NOTES	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: G3
REV: A	



CURVE	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD DIST.
C-1	449.28'	228.27'	29°-06'-41"	S-57°-13'-47"-W	225.83'

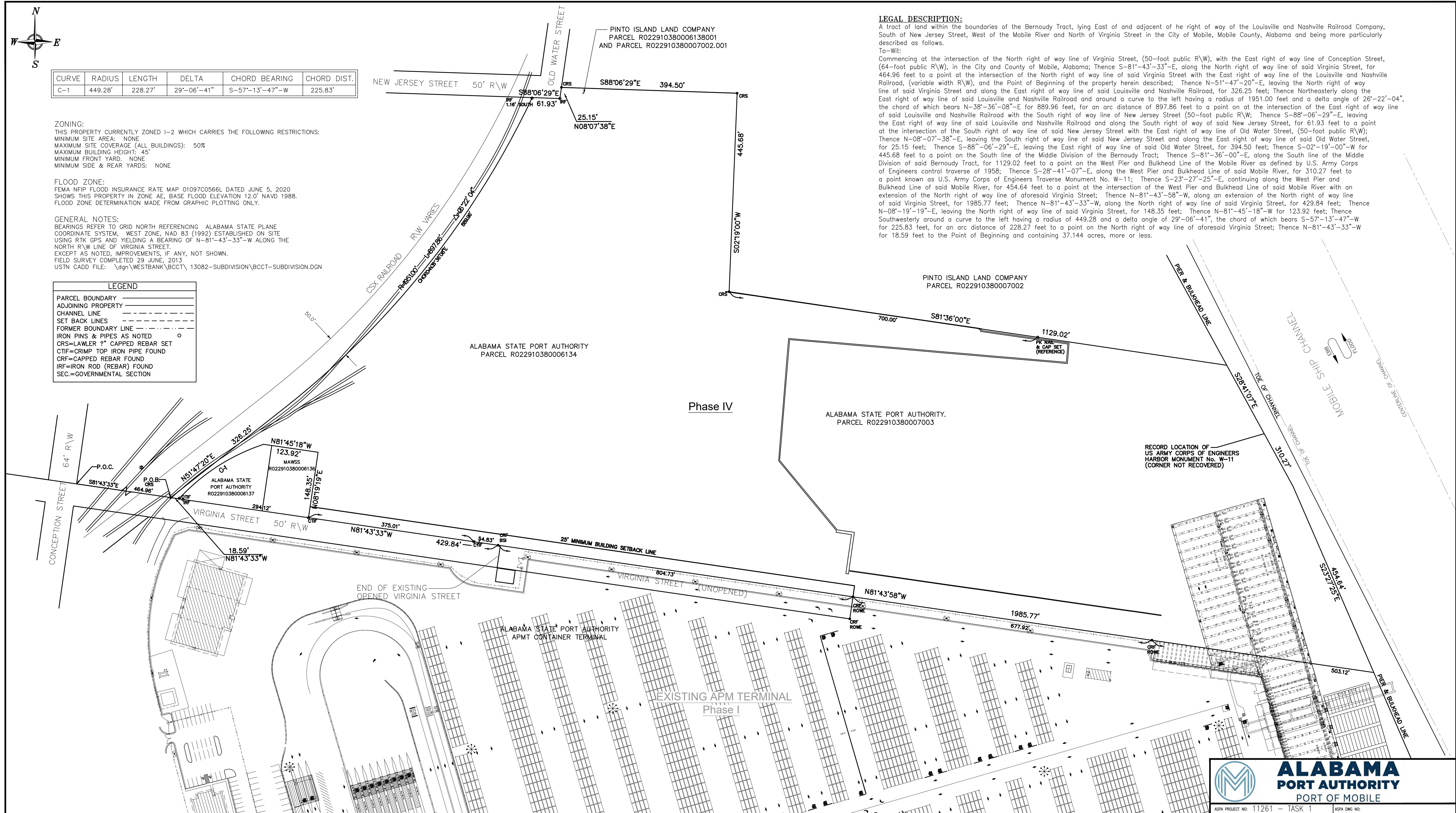
**ZONING:**  
 THIS PROPERTY CURRENTLY ZONED I-2 WHICH CARRIES THE FOLLOWING RESTRICTIONS:  
 MINIMUM SITE AREA: NONE  
 MAXIMUM SITE COVERAGE (ALL BUILDINGS): 50%  
 MAXIMUM BUILDING HEIGHT: 45'  
 MINIMUM FRONT YARD: NONE  
 MINIMUM SIDE & REAR YARDS: NONE

**FLOOD ZONE:**  
 FEMA NFIP FLOOD INSURANCE RATE MAP 01097C0566L DATED JUNE 5, 2020  
 SHOWS THIS PROPERTY IN ZONE AE, BASE FLOOD ELEVATION 12.0' NAVD 1988.  
 FLOOD ZONE DETERMINATION MADE FROM GRAPHIC PLOTTING ONLY.

**GENERAL NOTES:**  
 BEARINGS REFER TO GRID NORTH REFERENCING ALABAMA STATE PLANE  
 COORDINATE SYSTEM, WEST ZONE, NAD 83 (1992) ESTABLISHED ON SITE  
 USING RTK GPS AND YIELDING A BEARING OF N-81°-43'-33"-W ALONG THE  
 NORTH R\W LINE OF VIRGINIA STREET.  
 EXCEPT AS NOTED, IMPROVEMENTS, IF ANY, NOT SHOWN.  
 FIELD SURVEY COMPLETED 29 JUNE, 2013  
 USTN CADD FILE: \\sgn\WESTBANK\BCCT\ 13082-SUBDIVISION\BCCT-SUBDIVISION.DGN

LEGEND	
Parcel Boundary	—
Adjoining Property	---
Channel Line	- - - -
Set Back Lines	---
Former Boundary Line	- - - -
Iron Pins & Pipes as Noted	○
CRS=LAWLER ?" CAPPED REBAR SET	○
CTIF=CRIMP TOP IRON PIPE FOUND	○
CRF=CAPPED REBAR FOUND	○
IRF=IRON ROD (REBAR) FOUND	○
SEC.=GOVERNMENTAL SECTION	○

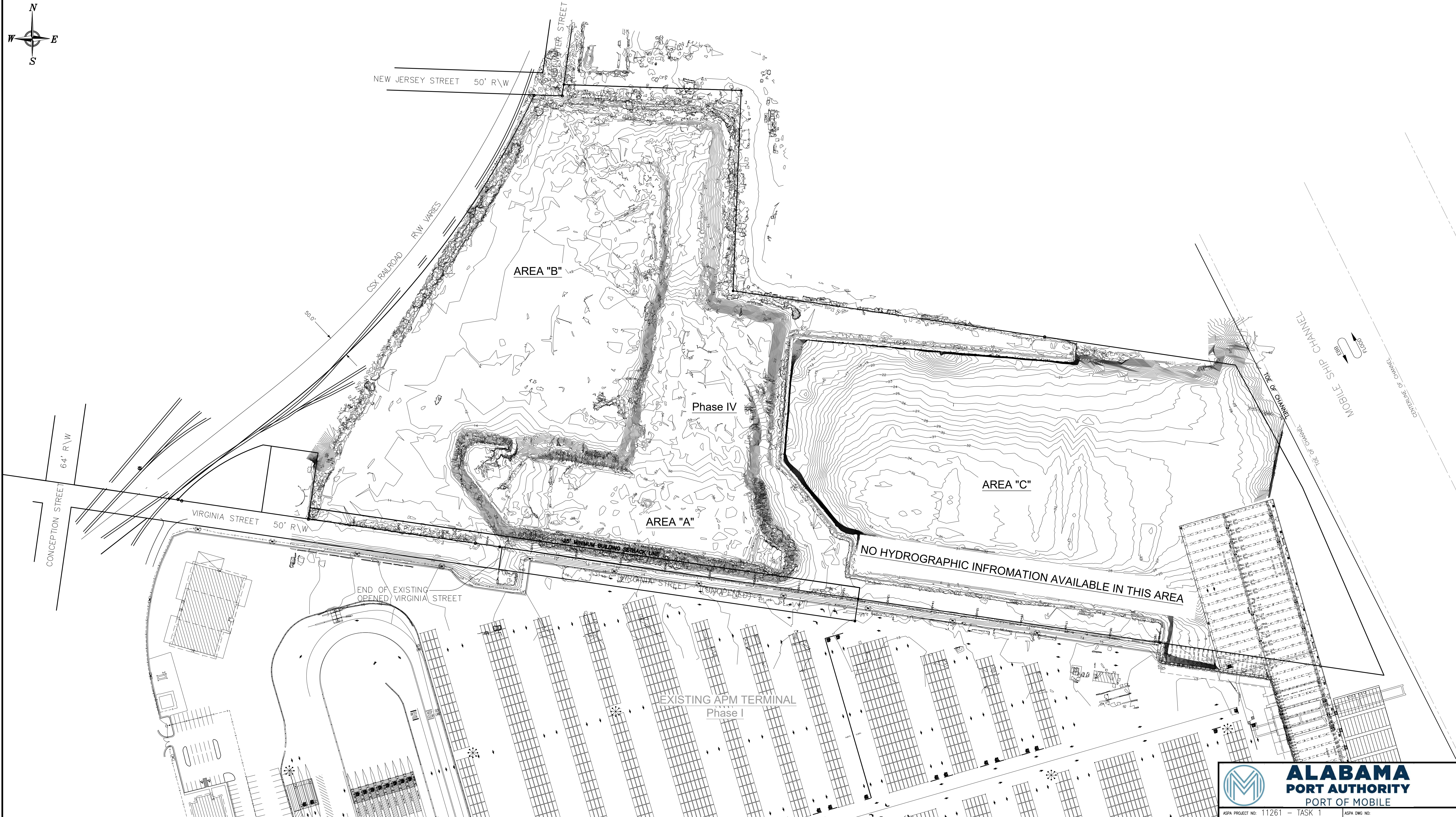
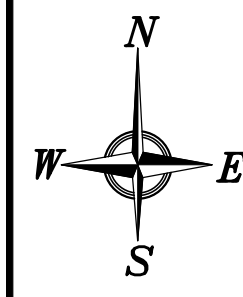
**LEGAL DESCRIPTION:**  
 A tract of land within the boundaries of the Bernoudy Tract, lying East of and adjacent to the right of way of the Louisville and Nashville Railroad Company, South of New Jersey Street, West of the Mobile River and North of Virginia Street in the City of Mobile, Mobile County, Alabama and being more particularly described as follows:  
 To-Wit:  
 Commencing at the intersection of the North right of way line of Virginia Street, (50-foot public R\W), with the East right of way line of Conception Street, (64-foot public R\W), in the City and County of Mobile, Alabama; Thence S-81°-43'-33"-E, along the North right of way line of said Virginia Street, for 464.96 feet to a point at the intersection of the North right of way line of said Virginia Street with the East right of way line of the Louisville and Nashville Railroad, (variable width R\W), and the Point of Beginning of the property herein described; Thence N-51°-47'-20"-E, leaving the North right of way line of said Virginia Street and along the East right of way line of said Louisville and Nashville Railroad, for 326.25 feet; Thence Northeastly along the East right of way line of said Louisville and Nashville Railroad and around a curve to the left having a radius of 1951.00 feet and a delta angle of 26°-22'-04", the chord of which bears N-38°-36'-08"-E for 889.96 feet, for an arc distance of 897.86 feet to a point on the intersection of the East right of way line of said Louisville and Nashville Railroad with the South right of way line of New Jersey Street (50-foot public R\W); Thence S-88°-06'-29"-E, leaving the East right of way line of said Louisville and Nashville Railroad and along the South right of way line of said New Jersey Street, for 61.93 feet to a point at the intersection of the South right of way line of said New Jersey Street with the East right of way line of Old Water Street, (50-foot public R\W); Thence N-08°-07'-38"-E, leaving the South right of way line of said New Jersey Street and along the East right of way line of said Old Water Street, for 25.15 feet; Thence S-88°-06'-29"-E, leaving the East right of way line of said Old Water Street, for 394.50 feet; Thence S-02°-19'-00"-W for 445.68 feet to a point on the South line of the Middle Division of the Bernoudy Tract; Thence S-81°-36'-00"-E, along the South line of the Middle Division of said Bernoudy Tract, for 1129.02 feet to a point on the West Pier and Bulkhead Line of the Mobile River as defined by U.S. Army Corps of Engineers control traverse of 1958; Thence S-28°-41'-07"-E, along the West Pier and Bulkhead Line of said Mobile River, for 310.27 feet to a point known as U.S. Army Corps of Engineers Traverse Monument No. W-11; Thence S-23°-27'-25"-E, continuing along the West Pier and Bulkhead Line of said Mobile River, for 454.64 feet to a point at the intersection of the West Pier and Bulkhead Line of said Mobile River with an extension of the North right of way line of aforesaid Virginia Street; Thence N-81°-43'-58"-W, along an extension of the North right of way line of said Virginia Street, for 1985.77 feet; Thence N-81°-43'-33"-W, along the North right of way line of said Virginia Street, for 429.84 feet; Thence N-08°-19'-19"-E, leaving the North right of way line of said Virginia Street, for 148.35 feet; Thence N-81°-45'-18"-W for 123.92 feet; Thence Southwesterly around a curve to the left having a radius of 449.28 and a delta angle of 29°-06'-41", the chord of which bears S-57°-13'-47"-W for 225.83 feet, for an arc distance of 228.27 feet to a point on the North right of way line of aforesaid Virginia Street; Thence N-81°-43'-33"-W for 18.59 feet to the Point of Beginning and containing 37.144 acres, more or less.



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ASPA PROJECT NO: 11261 - TASK 1	ASPA DWG NO:
APMT PHASE IV YARD EXPANSION	
BOUNDARY SURVEY & LEGAL DESCRIPTION	
EXISTING SITE PLAN	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: G4
REV: A	

NO.	REVISION	DATE	APPD	CK'D	RST	MED	RSG
A	ISSUED FOR BID	04/05/24					
	REFERENCE DRAWINGS						



**ALABAMA PORT AUTHORITY**  
 PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

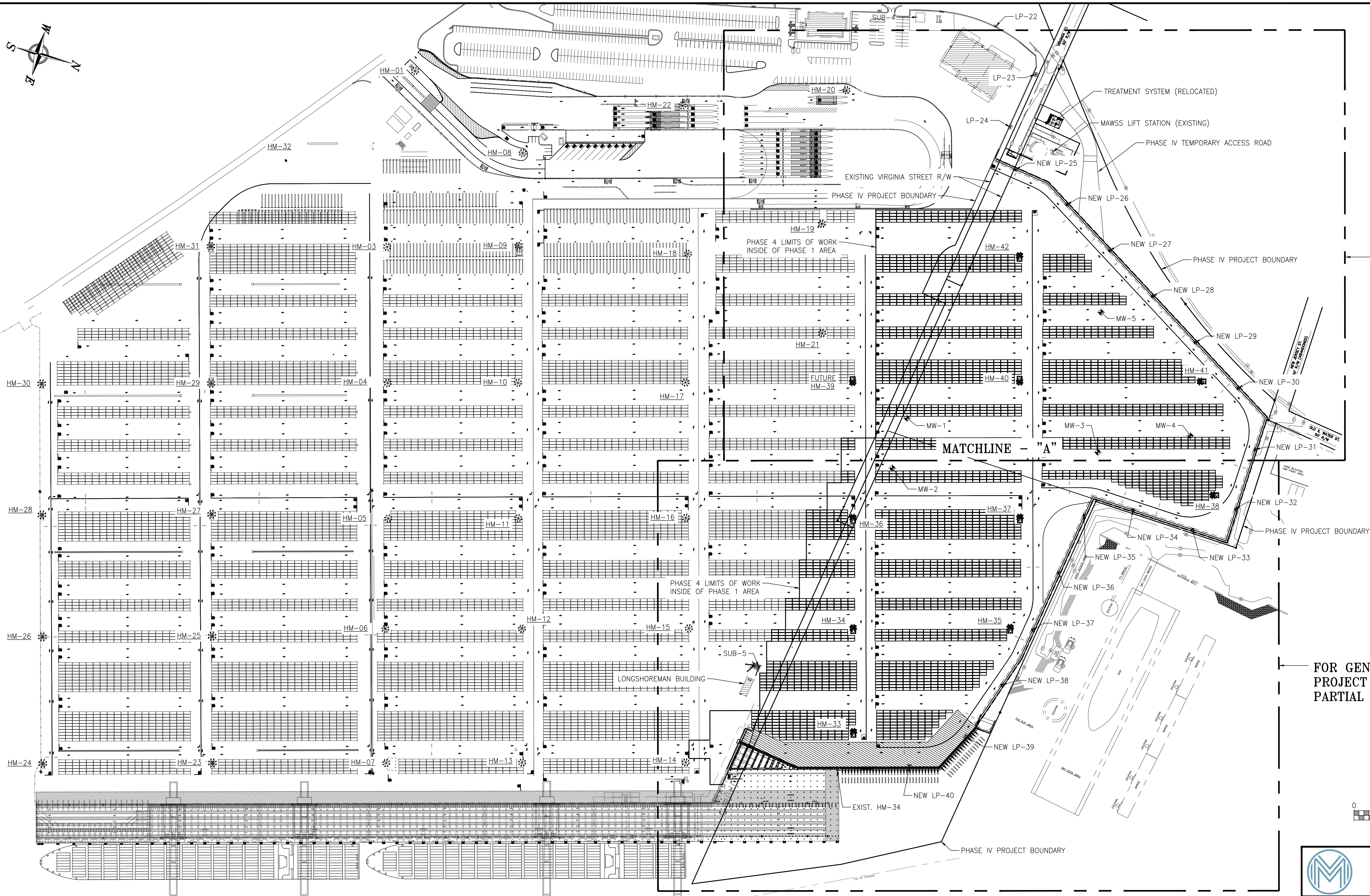
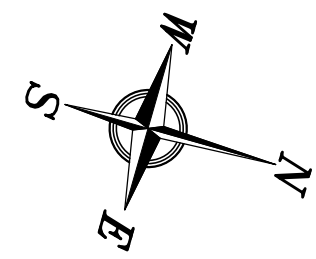


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APMT PHASE IV YARD EXPANSION  
 TOPOGRAPHIC & HYDROGRAPHIC SURVEY  
 EXISTING SITE PLAN

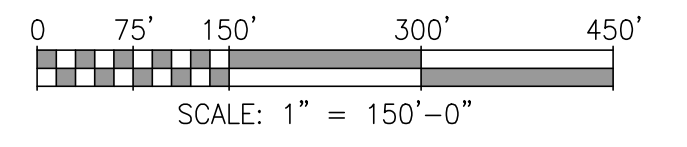
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G5 REV: A



FOR GENERAL SITE / PROJECT LIMITS PARTIAL PLAN SEE DWG G7

FOR GENERAL SITE / PROJECT LIMITS PARTIAL PLAN SEE DWG G8



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

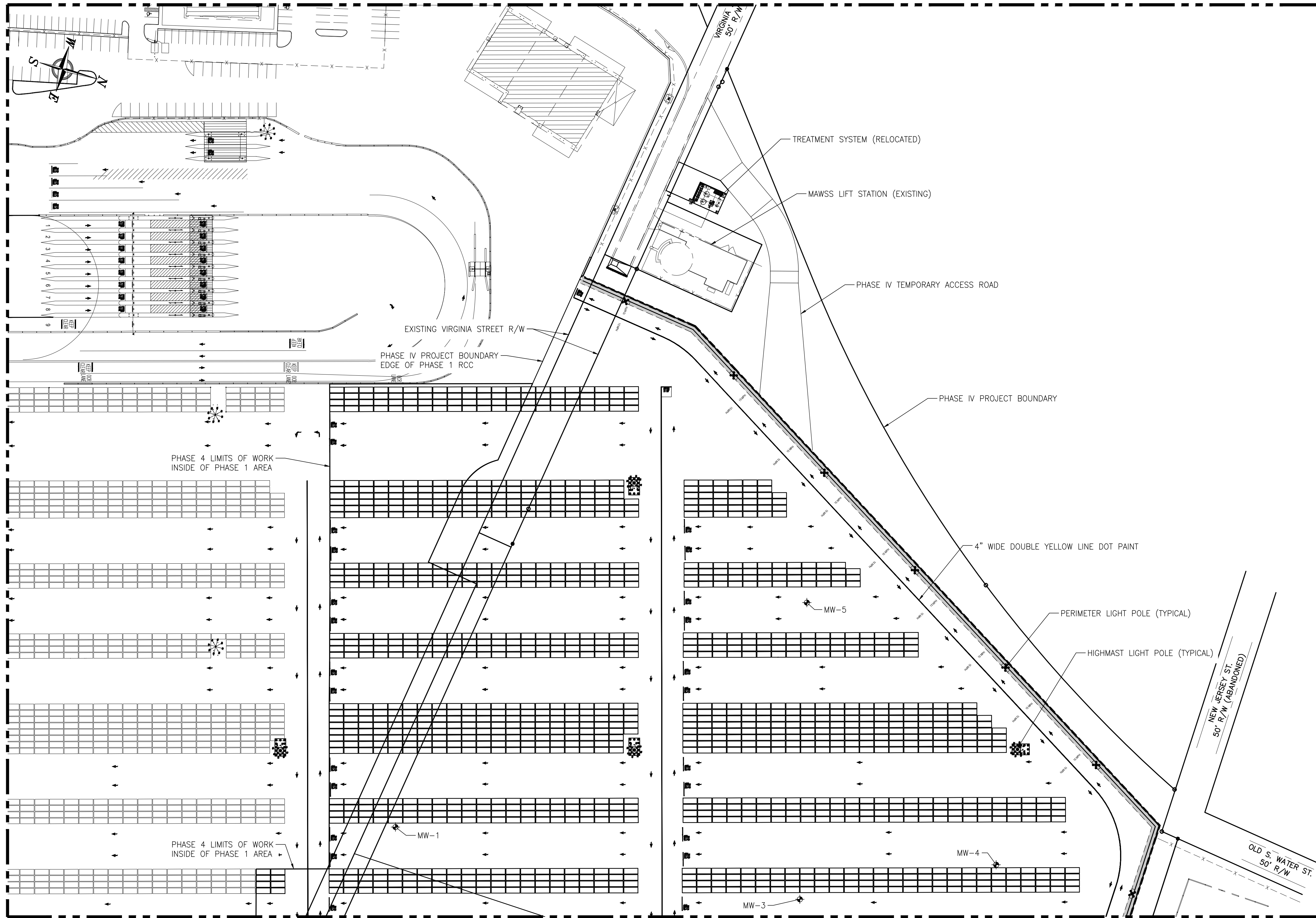
- SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	WMB	MED	RSG

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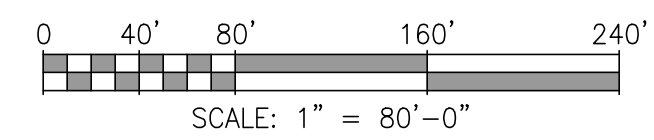
DATE: 08/25/23 SCALE: 1"=150'

APMT PHASE IV YARD EXPANSION	
GENERAL SITE / PROJECT LIMITS	
OVERALL PLAN	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: G6
REV: A	



MONITORING WELL POINT COORDINATE TABLE		
POINT NO. (SEE PLAN)	NORTHING	EASTING
MW-1	N.244219.06	E.1799139.53
MW-2	N.244218.30	E.1799296.73
MW-3	N.244801.29	E.1799079.44
MW-4	N.245056.49	E.1798954.91
MW-5	N.244694.14	E.1798670.22

LEGEND:	
SYMBOL:	DESCRIPTION:
	HIGHMAST LIGHT POLE
	PERIMETER LIGHT POLE
	MESA RETAINING WALL W/ STRUCTURAL GEOGRID
	K-RAIL
	MONITORING WELL



MATCHLINE - "A" SEE DWG. G8



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

**NOTES**

1. SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	WMB	MED	RSG

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FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G7 SCALE: AS NOTED

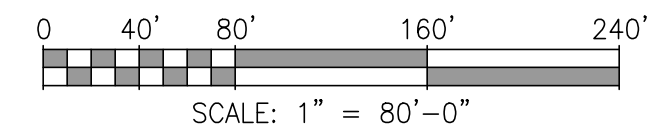
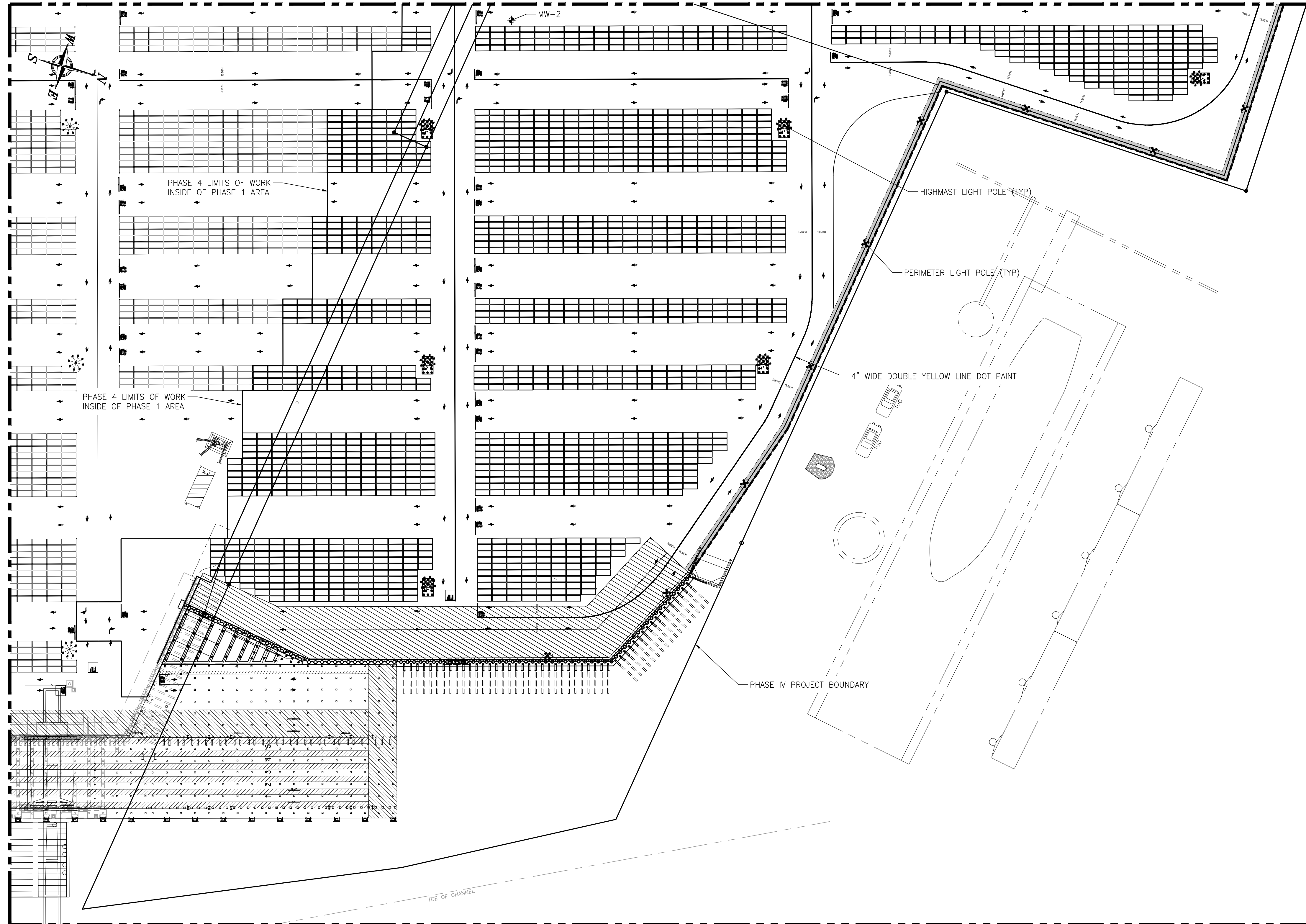
APMT PHASE IV YARD EXPANSION  
 GENERAL SITE / PROJECT LIMITS  
 PARTIAL PLAN (SHEET 1 OF 2)

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G7 REVISION: A



MATCHLINE - "A" SEE DWG. G7




ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

1. SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

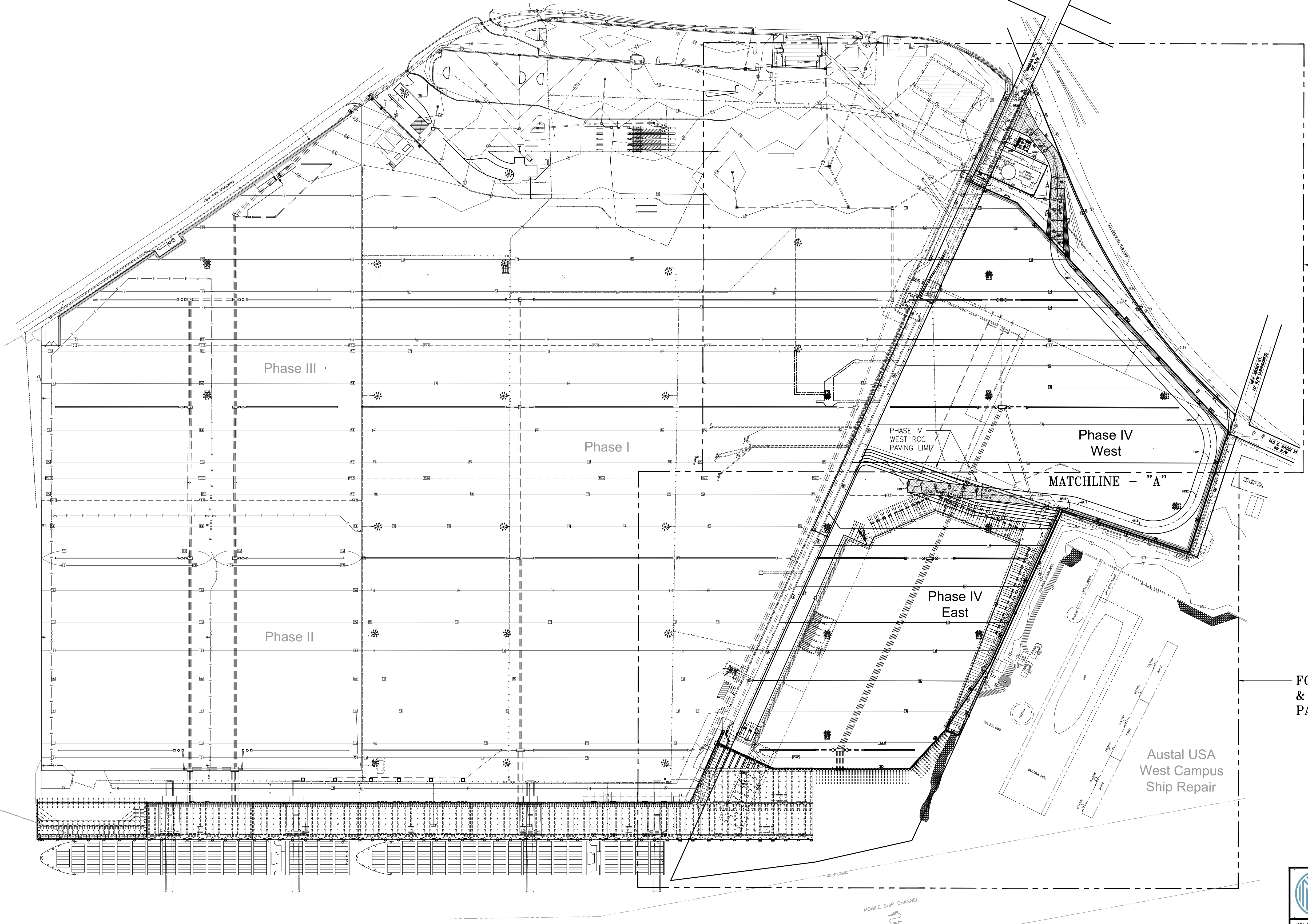
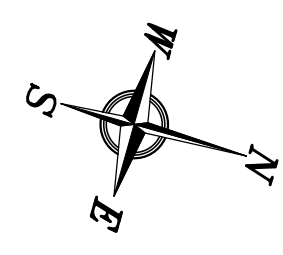


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APMT PHASE IV YARD EXPANSION  
 GENERAL SITE / PROJECT LIMITS  
 PARTIAL PLAN - (SHEET 2 OF 2)

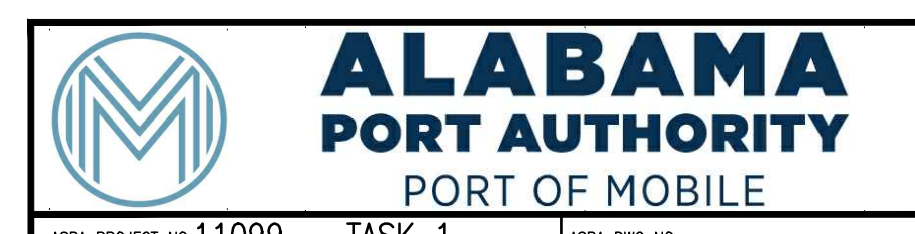
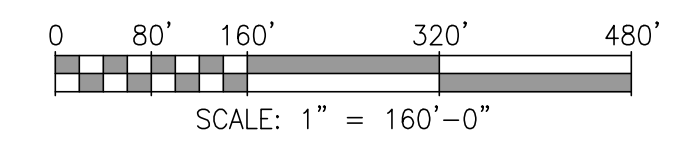
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G8 REV: A



FOR SLIP FILL HAULAGE ROAD  
& MISCELLANEOUS SITE WORK  
PARTIAL PLAN SEE DWG G10

FOR SLIP FILL HAULAGE ROAD  
& MISCELLANEOUS SITE WORK  
PARTIAL PLAN SEE DWG G11



ASPA PROJECT NO: 11099 - TASK 1 ASPA DWG NO:

NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWING G6 FOR PROJECT LIMITS.

NO.	REVISION	APPD.	DATE
A	ISSUED FOR BID	RST	04/05/24

**APTIM**  
PORT SERVICES, LLC

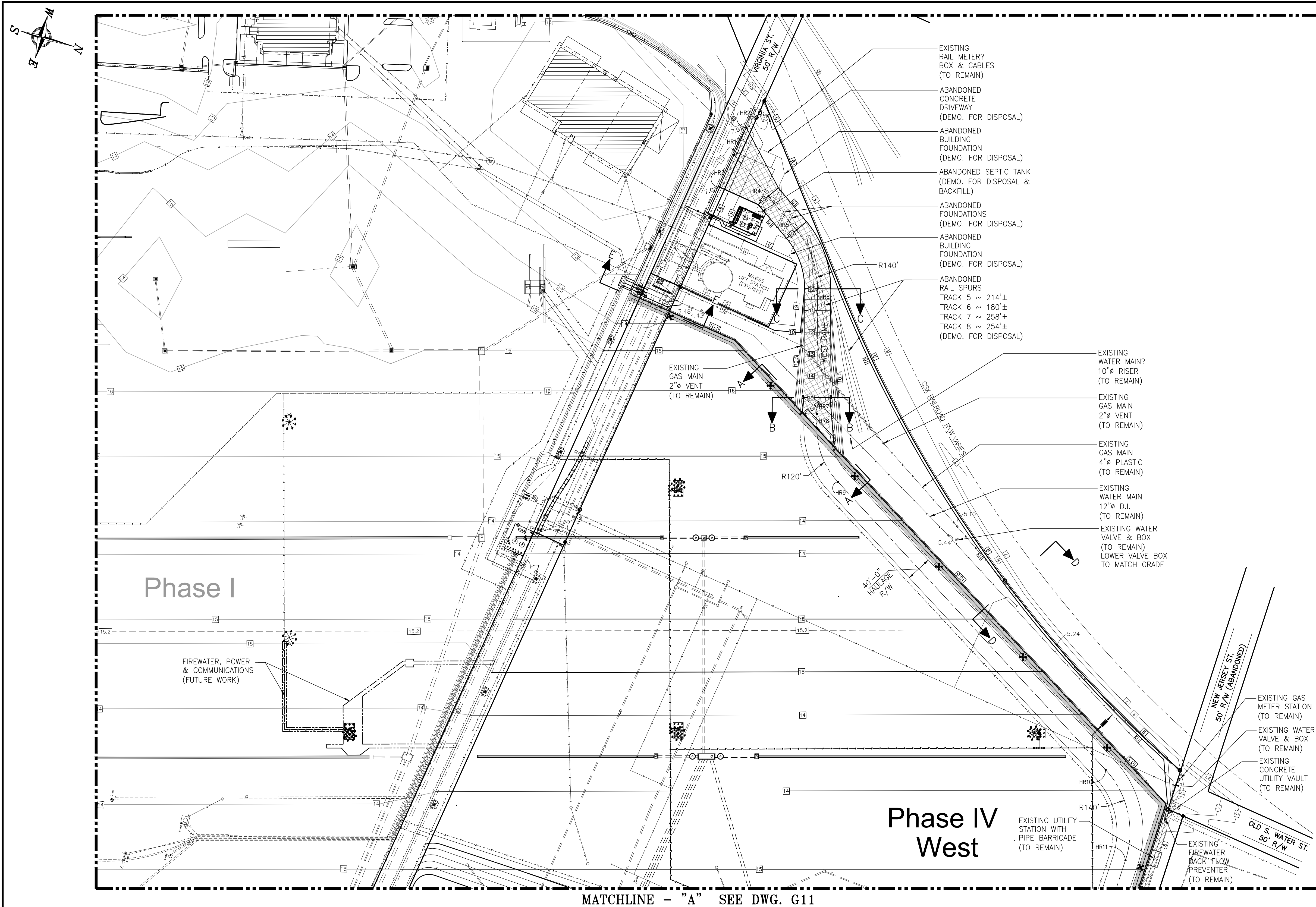
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DRAWN: RST CK'D: MED APPD: RSG DATE: 09/28/22 SCALE: 1"=160'

APMT PHASE IV YARD EXPANSION  
SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G9 REV: A

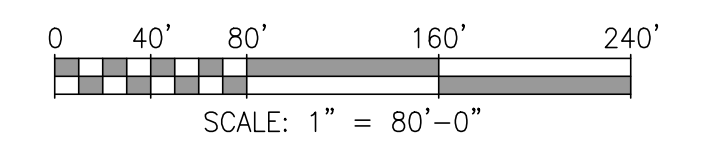


**SLIP FILL HAULAGE ROAD POINT COORDINATE TABLE**

POINT NO. (SEE PLAN)	NORTHING	EASTING
HR1	N.244352.90	E.1798062.86
HR2	N.244359.50	E.1798017.45
HR3	N.244345.12	E.1798116.42
HR4	N.244421.07	E.1798109.30
HR5	N.244476.91	E.1798147.35
HR6	N.244532.84	E.1798225.08
HR7	N.244584.88	E.1798409.81
HR8	N.244590.80	E.1798430.83
HR9	N.244644.40	E.1798501.09
HR10	N.245161.22	E.1798812.33
HR11	N.245228.90	E.1798937.42
HR12	N.245224.32	E.1799061.48
HR13	N.245078.75	E.1799196.20
HR14	N.244876.88	E.1799188.04
HR15	N.244846.47	E.1799190.13
HR16	N.244579.39	E.1799238.10
HR17	N.244350.97	E.1799279.13

**LEGEND:**

SYMBOL:	DESCRIPTION:
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	SPECIAL CONTOUR
	EXISTING CONTOUR
	PROPERTY OR STREET R/W BOUNDARY LINE
	RCP OR HDPE STORM DRAIN
	TRENCH STORM DRAIN
	HIGHMAST LIGHT POLE
	PERIMETER LIGHT POLE
	MESA RETAINING WALL W/ STRUCTURAL GEOGRID
	SPOT ELEVATION
	SLIP FILL HAULAGE ROAD POINT COORDINATE # (SEE PLAN & TABLE)
	INDICATES HAULAGE ROAD AREA TO RECEIVE 12" COMPACTED B-BASE OVER NX 750 GEOGRID
	UNKNOWN U/G PIPING & ELECTRICAL UTILITIES ARE LOCATED INSIDE LEASE BOUNDARY IN THIS AREA NEAR MESA WALL FOUNDATION & EXISTING SECURITY FENCE. (FIELD LOCATE ALL LINES & EXCAVATE WITH CAUTION)



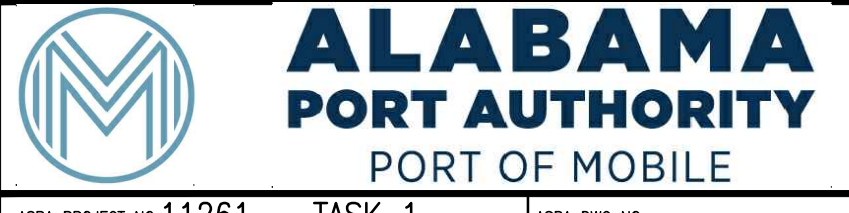
MATCHLINE - "A" SEE DWG. G11

- NOTES**
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWINGS G12 THRU G17 FOR HAULAGE ROAD, RAMP & MISC. SITE WORK CROSS SECTIONS.
  - COORDINATES SHOWN IN POINT COORDINATE TABLE ARE LOCATED ALONG CENTERLINE OF SLIP FILL HAULAGE ROAD (UNO).

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24



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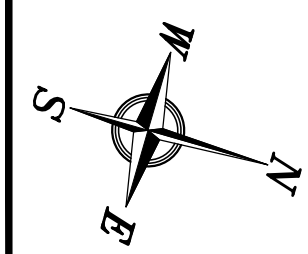


ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

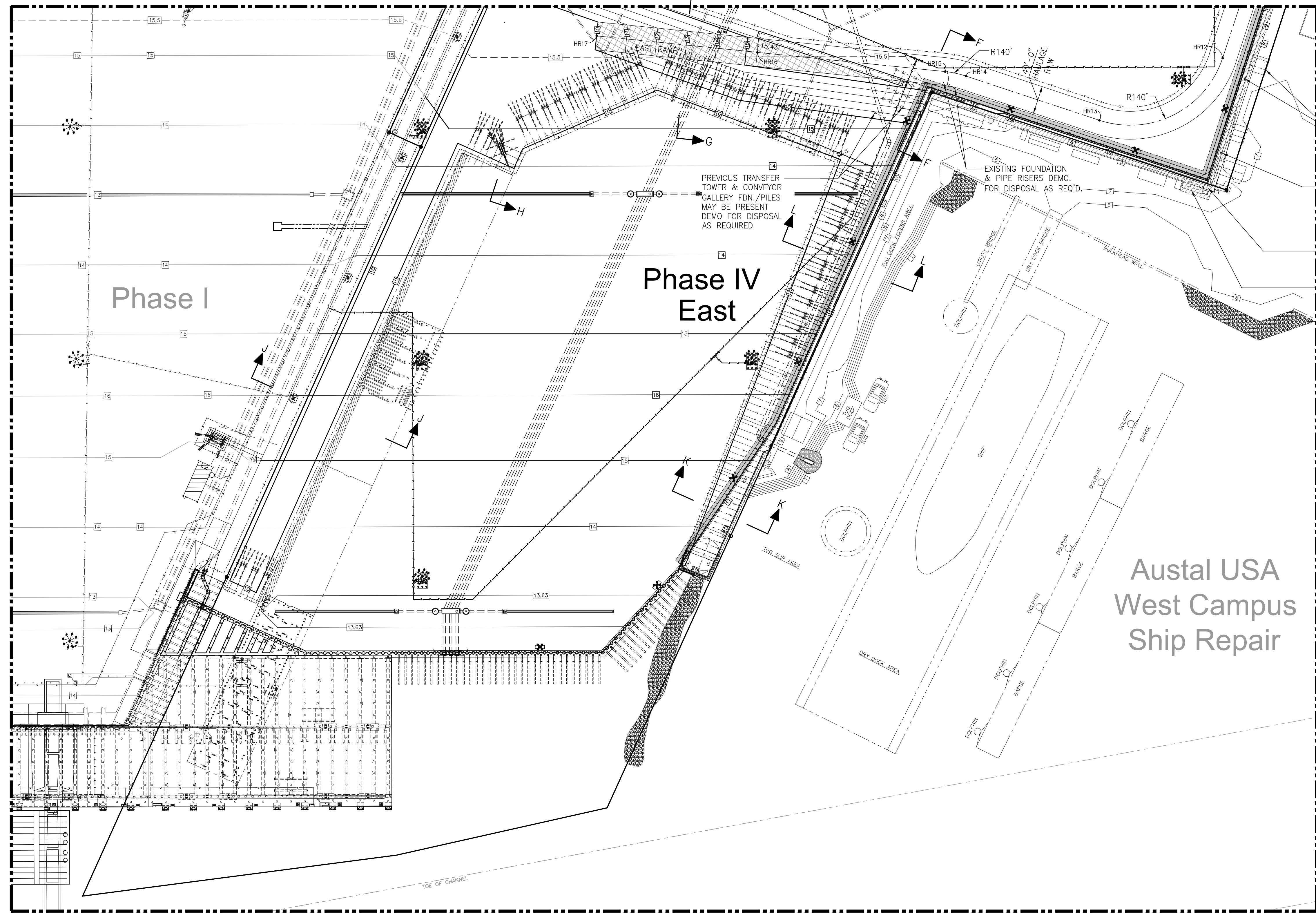
APMT PHASE IV YARD EXPANSION  
SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
PARTIAL PLAN (SHT. 1 OF 2)

FOR: ALABAMA PORT AUTHORITY

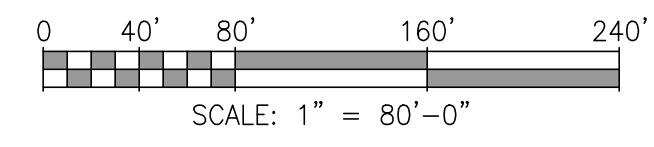
PROJECT NO: 4484 DWG NO: G10 REV: A



MATCHLINE - "A" SEE DWG. G10



- EXISTING PORTABLE WELDING SKID WITH PIPING & ELECTRICAL UTILITY STATION (TO REMAIN)
- EXISTING ELECTRICAL UTILITY STATION (TO REMAIN)
- EXISTING UTILITY STATION (TO REMAIN)
- EXISTING ELECTRICAL X-FMR, SWITCH & DISTRIBUTION PANEL PLATFORM (TO REMAIN)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

- NOTES
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  2. SEE DRAWING G10 FOR LEGEND AND SLIP FILL HAULAGE ROAD POINT COORDINATE TABLE.
  3. SEE DRAWINGS G12 THRU G17 FOR HAULAGE ROAD, RAMP & MISC. SITE WORK CROSS SECTIONS.



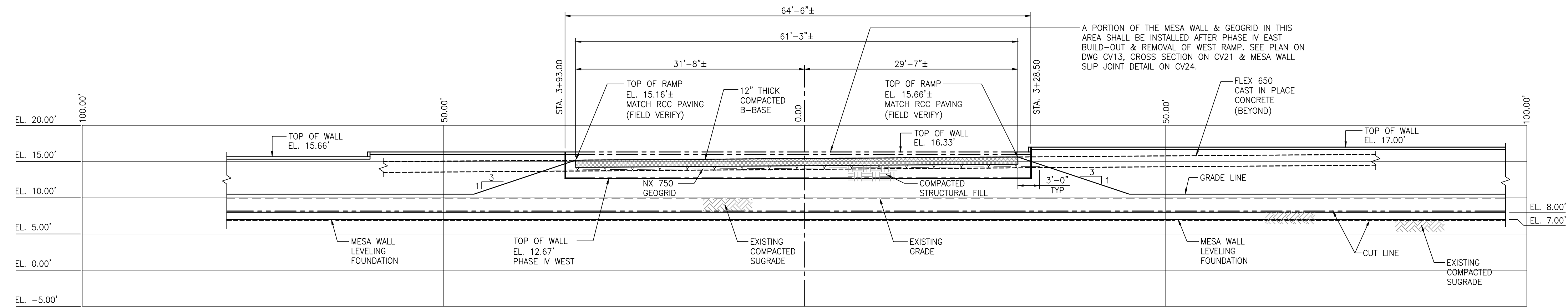
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APMT PHASE IV YARD EXPANSION  
SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
PARTIAL PLAN (SHT. 2 OF 2)

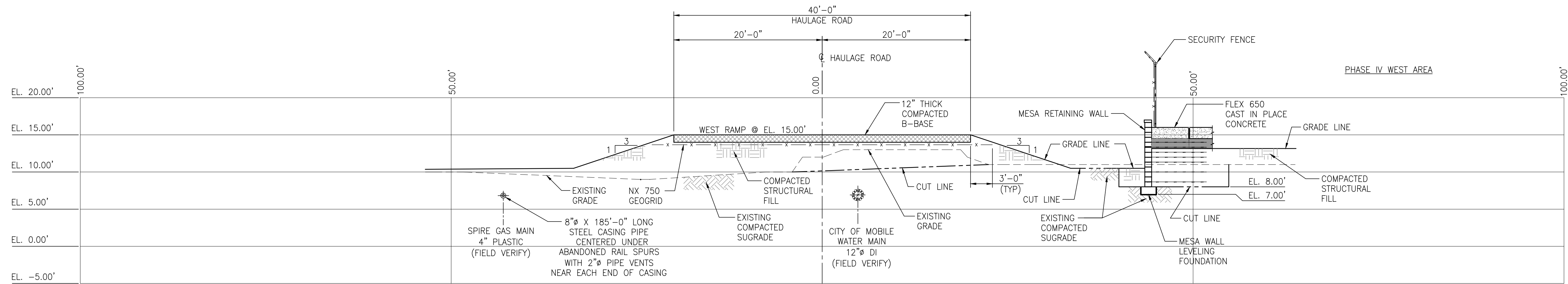
FOR: ALABAMA PORT AUTHORITY

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

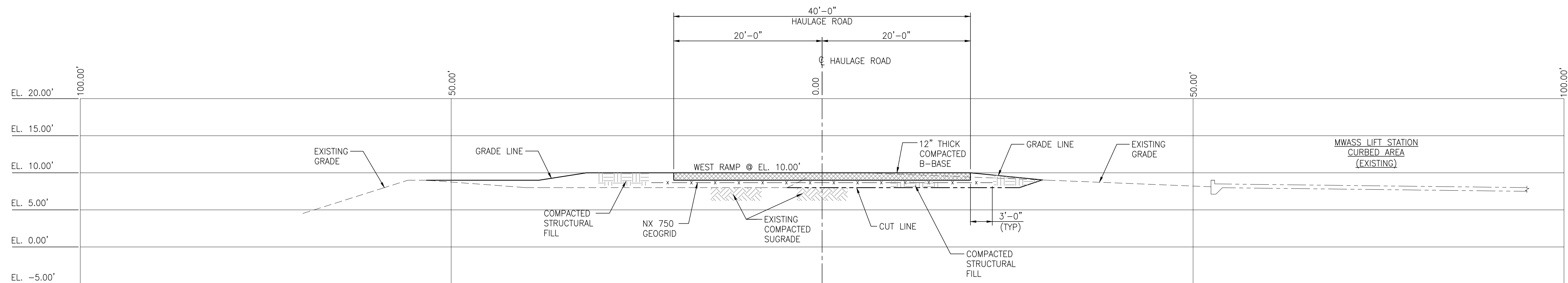
PROJECT NO: 4484 DWG NO: G11 REV: A



**TOP OF WEST RAMP TO MESA WALL INTERFACE CROSS SECTION A-A**  
1"=8' (SEE PLAN ON DWG G10)



**WEST RAMP CROSS SECTION B-B @ EL 15.00'**  
1"=8' (SEE PLAN ON DWG G10)



**BASE OF WEST RAMP CROSS SECTION C-C @ EL 10.00'**  
1"=8' (SEE PLAN ON DWG G10)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWINGS G9 THRU G11 FOR SLIP FILL HAULAGE ROAD AND MISC. SITE WORK PLANS.



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APMT PHASE IV YARD EXPANSION  
SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
WEST RAMP CROSS SECTIONS

FOR: ALABAMA PORT AUTHORITY

REFERENCE DRAWINGS

NO.

REVISION

DRAWN

CK'D

APPD

DATE

DRAWN: RST

CK'D: MED

APPD: RSG

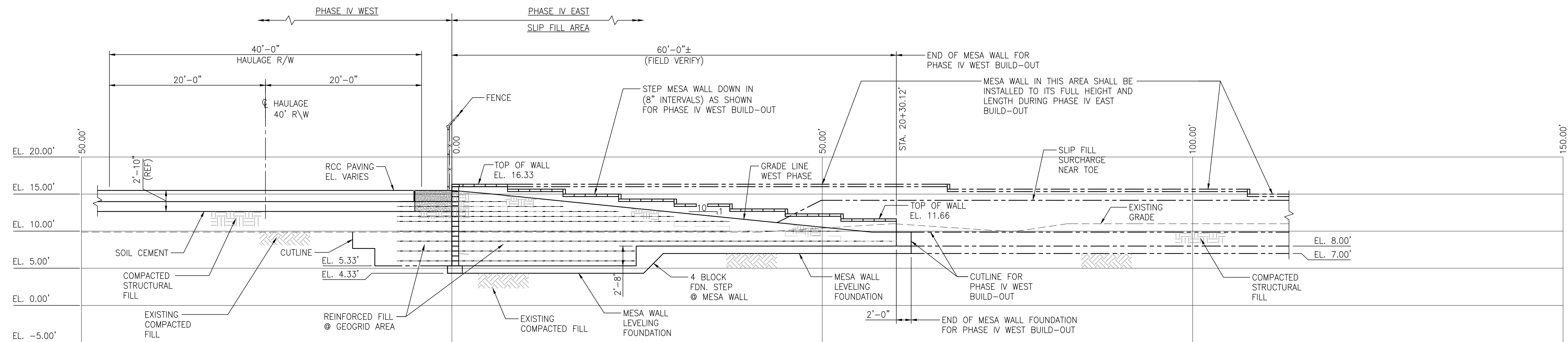
DATE: 09/28/22

SCALE: AS NOTED

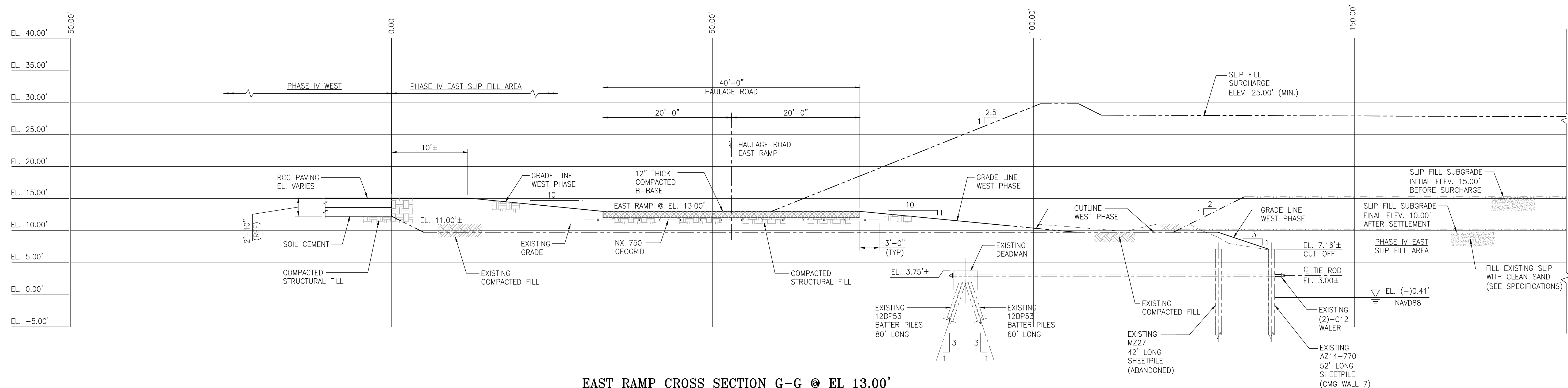
PROJECT NO: 4484

DWG NO: G12

REV: A



**EAST RAMP TO MESA WALL INTERFACE CROSS SECTION F-F**  
 1"=8' (SEE PLAN ON DWG G11)



**EAST RAMP CROSS SECTION G-G @ EL 13.00'**  
 1"=8' (SEE PLAN ON DWG G11)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

**NOTES**

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWINGS G9 THRU G11 FOR SLIP FILL HAULAGE ROAD AND MISC. SITE WORK PLANS.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

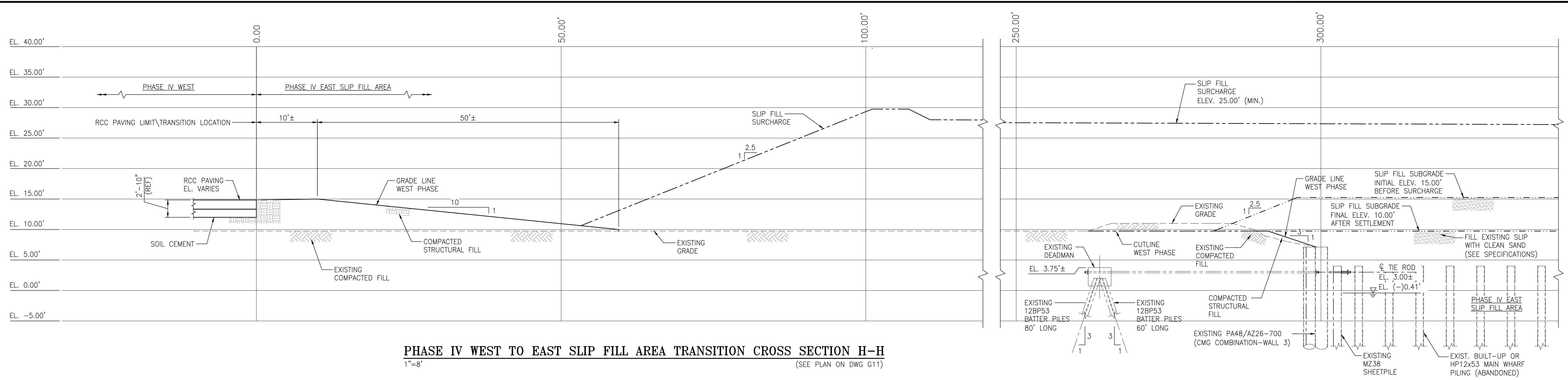
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DRAWN: RST CK'D: MED APPD: RSG DATE: 09/28/22 SCALE: AS NOTED

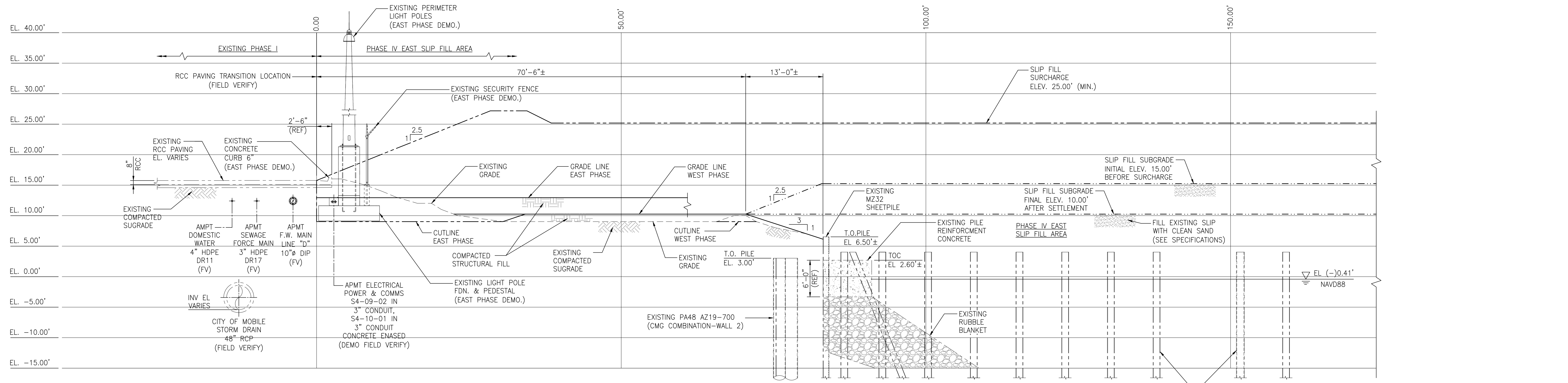
APMT PHASE IV YARD EXPANSION  
 SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
 EAST RAMP CROSS SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G13 REV: A



**PHASE IV WEST TO EAST SLIP FILL AREA TRANSITION CROSS SECTION H-H**  
1"=8' (SEE PLAN ON DWG G11)



**PHASE I TO PHASE IV EAST SLIP FILL AREA TRANSITION CROSS SECTION J-J**  
1"=8' (SEE PLAN ON DWG G11)

NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWINGS G9 THRU G11 FOR SLIP FILL HAULAGE ROAD AND MISC. SITE WORK PLANS.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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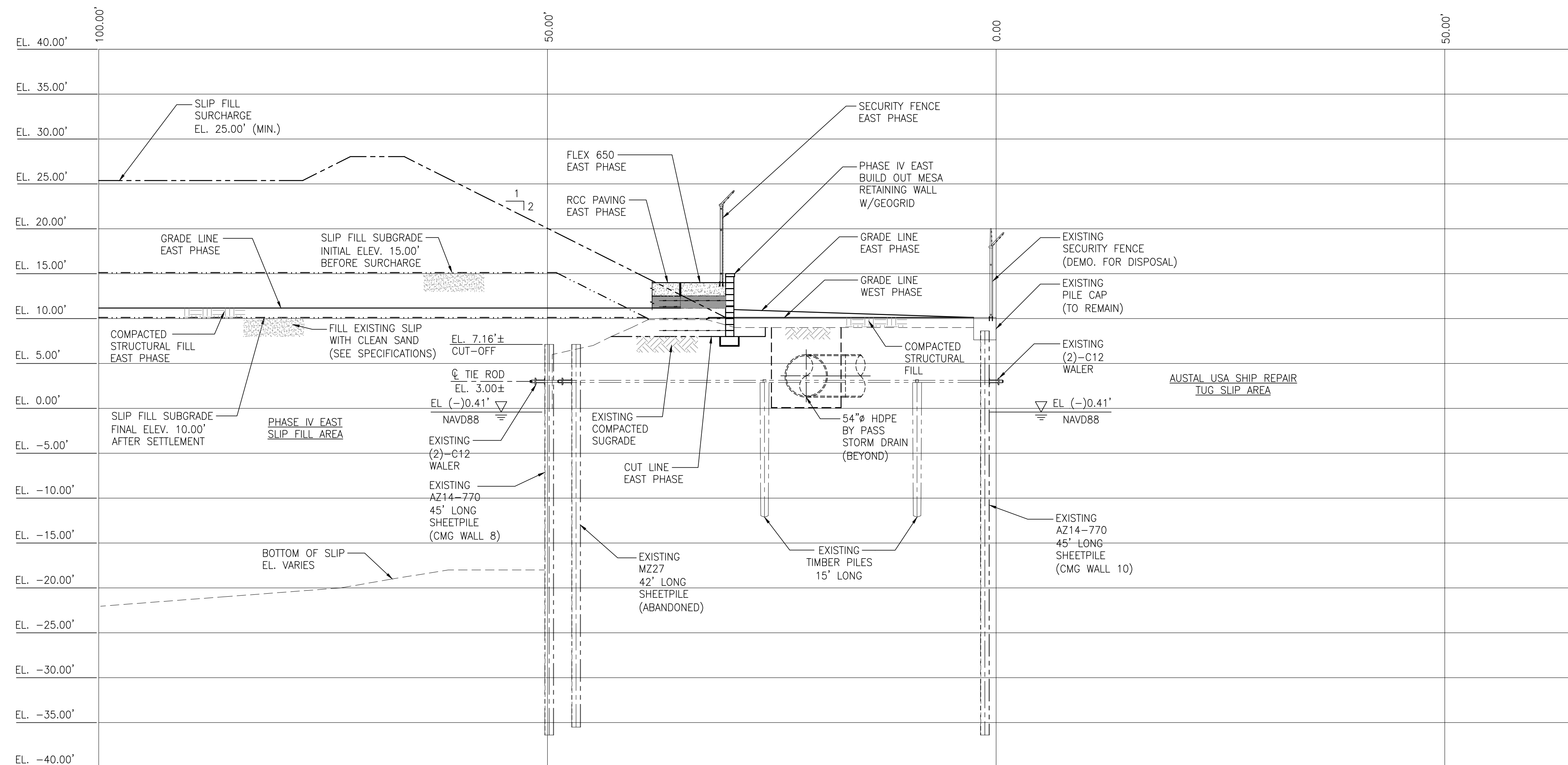
ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
TRANSITION CROSS SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G14 REV: A



PHASE IV EAST SLIP FILL AREA TO AUSTAL USA TUG SLIP AREA TRANSITION CROSS SECTION K-K  
 1"=8' (SEE PLAN ON DWG G11)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

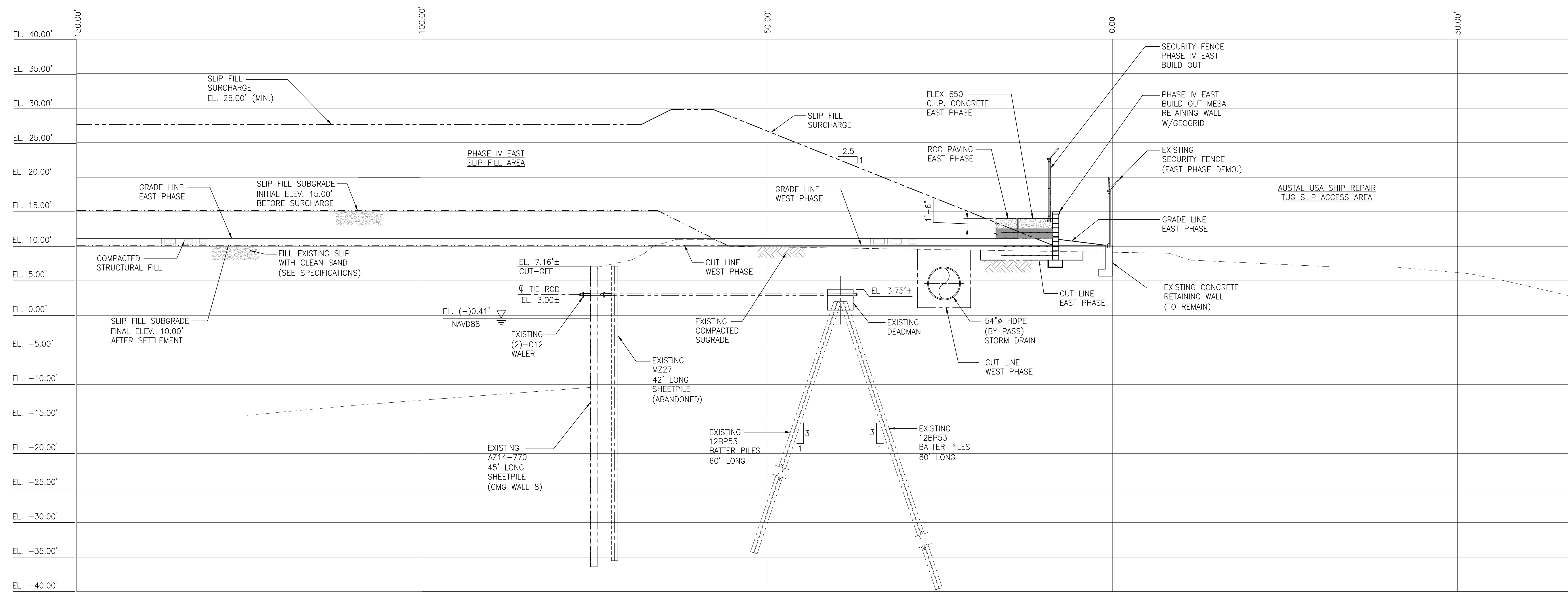
NOTES  
 1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.  
 2. SEE DRAWINGS G9 THRU G11 FOR SLIP FILL HAULAGE ROAD AND MISC. SITE WORK PLANS.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

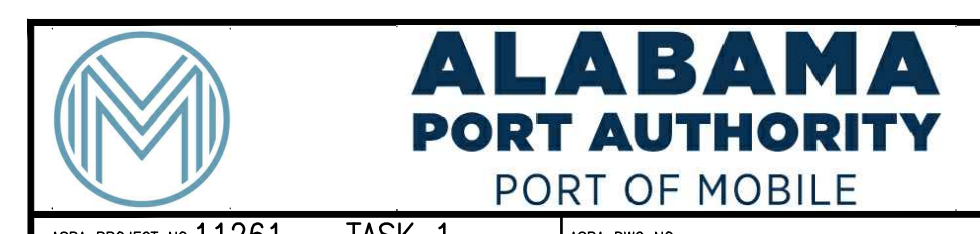
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APMT PHASE IV YARD EXPANSION  
 SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
 TRANSITION CROSS SECTIONS  
 FOR: ALABAMA PORT AUTHORITY  
 PROJECT NO: 4484 DWG NO: G15 REV: A





**PHASE IV EAST SLIP FILL AREA TO AUSTAL USA TUG DOCK ACCESS AREA TRANSITION CROSS SECTION L-L**  
 1"=8' (SEE PLAN ON DWG G11)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

**NOTES**

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWINGS G9 THRU G11 FOR SLIP FILL HAULAGE ROAD AND MISC. SITE WORK PLANS.

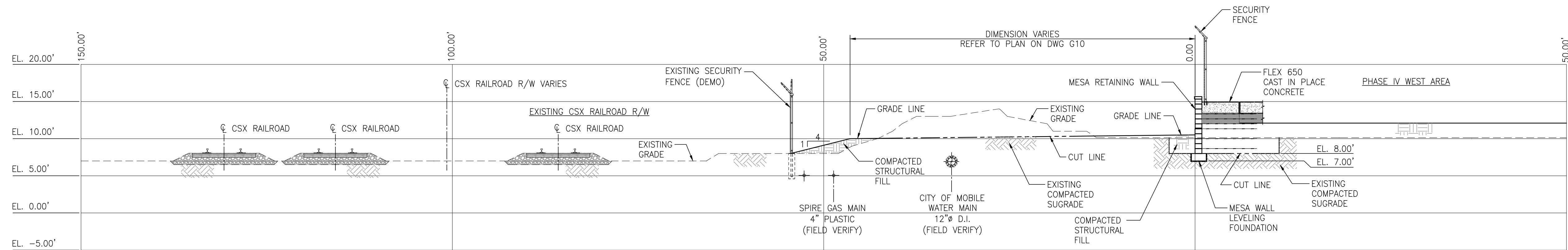
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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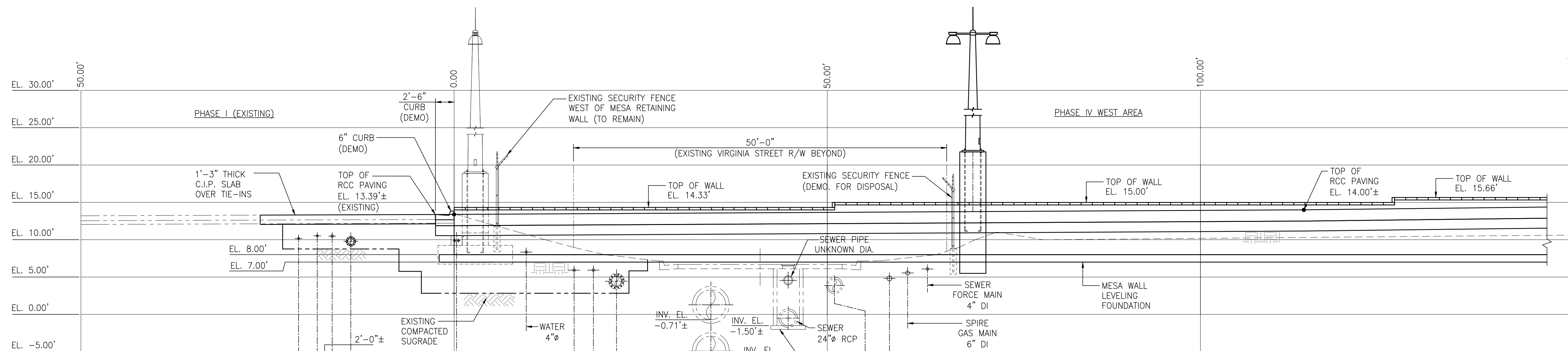
APMT PHASE IV YARD EXPANSION  
 SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
 TRANSITION CROSS SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G16 REV: A



**PHASE IV WEST TO CSX RAILROAD R/W TRANSITION CROSS SECTION D-D**  
 1"=8' (SEE PLAN ON DWG G10)



**PHASE I TO PHASE IV WEST (VIRGINIA STREET) TRANSITION CROSS SECTION E-E**  
 1"=8' (SEE PLAN ON DWG G10)

NOTE:  
 SEE DRAWING NO. 23-017A  
 FOR GEOPHYSICAL SUBSURFACE  
 SURVEY DETECTED FEATURES  
 OF UTILITY PIPING & ELECTRIC  
 / COMMUNICATION CONDUITS  
 IN THIS AREA.

- APMT SEWAGE FORCE MAIN 3" HDPE DR11
- APMT IRRIGATION WATER 3" HDPE
- APMT F.W. MAIN LINE "D" 10" DIP
- APMT DOMESTIC WATER 4" HDPE
- APMT ELECTRICAL POWER & COMMS S4-09-02 IN 3" CONDUIT, S4-10-02 IN 3" CONDUIT CONCRETE ENASED
- UNKNOWN UTILITY (FIELD VERIFY)
- UNKNOWN UTILITY (FIELD VERIFY)
- CITY WATER MAIN 16" CIP
- STORM DRAIN 48" RCP
- EXISTING VIRGINIA ST. OUTFALL @ MOBILE RIVER
- SEWER 24" RCP
- SEWER FORCE MAIN 4" DI
- SPIRE GAS MAIN 6" DI
- STORM DRAIN? 8" PIPE (FIELD VERIFY)
- STORM DRAIN? 24" RCP (FIELD VERIFY)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWINGS G9 THRU G11 FOR SLIP FILL HAULAGE ROAD AND MISC. SITE WORK PLANS.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	

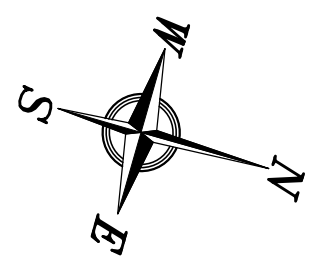
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DRAWN: RST CK'D: MED APPD: RSG DATE: 09/28/22 SCALE: AS NOTED

APMT PHASE IV YARD EXPANSION  
 SLIP FILL HAULAGE ROAD & MISC. SITE WORK  
 TRANSITION CROSS SECTIONS

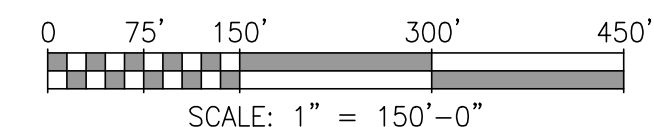
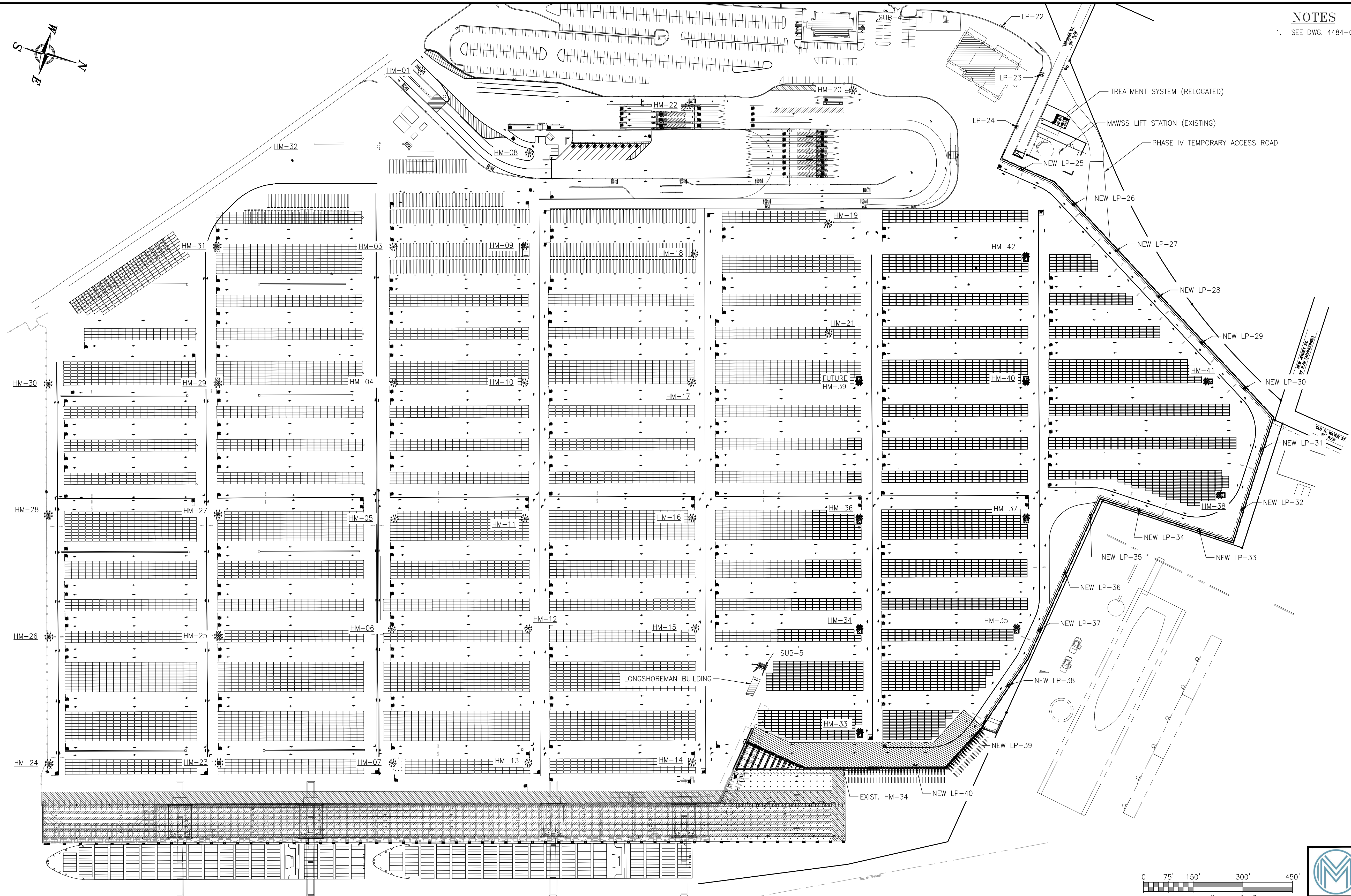
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G17 REV: A



**NOTES**

- SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

OVERALL PLAN - TOP PICK LAYOUT

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: G18 | REV: A



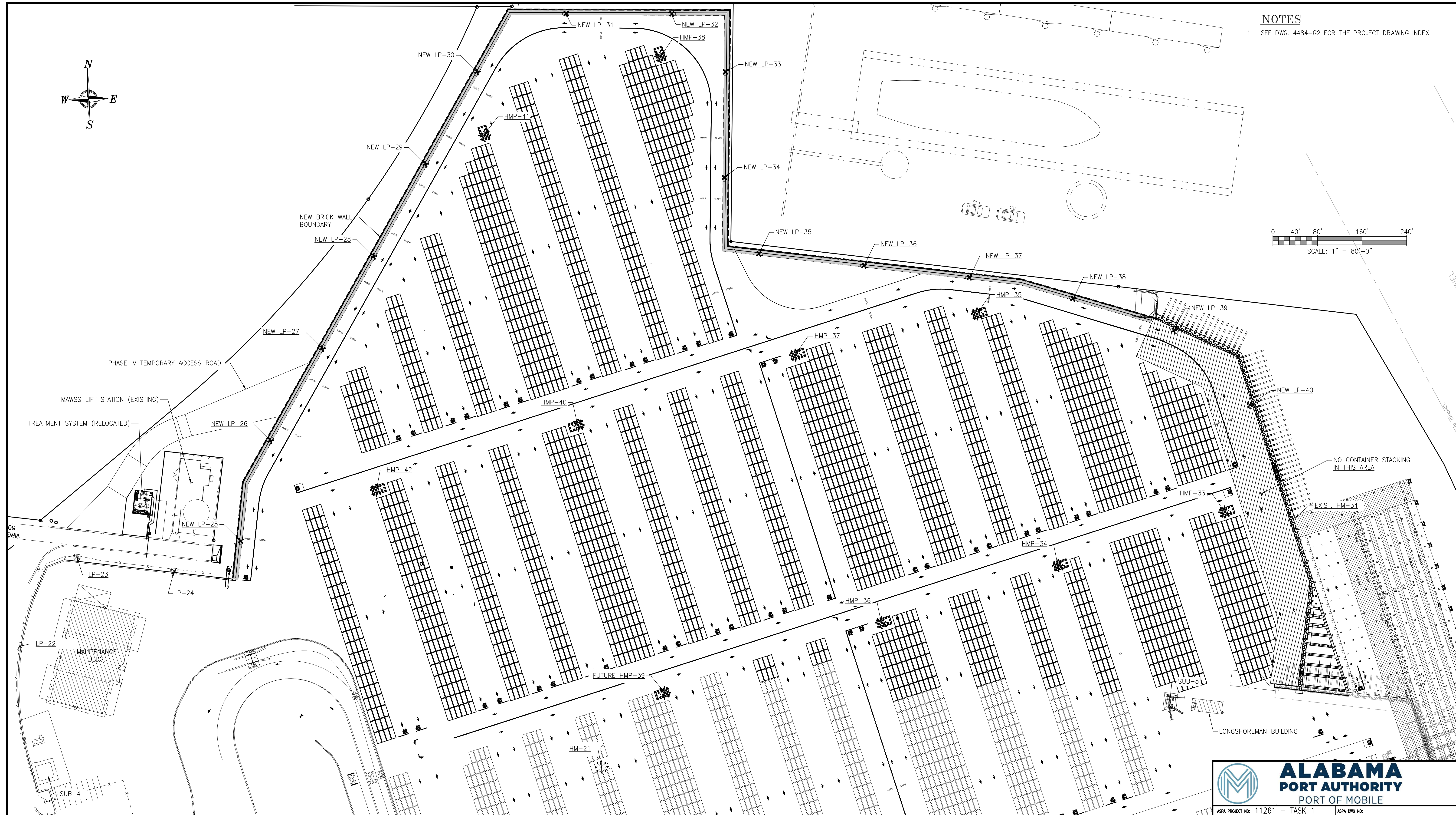
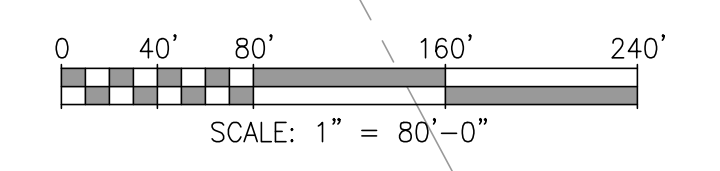
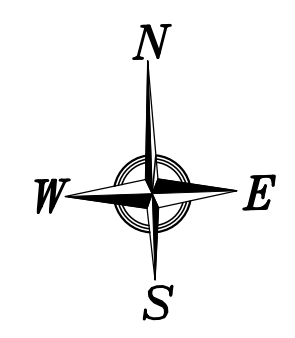
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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

**NOTES**

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE

**NOTES**  
 1. SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.



NOTES



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:



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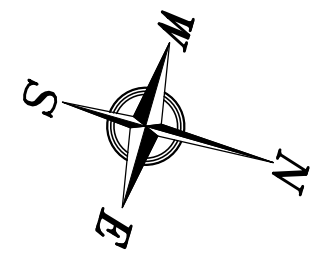
APMT PHASE IV YARD EXPANSION

PARTIAL PLAN - TOP PICK LAYOUT

FOR: ALABAMA PORT AUTHORITY

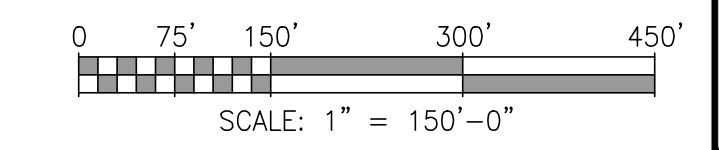
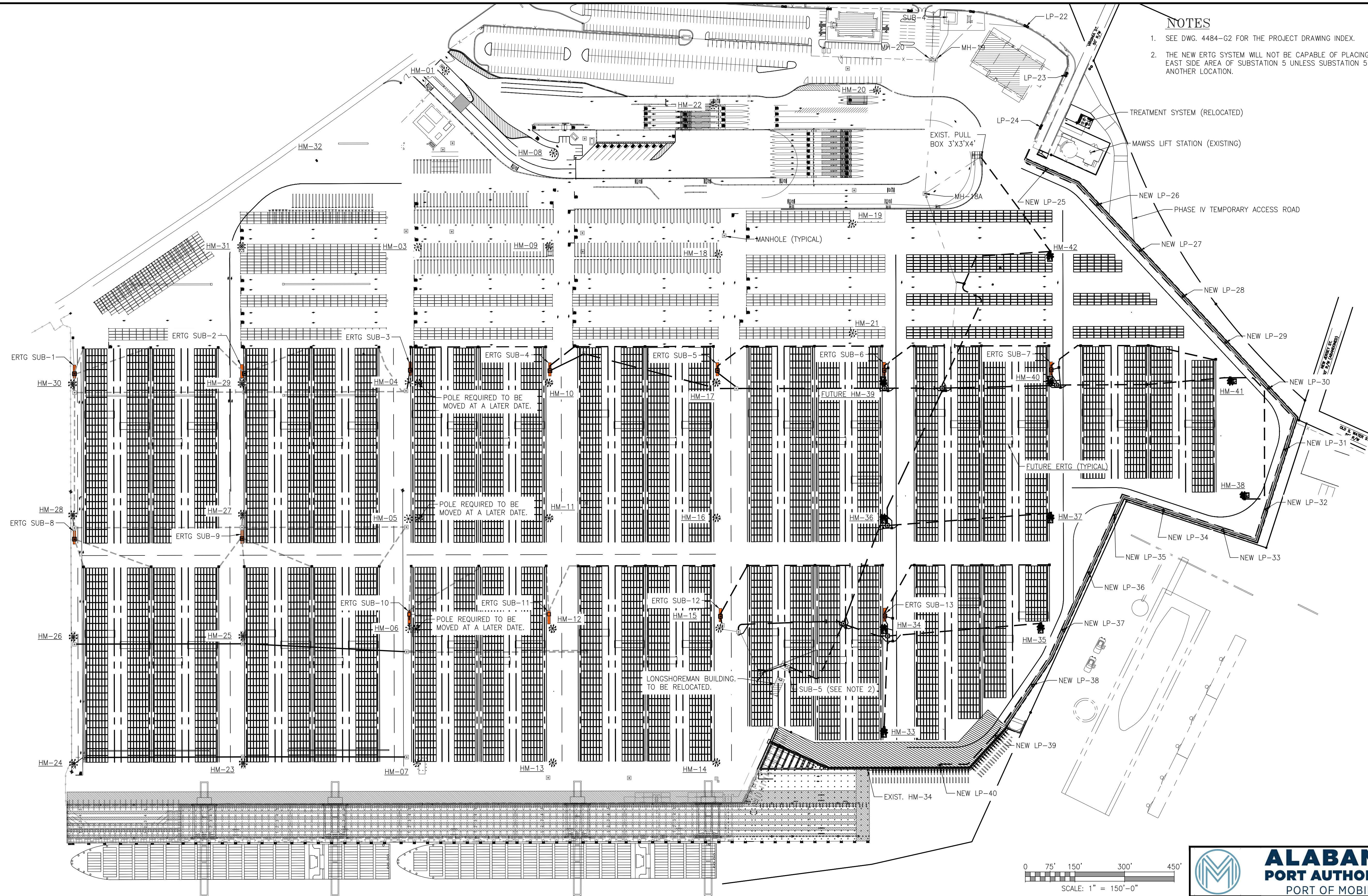
NO.	REVISION	DATE	APPD	CK'D	WMB	MED	RSG
A	ISSUED FOR BID	04/05/24					
	REFERENCE DRAWINGS						

PROJECT NO: 4484 DWG NO: G19 REV: A



**NOTES**

- SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.
- THE NEW ERTG SYSTEM WILL NOT BE CAPABLE OF PLACING CONTAINERS ON THE EAST SIDE AREA OF SUBSTATION 5 UNLESS SUBSTATION 5 IS RELOCATED TO ANOTHER LOCATION.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

OVERALL PLAN - FUTURE ERTG LAYOUT

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: G20

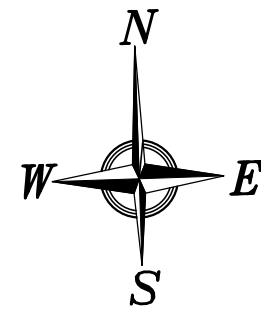
REV: A



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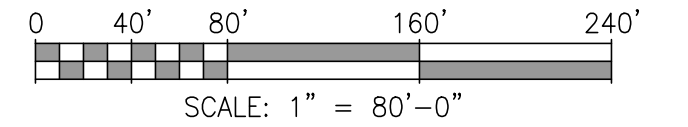
**NOTES**

NO.	REVISION	DATE	APPD	DATE	APPD	DATE	APPD
A	ISSUED FOR BID	04/05/24	WMB	MED	RSG	04/05/24	
	REFERENCE DRAWINGS						



**NOTES**

- 1. SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.
- 2. THE NEW ERTG SYSTEM WILL NOT BE CAPABLE OF PLACING CONTAINERS ON THE EAST SIDE AREA OF SUBSTATION 5 UNLESS SUBSTATION 5 IS RELOCATED TO ANOTHER LOCATION.

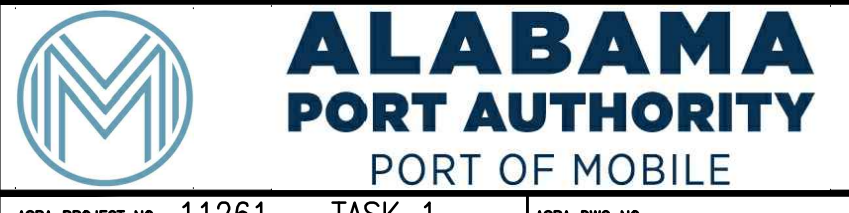


**NOTES**

A		ISSUED FOR BID	WMB	MED	RSG	04/05/24
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



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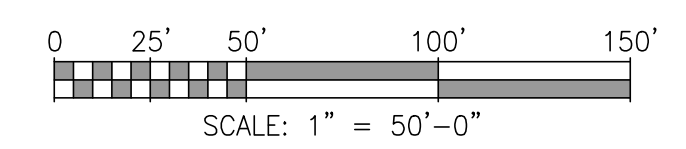


ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:  
 APMT PHASE IV YARD EXPANSION  
 PARTIAL PLAN - FUTURE ERTG LAYOUT  
 FOR: ALABAMA PORT AUTHORITY  
 PROJECT NO: 4484 | DWG NO: G21 | REV: A



SURCHARGE DATA COORDINATE TABLE

POINT NO. (SEE PLAN)	NORTHING	EASTING
T-1	N.244816.92	E.1799309.66
T-2	N.244748.84	E.1799778.09
T-3	N.244677.11	E.1799948.46
T-4	N.244613.13	E.1799940.93
T-5	N.244555.81	E.1800061.07
T-6	N.244157.35	E.1800177.70
T-7	N.244035.92	E.1800167.37
T-8	N.244163.18	E.1799338.28
T-9	N.244446.59	E.1799247.83



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:



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APMT PHASE IV YARD EXPANSION  
SURCHARGE AREA

FOR: ALABAMA PORT AUTHORITY

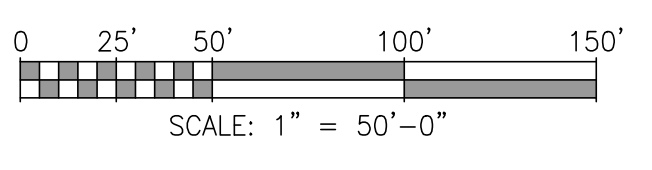
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

PROJECT NO: 4484 DWG NO: G22 REV: A



**WICKS DATA  
COORDINATE TABLE**


POINT NO. (SEE PLAN)	NORTHING	EASTING
W-1	N.244677.43	E.1799424.00
W-2	N.244650.12	E.1799734.55
W-3	N.244654.08	E.1799972.56
W-4	N.244602.40	E.1800130.14
W-5	N.244168.60	E.1800258.55
W-6	N.244009.75	E.1800240.50
W-7	N.244016.94	E.1800181.11
W-8	N.244122.32	E.1800201.74
W-9	N.244218.06	E.1799499.51
W-10	N.244292.95	E.1799507.10
W-11	N.244306.97	E.1799465.67
W-12	N.244480.74	E.1799406.45



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO:

NOTES

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



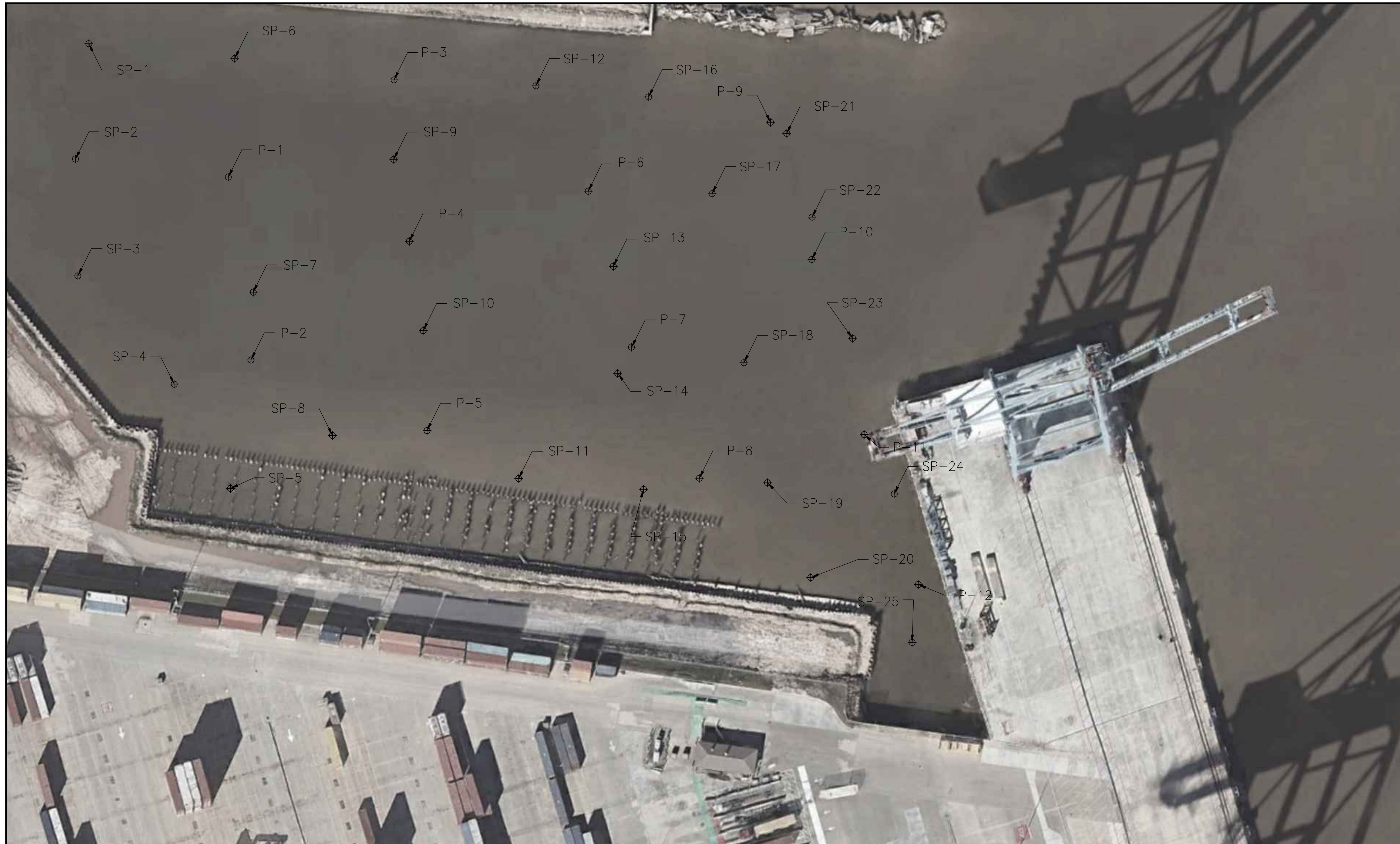
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DRAWN: WMB	CK'D: MED	APPD: RSG	DATE: 06/20/23	SCALE: NONE
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APMT PHASE IV YARD EXPANSION	
WICK DRAIN AREA	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: G23
REV: A	



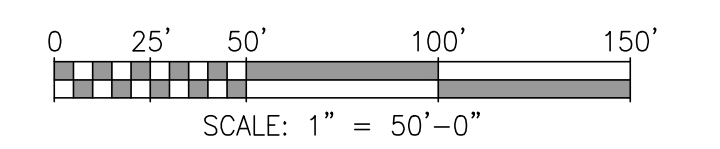


**PIEZOMETRIC DATA  
COORDINATE TABLE**

POINT NO. (SEE PLAN)	NORTHING	EASTING
P-1	N.244540.68	E.1799575.25
P-2	N.244364.17	E.1799597.05
P-3	N.244634.48	E.1799735.10
P-4	N.244478.74	E.1799749.76
P-5	N.244296.07	E.1799766.81
P-6	N.244527.02	E.1799922.28
P-7	N.244376.60	E.1799964.01
P-8	N.244250.08	E.1800029.43
P-9	N.244593.46	E.1800098.03
P-10	N.244461.24	E.1800137.96
P-11	N.244292.24	E.1800188.40
P-12	N.244147.60	E.1800240.53

**SETTLEMENT PLATE DATA  
COORDINATE TABLE**

POINT NO. (SEE PLAN)	NORTHING	EASTING
SP-1	N.244669.35	E.1799440.68
SP-2	N.244558.11	E.1799427.89
SP-3	N.244445.35	E.1799430.18
SP-4	N.244340.88	E.1799523.05
SP-5	N.244240.24	E.1799577.27
DP-6	N.244655.22	E.1799581.46
SP-7	N.244429.63	E.1799599.25
SP-8	N.244291.41	E.1799675.61
SP-9	N.244557.74	E.1799734.73
SP-10	N.244392.47	E.1799763.18
SP-11	N.244249.82	E.1799855.25
SP-12	N.244628.73	E.1799871.83
SP-13	N.244454.52	E.1799946.46
SP-14	N.244351.20	E.1799950.68
SP-15	N.244239.42	E.1799975.61
SP-16	N.244618.03	E.1799980.56
SP-17	N.244524.63	E.1800041.74
SP-18	N.244361.53	E.1800072.40
SP-19	N.244245.76	E.1800095.12
SP-20	N.244154.27	E.1800136.81
SP-21	N.244582.84	E.1800113.70
SP-22	N.244501.98	E.1800138.15
SP-23	N.244385.04	E.1800177.21
SP-24	N.244235.00	E.1800217.37
SP-25	N.244091.61	E.1800234.60



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
PIEZOMETRIC & SETTLEMENT PLATE AREA

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: G24 | REV: A



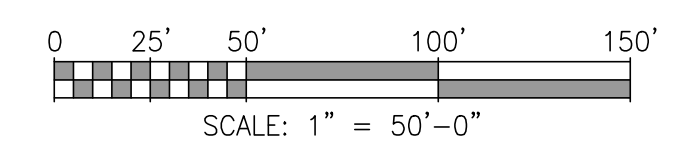
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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
	REFERENCE DRAWINGS				



**GROUND MODIFICATIONS DATA COORDINATE TABLE**

POINT NO. (SEE PLAN)	NORTHING	EASTING
M-1	N.244679.09	E.1799913.26
M-2	N.244675.12	E.1799983.67
M-3	N.244605.68	E.1800129.53
M-4	N.244168.25	E.1800255.72
M-5	N.244009.39	E.1800239.56
M-6	N.244016.94	E.1800181.43
M-7	N.244118.35	E.1800195.75
M-8	N.244136.79	E.1800141.76
M-9	N.244530.11	E.1800035.79
M-10	N.244584.94	E.1799903.07



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
GROUND MODIFICATIONS AREA

FOR: ALABAMA PORT AUTHORITY

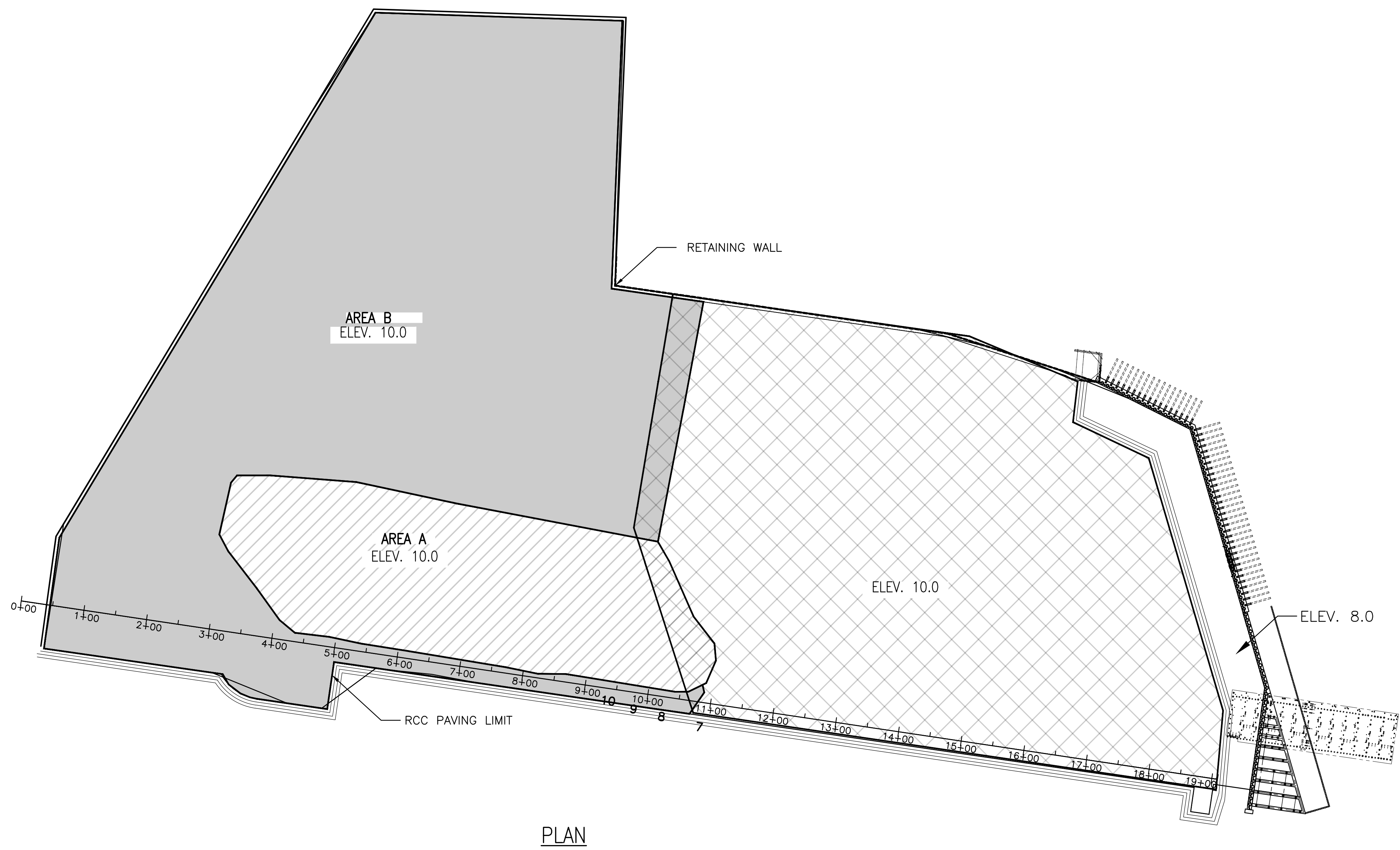
PROJECT NO: 4484 DWG NO: G25 REV: A



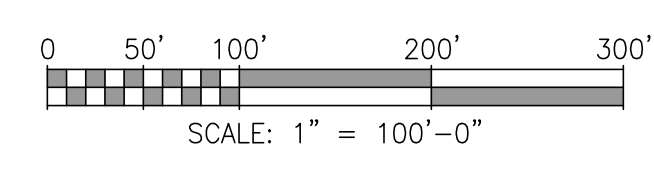
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**NOTES**  
1. THIS AREA WILL INCLUDE RIGID INCLUSIONS AND A LOAD TRANSFER PLATFORM. REFER TO SPECIFICATIONS NUMBERED 02220 AND 02230.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	WMB	MED	RSG	04/05/24



PLAN



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

- NOTES
- REFER TO DRAWING G5 FOR EXISTING TOPOGRAPHIC AND HYDROGRAPHIC SURVEYS.
  - EXISTING MATERIAL WITHIN AREA A IS TO BE REMOVED OFFSITE AND STORED FOR USE AS SURCHARGE MATERIAL FOR AREA C.
  - EXISTING MATERIAL WITHIN AREA B THAT MEETS THE SPECIFIED GRADATION REQUIREMENTS MAY BE UTILIZED AS FILL.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	PAR	JAB	MED	04/05/24

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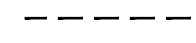

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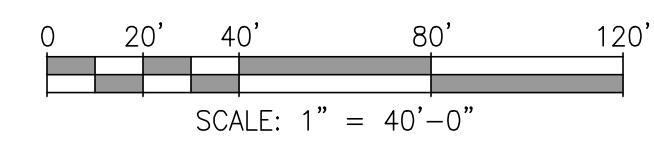
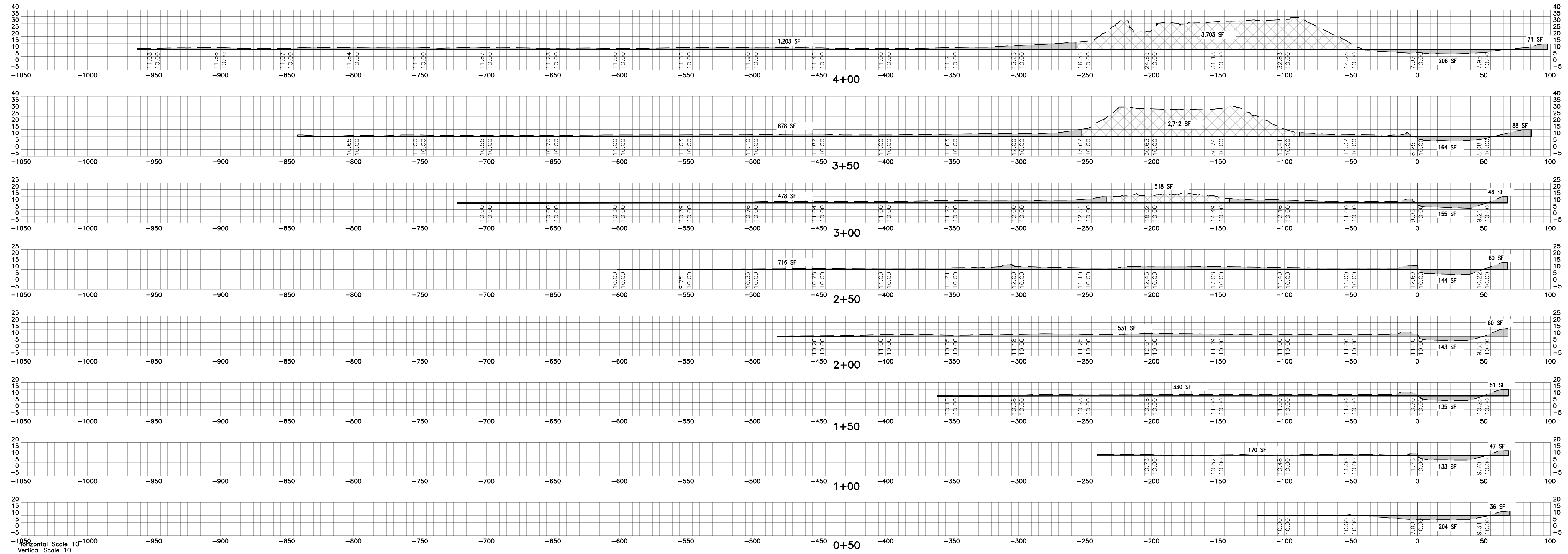
APMT PHASE IV YARD EXPANSION  
 STATIONING AND ROUGH GRADING PLAN  
 ROUGH GRADE AT ELEV. 10.0'

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV1 REV: A

LEGEND

-  AREA "A" BETWEEN EXISTING GRADE AND ROUGH GRADE
-  AREA "B" BETWEEN EXISTING GRADE AND ROUGH GRADE
-  EXISTING GRADE
-  ROUGH GRADE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
EXISTING GRADE AND ROUGH GRADE SECTIONS  
STATION 0+50 TO 4+00

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV2 REV: A



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DRAWN: PAR CK'D: JAB APPD: MED DATE: 7/31/23 SCALE: 1"=40'

NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	PAR	JAB	MED	04/05/24
	REFERENCE DRAWINGS				

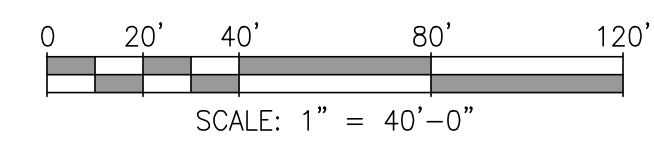
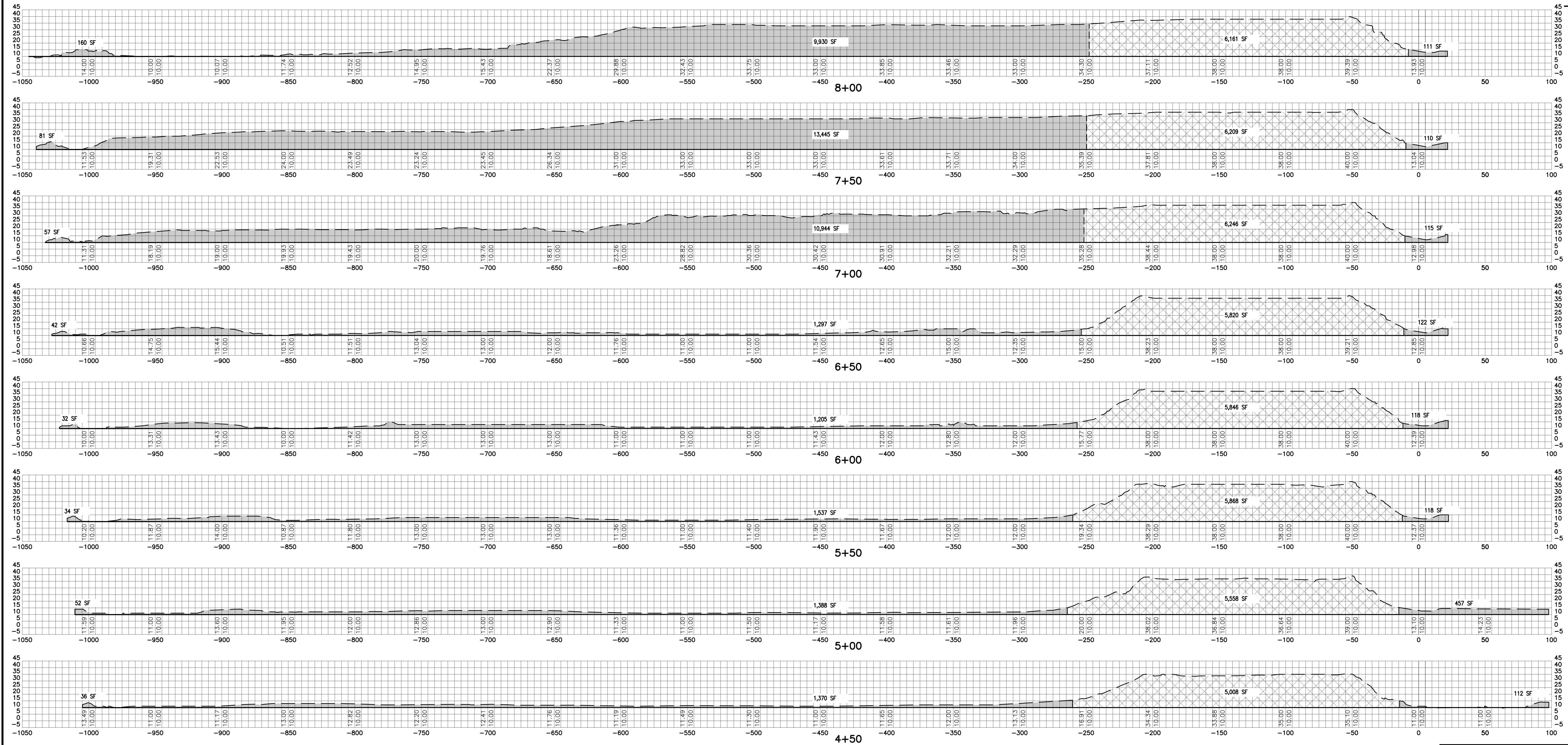
LEGEND

AREA "A" BETWEEN EXISTING GRADE AND ROUGH GRADE

AREA "B" BETWEEN EXISTING GRADE AND ROUGH GRADE

EXISTING GRADE

ROUGH GRADE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	PAR	JAB	MED	04/05/24



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APMT PHASE IV YARD EXPANSION  
EXISTING GRADE AND ROUGH GRADE SECTIONS  
STATION 4+50 TO 8+00

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV3 REV: A

**LEGEND**

AREA "A" BETWEEN EXISTING GRADE AND ROUGH GRADE

AREA "B" BETWEEN EXISTING GRADE AND ROUGH GRADE

EXISTING GRADE

ROUGH GRADE

VOLUMES COMPUTED WITHIN AREA "A" FROM STA 0+00 TO 10+50

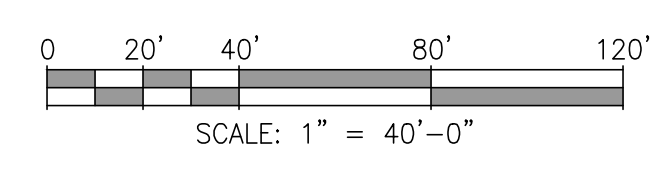
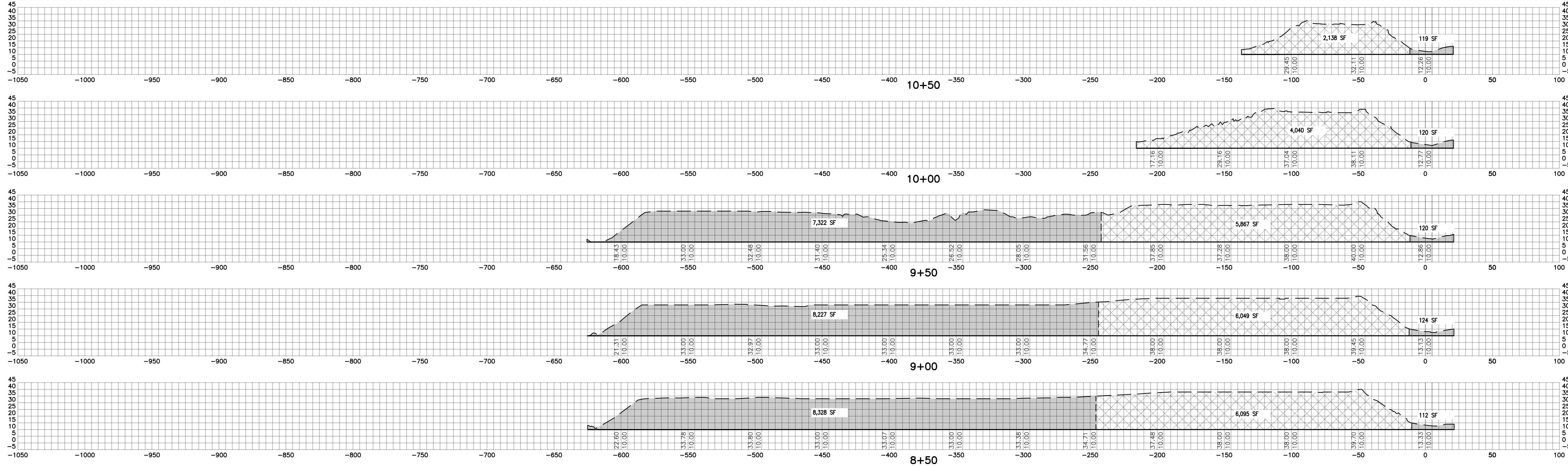
CUT VOLUME: 144,772.44 C.Y.  
AREA IN CUT: 3.96 ACRES

CUT VOLUME COMPUTED WITHIN AREA "B" FROM STA 0+00 TO 10+50

CUT VOLUME: 132,815.56 C.Y.  
AREA IN CUT: 13.21 ACRES

FILL VOLUME COMPUTED WITHIN AREA "B" FROM STA 0+50 TO 4+00

FILL VOLUME: 2,292.98 C.Y.  
AREA IN FILL: 0.67 ACRES



**ALABAMA  
PORT AUTHORITY**

PORT OF MOBILE

ASPA PROJECT NO: 11261 – TASK 1 | ASPA DRAWING NO.

NOTES

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID		PAR	JAB	MED	04/05/24

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**APMT PHASE IV YARD EXPANSION**

**EXISTING GRADE AND ROUGH GRADE SECTIONS**


**STATION 8+50 TO 10+50**


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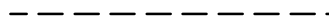
FOR: **ALABAMA PORT AUTHORITY**

PROJECT NO: **4484**
DWG NO: **CV4**
REV: **A**

**LEGEND**

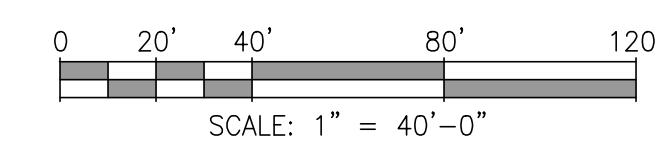
 FILL AREA BETWEEN SUBGRADE AND ROUGH GRADE

 SUBGRADE

 ROUGH GRADE



Horizontal Scale 10  
Vertical Scale 10



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SUBGRADE AND ROUGH GRADE SECTIONS  
STATION 0+50 TO 5+50

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV5 REV: A


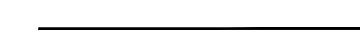
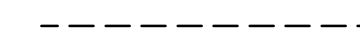


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DRAWN: PAR CK'D: JAB APPD: MED DATE: 04/05/24  
DRAWN: PAR CK'D: JAB APPD: MED DATE: 7/31/23 SCALE: 1"=40'

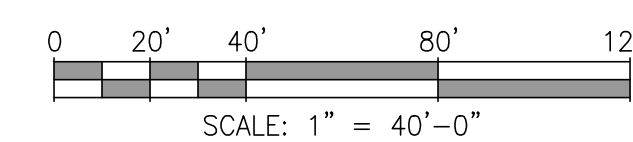
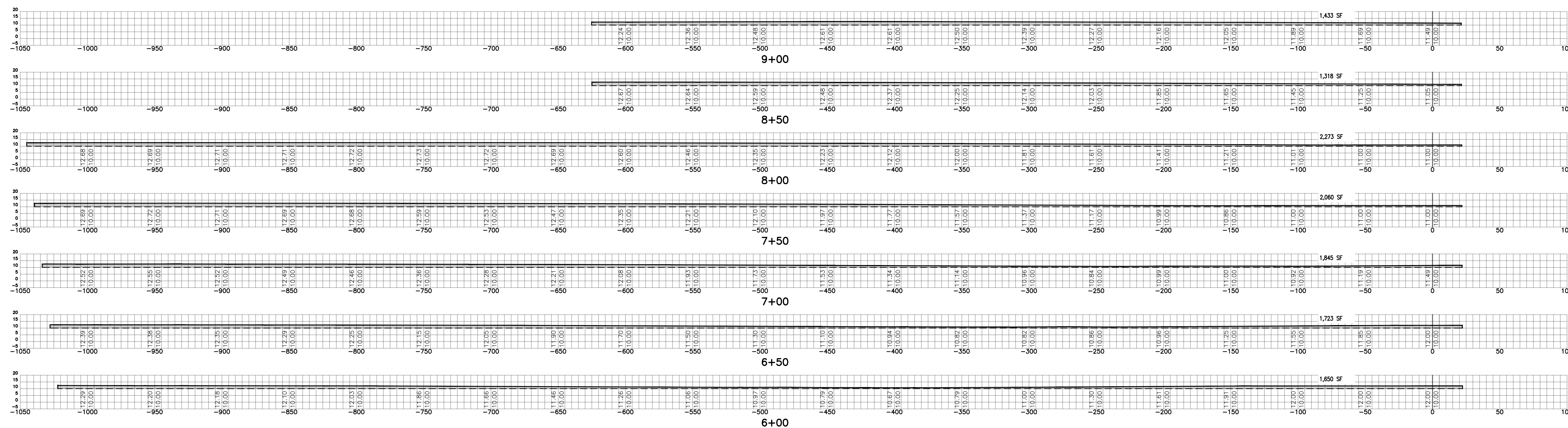
NOTES

LEGEND

-  FILL AREA BETWEEN SUBGRADE AND ROUGH GRADE
-  SUBGRADE
-  ROUGH GRADE

VOLUMES COMPUTED WITHIN THE RCC COMBINED  
AREAS "A" AND "B" FROM STA 0+00 TO 9+00

FILL VOLUME: 51,644.87 C.Y.  
AREA IN FILL: 18.16 ACRES



**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

NOTES



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APMT PHASE IV YARD EXPANSION  
SUBGRADE AND ROUGH GRADE SECTIONS  
STATION 6+00 TO 9+00

FOR: ALABAMA PORT AUTHORITY

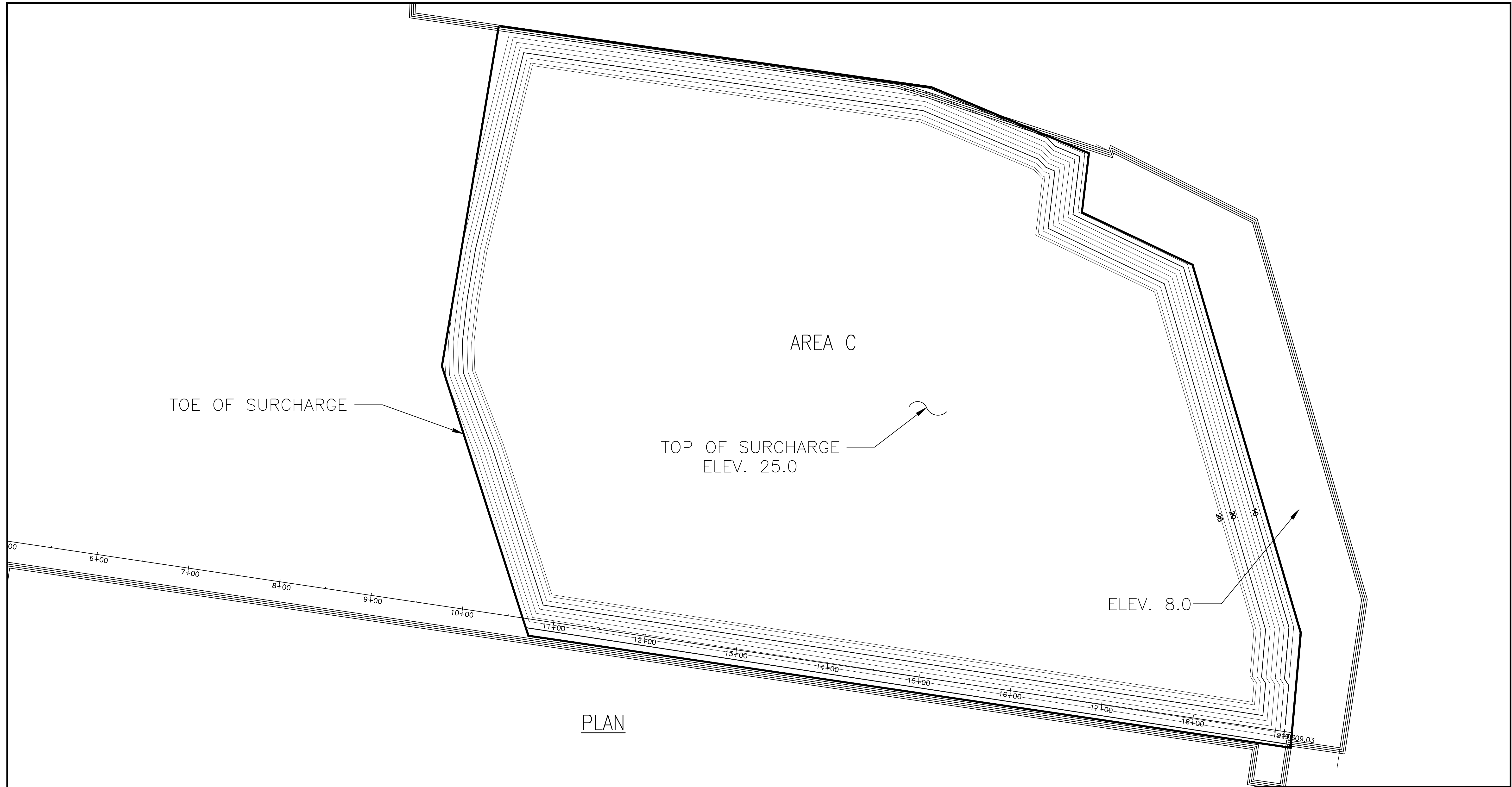
REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	PAR	JAB	MED	04/05/24

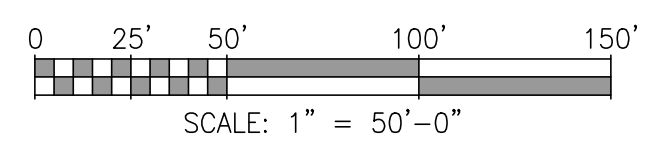
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PROJECT NO: 4484 DWG NO: CV6 REV: A





PLAN



**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO:

NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24

**APTIM  
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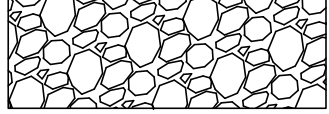
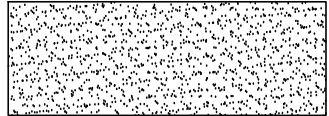


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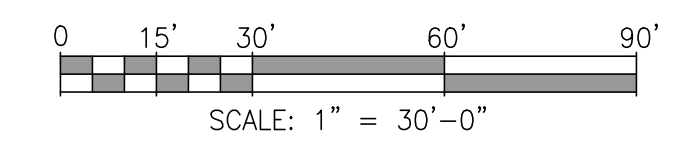
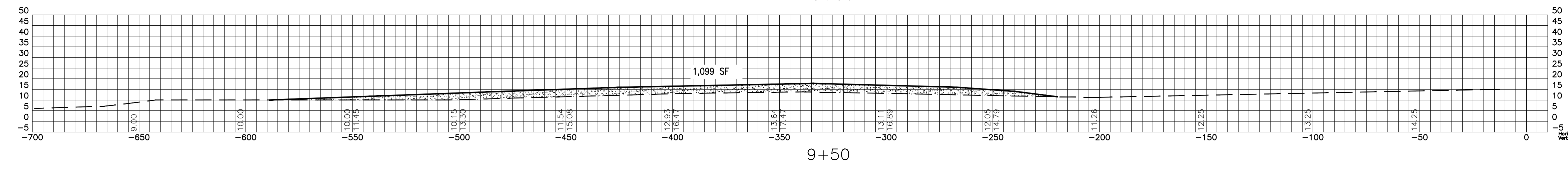
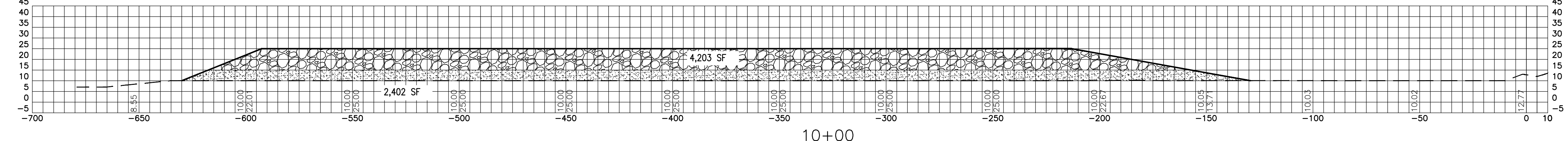
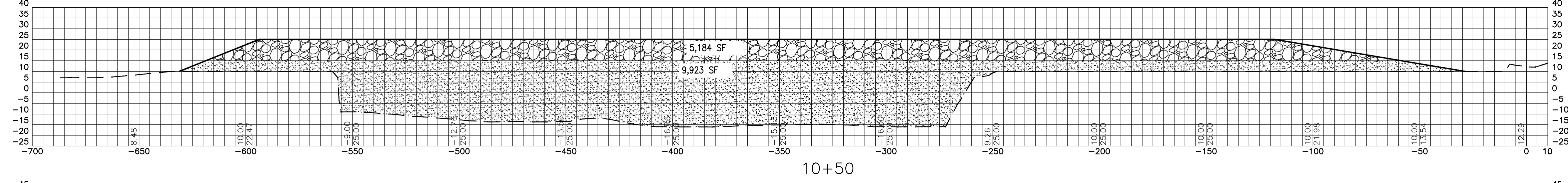
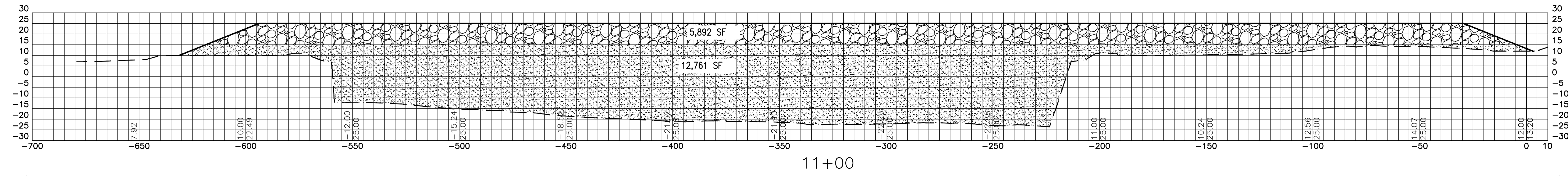
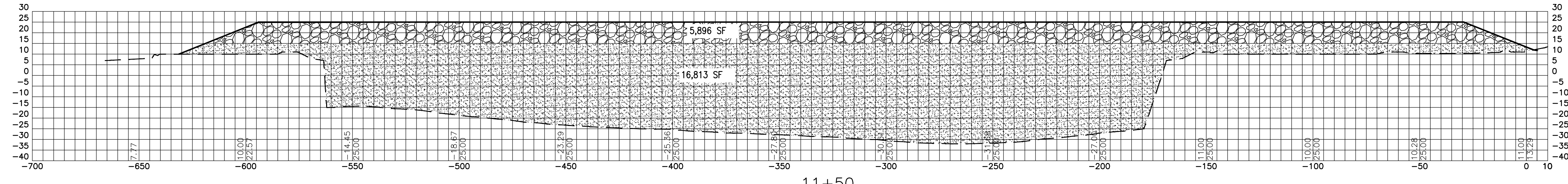
APMT PHASE IV YARD EXPANSION  
FILL AND SURCHARGE PLAN  
AREA C

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: CV7 | REV: A

LEGEND

-  SURCHARGE MATERIAL
-  SELECT SAND FILL
-  FINISH GRADE
-  EXISTING GRADE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
FILL AND SURCHARGE SECTIONS  
STATION 9+50 TO 11+50

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV8 REV: A



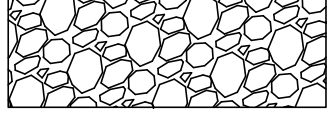
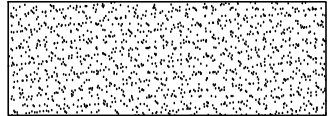


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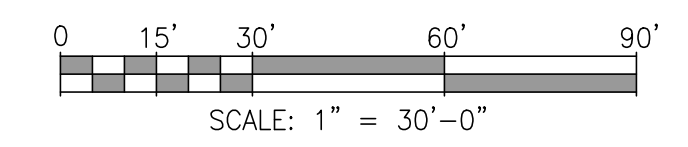
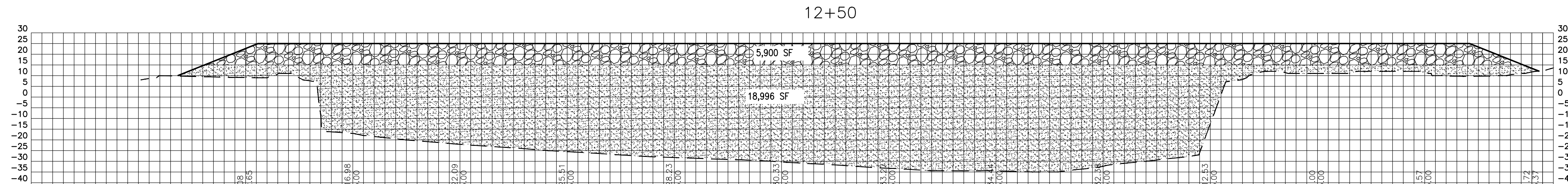
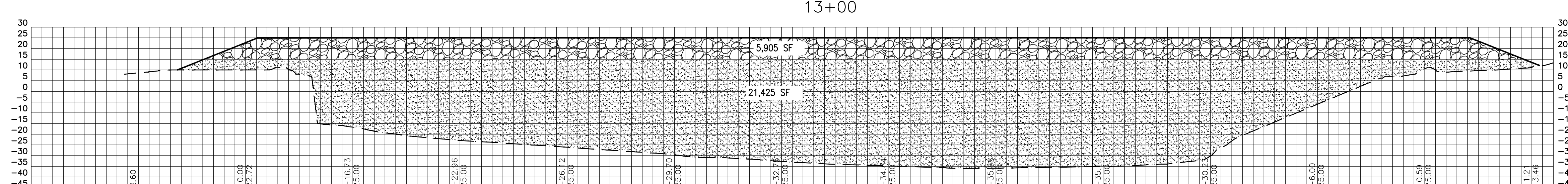
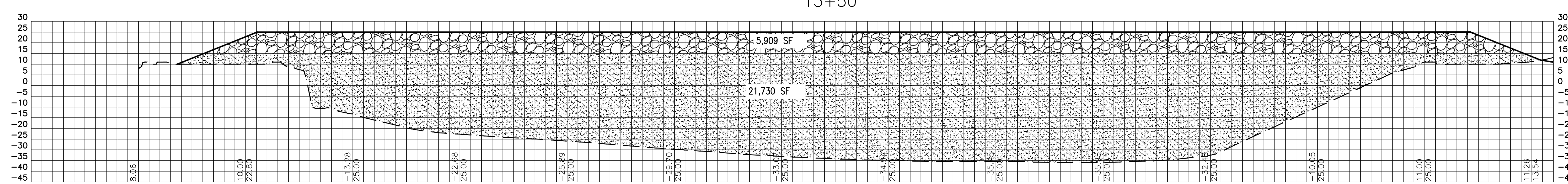
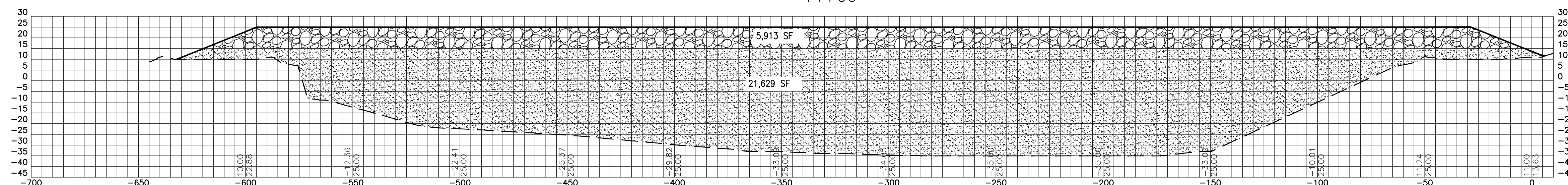
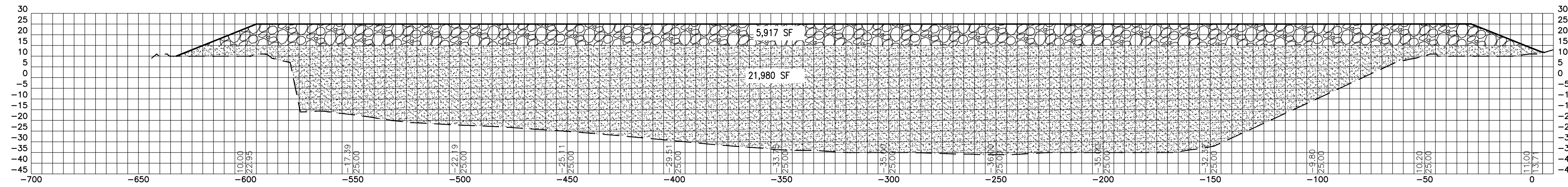
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24
NO.	REVISION	DRAWN	CK'D	APPD	DATE

REFERENCE DRAWINGS

NOTES

LEGEND

-  SURCHARGE MATERIAL
-  SELECT SAND FILL
-  FINISH GRADE
-  EXISTING GRADE



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO.

APMT PHASE IV YARD EXPANSION  
FILL AND SURCHARGE SECTIONS  
STATION 12+00 TO 14+00

FOR: ALABAMA PORT AUTHORITY

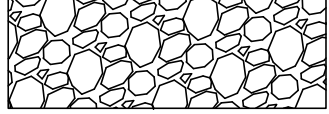
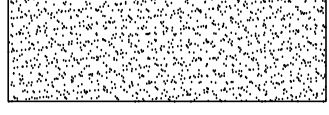


PROJECT NO: 4484 | DWG NO: CV9 | REV: A

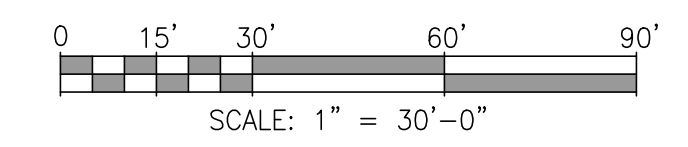
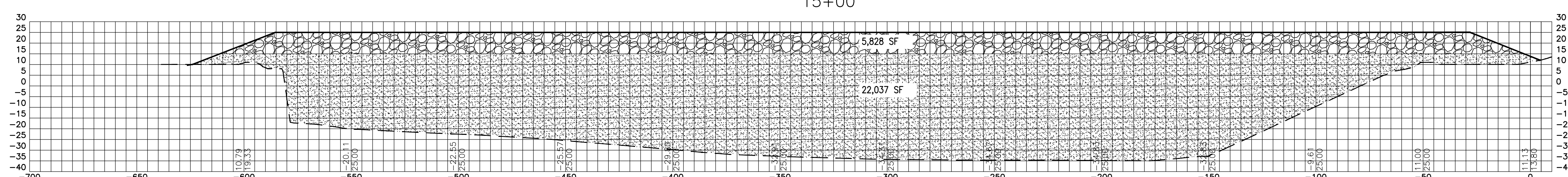
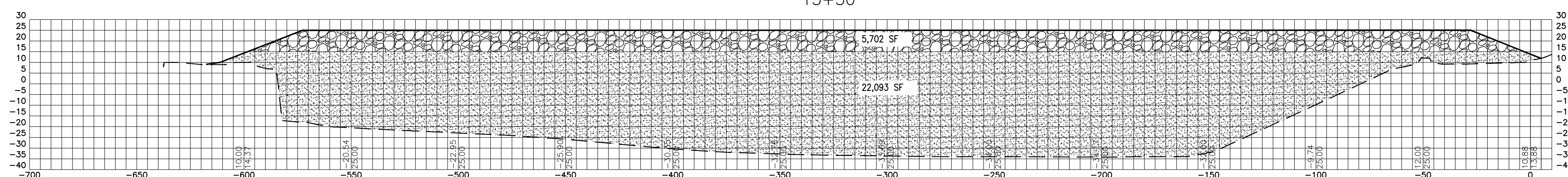
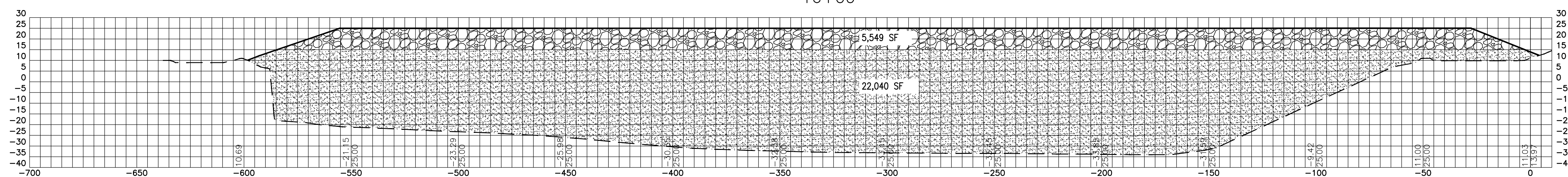
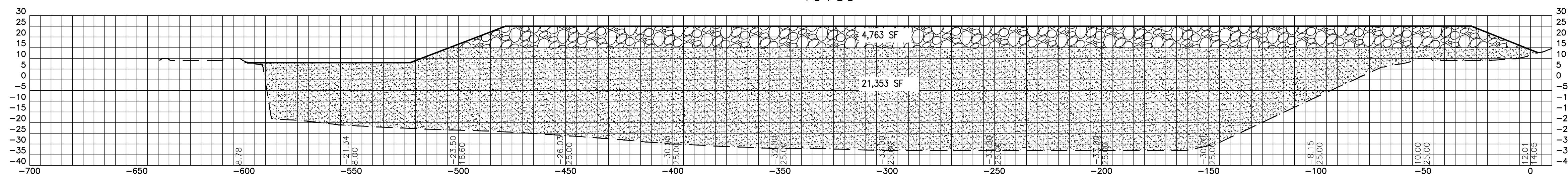
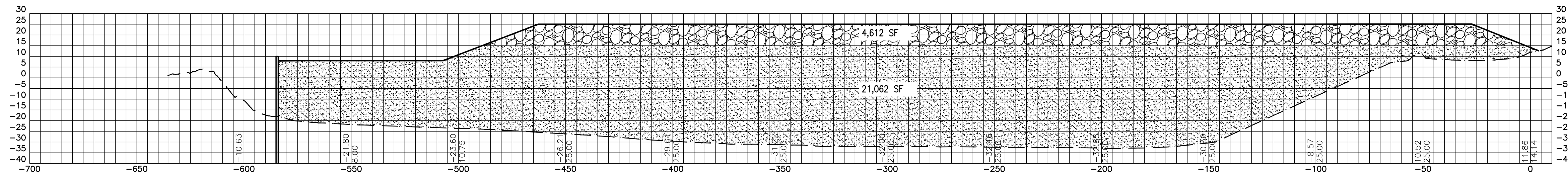


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NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	04/05/24	TSM	JAB	MED
REFERENCE DRAWINGS					

LEGEND

-  SURCHARGE MATERIAL
-  SELECT SAND FILL
-  FINISH GRADE
-  EXISTING GRADE



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
FILL AND SURCHARGE SECTIONS  
STATION 14+50 TO 16+50

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: CV10 | REV: A



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A	ISSUED FOR BID	TSM	JAB	MED	04/05/24
NO.	REVISION	DRAWN	CK'D	APPD	DATE

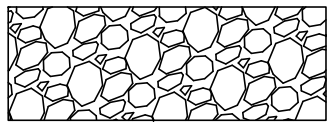
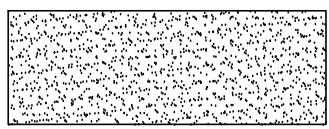

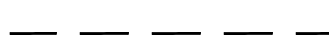
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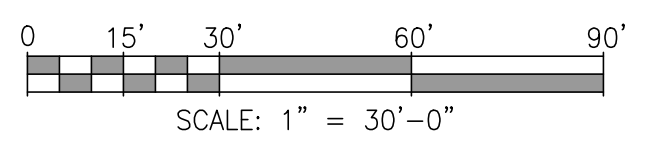
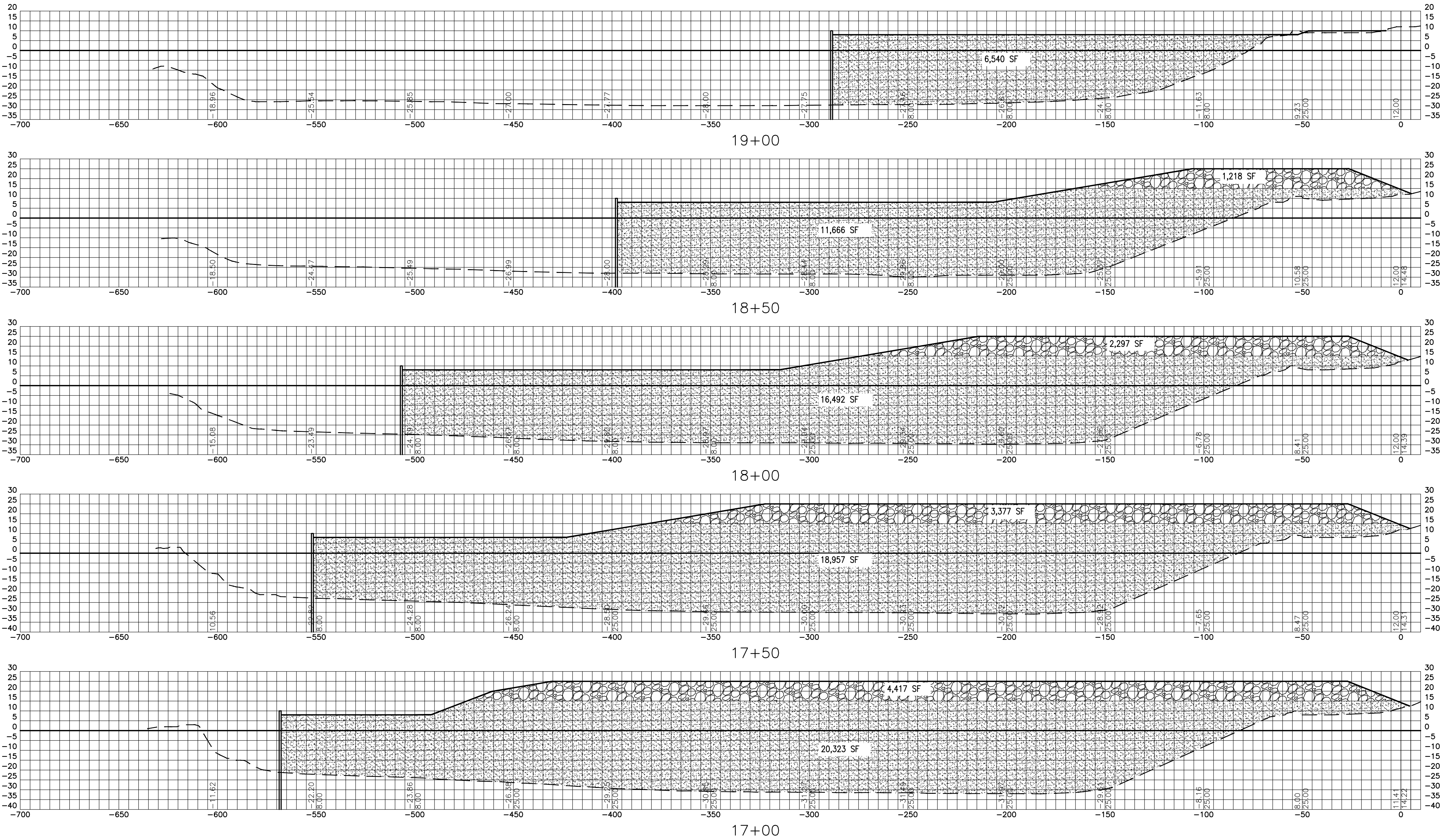
NOTES

VOLUMES COMPUTED WITHIN AREA "C" FROM STA  
9+50 TO 19+00

SURCHARGE VOLUME: 164,893 C.Y.  
SELECT SAND FILL VOLUME: 614,646 C.Y.  
AREA IN FILL: 13 ACRES

LEGEND

-  SURCHARGE MATERIAL
-  SELECT SAND FILL
-  FINISH GRADE
-  EXISTING GRADE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
FILL AND SURCHARGE SECTIONS  
STATION 17+00 TO 19+00

FOR: ALABAMA PORT AUTHORITY

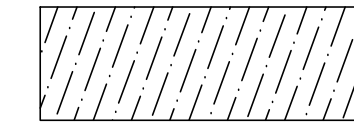
PROJECT NO: 4484 DWG NO: CV11 REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24
REFERENCE DRAWINGS					

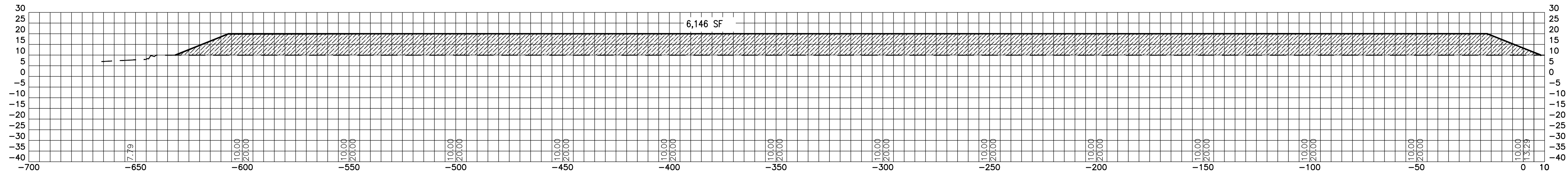
LEGEND



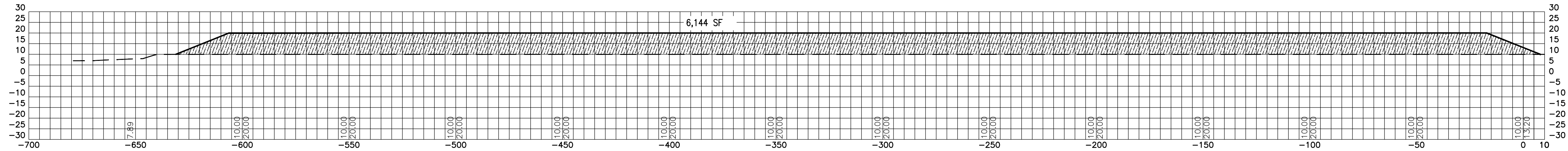
CUT MATERIAL

———— SETTLED SURCHARGE GRADE

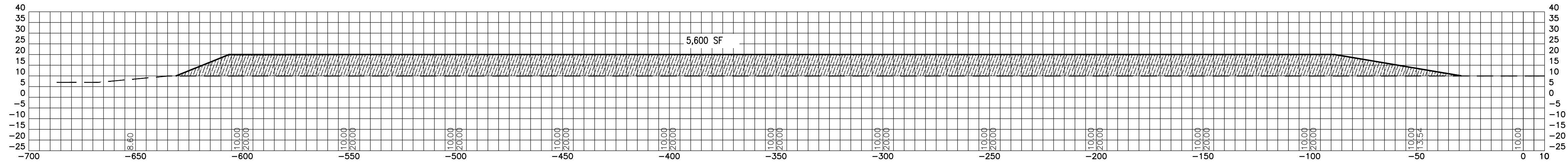
- - - - - ROUGH GRADE



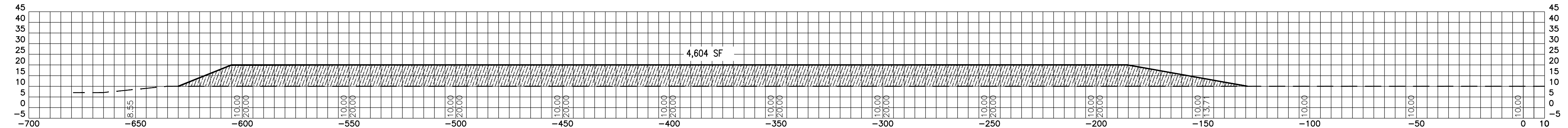
11+50



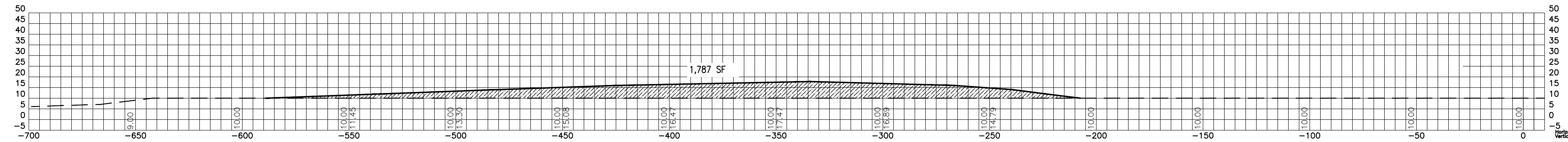
11+00



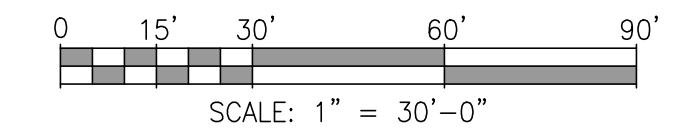
10+50



10+00



9+50



**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SETTLED SURCHARGE AND ROUGH GRADE SECTIONS  
STATION 9+50 TO 11+50

FOR: ALABAMA PORT AUTHORITY

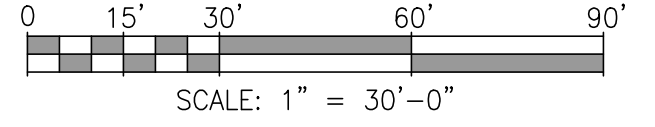
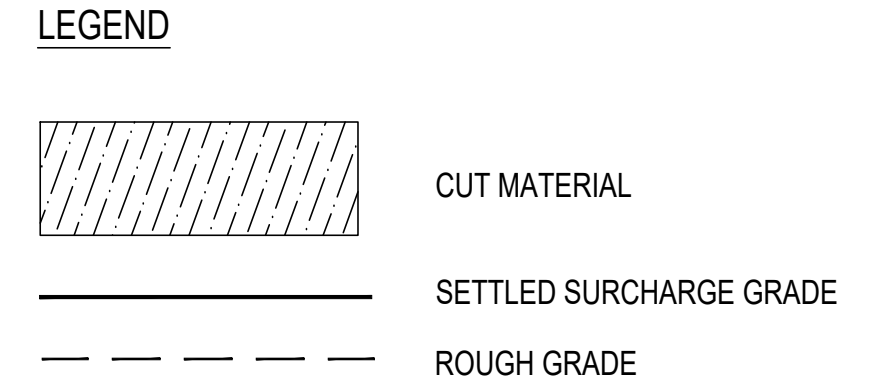
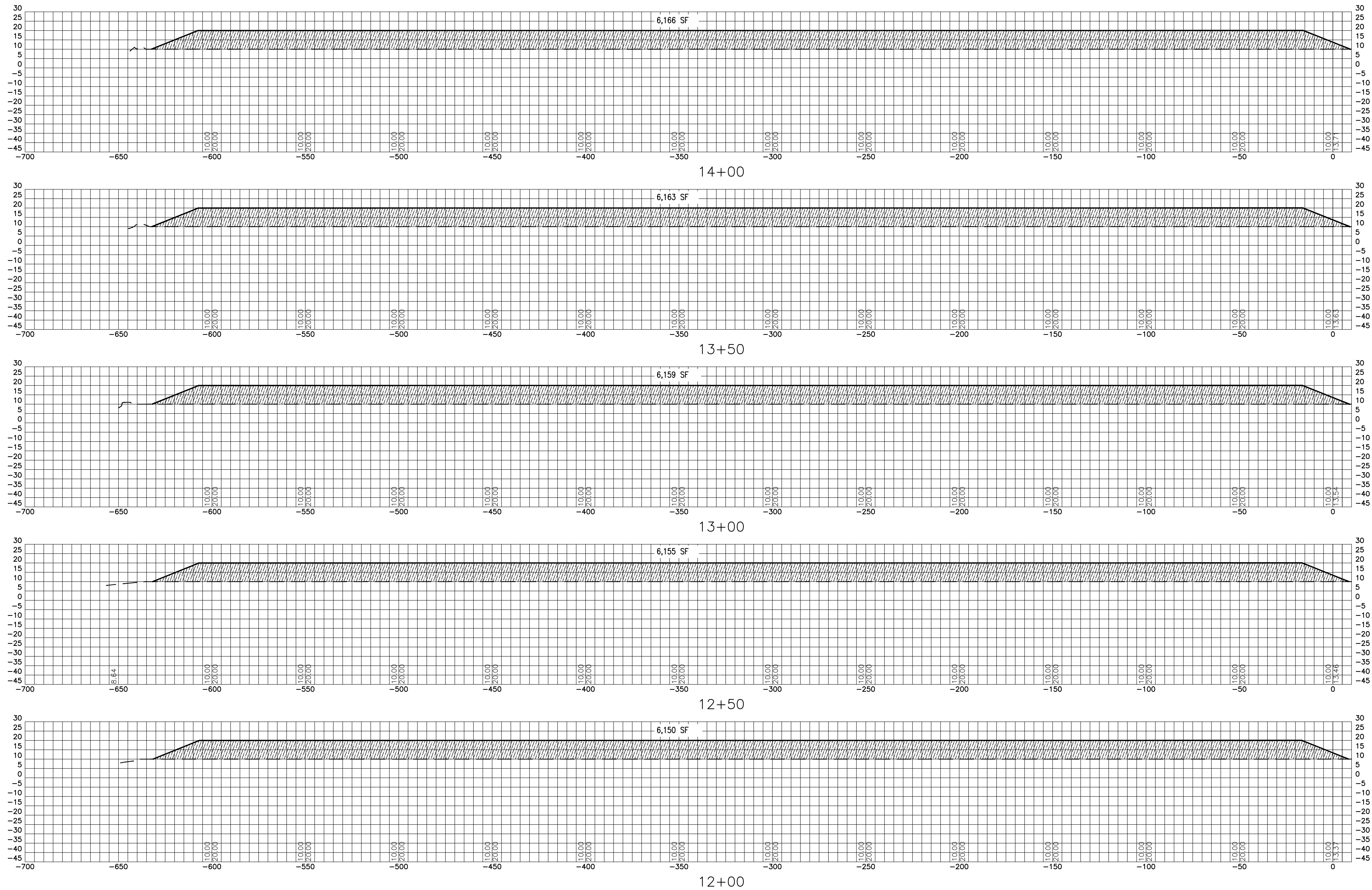
PROJECT NO: 4484 DWG NO: CV12 REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24

REFERENCE DRAWINGS: NO. REVISION DRAWN CK'D APPD DATE DRAWN: TSM CK'D: JAB APPD: MED DATE: 7/31/23 SCALE: 1"=30'



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO.

APMT PHASE IV YARD EXPANSION  
 SETTLED SURCHARGE AND ROUGH GRADE SECTIONS  
 STATION 12+00 TO 14+00

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: CV13 | REV: A



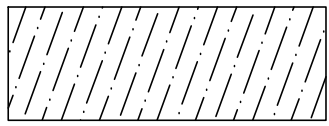

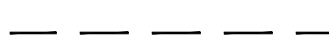
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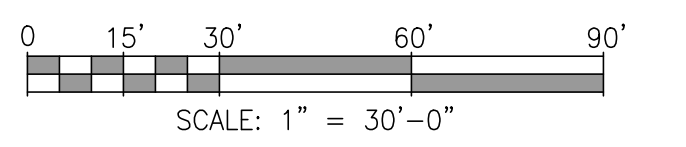
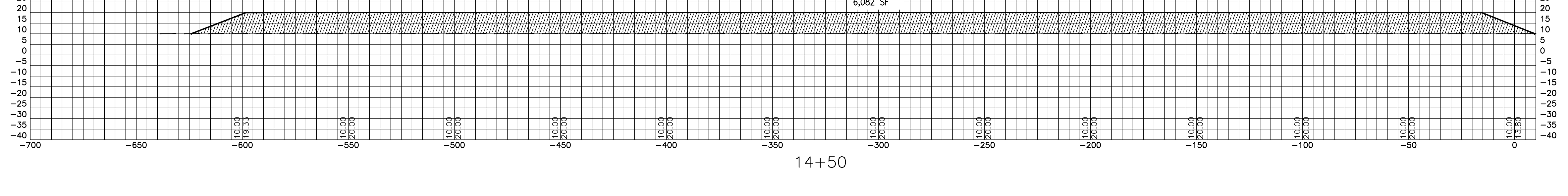
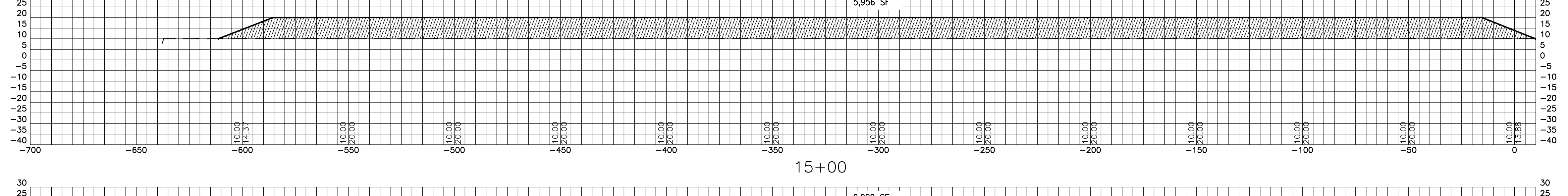
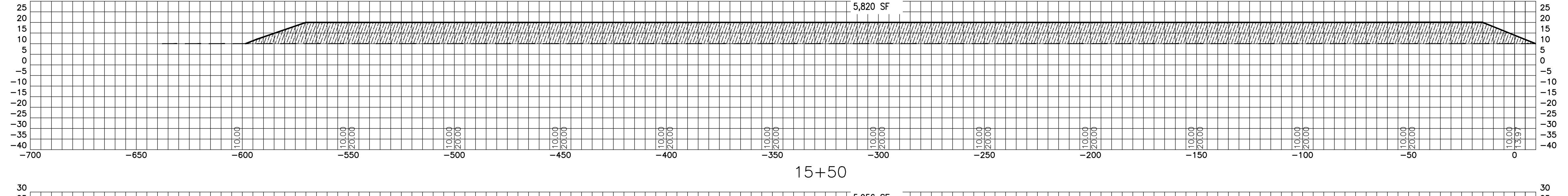
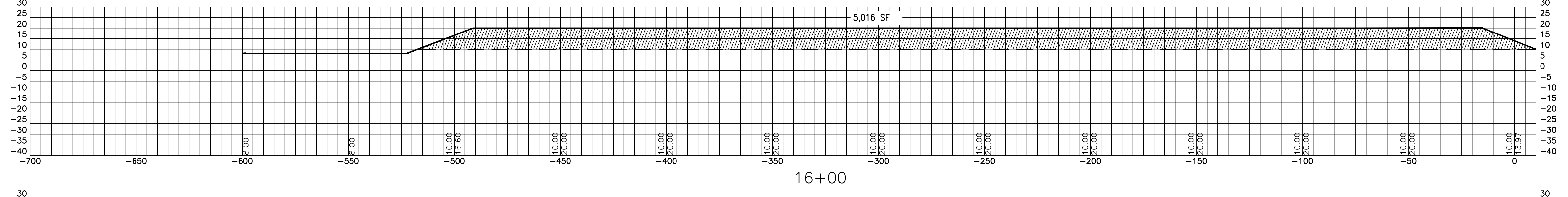
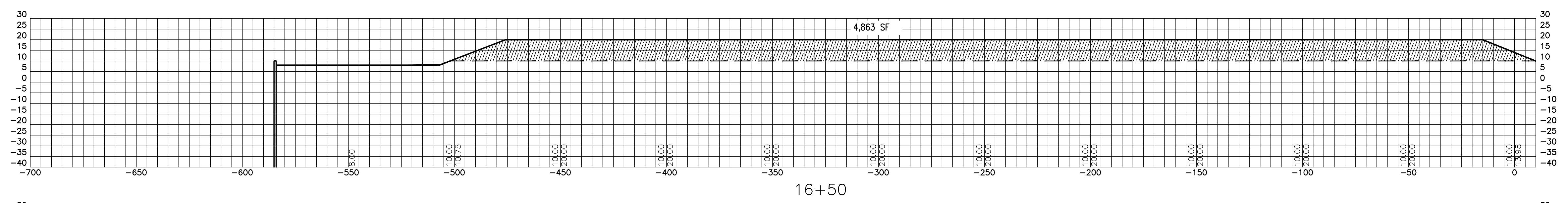
DRAWN: TSM | CK'D: JAB | APP'D: MED | DATE: 7/31/23 | SCALE: 1"=30'

NOTES

NO.	REVISION	DRAWN	CK'D	APP'D	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24
	REFERENCE DRAWINGS				

LEGEND

-  CUT MATERIAL
-  SETTLED SURCHARGE GRADE
-  ROUGH GRADE



ALABAMA PORT AUTHORITY  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SETTLED SURCHARGE AND ROUGH GRADE SECTIONS  
STATION 14+50 TO 16+50

FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4484 DWG NO: CV14 REV: A



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NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24

REFERENCE DRAWINGS




DRAWN: TSM CK'D: JAB APPD: MED DATE: 7/31/23 SCALE: 1"=30'

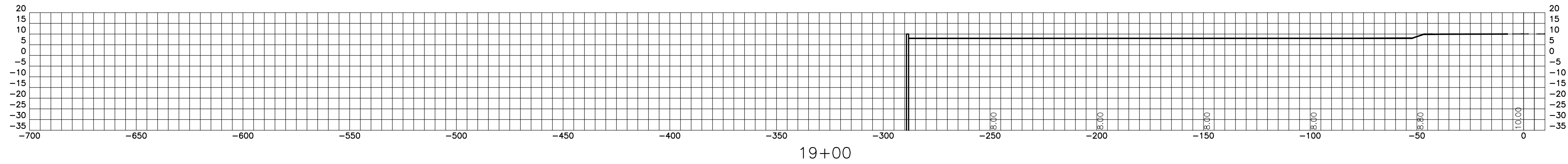


VOLUMES COMPUTED WITHIN AREA "C" FROM STA  
9+50 TO 19+00

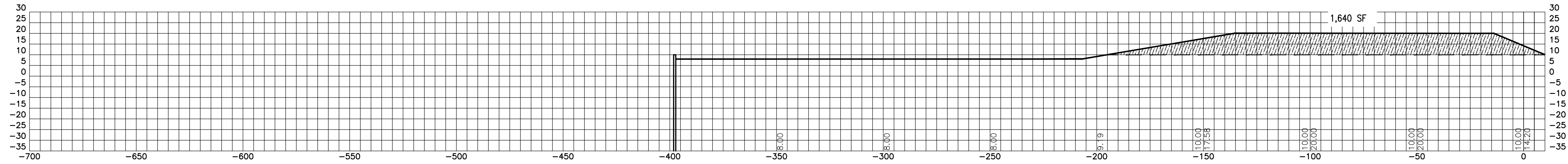
SURCHARGE VOLUME: 177,424 C.Y.  
AREA IN FILL: 13 ACRES

LEGEND

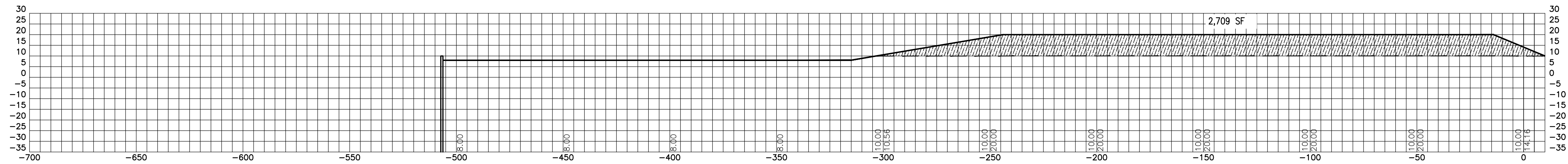
-  CUT MATERIAL
-  SETTLED SURCHARGE GRADE
-  ROUGH GRADE



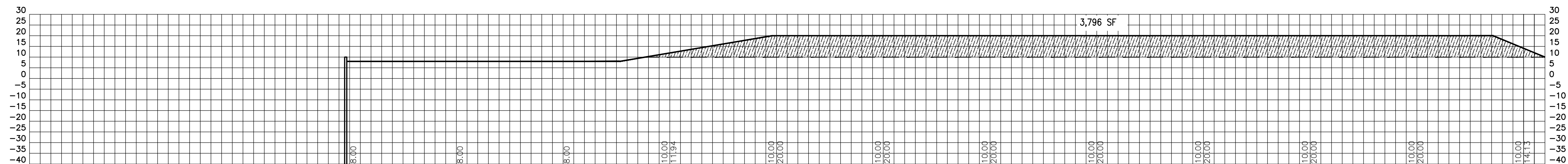
19+00



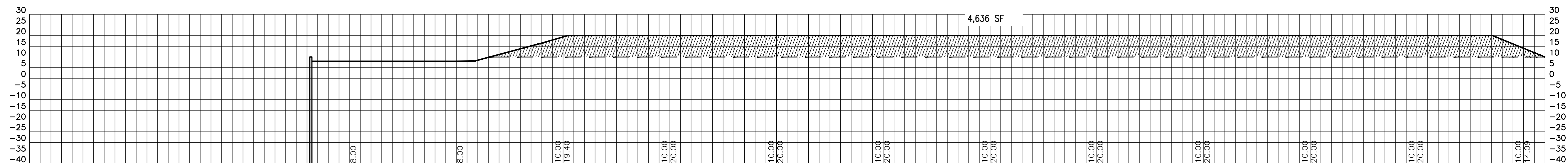
18+50



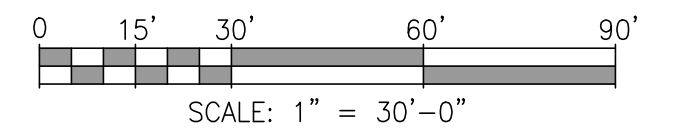
18+00



17+50



17+00



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SETTLED SURCHARGE AND ROUGH GRADE SECTIONS  
STATION 17+00 TO 19+00

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV15 REV: A



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DRAWN: TSM CK'D: JAB APPD: MED DATE: 7/31/23 SCALE: 1"=30'

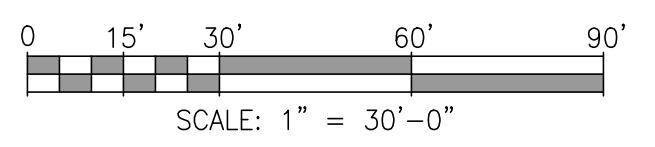
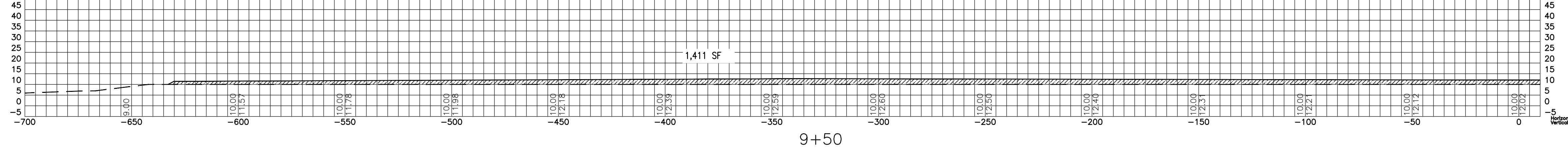
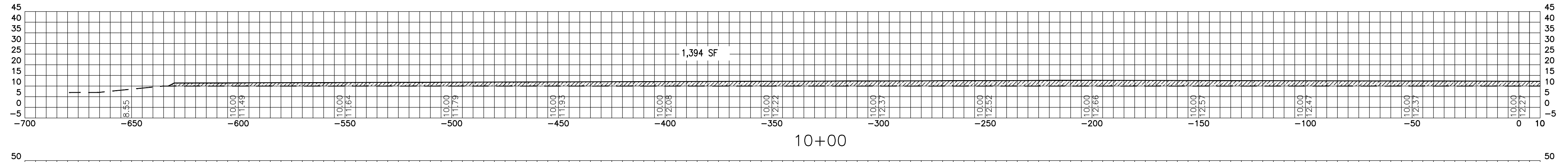
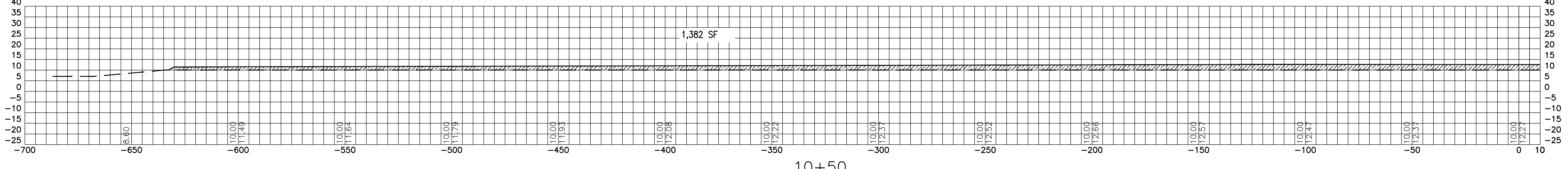
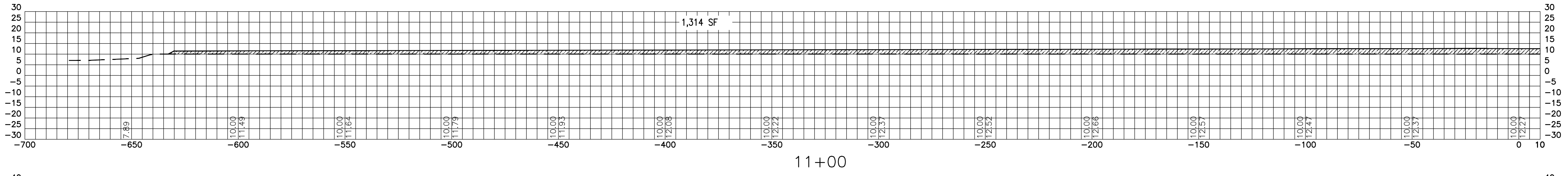
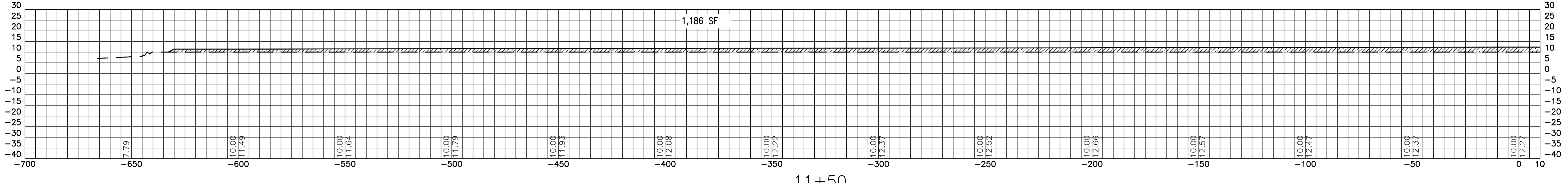
NOTES

REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24

LEGEND

-  FILL MATERIAL
-  SUBGRADE
-  ROUGH GRADE



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SUBGRADE AND ROUGH GRADE SECTIONS  
STATION 9+50 TO 11+50

FOR: ALABAMA PORT AUTHORITY




PROJECT NO: 4484 | DWG NO: CV16 | REV: A

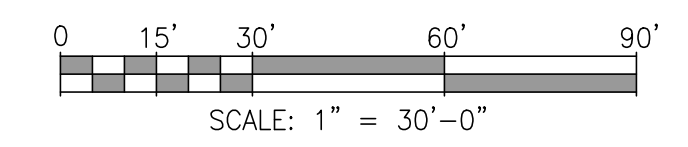
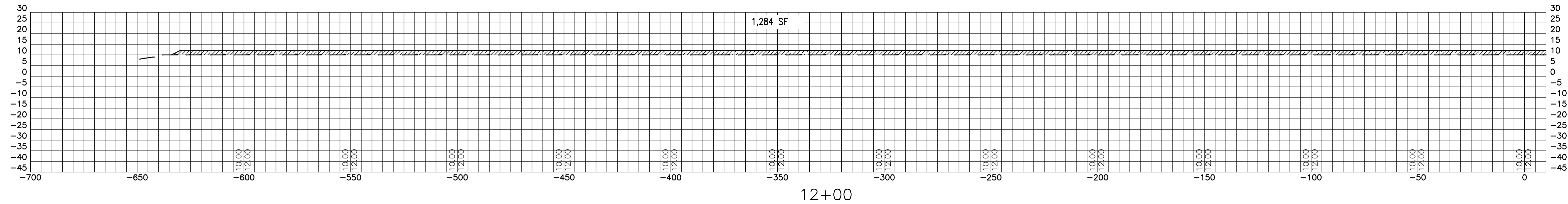
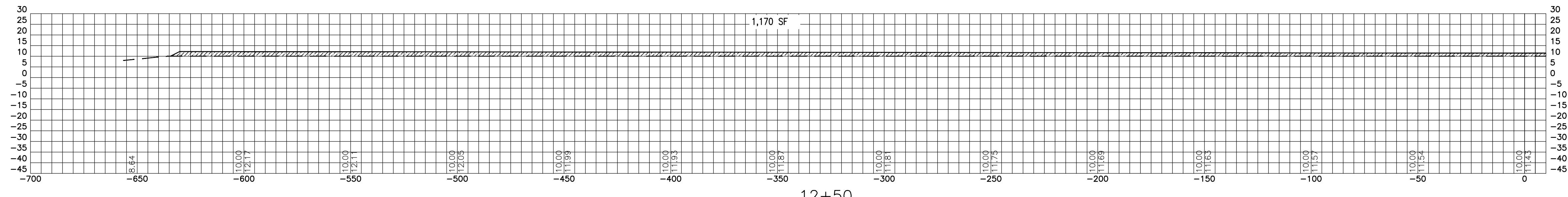
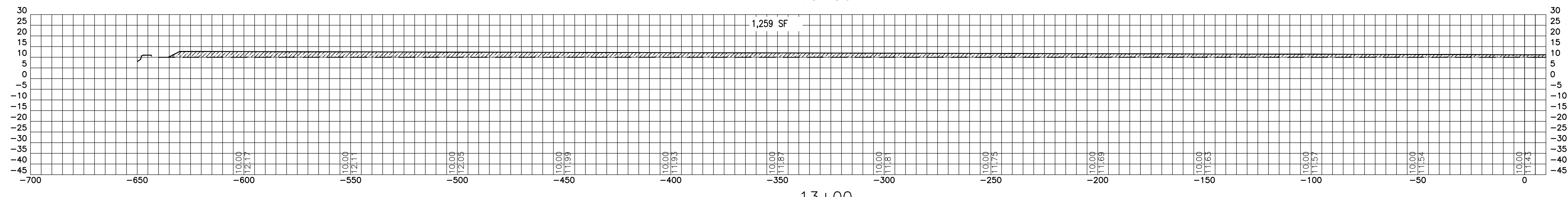
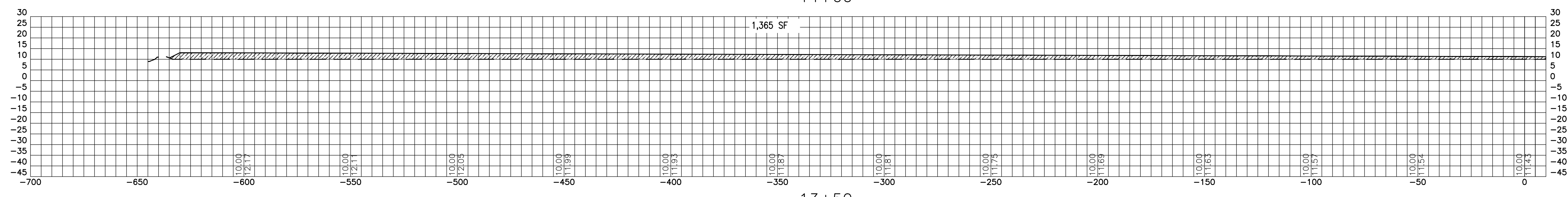
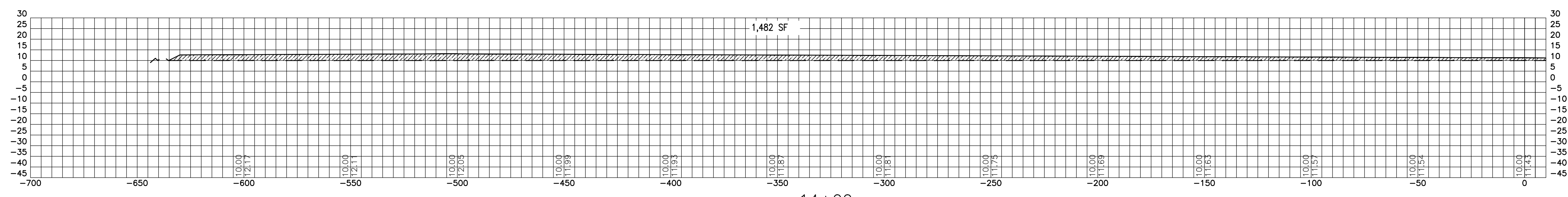


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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24

LEGEND

-  FILL MATERIAL
-  SUBGRADE
-  ROUGH GRADE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SUBGRADE AND ROUGH GRADE SECTIONS  
STATION 12+00 TO 14+00

FOR: ALABAMA PORT AUTHORITY




PROJECT NO: 4484 DWG NO: CV17 REV: A

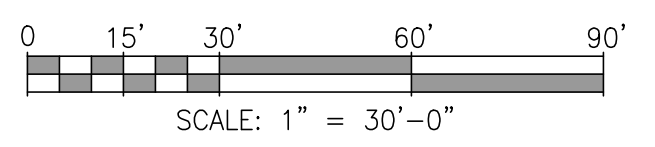
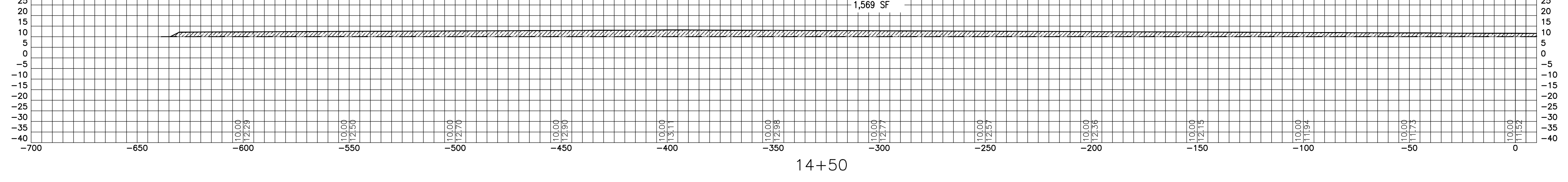
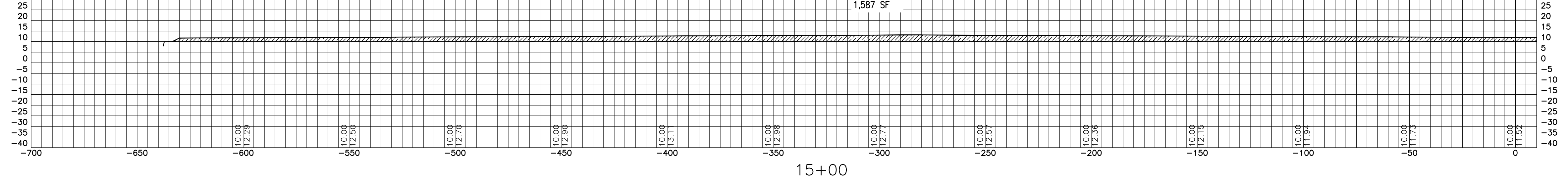
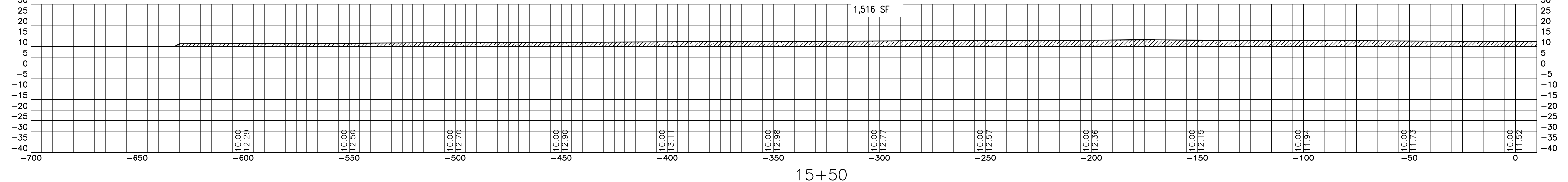
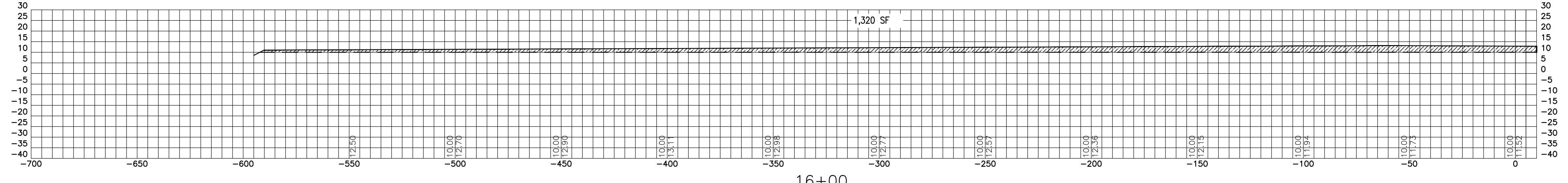
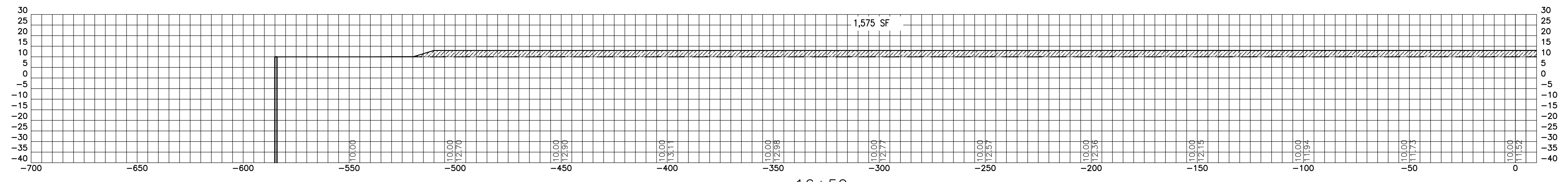


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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24

LEGEND

-  FILL MATERIAL
-  SUBGRADE
-  ROUGH GRADE



ASPA PROJECT NO: 11261 - TASK 1    ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SUBGRADE AND ROUGH GRADE SECTIONS

STATION 14+50 TO 16+50

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484    DWG NO: CV18    REV: A






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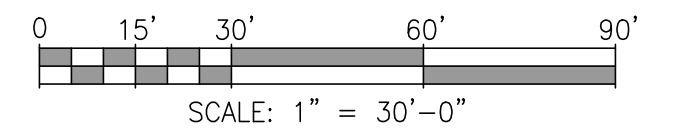
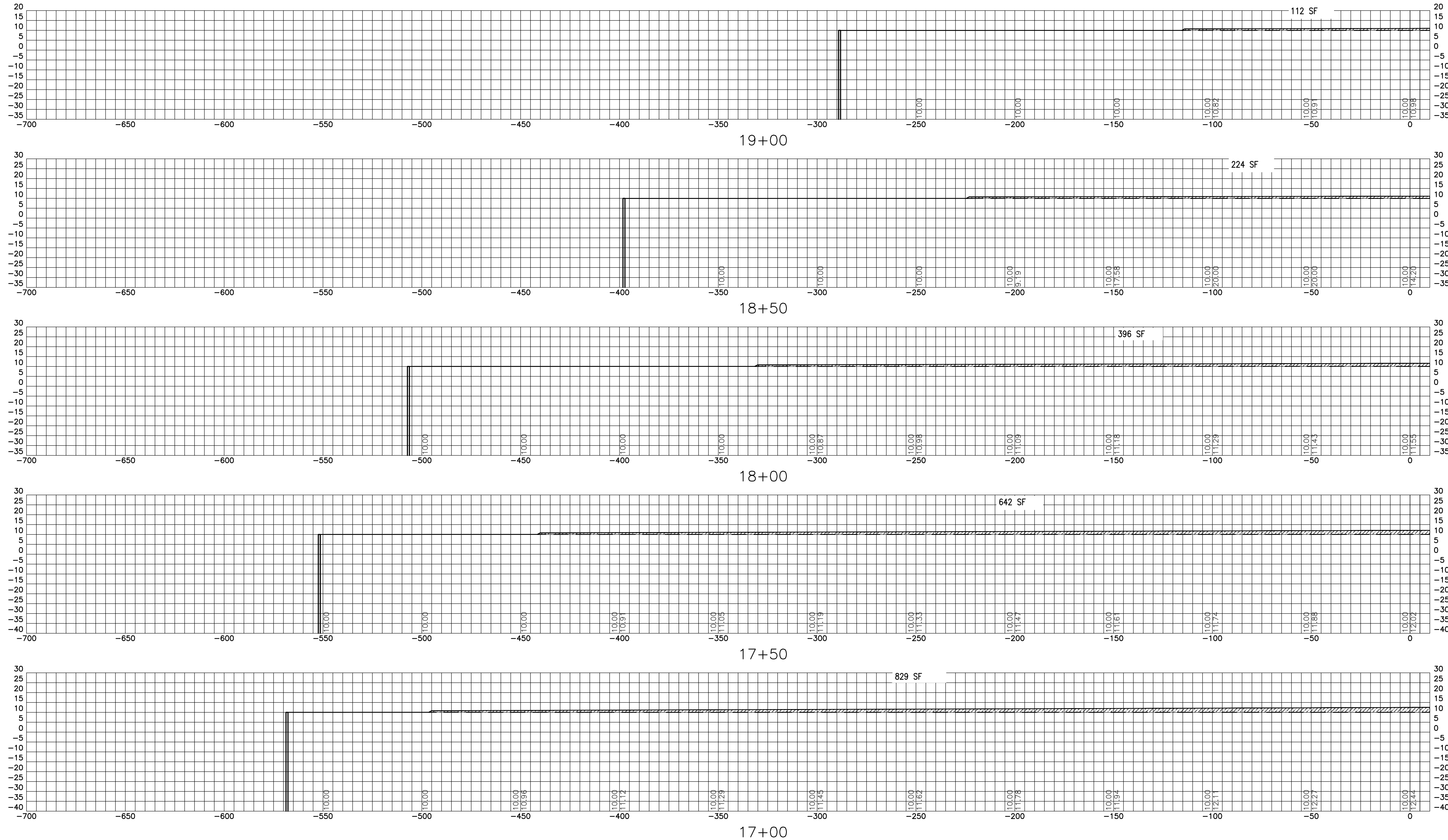
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	TSM	JAB	MED	04/05/24

VOLUMES COMPUTED WITHIN AREA "C" FROM STA  
9+50 TO 19+00

FILL VOLUME: 40,164 C.Y.  
AREA IN FILL: 13.49 ACRES

LEGEND

-  FILL MATERIAL
-  SUBGRADE
-  ROUGH GRADE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DRAWING NO:

APMT PHASE IV YARD EXPANSION  
SUBGRADE AND ROUGH GRADE SECTIONS  
STATION 17+00 TO 19+00

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV19 REV: A

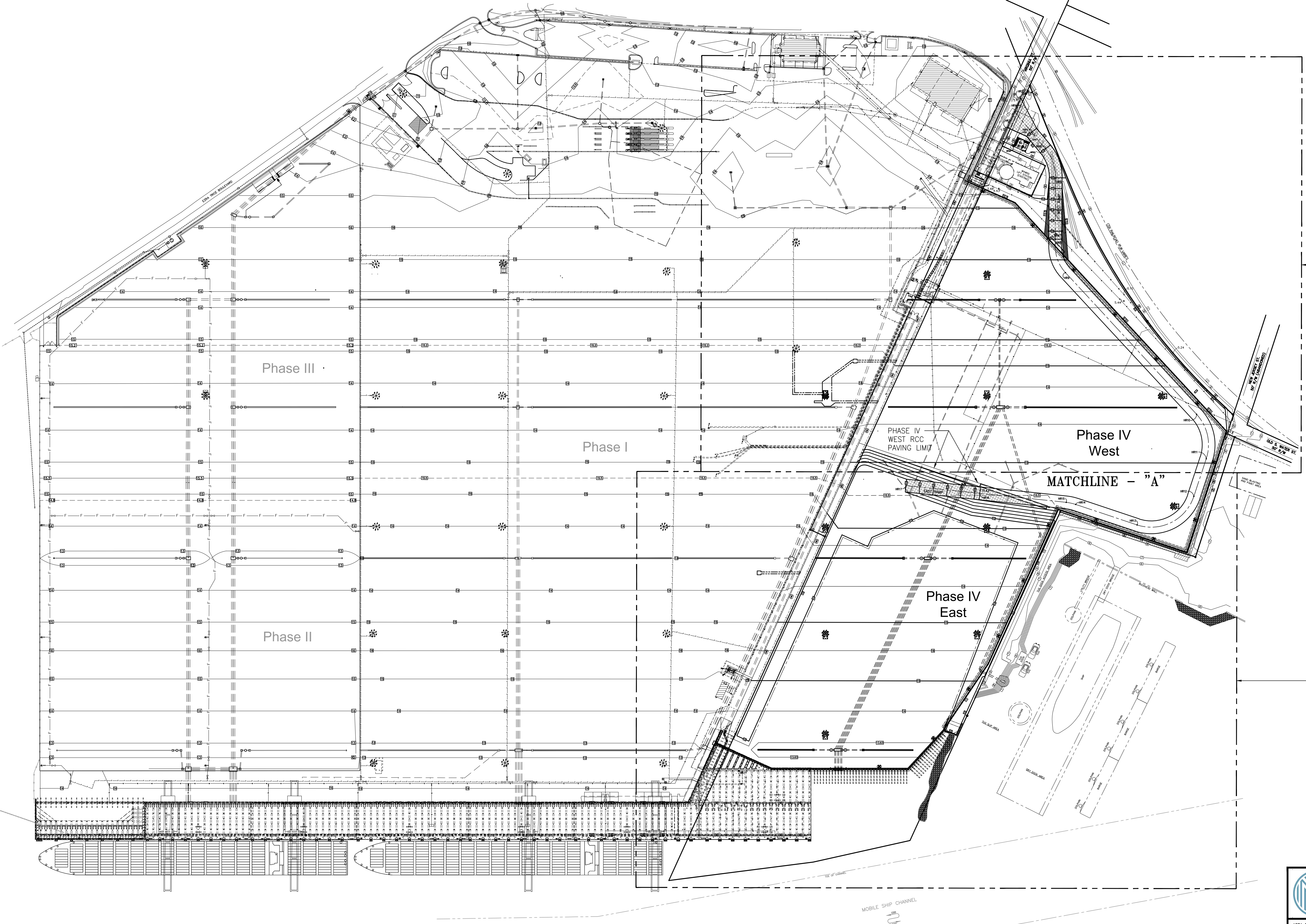
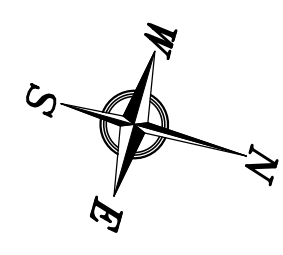


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A	ISSUED FOR BID	TSM	JAB	MED	04/05/24
NO.	REVISION	DRAWN	CK'D	APPD	DATE

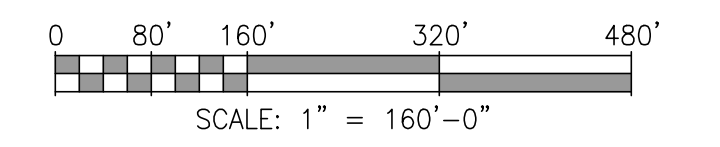
REFERENCE DRAWINGS

NOTES



FOR MESA RETAINING WALL  
PARTIAL PLAN SEE DWG CV21

FOR MESA RETAINING WALL  
PARTIAL PLAN SEE DWG CV22



ASPA PROJECT NO: 11099 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
MESA RETAINING WALL  
OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV20

REV: A

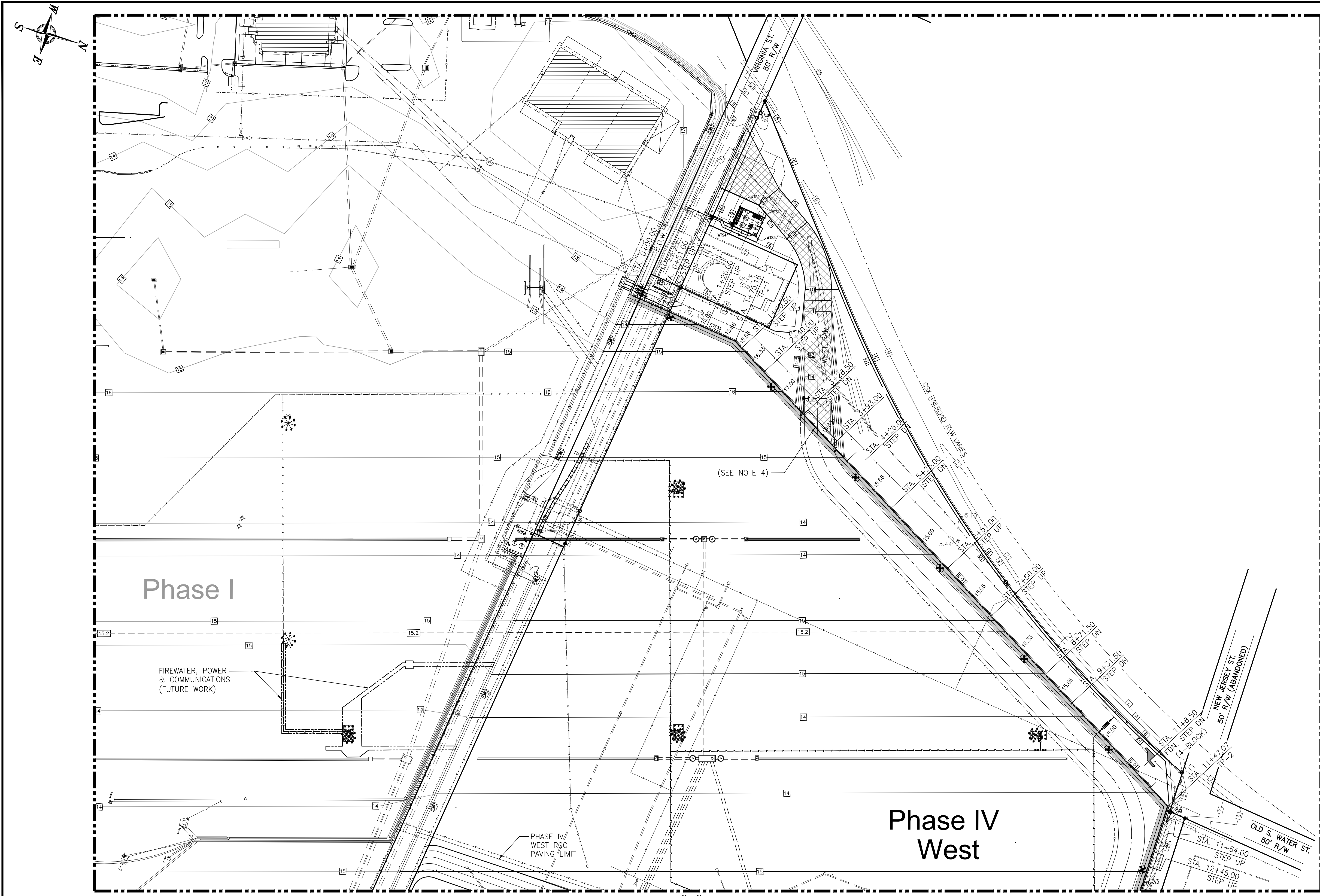


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DRAWN: RST CK'D: MED APPD: RSG DATE: 09/28/22 SCALE: 1"=160'

NOTES	
1.	SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
2.	SEE DRAWING G6 FOR PROJECT LIMITS.

NO.	REVISION	APPD	DATE	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	04/05/24	RST	MED	RSG	04/05/24

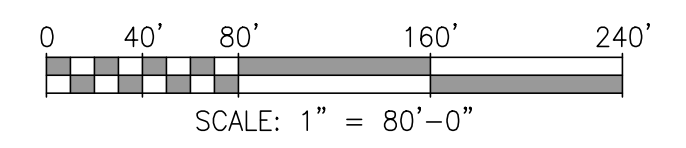


**MESA RETAINING WALL POINT COORDINATE TABLE**

POINT NO. (SEE PLAN)	NORTHING	EASTING
B.O.W.	N.244259.26	E.1798311.35
TP-1	N.244432.79	E.1798335.23
TP-2	N.245265.37	E.1798836.63
TP-3	N.245252.19	E.1799235.77
TP-4	N.244828.84	E.1799218.64
E.O.W./WBO	N.244820.27	E.1799278.03
TP-5	N.244753.18	E.1799743.09
E.O.W./EBO	N.244677.78	E.1799975.65

**LEGEND:**

SYMBOL:	DESCRIPTION:
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	SPECIAL CONTOUR
	EXISTING CONTOUR
	PROPERTY OR STREET R/W BOUNDARY LINE
	RCP OR HDPE STORM DRAIN
	HIGHMAST LIGHT POLE
	PERIMETER LIGHT POLE
	MESA RETAINING WALL W/ STRUCTURAL GEOGRID
	TOP OF MESA RETAINING WALL CAP UNIT ELEVATION BETWEEN STATIONS
	TOP OF MESA WALL SHALL BE STEPPED AS NOTED AT THIS STATION
	TOP OF CONCRETE AT MESA WALL FOUNDATION SHALL BE STEPPED AS NOTED AT STATIONING
	BEGINNING OF MESA RETAINING WALL
	MESA RETAINING WALL TURNING POINT NUMBER
	MESA RETAINING WALL CONSTRUCTION SLIP JOINT
	END OF MESA RETAINING WALL
	UNKNOWN U/G PIPING & ELECTRICAL UTILITIES ARE LOCATED INSIDE LEASE BOUNDARY IN THIS AREA NEAR MESA WALL FOUNDATION & EXISTING SECURITY FENCE. (FIELD LOCATE ALL LINES & EXCAVATE WITH CAUTION)



MATCHLINE - "A" SEE DWG. CV22

Phase I

Phase IV West

FIREWATER, POWER & COMMUNICATIONS (FUTURE WORK)

PHASE IV WEST R/C PAVING LIMIT

(SEE NOTE 4)

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWINGS CV23 THRU CV29 FOR MESA RETAINING WALL SECTIONS AND DETAILS.
  - COORDINATES SHOWN IN MESA RETAINING WALL POINT COORDINATE TABLE ARE LOCATED AT FRONT FACE OF MESA RETAINING WALL.
  - SEE WEST RAMP TO MESA RETAINING WALL INTERFACE CROSS SECTION A-A ON DWG G12 FOR PHASED MESA RETAINING WALL AND RAMP WORK IN THIS AREA.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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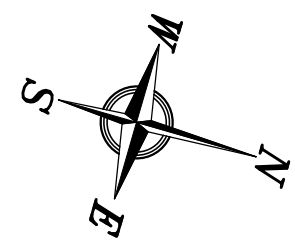
DRAWN: RST CK'D: MED APPD: RSG DATE: 09/28/22 SCALE: 1"=80'

ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
MESA RETAINING WALL  
PARTIAL PLAN (SHT. 1 OF 2)

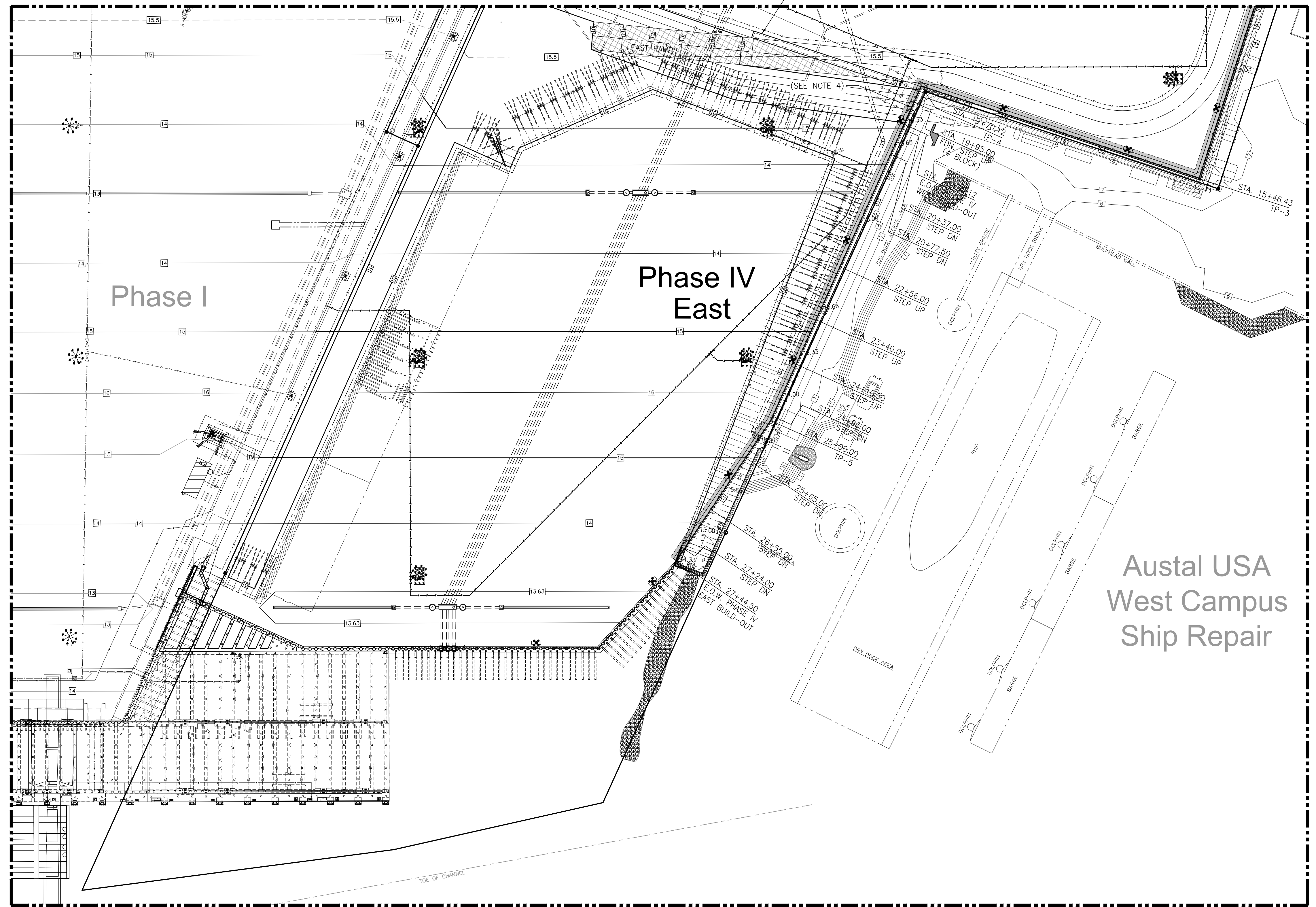
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV21 REV: A

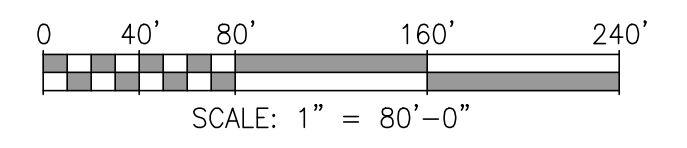


MATCHLINE - "A" SEE DWG. CV21

PHASE IV WEST RCC PAVING LIMIT



Austal USA  
West Campus  
Ship Repair



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWING CV21 FOR LEGEND AND MESA RETAINING WALL POINT COORDINATE TABLE.
  - SEE DRAWINGS CV23 THRU CV29 FOR MESA RETAINING WALL SECTIONS AND DETAILS.
  - SEE EAST RAMP TO MESA RETAINING WALL INTERFACE CROSS SECTION ON DWG G13 FOR PHASED MESA RETAINING WALL AND RAMP WORK IN THIS AREA.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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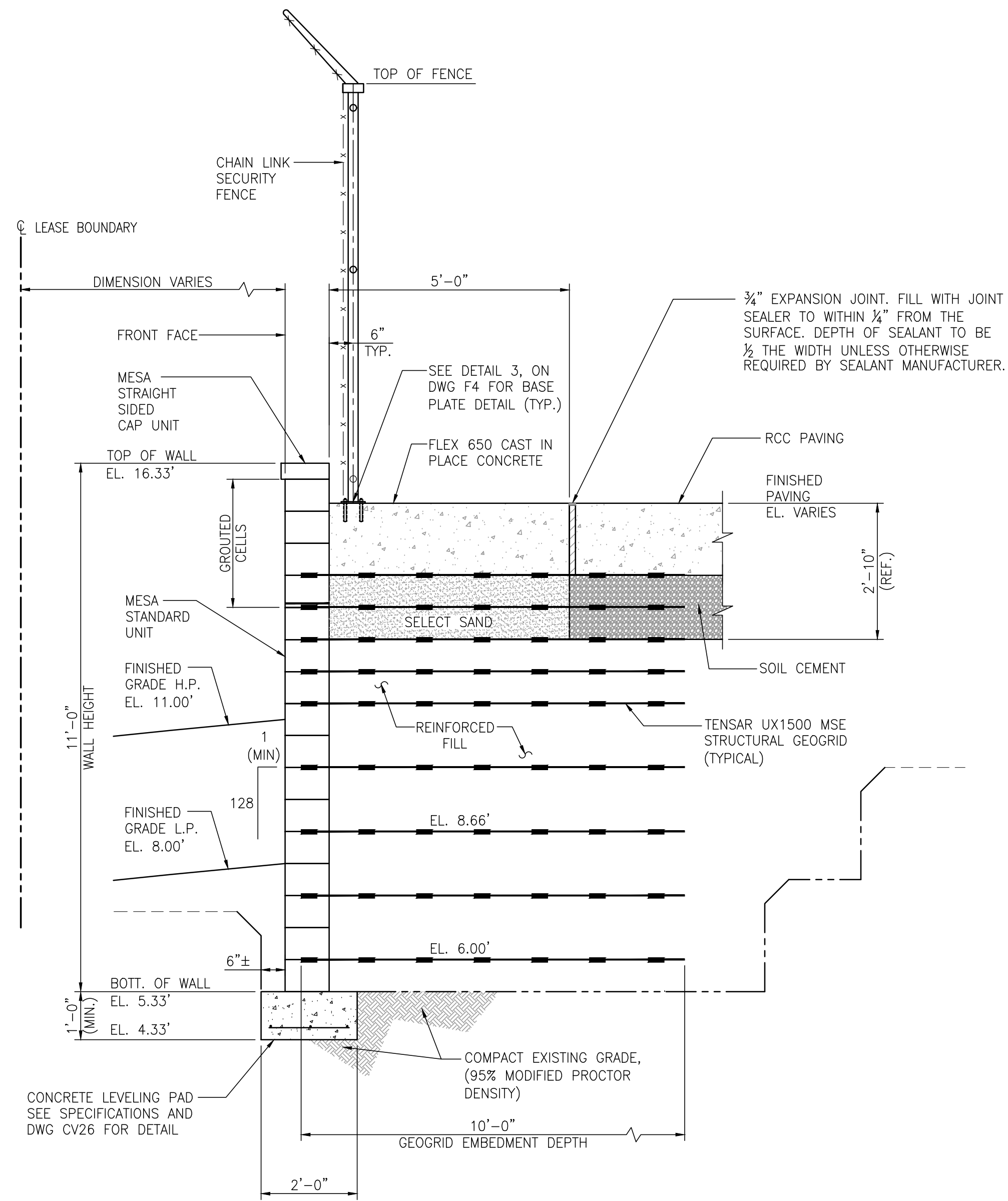
DRAWN: RST CK'D: MED APPD: RSG DATE: 09/28/22 SCALE: 1"=80'

APMT PHASE IV YARD EXPANSION  
MESA RETAINING WALL  
PARTIAL PLAN (SHT. 2 OF 2)

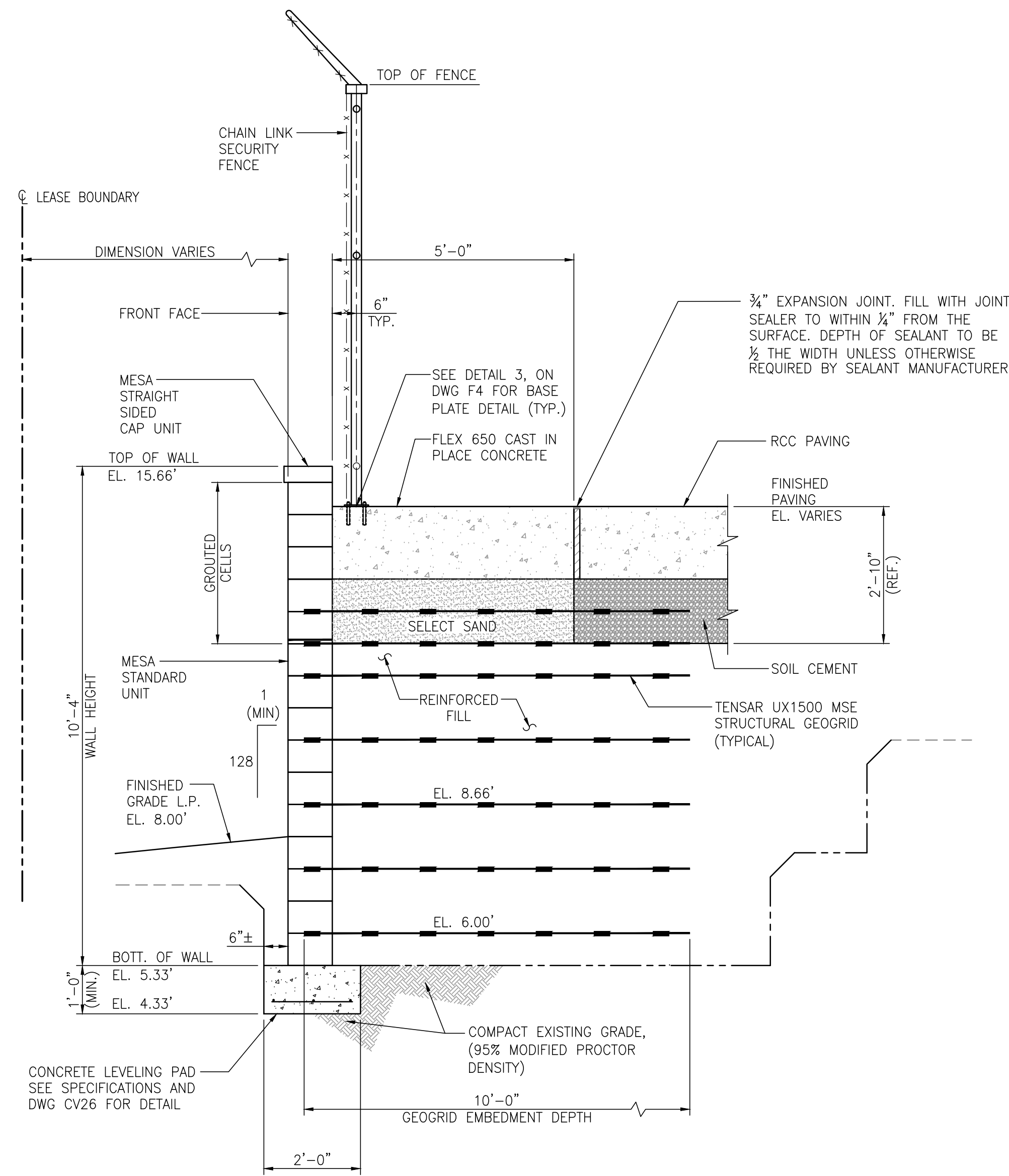
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV22 REV: A

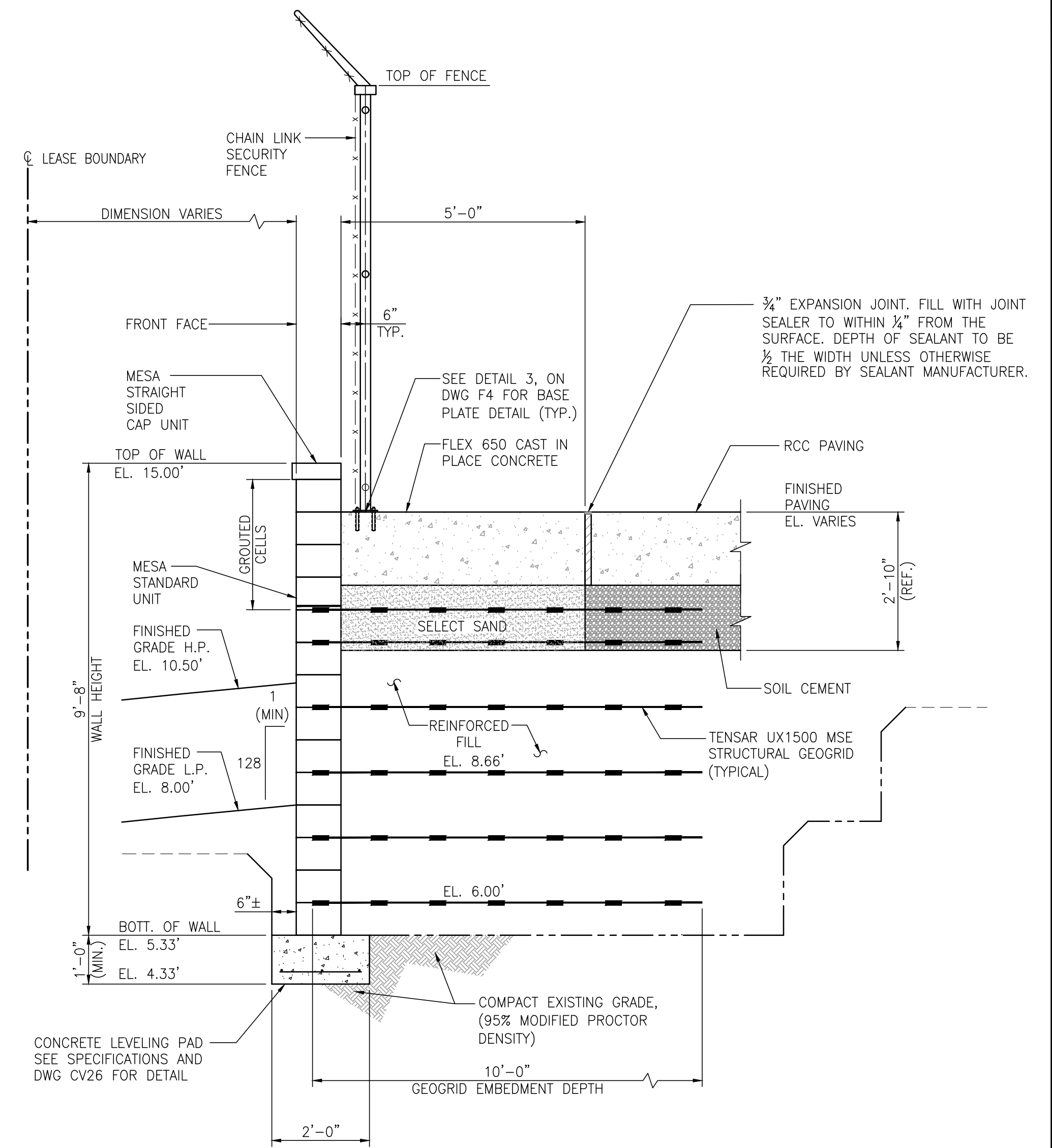




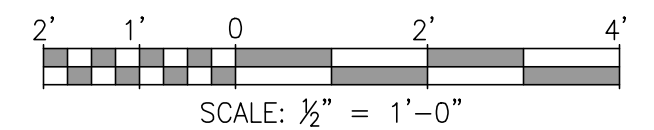
**WALL SECTION - STA. 12+45.00 THRU STA. 19+95.00**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21)



**WALL SECTION - STA. 11+64.00 THRU STA. 12+45.00**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21)



**WALL SECTION - STA. 11+8.50 THRU STA. 11+64.00**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES	
1.	SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

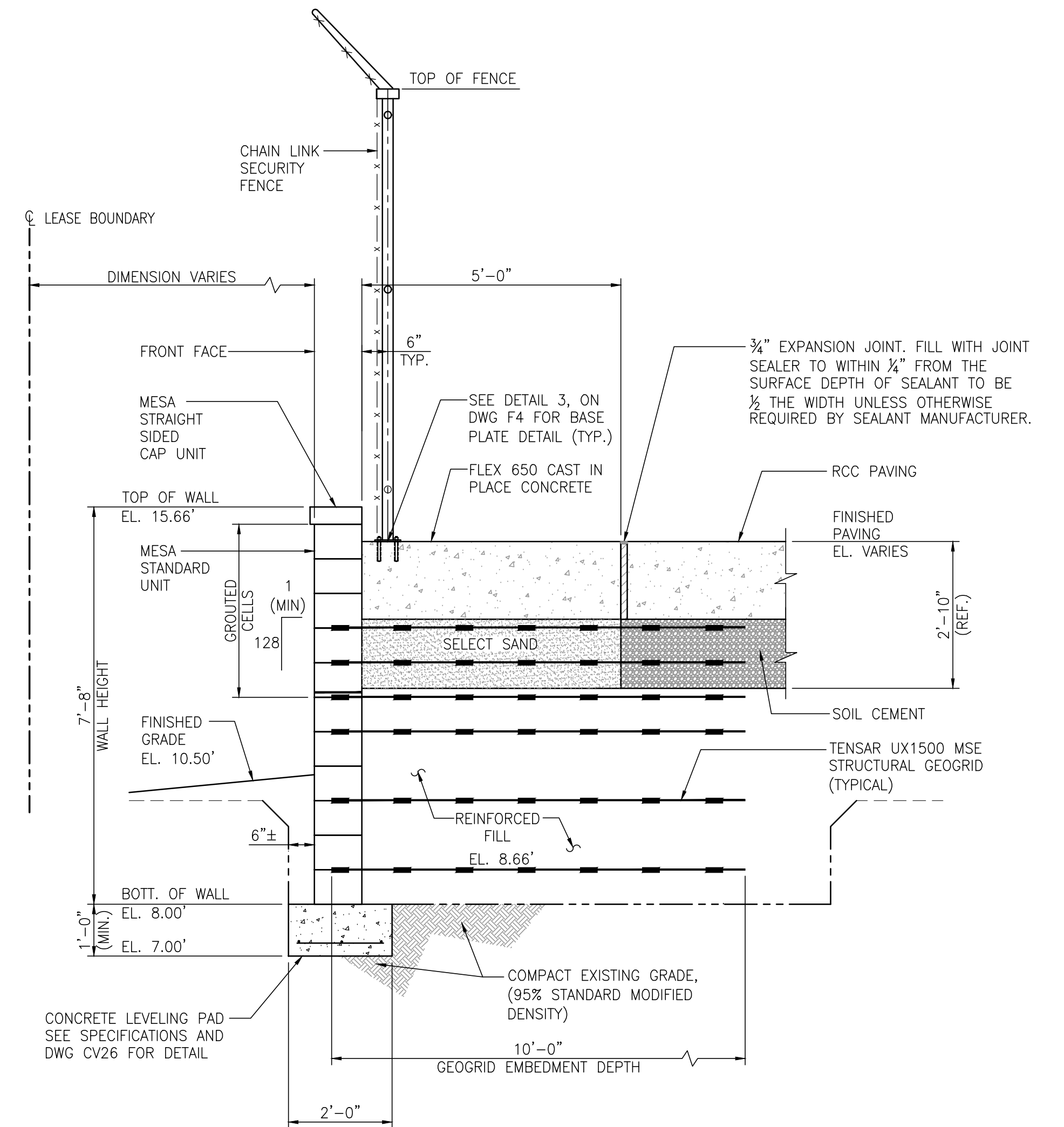
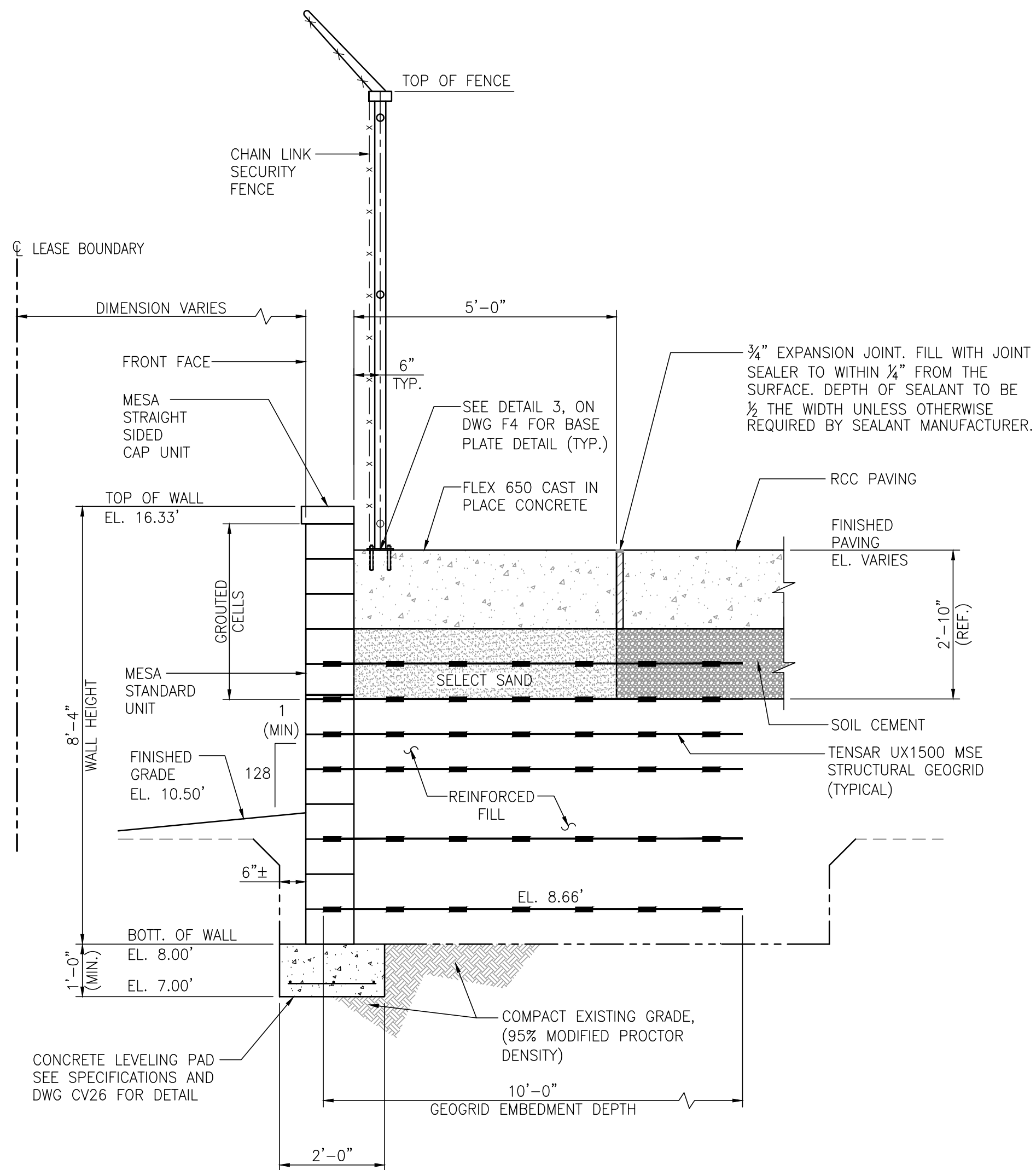
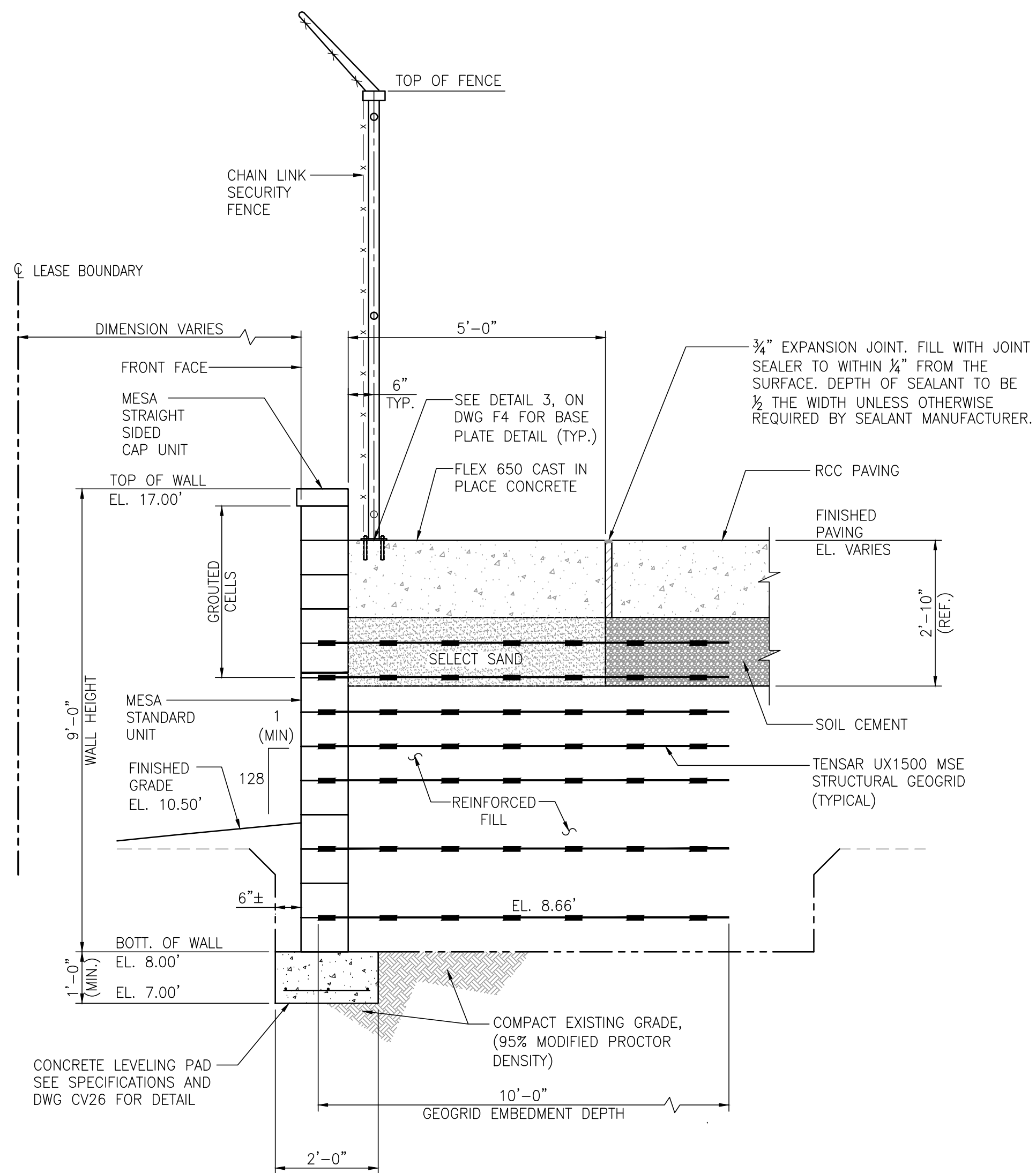
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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DRAWN: RST CK'D: MED APPD: RSG DATE: 02/03/23 SCALE: 1/2"=1'-0"

APMT PHASE IV YARD EXPANSION	
MESA RETAINING WALL	
WALL SECTIONS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: CV23
REV: A	

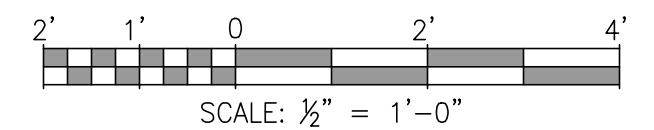


**WALL SECTION - STA. 24+10.50 THRU STA. 24+93.00**  
**WALL SECTION - STA. 24+40.00 THRU STA. 3+28.50**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21 & CV22)

**WALL SECTION - STA. 24+93.00 THRU STA. 25+65.00**  
**WALL SECTION - STA. 23+40.00 THRU STA. 24+10.50**  
**WALL SECTION - STA. 19+95.00 THRU STA. 20+37.00**  
**WALL SECTION - STA. 7+50.00 THRU STA. 8+71.50**  
**WALL SECTION - STA. 3+28.50 THRU STA. 4+26.00**  
**WALL SECTION - STA. 1+90.50 THRU STA. 2+40.00**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21 & CV22)

NOTE:  
 TOP OF WALL ELEVATION TO BE 12.67'  
 BETWEEN STA. 3+28.50 THRU 3+93.00  
 UNTIL REMOVAL OF THE WEST RAMP. AFTER  
 REMOVAL OF WEST RAMP, THE TOP OF WALL  
 ELEVATION TO BE 16.33'

**WALL SECTION - STA. 25+65.00 THRU STA. 26+55.00**  
**WALL SECTION - STA. 22+56.00 THRU STA. 23+40.00**  
**WALL SECTION - STA. 20+37.00 THRU STA. 20+77.50**  
**WALL SECTION - STA. 8+71.50 THRU STA. 9+31.50**  
**WALL SECTION - STA. 6+51.00 THRU STA. 7+50.00**  
**WALL SECTION - STA. 4+26.00 THRU STA. 5+25.00**  
**WALL SECTION - STA. 1+26.00 THRU STA. 1+90.50**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21 & CV22)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
 MESA RETAINING WALL  
 WALL SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV24 REV: A

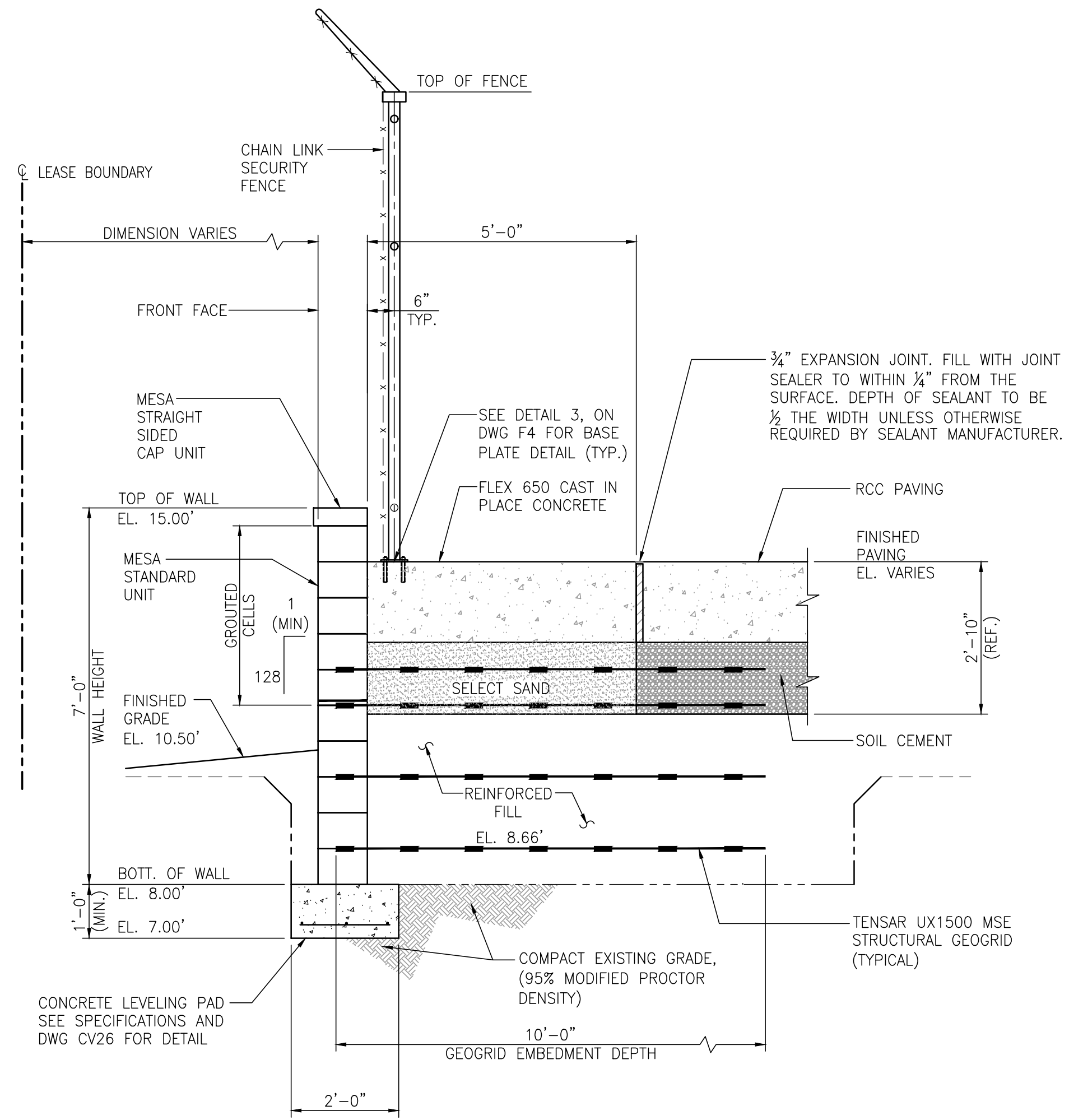


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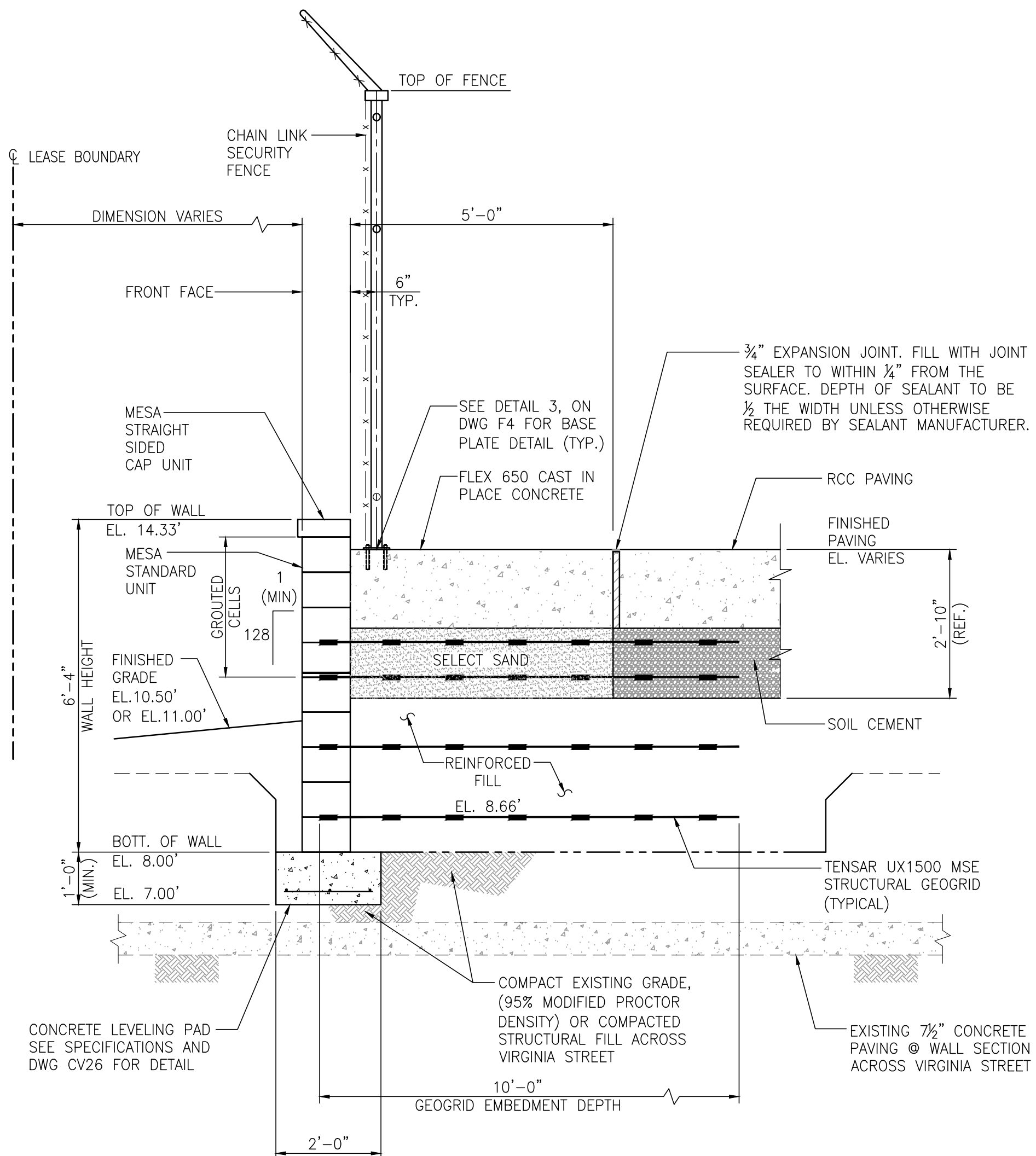
DRAWN: RST CK'D: MED APPD: RSG DATE: 02/03/23 SCALE: 1/2"=1'-0"

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

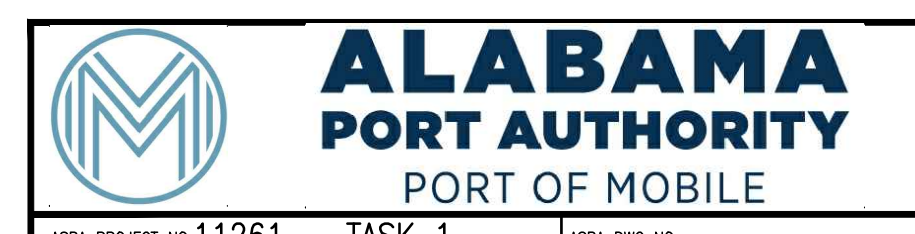
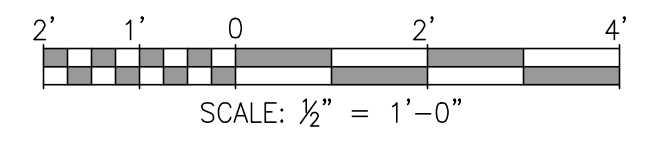
NOTES  
 1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.



**WALL SECTION - STA. 26+55.00 THRU STA. 27+24.00**  
**WALL SECTION - STA. 20+77.50 THRU STA. 22+56.00**  
**WALL SECTION - STA. 9+31.50 THRU STA. 11+8.50**  
**WALL SECTION - STA. 5+25.00 THRU STA. 6+51.00**  
**WALL SECTION - STA. 0+51.00 THRU STA. 1+26.00**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21 & CV22)



**WALL SECTION - STA. 27+24.00 THRU STA. 27+44.50 (E.O.W.)**  
**WALL SECTION - STA. 0+00.00 (B.O.W.) THRU STA. 0+51.00**  
 1/2"=1'-0" (FOR WALL SECTION LOCATIONS SEE STATIONS ON DWG. CV21 & CV22)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

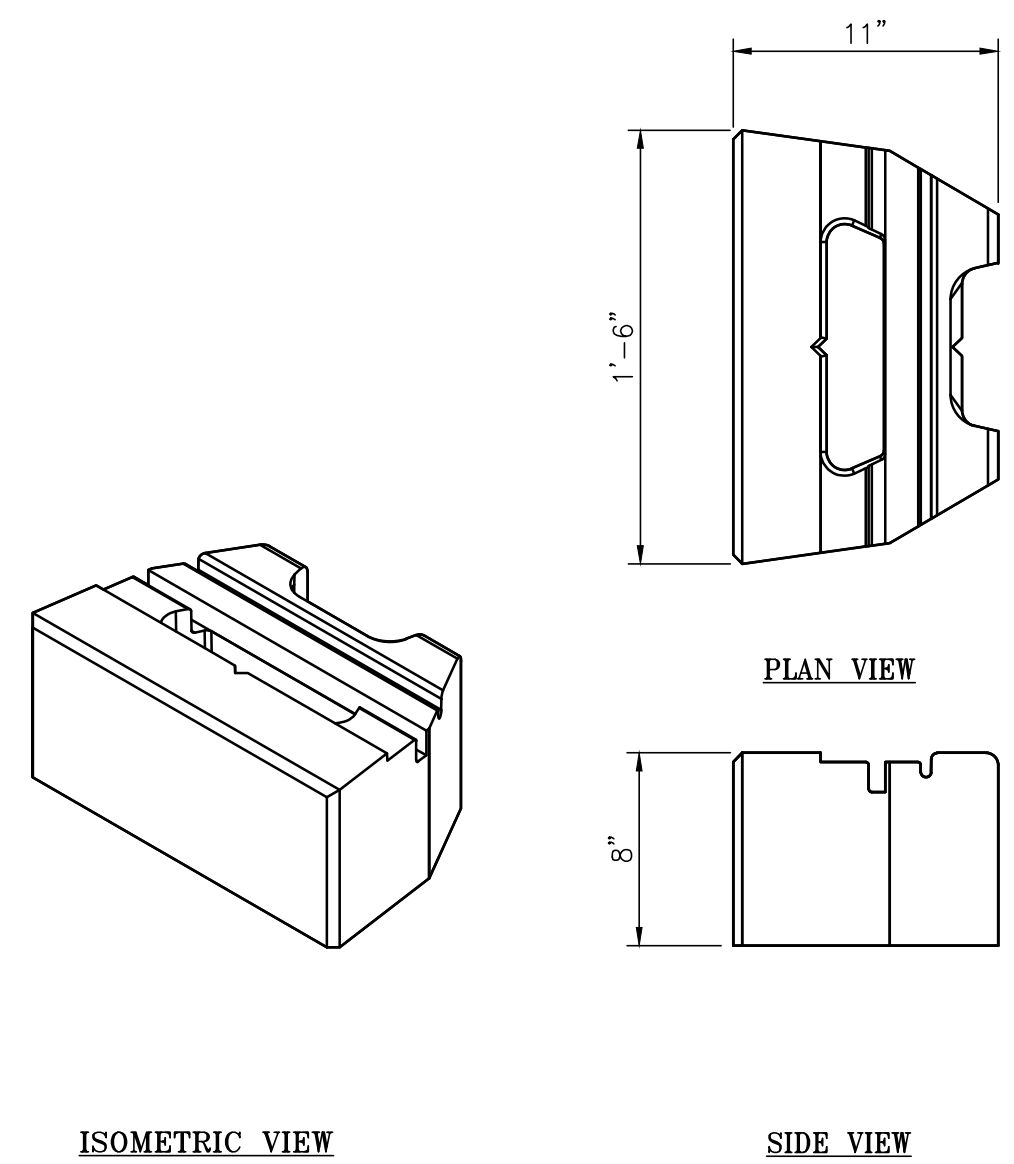
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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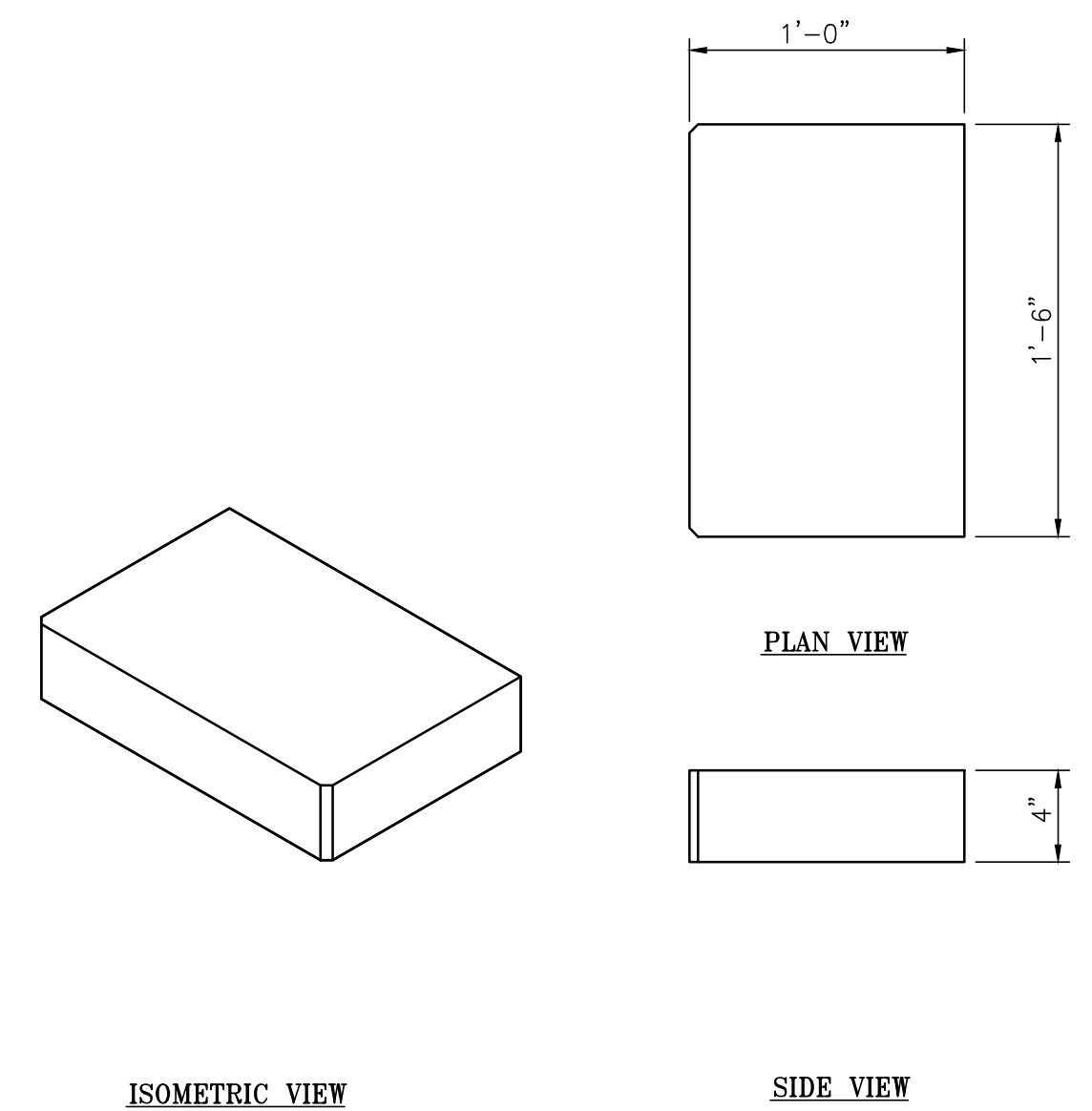
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: CV25

APMT PHASE IV YARD EXPANSION	REV: A
MESA RETAINING WALL	
WALL SECTIONS	

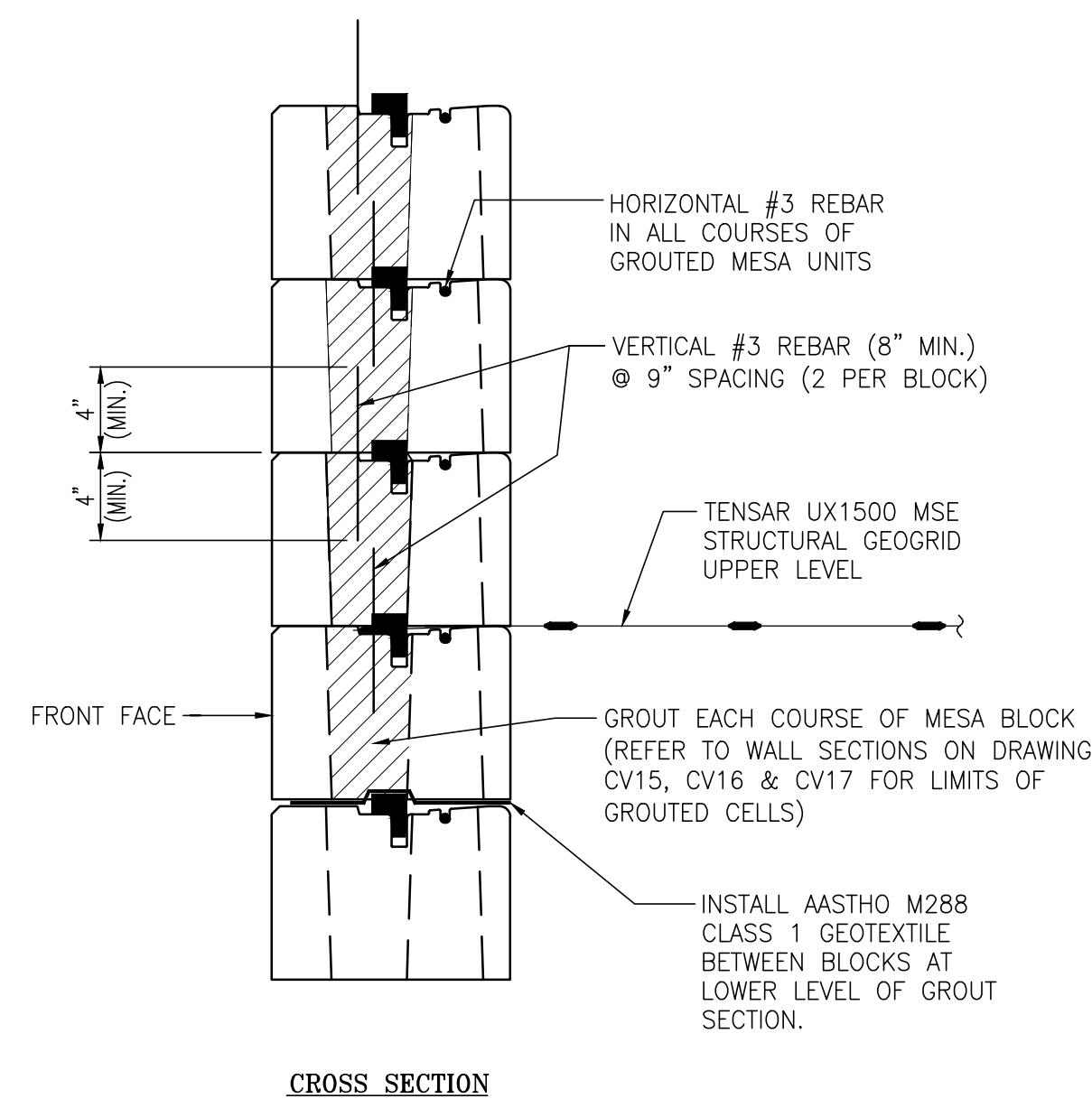


**MESA STANDARD UNIT (STRAIGHT SPLIT FACE)**  
1 1/2"=1'-0"

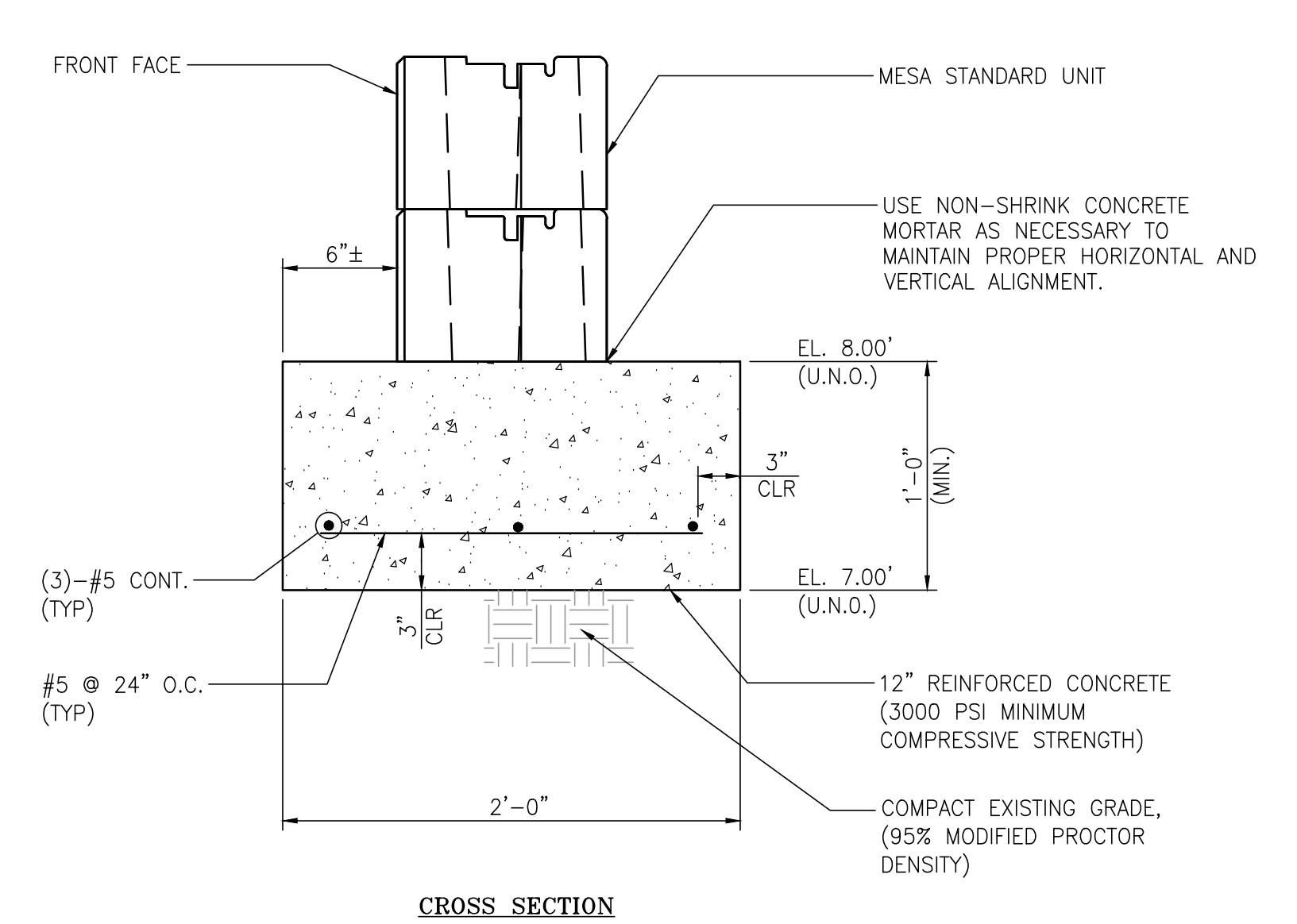


**MESA CAP UNIT (STRAIGHT-SIDED)**  
1 1/2"=1'-0"

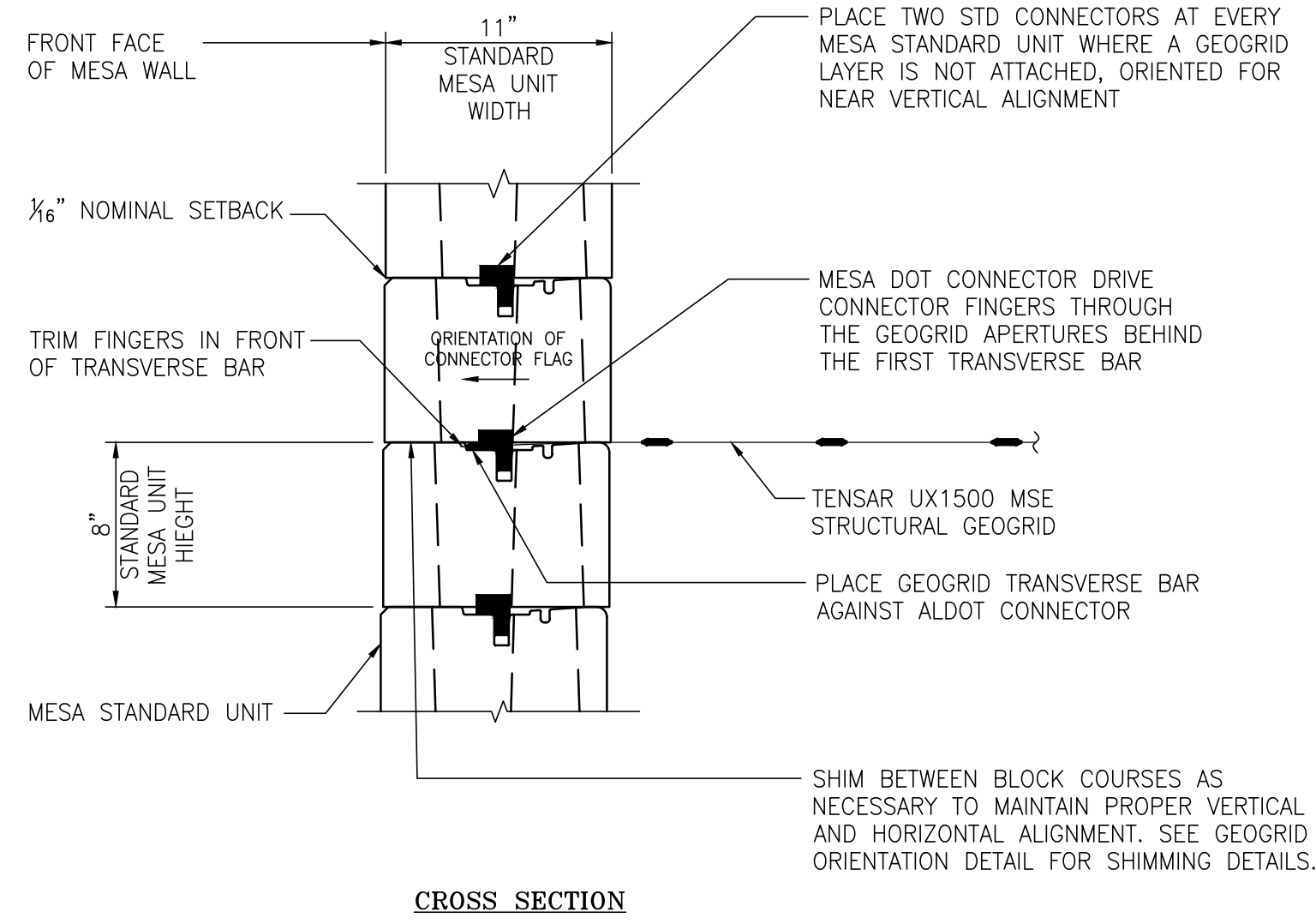
NOTE:  
DIMENSIONS VARY BASED ON PRODUCT AVAILABILITY



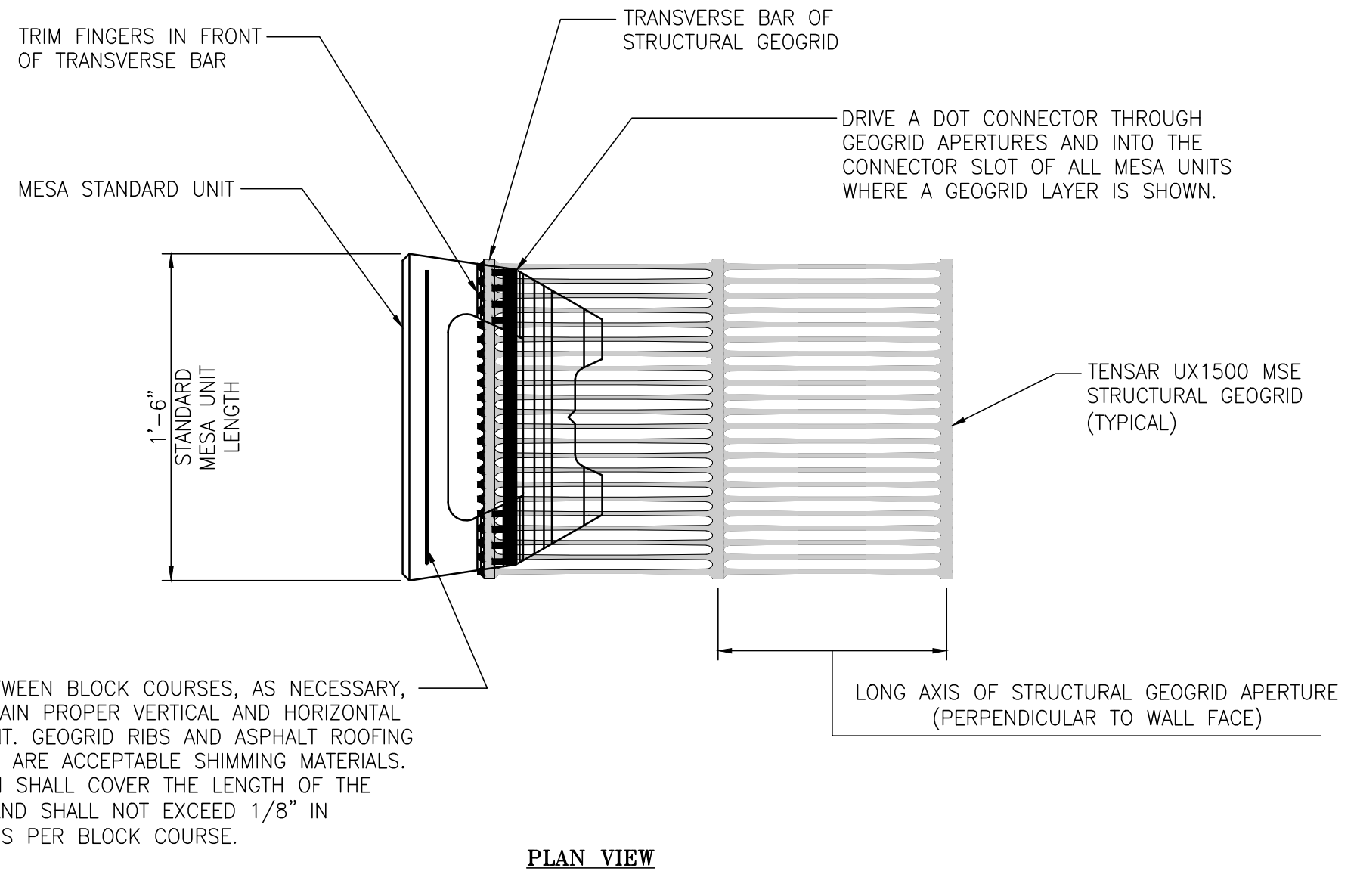
**MESA RETAINING WALL GROUT DETAIL**  
1 1/2"=1'-0"



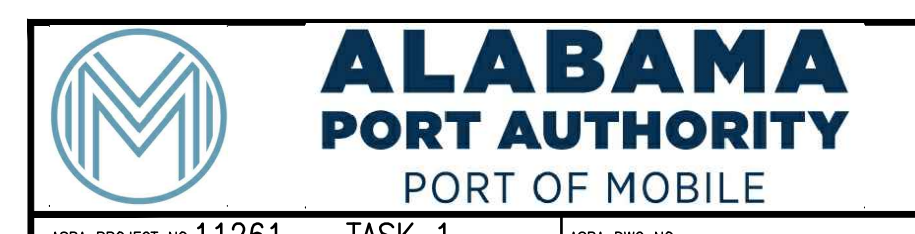
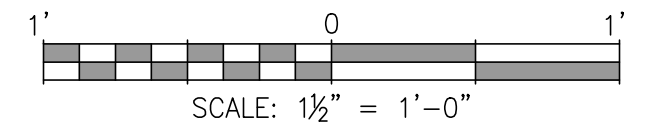
**CONCRETE LEVELING FOUNDATION DETAIL**  
1 1/2"=1'-0"



**MESA STANDARD UNIT & GEOGRID CONNECTION DETAIL FOR NEAR VERTICAL ALIGNMENT**  
1 1/2"=1'-0"



**GEOGRID ORIENTATION (DOT CONNECTOR)**  
1 1/2"=1'-0"



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

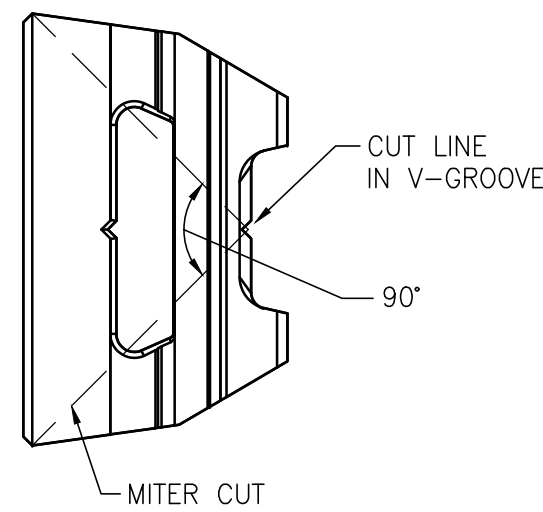
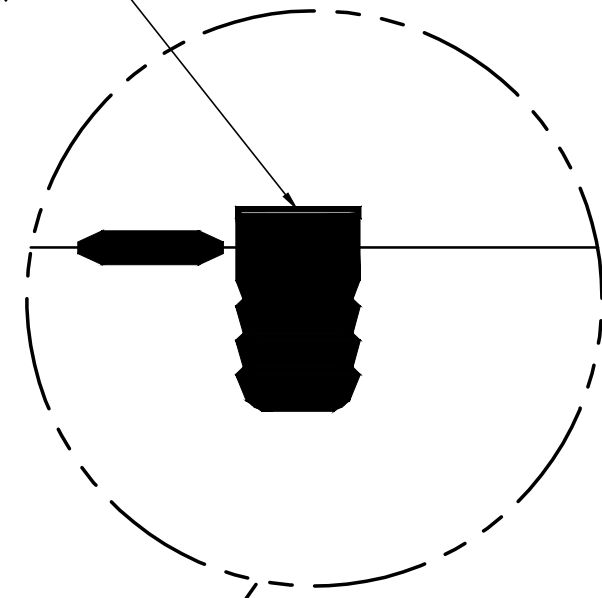
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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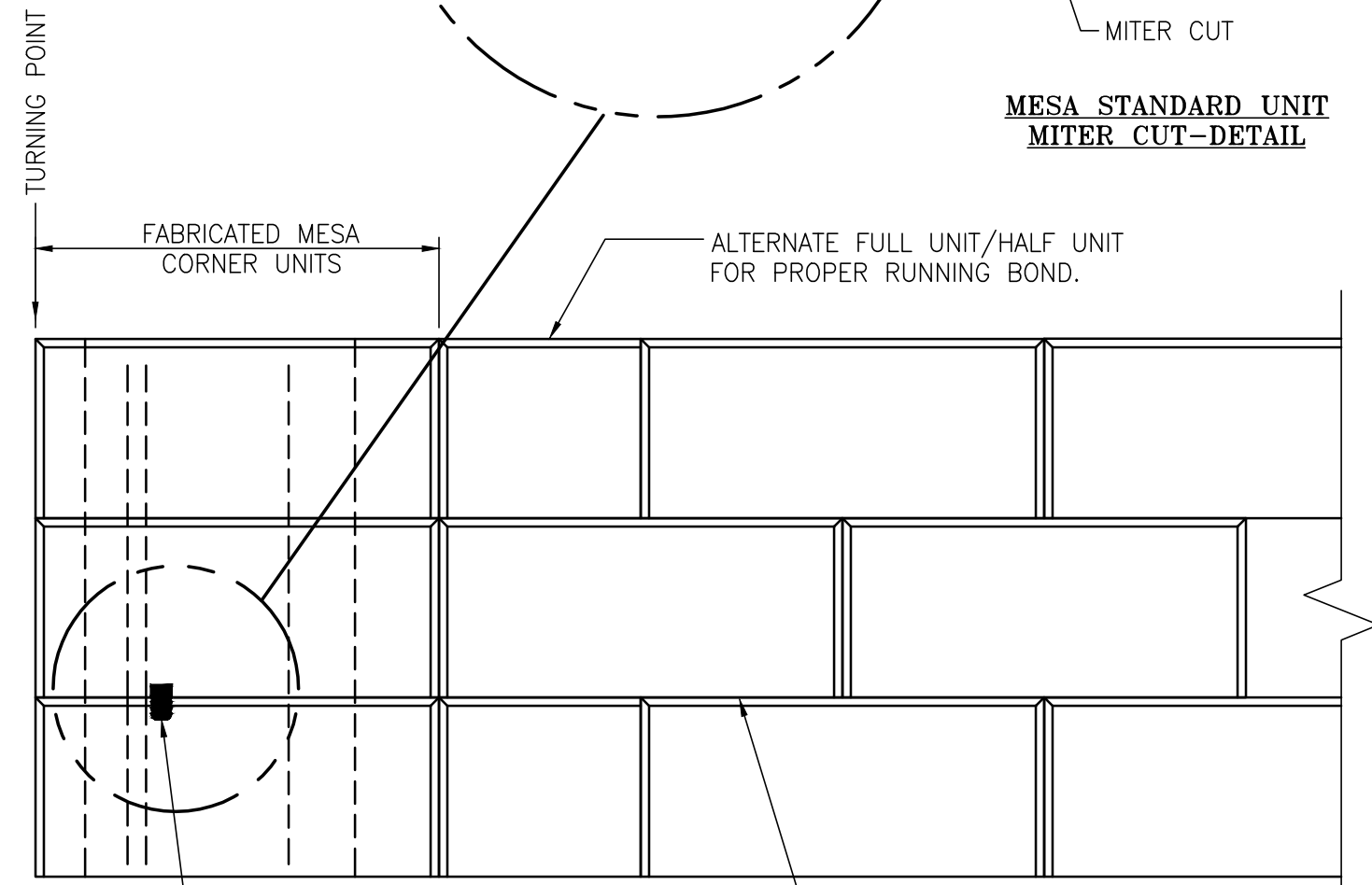
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APMT PHASE IV YARD EXPANSION	REVISION	DATE	SCALE
MESA RETAINING WALL			
SECTIONS & DETAILS			
FOR: ALABAMA PORT AUTHORITY			
PROJECT NO: 4484	DWG NO: CV26		REV: A

TOP FLAGS TO BE CUT FROM CONNECTOR.



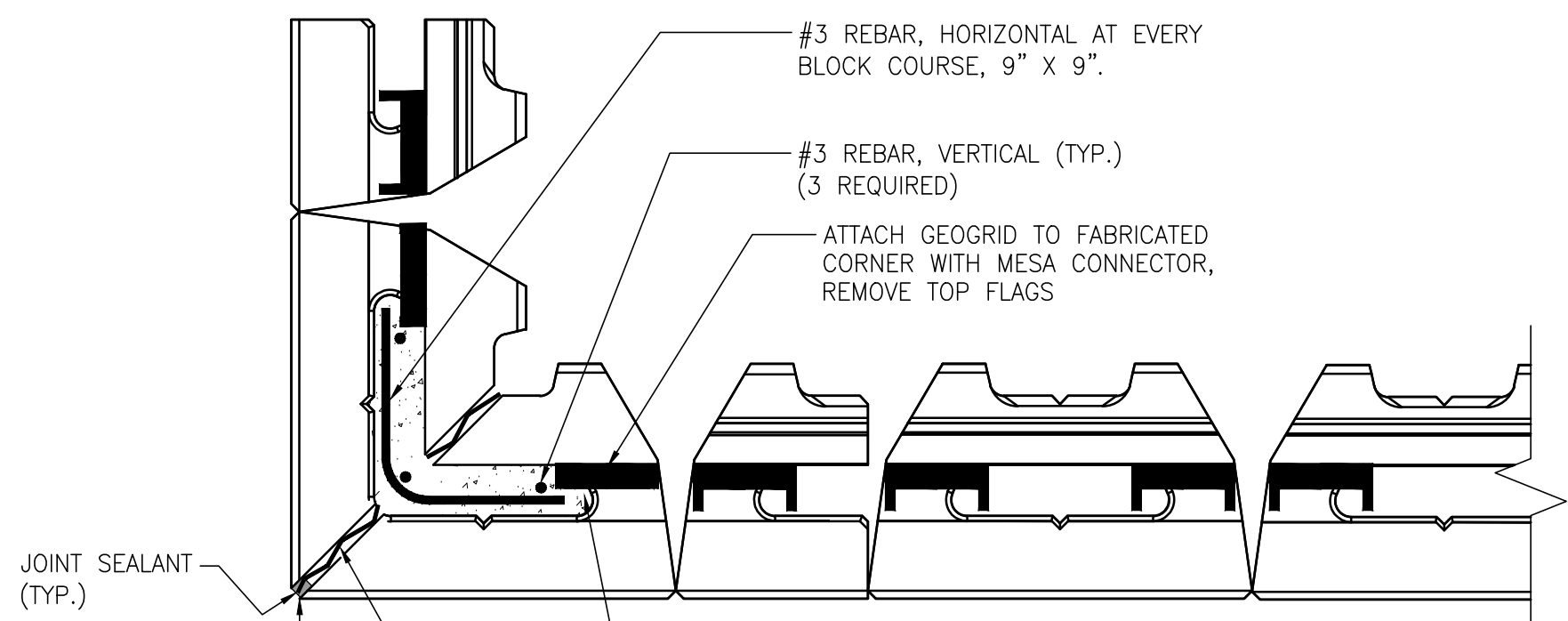
MESA STANDARD UNIT  
MITER CUT-DETAIL



ATTACH CONNECTOR TO FABRICATED CORNER BLOCK AT ELEVATIONS PER ELEVATION VIEW.

ATTACH GEOGRID TO FABRICATED CORNER BLOCK AT LOCATIONS ON WALL ELEVATION VIEWS.

ELEVATION VIEW



#3 REBAR, HORIZONTAL AT EVERY BLOCK COURSE, 9" X 9".

#3 REBAR, VERTICAL (TYP.) (3 REQUIRED)

ATTACH GEOGRID TO FABRICATED CORNER WITH MESA CONNECTOR, REMOVE TOP FLAGS

FILL OPEN CAVITY WITH LEAN MIX CONCRETE OR GROUT (SEE GROUT DETAIL ON DWG CV26)

GLUE MITERED FACE OF MESA UNITS AT TURNING POINTS/CORNERS WITH A HEAVY DUTY MARINE GRADE OUTDOOR CONSTRUCTION ADHESIVE SUITED FOR BONDING HARDENED CONCRETE TO HARDENED CONCRETE.

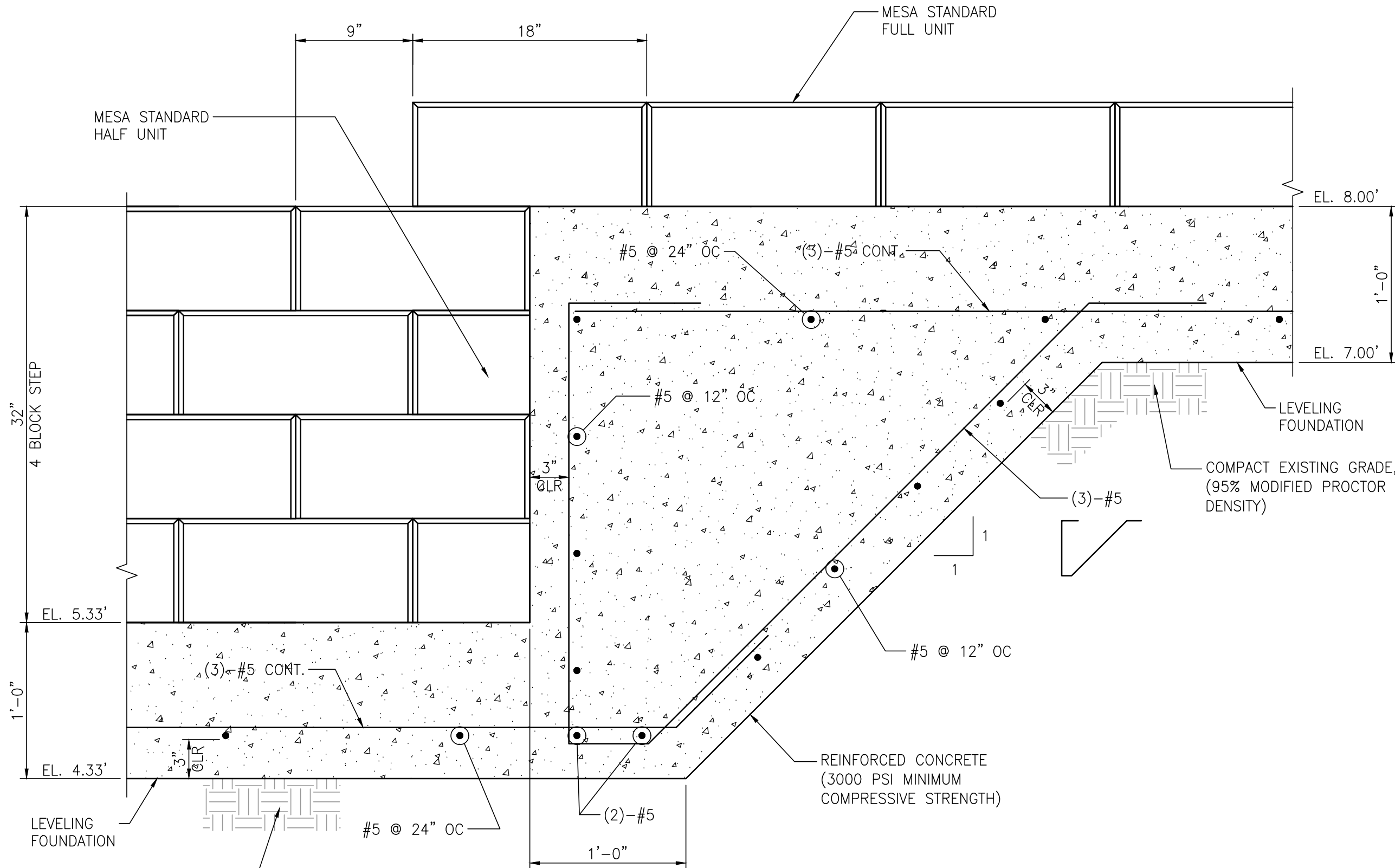
PLAN VIEW

MESA 90° CORNER W/REBAR (FABRICATED) - DETAIL

1 1/2"=1'-0"

NOTES:

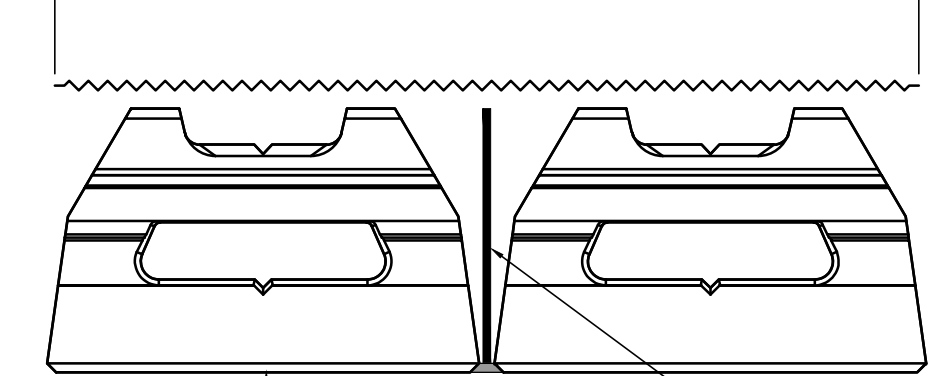
- FIELD VERIFY TURNING POINT ANGLES, THEN MITER CUT MESA STANDARD UNITS SIMILAR TO DETAIL SHOWN ABOVE TO CREATE FABRICATED CORNERS.
- GROUT AND REINFORCE CAVITY OF FABRICATED CORNER BLOCK, FULL HEIGHT OF WALL.



FOUR BLOCK FDN. STEP - ELEVATION VIEW

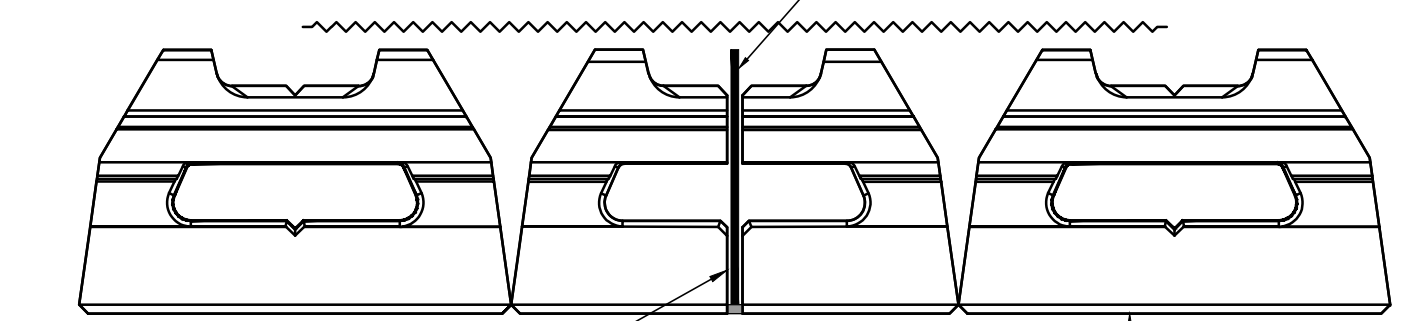
1 1/2"=1'-0" (REFER TO DWG. CV21 & CV22 FOR LOCATION)

GEOTEXTILE CENTERED AT SLIP JOINT LOCATIONS  
GEOTEXTILE SHOULD BE A MINIMUM OF 48" LONG



SECTION A  
CV27/CV27  
1 1/2"=1'-0"

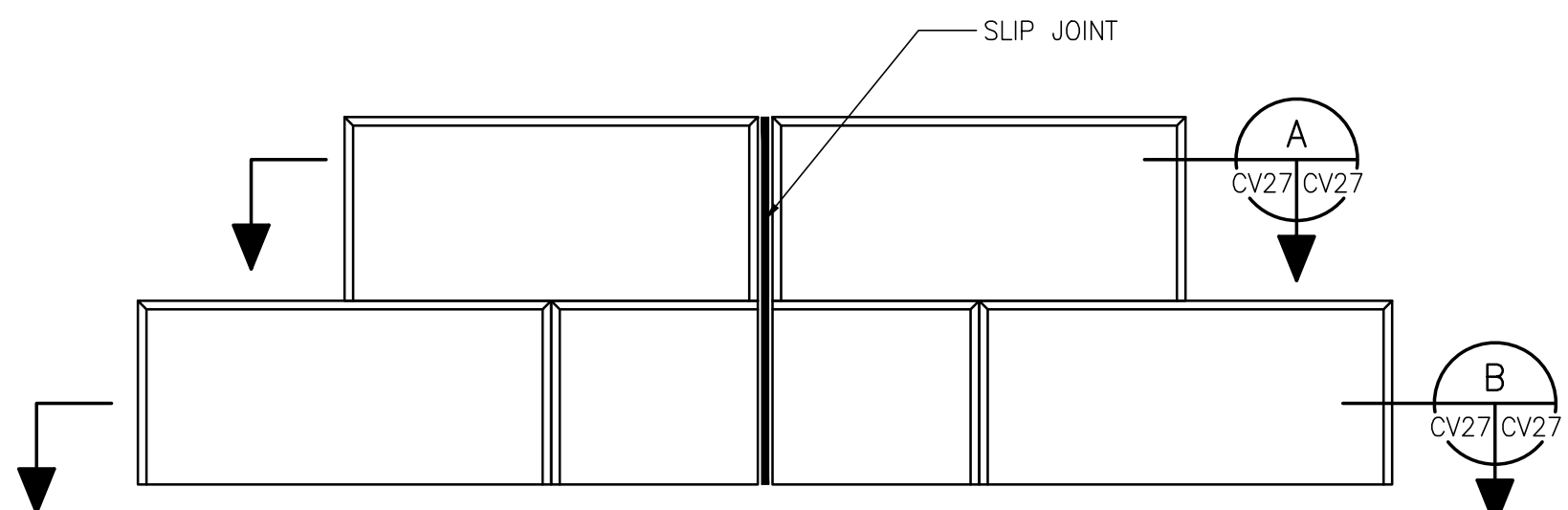
1/8" (MIN.) PVC OR HDPE SHEET OR 1/2" BLACK INSULATION BOARD PLACED BETWEEN UNITS WITH JOINT SEALANT ON FRONT FACE



SECTION B  
CV27/CV27  
1 1/2"=1'-0"

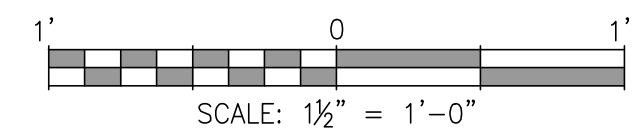
MESA STANDARD UNIT SHALL BE FIELD CUT AT THE SLIP JOINT LOCATION.

MESA WALL FRONT FACE



MESA RETAINING WALL SLIP JOINT - ELEVATION VIEW

1 1/2"=1'-0" (REFER TO DWG. CV21 FOR LOCATION)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

MESA RETAINING WALL

SECTIONS & DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: CV27

REV: A



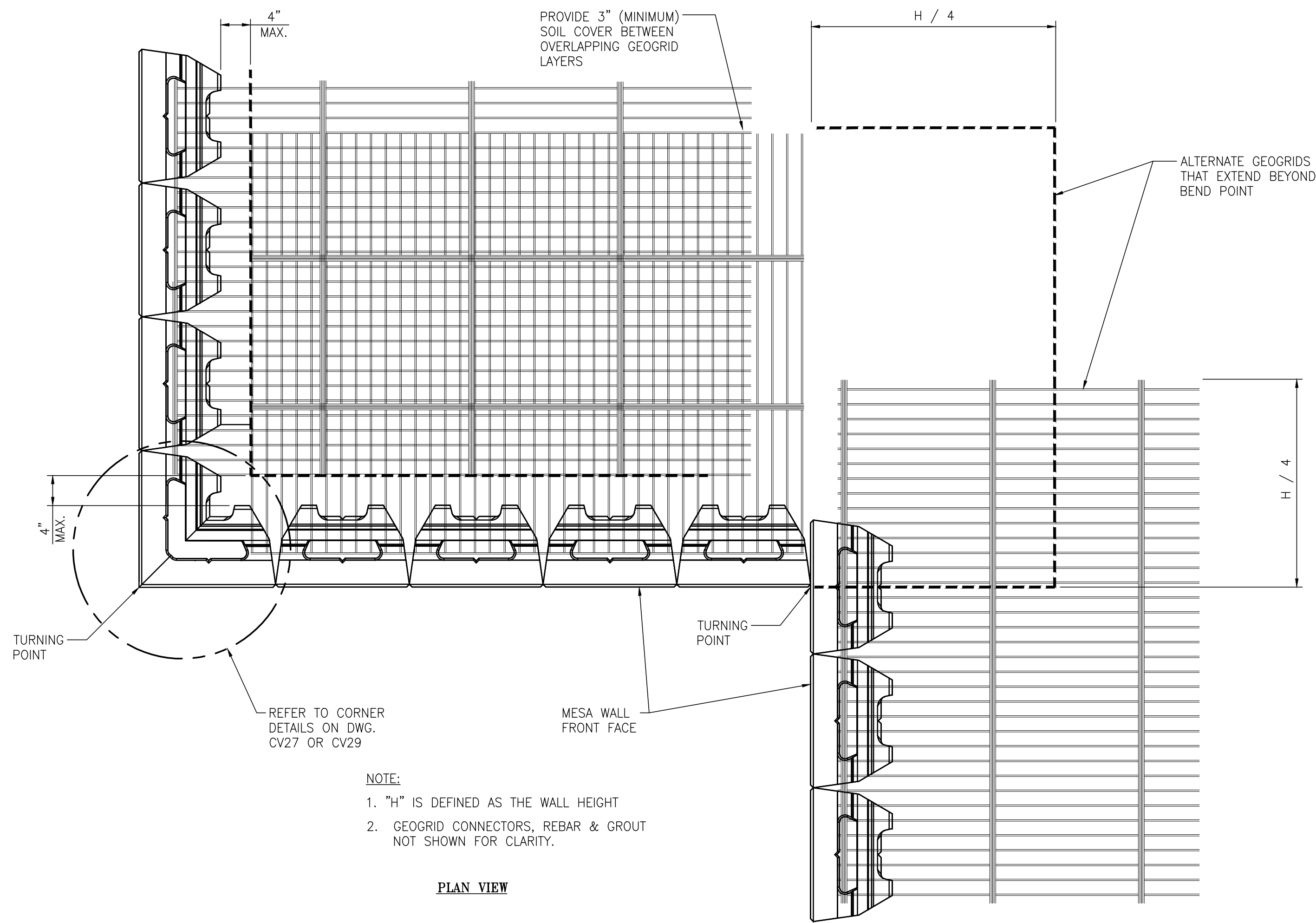
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ISSUED FOR BID  
RST MED RSG 04/05/24  
DRAWN: RST CK'D: MED APPD: RSG DATE: 02/03/23 SCALE: NOTED

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NOTES

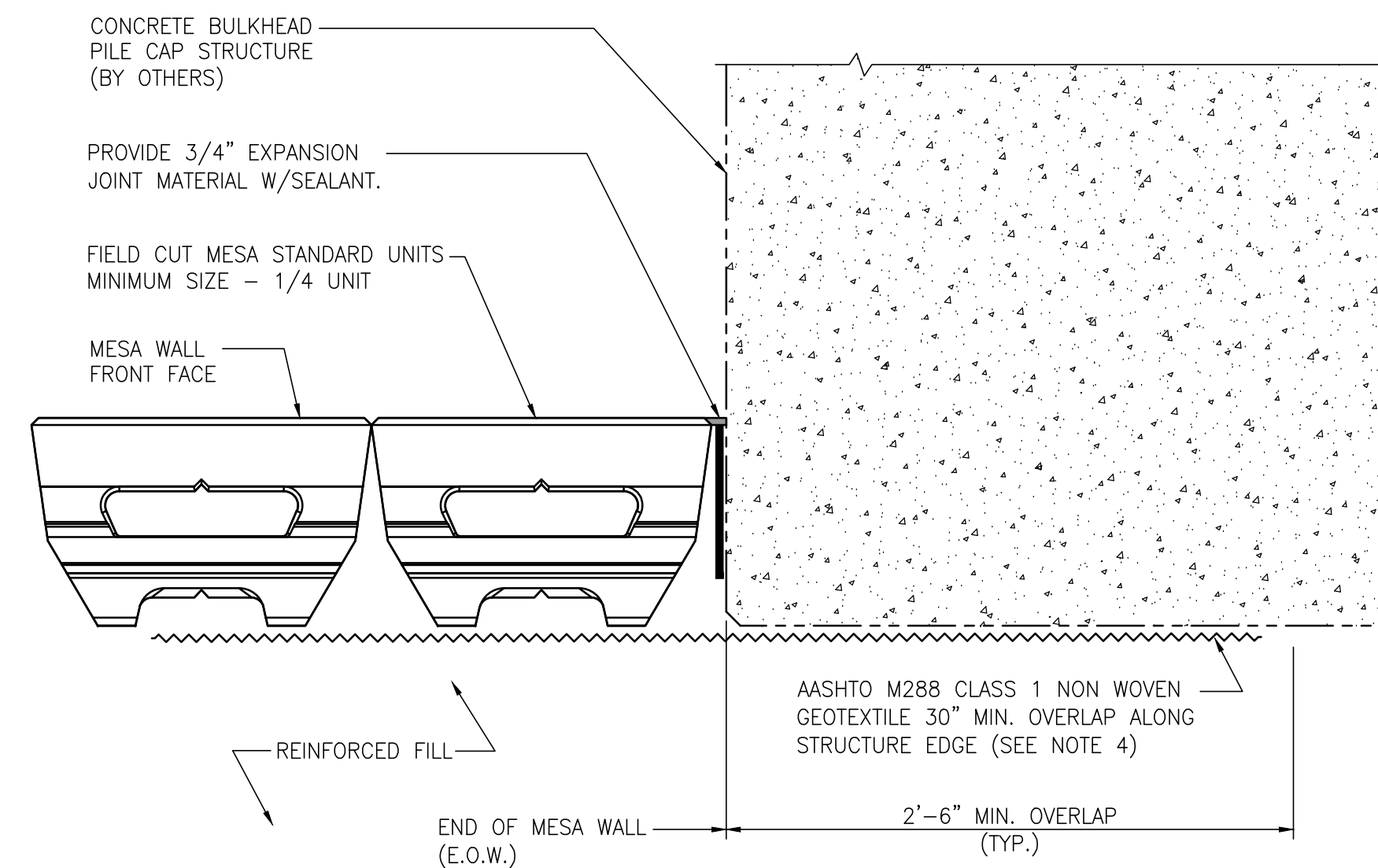


- NOTE:
1. "H" IS DEFINED AS THE WALL HEIGHT
  2. GEOGRID CONNECTORS, REBAR & GROUT NOT SHOWN FOR CLARITY.

PLAN VIEW

**MESA RETAINING WALL ALONG CORNERS - DETAIL**

1"=1'-0"



PLAN VIEW

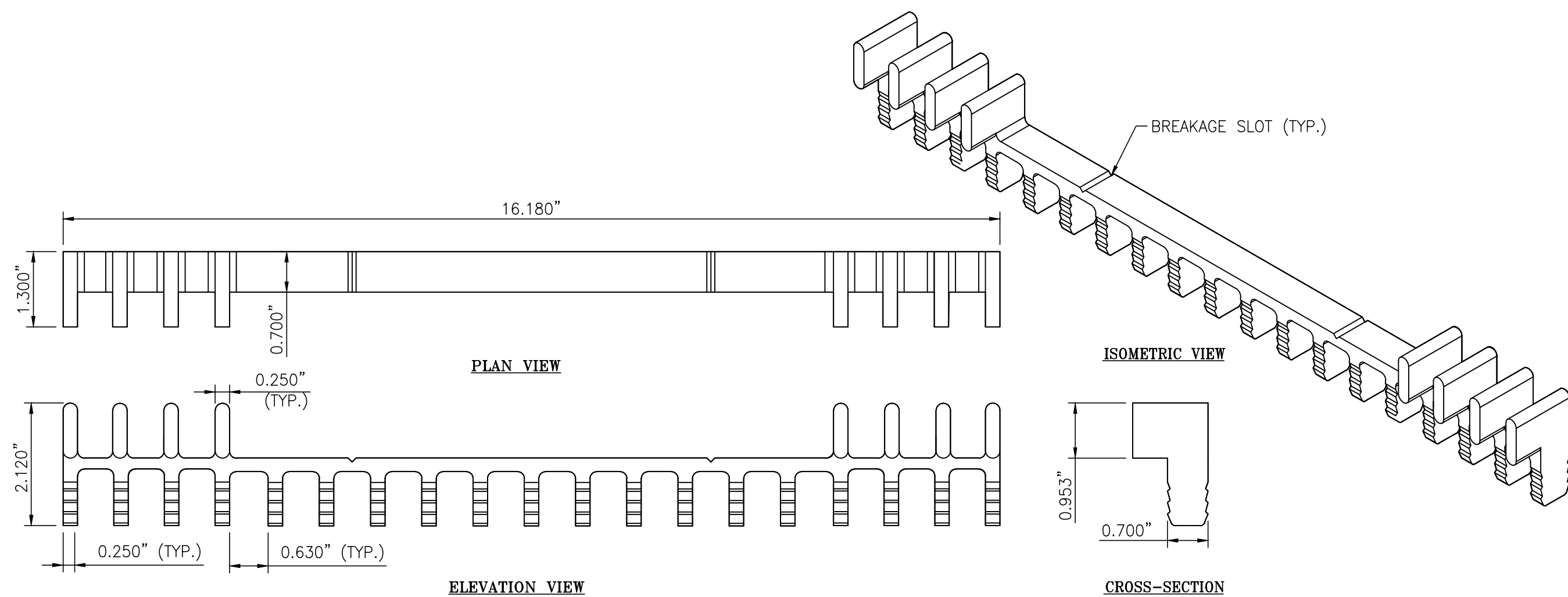
**MESA RETAINING WALL TRANSITION AT STRUCTURE - DETAIL**

1 1/2"=1'-0"

(REFER TO DWG. CV22 FOR E.O.W. LOCATION)

NOTES:

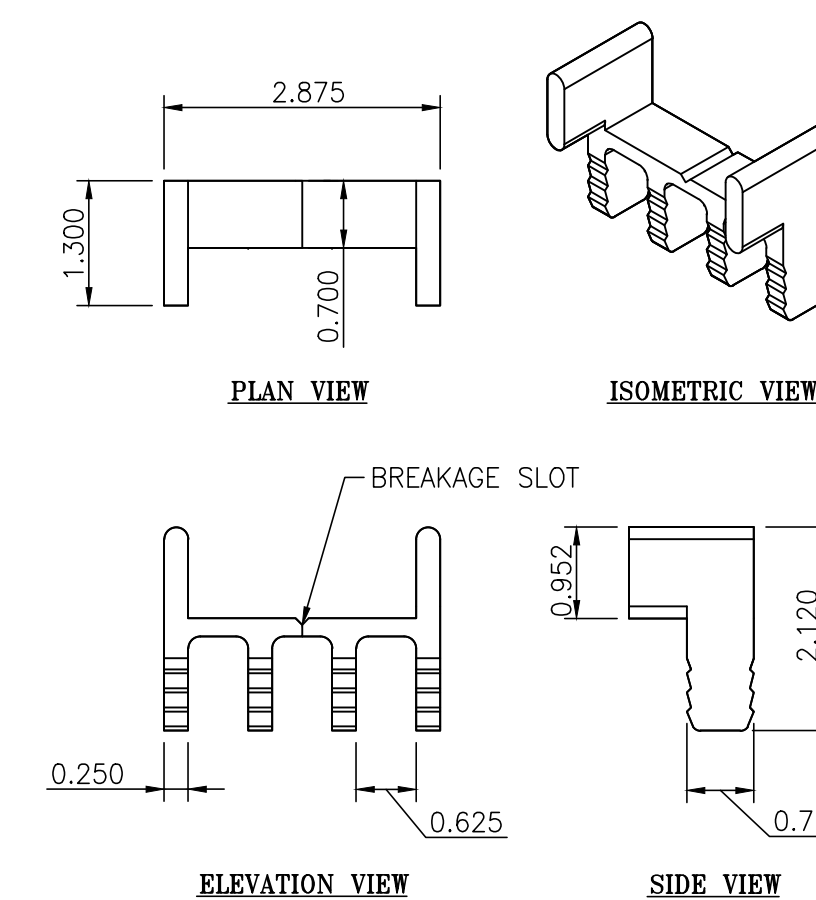
1. GEOGRID, CONNECTORS, REBAR AND GROUT NOT SHOWN FOR CLARITY.
2. FIELD CUT MESA STANDARD UNIT (MIN. 1/4 UNIT) FOR RUNNING BOND.
3. REFER TO WALL-SECTION ON DRAWING CV25 FOR FILL, GEOGRID AND DRAINAGE REQUIREMENTS AT BACK OF WALL.
4. ATTACH GEOTEXTILE TO STRUCTURE WITH CONSTRUCTION ADHESIVE.



NOTE:  
DOT CONNECTOR CAN BE BROKEN AT  
BREAKAGE SLOTS TO FACILITATE INSTALLATION.

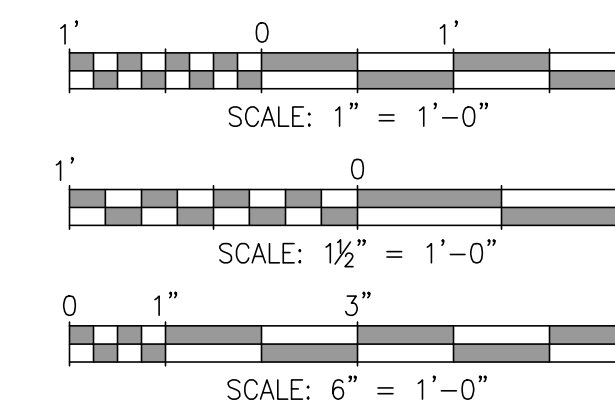
**MESA DOT CONNECTOR**

6"=1'-0"



**MESA STANDARD CONNECTOR**

6"=1'-0"



NO.	REVISION	APPD.	DATE	DRAWN	CK'D	APPD.	DATE
A	ISSUED FOR BID	RST	04/05/24				

REFERENCE DRAWINGS	NO.	REVISION	APPD.	DATE	DRAWN	CK'D	APPD.	DATE

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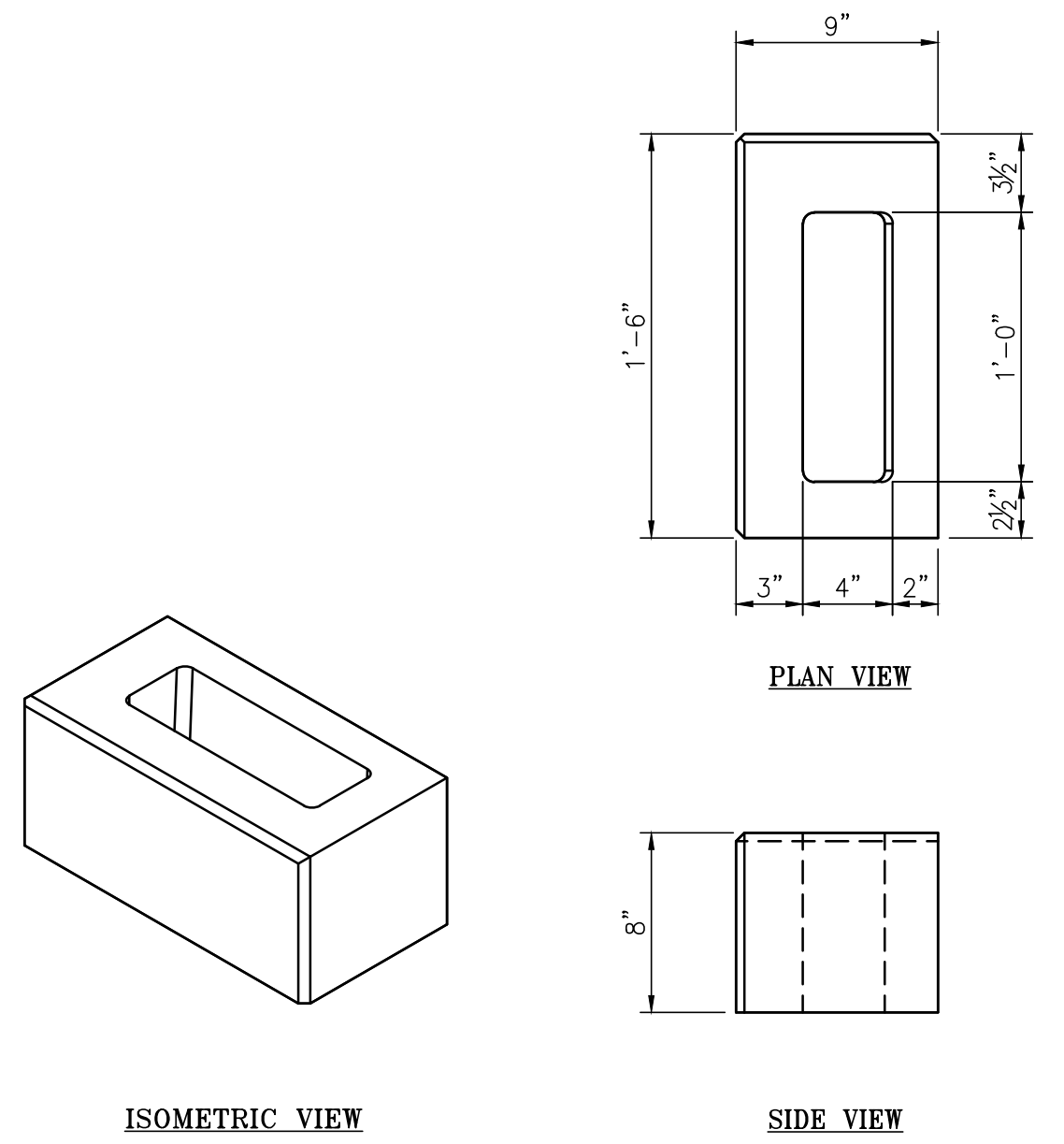
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

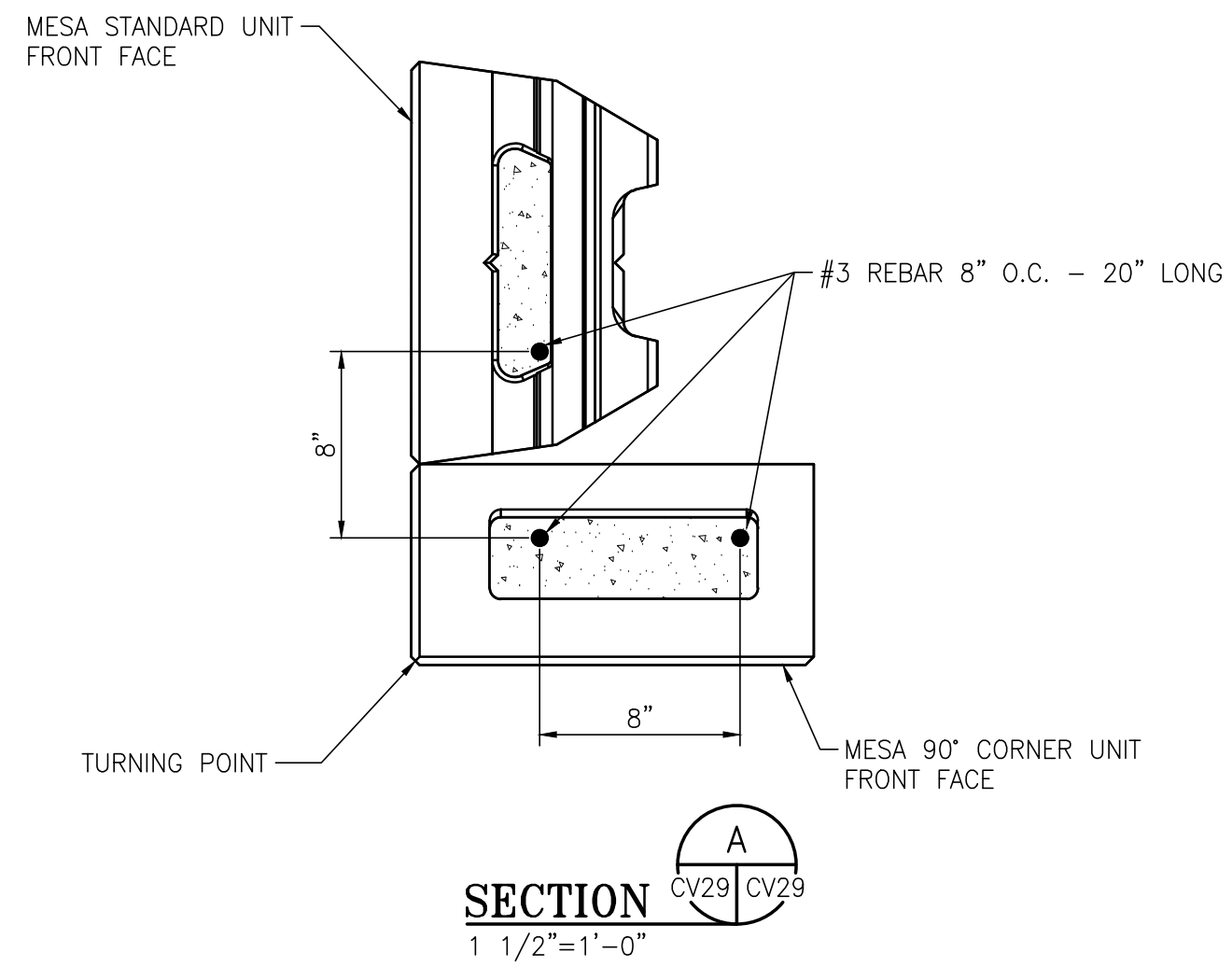
APMT PHASE IV YARD EXPANSION  
MESA RETAINING WALL  
SECTIONS & DETAILS

FOR: ALABAMA PORT AUTHORITY

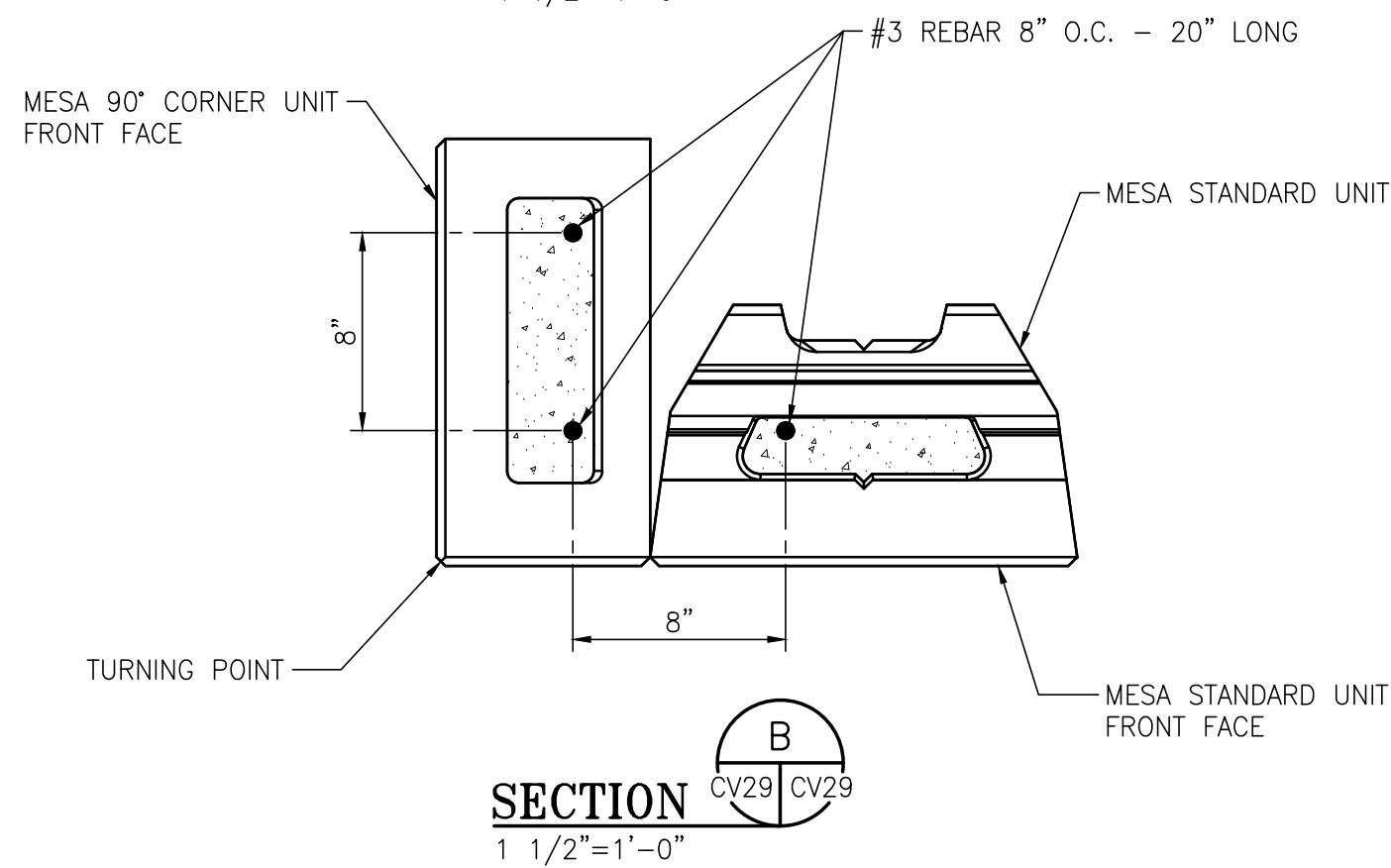
PROJECT NO: 4484 | DWG NO: CV28 | REV: A



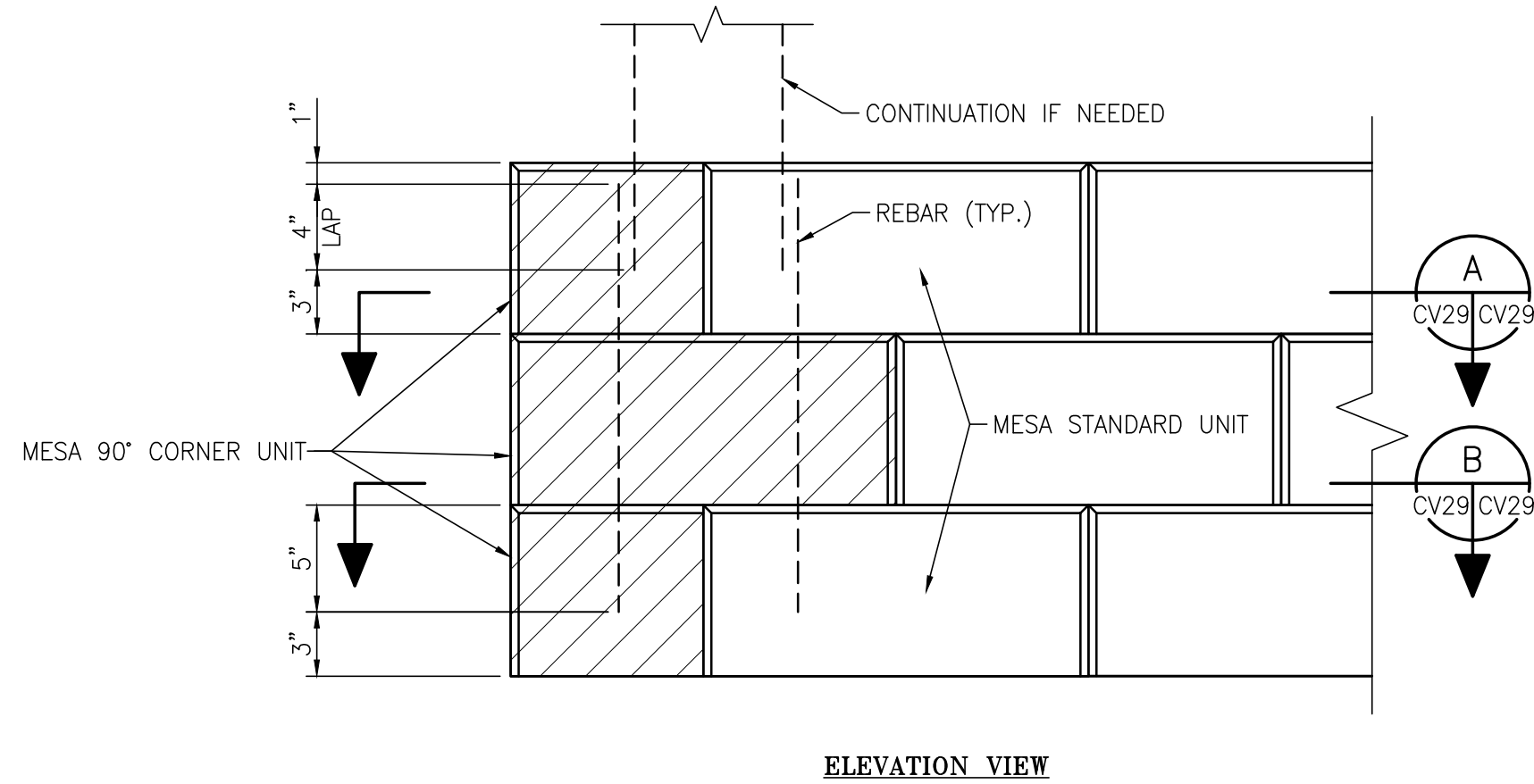
**MESA CORNER UNIT (STRAIGHT SPLIT FACE)**  
1 1/2"=1'-0"



**SECTION A**  
CV29/CV29  
1 1/2"=1'-0"

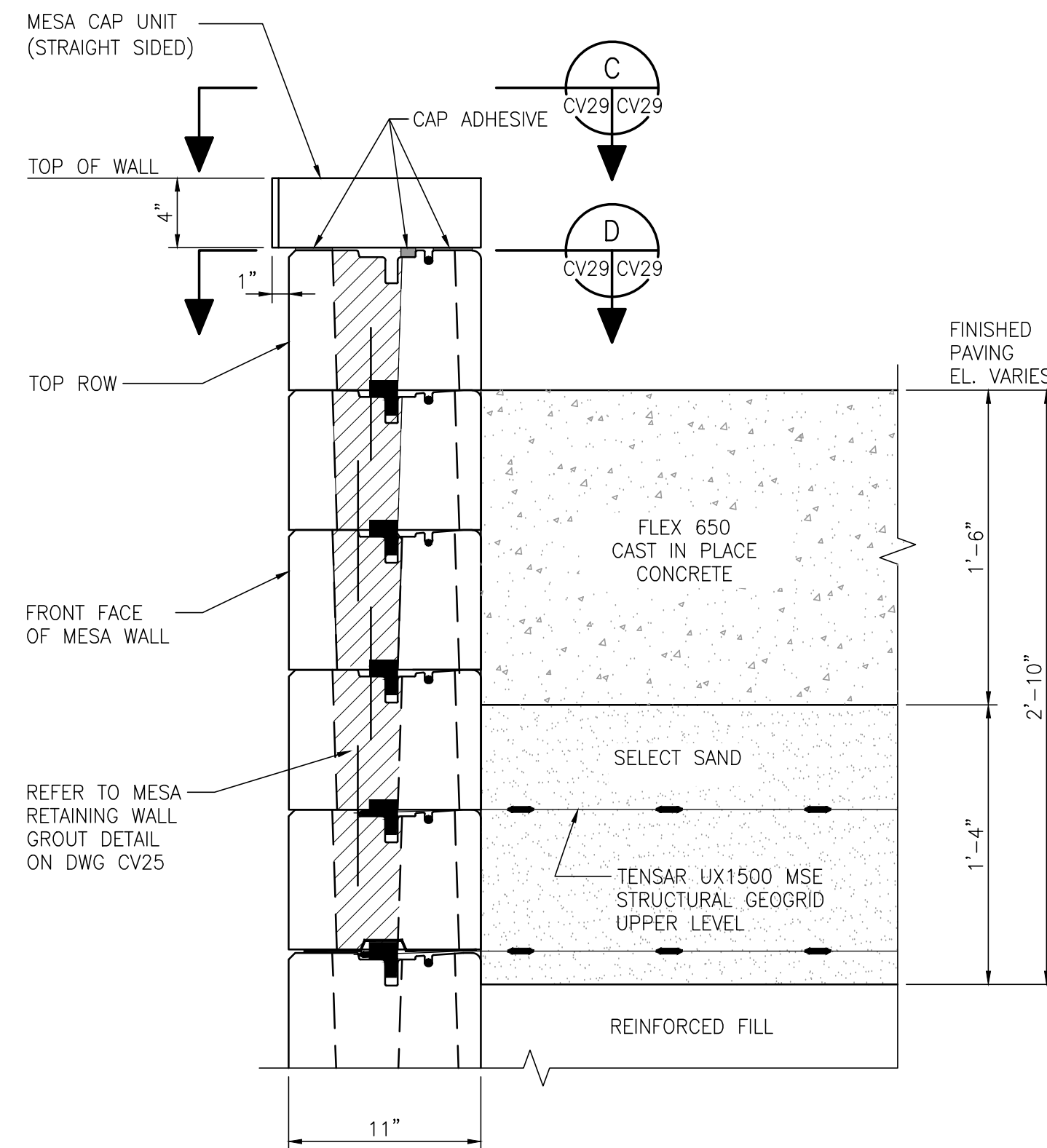


**SECTION B**  
CV29/CV29  
1 1/2"=1'-0"



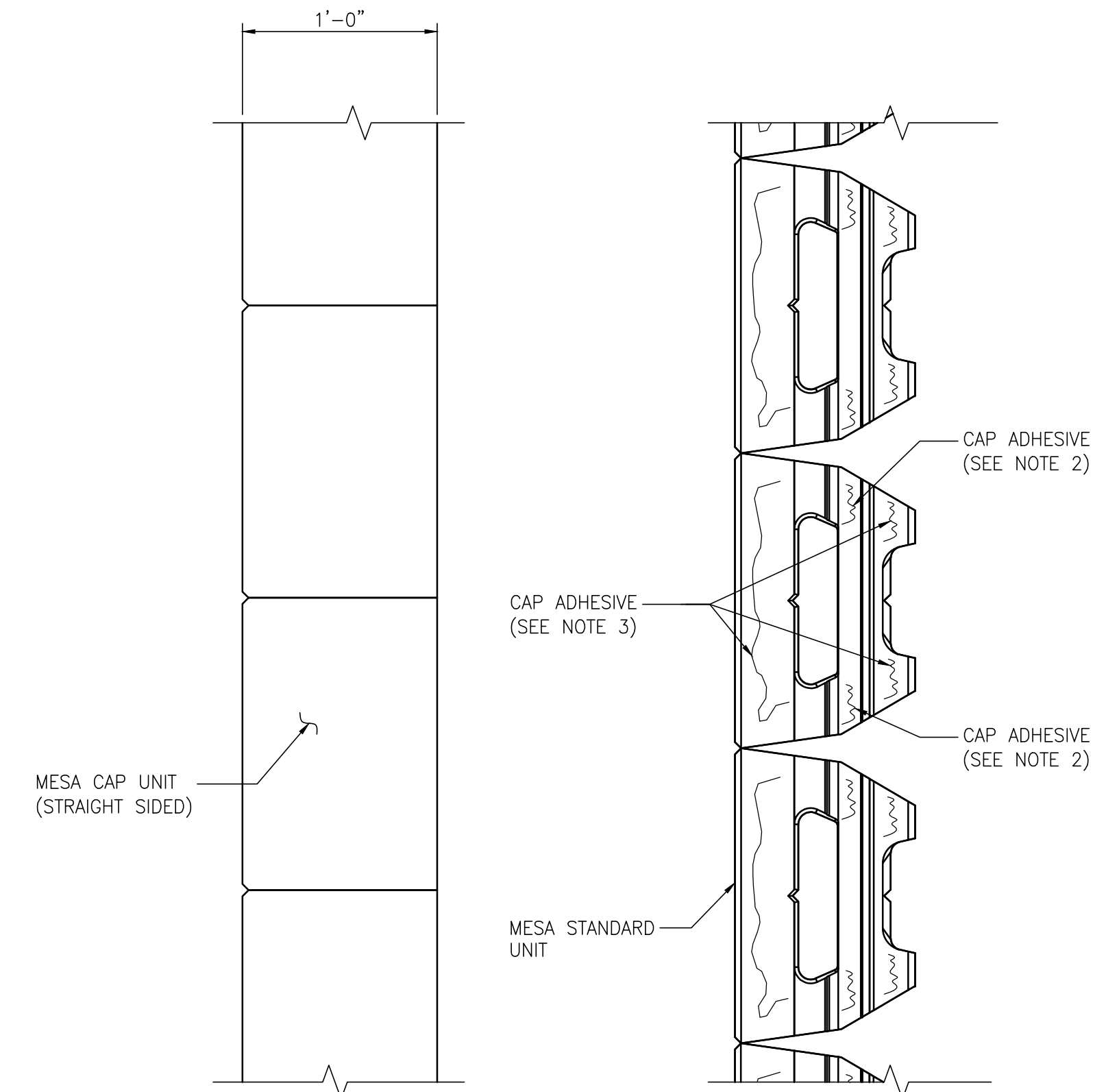
**MESA 90 degree CORNER UNIT W/REBAR - DETAIL**  
1 1/2"=1'-0"

- NOTES:**
1. ALTERNATE CORNER UNIT DIRECTION FOR PROPER RUNNING BOND.
  2. GROUT AND REINFORCE CAVITIES OF CORNER BLOCK, FULL HEIGHT OF WALL.
  3. ENSURE THAT SPLIT FACES ARE EXPOSED.



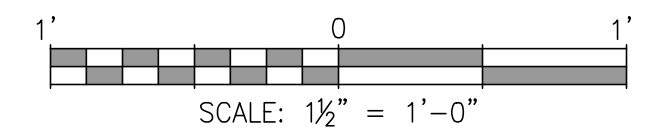
**MESA WALL TOP SECTION - CAP UNIT INSTALLATION**  
1 1/2"=1'-0"

- NOTE:**
1. PRIOR TO INSTALLATION OF CAP UNIT, PLACE A LINE OF ADHESIVE IN THE DEPRESSED AREA BETWEEN THE CONNECTOR SLOT AND THE FACE OF THE UNIT PER SECTION-"D".
  2. PLACE A LINE OF ADHESIVE ALONG THE TOP OF THE MESA FACING UNITS JUST BEHIND THE FACES PER SECTION-"D".
  3. BUTT SIDES OF CAP UNITS AS SHOWN IN SECTION-"C".



**SECTION C**  
CV29/CV29  
1 1/2"=1'-0"

**SECTION D**  
CV29/CV29  
1 1/2"=1'-0"



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
MESA RETAINING WALL  
SECTIONS & DETAILS

FOR: ALABAMA PORT AUTHORITY

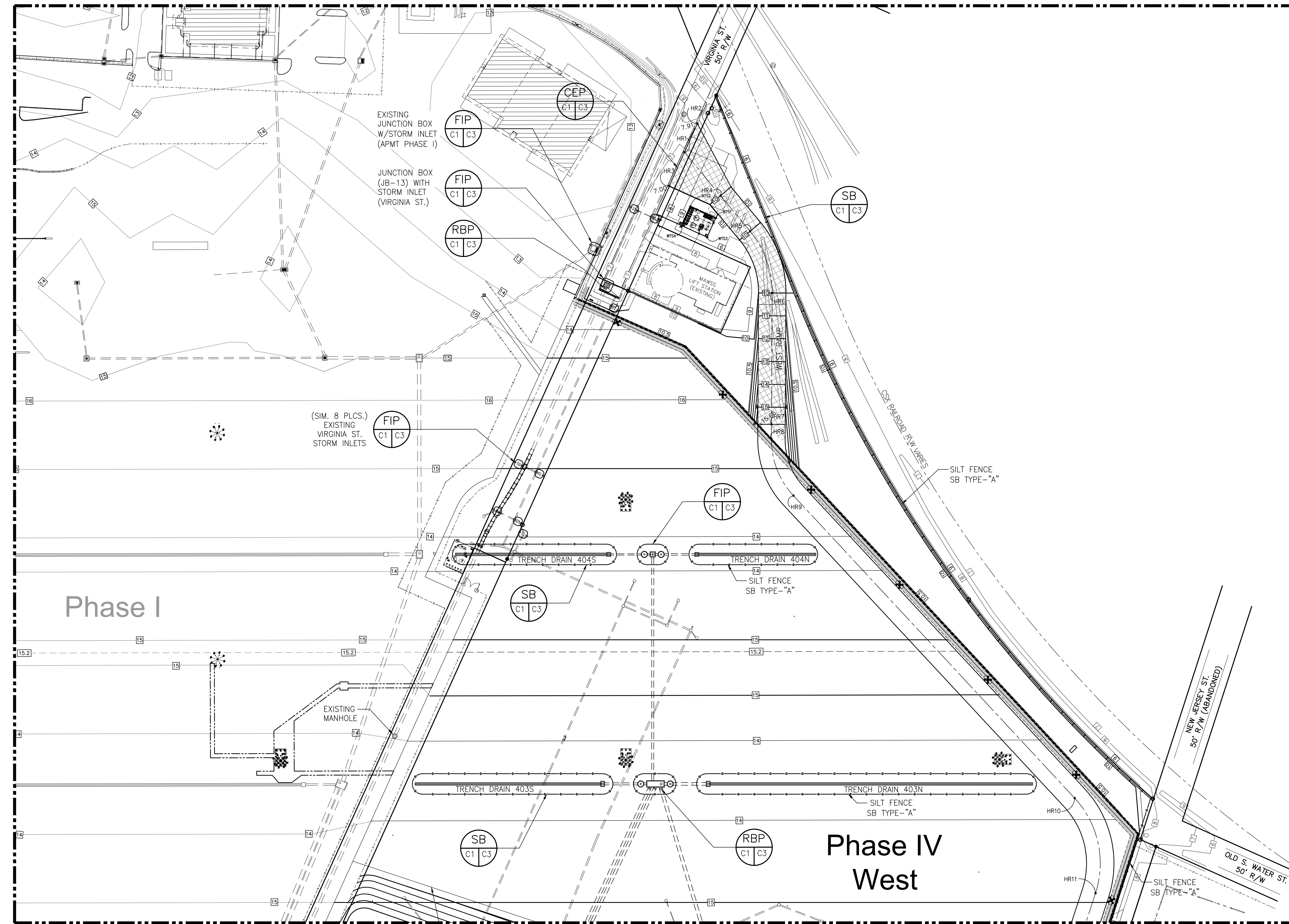
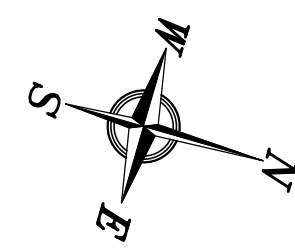
PROJECT NO: 4484 DWG NO: CV29 REV: A



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DRAWN: RST CK'D: MED APPD: RSG DATE: 02/03/23 SCALE: NOTED

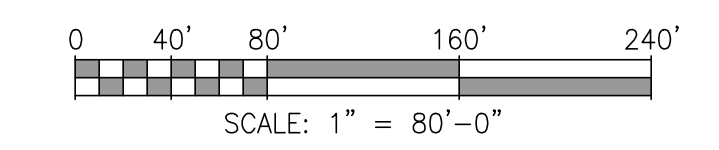
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24



- NOTES:**
- SEED AND MULCH SLOPES AND BARE AREAS WITHIN 14 DAYS OF FINAL GRADING. TEMPORARY SEED AND MULCH PERVIOUS AREAS THAT ARE TO REMAIN IDLE FOR MORE THAN 14 DAYS.
  - USE EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1 ECB TO BE NORTH AMERICAN GREEN SC150 OR EQUAL.
  - CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT COLLECTED IN STORM SYSTEM.

**LEGEND:**

SYMBOL:	DESCRIPTION:
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	SPECIAL CONTOUR
	EXISTING CONTOUR
	RCP STORM DRAIN
	PROPERTY OR STREET R/W BOUNDARY LINE
	SILT FENCE
	EXISTING STORM INLET
	WATER QUALITY UNIT
14	ELEVATION
+12.88	SPOT ELEVATION OR TOP OF TRENCH/INLET GRATE ELEVATION
	HIGHMAST LIGHT POLE
ECB	EROSION CONTROL BLANKET
SB	SEDIMENT BARRIERS
SB TYPE A	SILT FENCE SEDIMENT BARRIER



Phase I

Phase IV West

MATCHLINE - "A" SEE DWG. C2

PHASE IV WEST PAVING LIMITS

NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DATE	APPD.	DATE	APPD.	DATE	APPD.
A	ISSUED FOR BID	04/05/24	RST	MED	RSG	04/05/24	
	REFERENCE DRAWINGS						

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**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

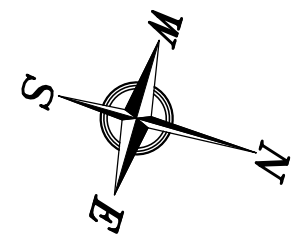
ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
SOIL EROSION & SEDIMENT CONTROL  
PARTIAL PLAN (SHT. 1 OF 2)

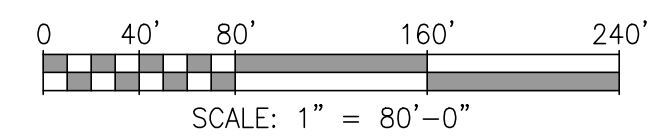
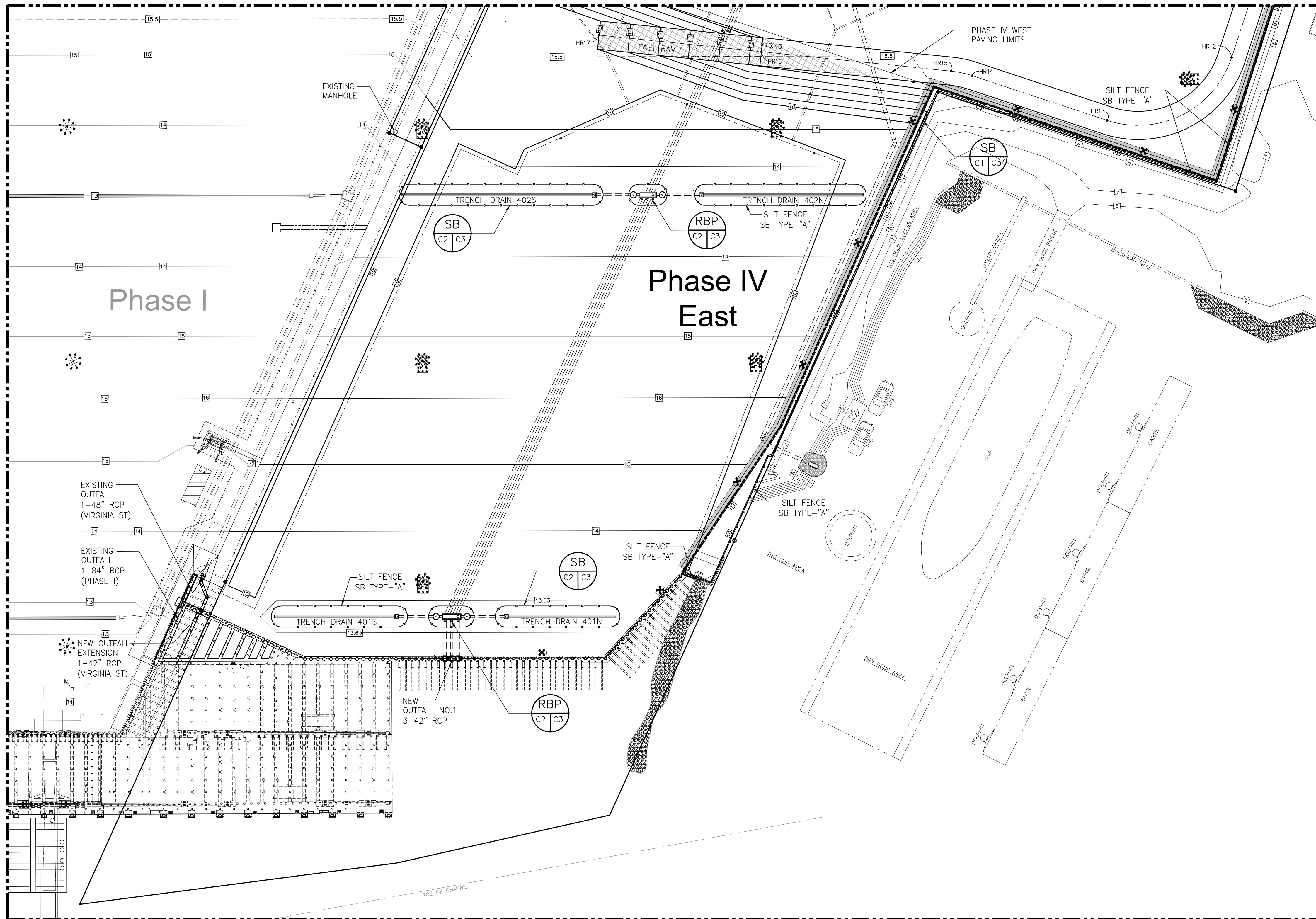
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: C1 | REV: A





MATCHLINE - "A" SEE DWG. C1



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

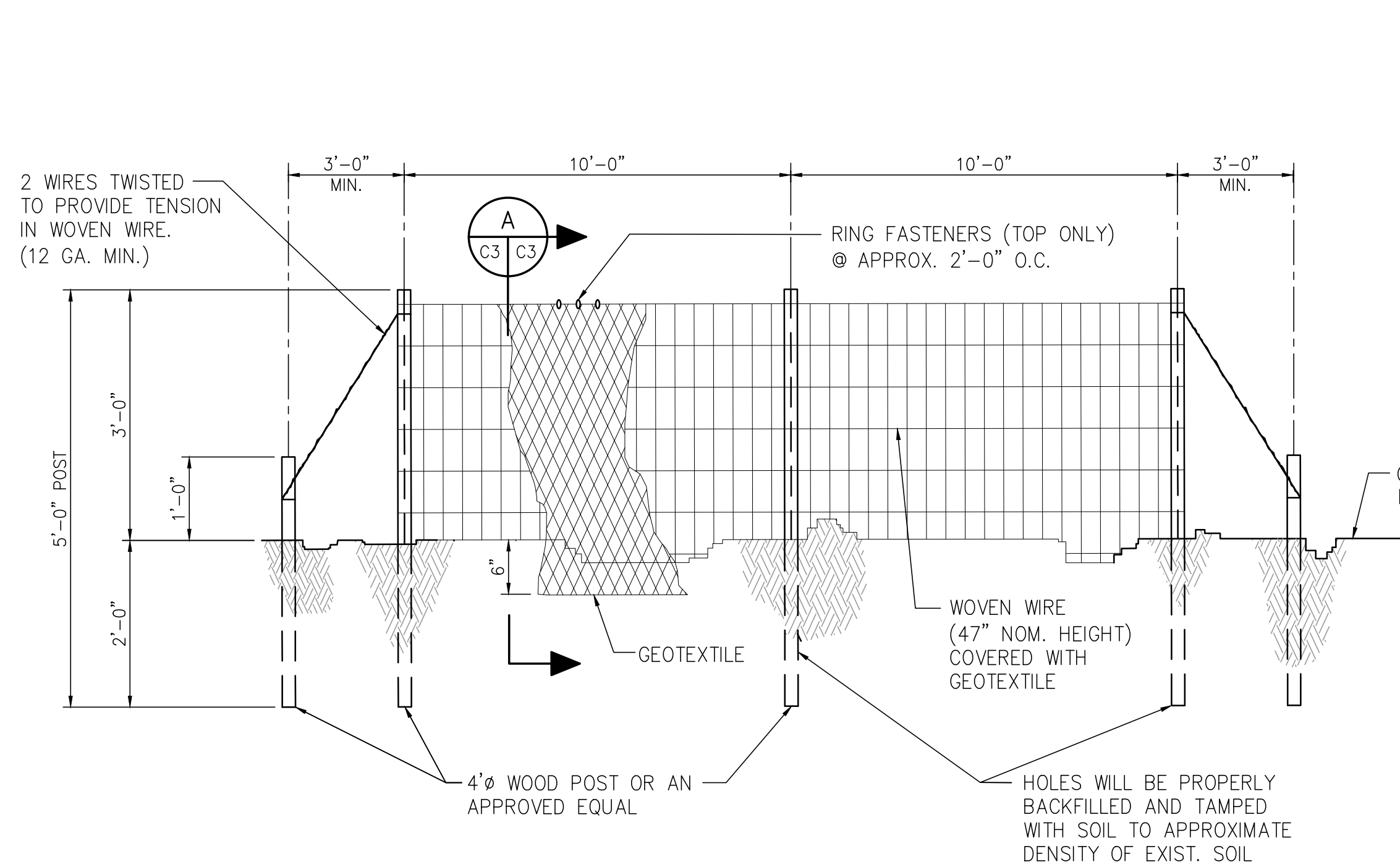
NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWING C1 FOR NOTES AND SYMBOL LEGEND.

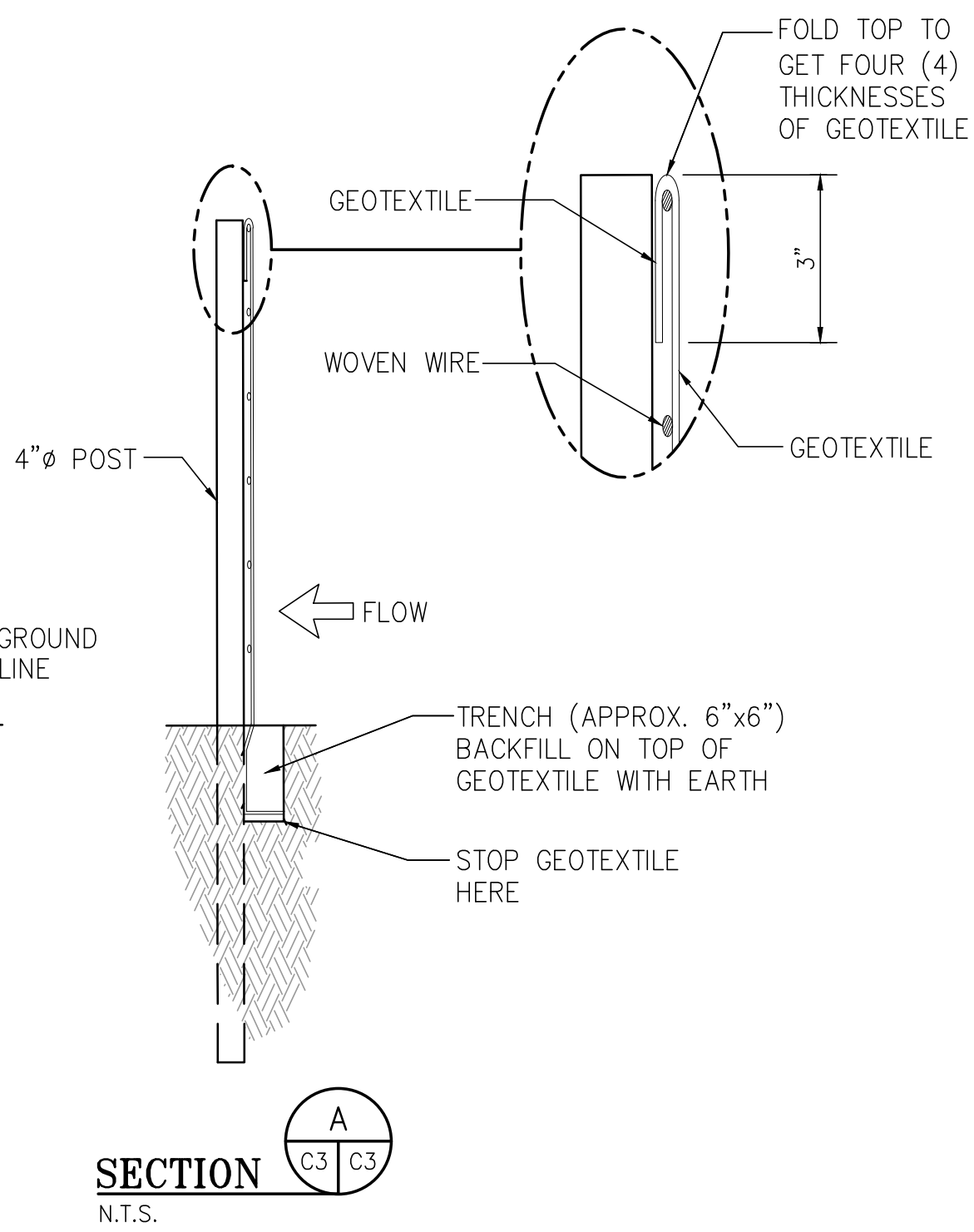
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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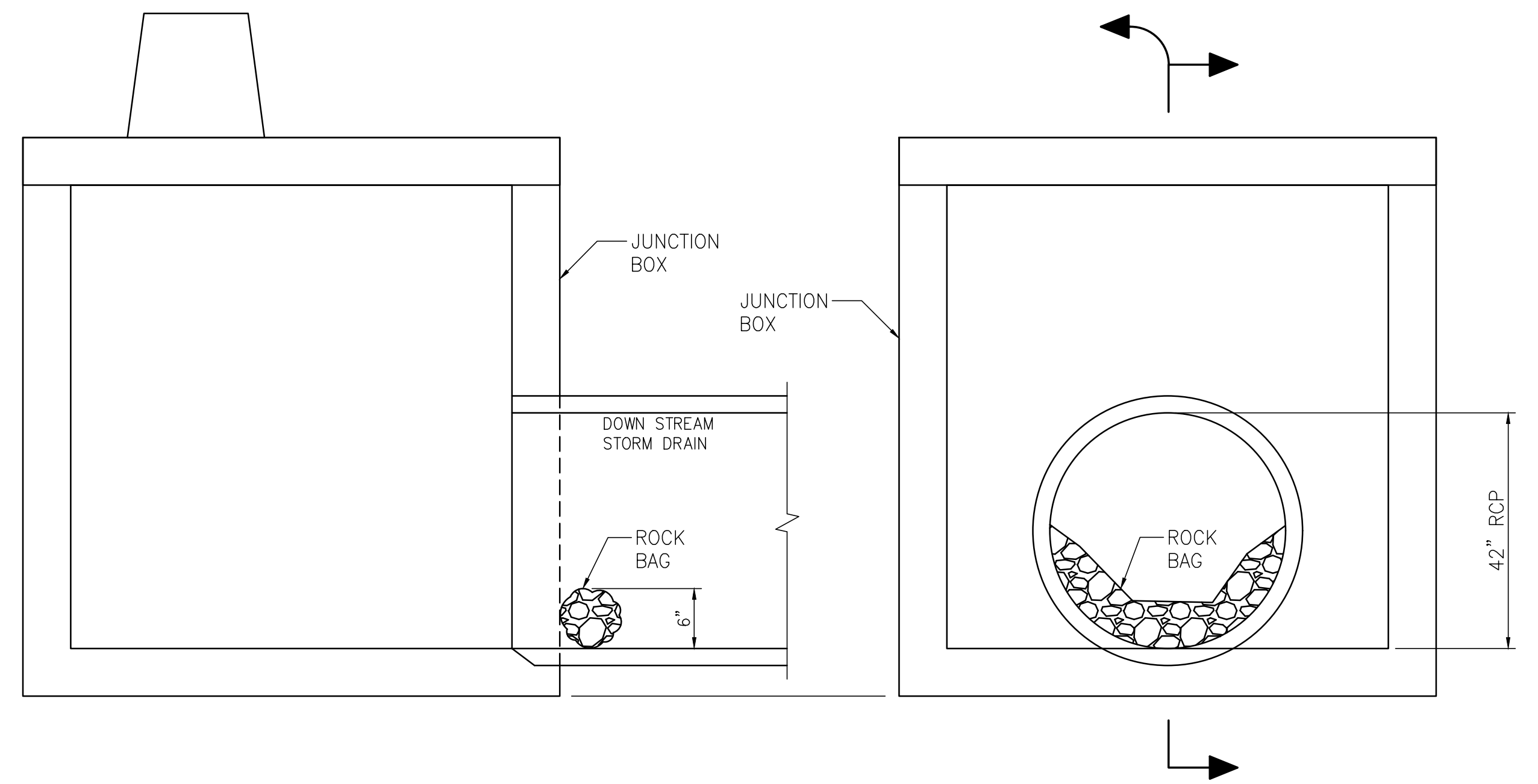
APMT PHASE IV YARD EXPANSION	
SOIL EROSION & SEDIMENT CONTROL	
PARTIAL PLAN (SHT. 2 OF 2)	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: C2
REVISION: A	



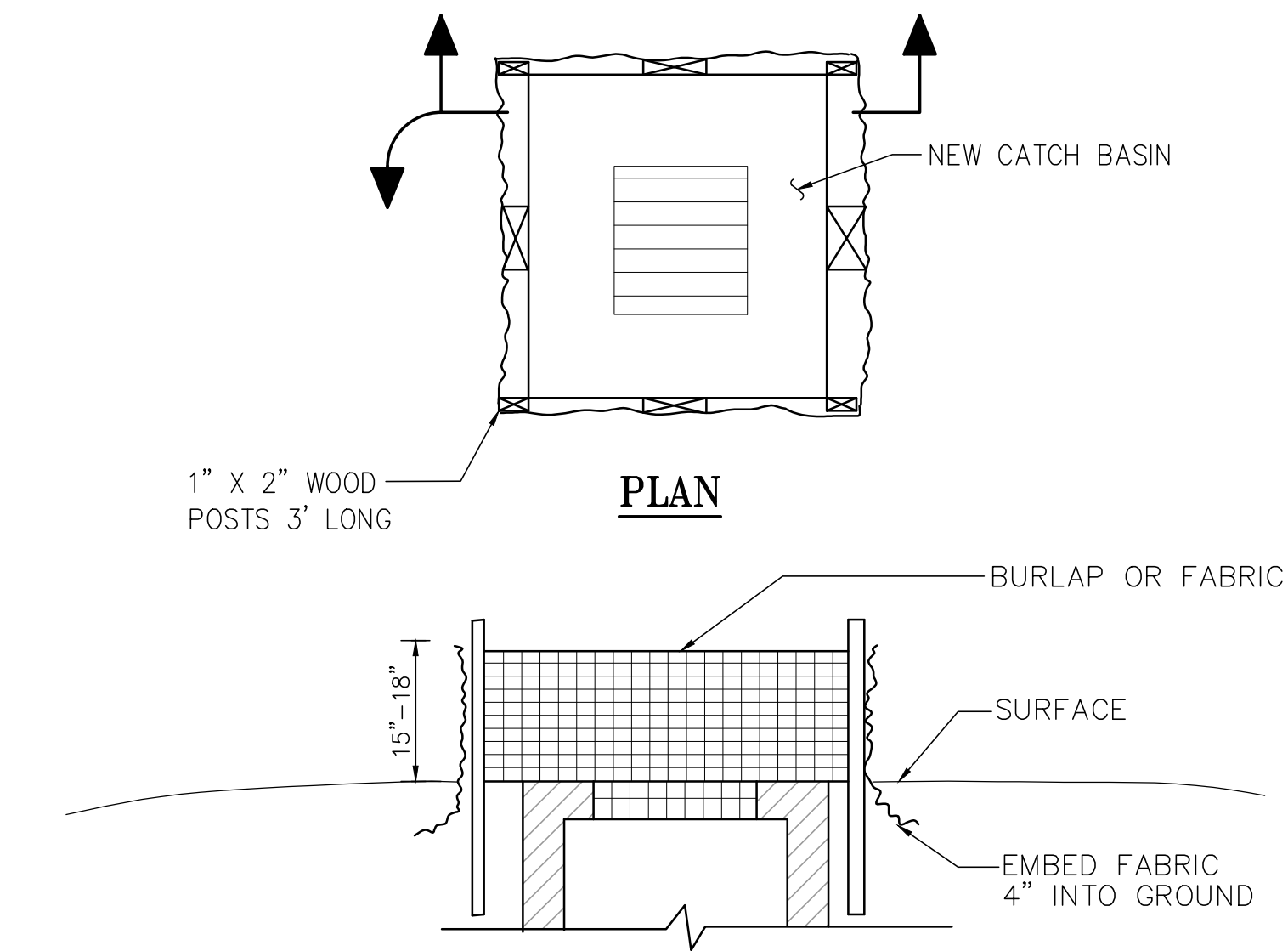
**SILT FENCE TYPE "A" DETAIL (TYP)**  
N.T.S.



**SECTION A**  
N.T.S.



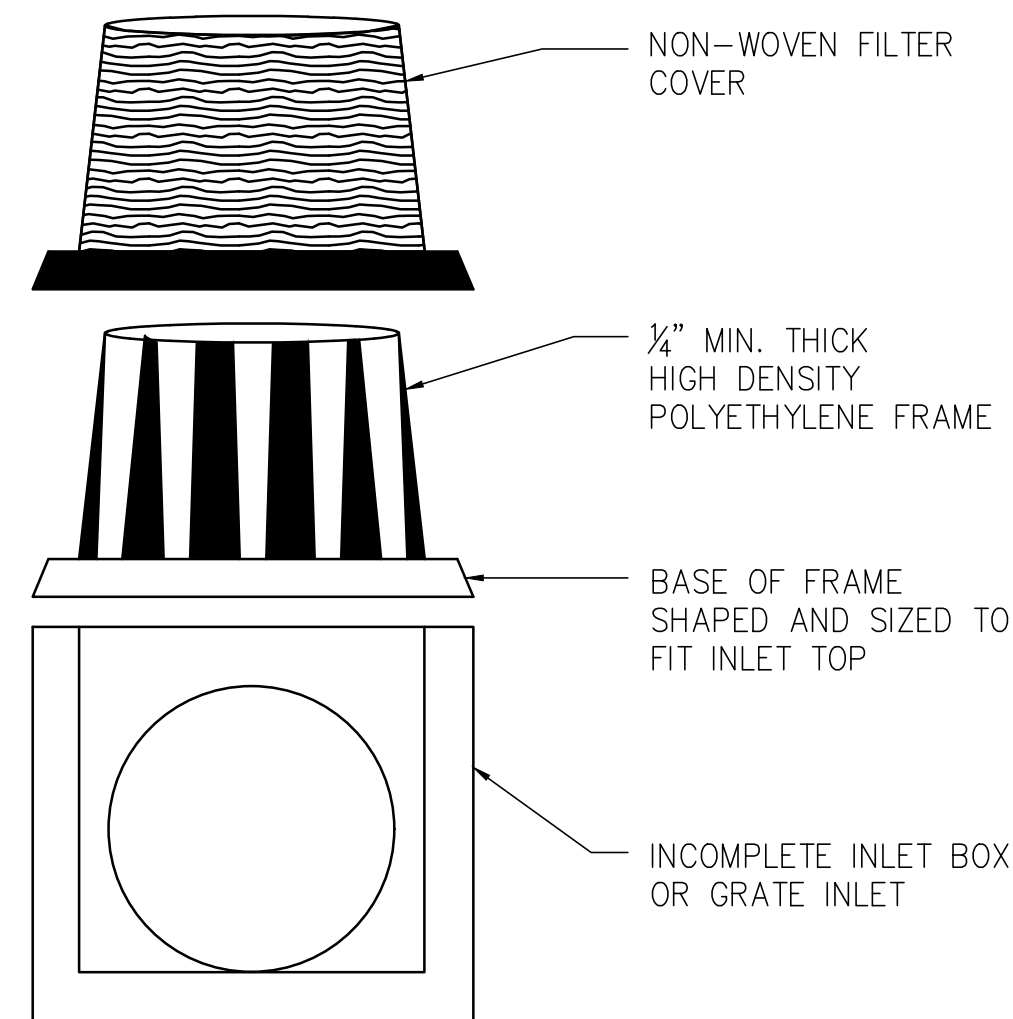
**ROCK BAG PLACEMENT DETAIL**  
N.T.S.



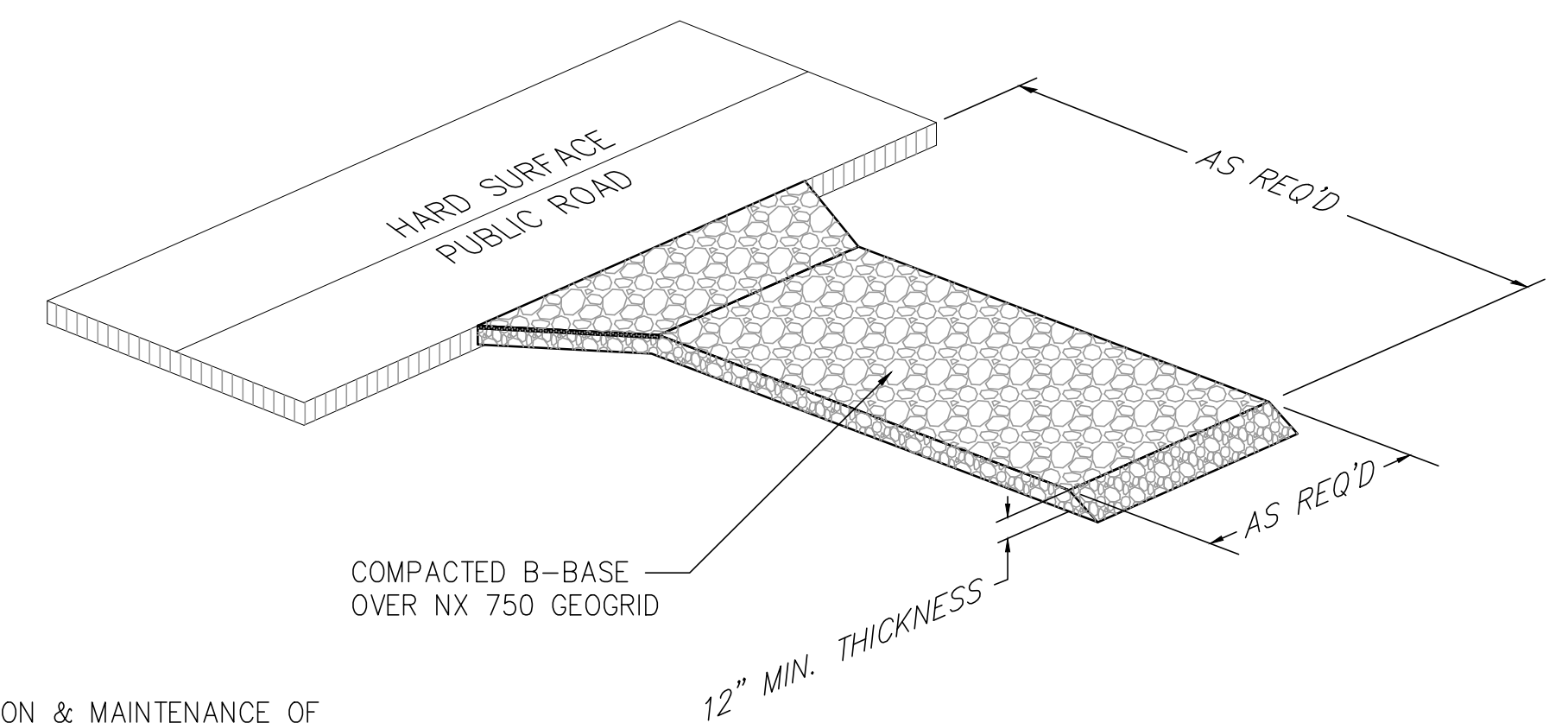
**FABRIC DROP INLET PROTECTION DETAIL**  
N.T.S.

**TYPICAL CONSTRUCTION SEQUENCE FOR SILT-SAVER FRAME & FILTER:**

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



**FIP ALTERNATE INLET SEDIMENT BARRIER DETAIL**  
N.T.S.



**NOTE:**  
CONSTRUCTION & MAINTENANCE OF TEMPORARY GRAVEL CONSTRUCTION ENTRANCE & HAULAGE ROAD WILL BE A SUBSIDIARY OBLIGATION OF THE PROJECT WITH NO DIRECT PAY.

**ISOMETRIC VIEW**

**CONSTRUCTION EXIT PAD DETAIL**  
N.T.S.

**NOTE:**  
STRAW BALES MAY BE USED IN LIEU OF FABRIC AROUND CATCH BASINS. BALES SHALL BE EMBEDDED 4" INTO GROUND AND SECURELY STAKED IN PLACE. PLACE FABRIC A MINIMUM OF 12" OUTSIDE OF BOX.



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
SOIL EROSION & SEDIMENT  
DETAILS & NOTES

FOR: ALABAMA PORT AUTHORITY

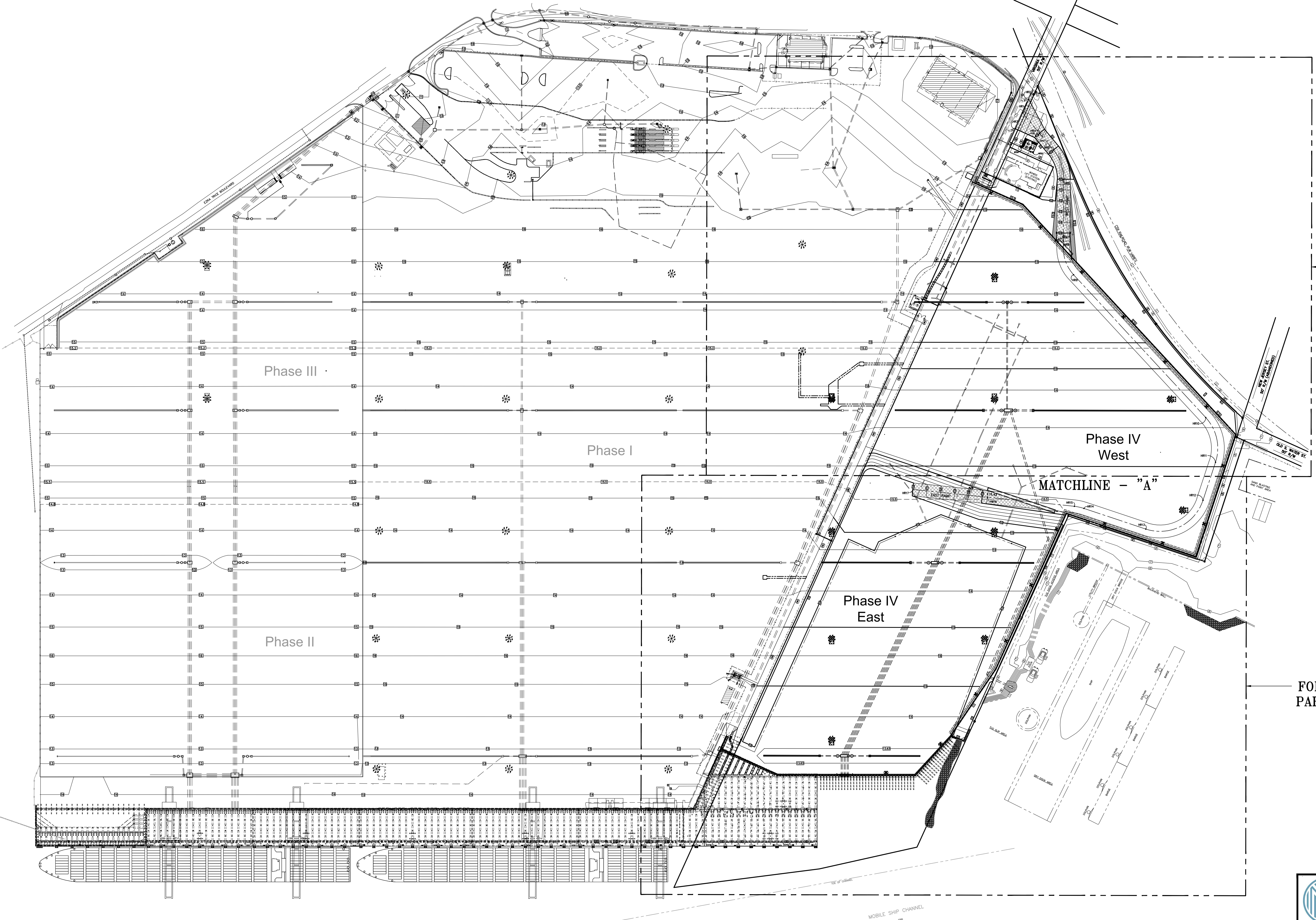
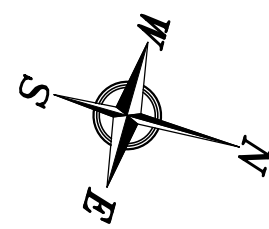
PROJECT NO: 4484 | DWG NO: C3 | REV: A



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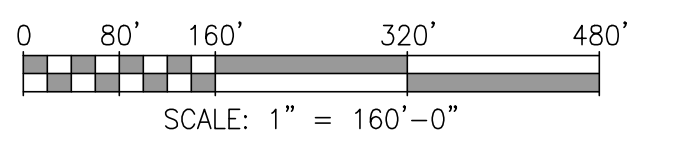
DRAWN: RST | CK'D: MED | APP'D: RSG | DATE: 04/04/22 | SCALE: NONE

NO.	REVISION	DRAWN	CK'D	APP'D	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24



FOR GRADING & DRAINAGE  
PARTIAL PLAN SEE DWG C5

FOR GRADING & DRAINAGE  
PARTIAL PLAN SEE DWG C6



**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 1 ASPA DWG NO:

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.  
2. SEE DRAWING G6 FOR PROJECT LIMITS.

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	RST	MED	RSG

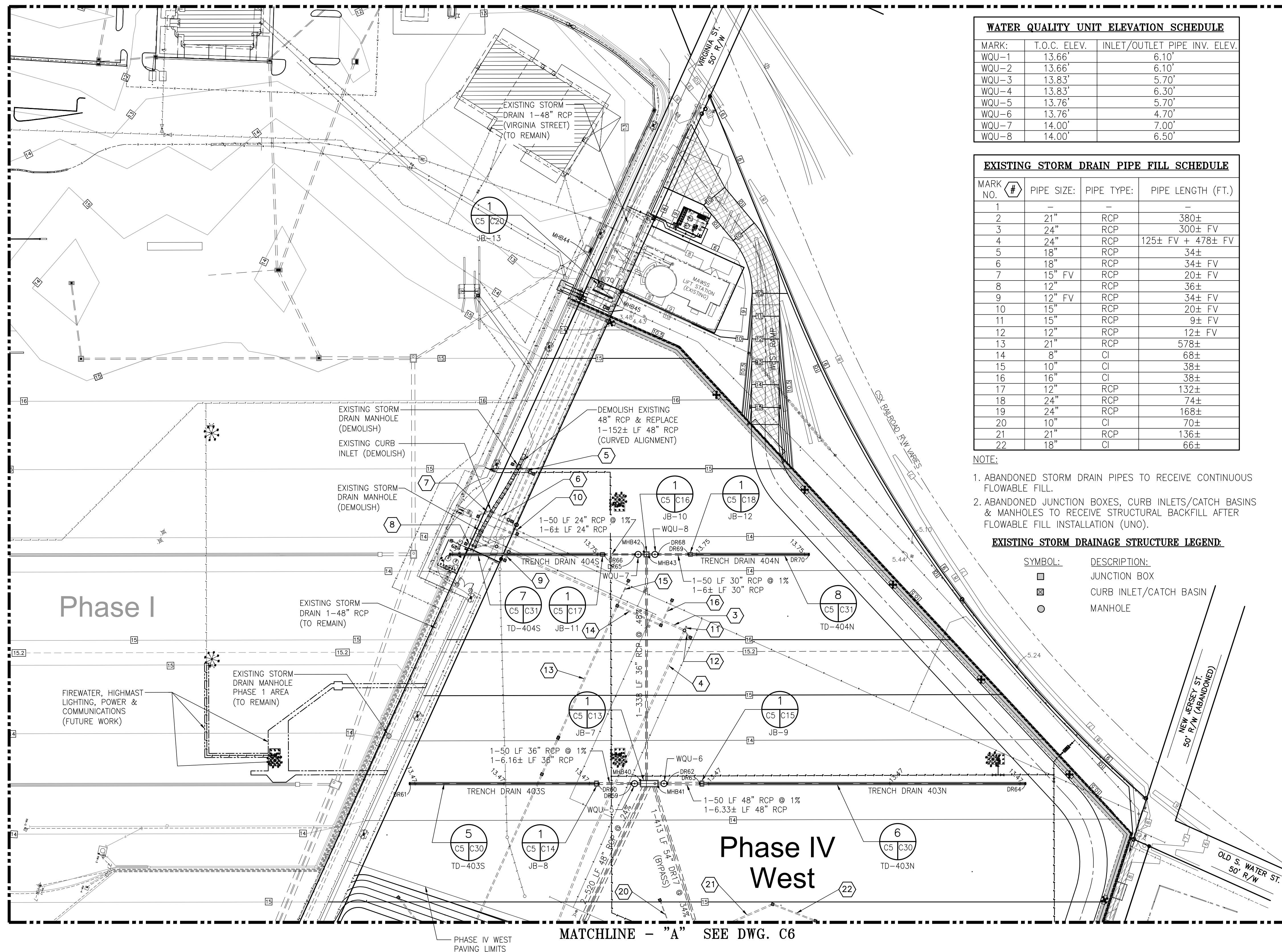
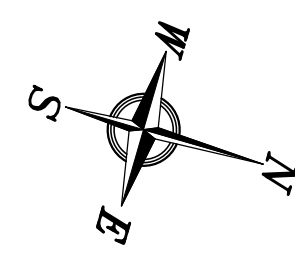


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APMT PHASE IV YARD EXPANSION  
GRADING & DRAINAGE  
OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: C4 REV: A



WATER QUALITY UNIT ELEVATION SCHEDULE		
MARK:	T.O.C. ELEV.	INLET/OUTLET PIPE INV. ELEV.
WQU-1	13.66'	6.10'
WQU-2	13.66'	6.10'
WQU-3	13.83'	5.70'
WQU-4	13.83'	6.30'
WQU-5	13.76'	5.70'
WQU-6	13.76'	4.70'
WQU-7	14.00'	7.00'
WQU-8	14.00'	6.50'

EXISTING STORM DRAIN PIPE FILL SCHEDULE				
MARK NO.	#	PIPE SIZE:	PIPE TYPE:	PIPE LENGTH (FT.)
1				
2		21"	RCP	380±
3		24"	RCP	300± FV
4		24"	RCP	125± FV + 478± FV
5		18"	RCP	34±
6		18"	RCP	34± FV
7		15"	FV	RCP 20± FV
8		12"	RCP	36±
9		12"	FV	RCP 34± FV
10		15"	RCP	20± FV
11		15"	RCP	9± FV
12		12"	RCP	12± FV
13		21"	RCP	578±
14		8"	CI	68±
15		10"	CI	38±
16		16"	CI	38±
17		12"	RCP	132±
18		24"	RCP	74±
19		24"	RCP	168±
20		10"	CI	70±
21		21"	RCP	136±
22		18"	CI	66±

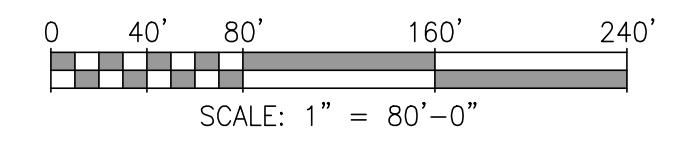
NOTE:  
 1. ABANDONED STORM DRAIN PIPES TO RECEIVE CONTINUOUS FLOWABLE FILL.  
 2. ABANDONED JUNCTION BOXES, CURB INLETS/CATCH BASINS & MANHOLES TO RECEIVE STRUCTURAL BACKFILL AFTER FLOWABLE FILL INSTALLATION (UNO).

EXISTING STORM DRAINAGE STRUCTURE LEGEND:	
SYMBOL:	DESCRIPTION:
□	JUNCTION BOX
⊠	CURB INLET/CATCH BASIN
○	MANHOLE

NODE ID	NORTHING	EASTING
MHB36	244363.35	180031.33
MHB37	244392.02	180031.46
MHB38	244467.43	179947.66
MHB39	244493.19	179947.59
MHB40	244552.89	179896.37
MHB41	244581.12	179896.66
MHB42	244465.64	179863.59
MHB43	244475.54	179864.07
MHB44	244293.52	1798276.81
MHB45	244301.42	1798285.02

NODE ID	NORTHING	EASTING
DR44	244395.41	1800192.58
DR45	244386.46	1800195.14
DR46	244404.30	1800189.98
DR47	244351.96	1800138.77
DR48	244305.77	1800152.03
DR49	244136.64	1800200.65
DR50	244403.38	1800124.00
DR51	244449.56	1800110.73
DR52	244601.41	1800067.11
DR53	244456.04	1799485.09
DR54	244409.92	1799498.31
DR55	244144.67	1799574.53
DR56	244504.55	1799471.13
DR57	244550.73	1799457.87
DR58	244773.71	1799393.81
DR59	244541.75	1798968.74
DR60	244495.66	1798981.99
DR61	244230.40	1799058.21
DR62	244592.20	1798954.24
DR63	244638.06	1798941.07
DR64	245095.60	1798809.68
DR65	244454.22	1798645.02
DR66	244411.72	1798657.24
DR67	244194.50	1798719.64
DR68	244486.93	1798635.64
DR69	244529.46	1798623.42
DR70	244698.62	1798574.84
DR71	244032.50	1800227.43
DR72	244797.71	1799310.15
DR73	244731.24	1799770.88
DR74	244820.32	1799783.73

LEGEND:	
SYMBOL:	DESCRIPTION:
100	INDEX CONTOUR
101	INTERMEDIATE CONTOUR
99.5	SPECIAL CONTOUR
---	RCP/HDPE STORM DRAIN
---	EXIST. STORM DRAIN
---	PROPERTY OR STREET R/W BOUNDARY LINE
13.88	SPOT ELEVATION OR TOP OF TRENCH GRATE, INLET GRATE OR MANHOLE LID ELEVATION
⊙	HIGHMAST LIGHT POLE
⊠	PERIMETER LIGHT POLE
WQU-#	WATER QUALITY UNIT



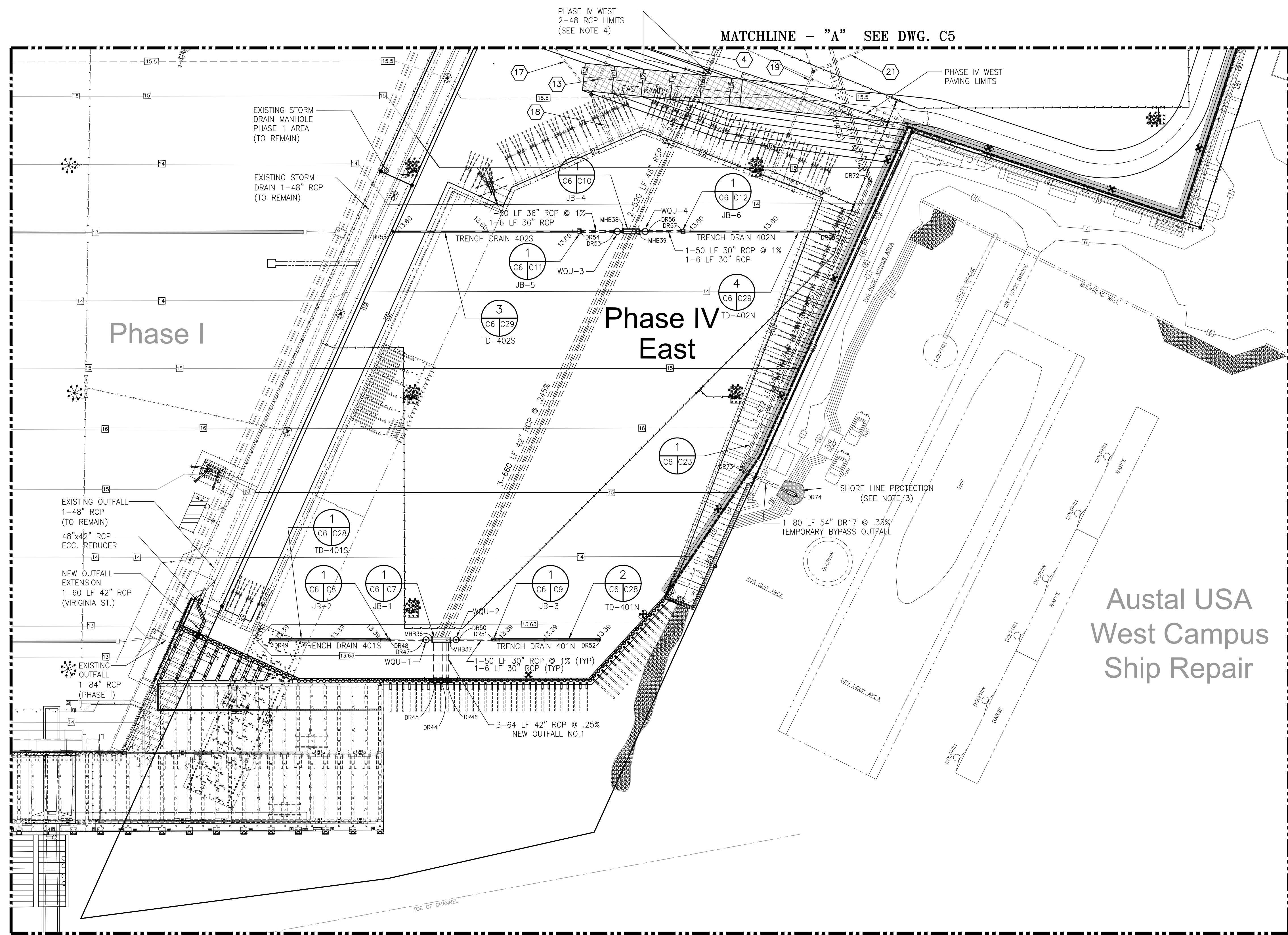
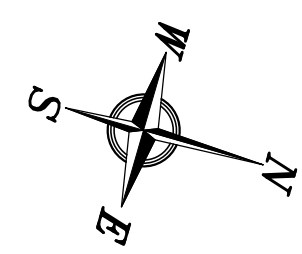
NOTES  
 1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24
	REFERENCE DRAWINGS				

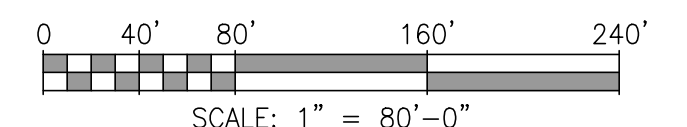
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DRAWN: RST  
 CK'D: MED  
 APPD: RSG  
 DATE: 09/28/22  
 SCALE: 1"=80'

ASPA PROJECT NO: 11261 - TASK 1  
 ASPA DWG NO:  
 APMT PHASE IV YARD EXPANSION  
 GRADING & DRAINAGE  
 PARTIAL PLAN (SHT. 1 OF 2)  
 FOR: ALABAMA PORT AUTHORITY  
 PROJECT NO: 4484  
 DWG NO: C5  
 REV: A



Austal USA  
West Campus  
Ship Repair



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWING C5 FOR SCHEDULES & SYMBOL LEGENDS.
  - CLEAR AND GRUB AREA AROUND OUTFALL PIPE, PLACE FILTER FABRIC AROUND PIPE AND PIN TO SUBGRADE, THEN PLACE (+)1.5' ARMOR STONE OVER 1" BEDDING STONE ACROSS AREA. STONE WORK SHALL EXTEND A MINIMUM OF 10'-0" BEYOND EAST/WEST SIDES AND SPILL END OF OUTFALL PIPE.
  - THE CONTRACTOR SHALL PROVIDE 2-48" RCP PLUGS APPROXIMATELY (20± FT.) BEYOND PHASE IV WEST PAVING LIMITS FOR CONTINUATION OF DRAINAGE SYSTEM DURING PHASE IV EAST BUILD-OUT. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF 48" RCP TIE-IN POINTS & INVERT ELEVATIONS IN AREA DURING SLIP FILL HAULAGE ACTIVITIES.

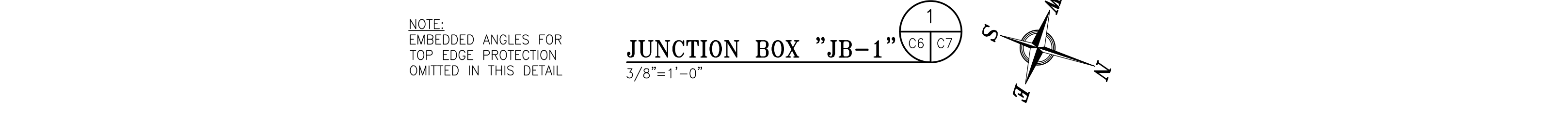
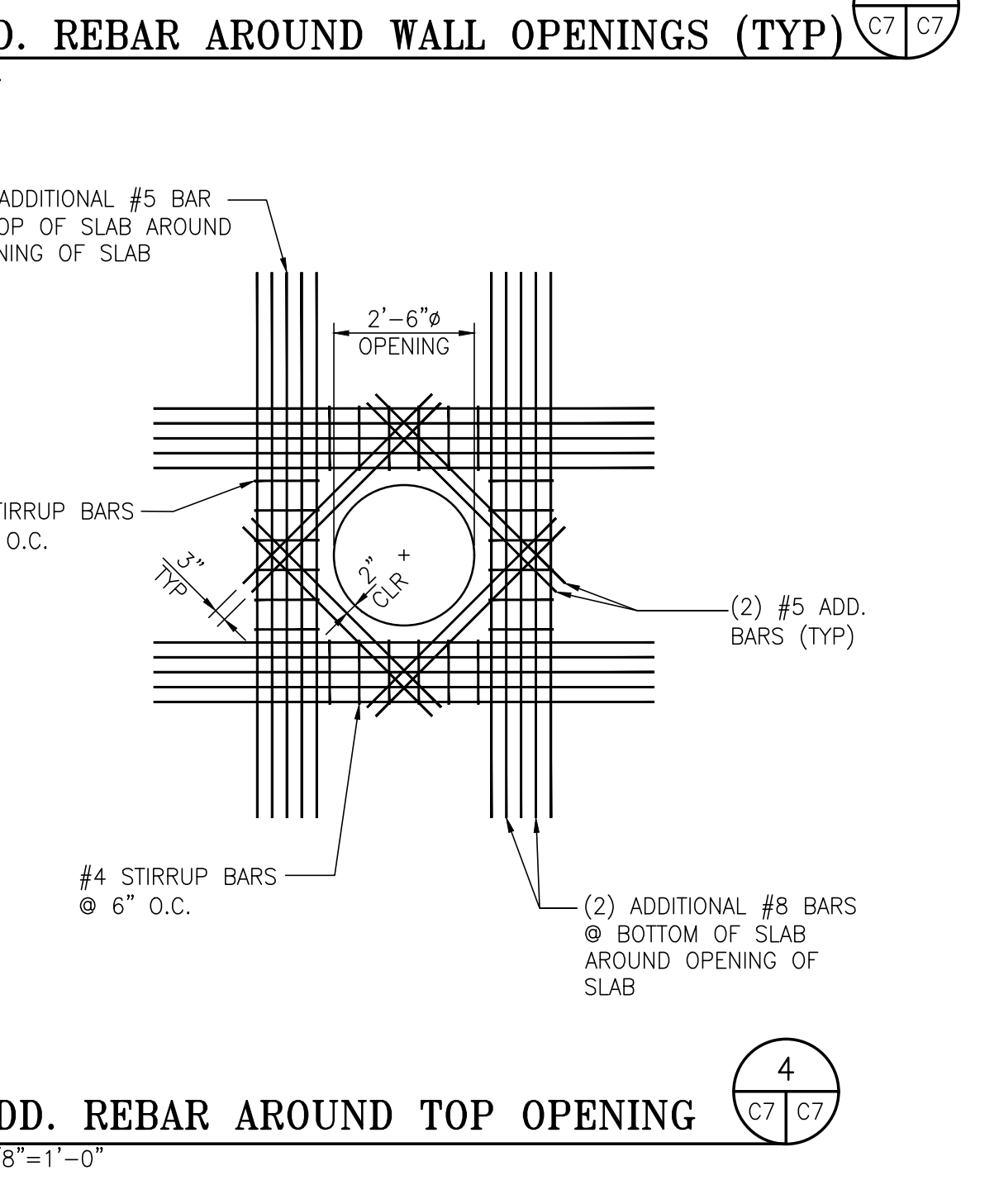
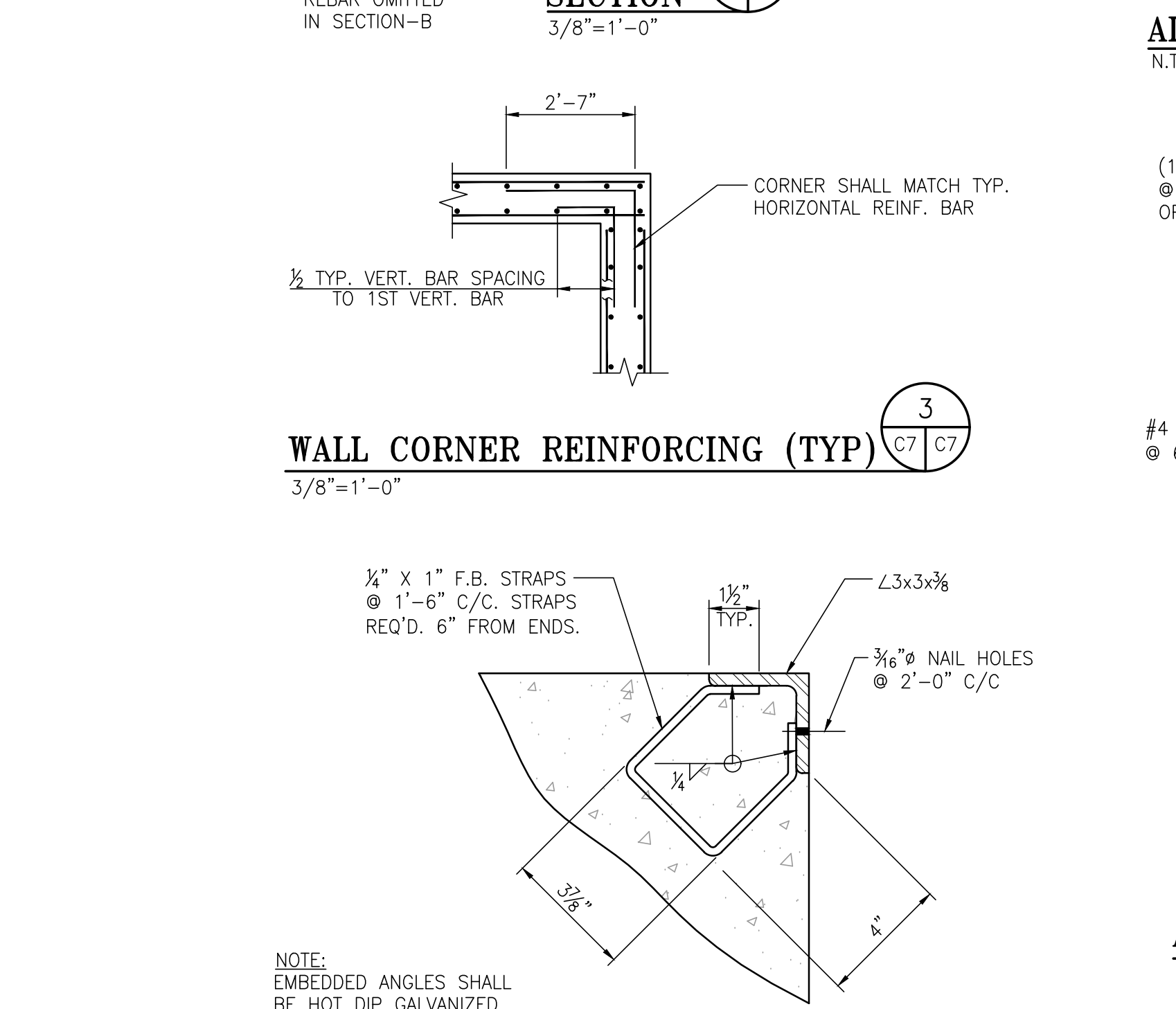
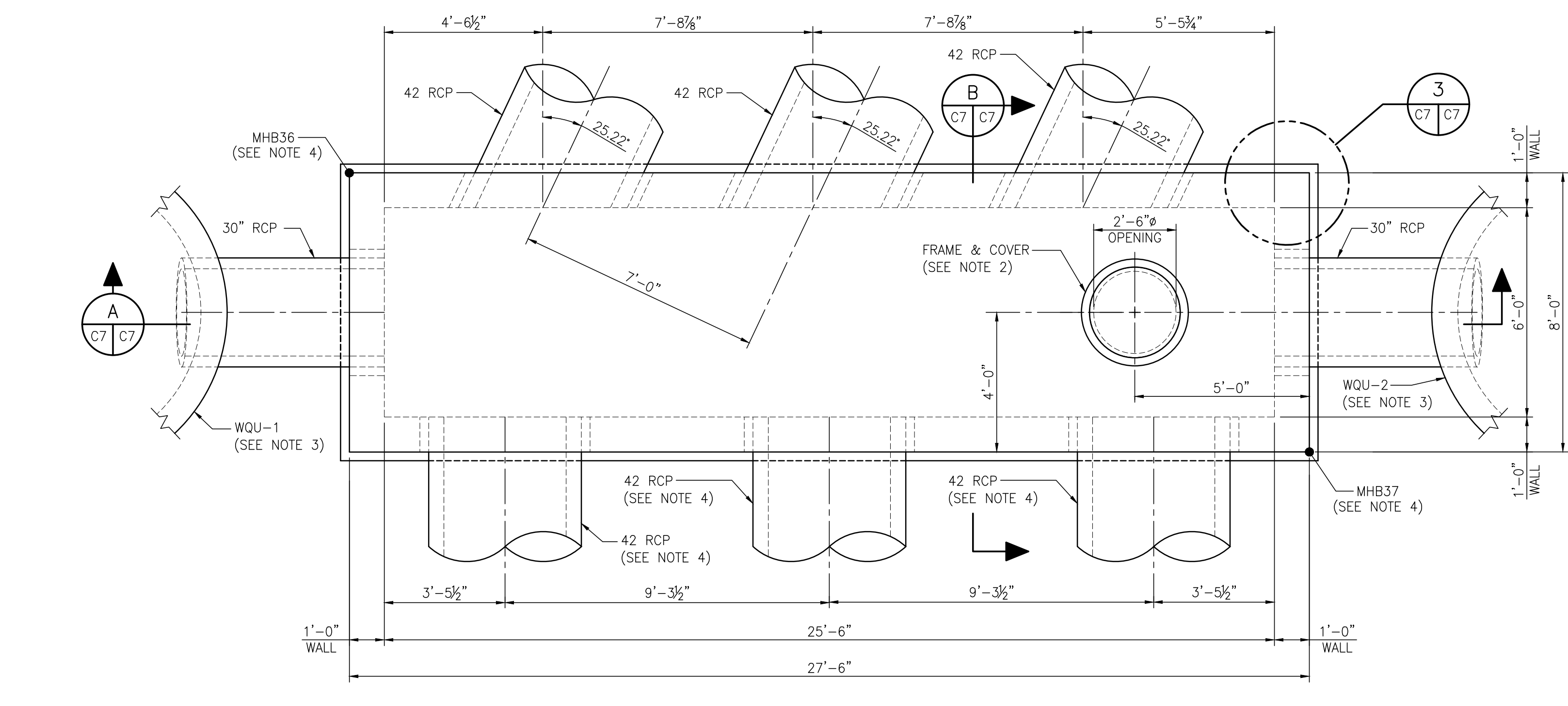
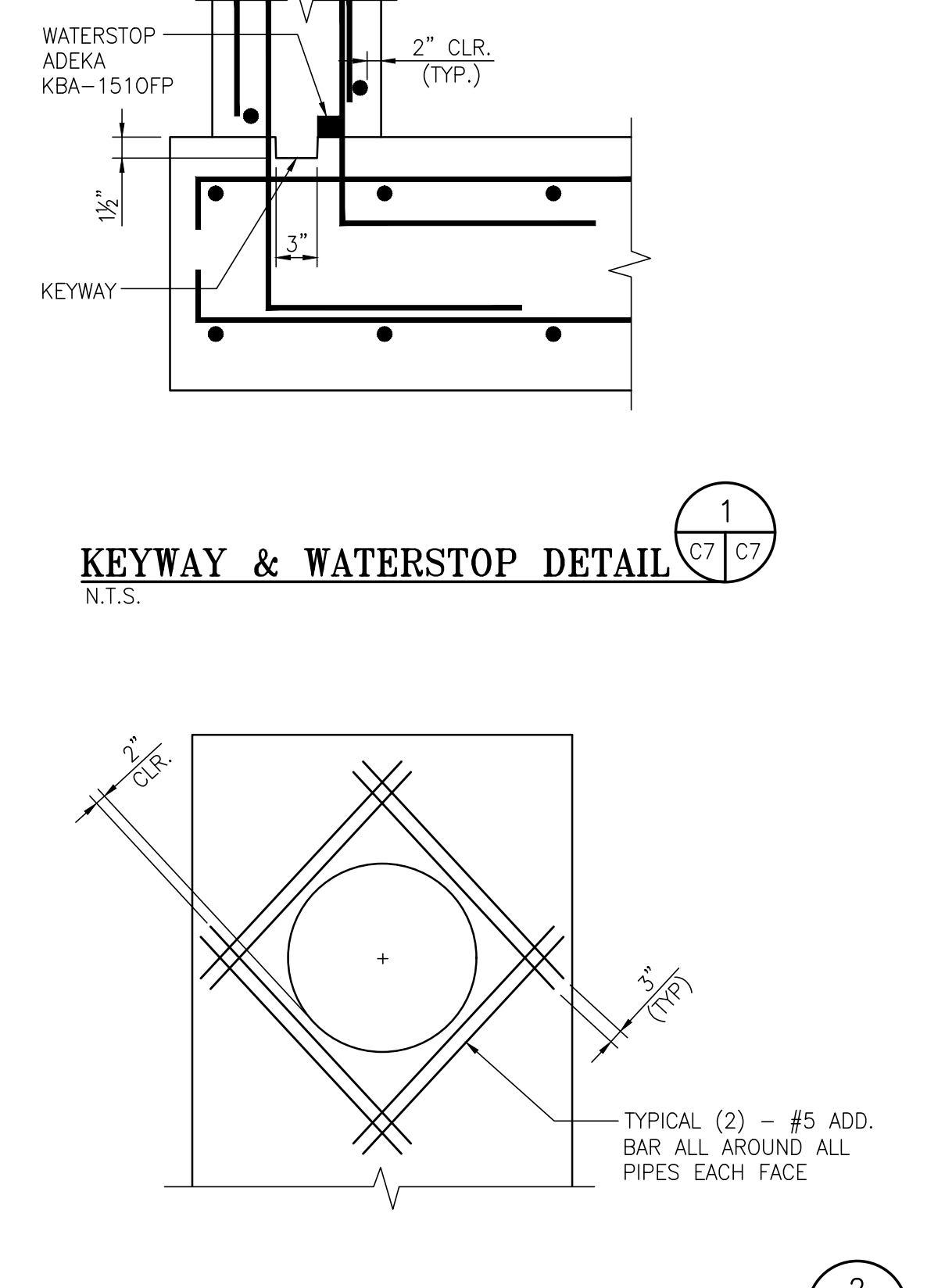
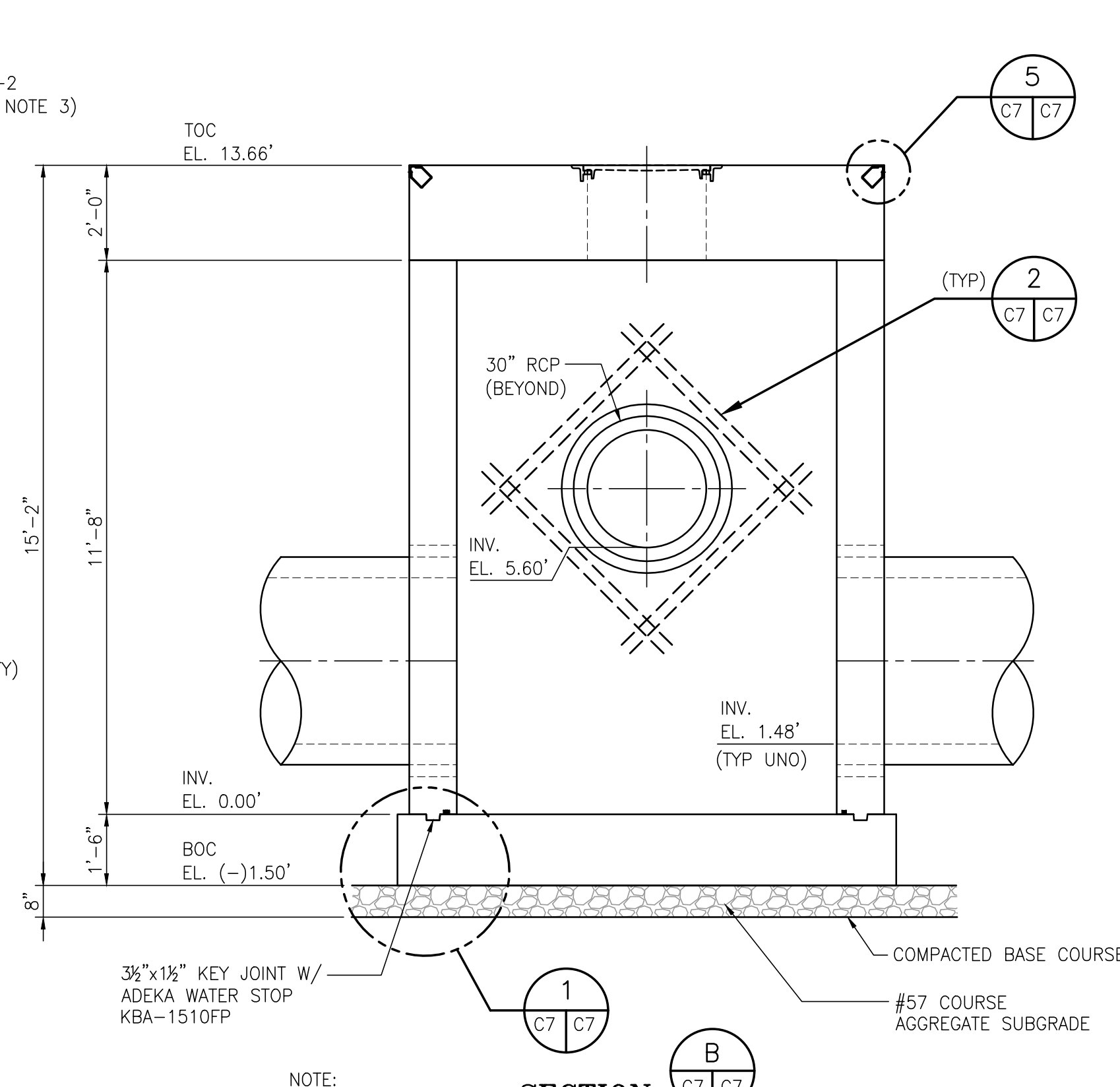
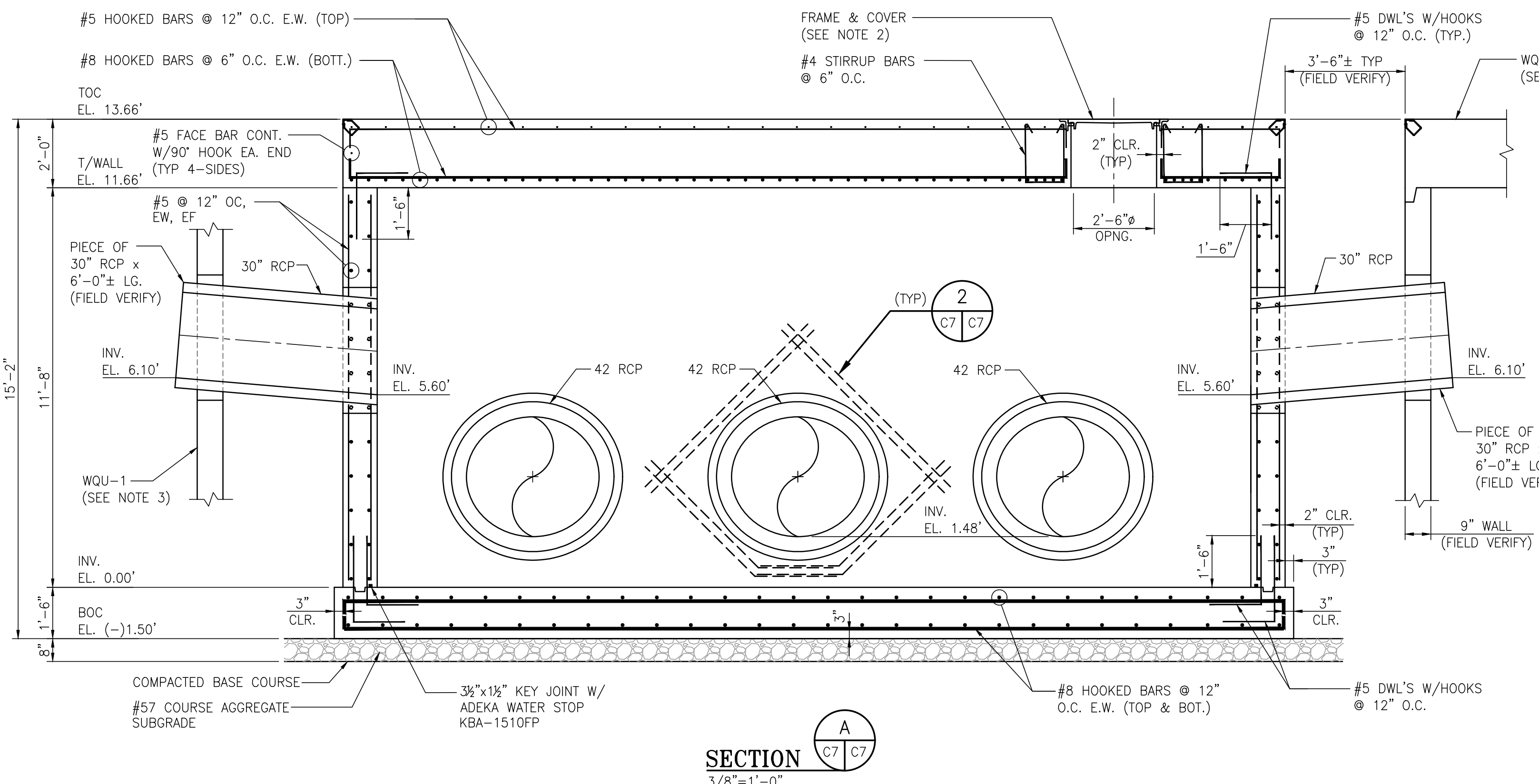
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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APMT PHASE IV YARD EXPANSION  
GRADING & DRAINAGE  
PARTIAL PLAN (SHT. 2 OF 2)

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: C6 REV: A



NOTES:

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS MODEL #1810A2VH V1600-4 AIRPORT RATED MANHOLE FRAME & COVER CAPACITY = 200+ KIPS
- SEE DRAWING C26 FOR SIMILAR STANDARD WATER QUALITY UNIT DETAIL & NOTES. REFER TO VENDOR SUPPLIED SHOP DRAWINGS OF WATER QUALITY UNITS FOR DIMENSIONS & DETAILS DURING INSTALLATION.
- FIELD VERIFY LOCATION & ALIGNMENT OF 3-42" RCP FROM JB-1 TO PENETRATIONS CENTERED BETWEEN 54"Ø KING PILES AT NEW PAZ54/NZ19 COMBINATION (WALL 2) AS SHOWN ON DRAWINGS 4485.02-S6 & S15.

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	RST	MED	RSG

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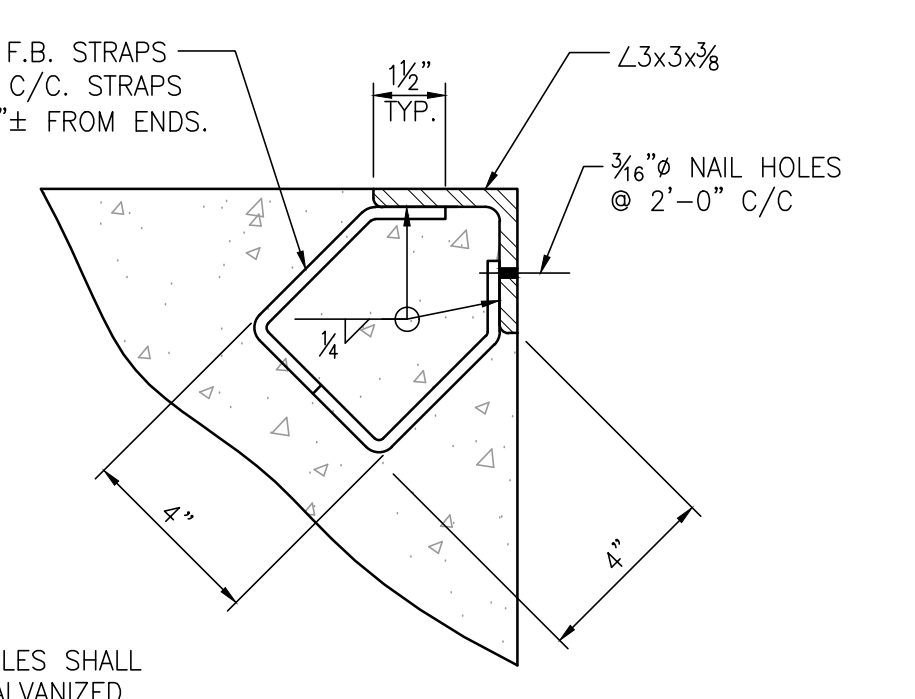
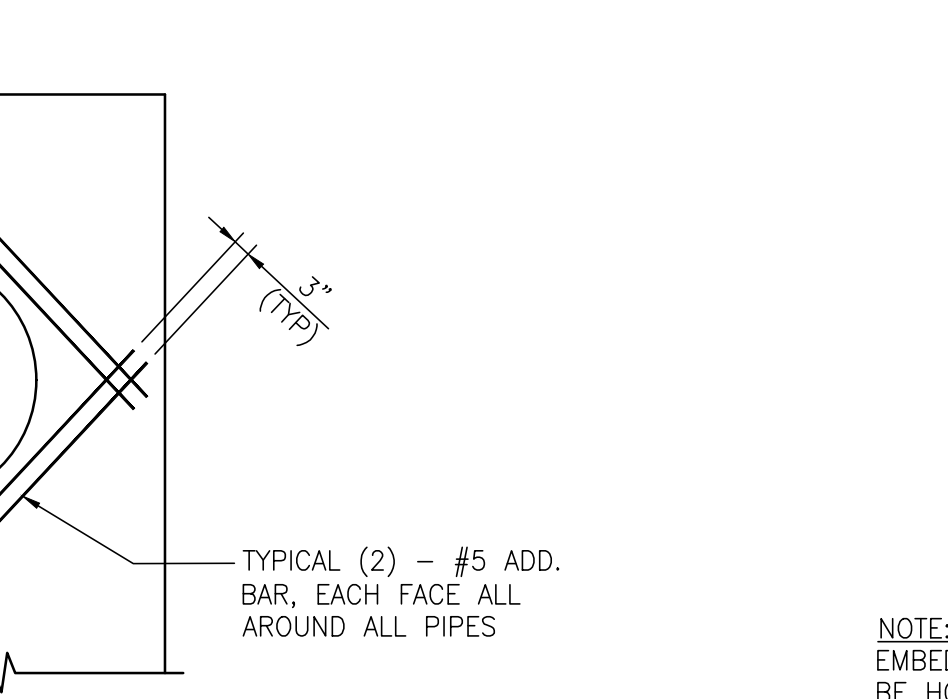
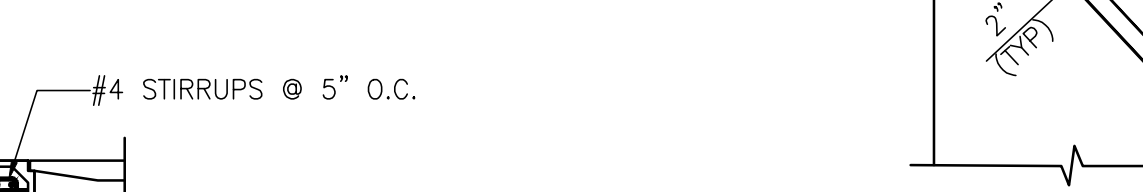
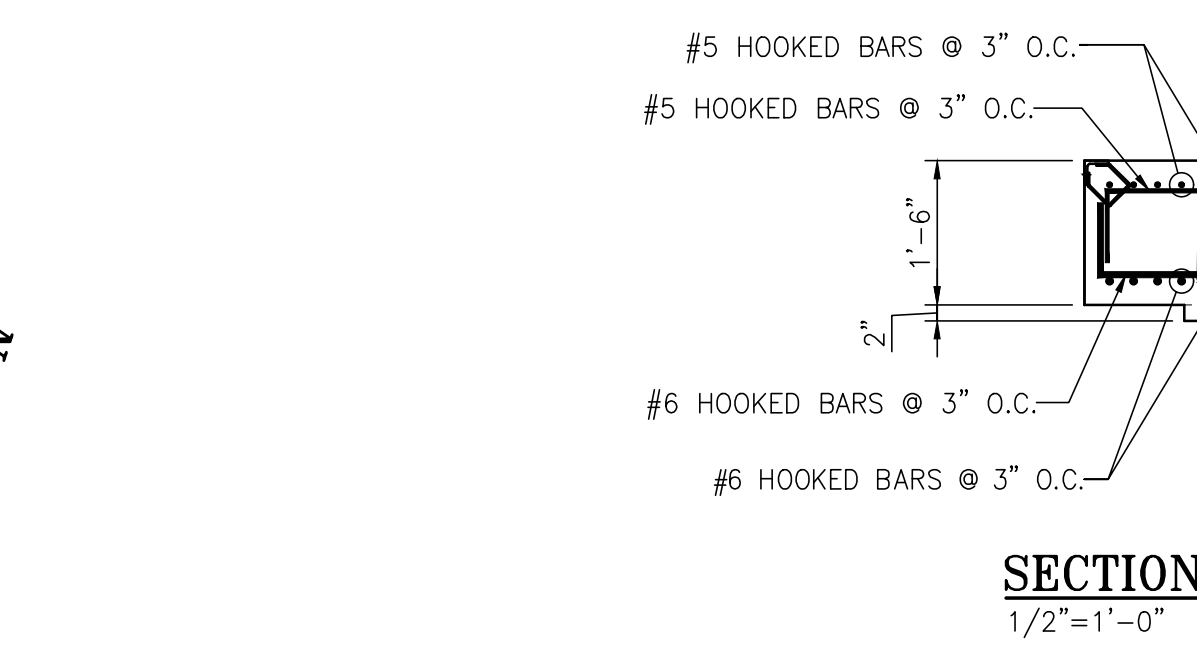
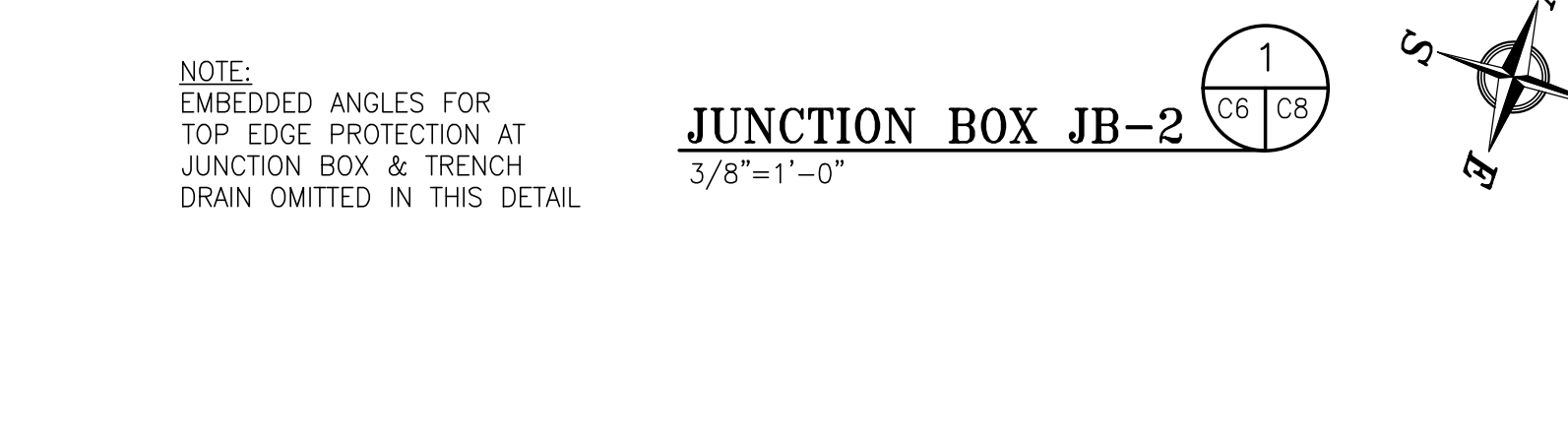
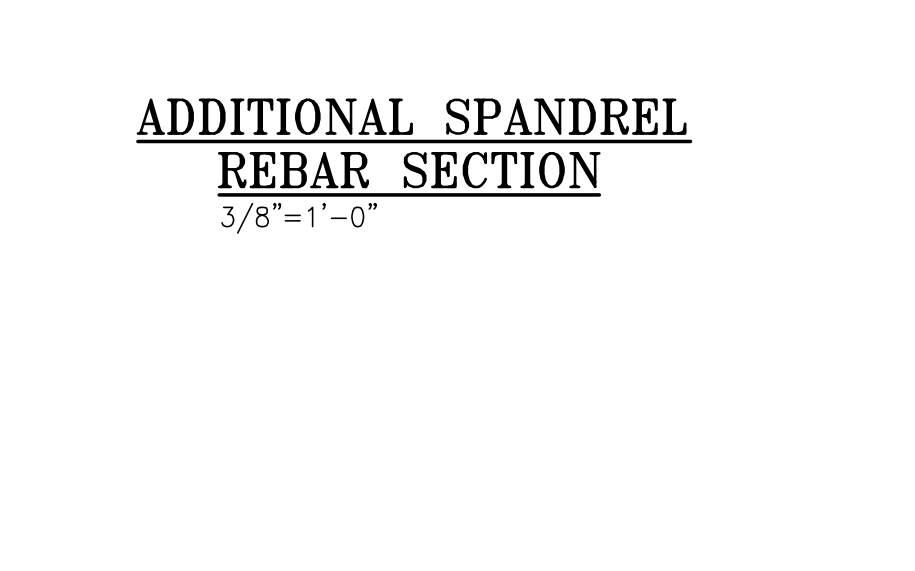
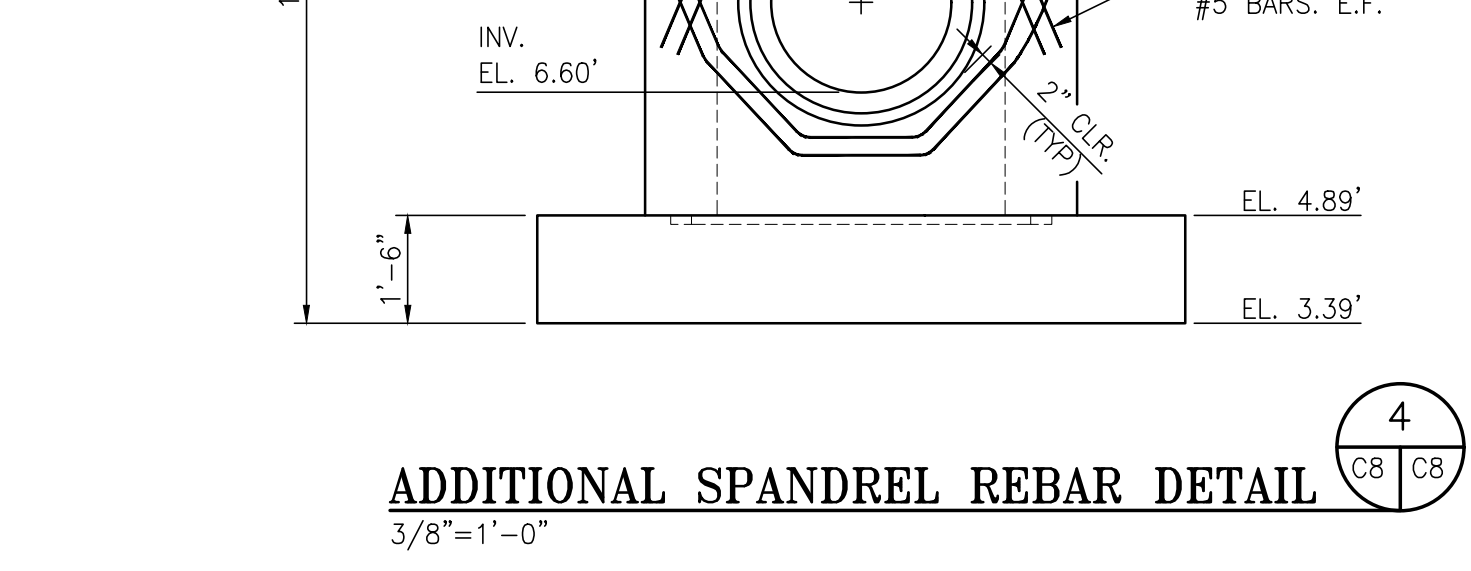
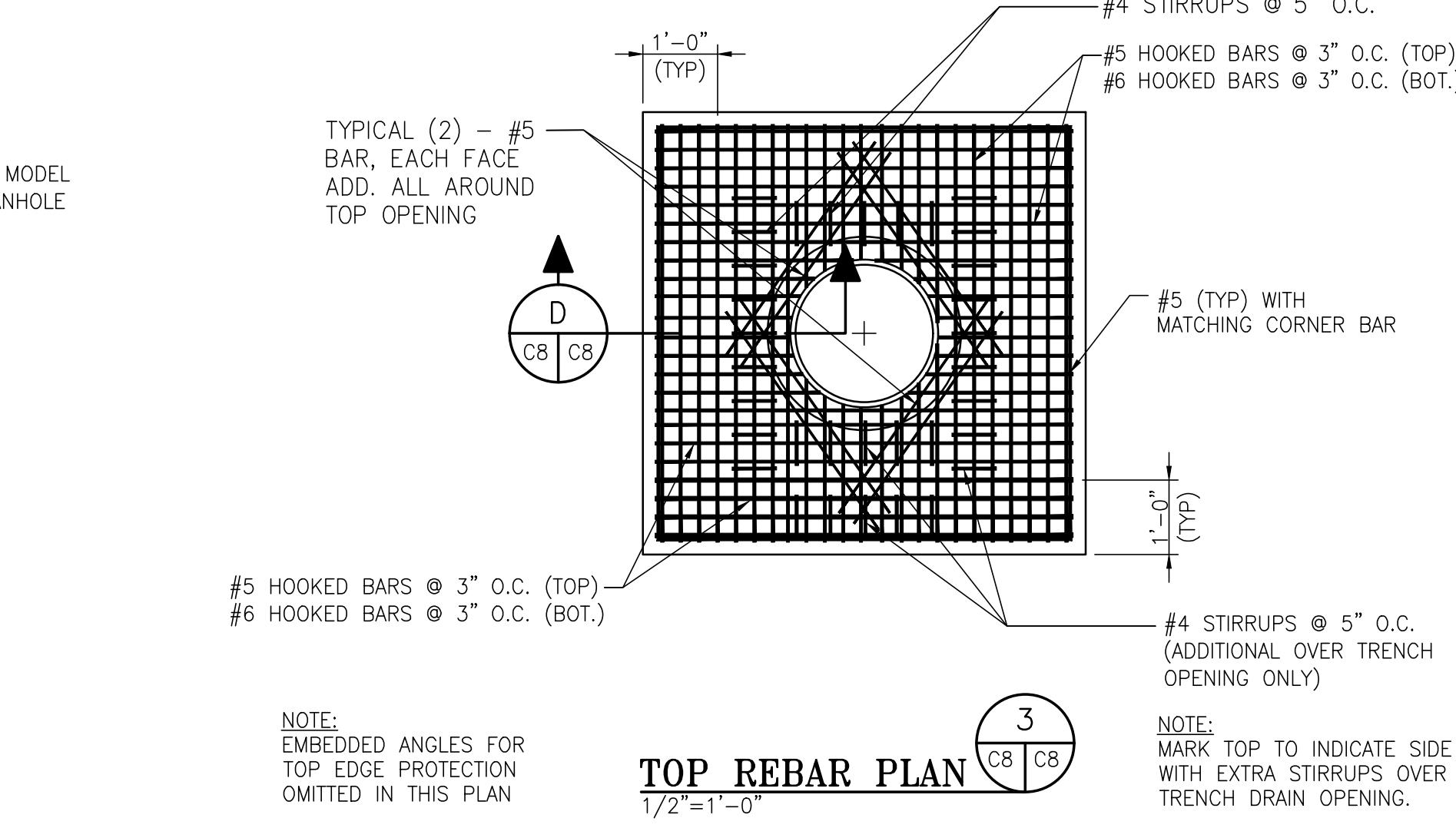
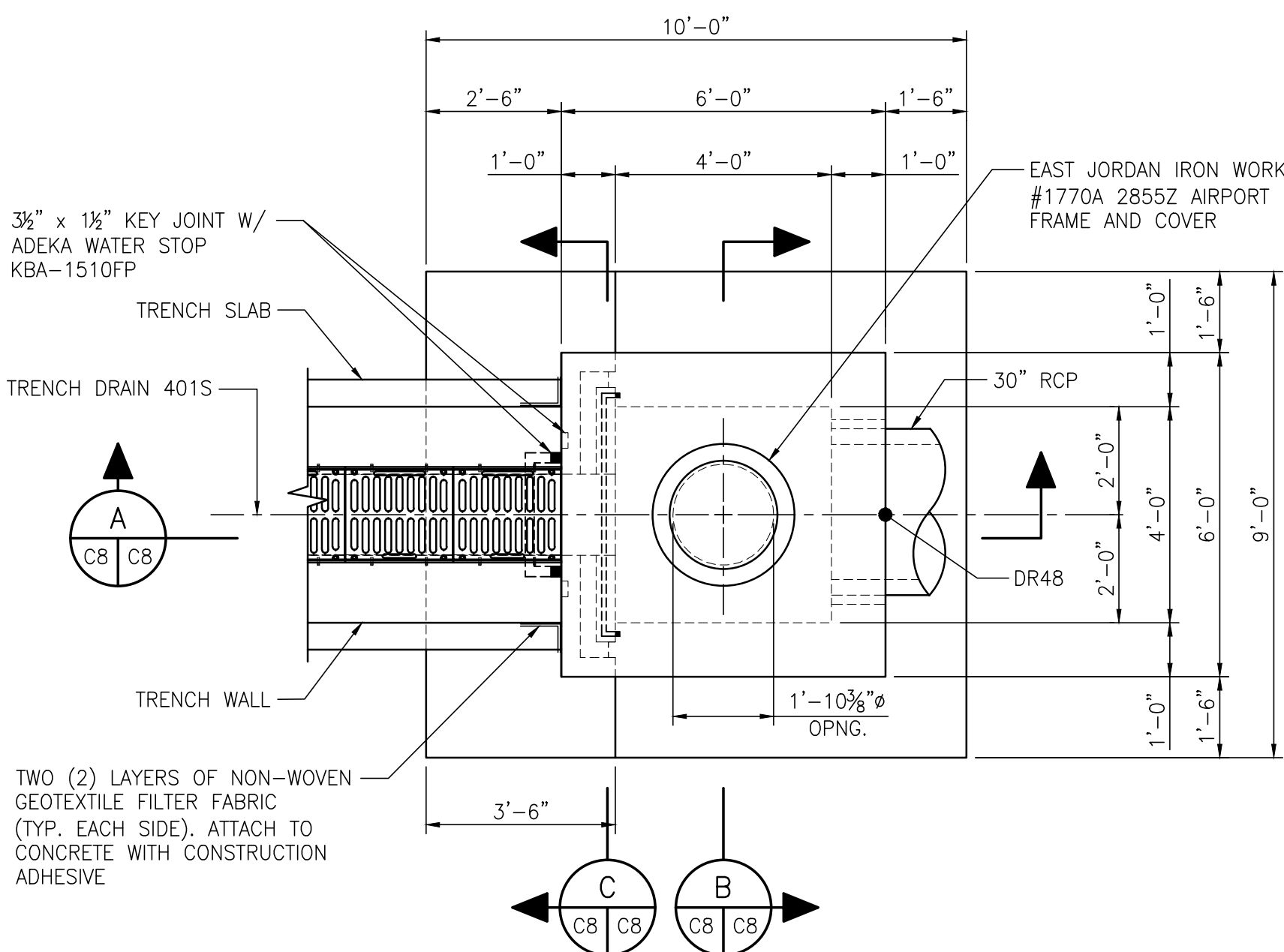
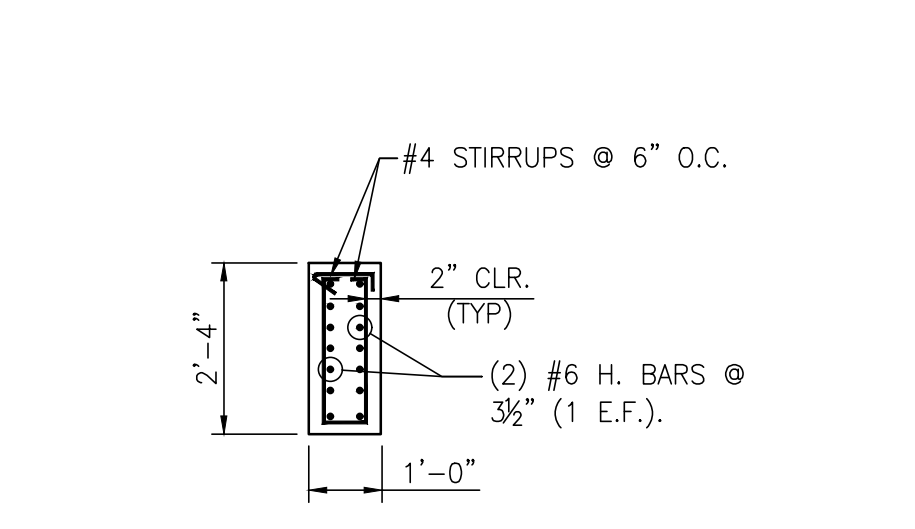
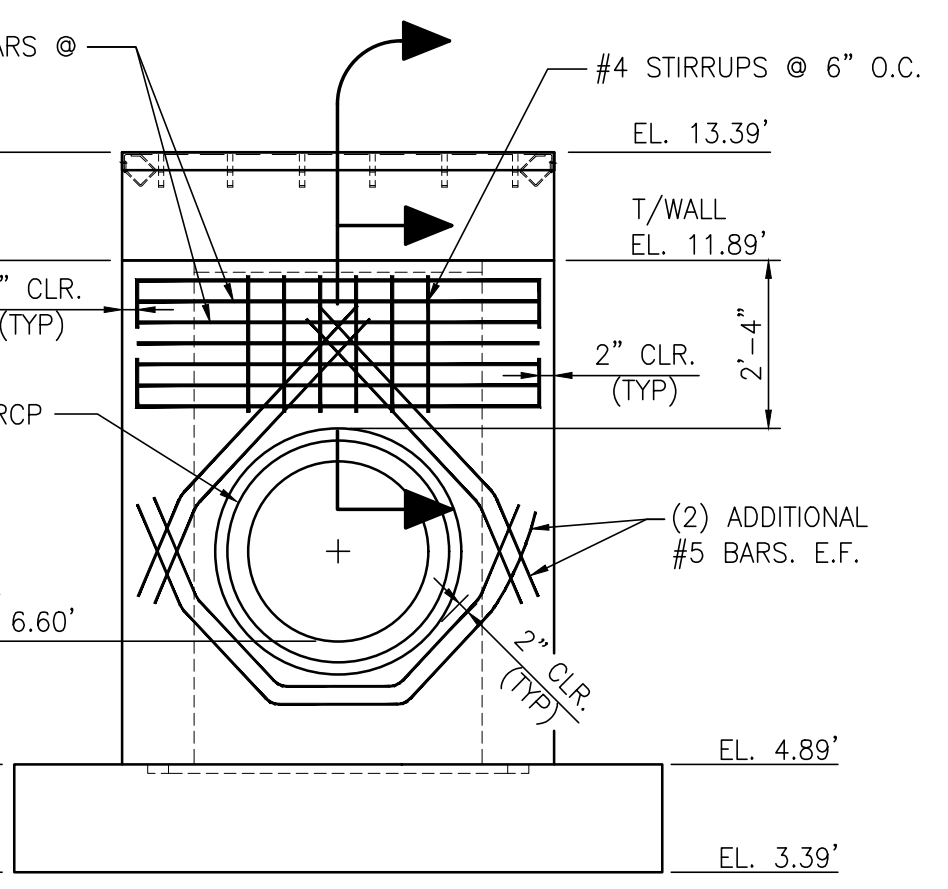
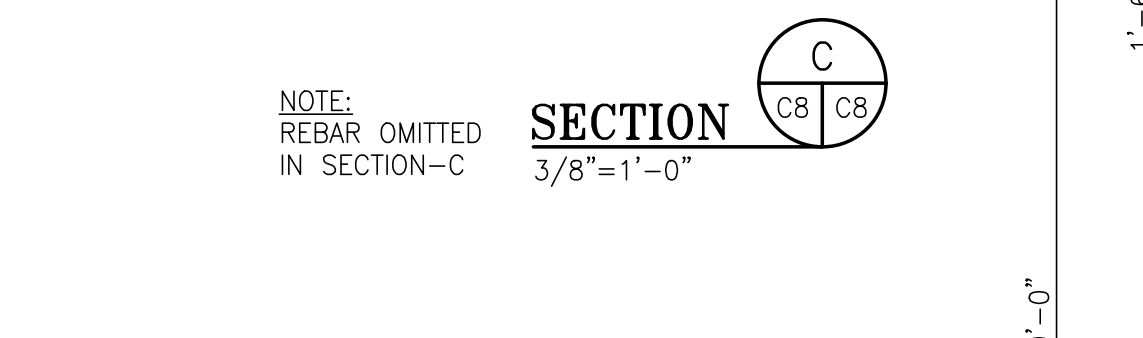
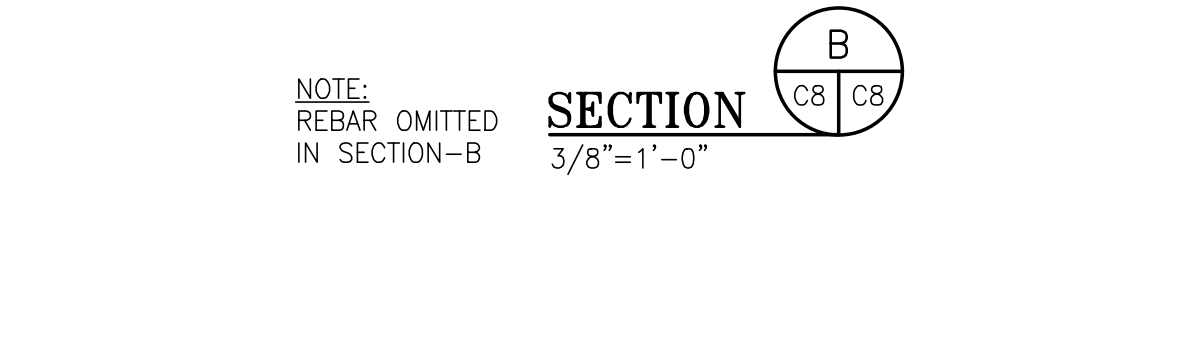
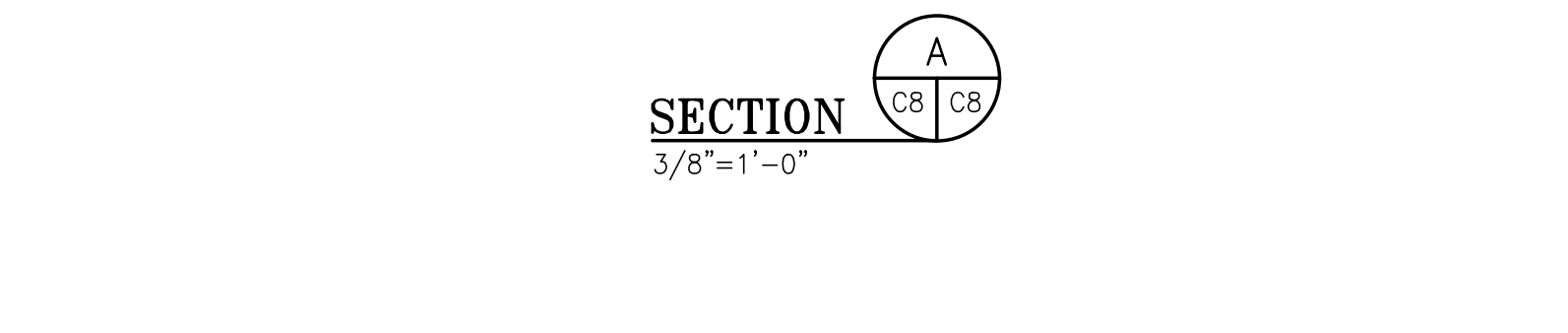
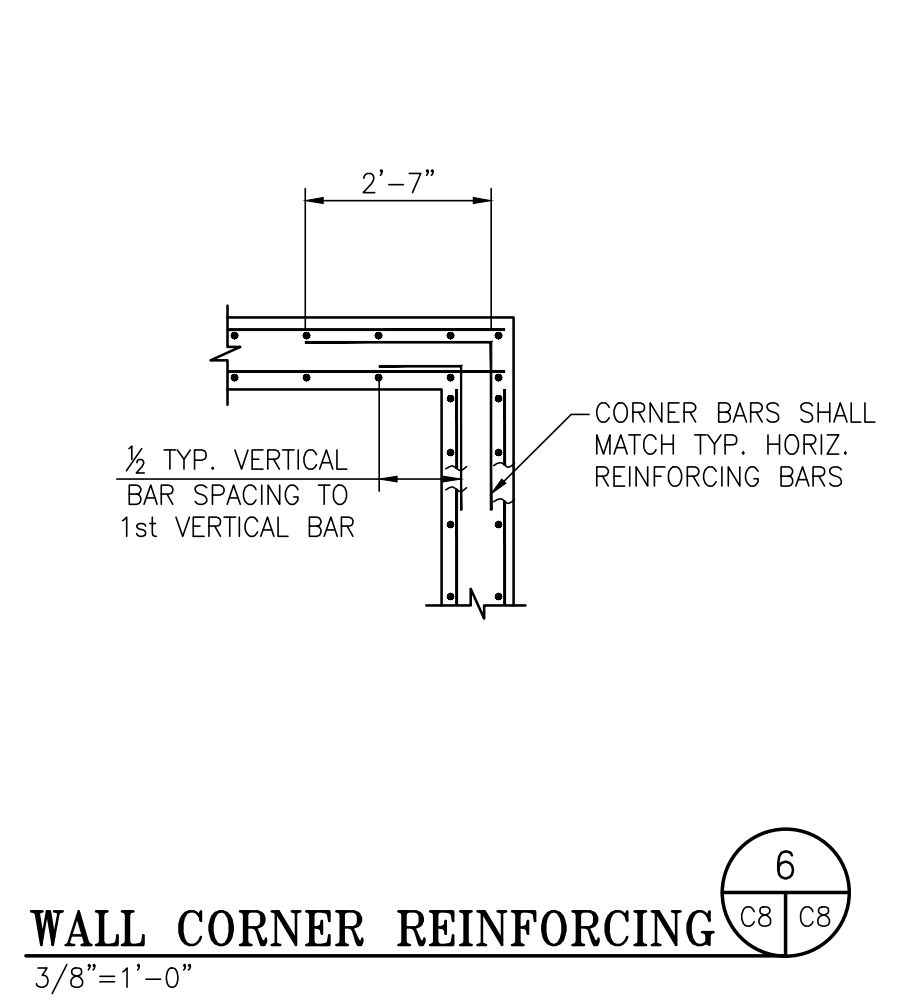
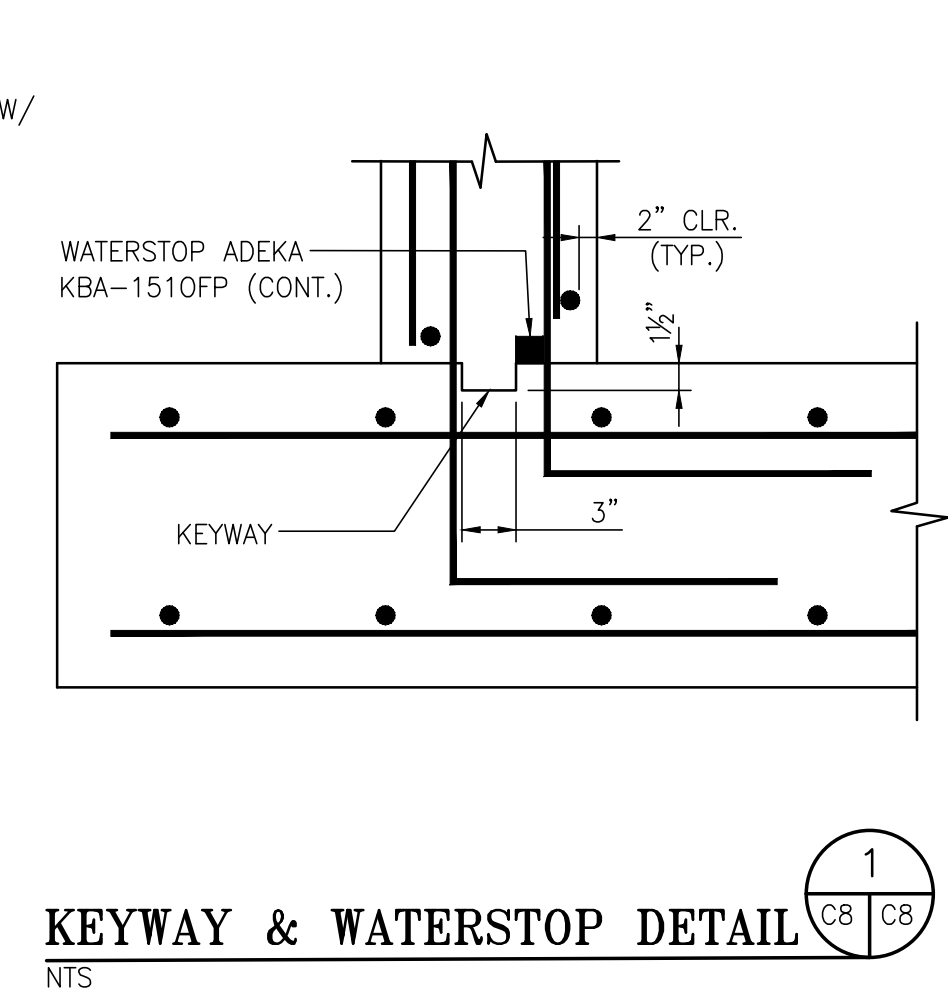
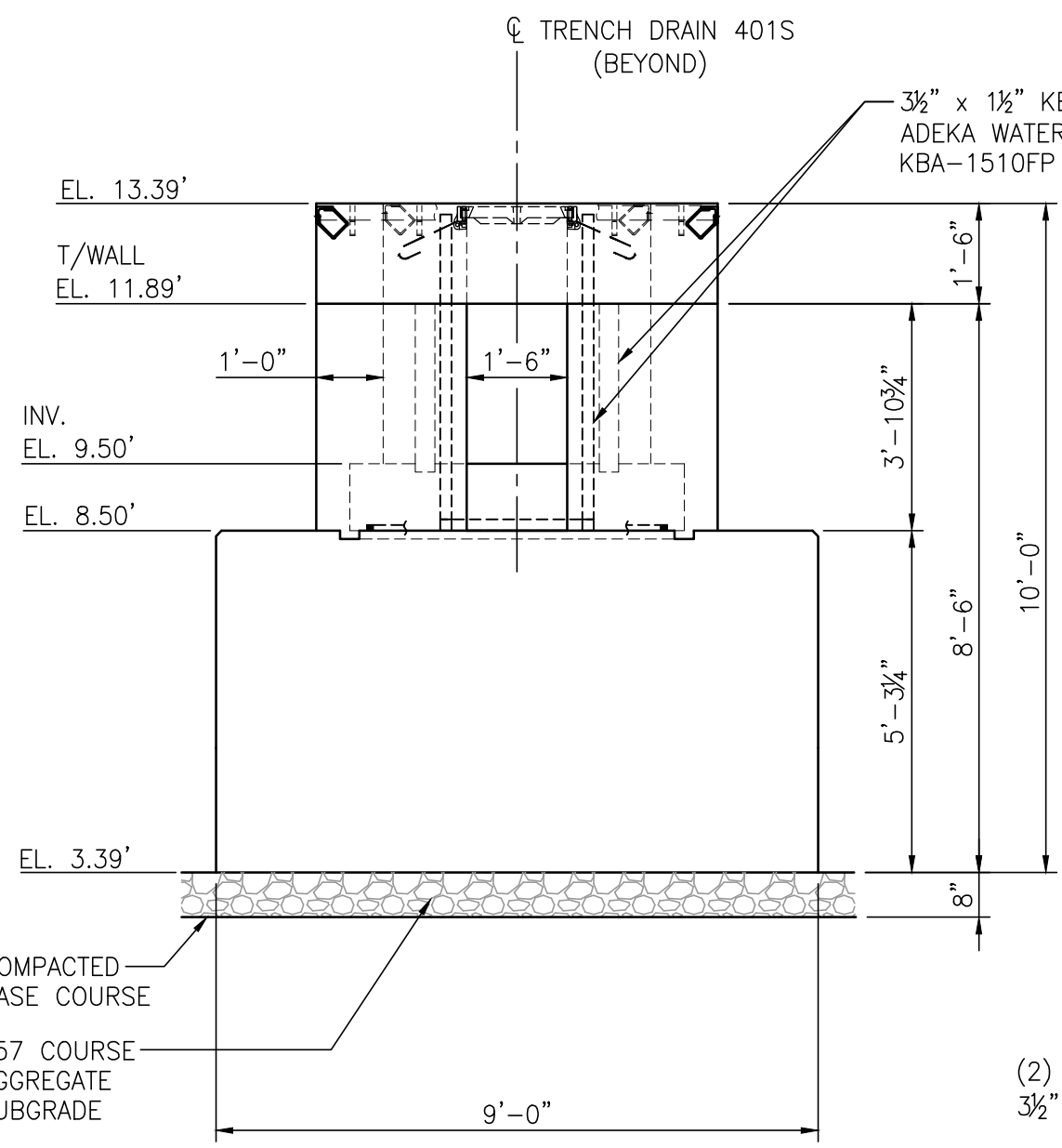
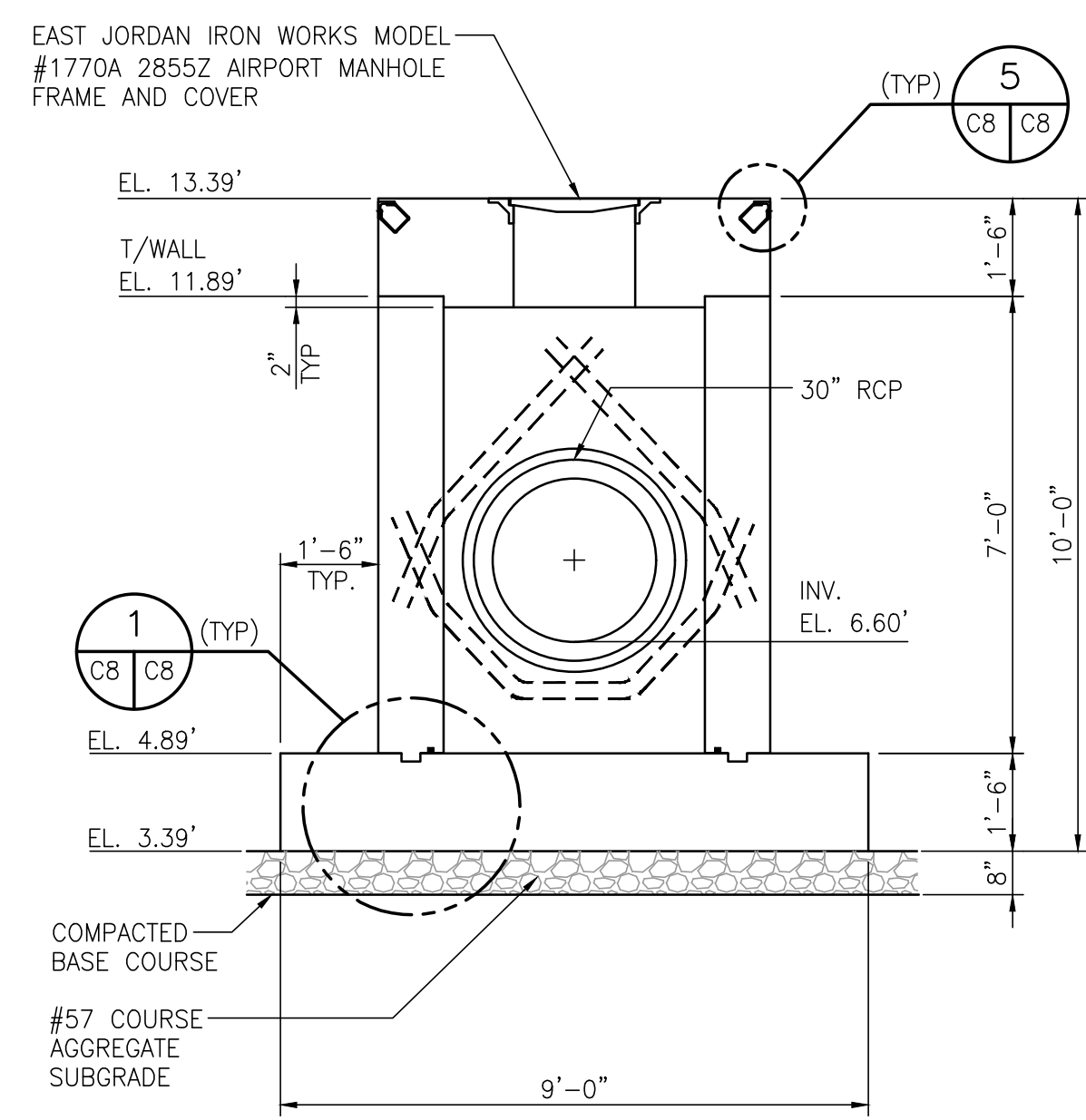
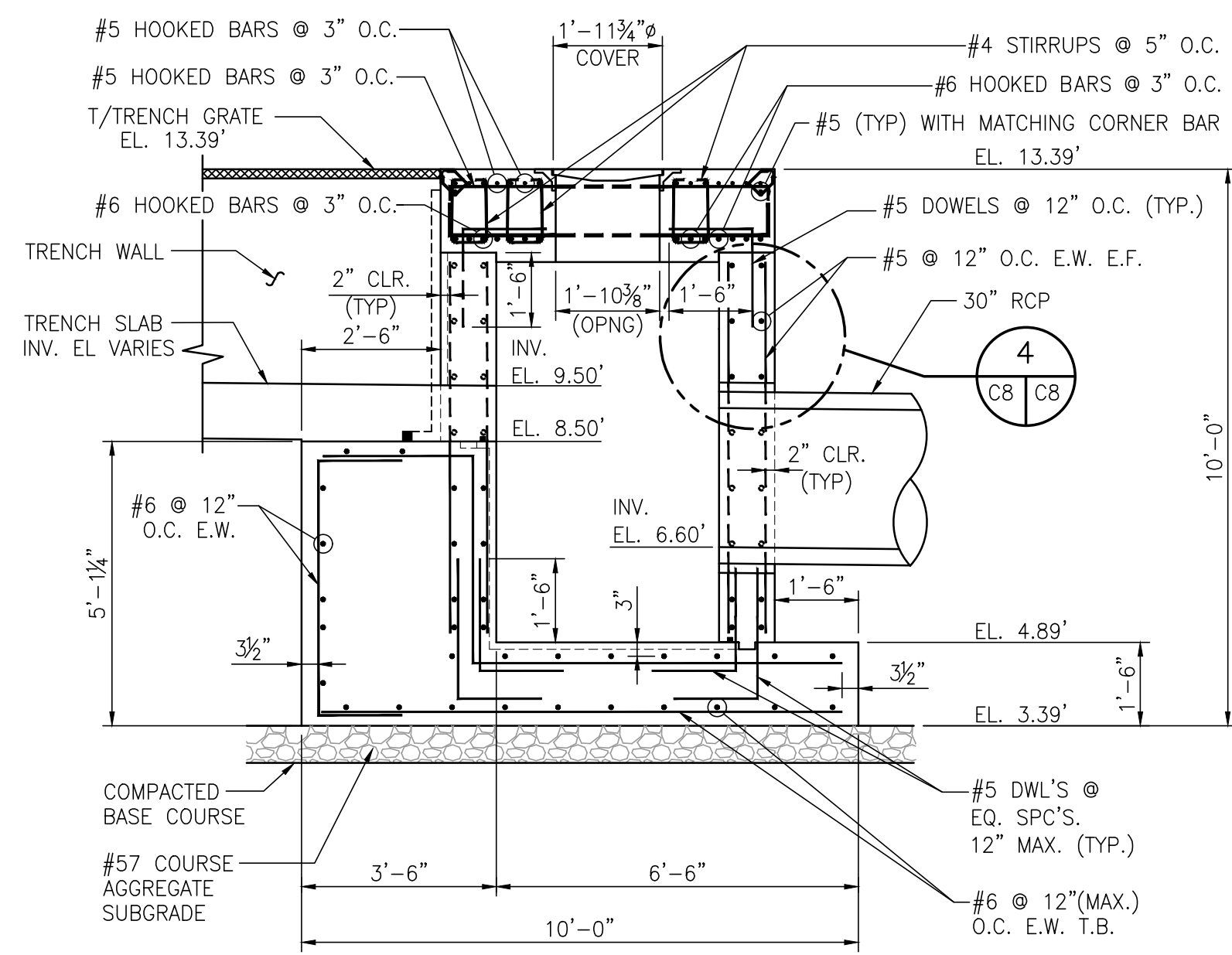
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-1" DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: C7 | REV: A



NOTES

- EMBEDDED ANGLES FOR TOP EDGE PROTECTION AT JUNCTION BOX & TRENCH DRAIN OMITTED IN THIS DETAIL

REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

REFERENCE DRAWINGS

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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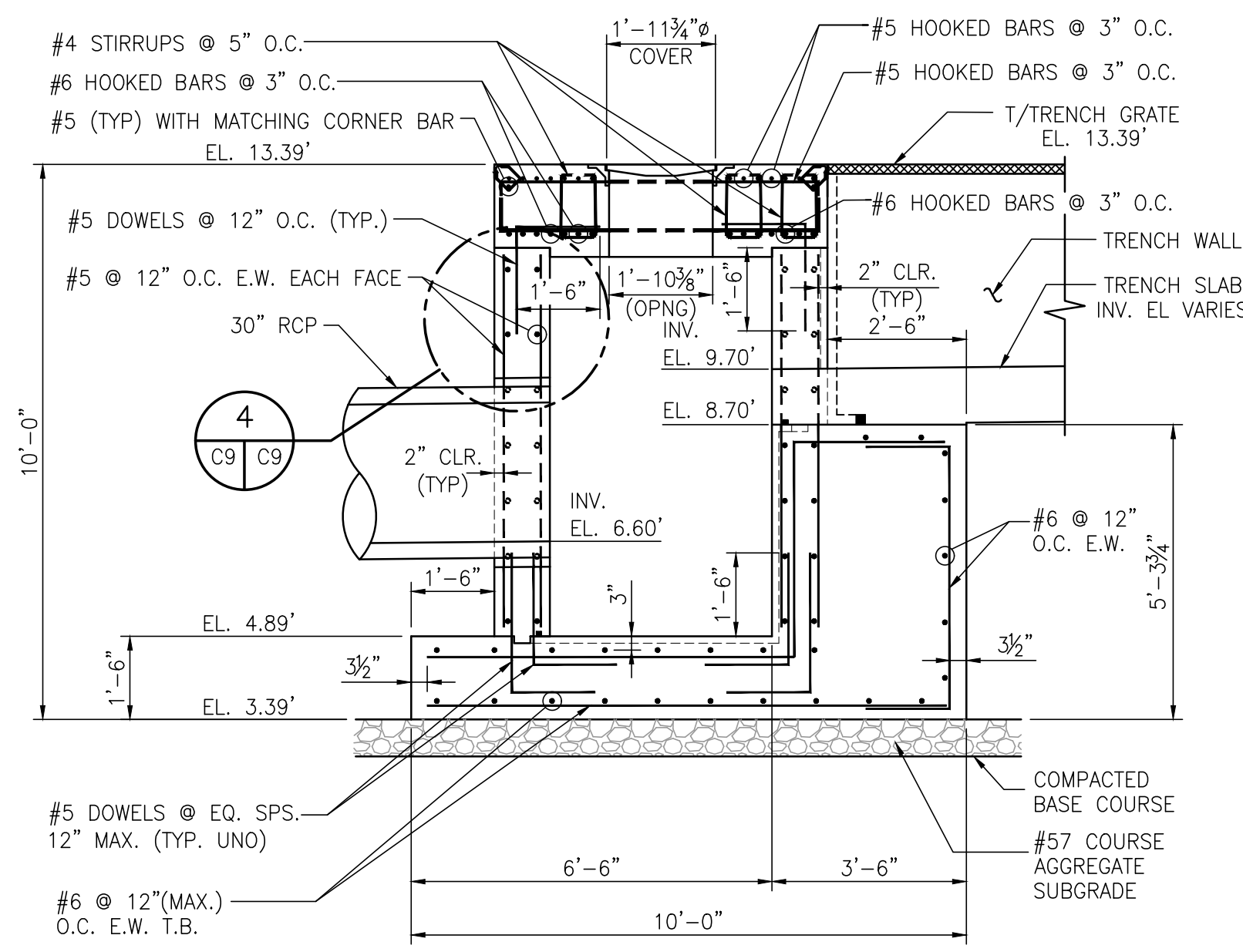
ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

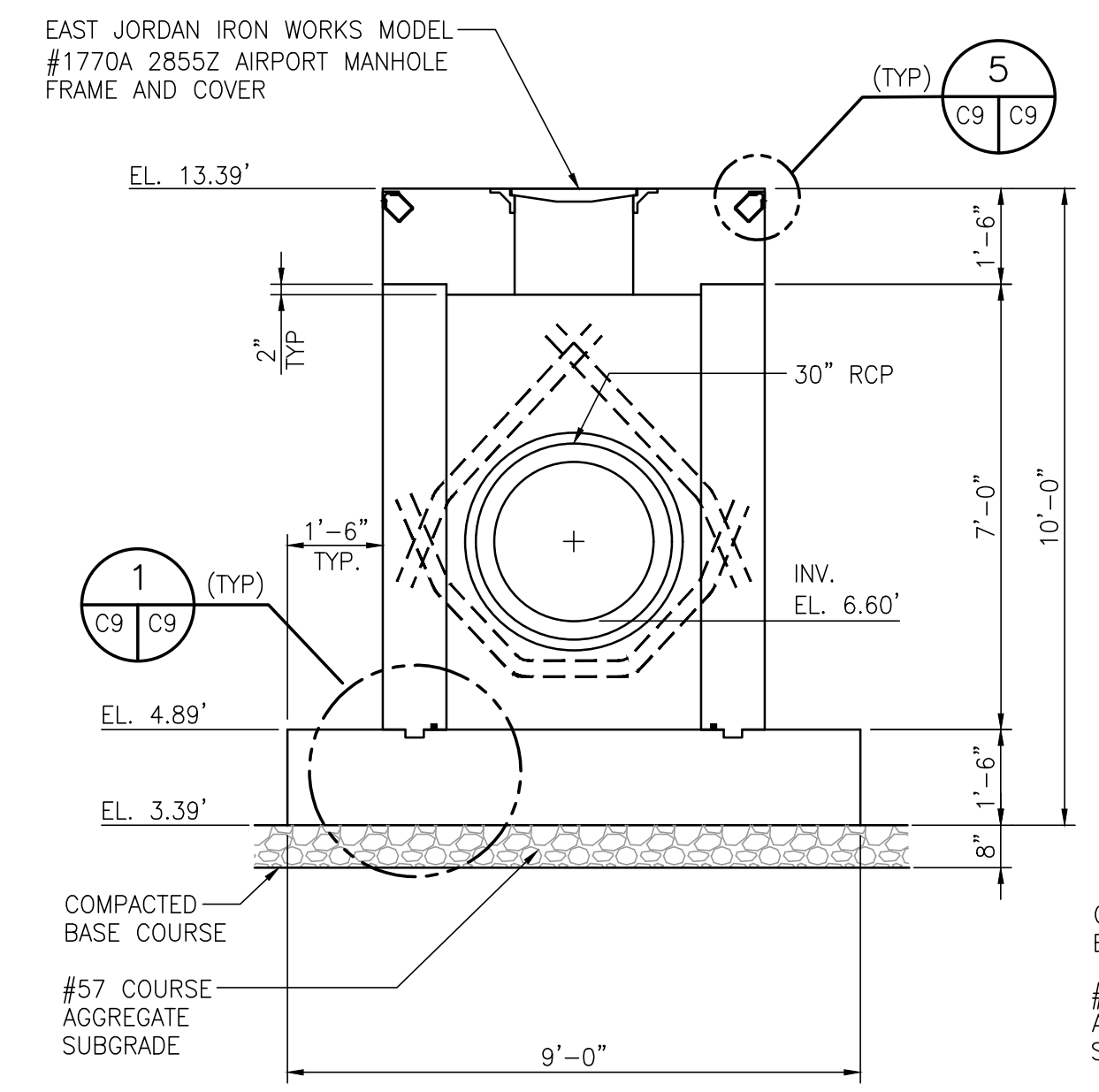
APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-2" DETAILS

FOR: ALABAMA PORT AUTHORITY

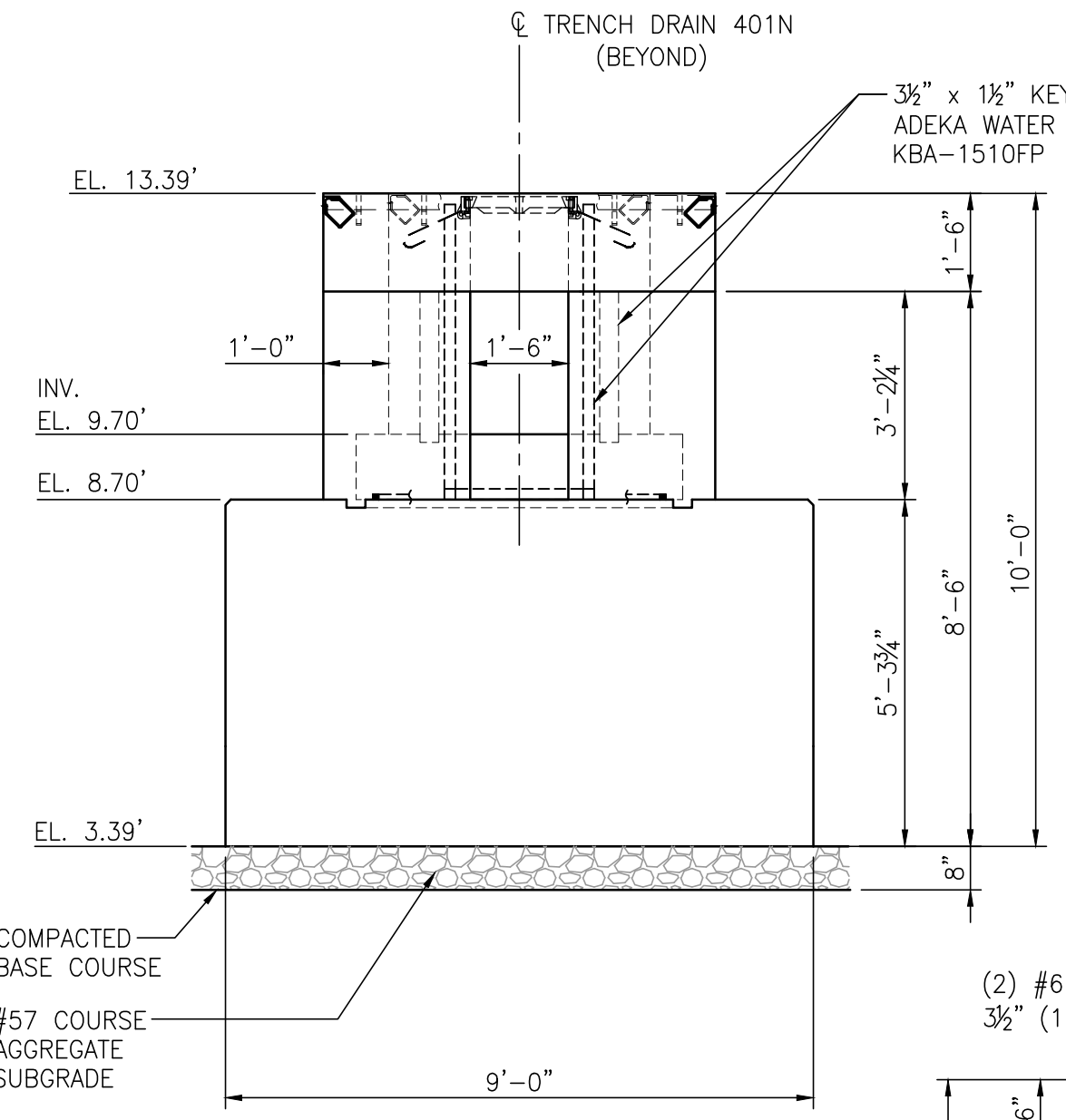
PROJECT NO: 4484  
DWG NO: C8  
REV: A



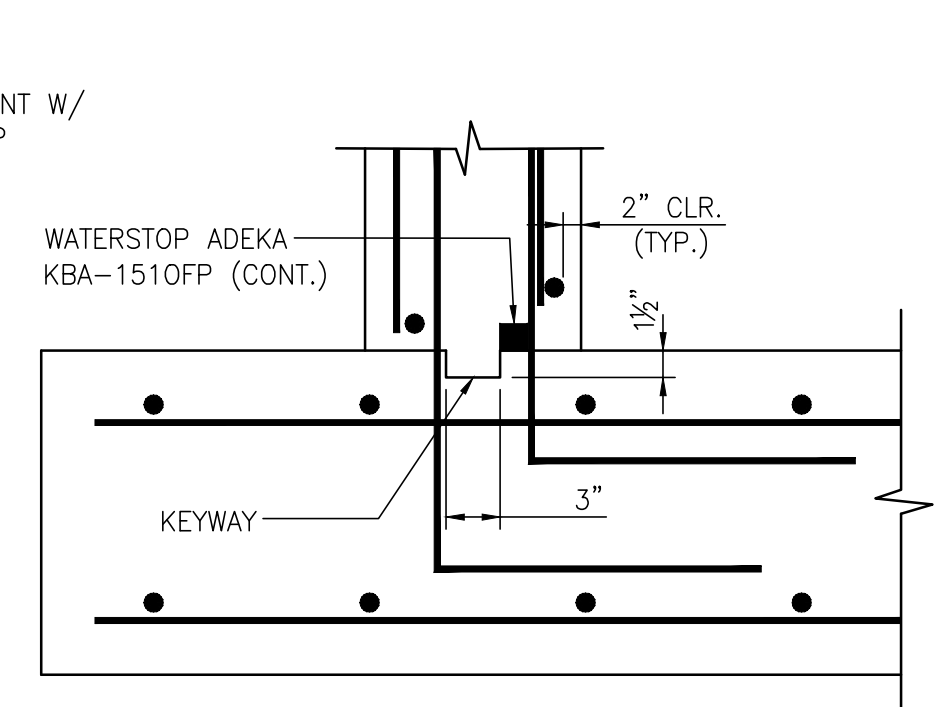
**SECTION A**  
3/8"=1'-0"



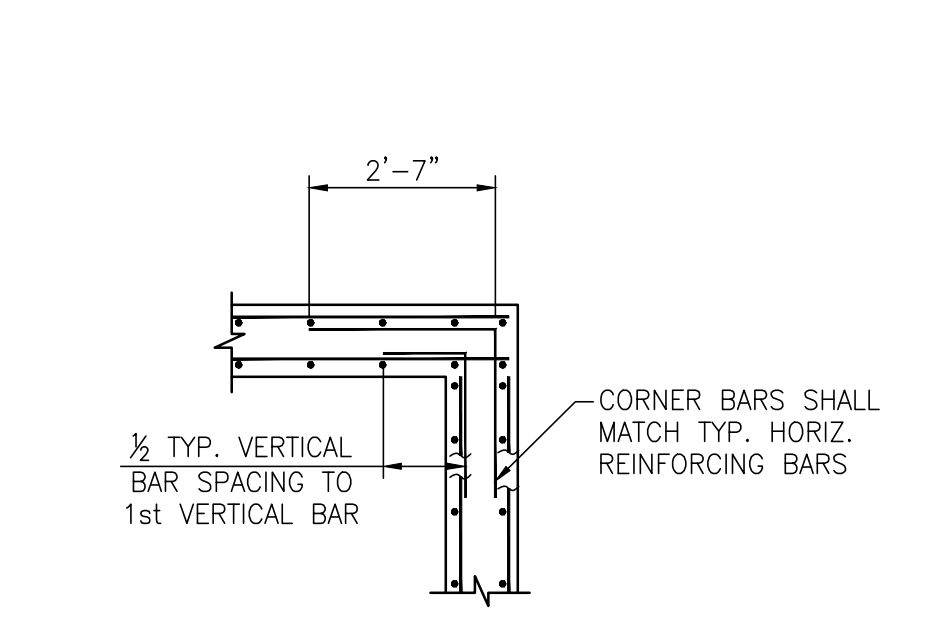
**SECTION B**  
3/8"=1'-0"



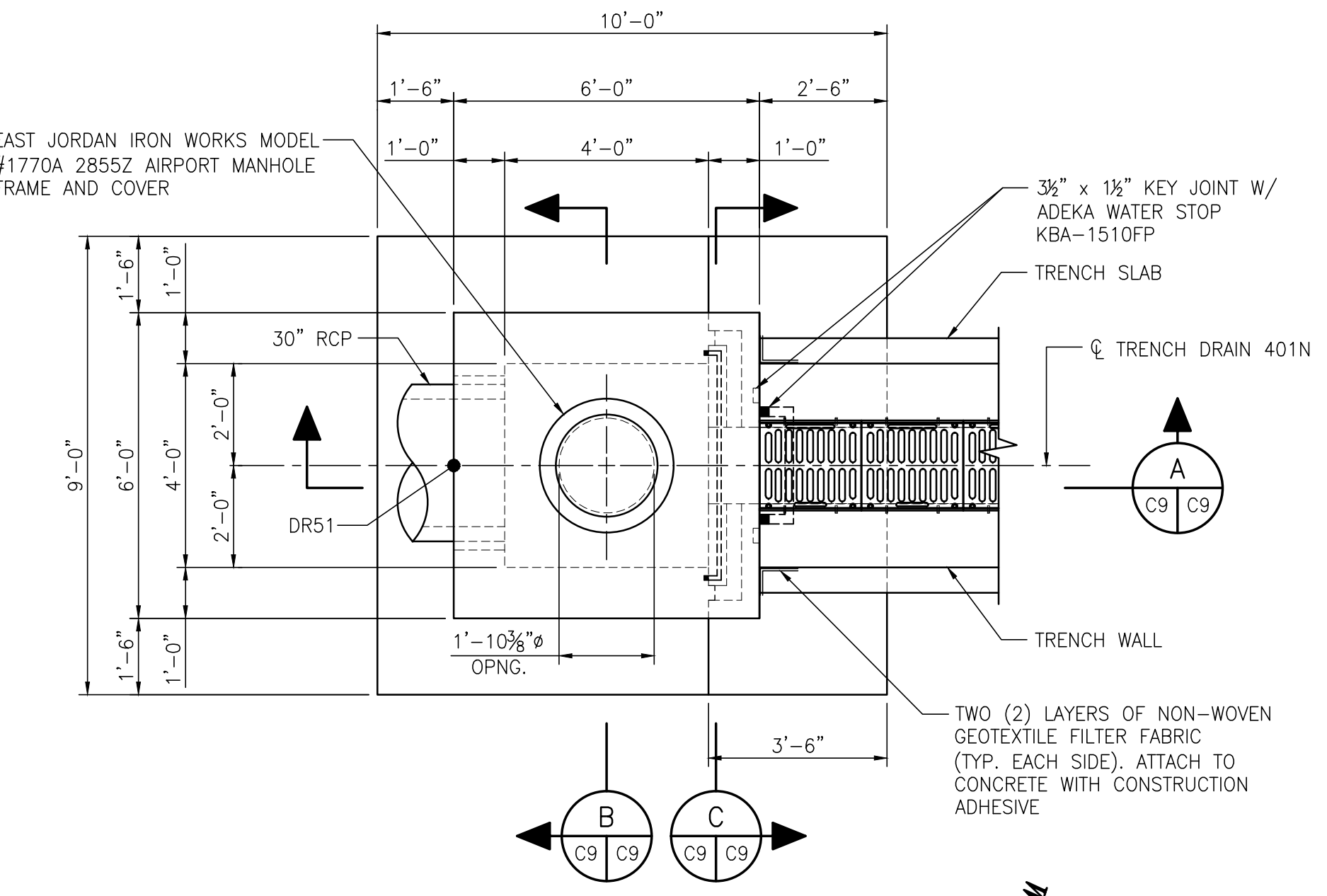
**SECTION C**  
3/8"=1'-0"



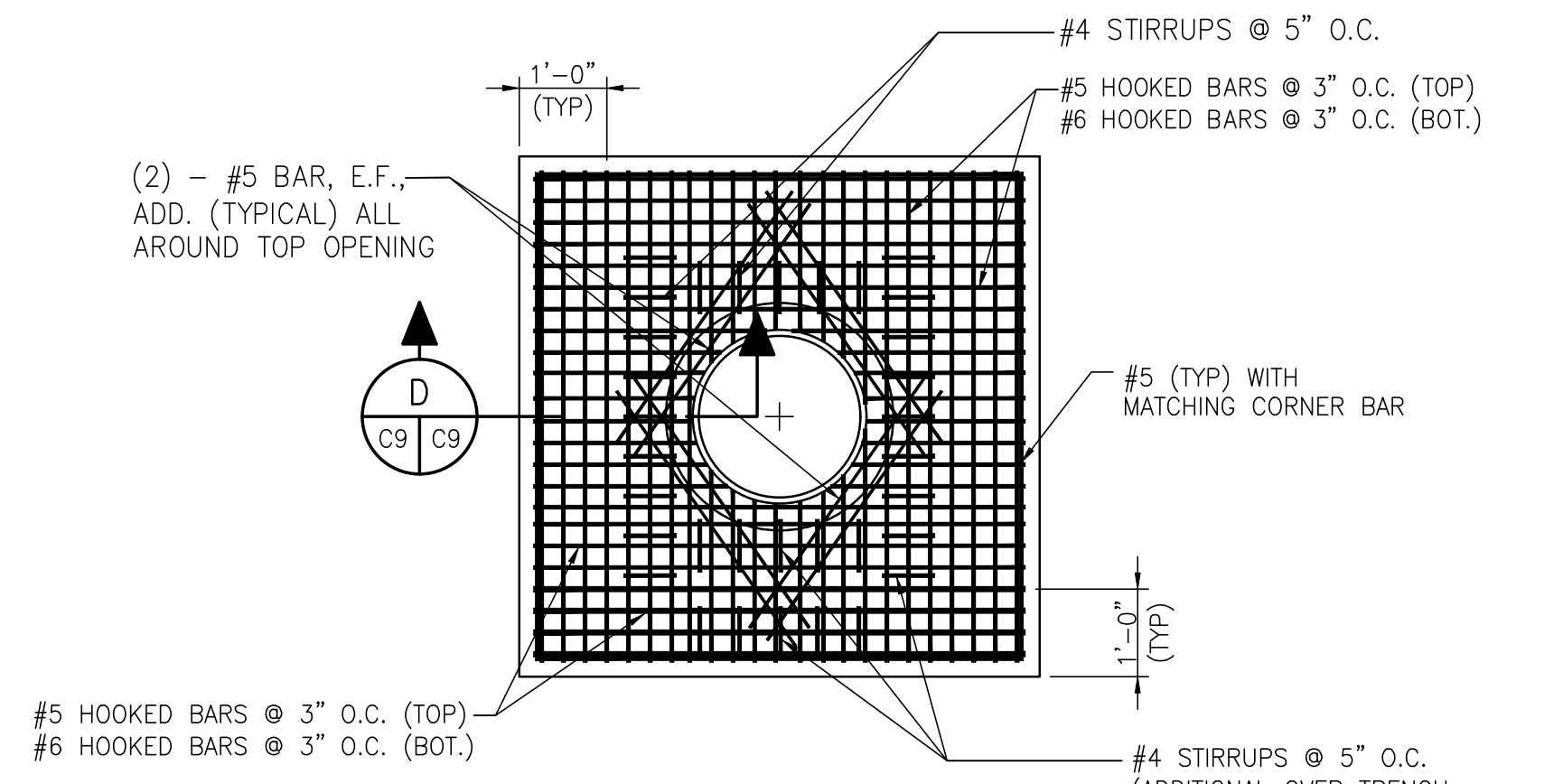
**KEYWAY & WATERSTOP DETAIL**  
NTS



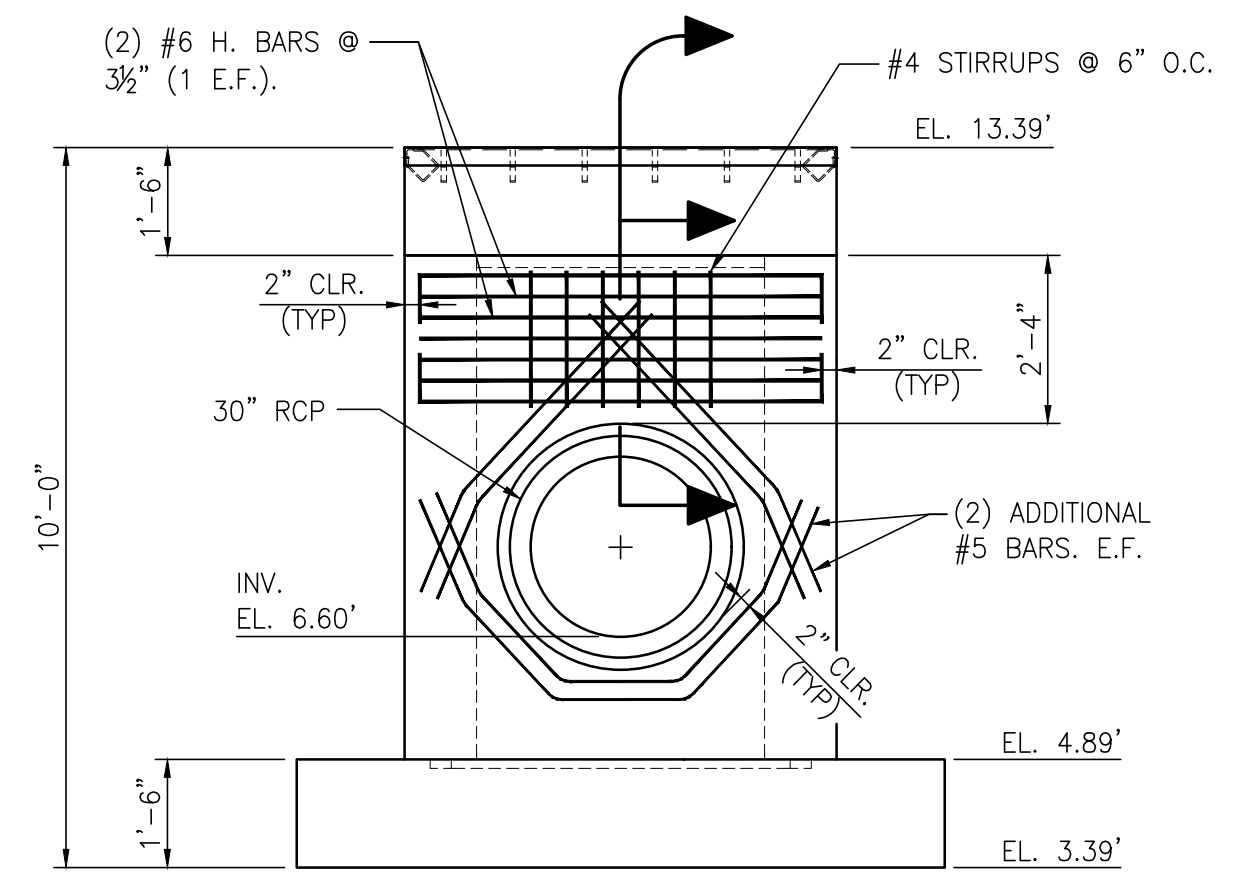
**WALL CORNER REINFORCING**  
3/8"=1'-0"



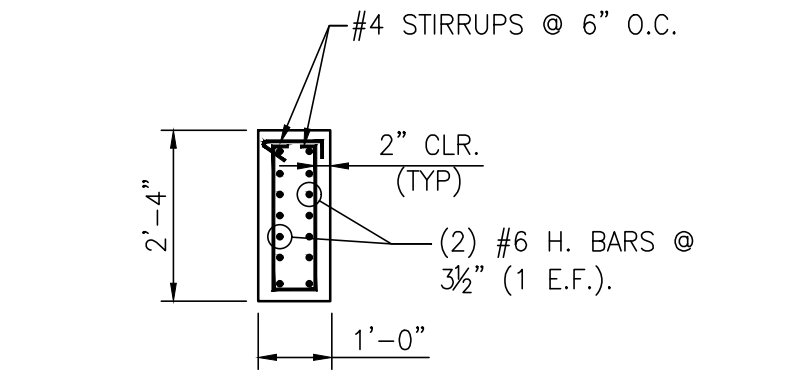
**JUNCTION BOX JB-3**  
3/8"=1'-0"



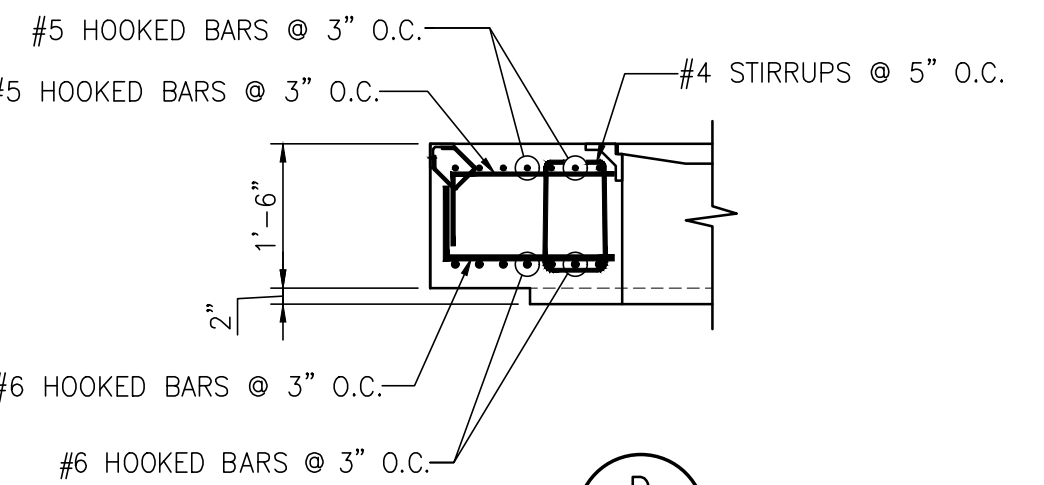
**TOP REBAR PLAN**  
1/2"=1'-0"



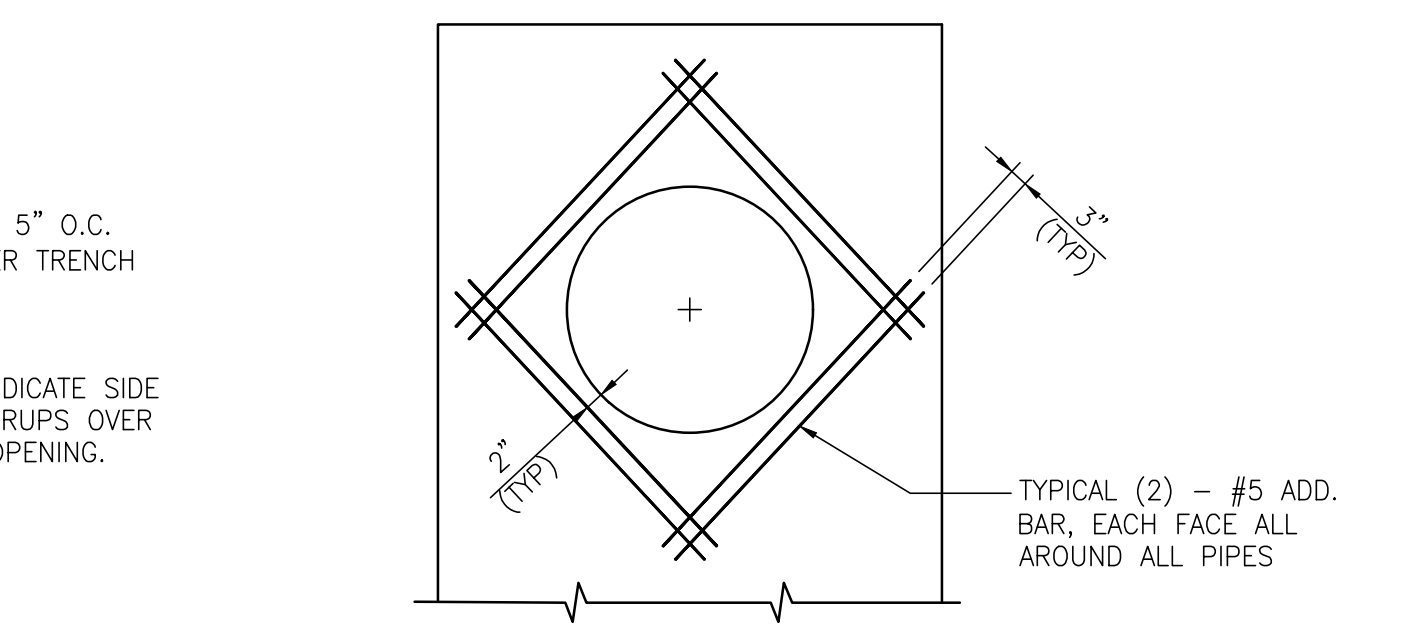
**ADDITIONAL SPANDREL REBAR DETAIL**  
3/8"=1'-0"



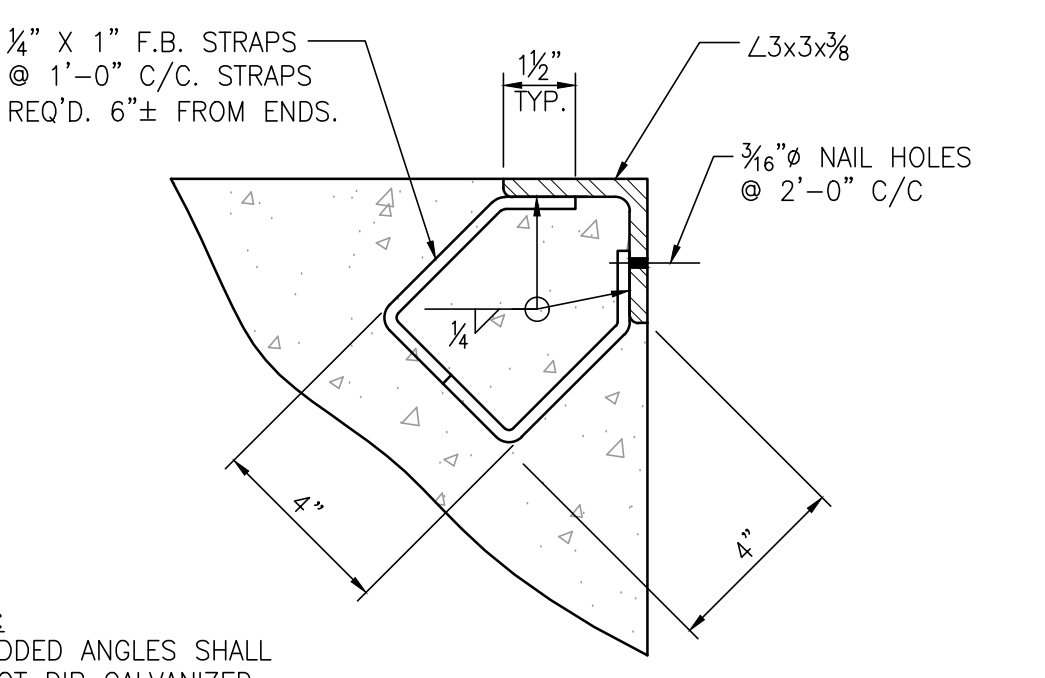
**ADDITIONAL SPANDREL REBAR SECTION**  
3/8"=1'-0"



**SECTION D**  
1/2"=1'-0"



**ADDITIONAL REBAR AROUND WALL OPENINGS (TYP)**  
NTS



**EMBEDDED ANGLE DETAIL**  
3"=1'-0"

**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE  
ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-3" DETAILS

FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4484 DWG NO: C9 REV: A

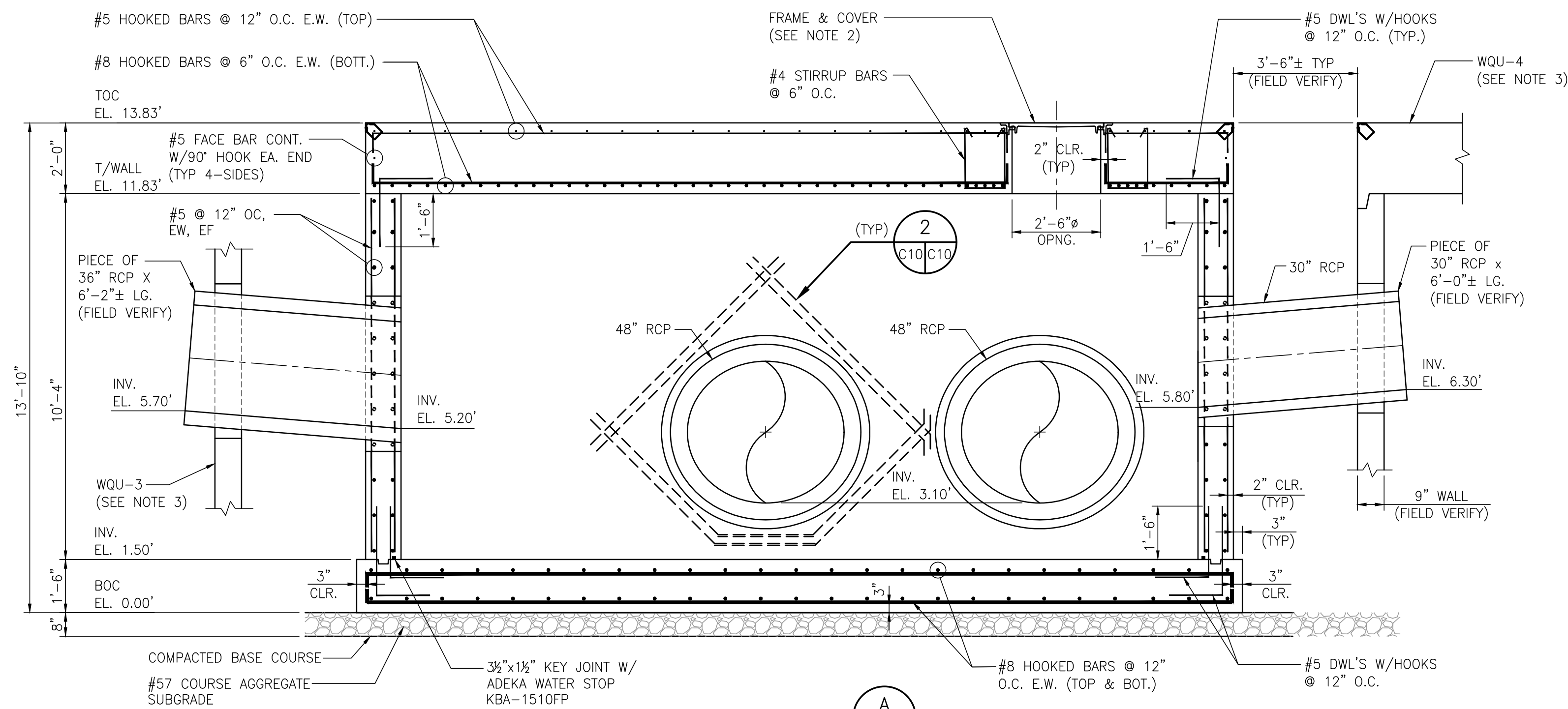
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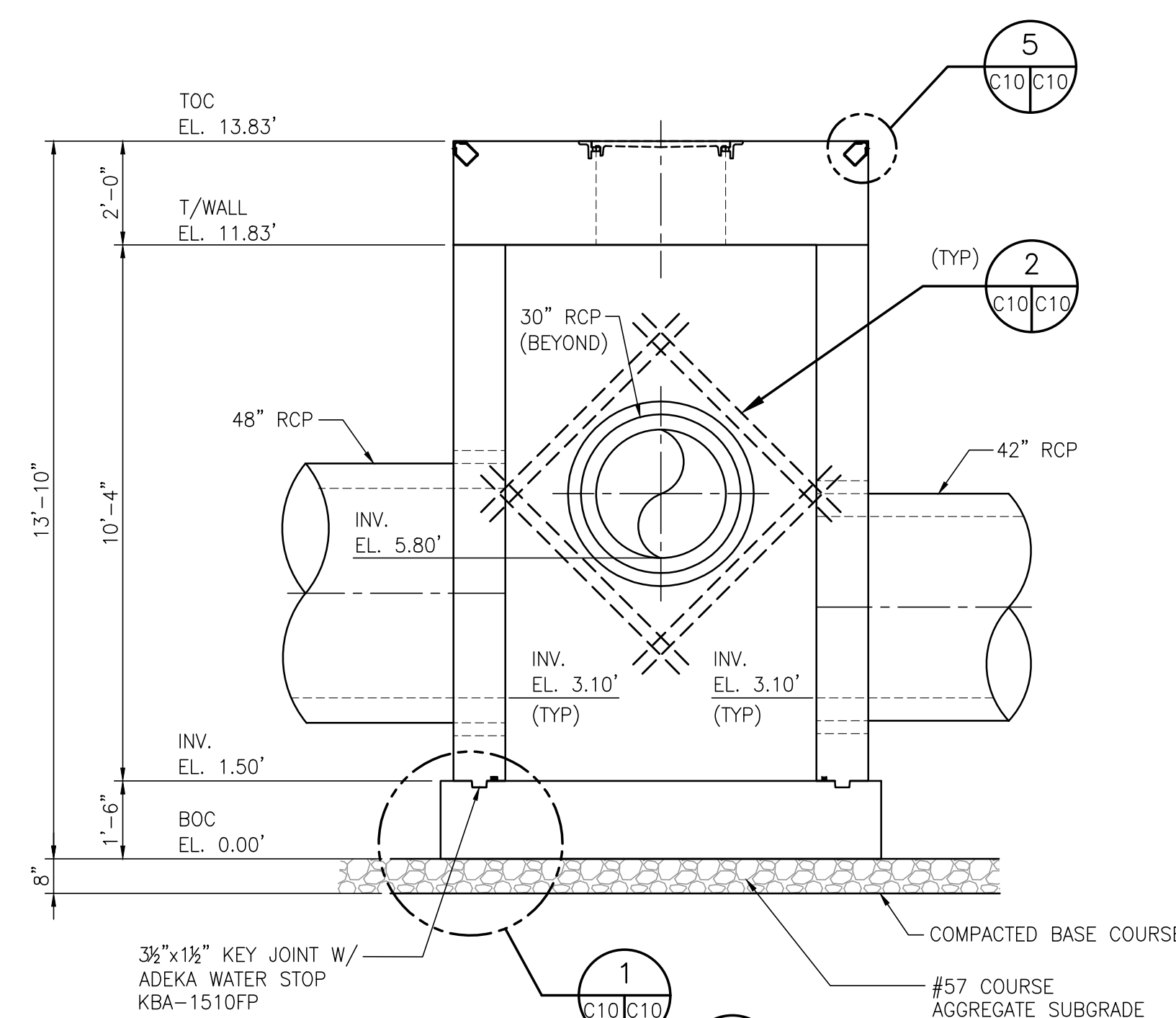
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

DRAWN: RST CK'D: MED APPD: RSG DATE: 08/29/22 SCALE: NONE

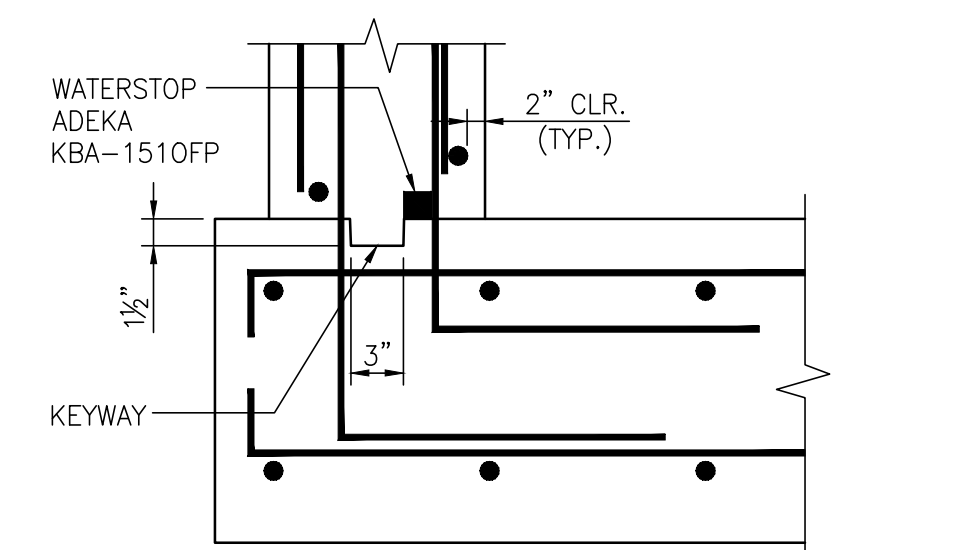




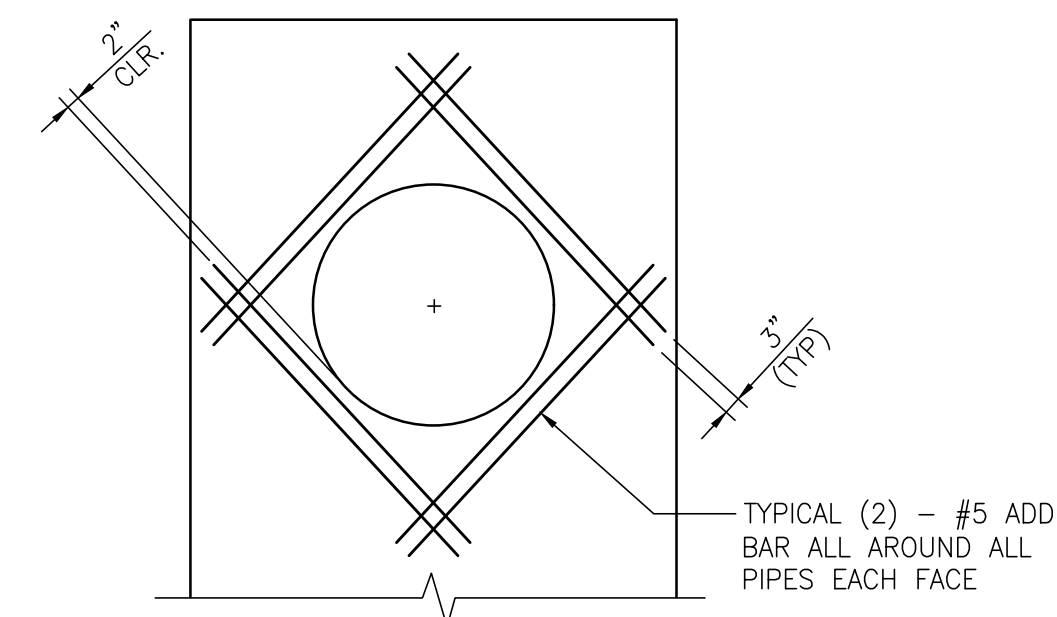
**SECTION A-A**  
3/8"=1'-0"



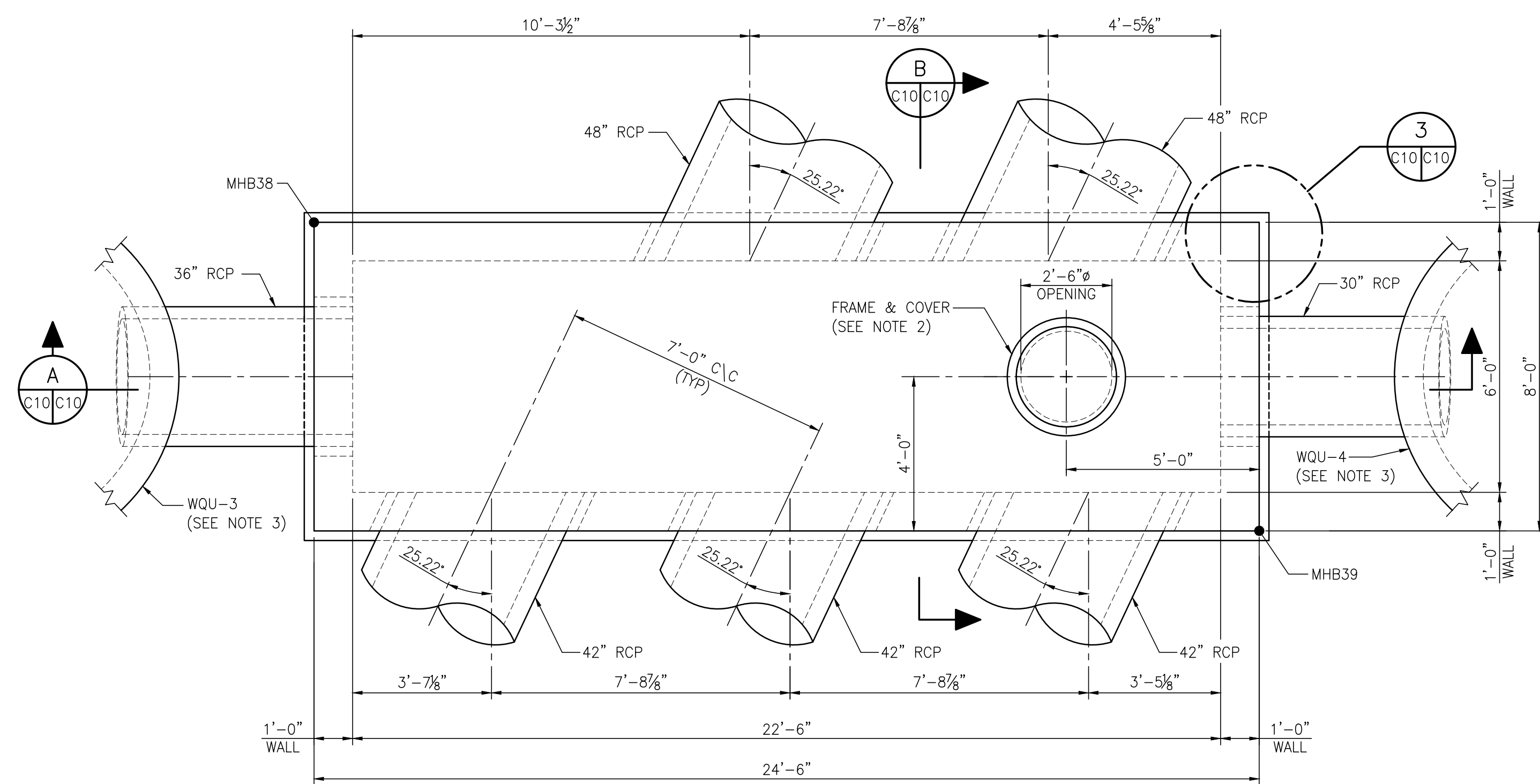
**SECTION B-B**  
3/8"=1'-0"



**KEYWAY & WATERSTOP DETAIL**  
N.T.S.

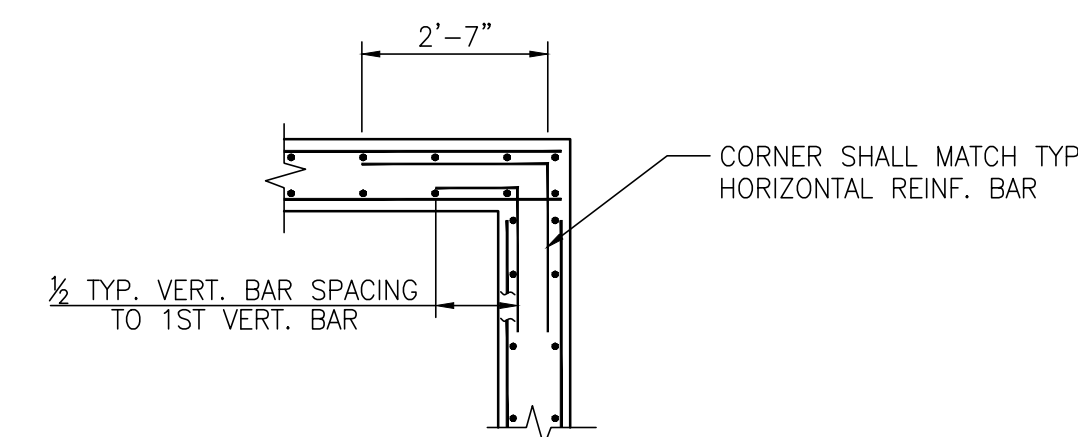


**ADD. REBAR AROUND WALL OPENINGS (TYP)**  
N.T.S.

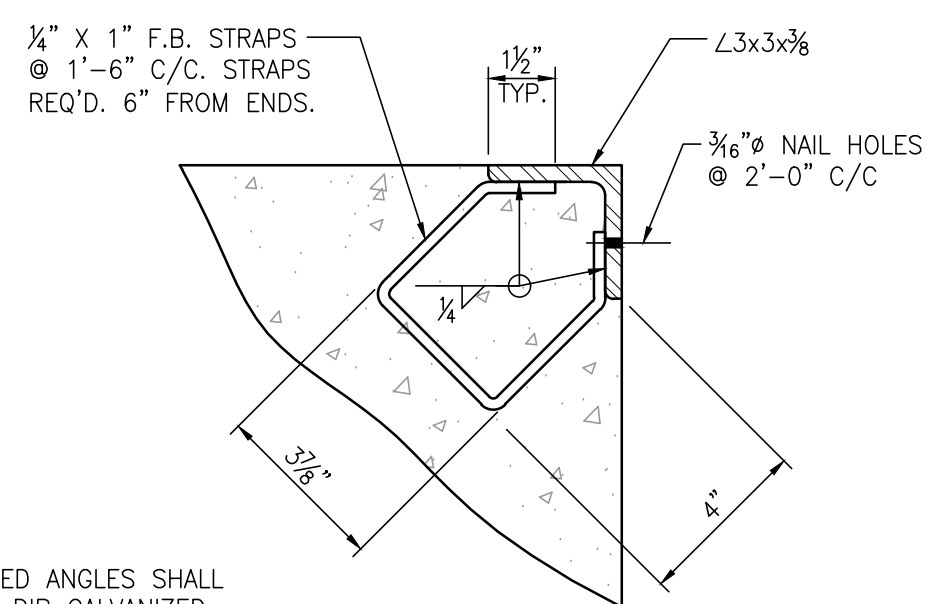


NOTE:  
EMBEDDED ANGLES FOR  
TOP EDGE PROTECTION  
OMITTED IN THIS DETAIL

**JUNCTION BOX "JB-4"**  
3/8"=1'-0"

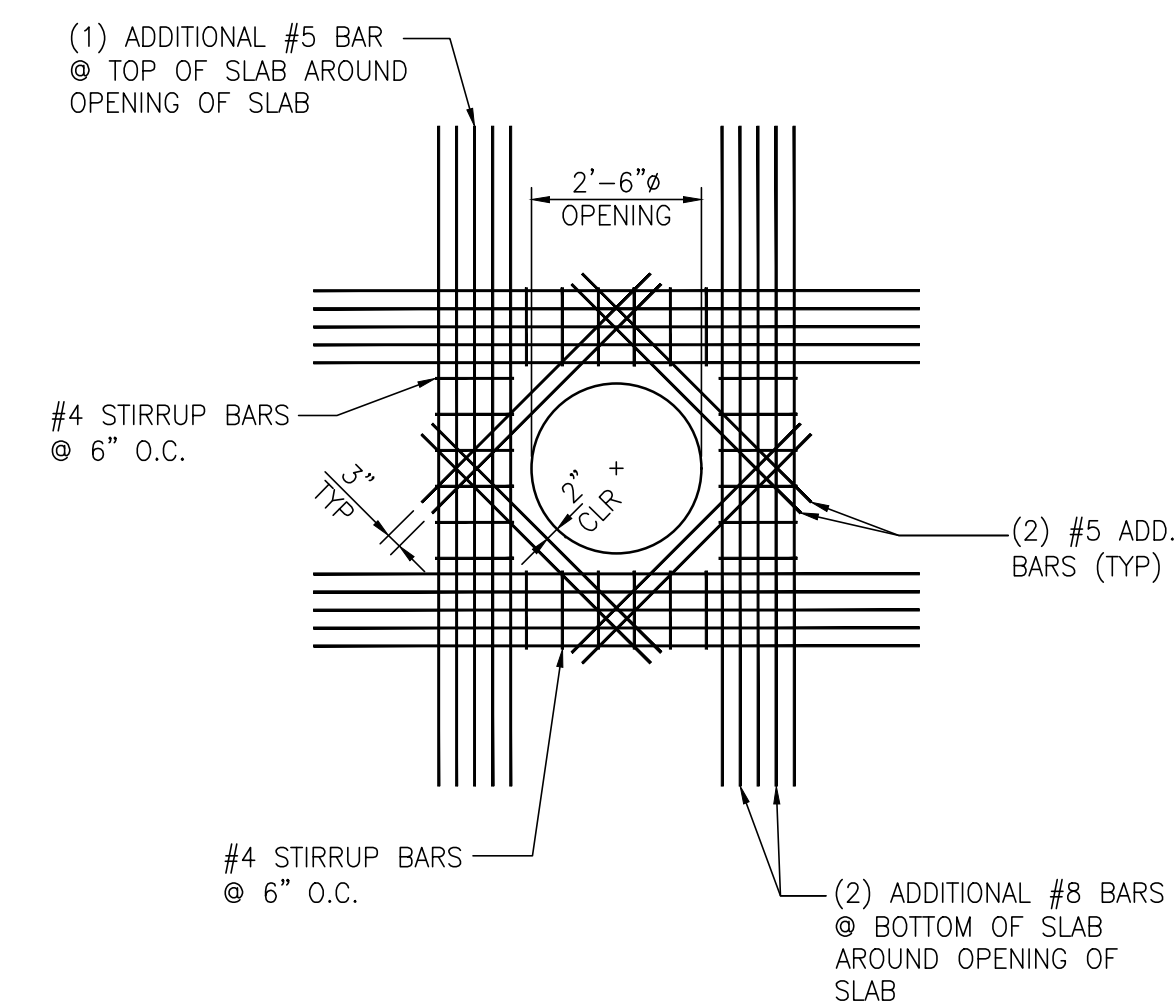


**WALL CORNER REINFORCING (TYP)**  
3/8"=1'-0"



NOTE:  
EMBEDDED ANGLES SHALL  
BE HOT DIP GALVANIZED  
AFTER FABRICATION.

**EMBEDDED ANGLE DETAIL**  
3/8"=1'-0"



**ADD. REBAR AROUND TOP OPENING**  
3/8"=1'-0"



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-4" DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

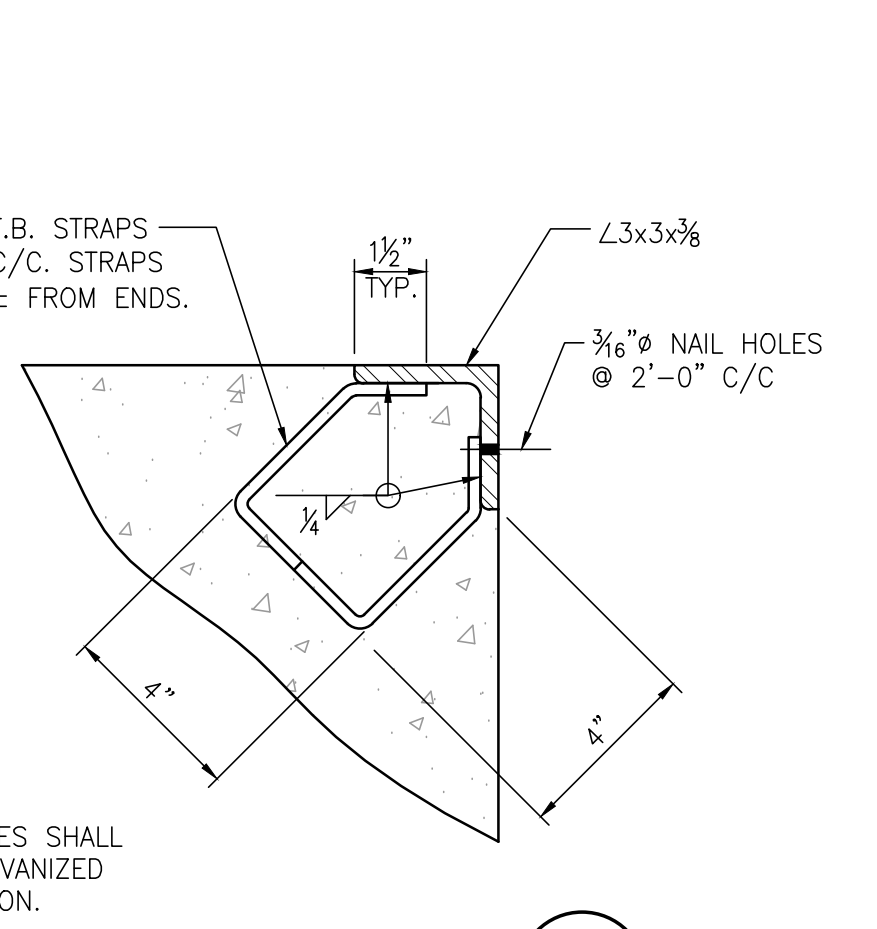
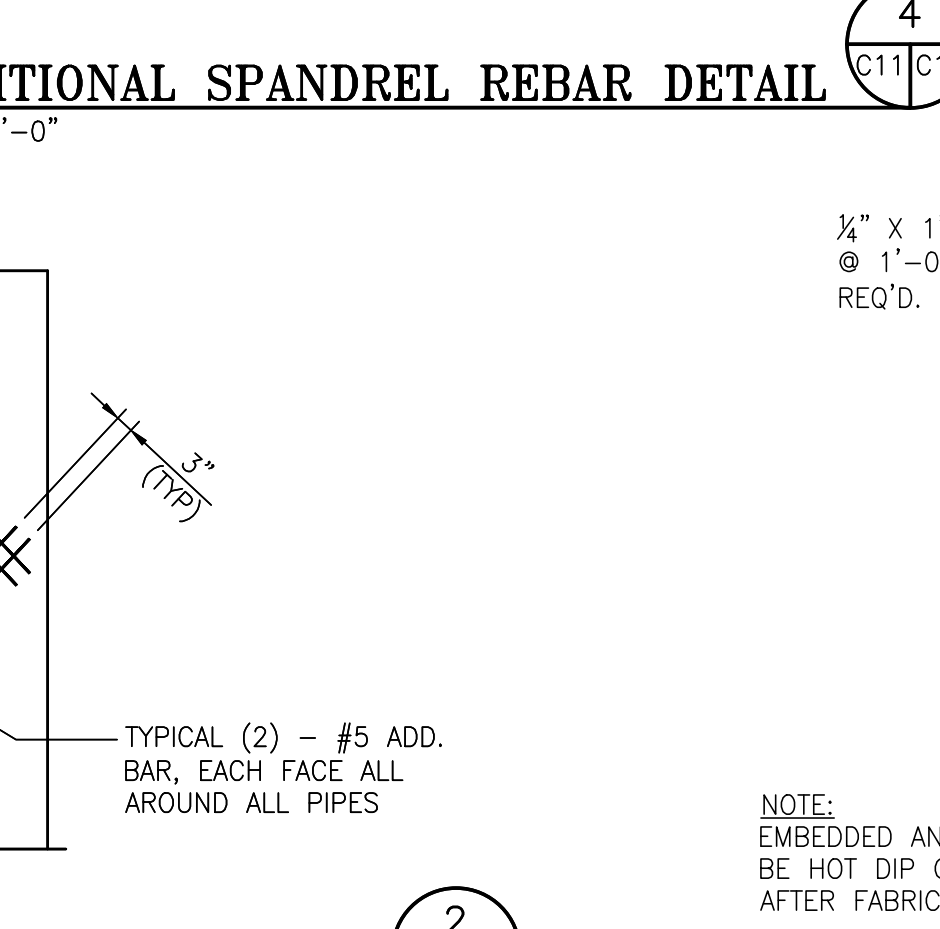
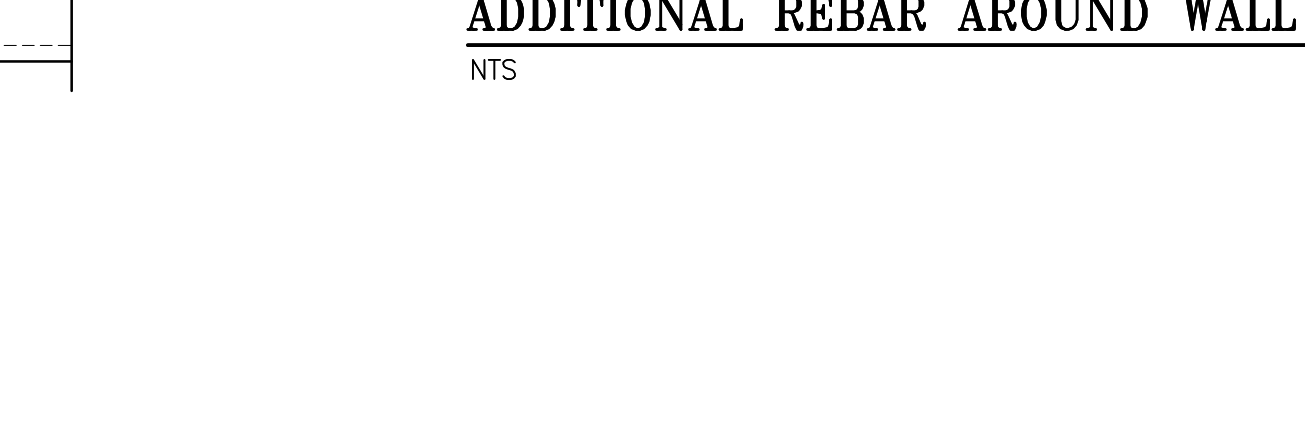
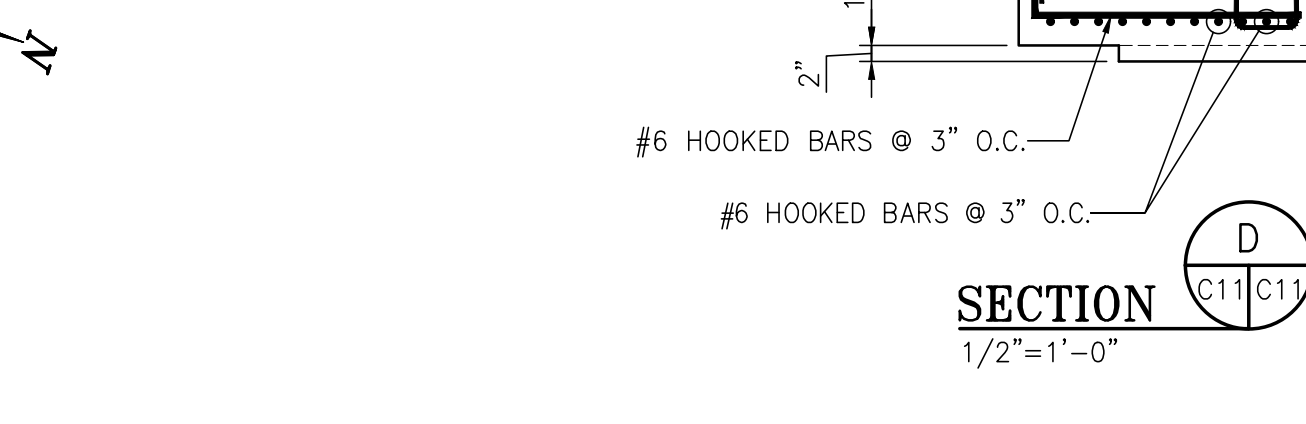
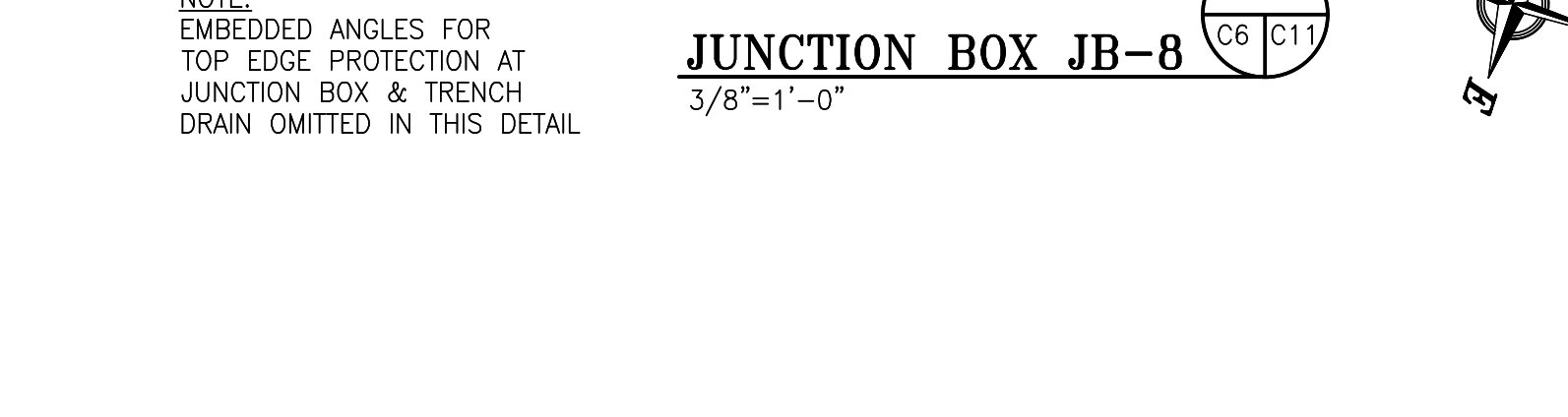
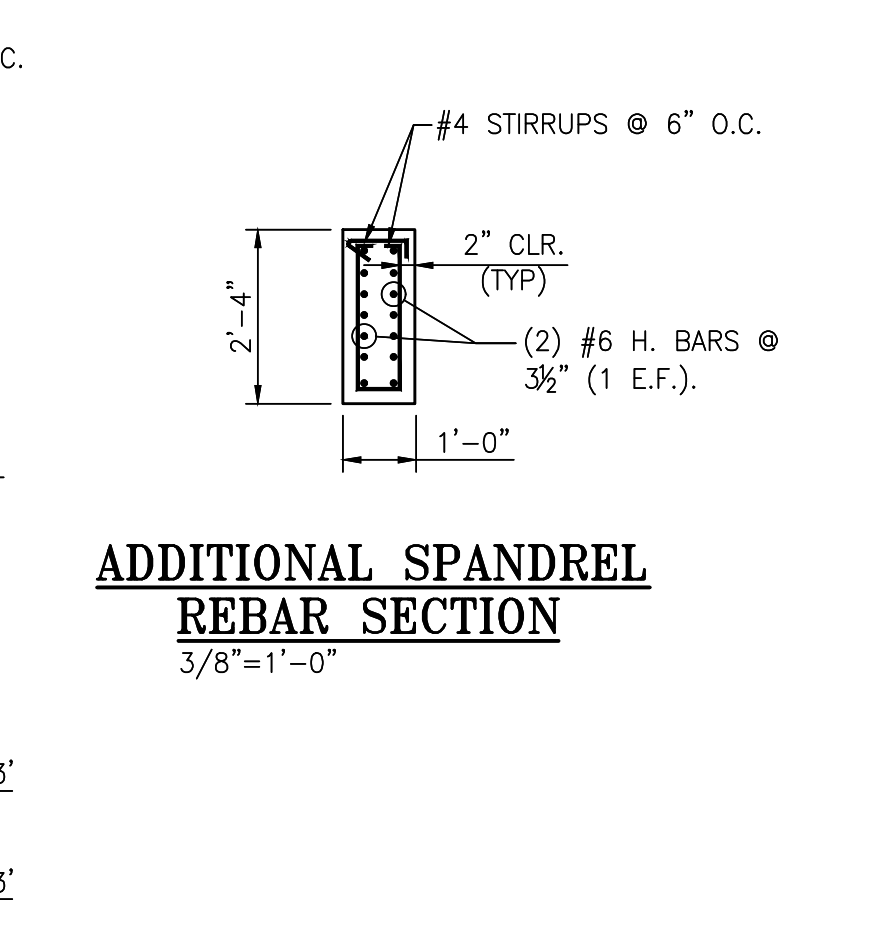
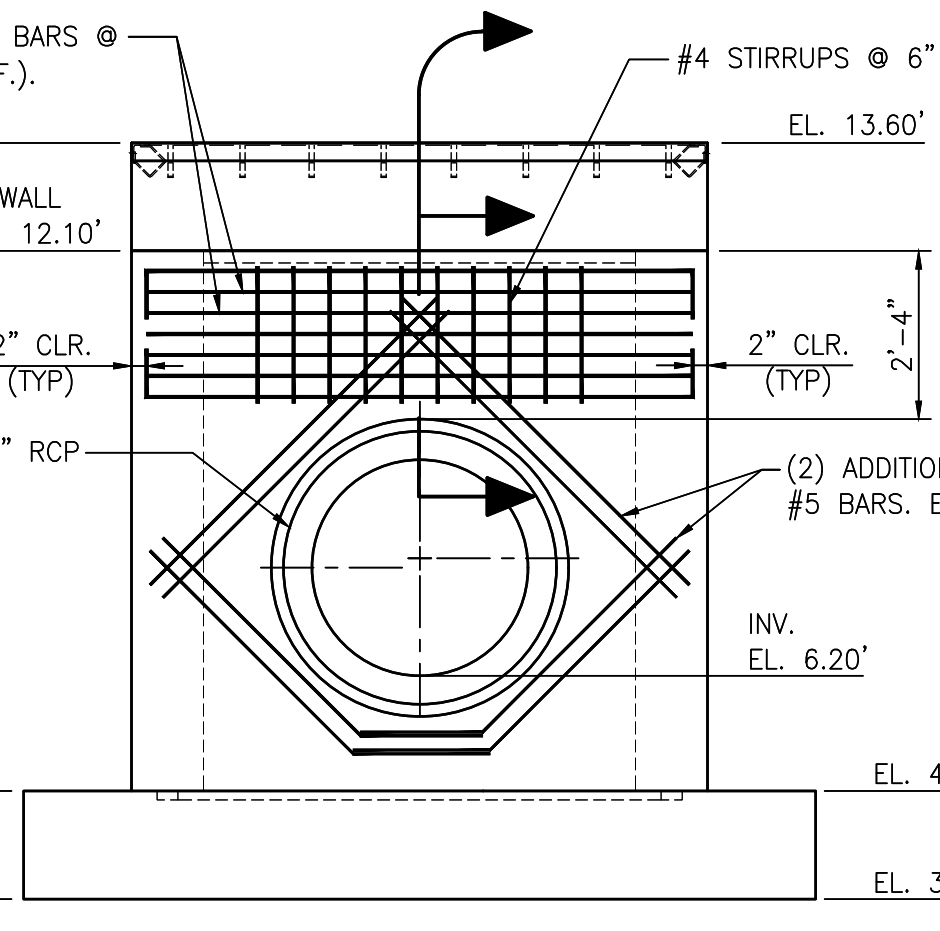
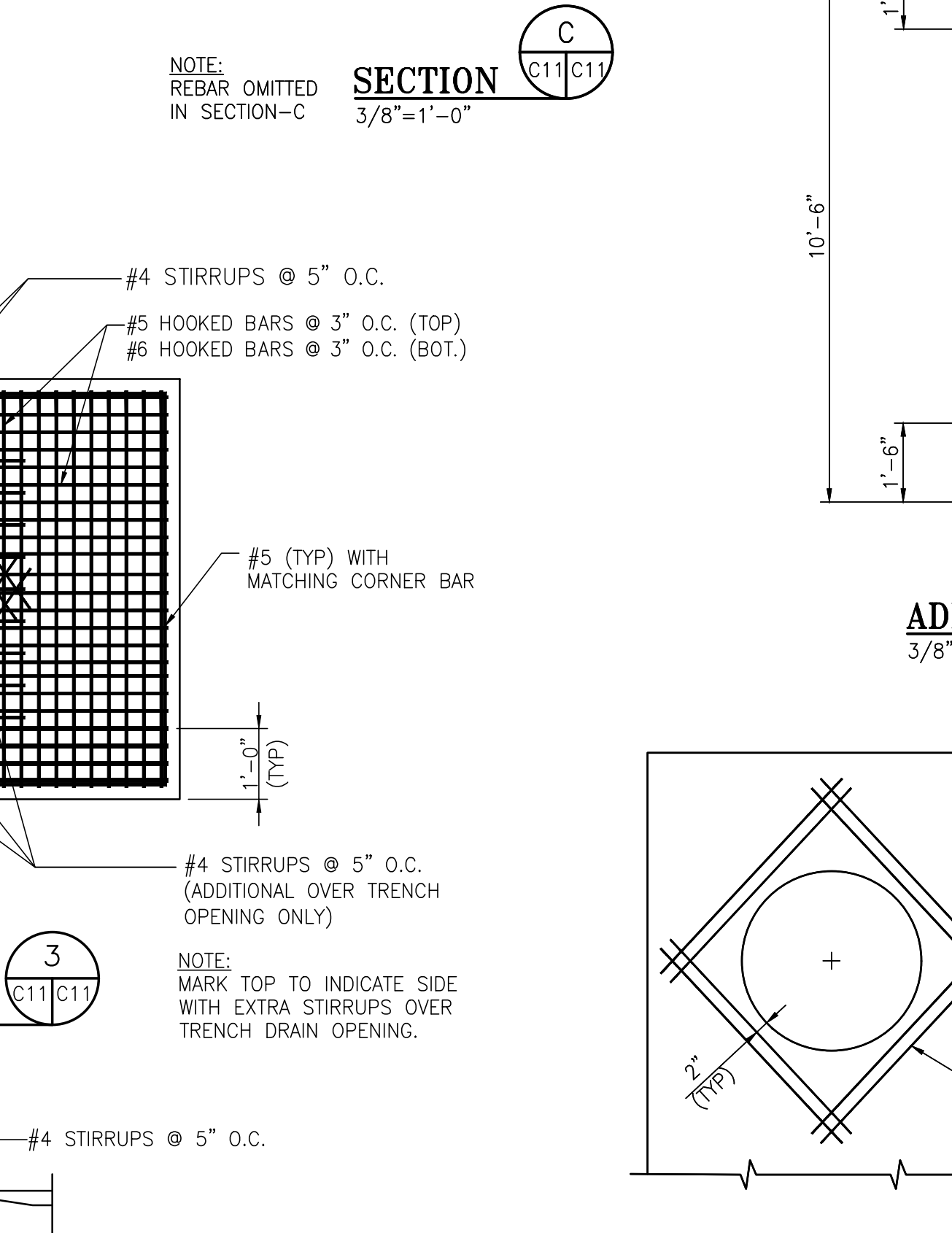
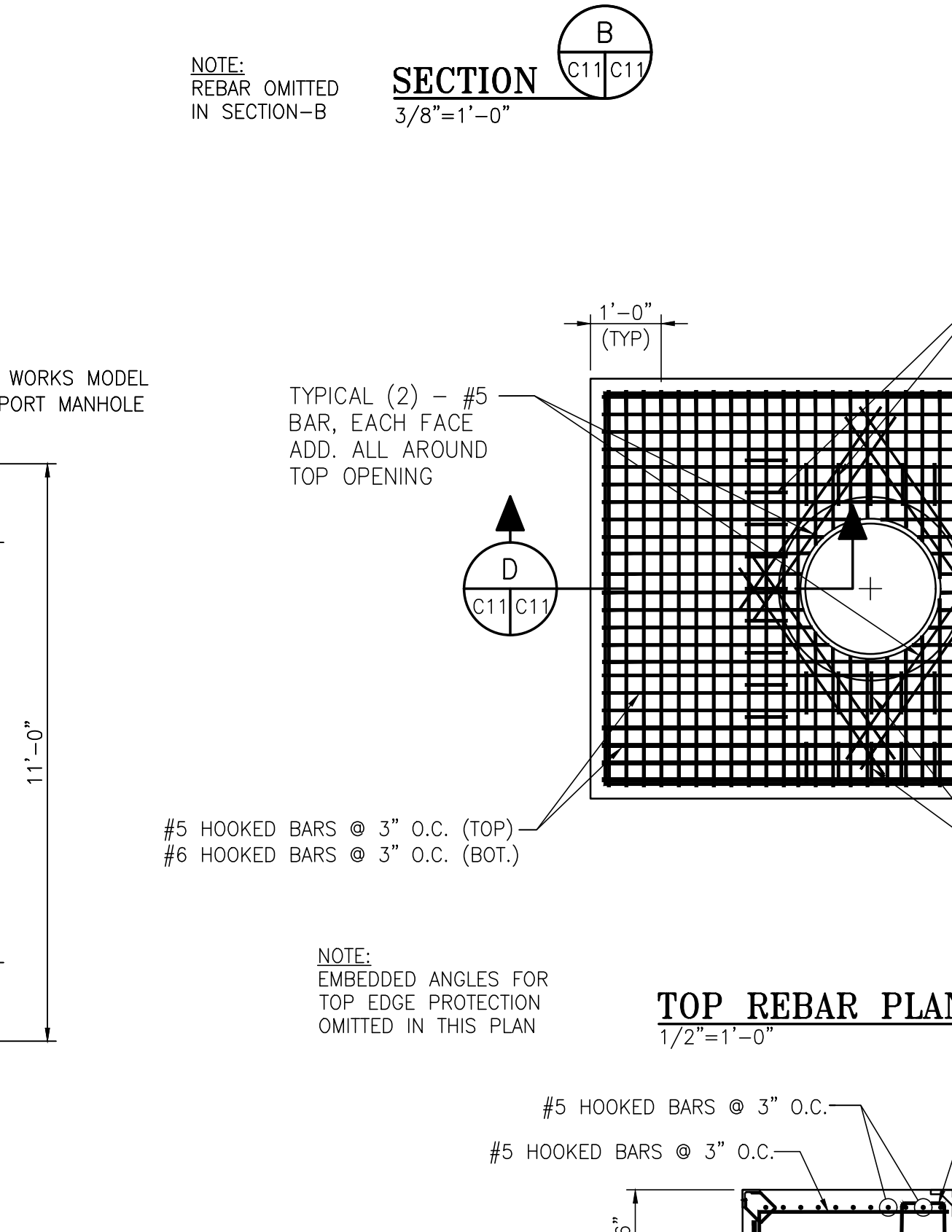
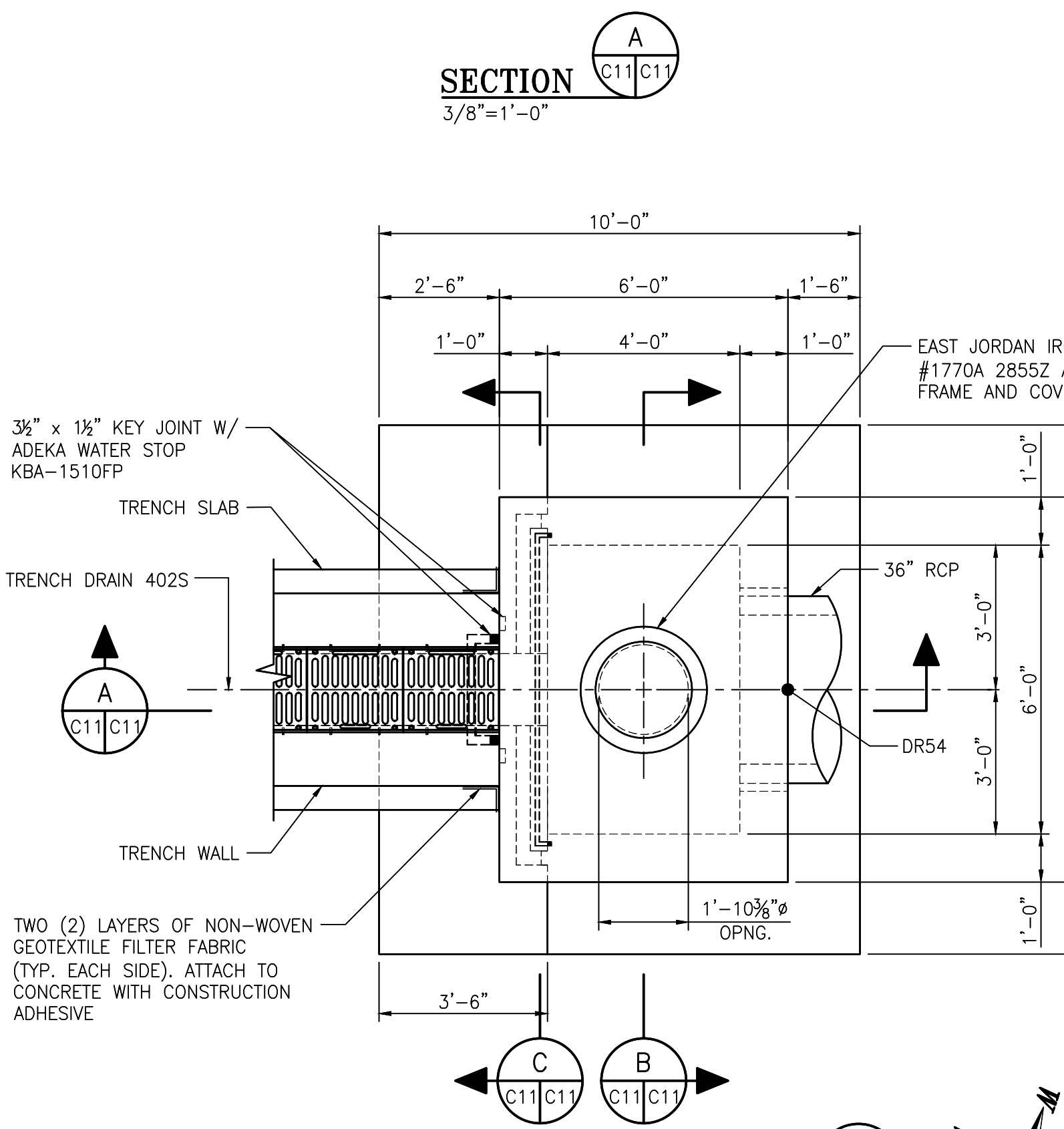
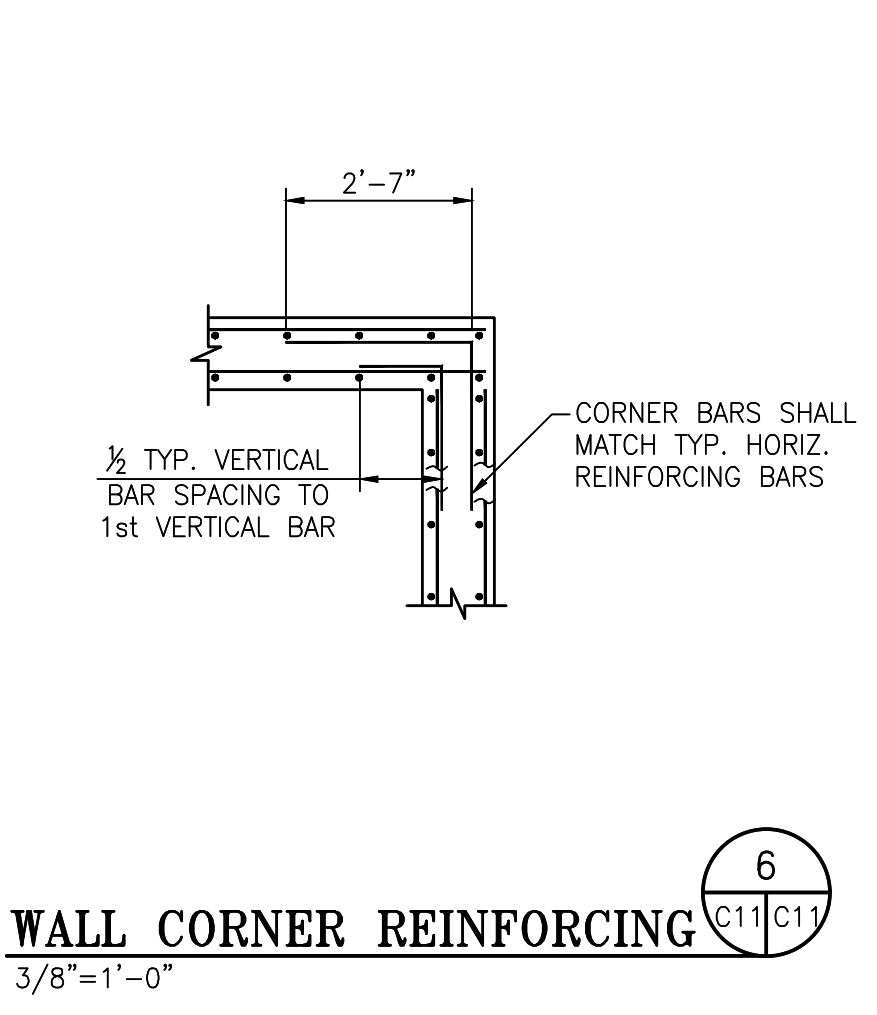
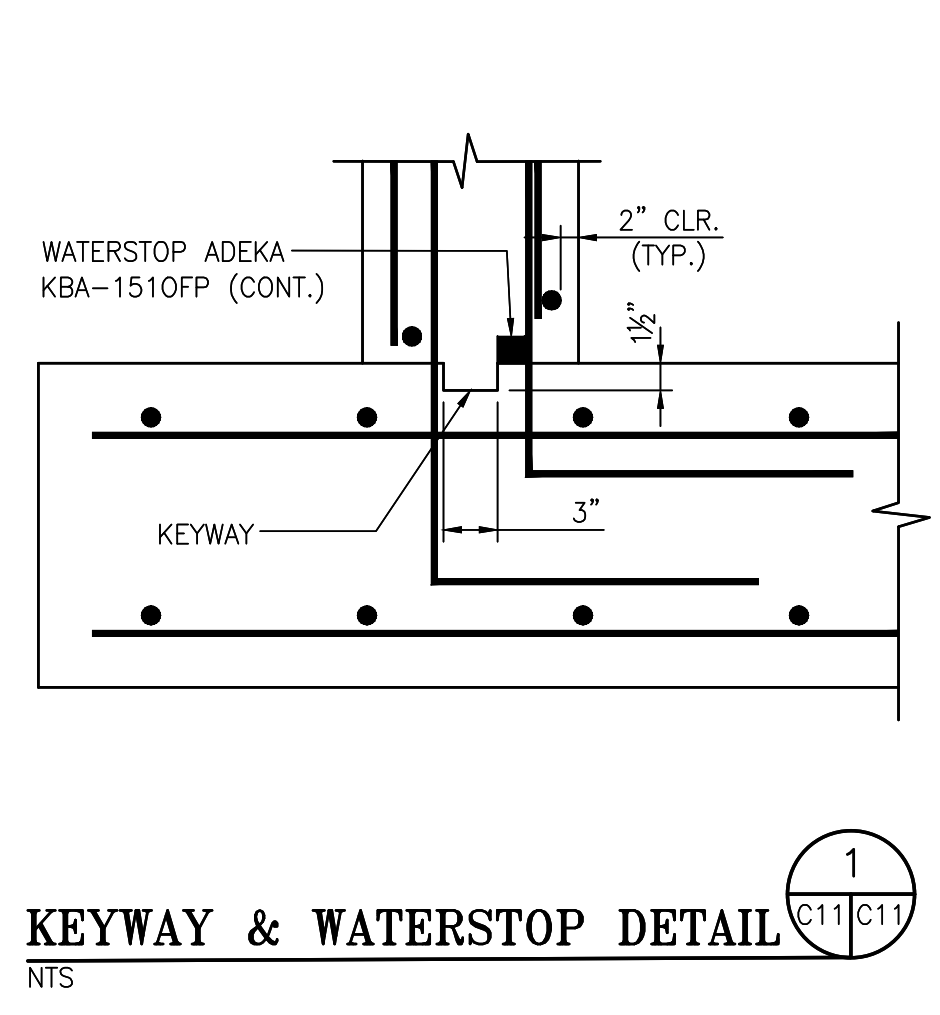
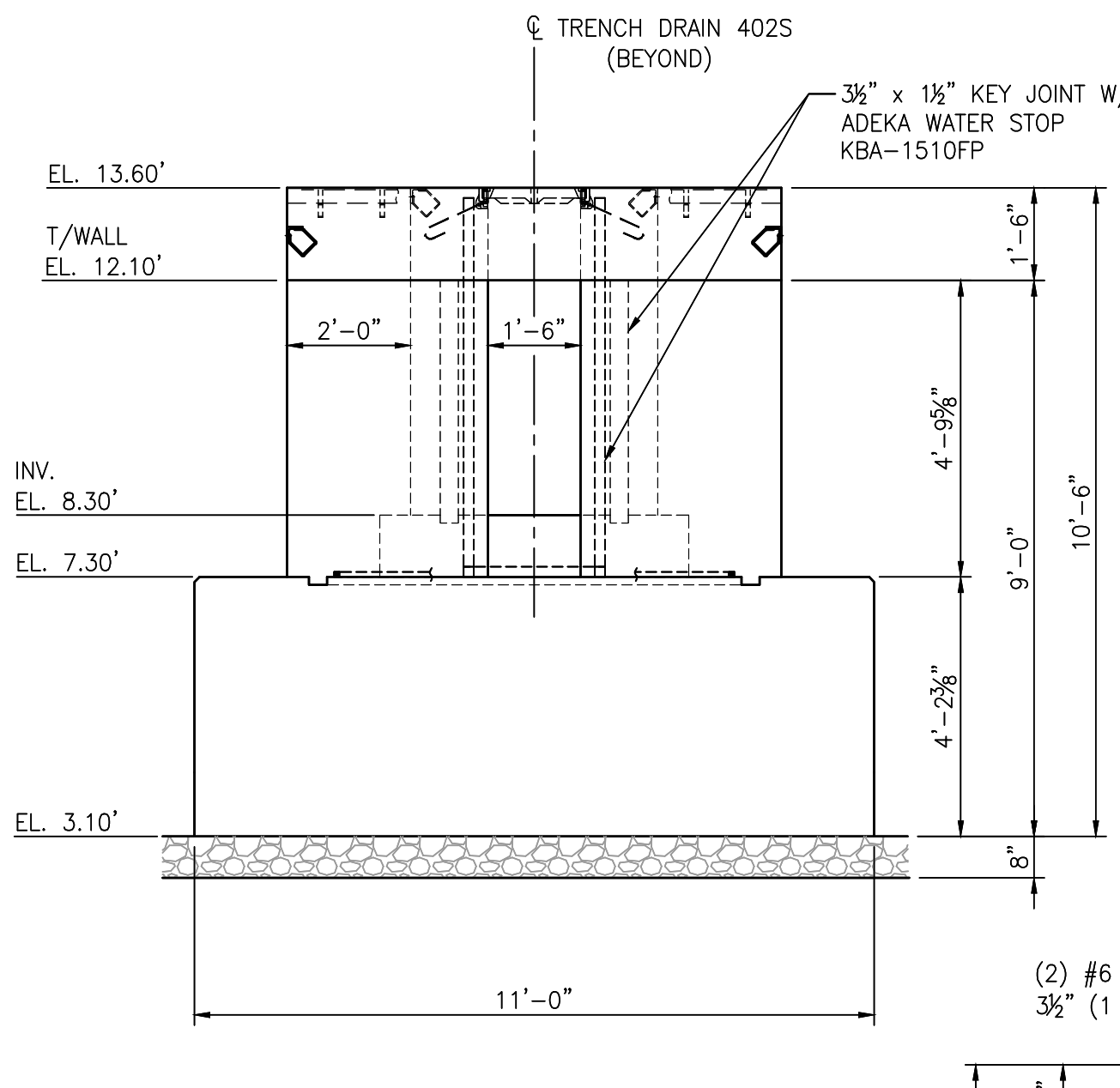
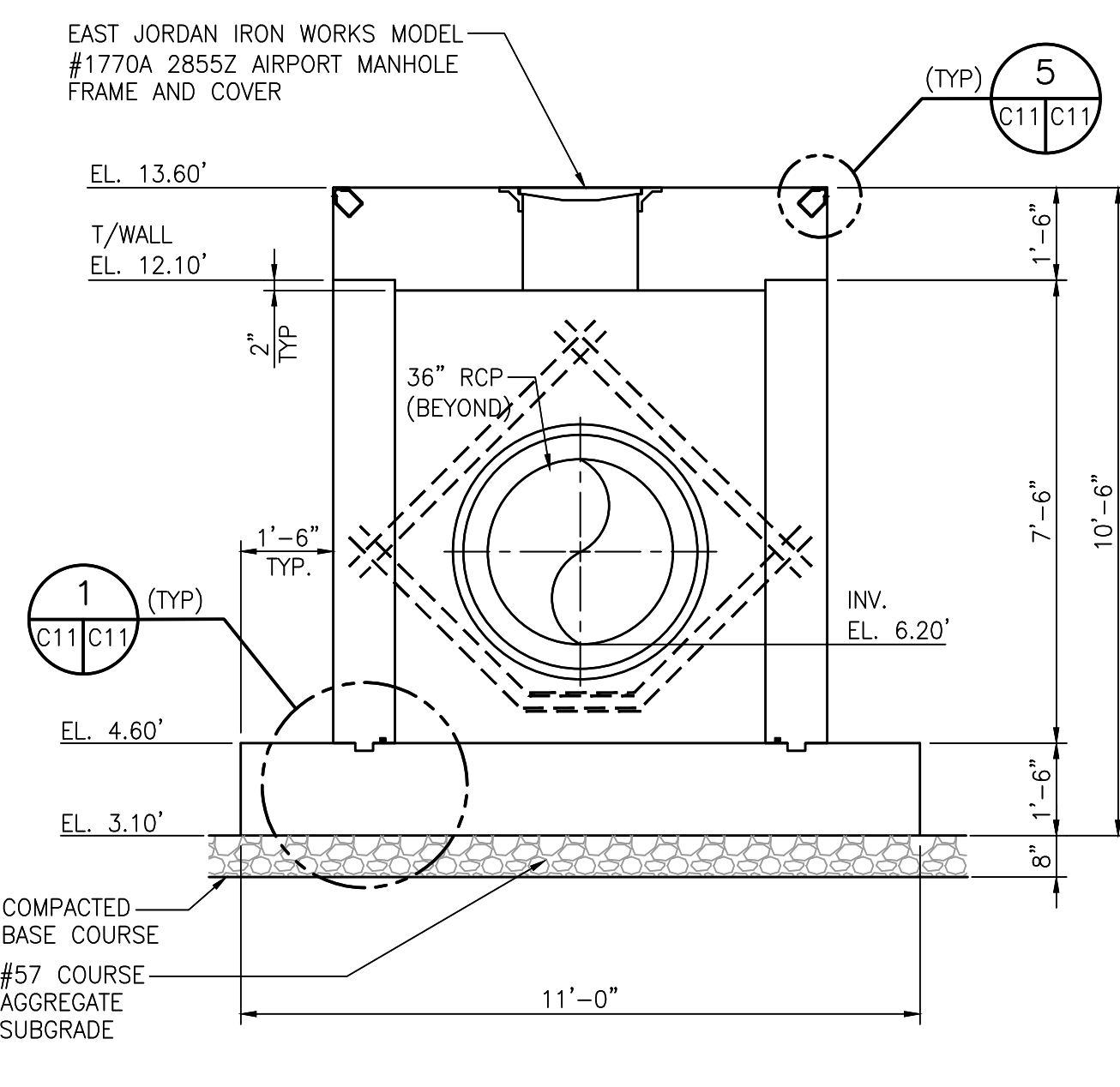
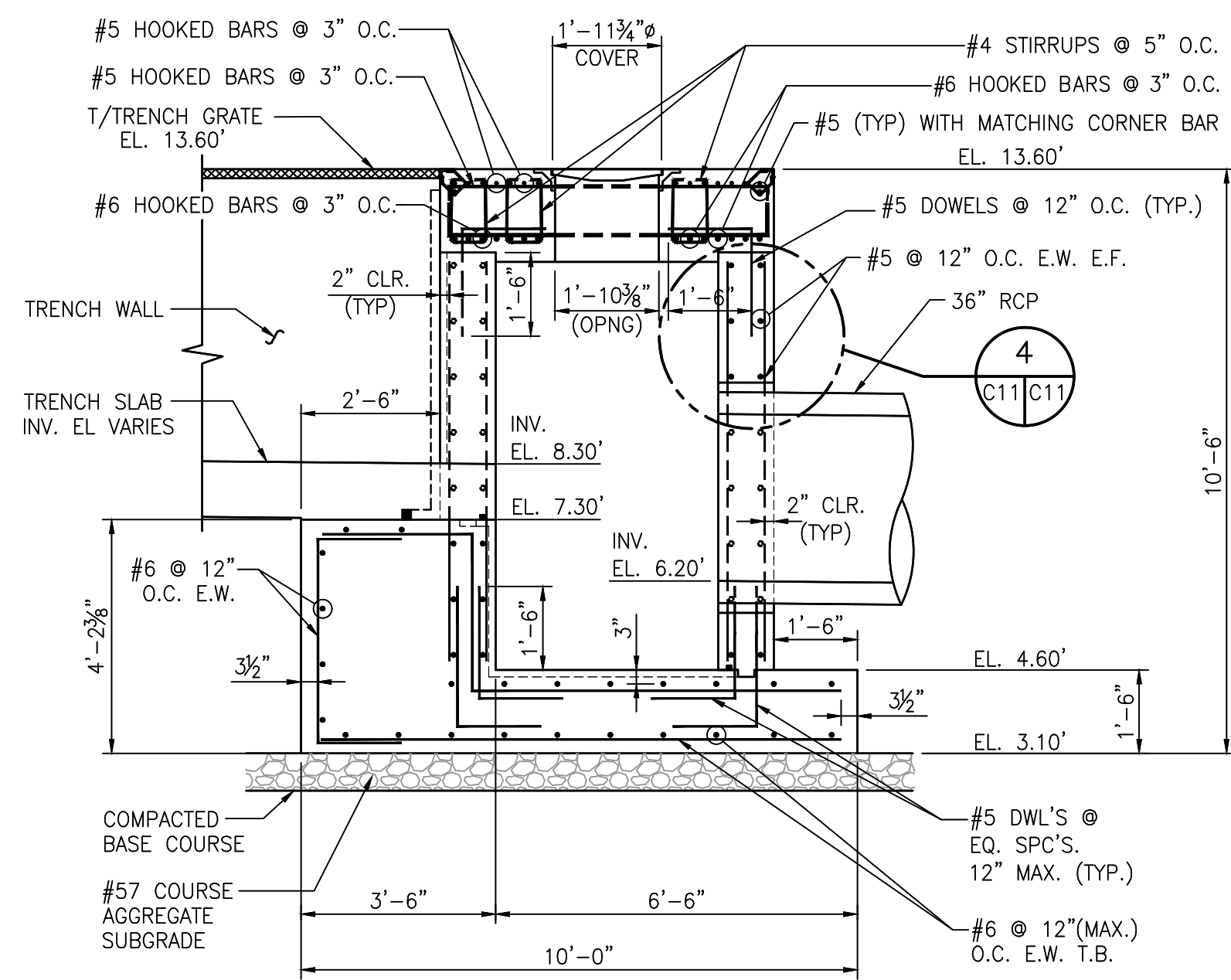
DWG NO: C10

REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24



NOTES

- EMBEDDED ANGLES FOR TOP EDGE PROTECTION AT JUNCTION BOX & TRENCH DRAIN OMITTED IN THIS DETAIL

NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	04/05/24	RST	MED	RSG

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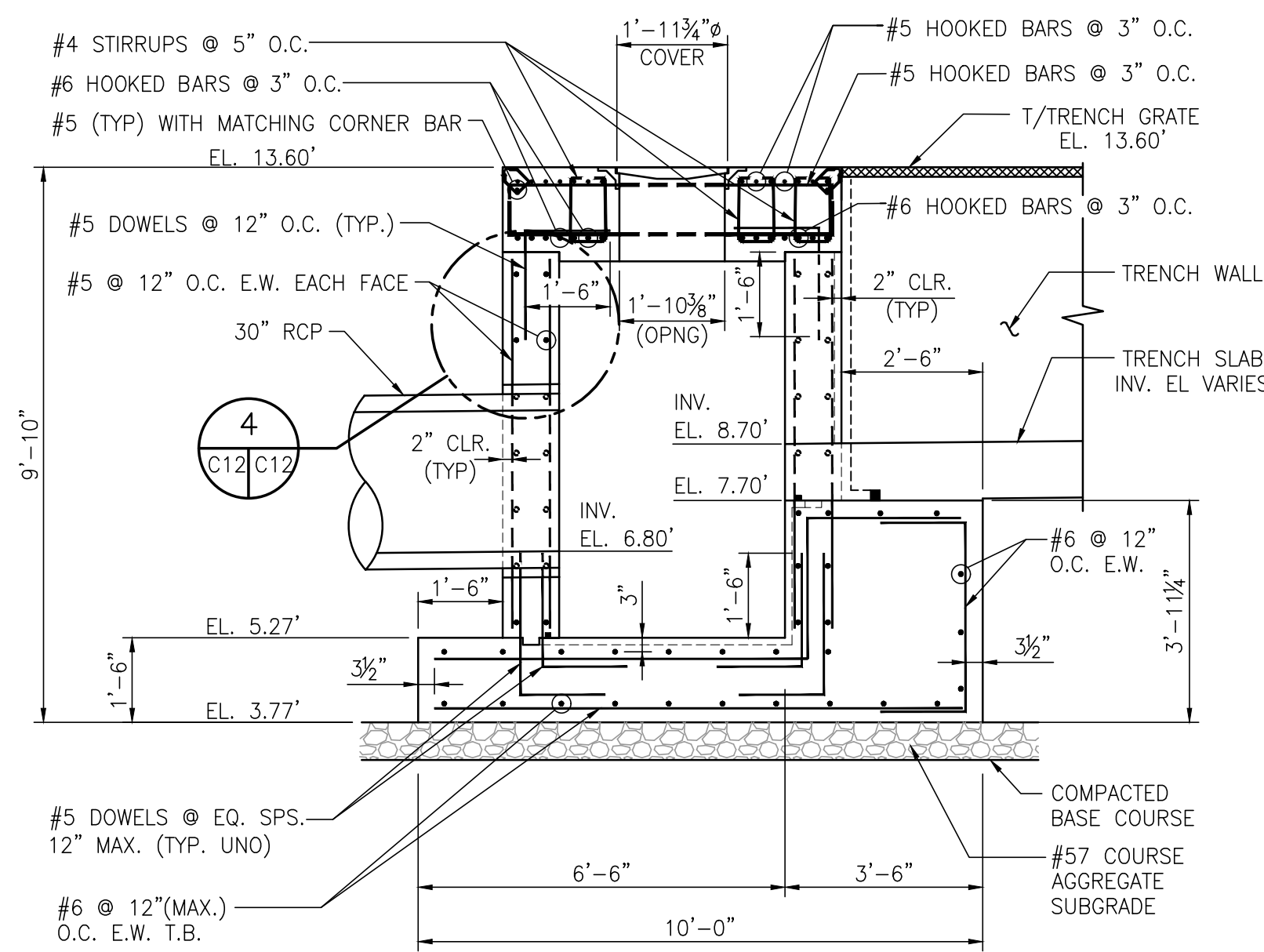
**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

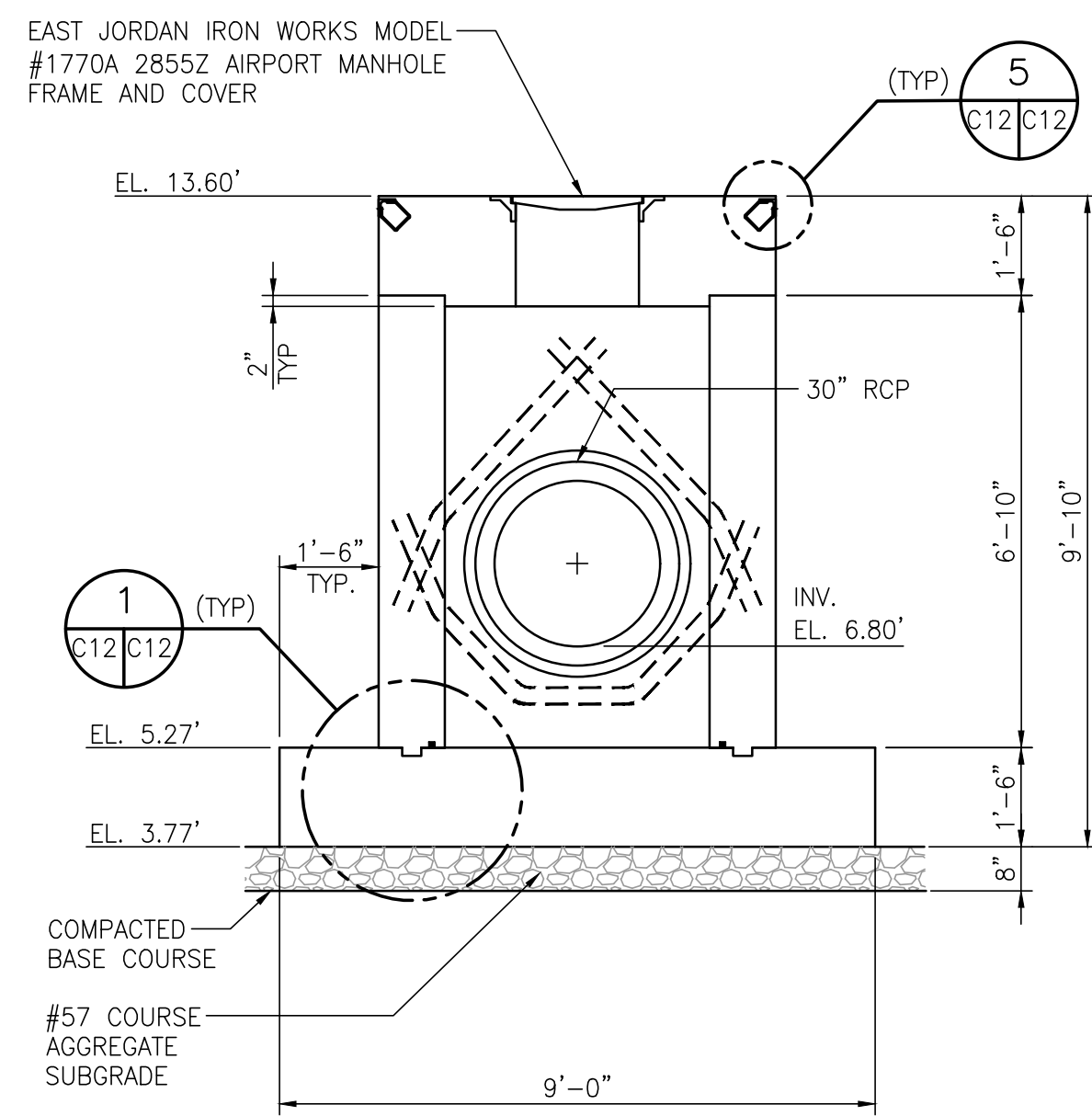
APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-5" DETAILS

FOR: ALABAMA PORT AUTHORITY

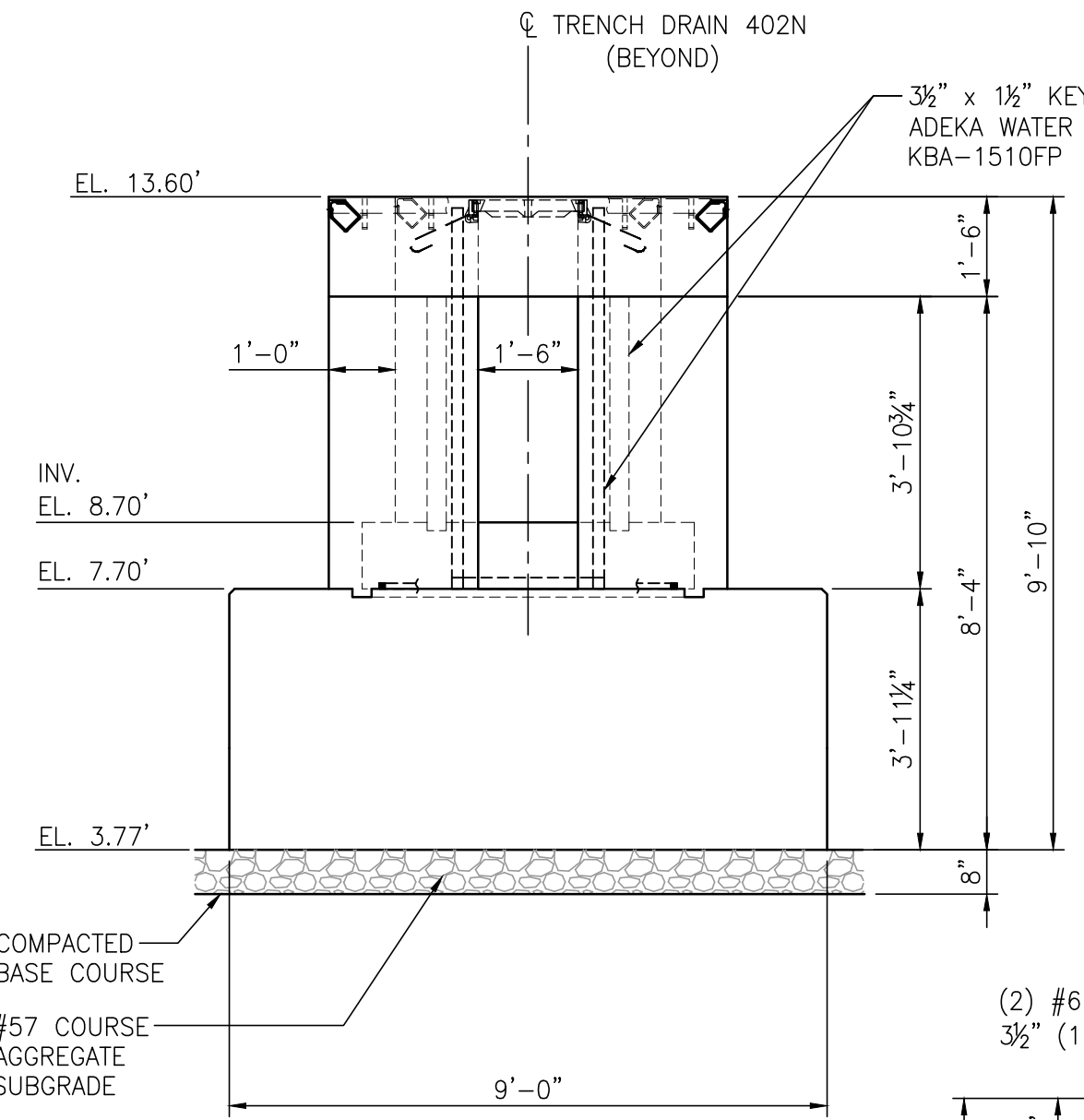
PROJECT NO: 4484 DWG NO: C11 REV: A



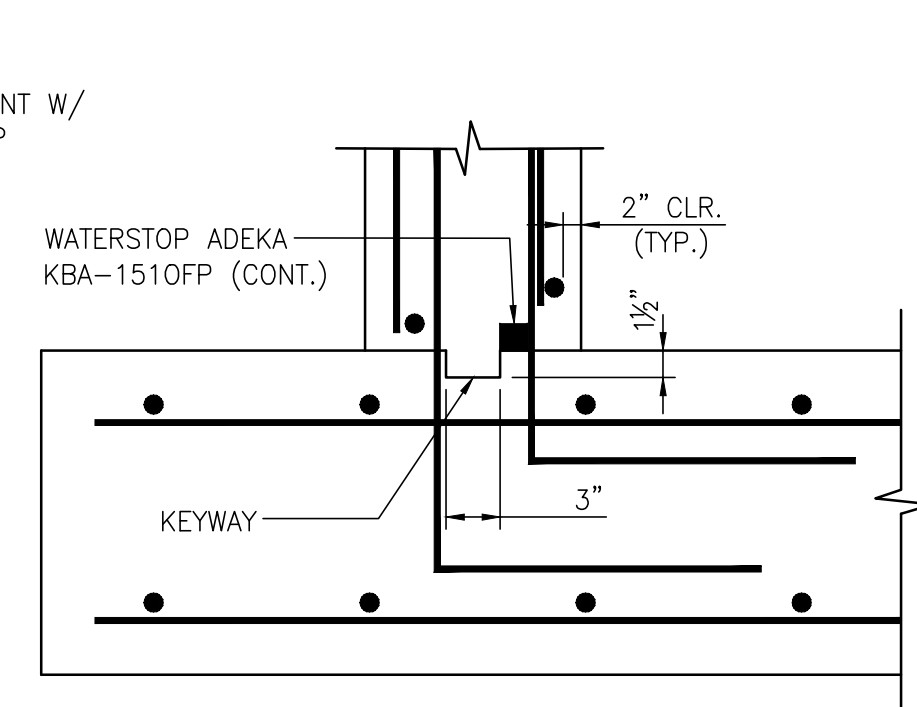
**SECTION A**  
C12/C12  
3/8"=1'-0"



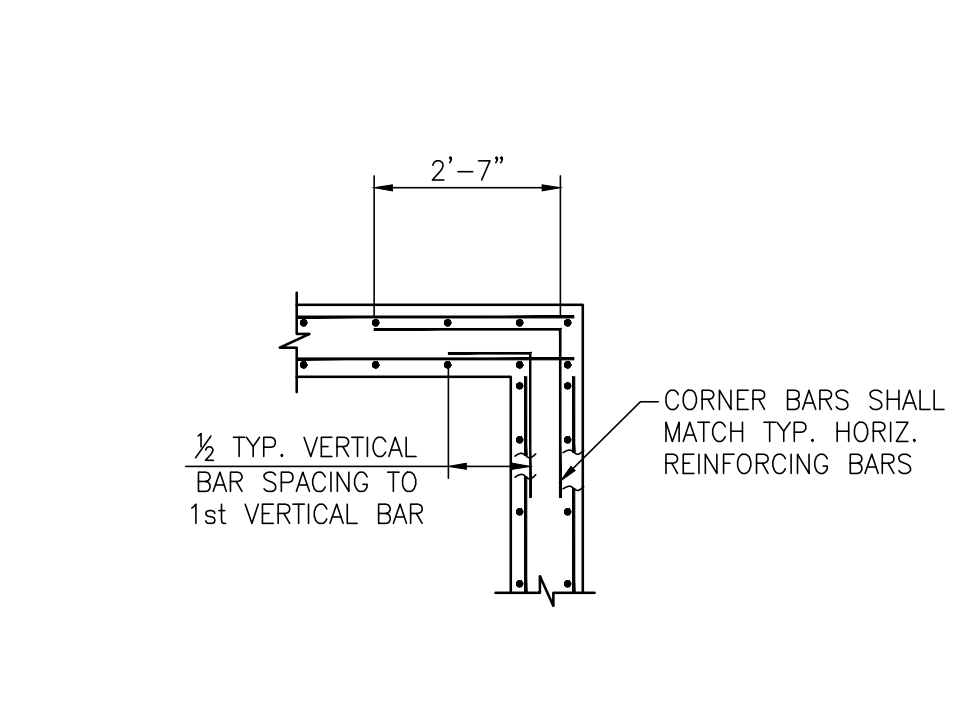
**SECTION B**  
C12/C12  
3/8"=1'-0"  
NOTE: REBAR OMITTED IN SECTION-B



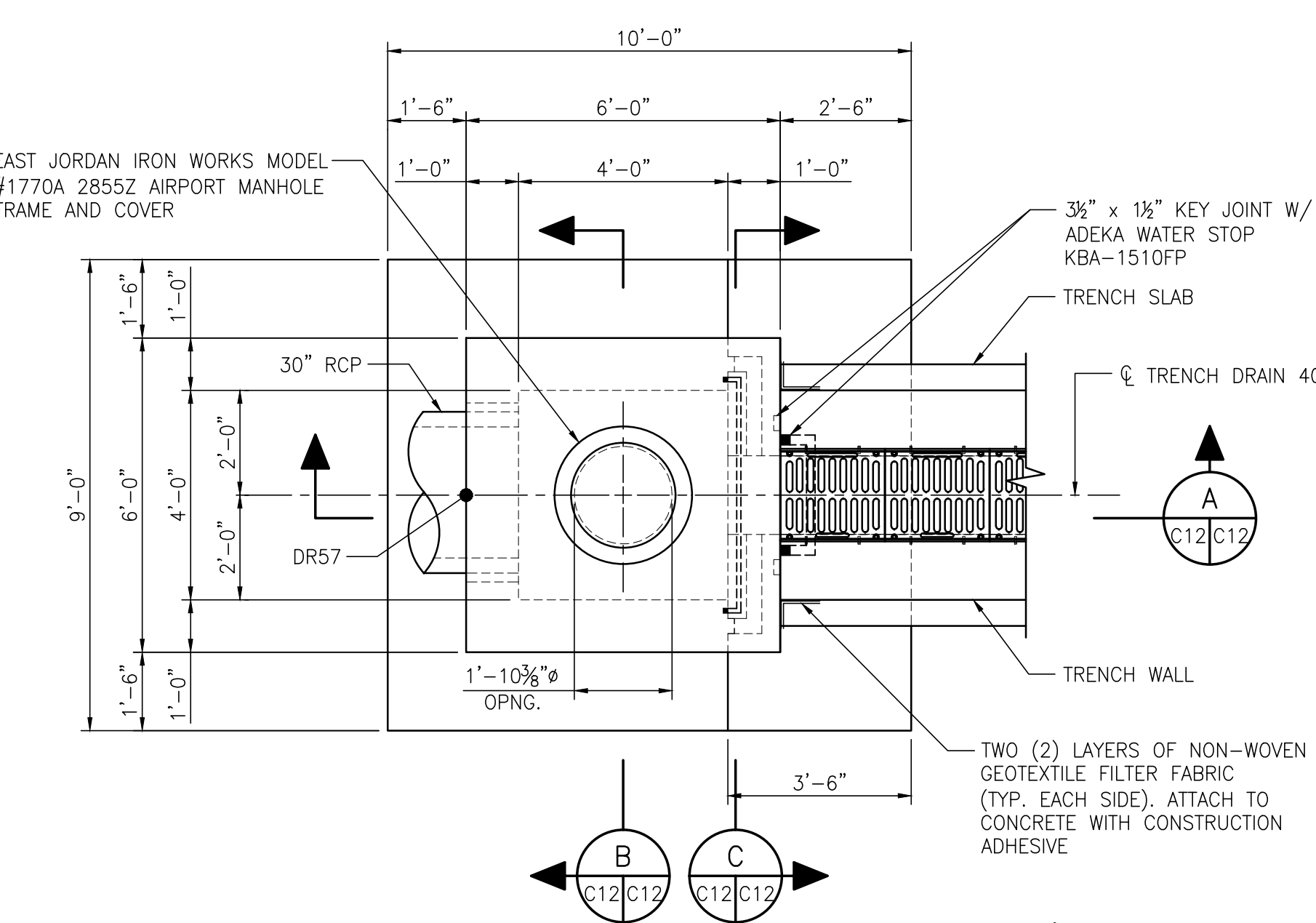
**SECTION C**  
C12/C12  
3/8"=1'-0"  
NOTE: REBAR OMITTED IN SECTION-C



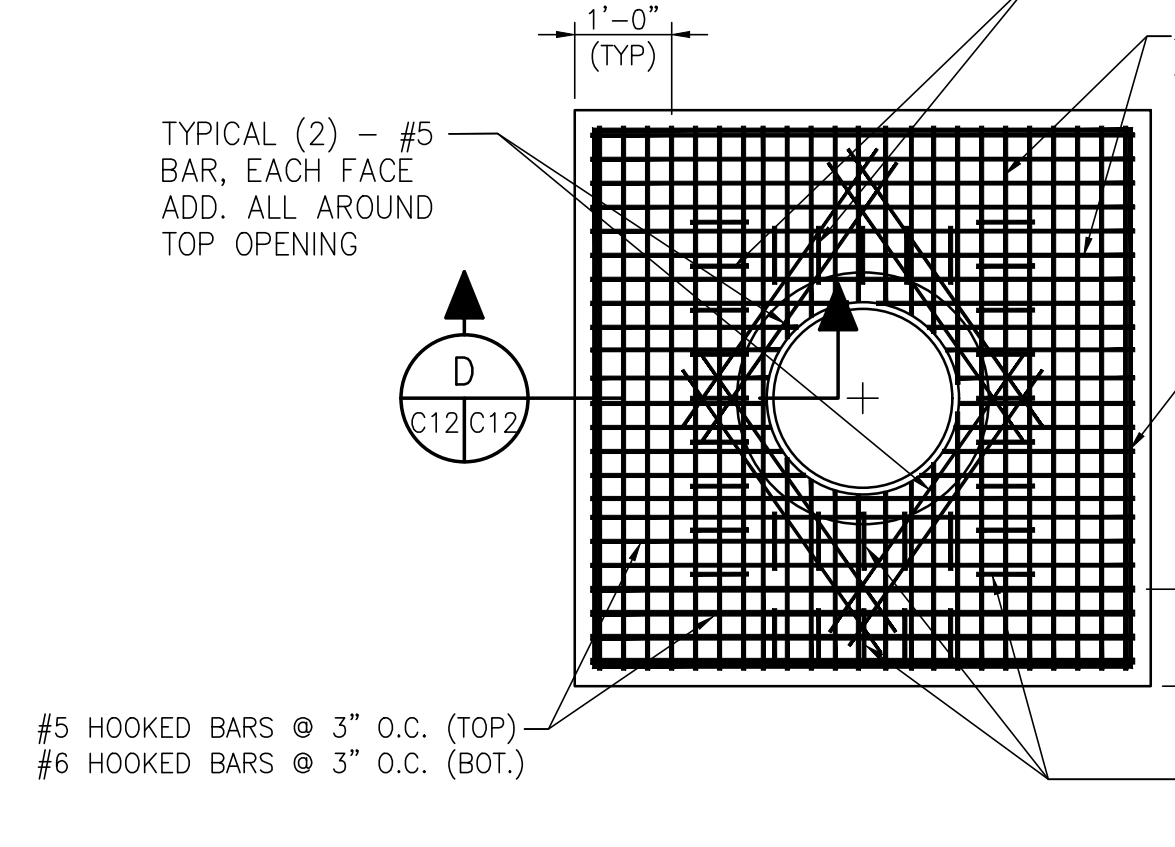
**KEYWAY & WATERSTOP DETAIL**  
C12/C12  
NTS



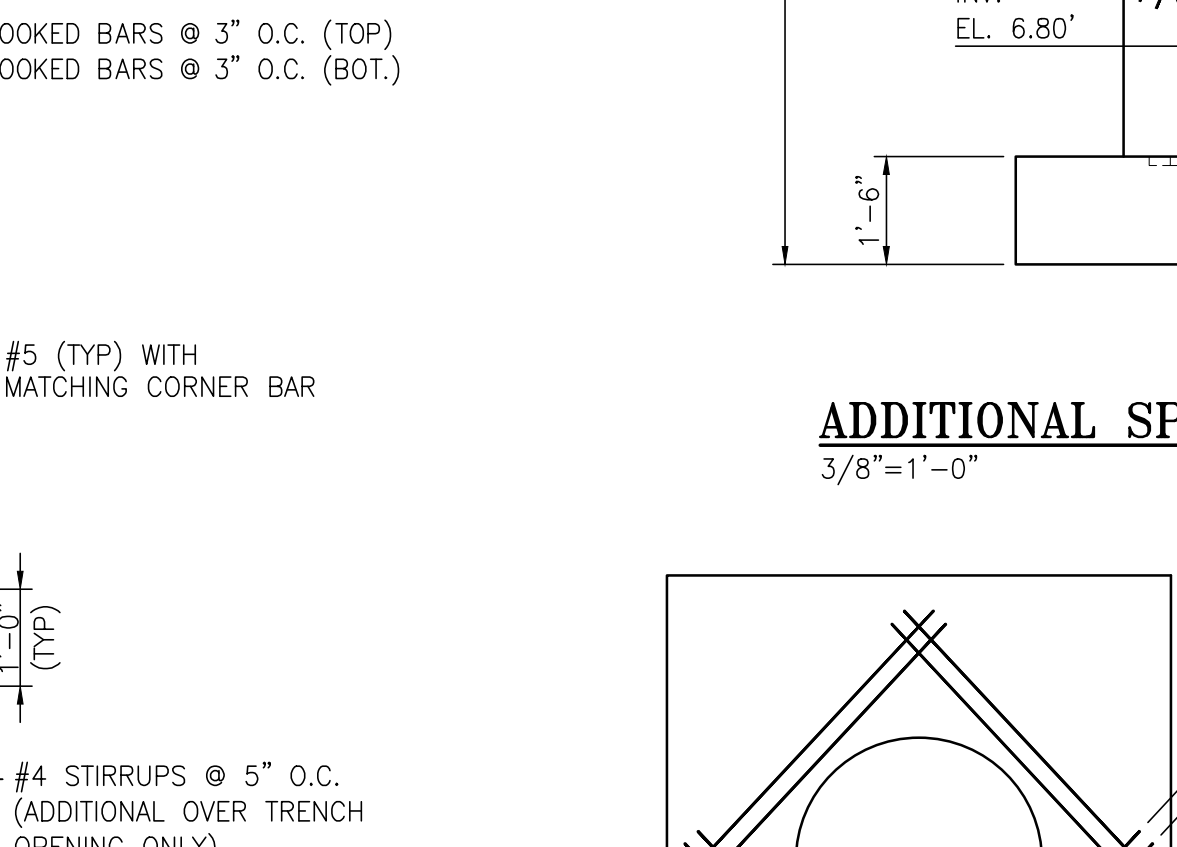
**WALL CORNER REINFORCING**  
C12/C12  
3/8"=1'-0"  
CORNER BARS SHALL MATCH TYP. HORIZ. REINFORCING BARS



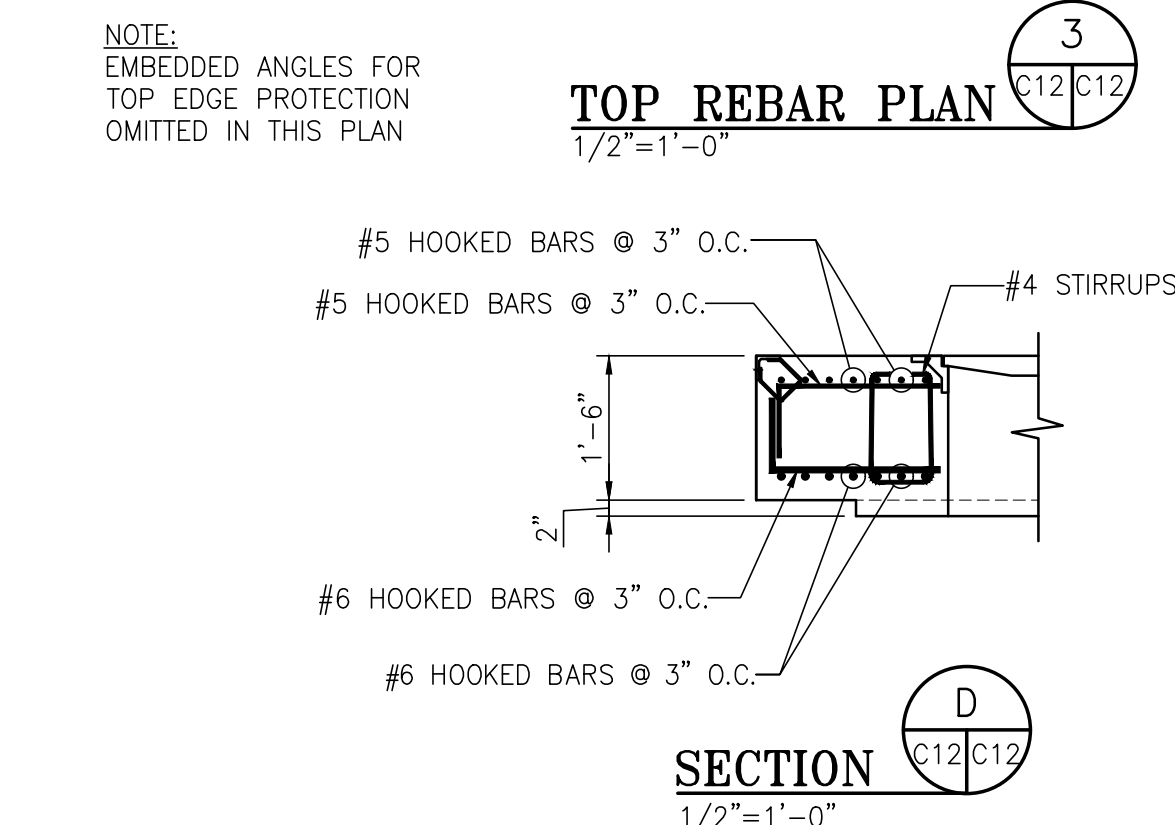
**JUNCTION BOX JB-6**  
C6/C12  
3/8"=1'-0"  
NOTE: EMBEDDED ANGLES FOR TOP EDGE PROTECTION AT JUNCTION BOX & TRENCH DRAIN OMITTED IN THIS DETAIL



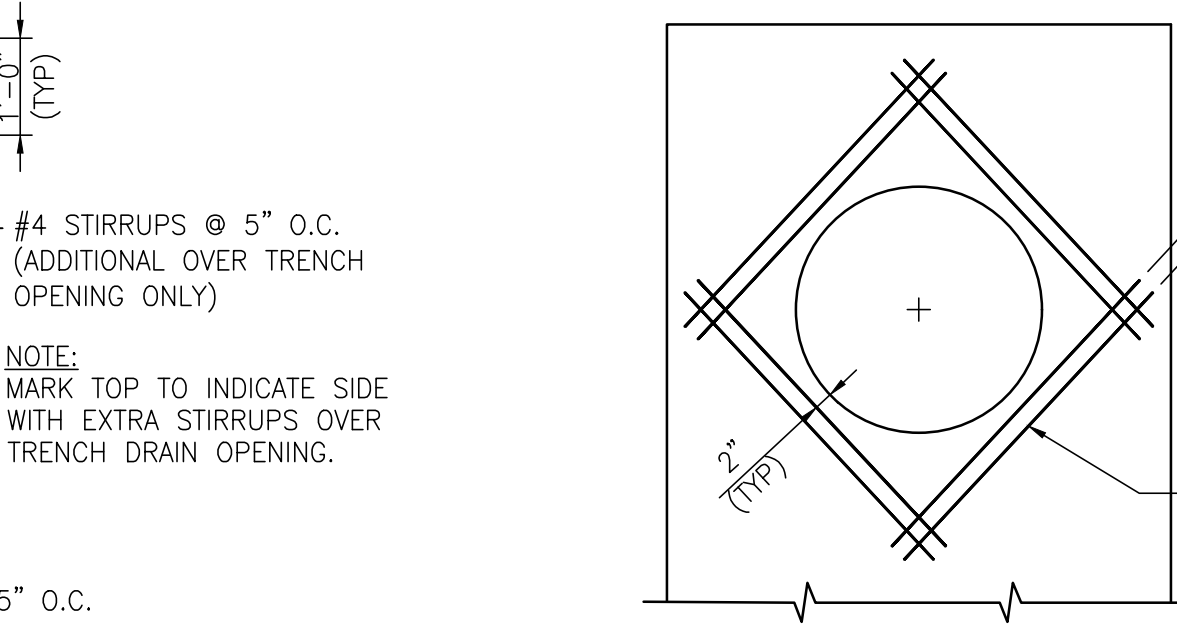
**TOP REBAR PLAN**  
C12/C12  
1/2"=1'-0"  
NOTE: EMBEDDED ANGLES FOR TOP EDGE PROTECTION OMITTED IN THIS PLAN



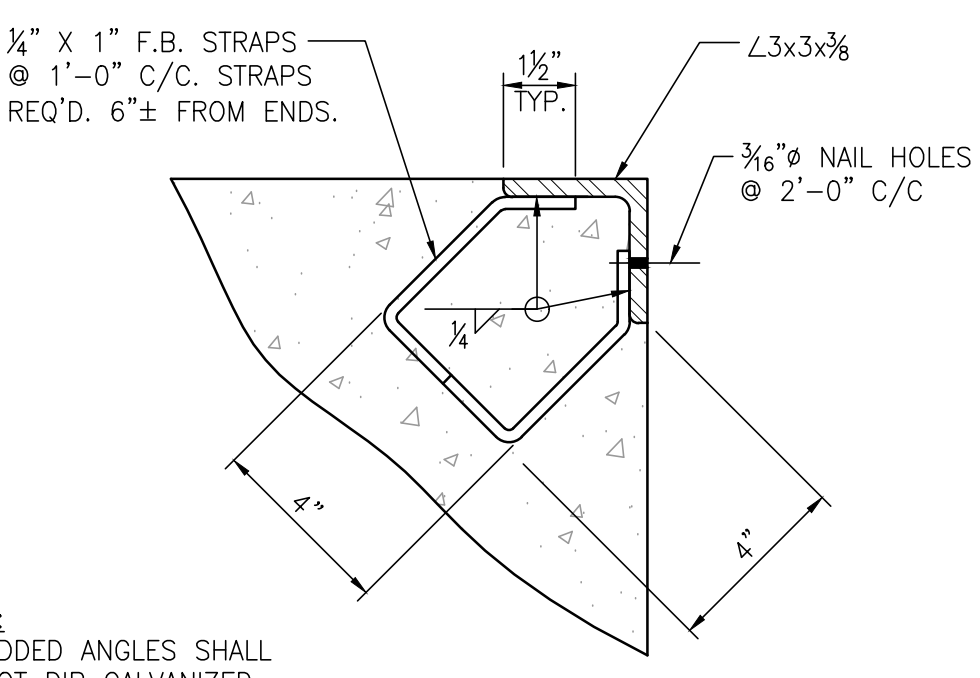
**ADDITIONAL SPANDREL REBAR SECTION**  
C12/C12  
3/8"=1'-0"



**SECTION**  
C12/C12  
1/2"=1'-0"



**ADDITIONAL REBAR AROUND WALL OPENINGS (TYP)**  
C12/C12  
NTS  
NOTE: MARK TOP TO INDICATE SIDE WITH EXTRA STIRRUPS OVER TRENCH DRAIN OPENING.

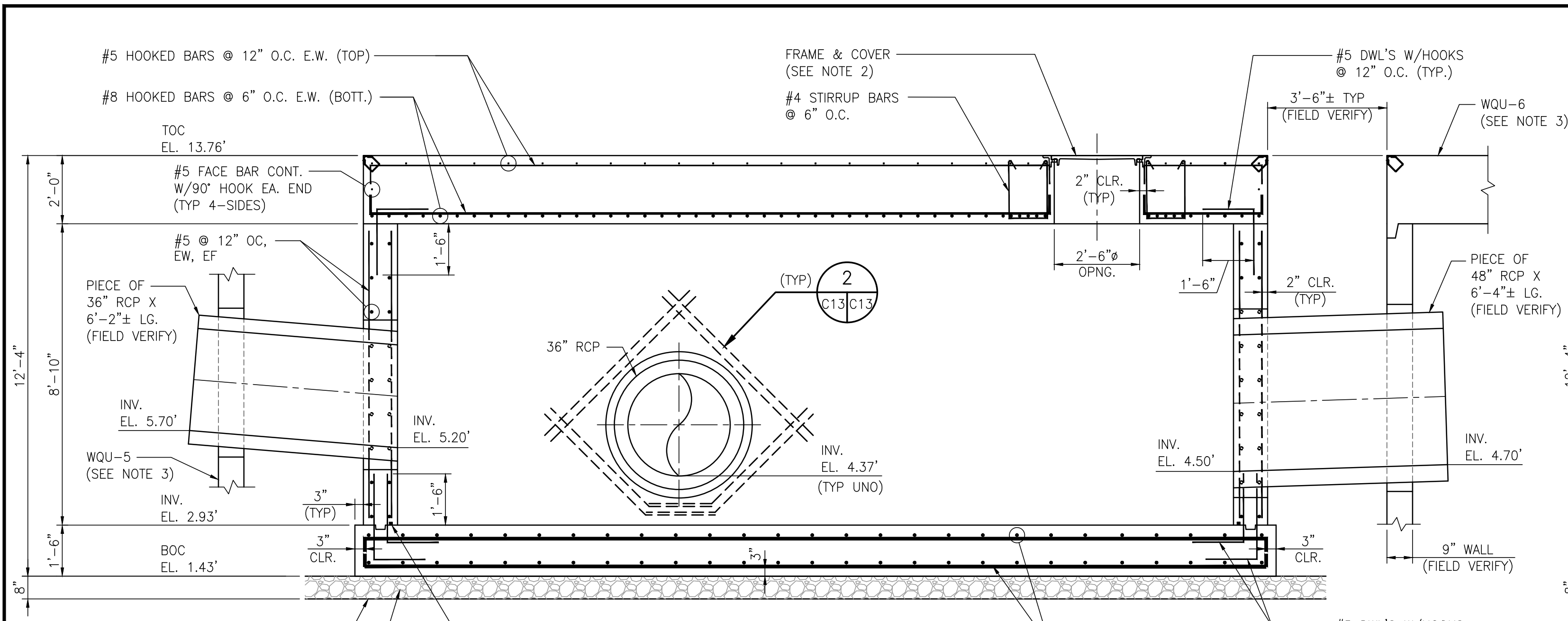


**EMBEDDED ANGLE DETAIL**  
C12/C12  
3"=1'-0"  
NOTE: EMBEDDED ANGLES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

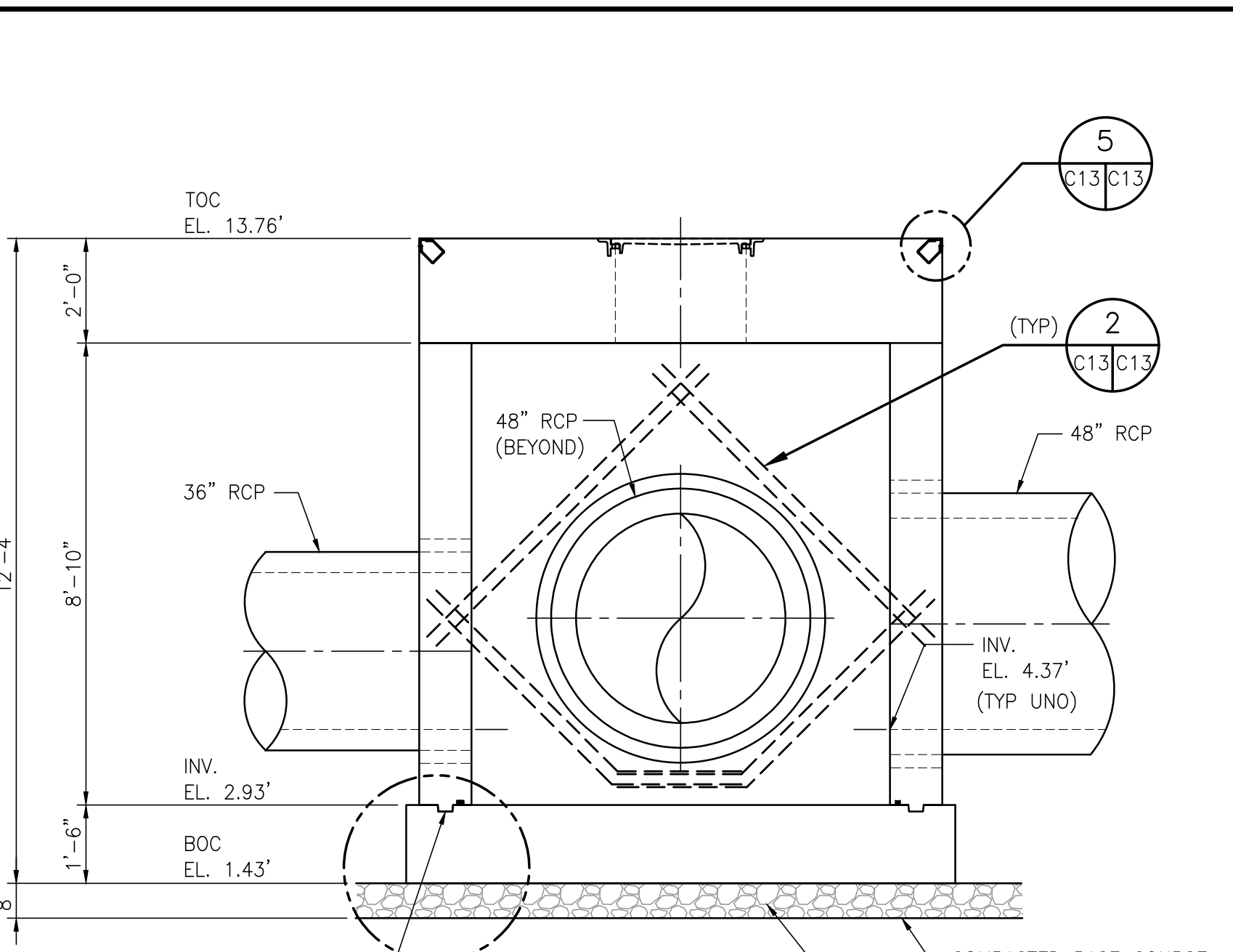
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24
<p>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</p>					
<p>APMT PHASE IV YARD EXPANSION DRAINAGE STRUCTURE JUNCTION BOX "JB-6" DETAILS</p>					
<p>FOR: ALABAMA PORT AUTHORITY</p>					
<p>PROJECT NO: 4484      DWG NO: C12      REV: A</p>					

**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE  
ASPA PROJECT NO: 11261 - TASK 1      ASPA DWG NO:

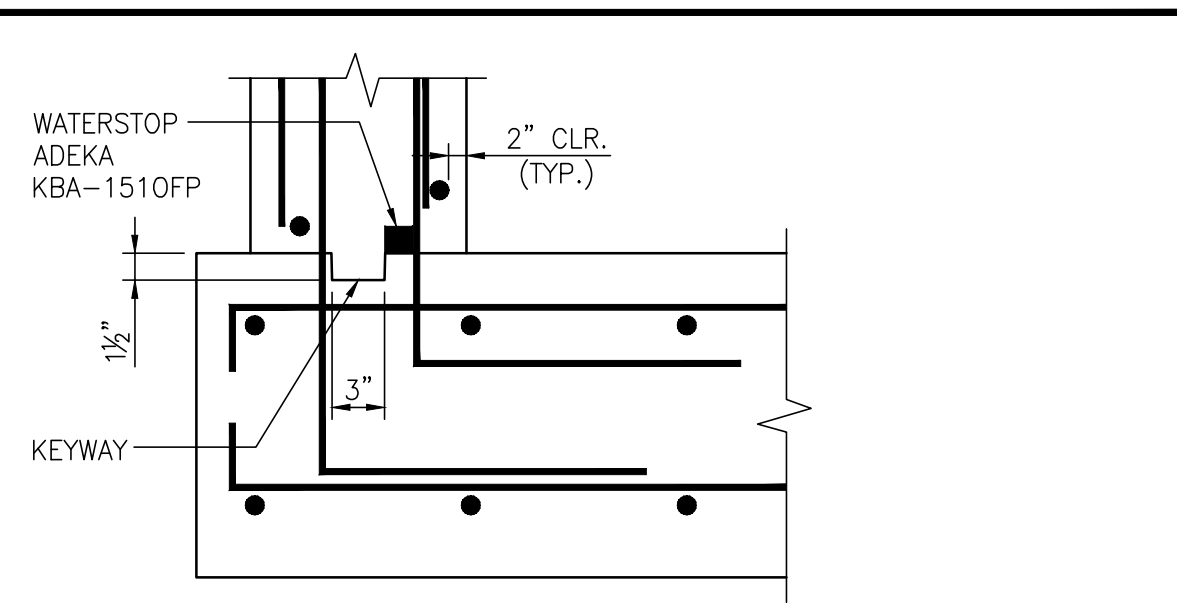
**APTIM**  
PORT SERVICES, LLC



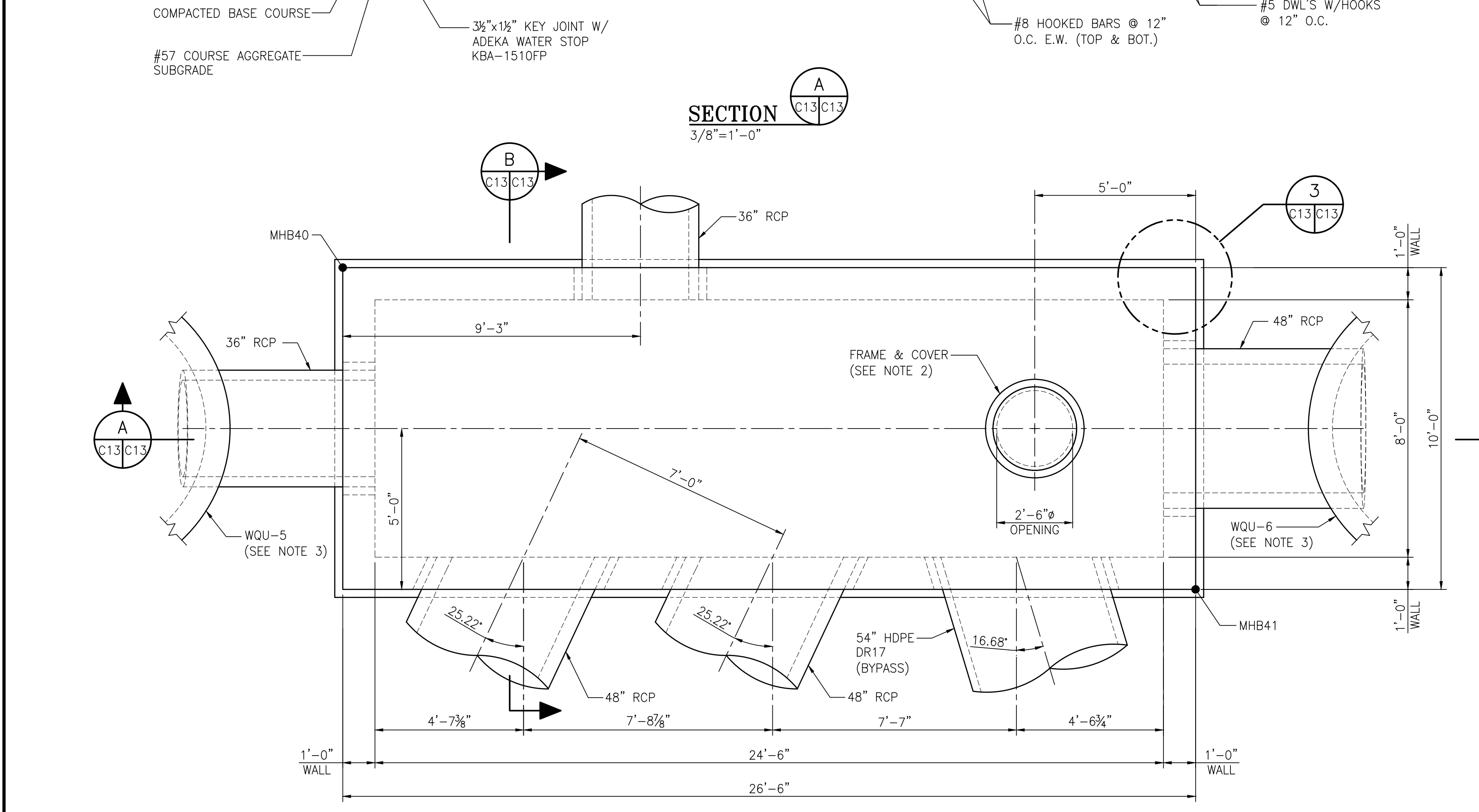
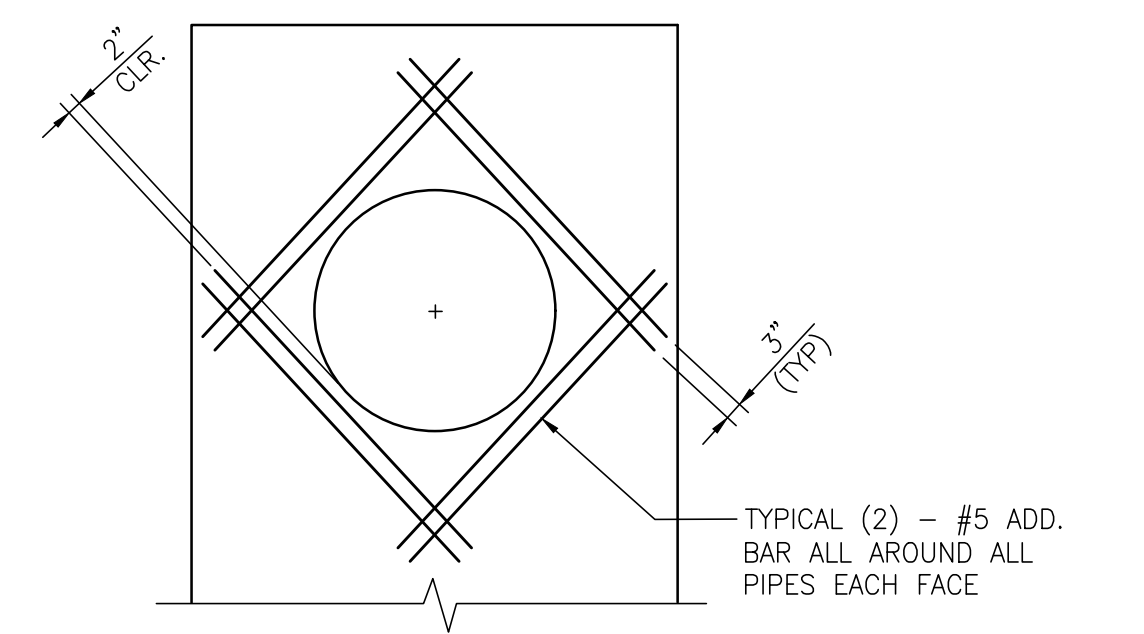
**SECTION A**  
3/8"=1'-0"



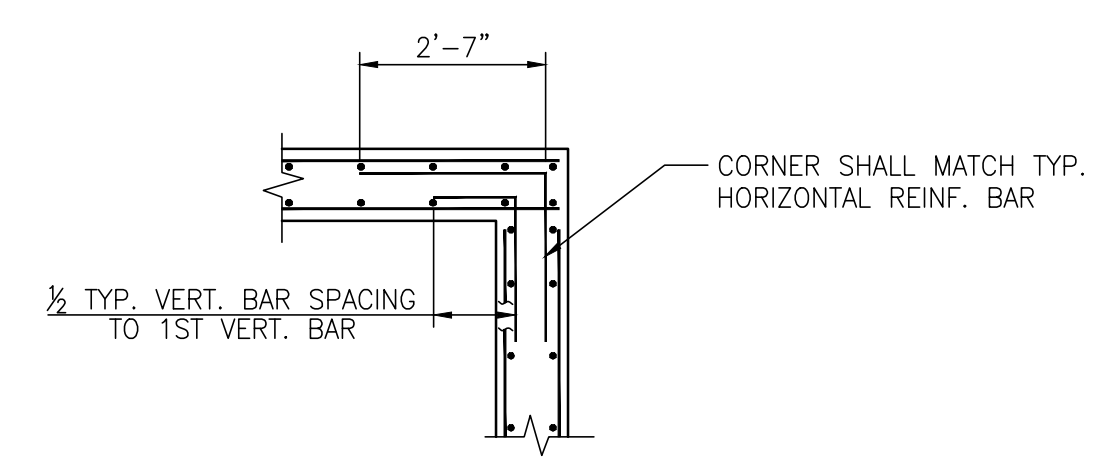
**SECTION B**  
3/8"=1'-0"



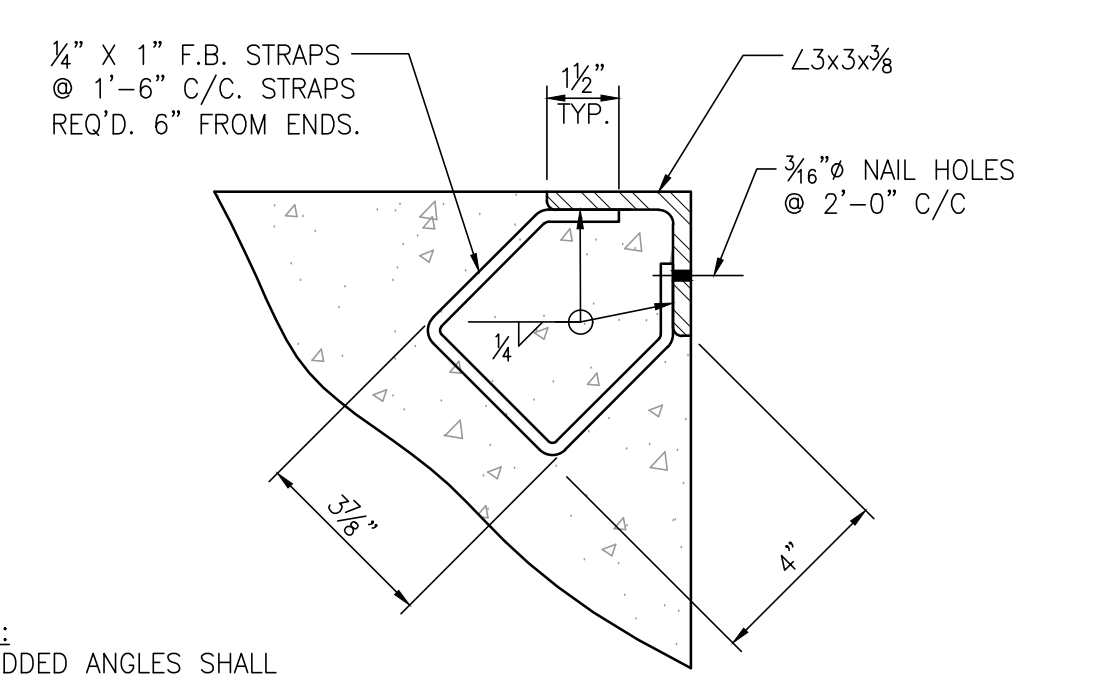
**KEYWAY & WATERSTOP DETAIL**  
N.T.S.



**JUNCTION BOX "JB-7"**  
3/8"=1'-0"

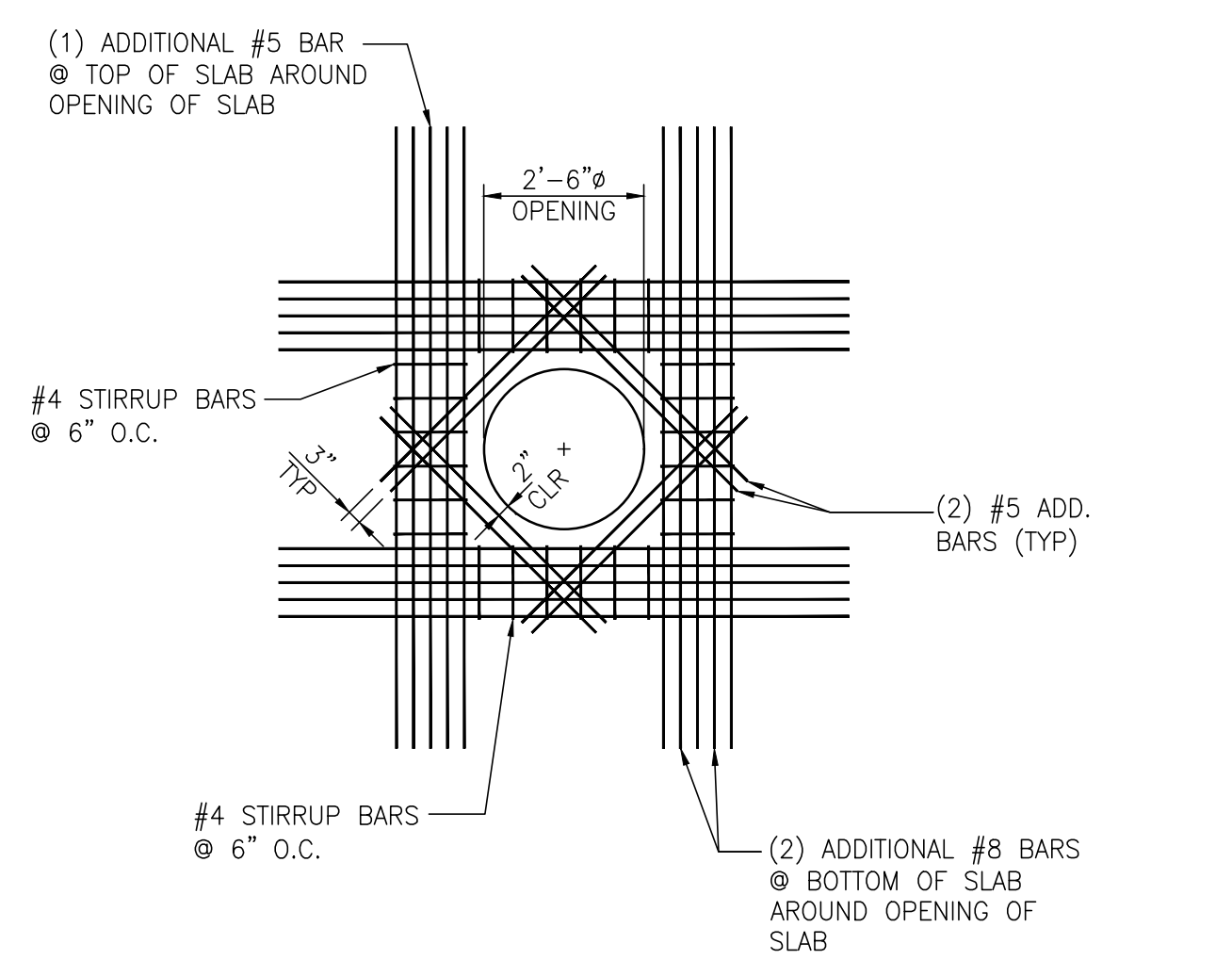


**WALL CORNER REINFORCING (TYP)**  
3/8"=1'-0"



**EMBEDDED ANGLE DETAIL**  
3"=1'-0"

**ADD. REBAR AROUND WALL OPENINGS (TYP)**  
N.T.S.



**ADD. REBAR AROUND TOP OPENING**  
3/8"=1'-0"

NOTE:  
EMBEDDED ANGLES FOR  
TOP EDGE PROTECTION  
OMITTED IN THIS DETAIL

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS MODEL #1810A2VH V1600-4 AIRPORT RATED MANHOLE FRAME & COVER CAPACITY = 200+ KIPS
  - SEE DRAWING C26 FOR SIMILAR STANDARD WATER QUALITY UNIT DETAIL & NOTES. REFER TO VENDOR SUPPLIED SHOP DRAWINGS OF WATER QUALITY UNITS FOR DIMENSIONS & DETAILS DURING INSTALLATION.

NO.	REVISION	DATE	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	04/05/24	RST	MED	RSG	04/05/24

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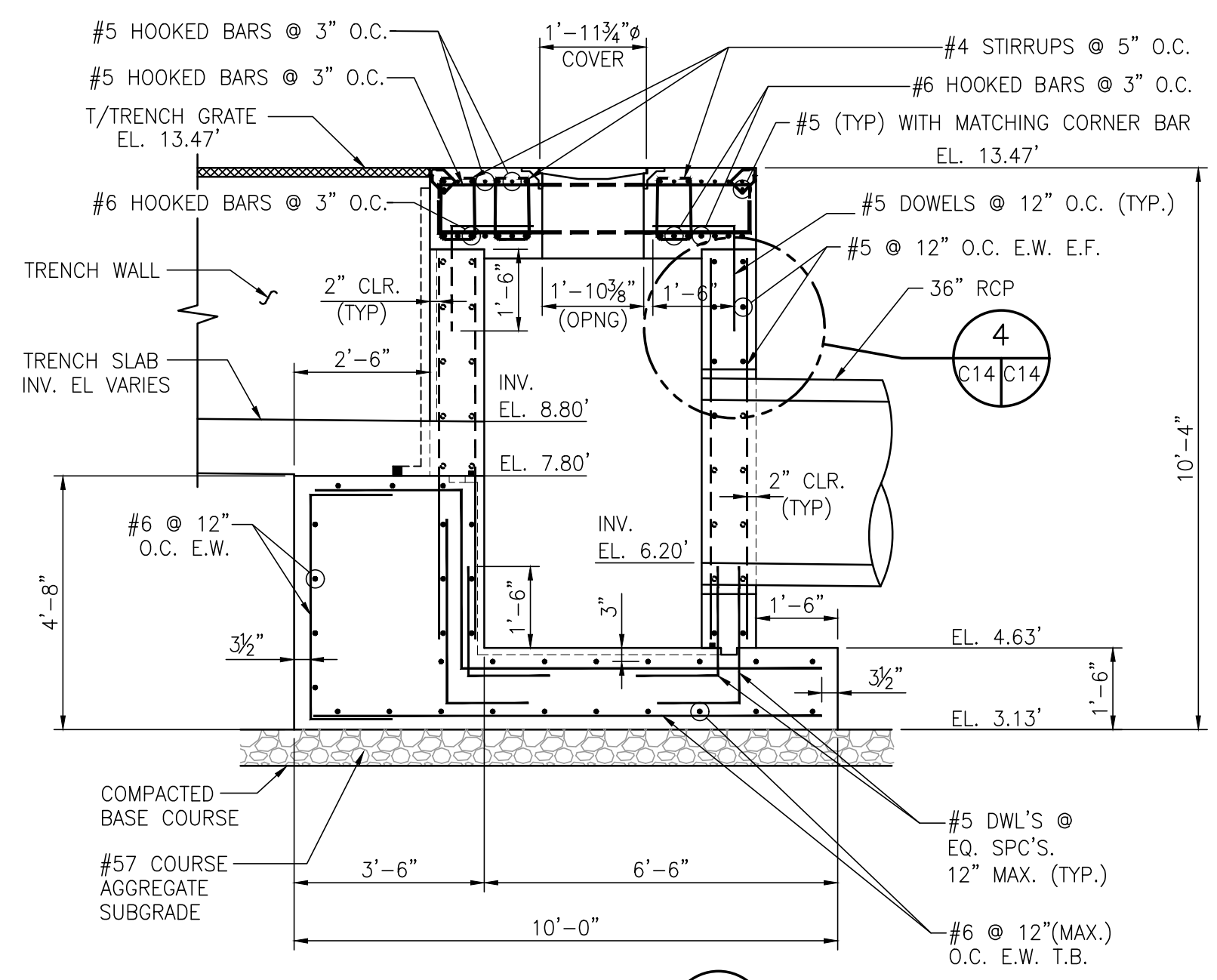
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

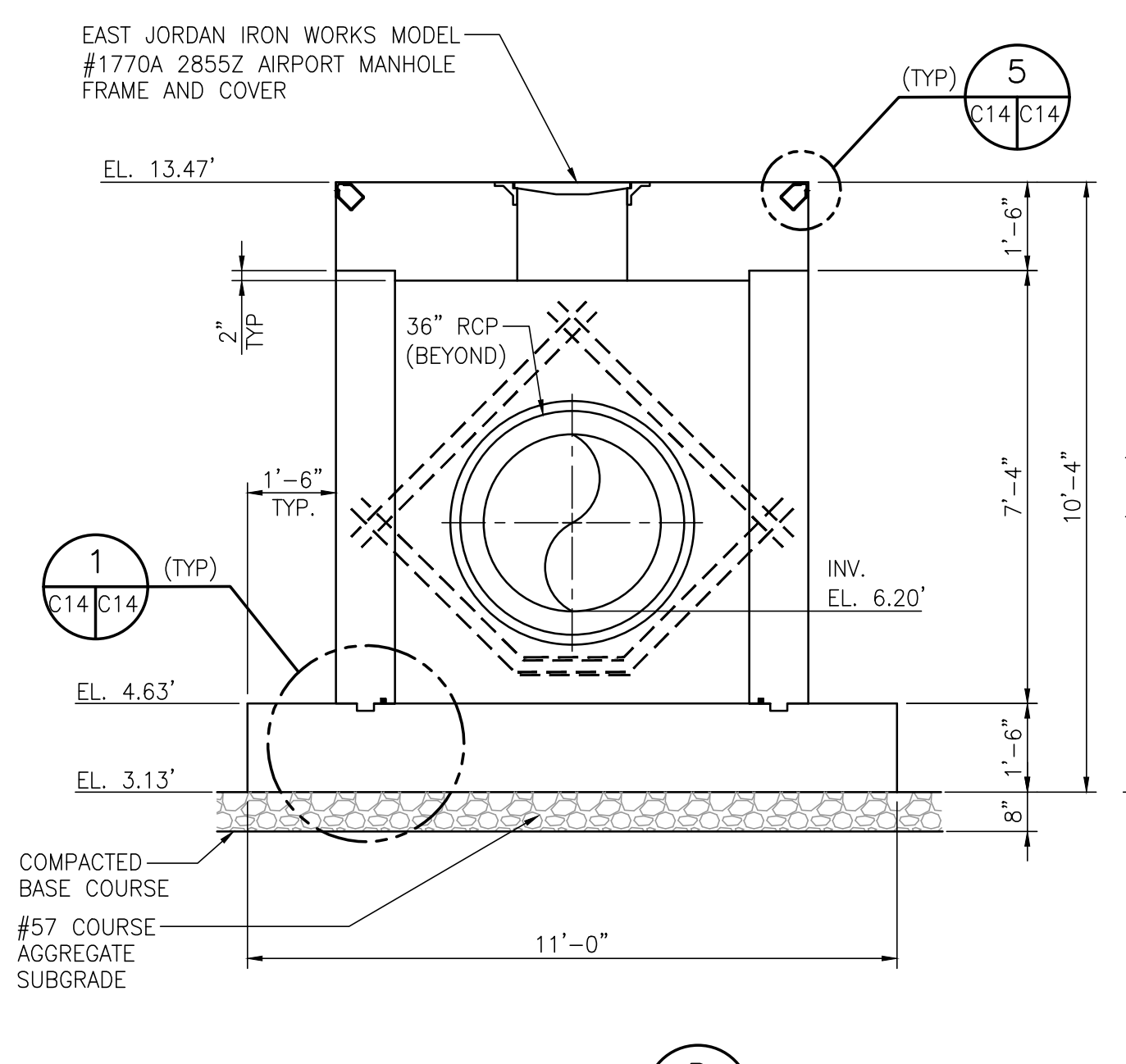
APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-7" DETAILS

FOR: ALABAMA PORT AUTHORITY

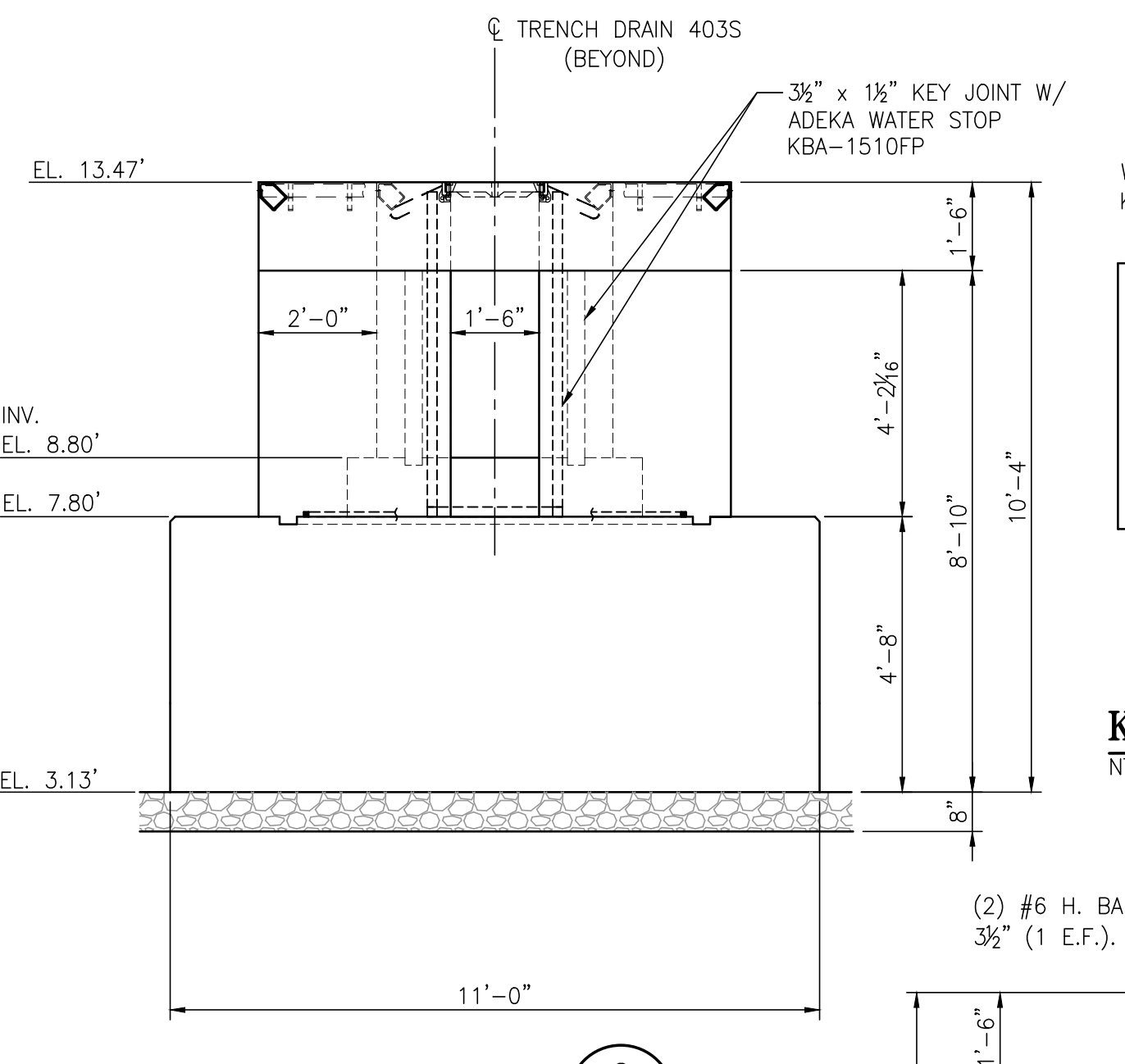
PROJECT NO: 4484	DWG NO: C13	REV: A
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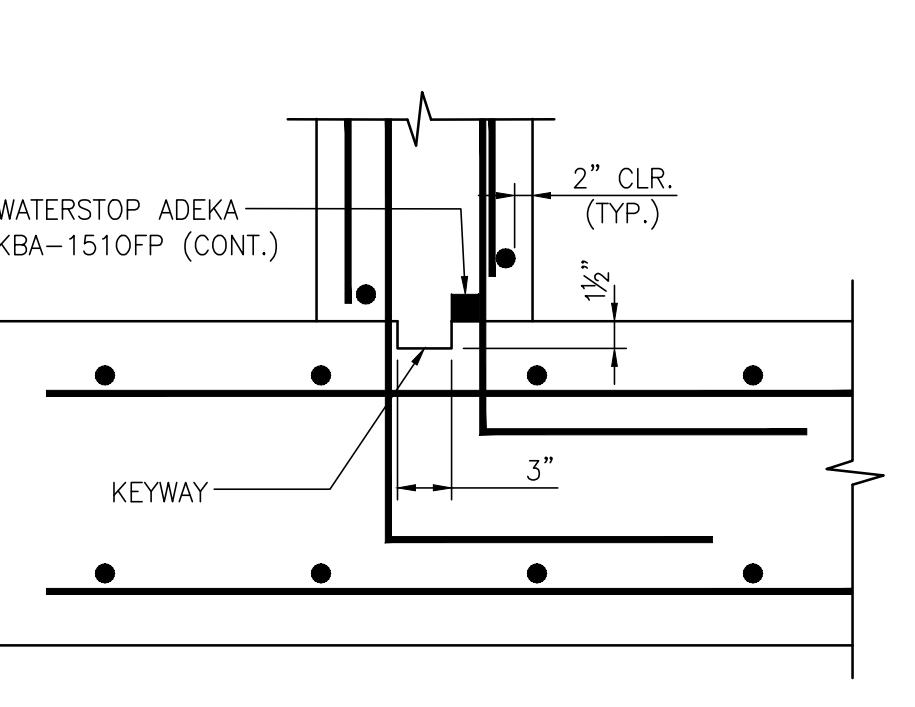
**SECTION A**  
C14/C14  
3/8"=1'-0"



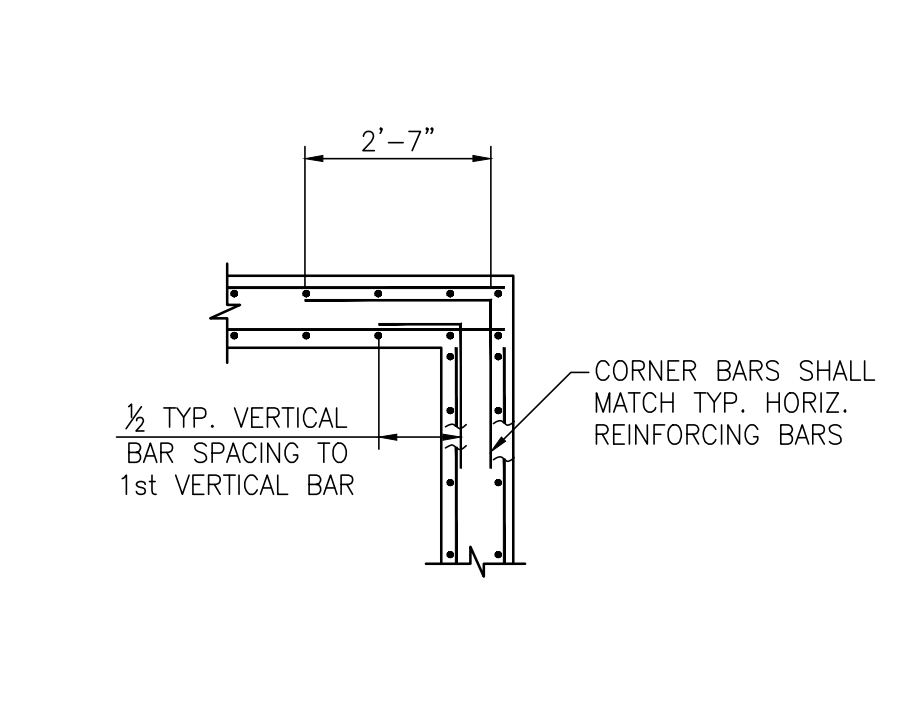
NOTE: REBAR OMITTED IN SECTION-B  
**SECTION B**  
C14/C14  
3/8"=1'-0"



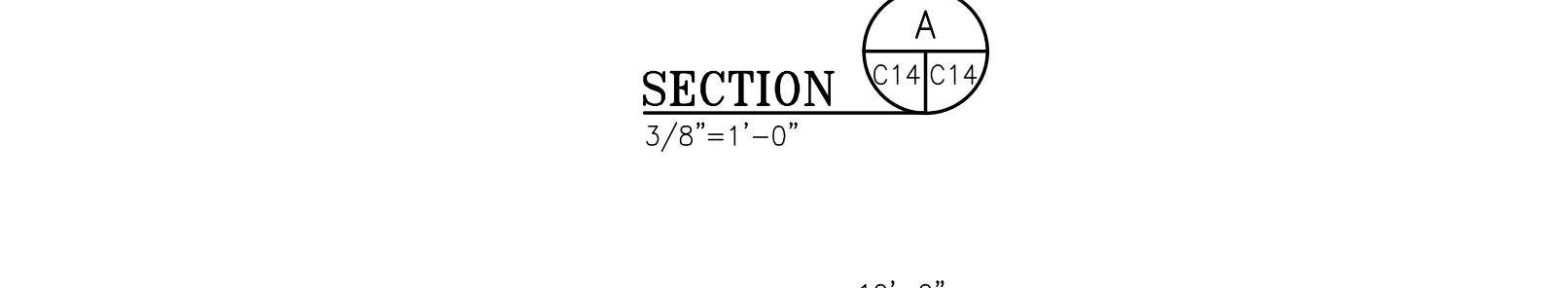
NOTE: REBAR OMITTED IN SECTION-C  
**SECTION C**  
C14/C14  
3/8"=1'-0"



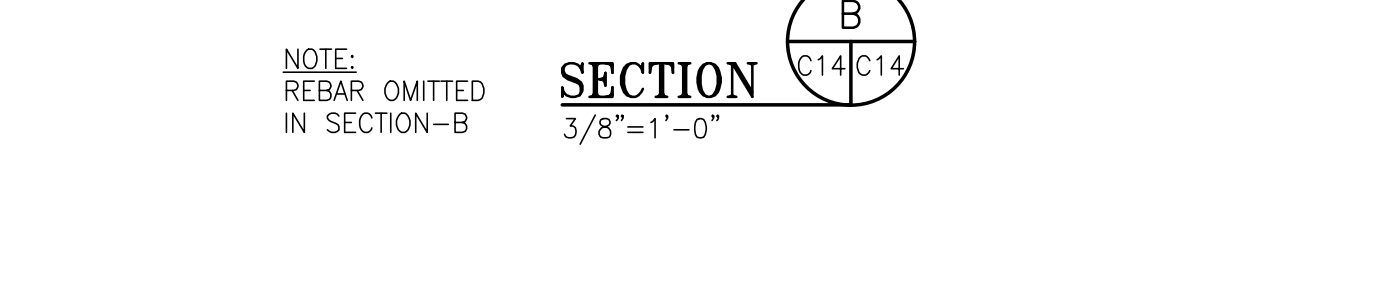
**KEYWAY & WATERSTOP DETAIL**  
C14/C14  
NTS



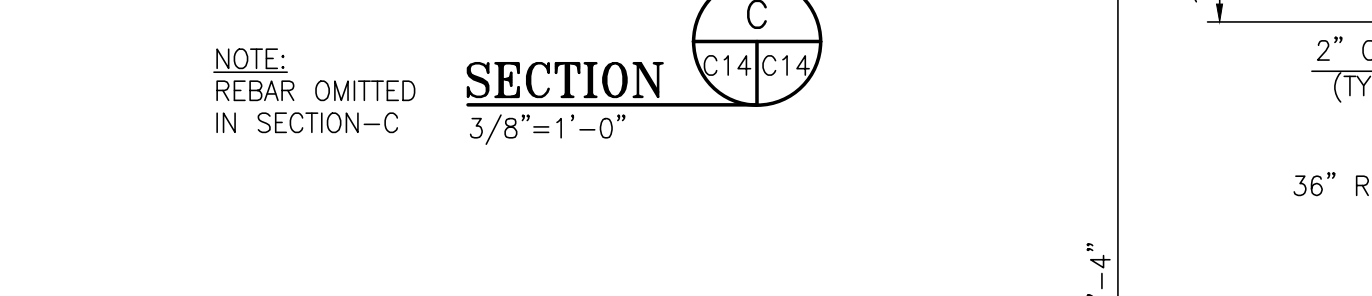
**WALL CORNER REINFORCING**  
C14/C14  
3/8"=1'-0"



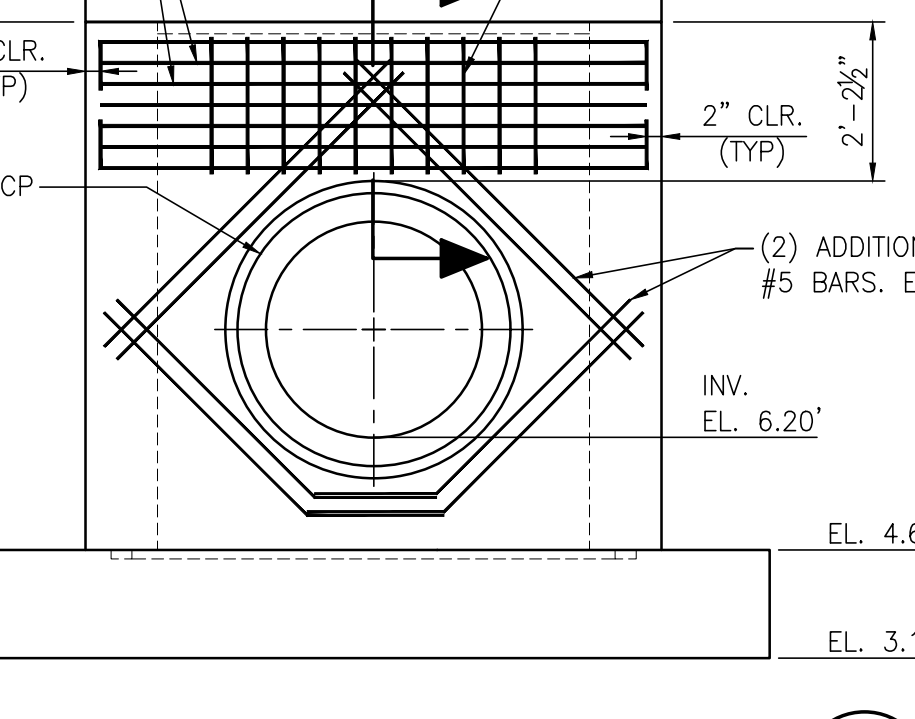
**SECTION A**  
C14/C14  
3/8"=1'-0"



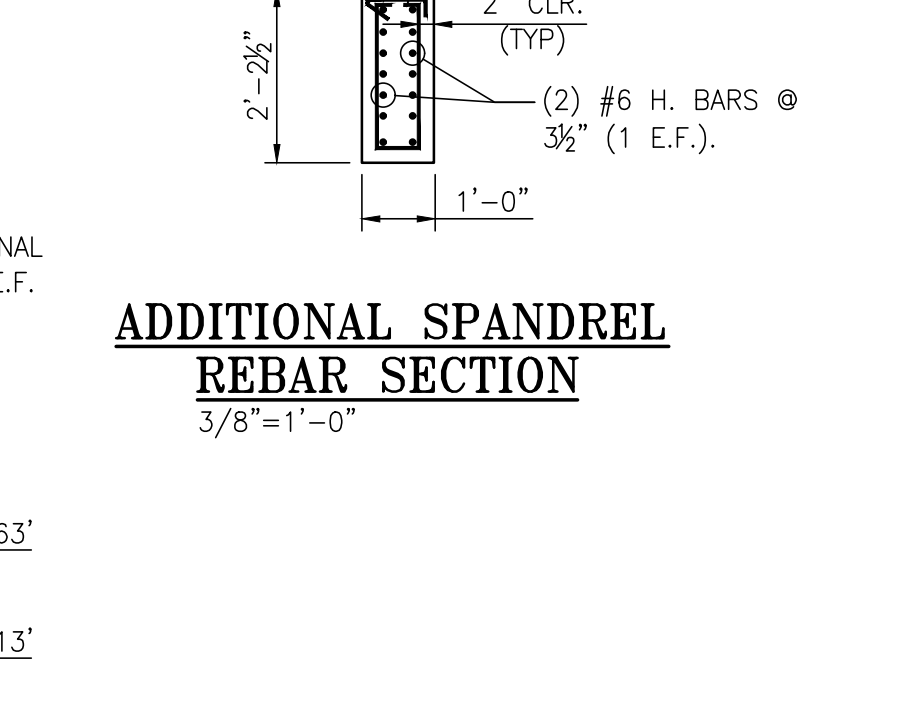
NOTE: REBAR OMITTED IN SECTION-B  
**SECTION B**  
C14/C14  
3/8"=1'-0"



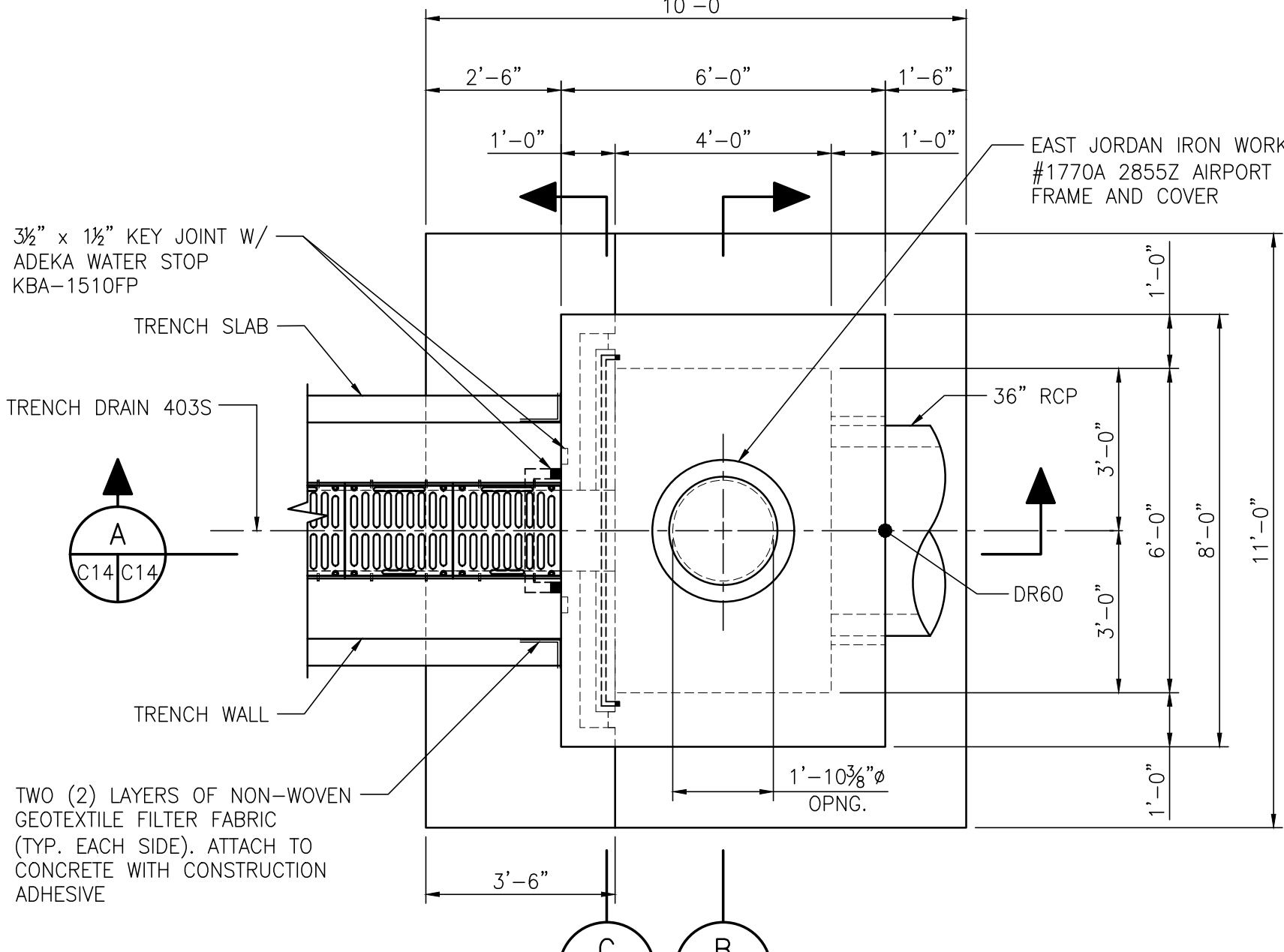
NOTE: REBAR OMITTED IN SECTION-C  
**SECTION C**  
C14/C14  
3/8"=1'-0"



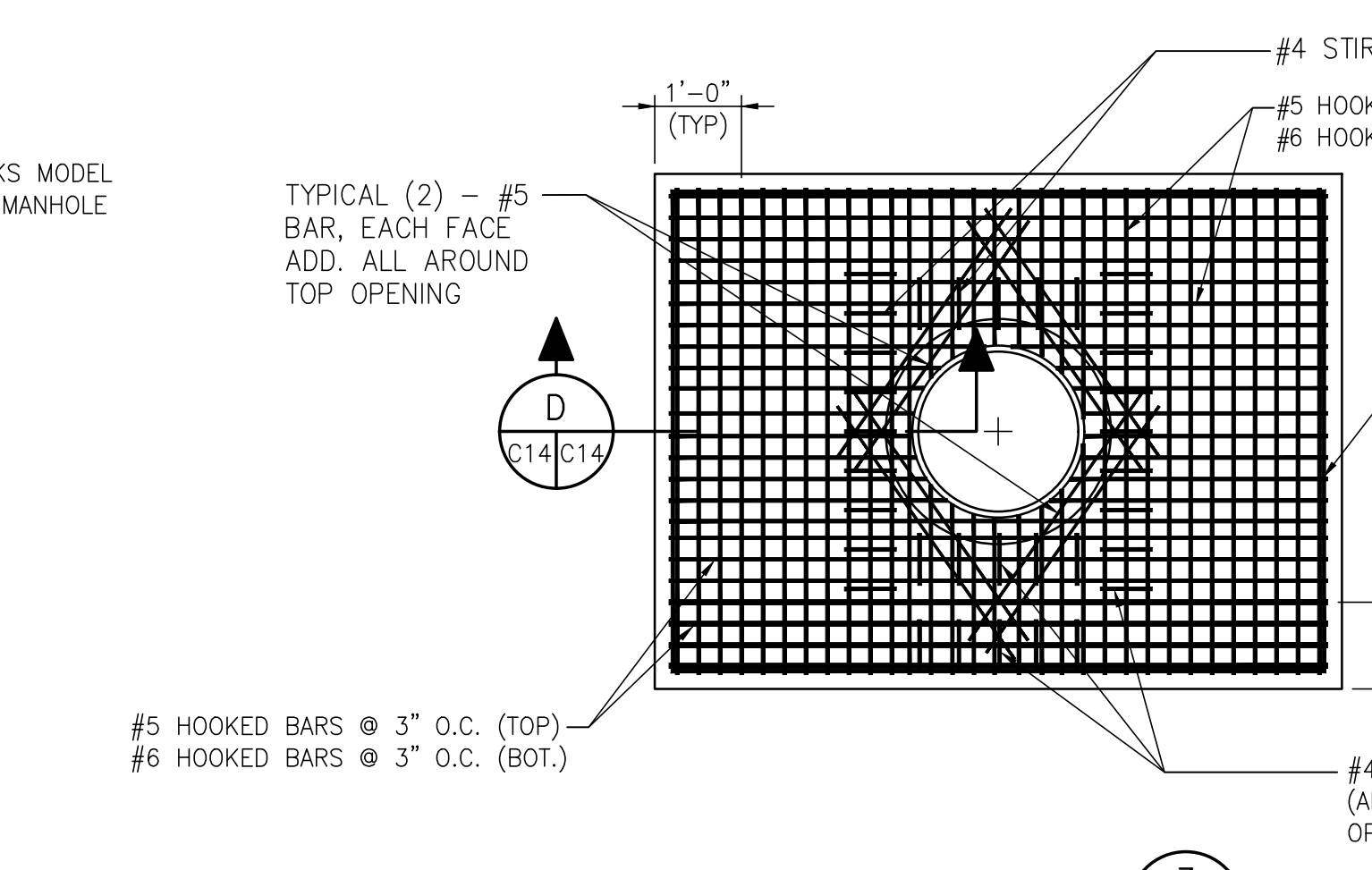
**ADDITIONAL SPANDREL REBAR DETAIL**  
C14/C14  
3/8"=1'-0"



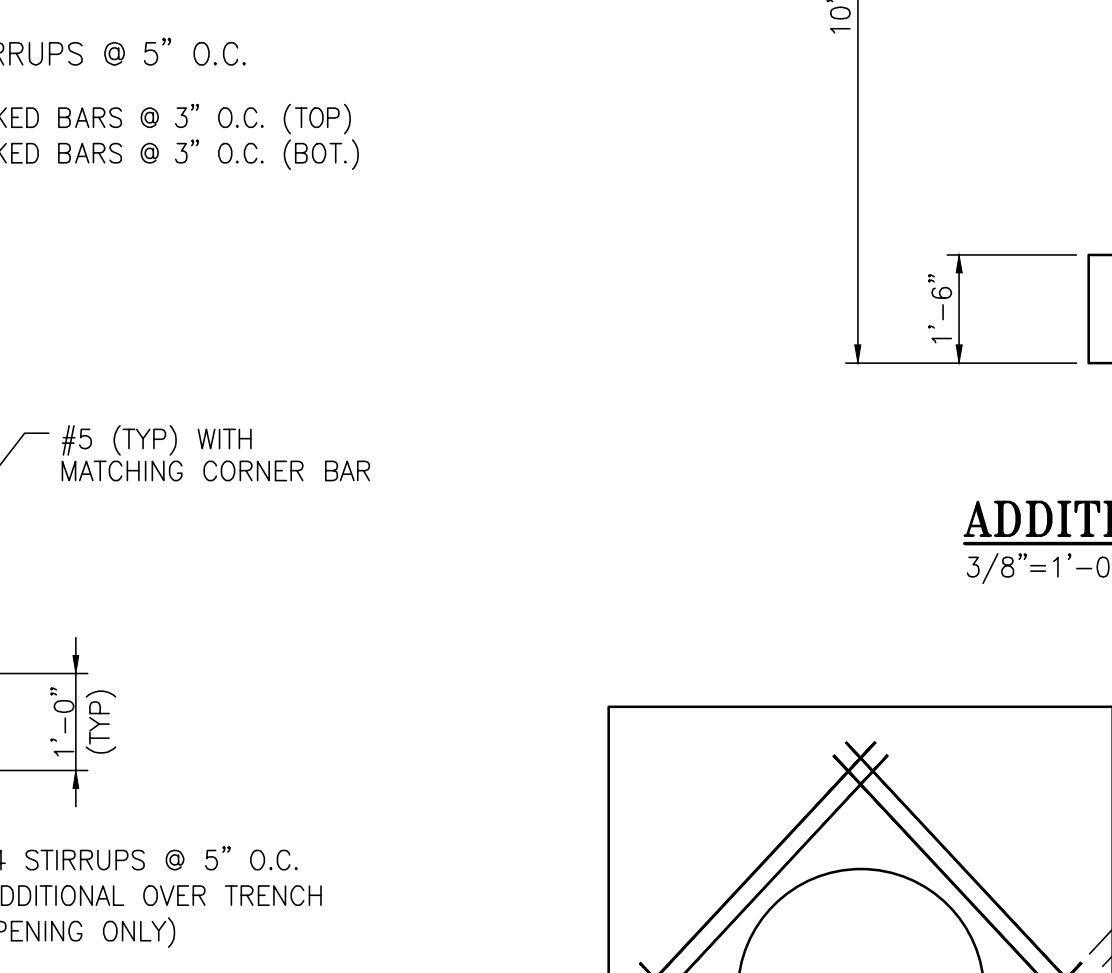
**ADDITIONAL SPANDREL REBAR SECTION**  
C14/C14  
3/8"=1'-0"



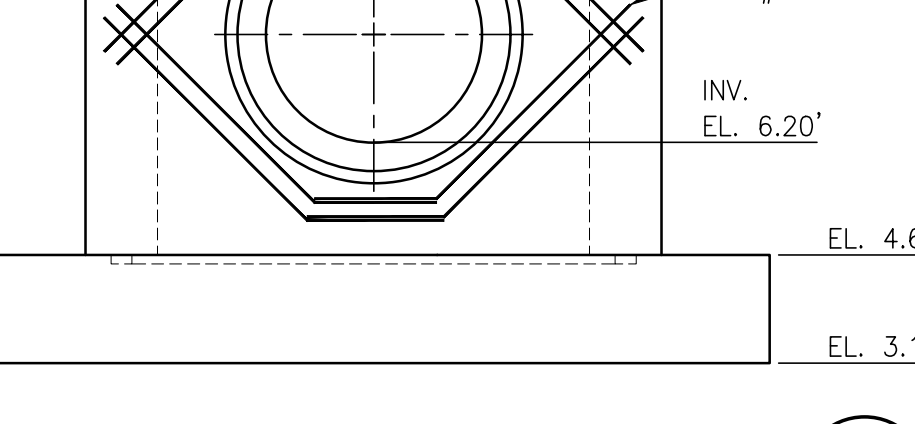
NOTE: EMBEDDED ANGLES FOR TOP EDGE PROTECTION AT JUNCTION BOX & TRENCH DRAIN OMITTED IN THIS DETAIL  
**JUNCTION BOX JB-8**  
C14/C14  
3/8"=1'-0"



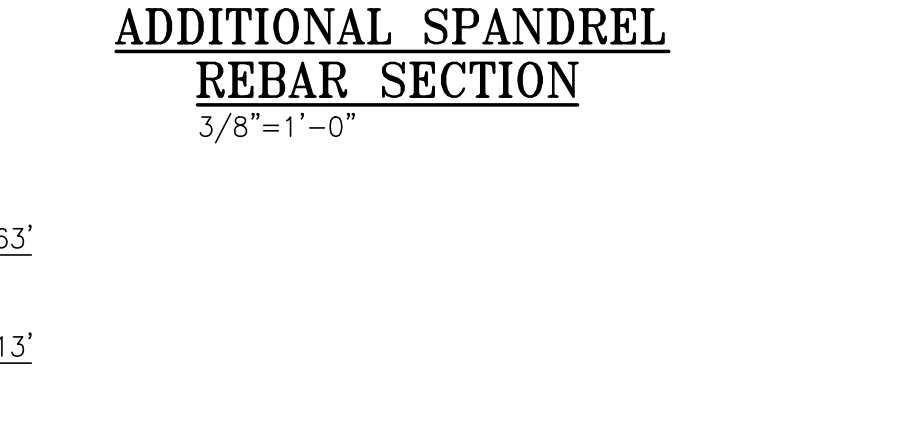
**TOP REBAR PLAN**  
C14/C14  
1/2"=1'-0"



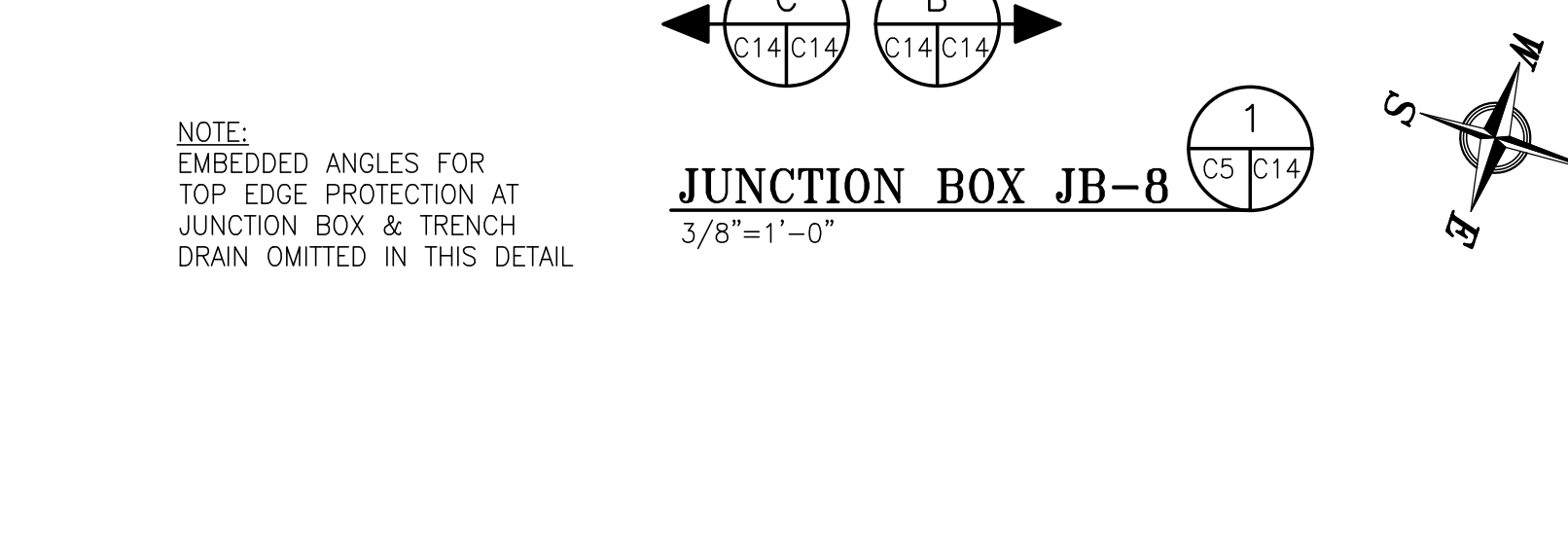
**ADDITIONAL REBAR AROUND WALL OPENINGS (TYP)**  
C14/C14  
NTS



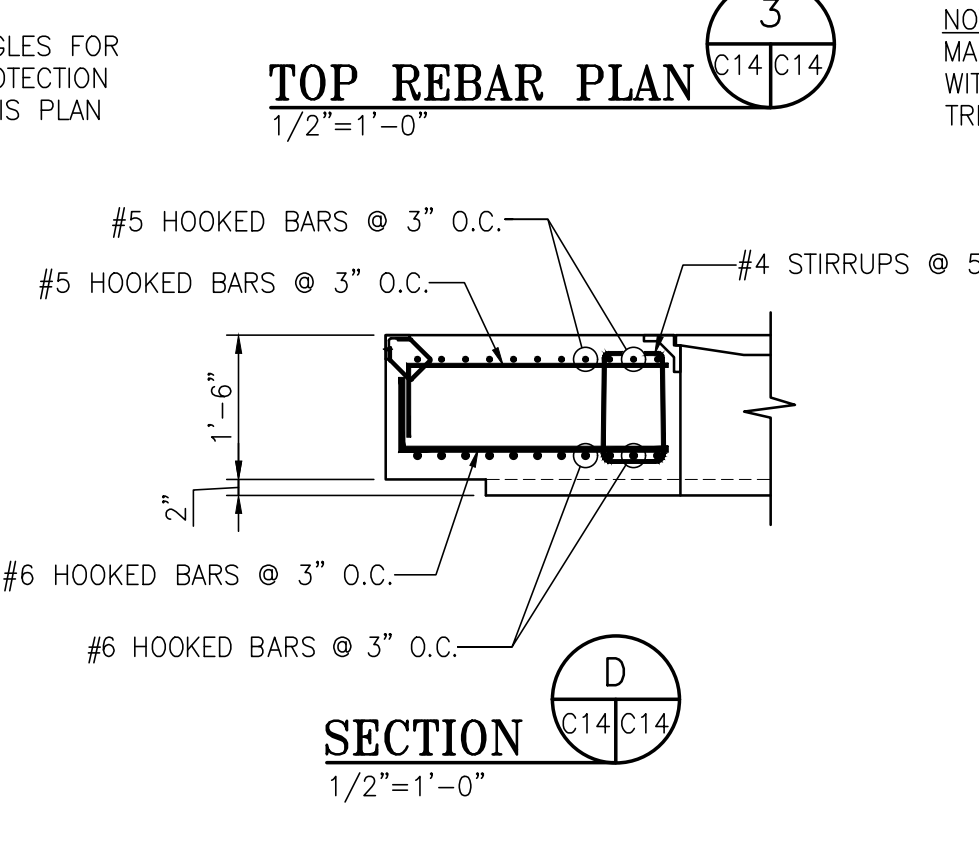
**ADDITIONAL SPANDREL REBAR DETAIL**  
C14/C14  
3/8"=1'-0"



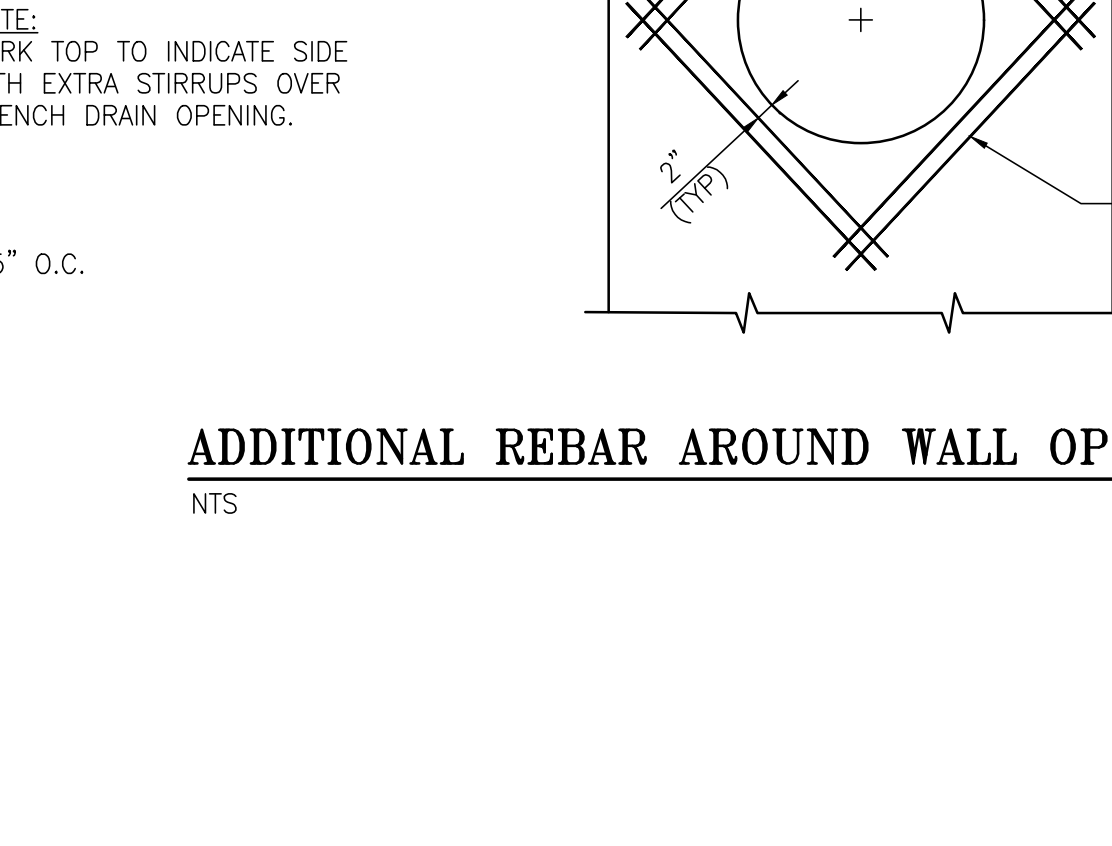
NOTE: EMBEDDED ANGLES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.  
**EMBEDDED ANGLE DETAIL**  
C14/C14  
3"=1'-0"



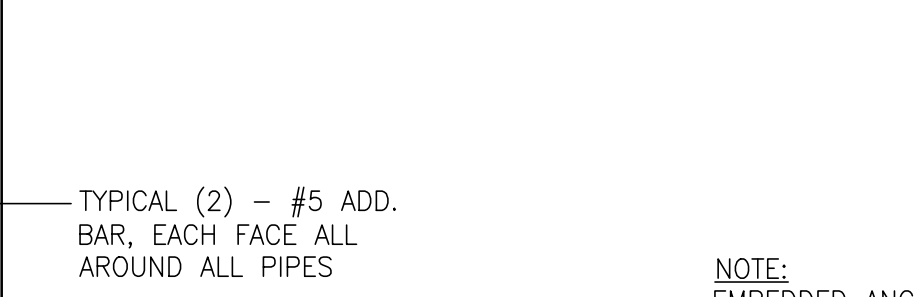
NOTE: EMBEDDED ANGLES FOR TOP EDGE PROTECTION AT JUNCTION BOX & TRENCH DRAIN OMITTED IN THIS DETAIL  
**SECTION A**  
C5/C14  
3/8"=1'-0"



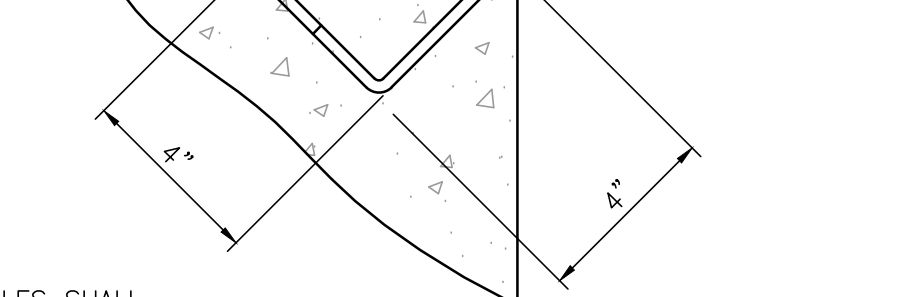
**SECTION B**  
C14/C14  
1/2"=1'-0"



**ADDITIONAL REBAR AROUND WALL OPENINGS (TYP)**  
C14/C14  
NTS



**ADDITIONAL SPANDREL REBAR DETAIL**  
C14/C14  
3/8"=1'-0"



NOTE: EMBEDDED ANGLES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.  
**EMBEDDED ANGLE DETAIL**  
C14/C14  
3"=1'-0"

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	RST	MED	RSG
REFERENCE DRAWINGS					

**APTIM**  
PORT SERVICES, LLC

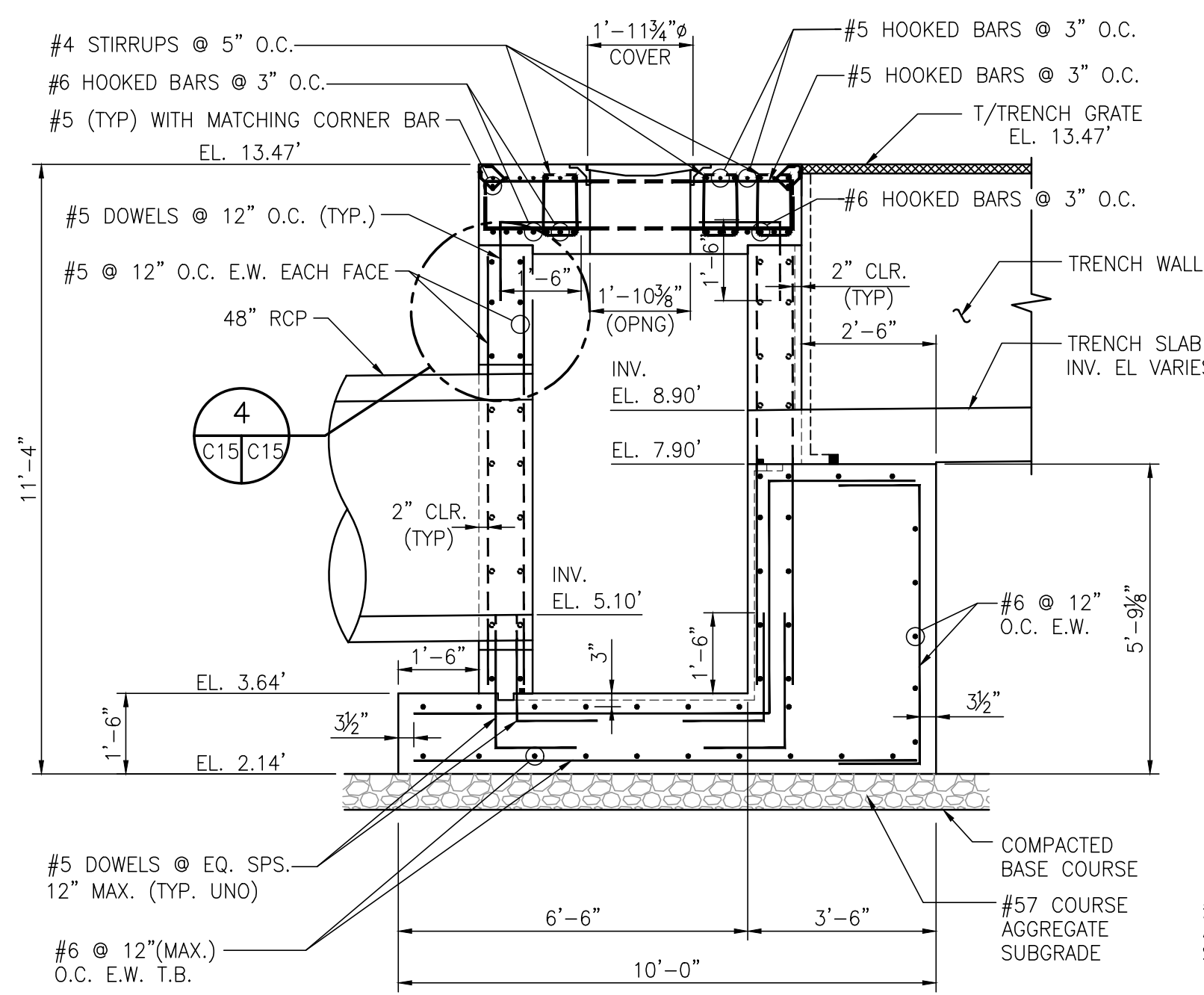
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FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4484    DWG NO: C14    REV: A

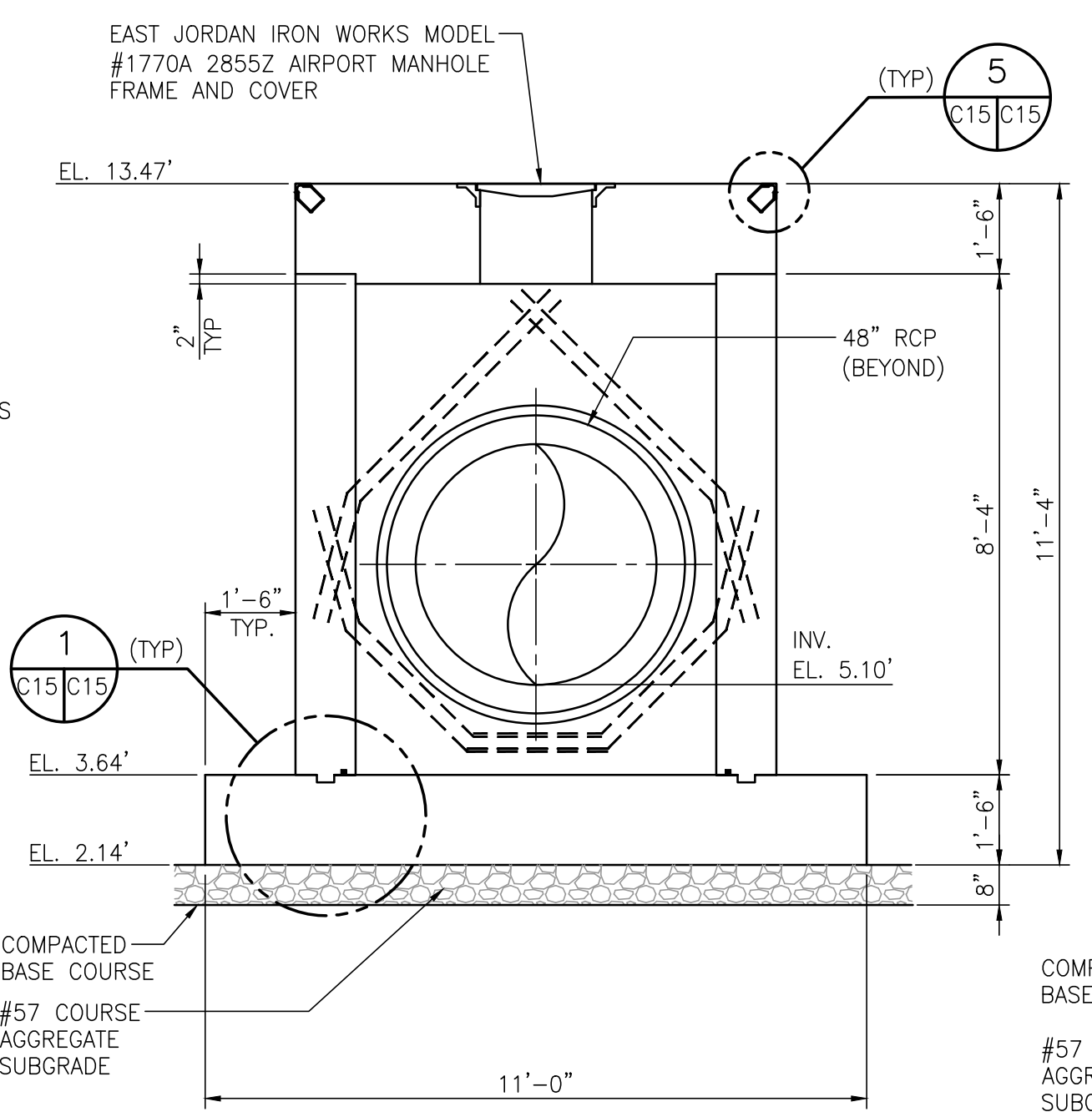
**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1    ASPA DWG NO:

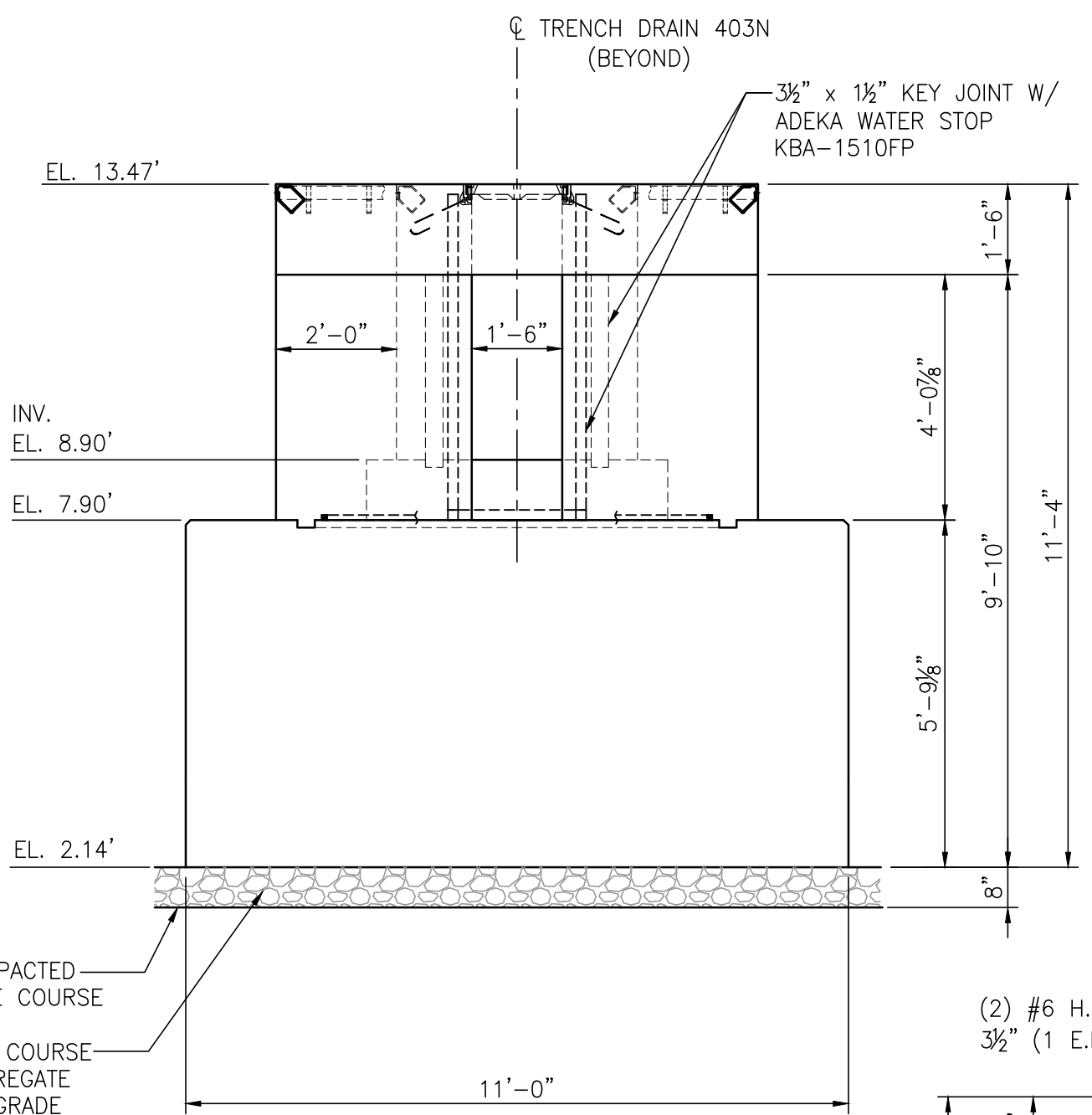
APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-8" DETAILS



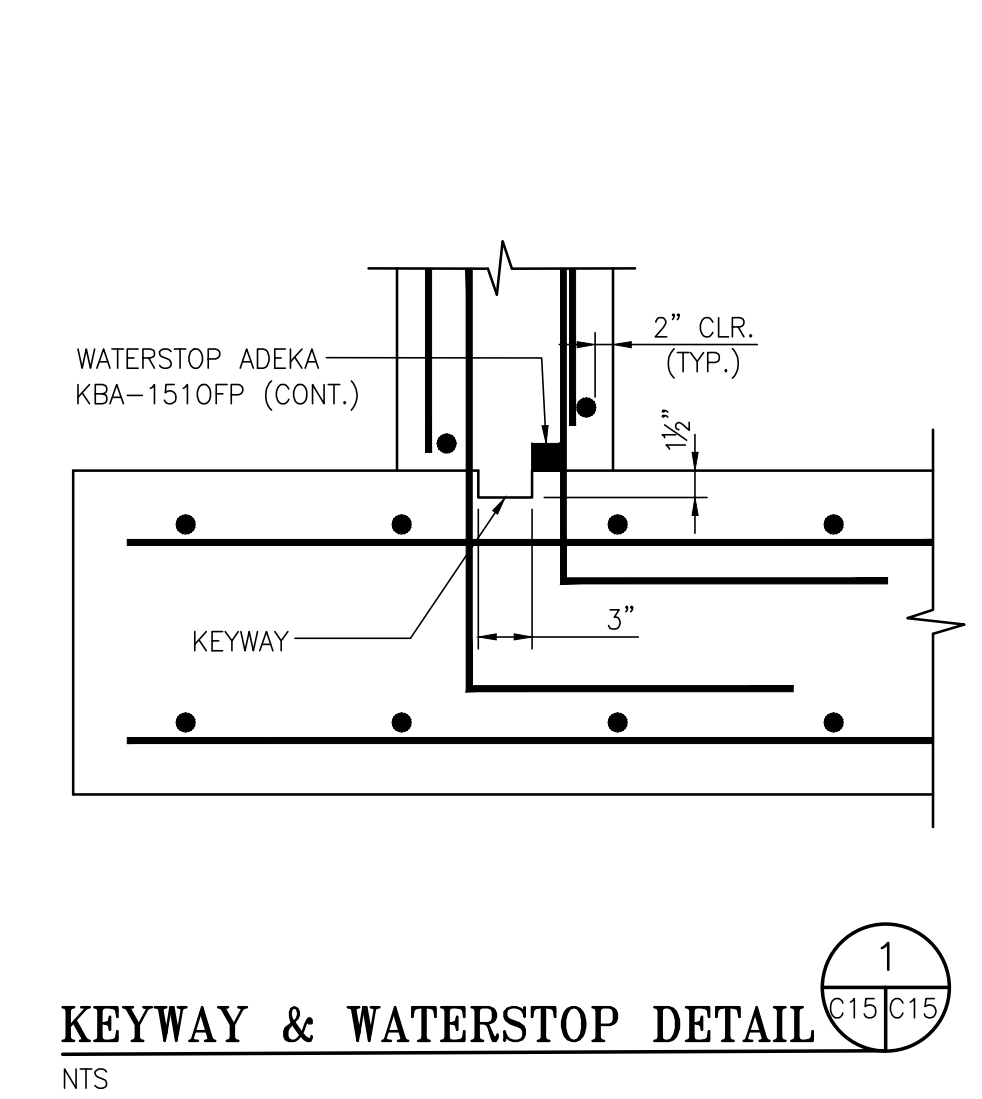
**SECTION A**  
3/8"=1'-0"



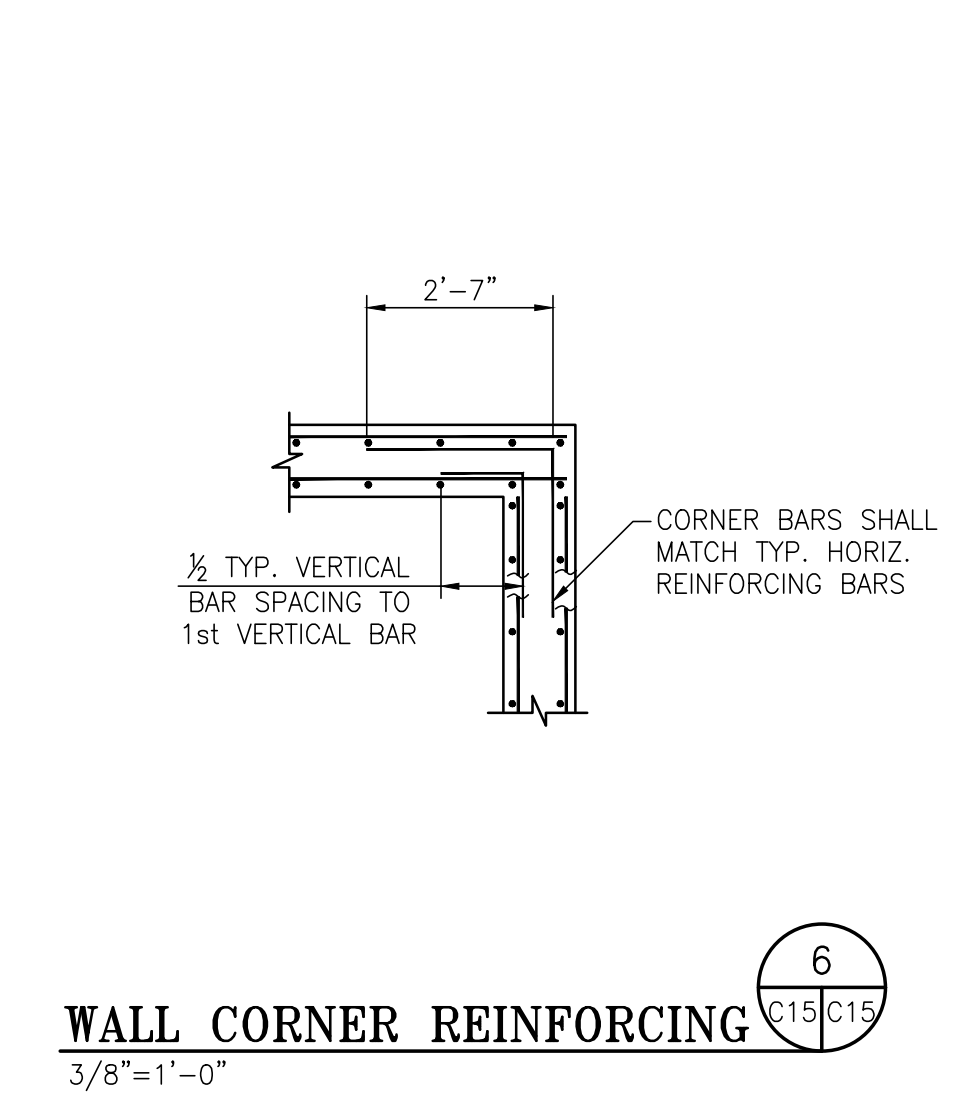
**SECTION B**  
3/8"=1'-0"



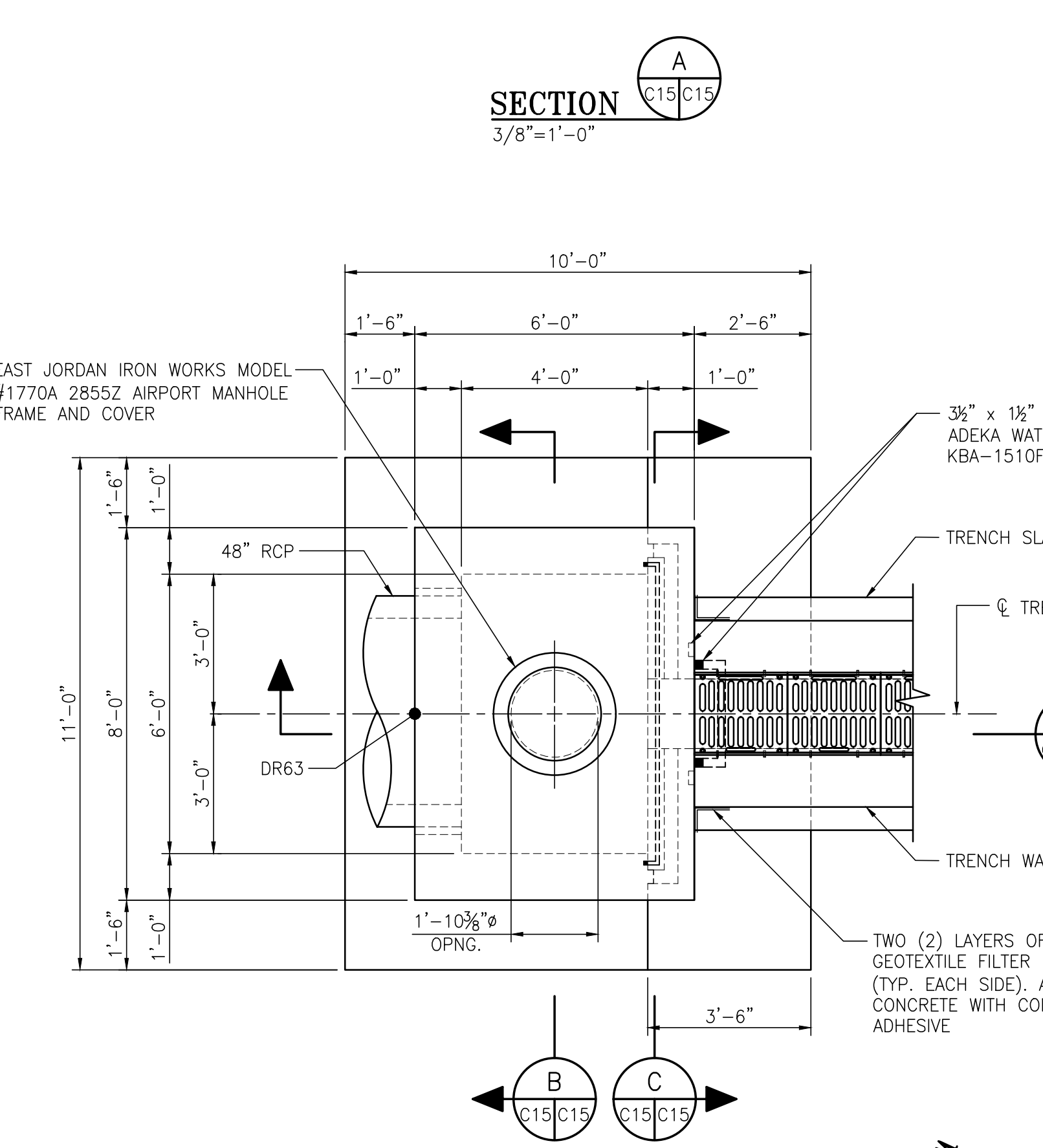
**SECTION C**  
3/8"=1'-0"



**KEYWAY & WATERSTOP DETAIL**  
NTS

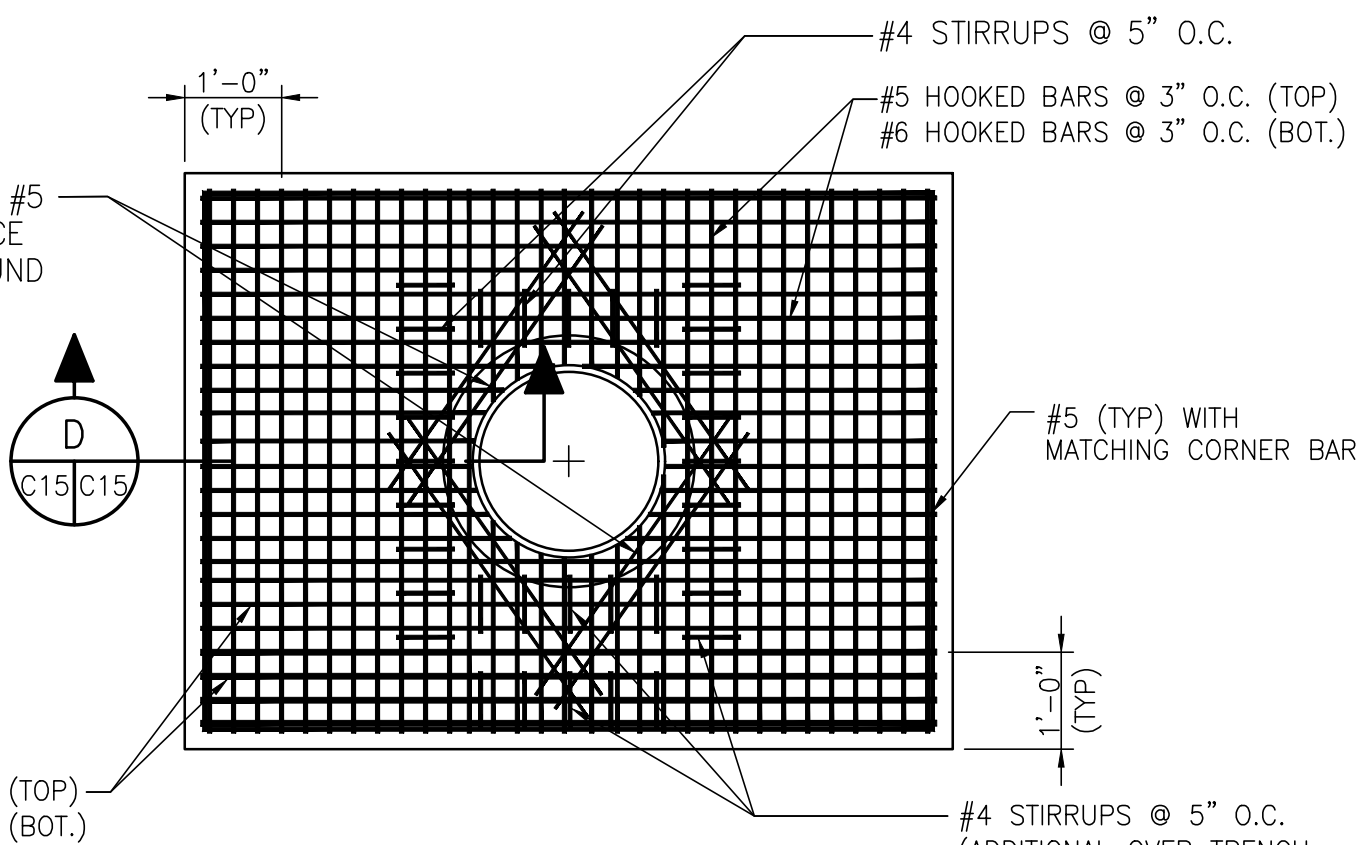
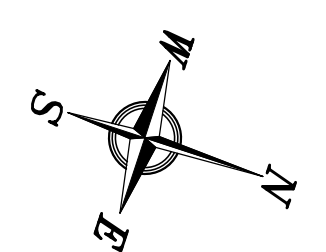


**WALL CORNER REINFORCING**  
3/8"=1'-0"



**JUNCTION BOX JB-12**  
3/8"=1'-0"

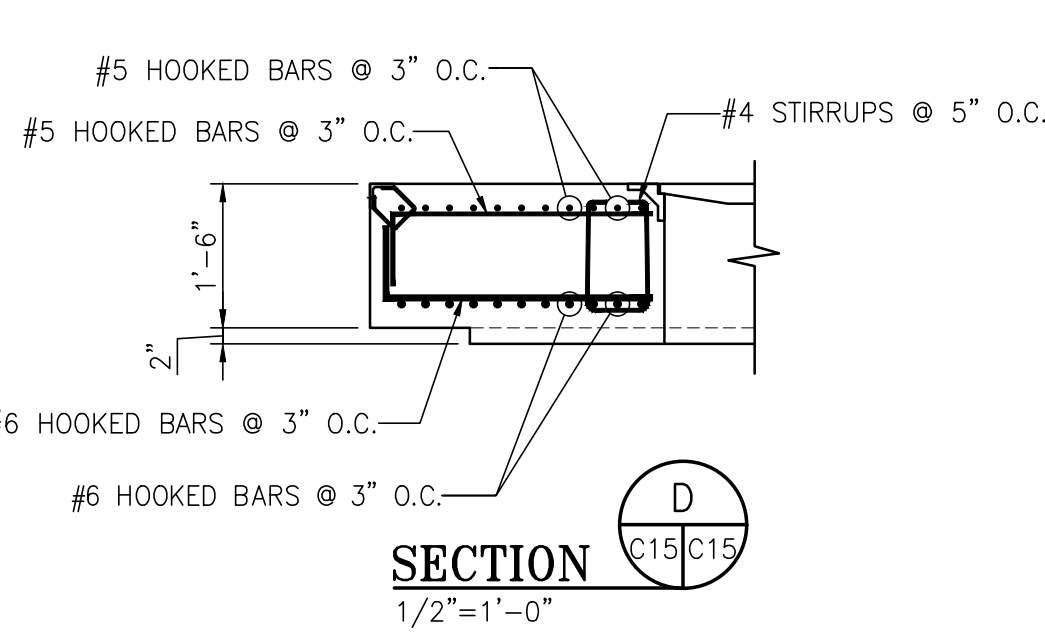
NOTE:  
EMBEDDED ANGLES FOR  
TOP EDGE PROTECTION AT  
JUNCTION BOX & TRENCH  
DRAIN OMITTED IN THIS DETAIL



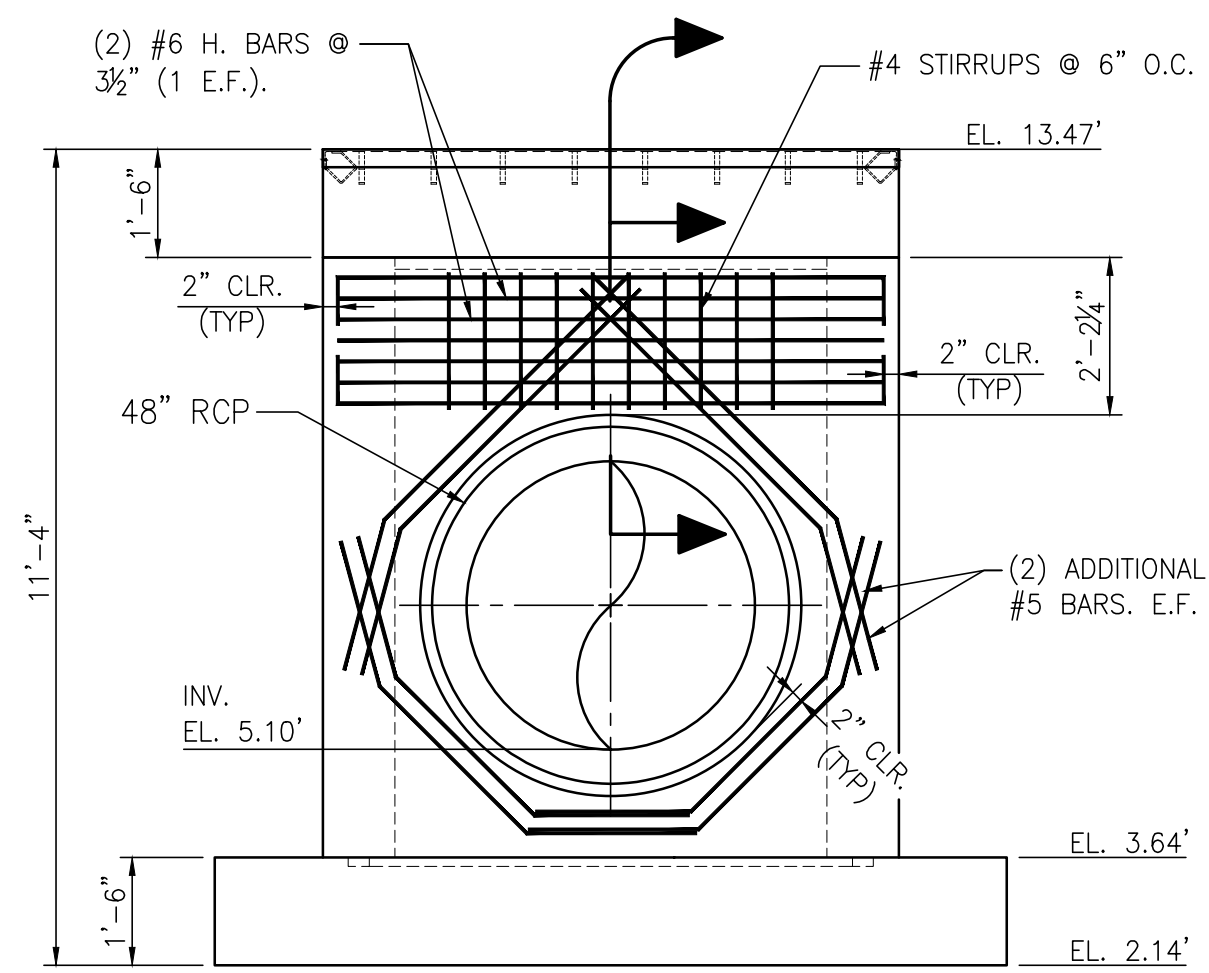
**TOP REBAR PLAN**  
1/2"=1'-0"

NOTE:  
EMBEDDED ANGLES FOR  
TOP EDGE PROTECTION  
OMITTED IN THIS PLAN

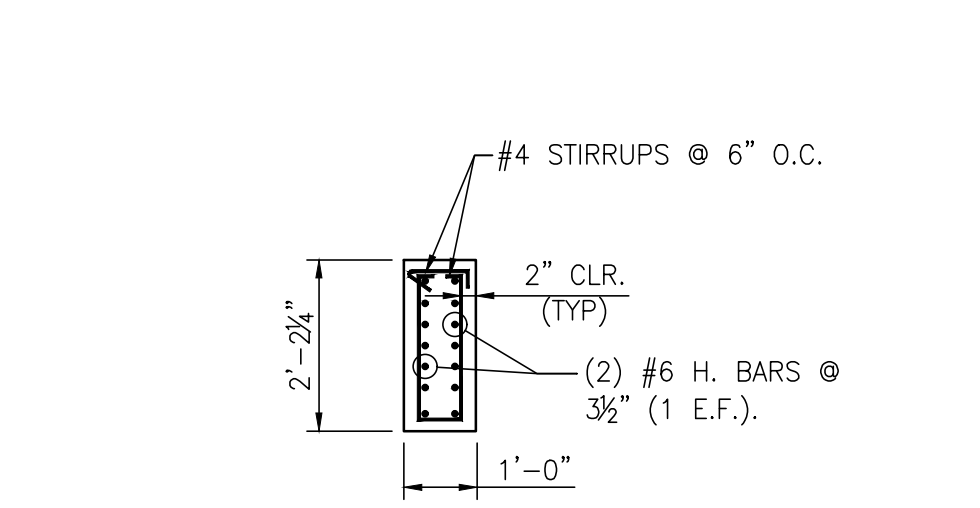
NOTE:  
MARK TOP TO INDICATE SIDE  
WITH EXTRA STIRRUPS OVER  
TRENCH DRAIN OPENING.



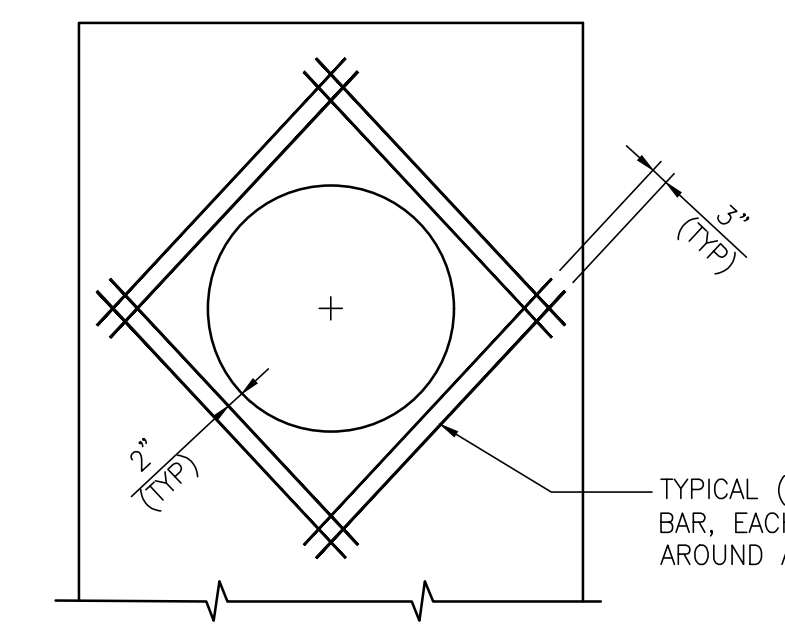
**SECTION 3**  
1/2"=1'-0"



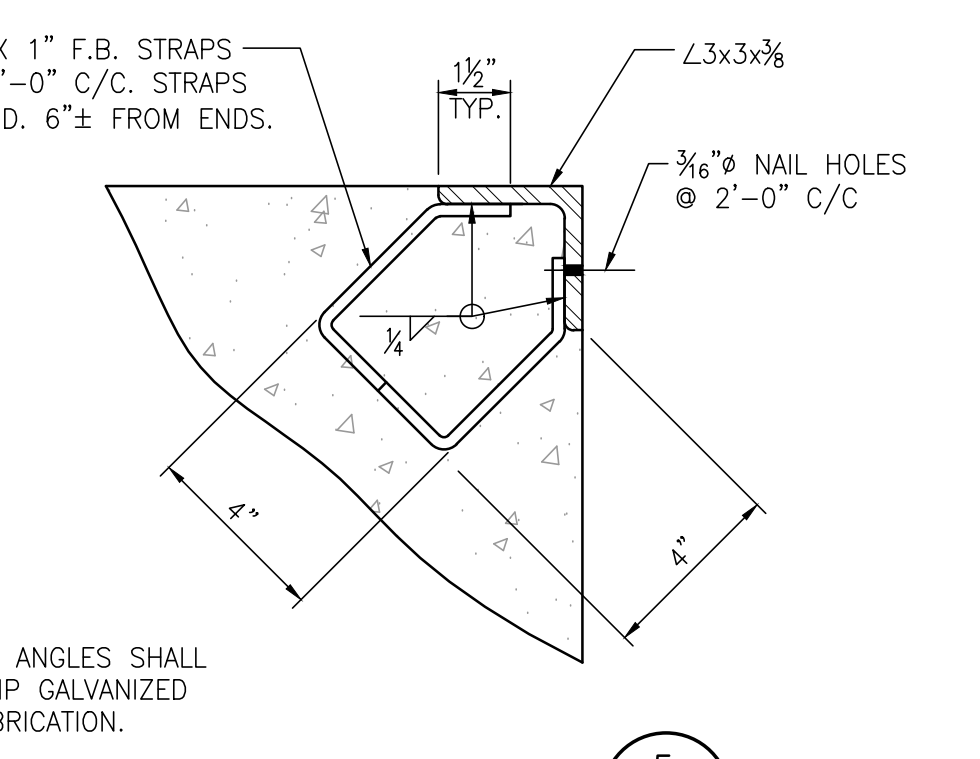
**ADDITIONAL SPANDREL REBAR DETAIL**  
3/8"=1'-0"



**ADDITIONAL SPANDREL REBAR SECTION**  
3/8"=1'-0"



**ADDITIONAL REBAR AROUND WALL OPENINGS (TYP)**  
NTS



**EMBEDDED ANGLE DETAIL**  
3"=1'-0"

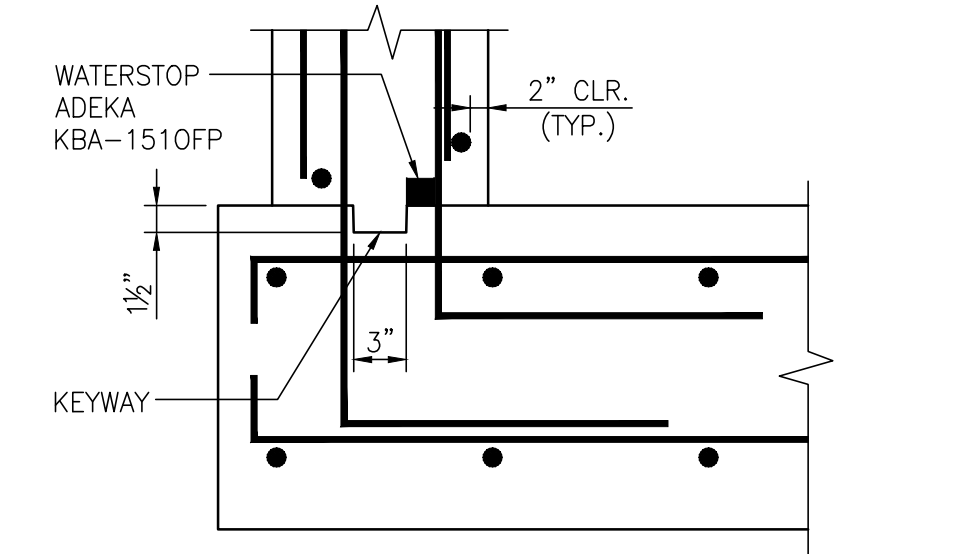
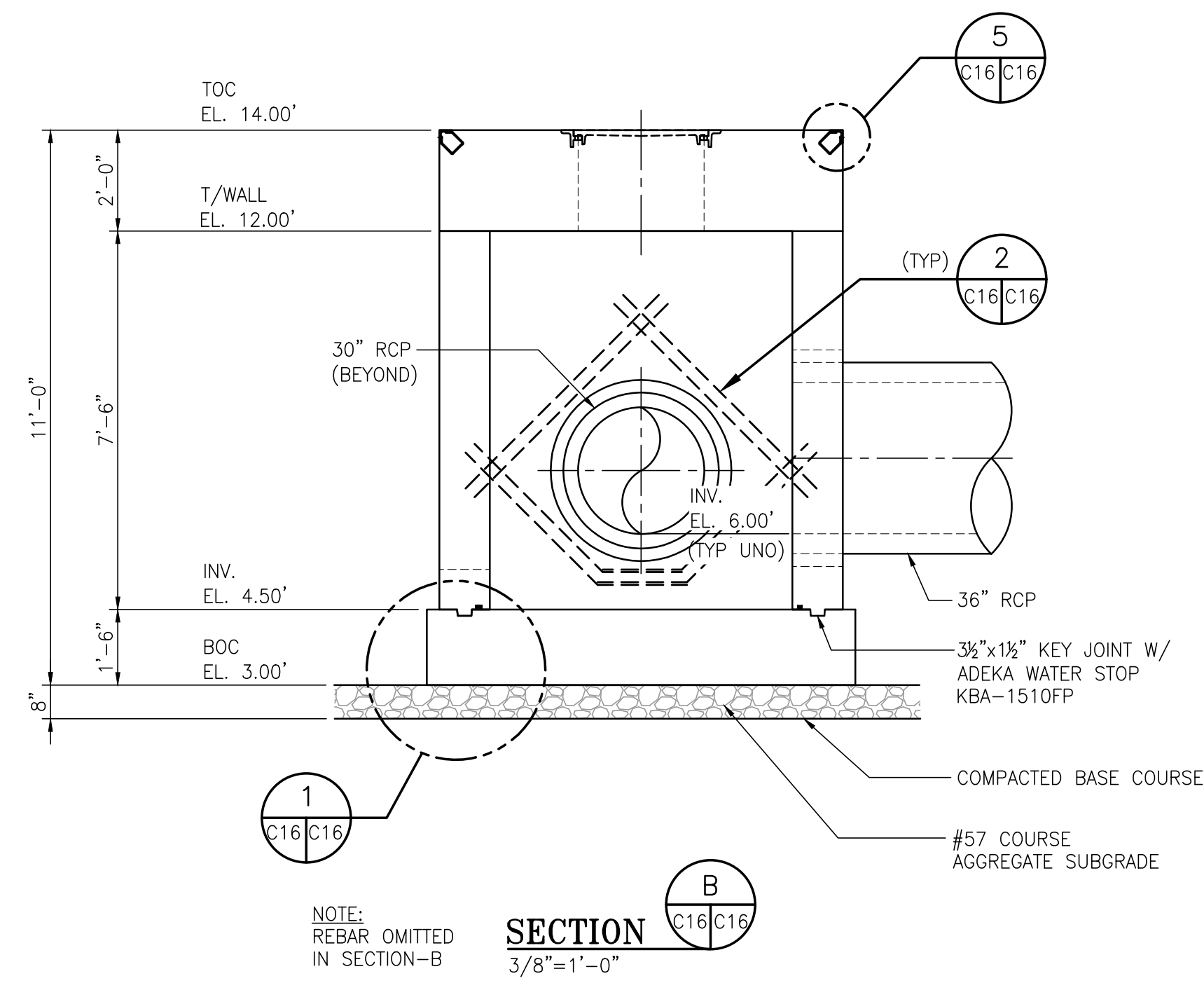
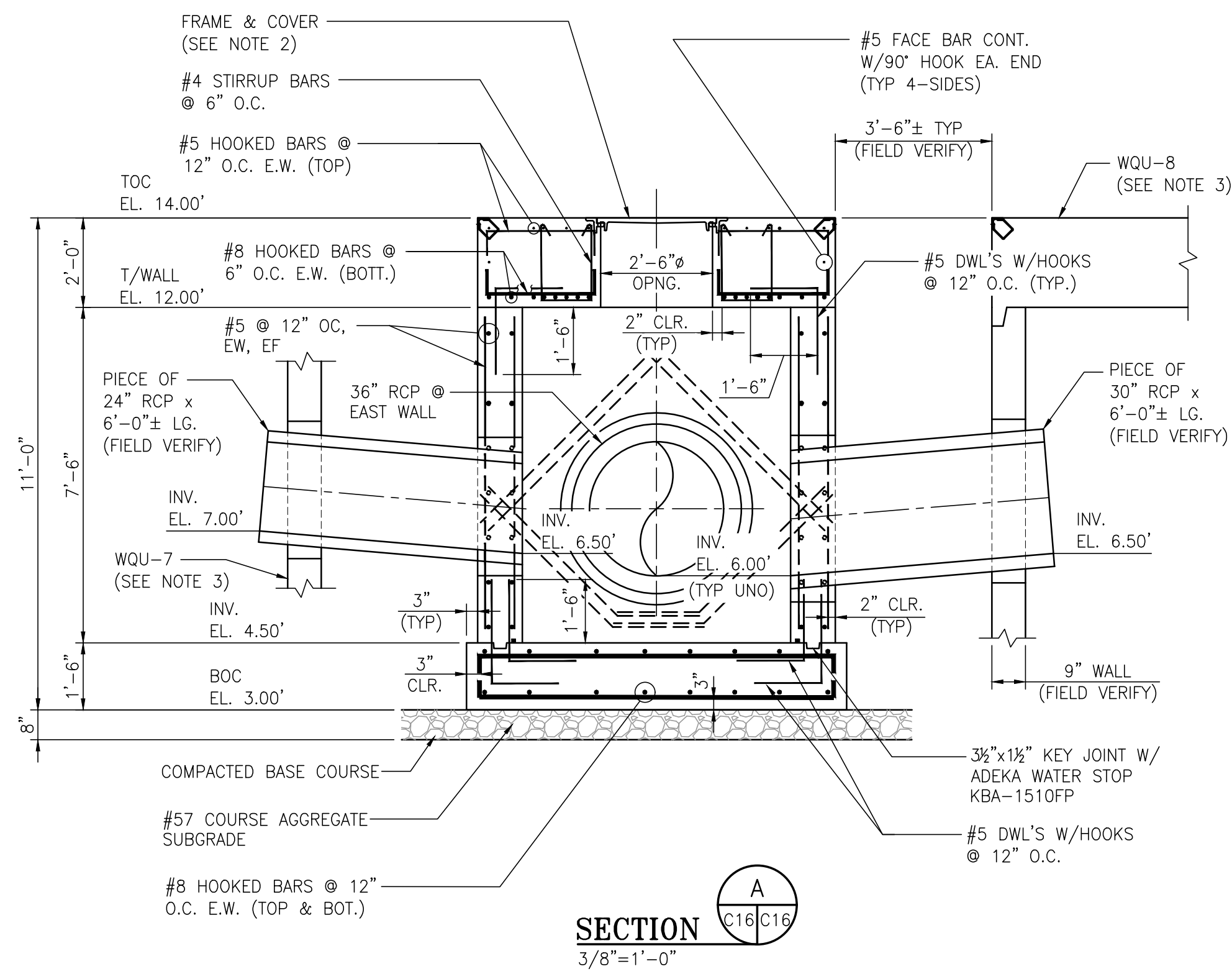
NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

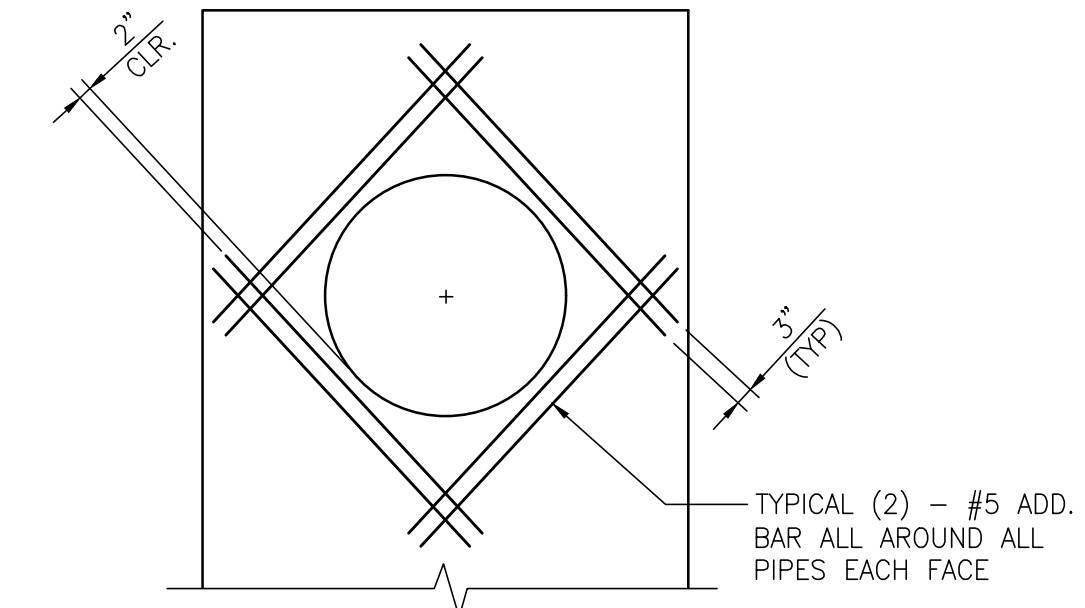
NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	04/05/24	RST	MED	RSG

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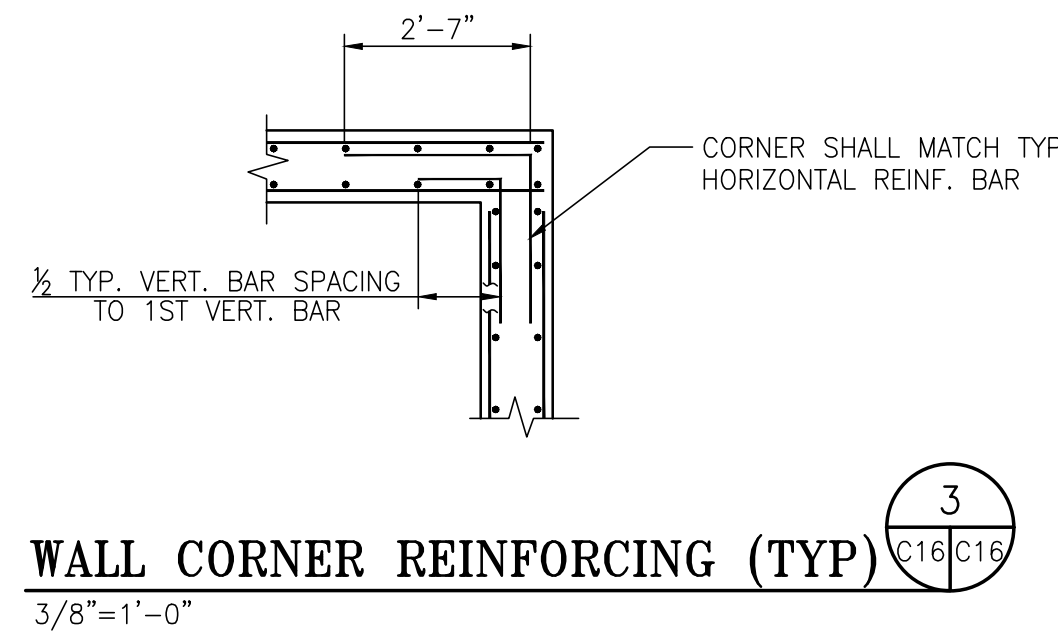
ALABAMA PORT AUTHORITY  
PORT OF MOBILE  
ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:  
APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-9" DETAILS  
FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4484  
DWG NO: C15  
REV: A



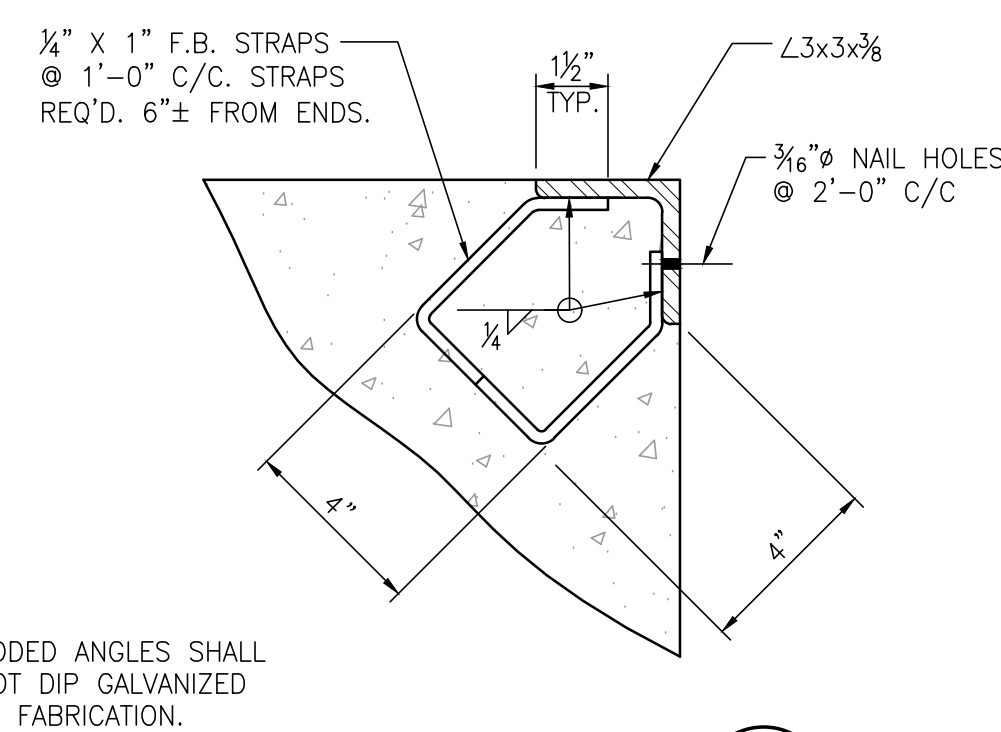
**KEYWAY & WATERSTOP DETAIL**  
N.T.S.



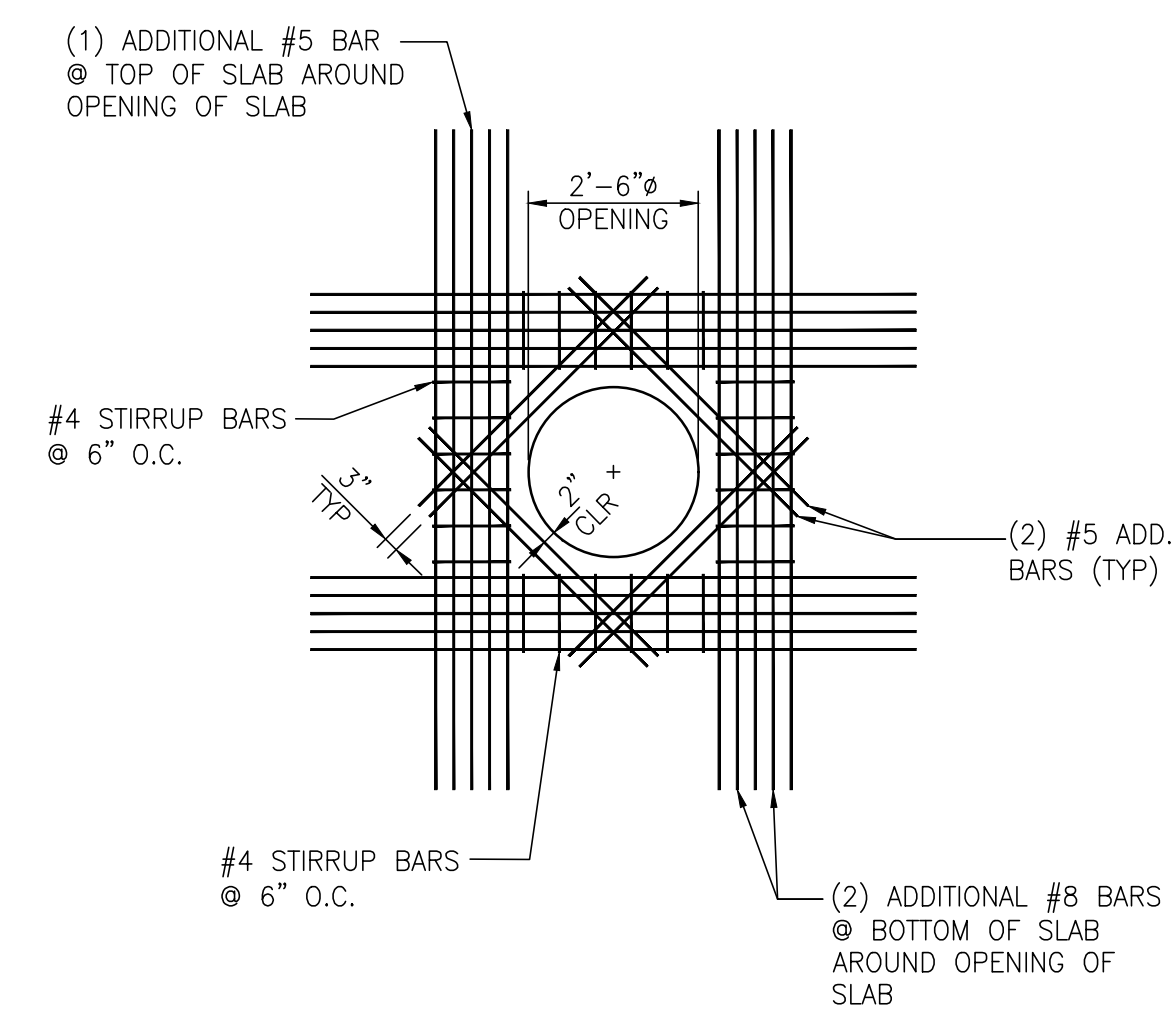
**ADD. REBAR AROUND WALL OPENINGS (TYP)**  
N.T.S.



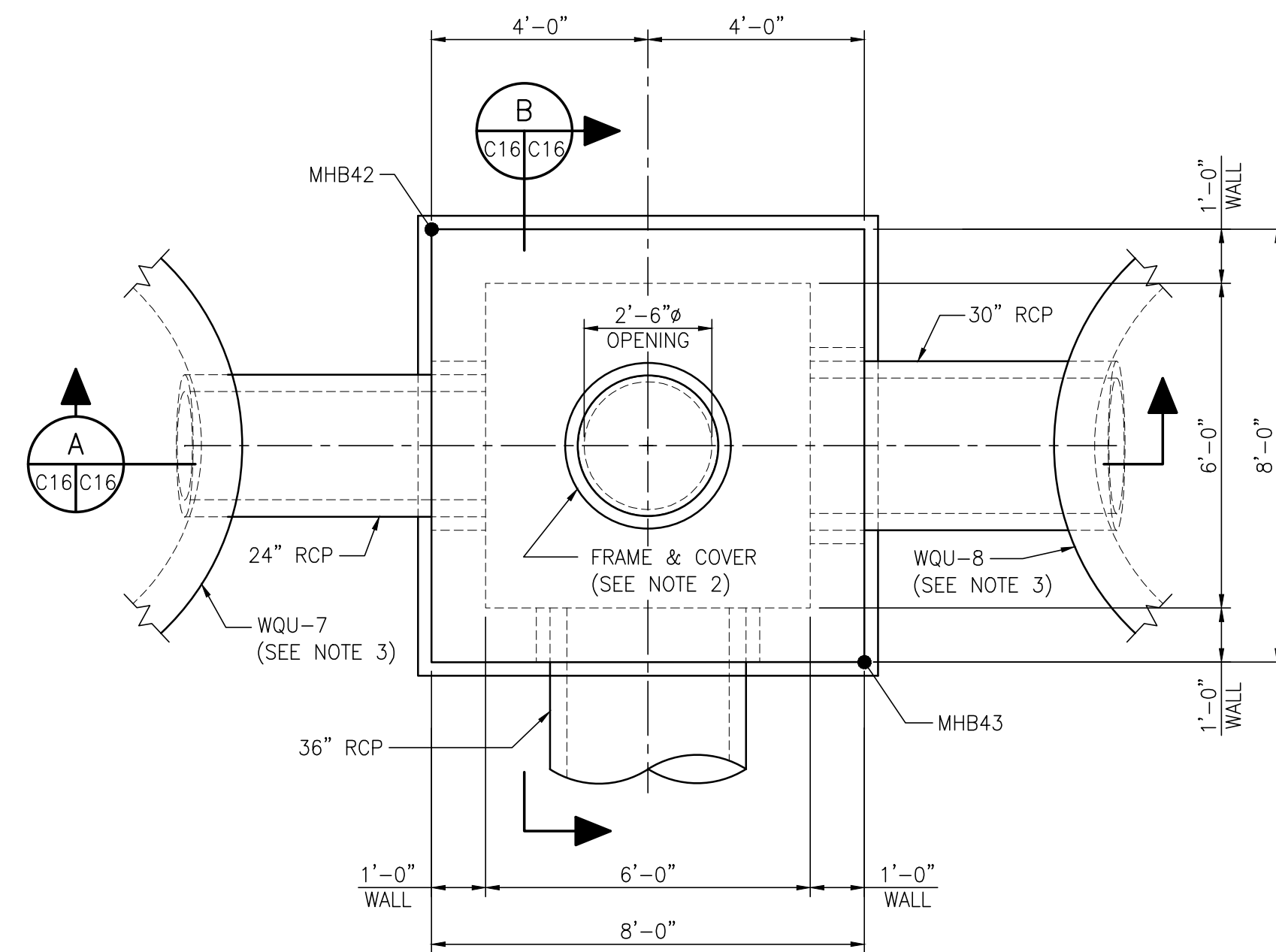
**WALL CORNER REINFORCING (TYP)**  
3/8"=1'-0"



**EMBEDDED ANGLE DETAIL**  
3"=1'-0"

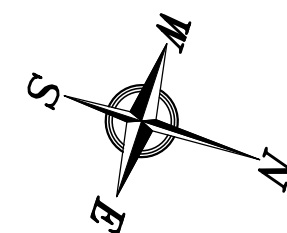


**ADD. REBAR AROUND TOP OPENING**  
3/8"=1'-0"



**JUNCTION BOX "JB-10"**  
3/8"=1'-0"

NOTE:  
EMBEDDED ANGLES FOR  
TOP EDGE PROTECTION  
OMITTED IN THIS DETAIL



NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS MODEL #1810A2VH V1600-4 AIRPORT RATED MANHOLE FRAME & COVER CAPACITY = 200+ KIPS
- SEE DRAWING C26 FOR STANDARD WATER QUALITY UNIT DETAIL & NOTES. REFER TO VENDOR SUPPLIED SHOP DRAWINGS OF WATER QUALITY UNITS FOR DIMENSIONS & DETAILS DURING INSTALLATION.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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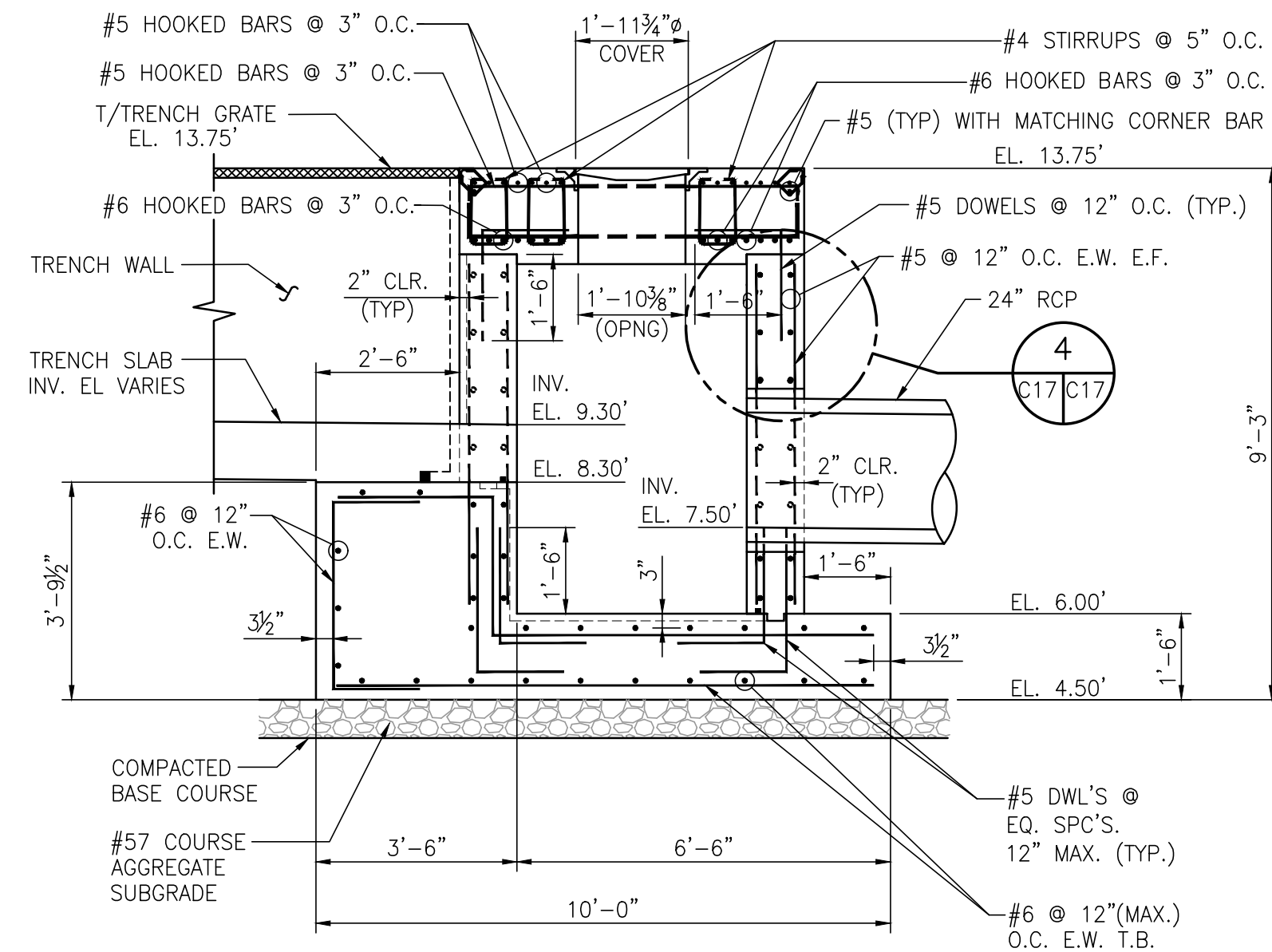
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

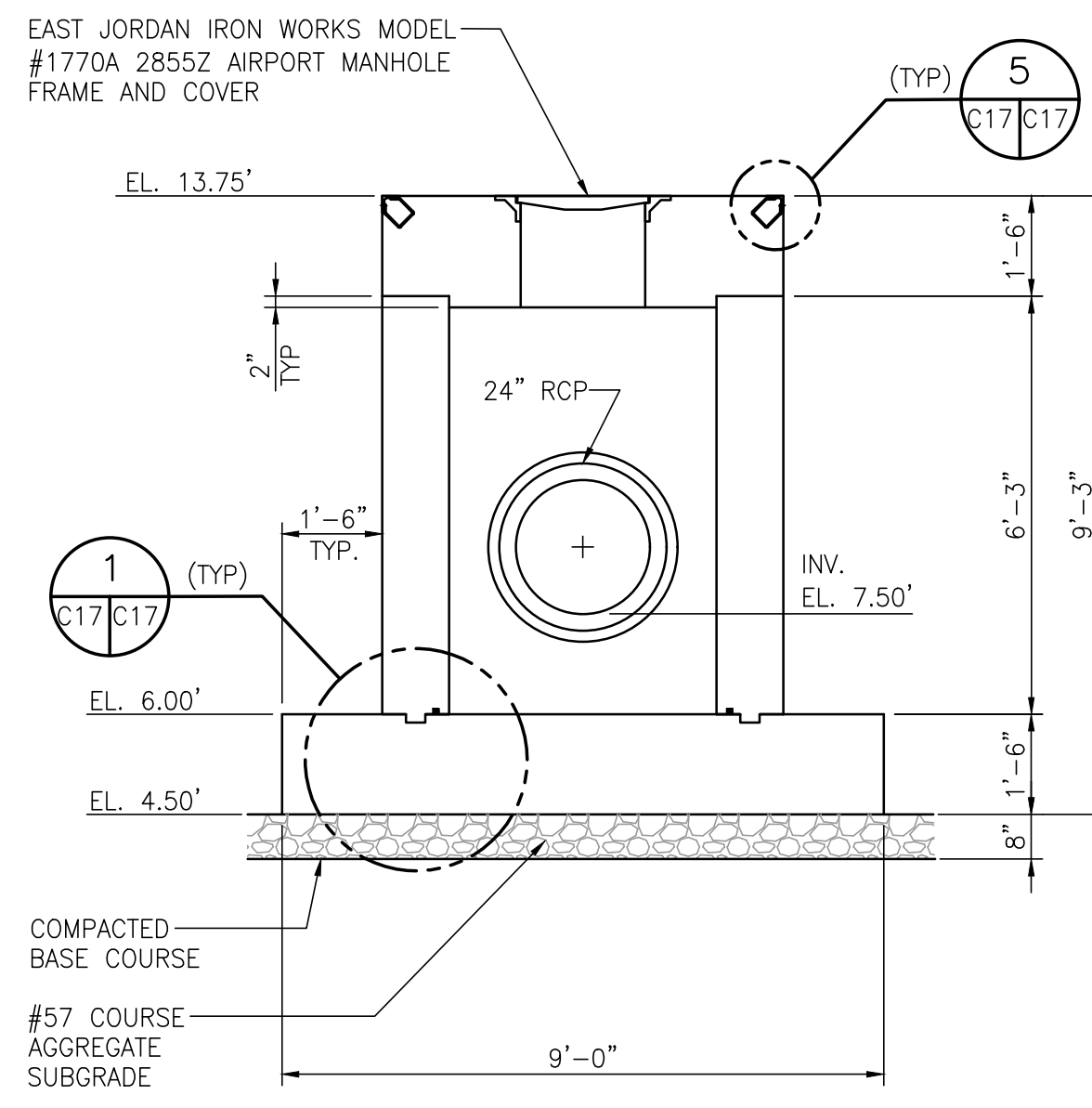
APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-10" DETAILS

FOR: ALABAMA PORT AUTHORITY

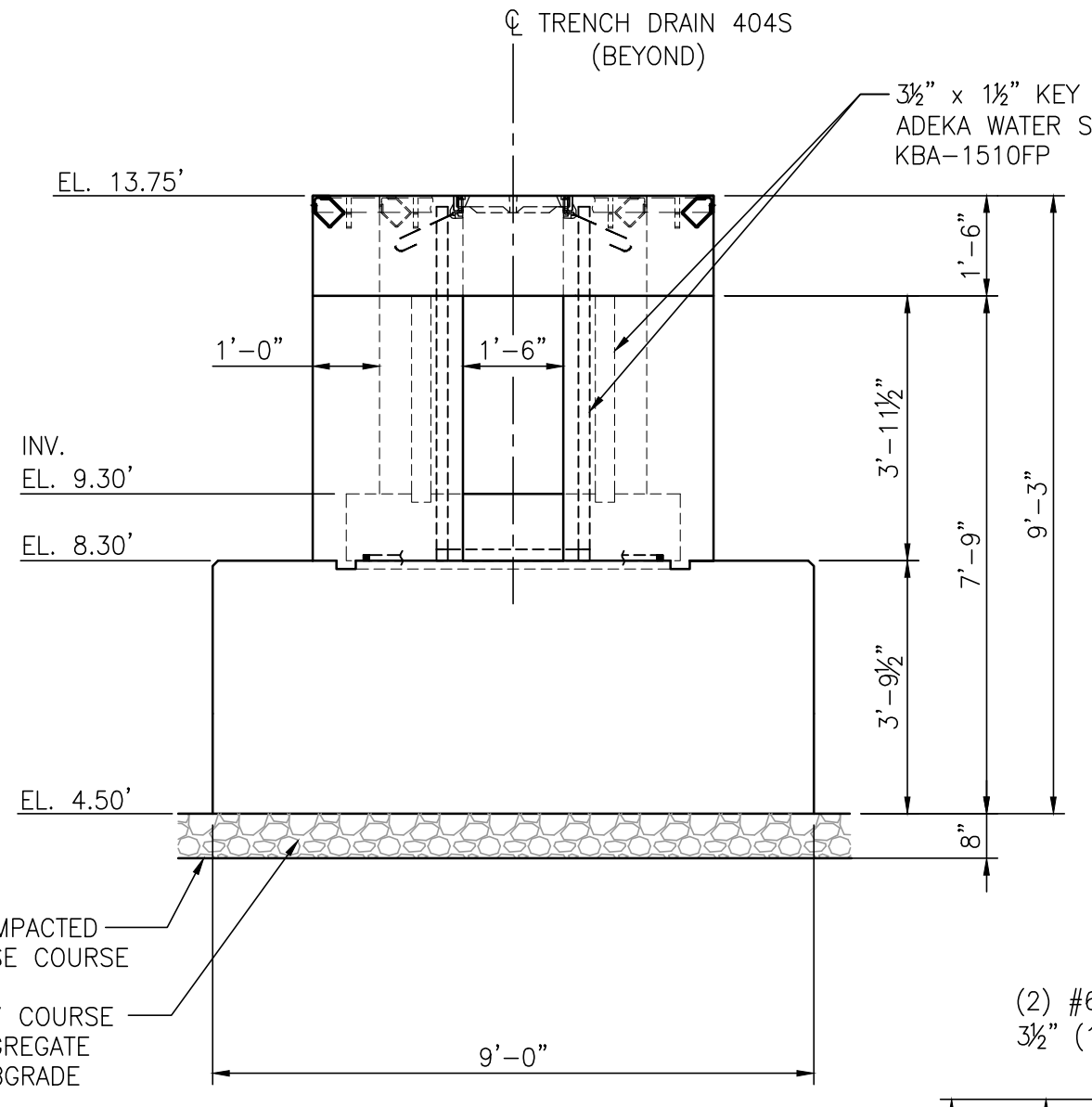
PROJECT NO: 4484 | DWG NO: C16 | REV: A



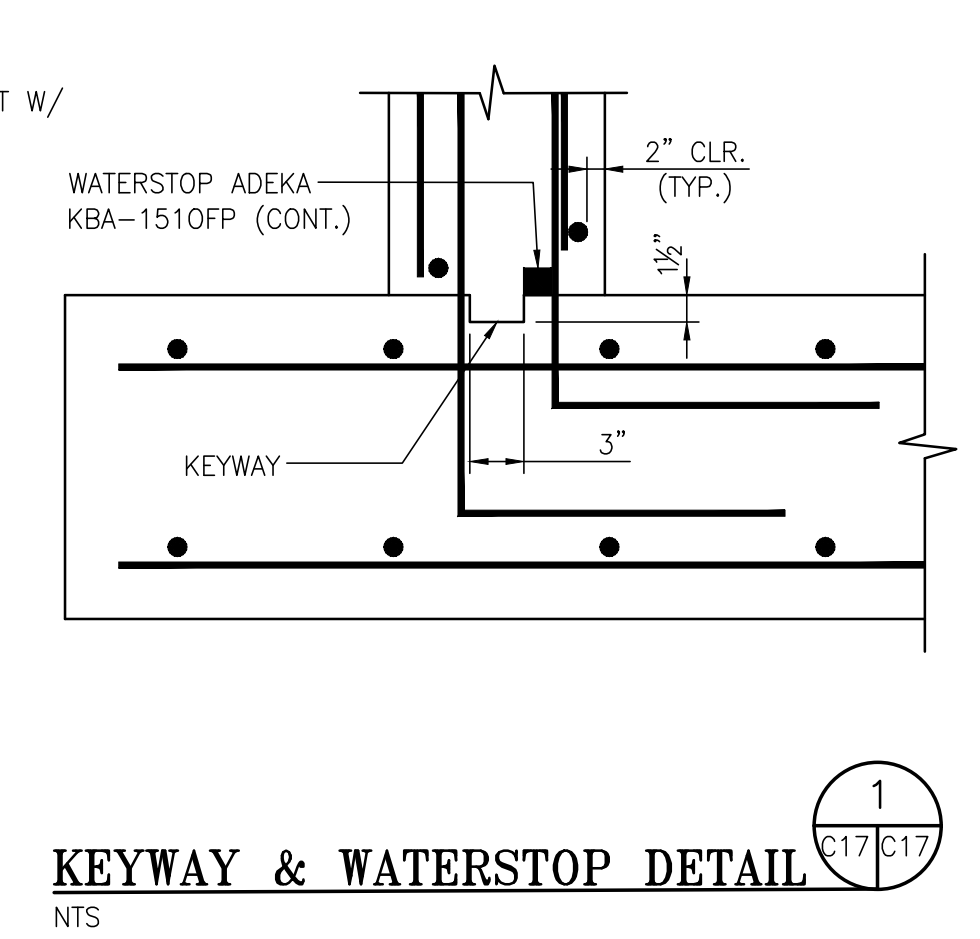
**SECTION A**  
3/8"=1'-0"



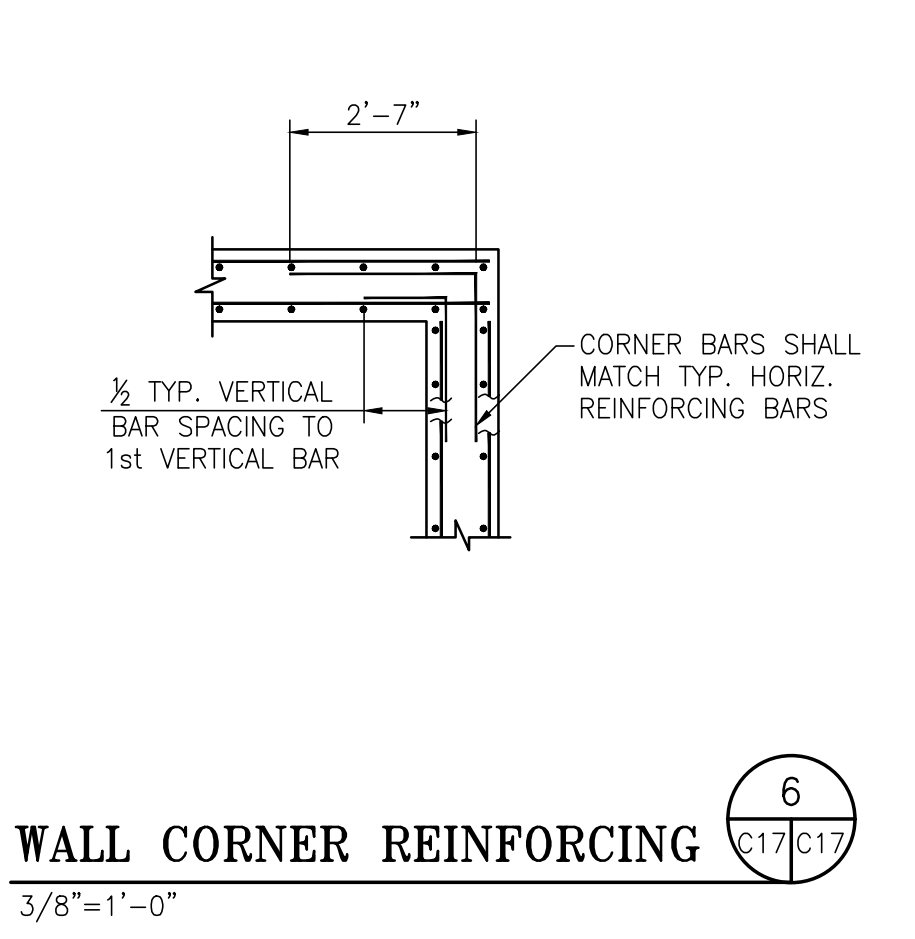
**SECTION B**  
3/8"=1'-0"



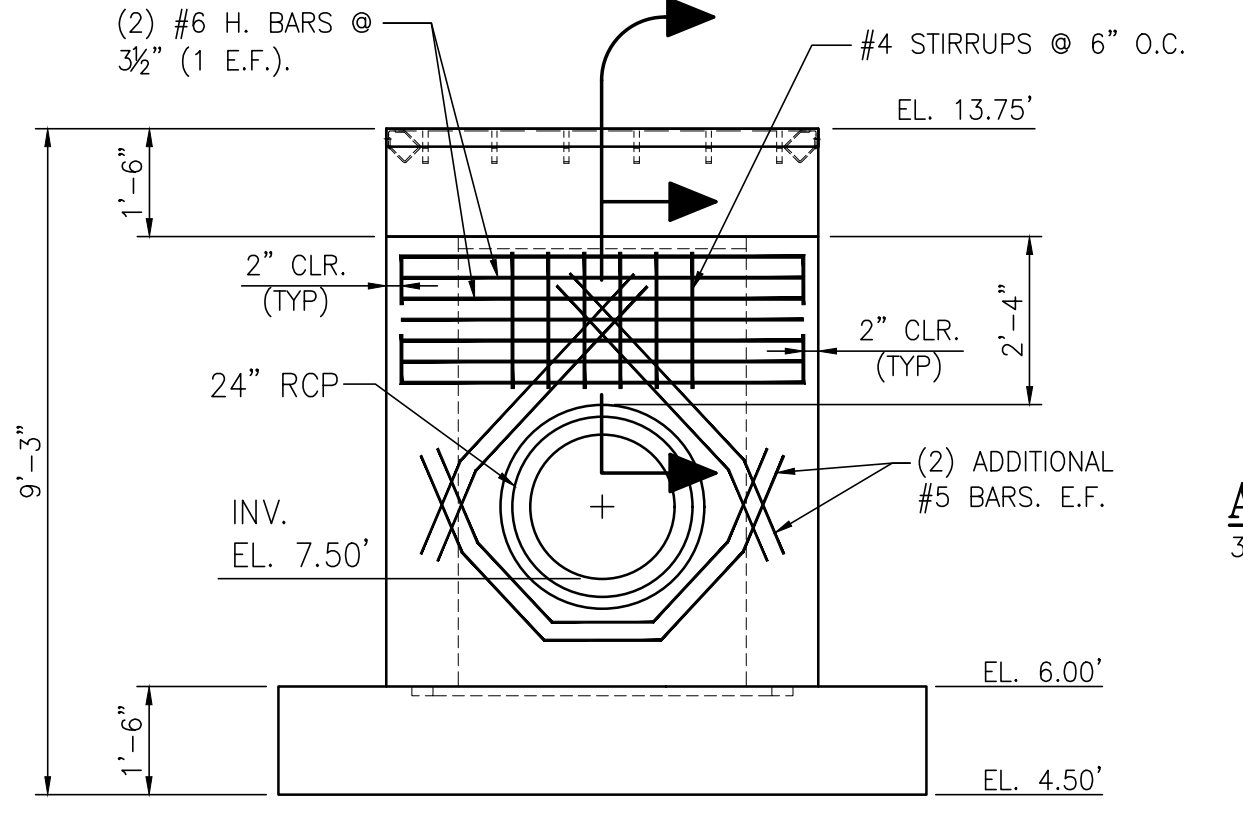
**SECTION C**  
3/8"=1'-0"



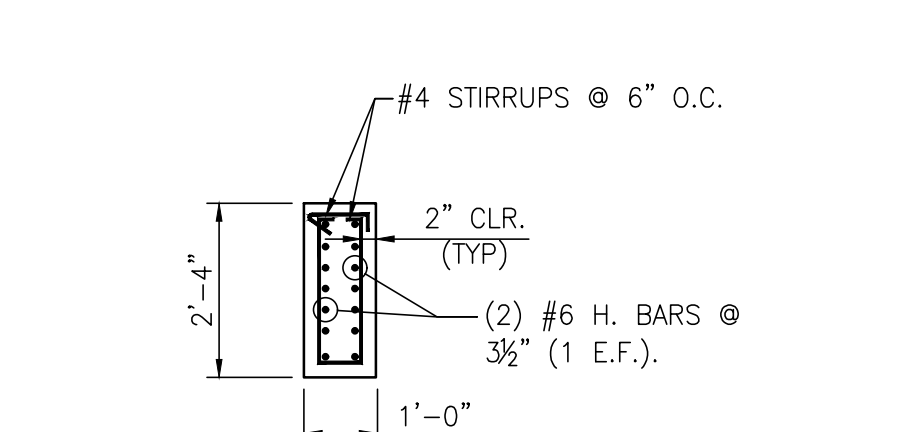
**KEYWAY & WATERSTOP DETAIL**  
NTS



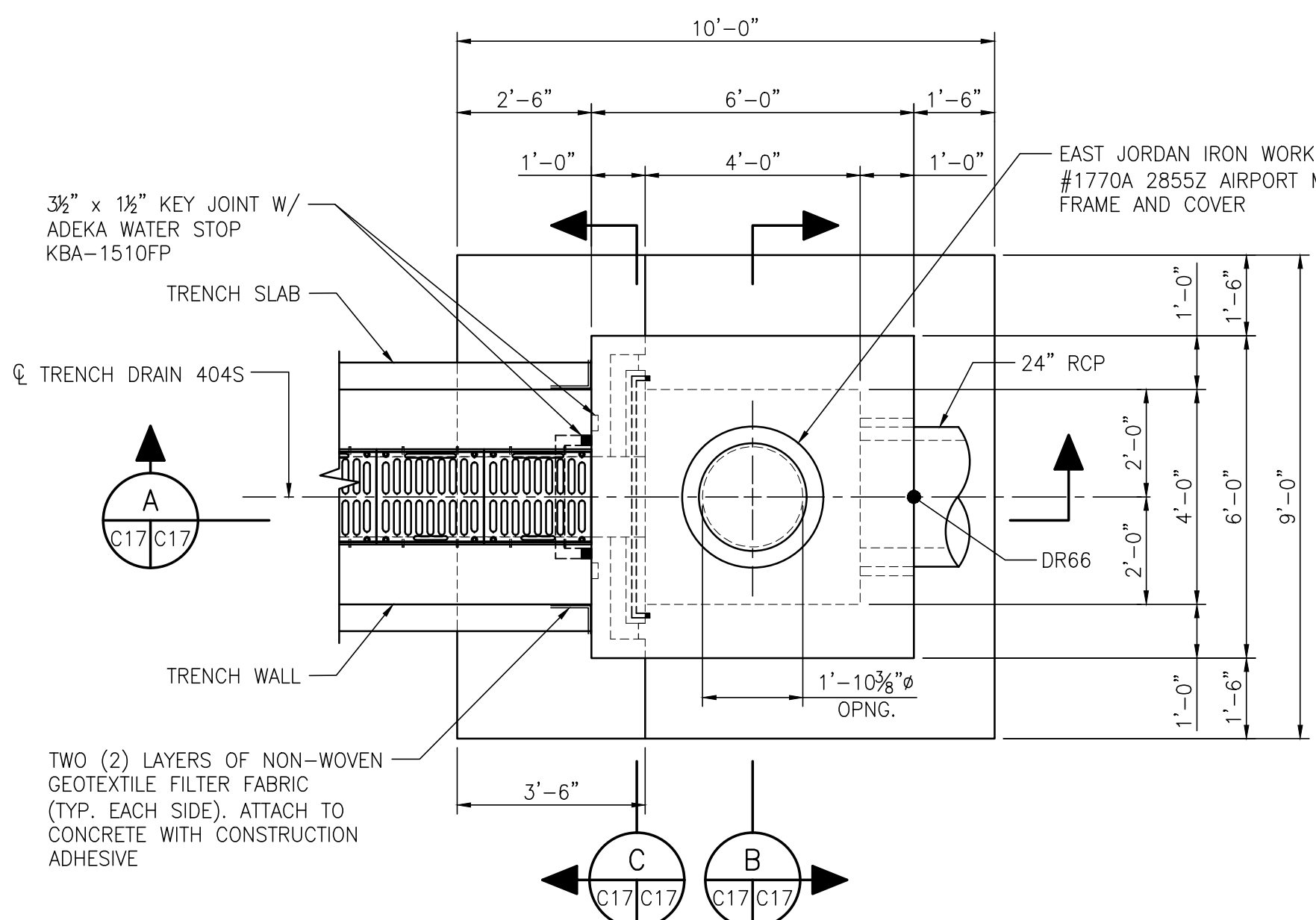
**WALL CORNER REINFORCING**  
3/8"=1'-0"



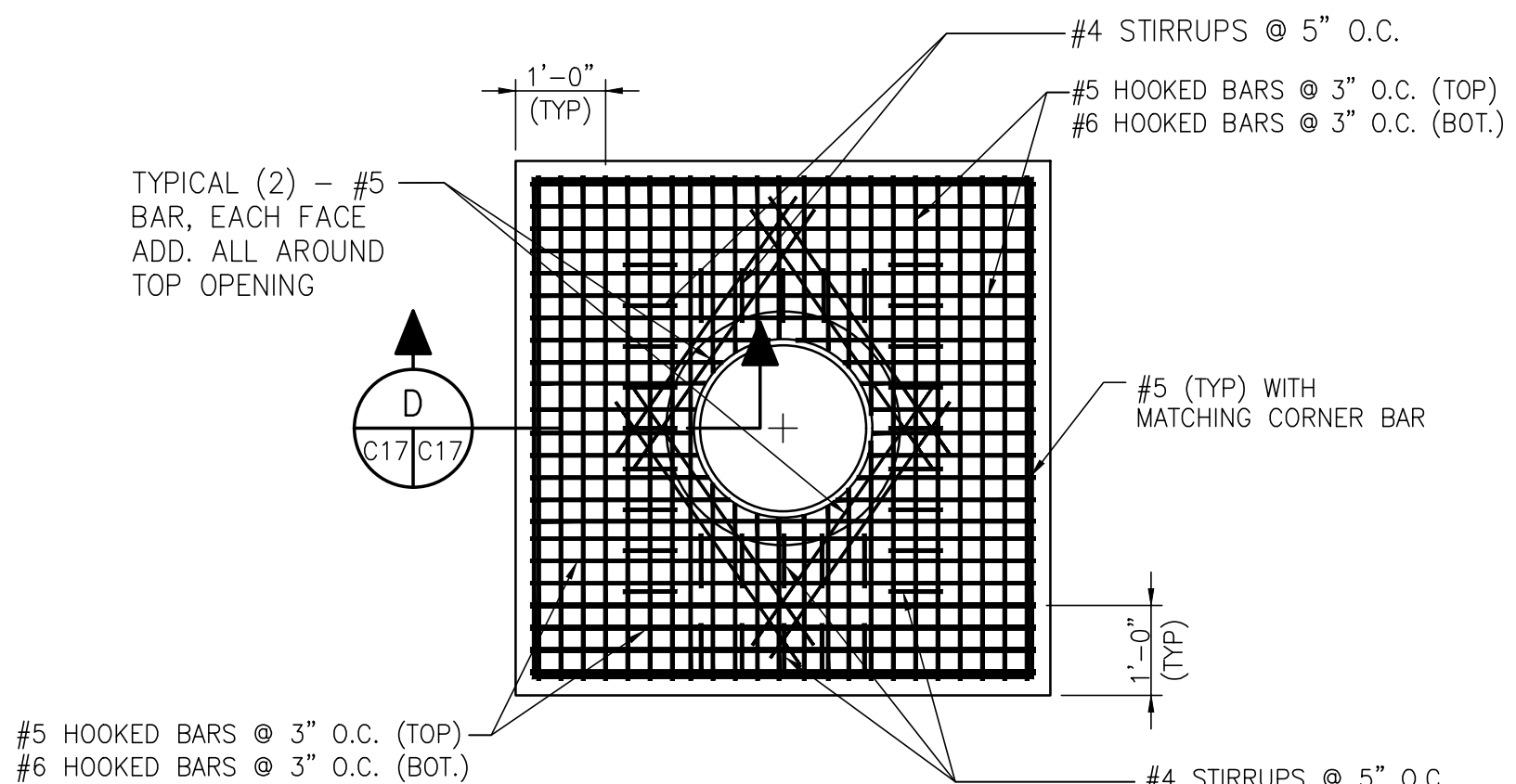
**ADDITIONAL SPANDREL REBAR SECTION**  
3/8"=1'-0"



**ADDITIONAL SPANDREL REBAR SECTION**  
3/8"=1'-0"



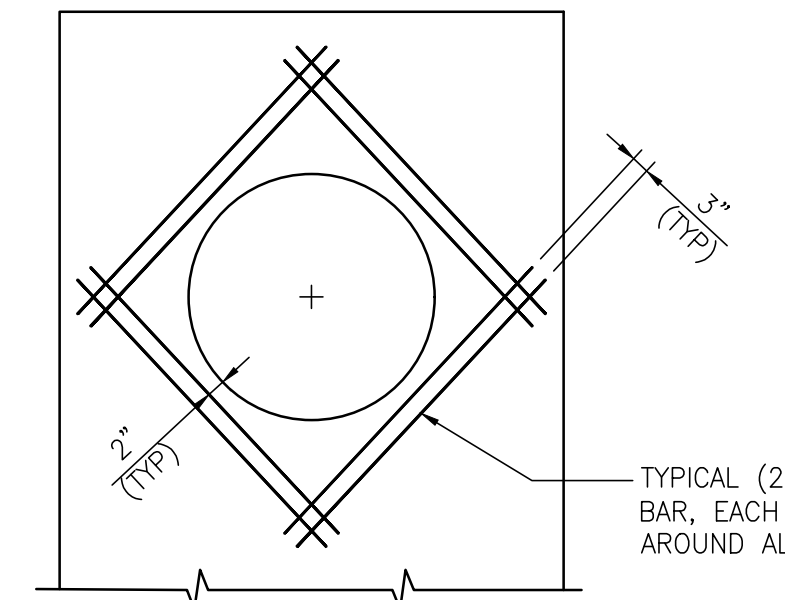
**JUNCTION BOX JB-11**  
3/8"=1'-0"



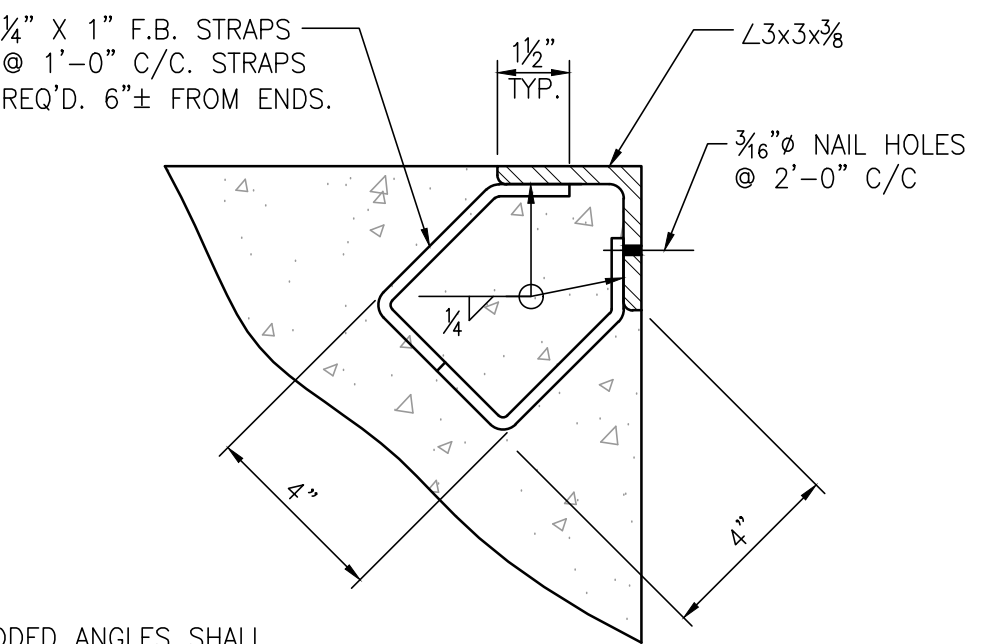
**TOP REBAR PLAN**  
1/2"=1'-0"

NOTE: EMBEDDED ANGLES FOR TOP EDGE PROTECTION OMITTED IN THIS PLAN

NOTE: MARK TOP TO INDICATE SIDE WITH EXTRA STIRRUPS OVER TRENCH DRAIN OPENING.

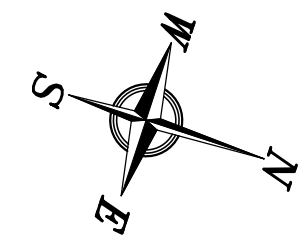


**ADDITIONAL REBAR AROUND WALL OPENINGS (TYP)**  
NTS



**EMBEDDED ANGLE DETAIL**  
3"=1'-0"

NOTE: EMBEDDED ANGLES FOR TOP EDGE PROTECTION AT JUNCTION BOX & TRENCH DRAIN OMITTED IN THIS DETAIL



NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DATE	DRAWN	CK'D	APPD
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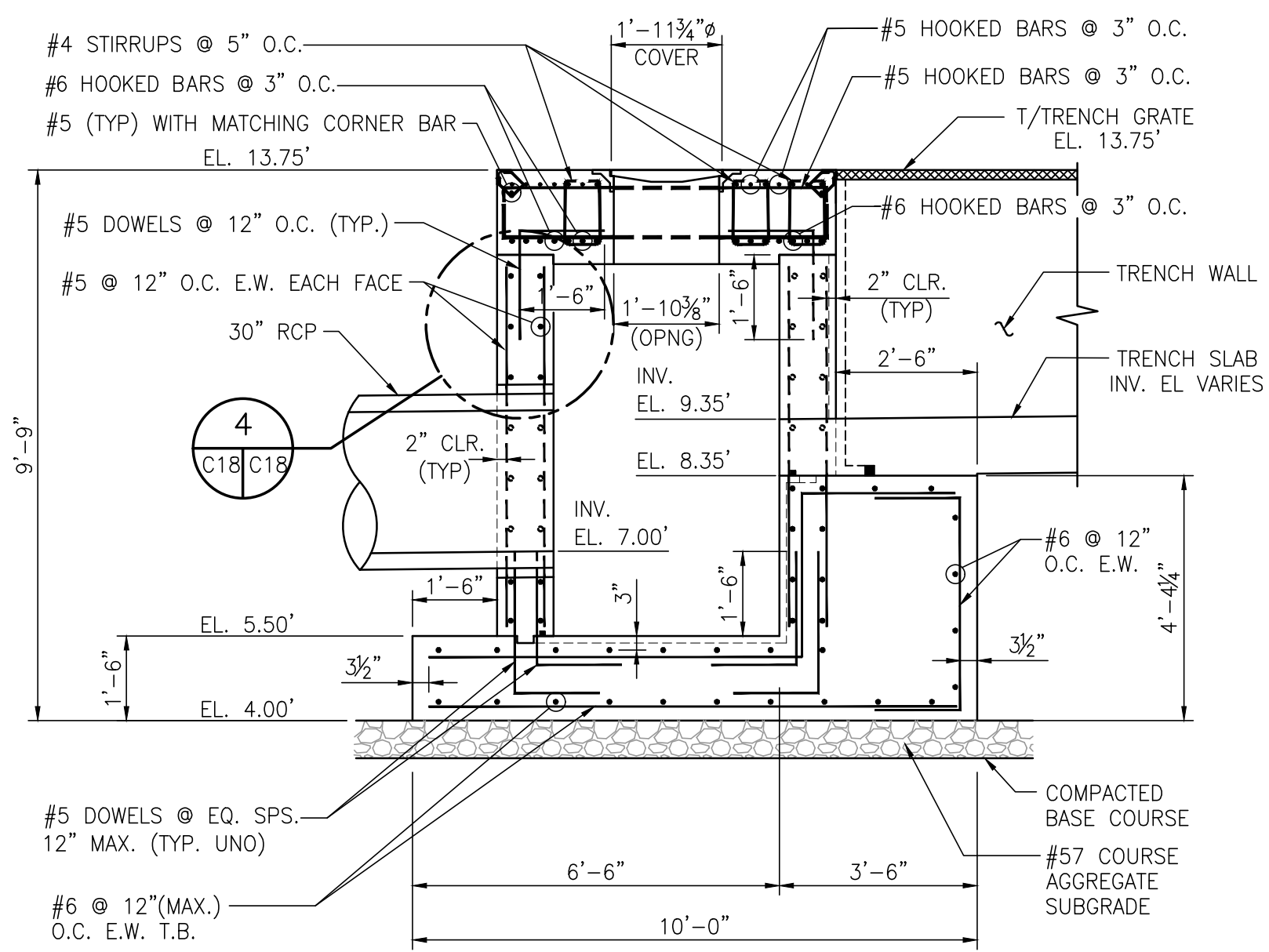
ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-11" DETAILS

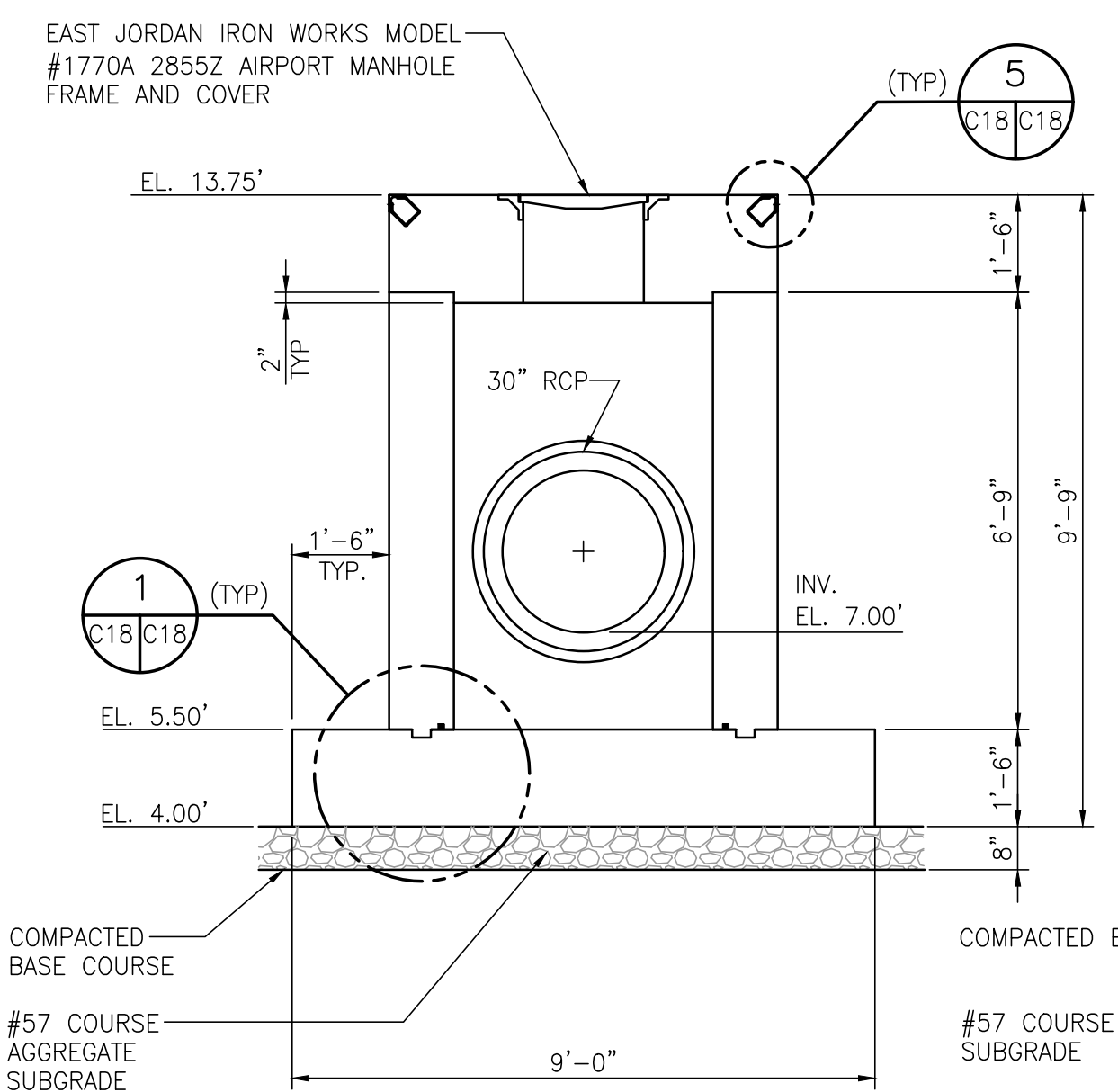
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484  
DWG NO: C17  
REV: A

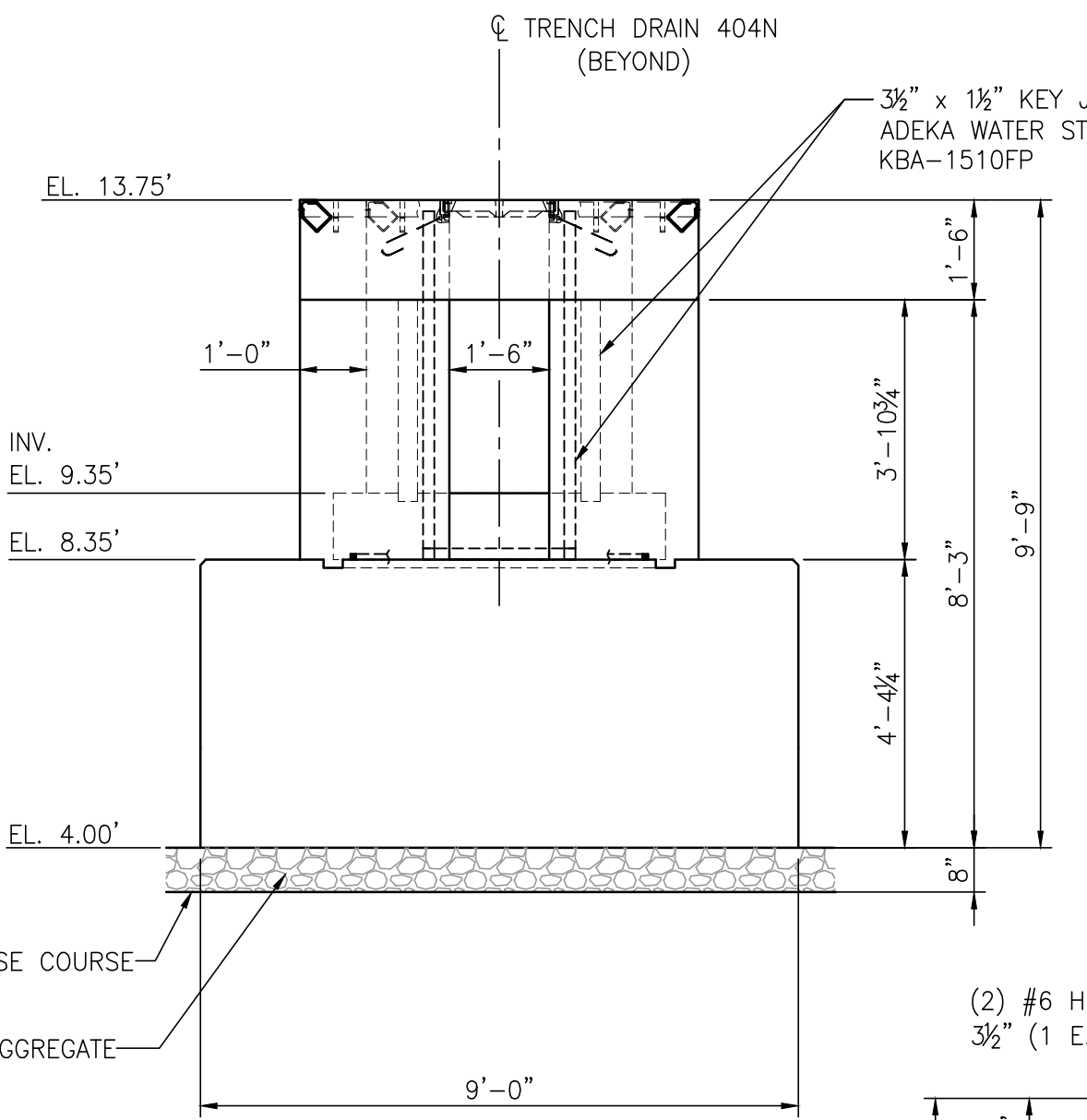




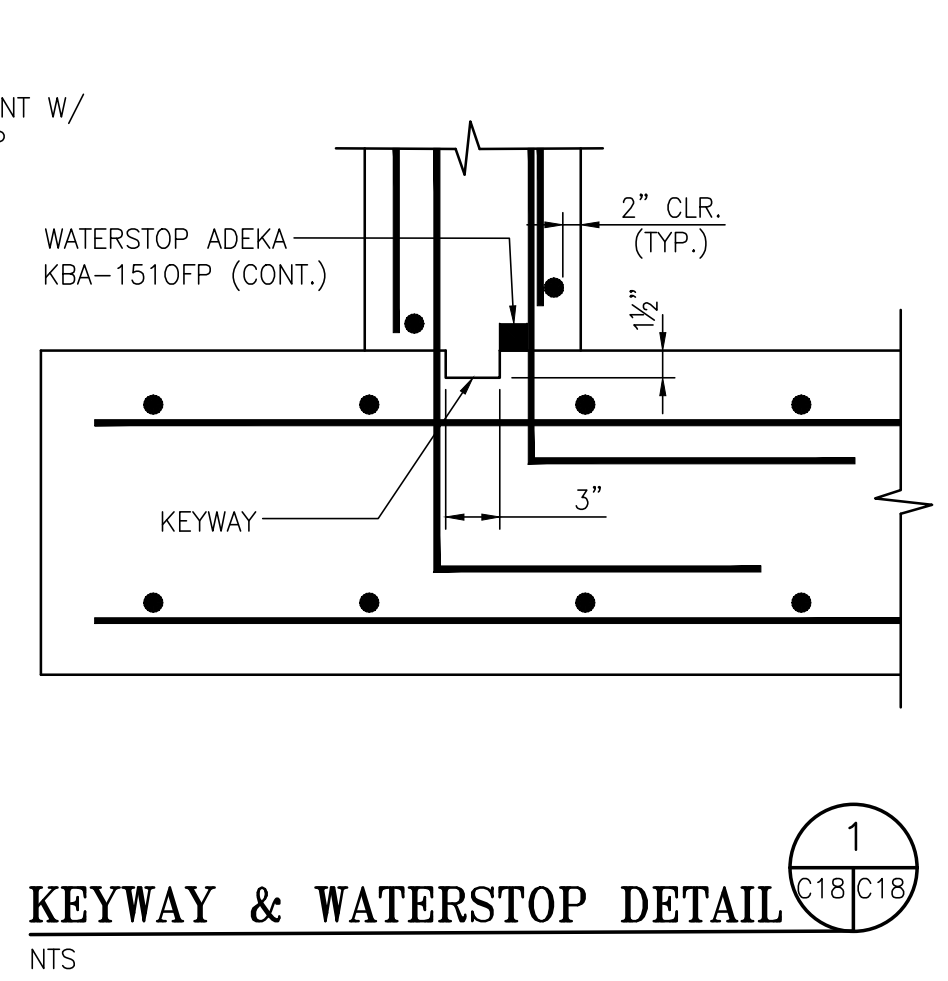
**SECTION A**  
C18/C18  
3/8"=1'-0"



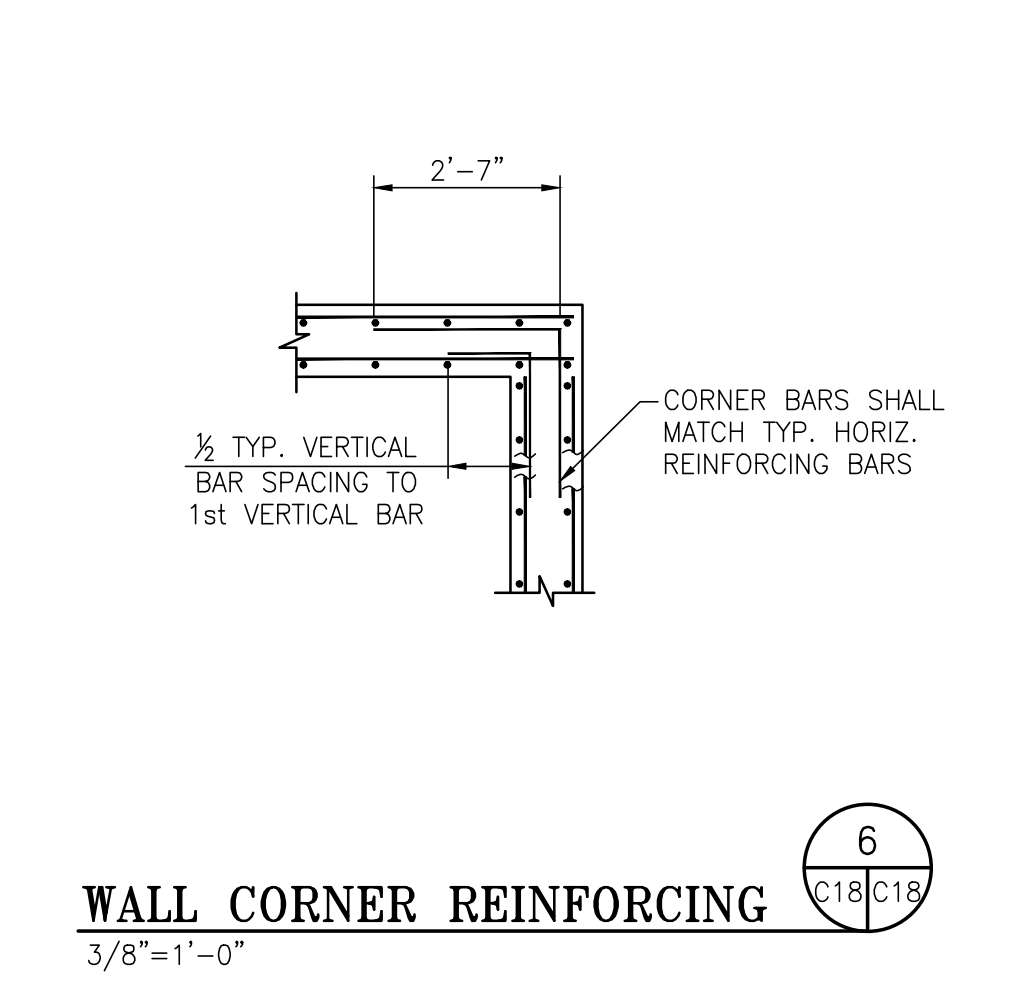
**SECTION B**  
C18/C18  
3/8"=1'-0"



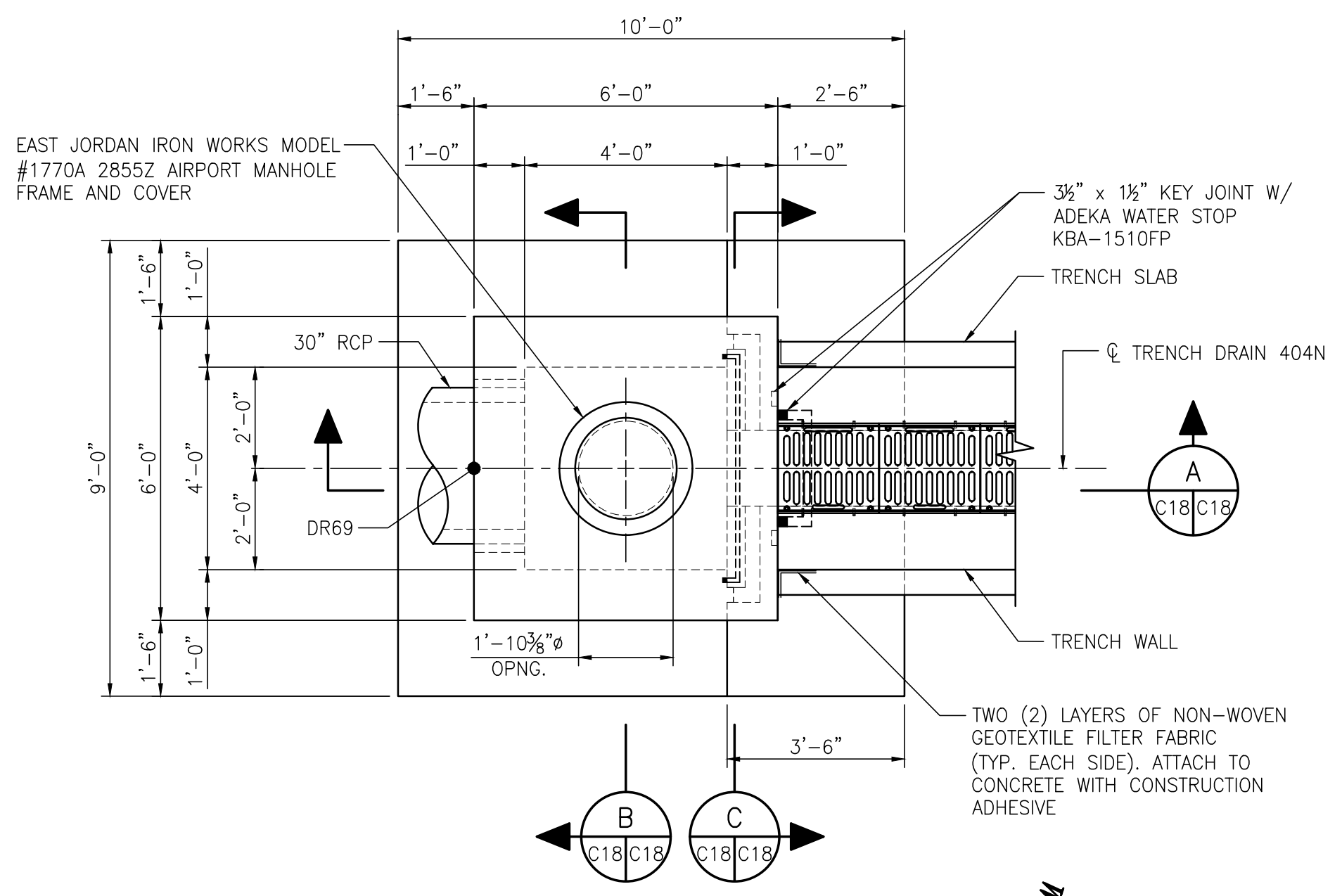
**SECTION C**  
C18/C18  
3/8"=1'-0"



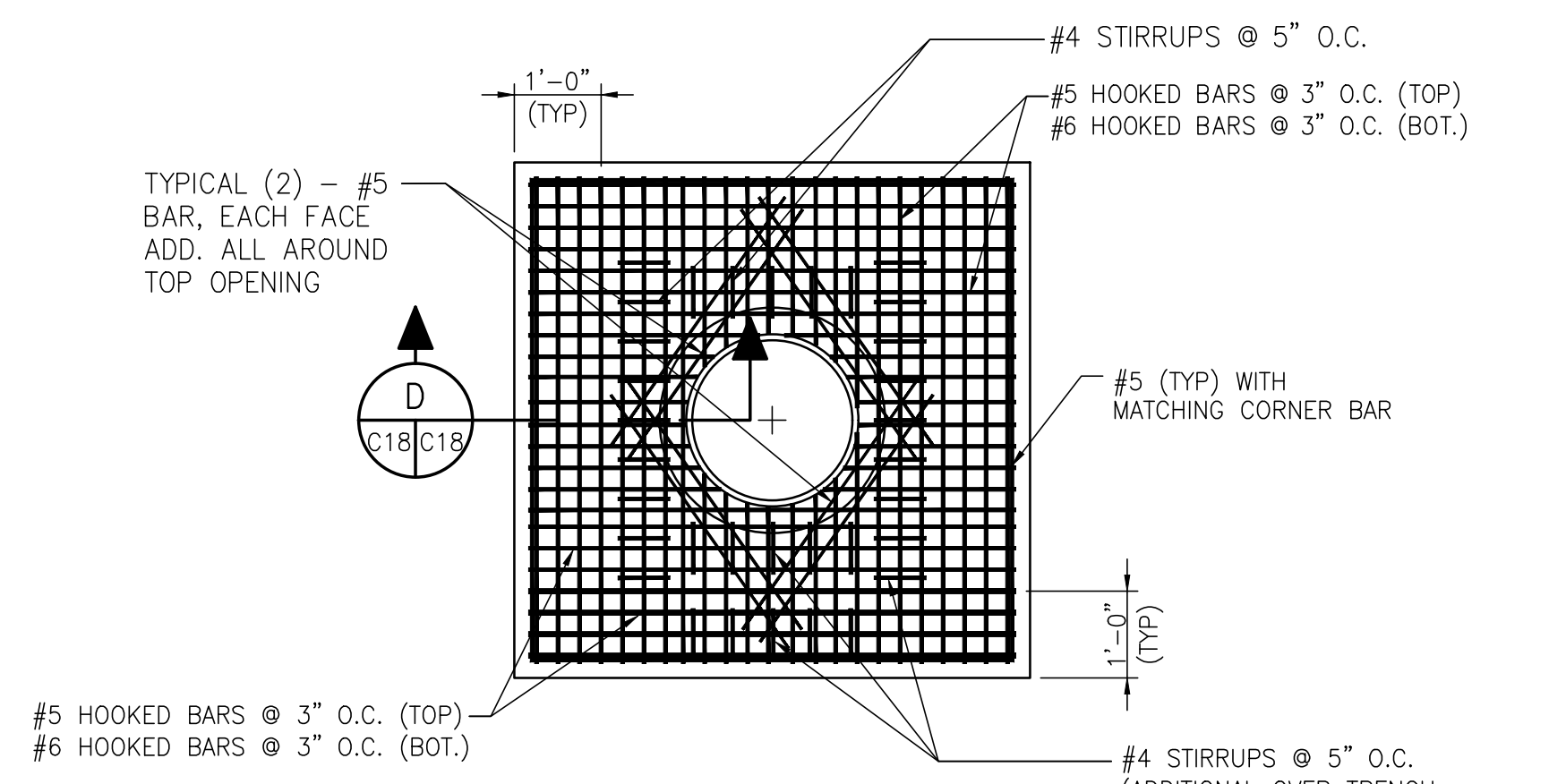
**KEYWAY & WATERSTOP DETAIL**  
C18/C18  
1/8"=1'-0"



**WALL CORNER REINFORCING**  
C18/C18  
1/8"=1'-0"



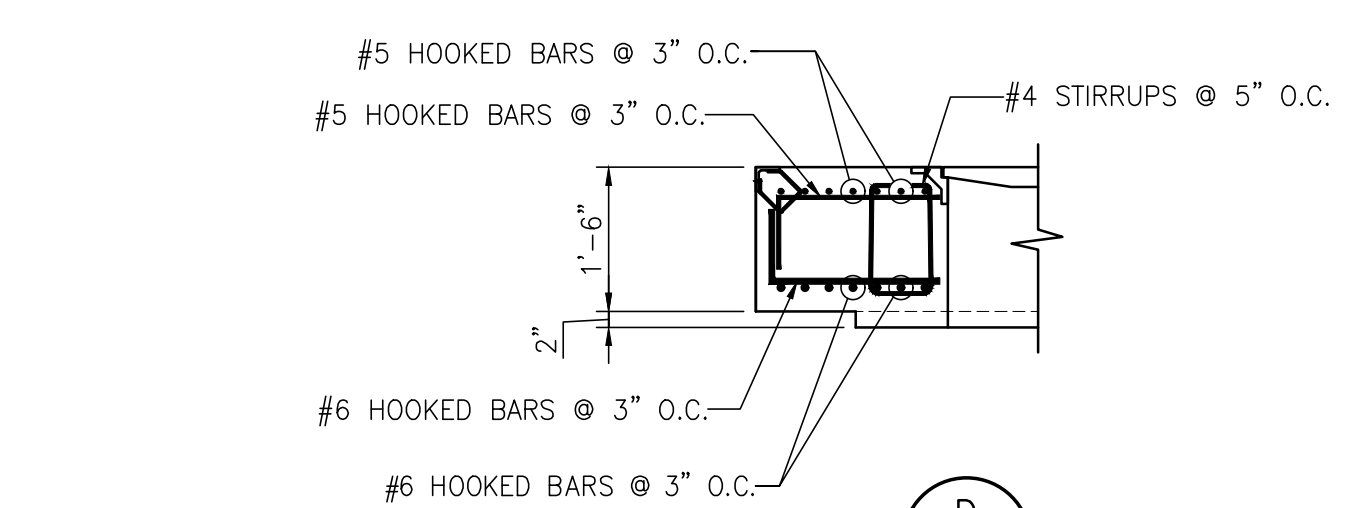
**JUNCTION BOX JB-12**  
C5/C18  
3/8"=1'-0"



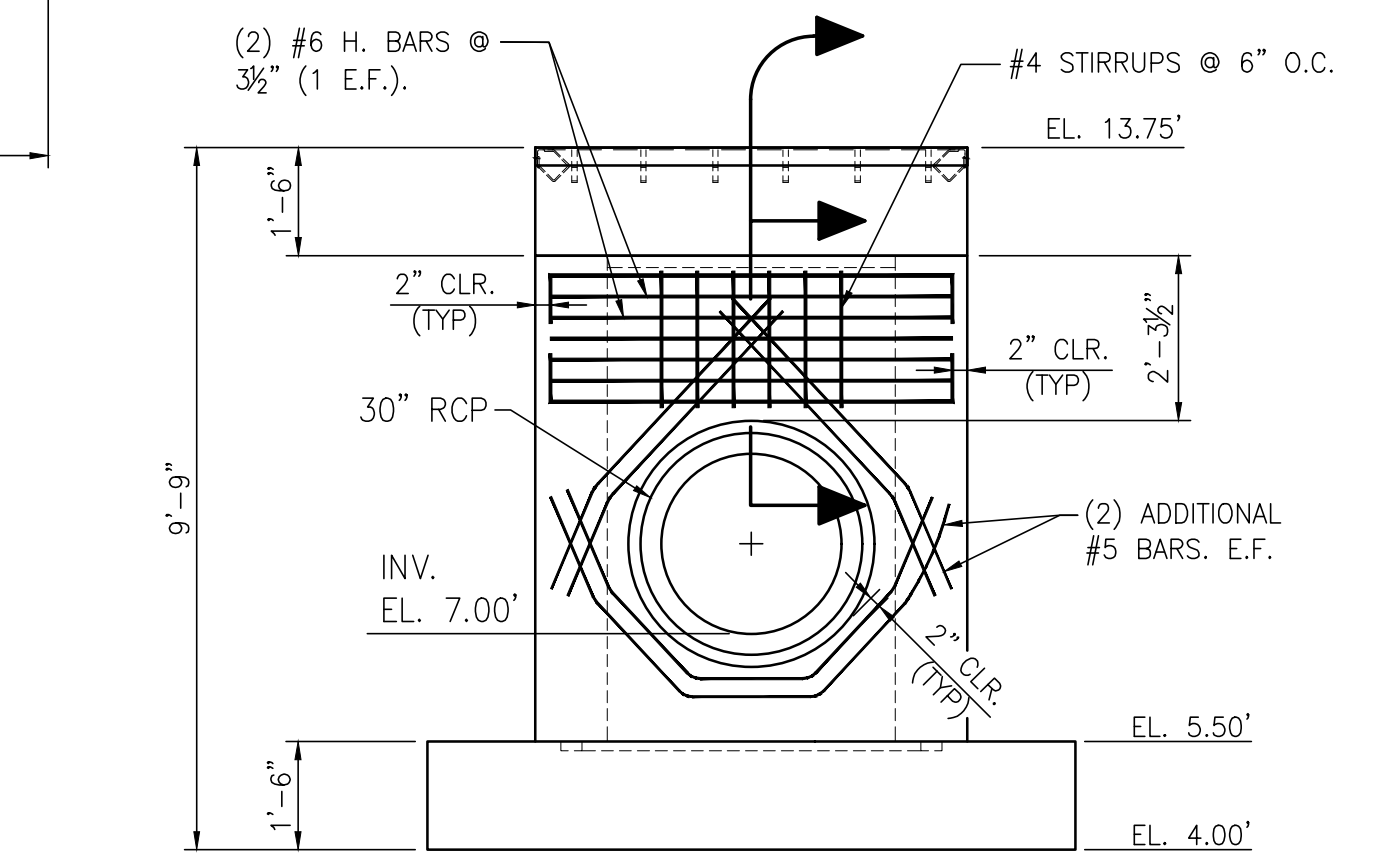
**TOP REBAR PLAN**  
C18/C18  
1/2"=1'-0"

NOTE:  
EMBEDDED ANGLES FOR  
TOP EDGE PROTECTION  
OMITTED IN THIS PLAN

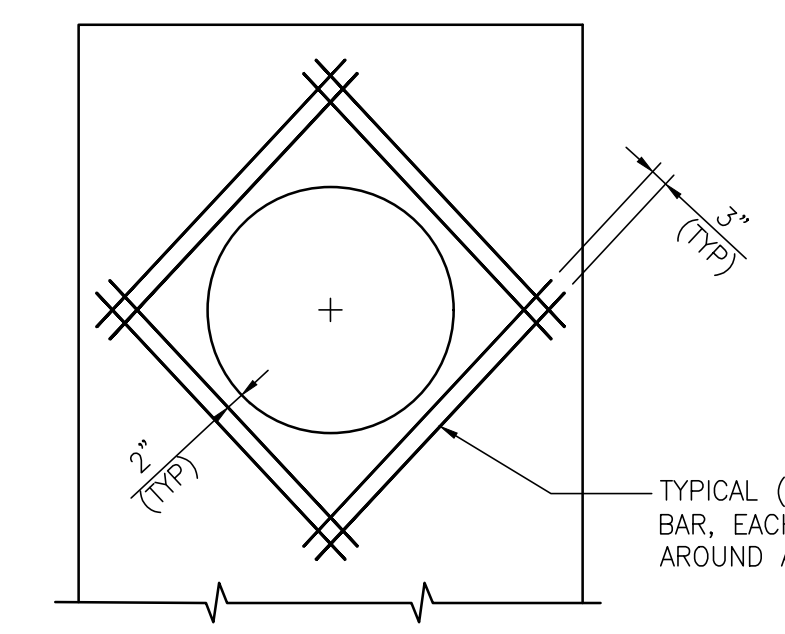
NOTE:  
MARK TOP TO INDICATE SIDE  
WITH EXTRA STIRRUPS OVER  
TRENCH DRAIN OPENING.



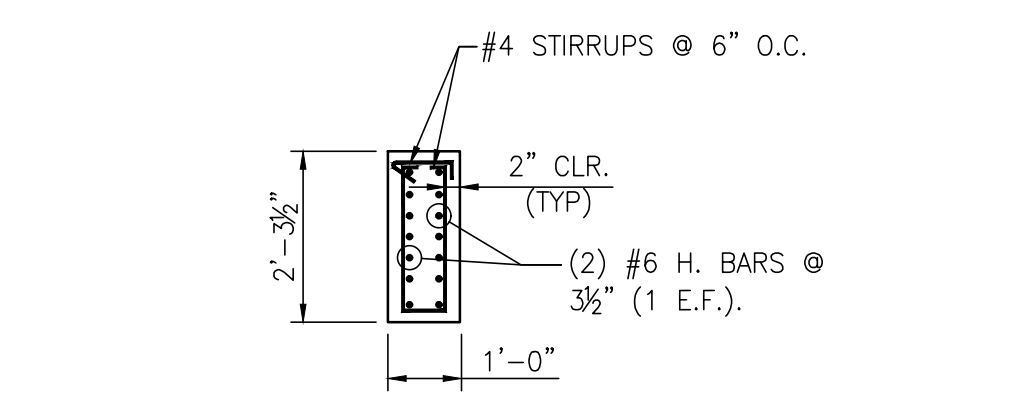
**SECTION**  
C17/C17  
1/2"=1'-0"



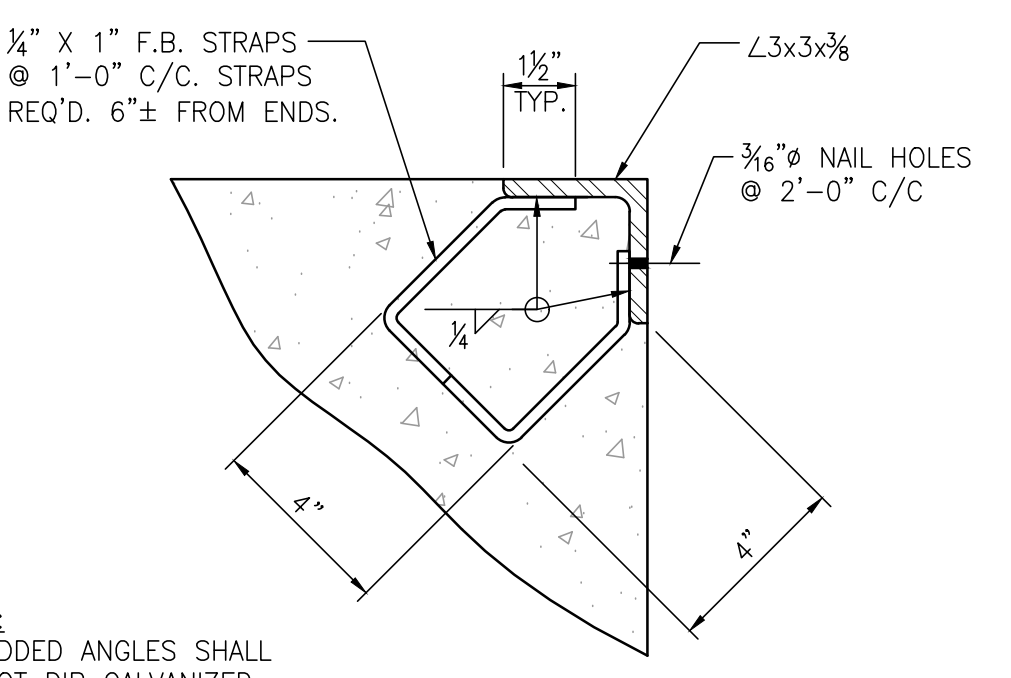
**ADDITIONAL SPANDREL REBAR SECTION**  
C18/C18  
3/8"=1'-0"



**ADDITIONAL REBAR AROUND WALL OPENINGS (TYP)**  
C18/C18  
1/8"=1'-0"

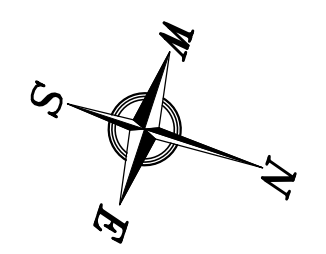


**ADDITIONAL SPANDREL REBAR SECTION**  
C18/C18  
3/8"=1'-0"



**EMBEDDED ANGLE DETAIL**  
C18/C18  
3/8"=1'-0"

NOTE:  
EMBEDDED ANGLES FOR  
TOP EDGE PROTECTION AT  
JUNCTION BOX & TRENCH  
DRAIN OMITTED IN THIS DETAIL



NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DATE	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	04/05/24	RST	MED	RSG	04/05/24

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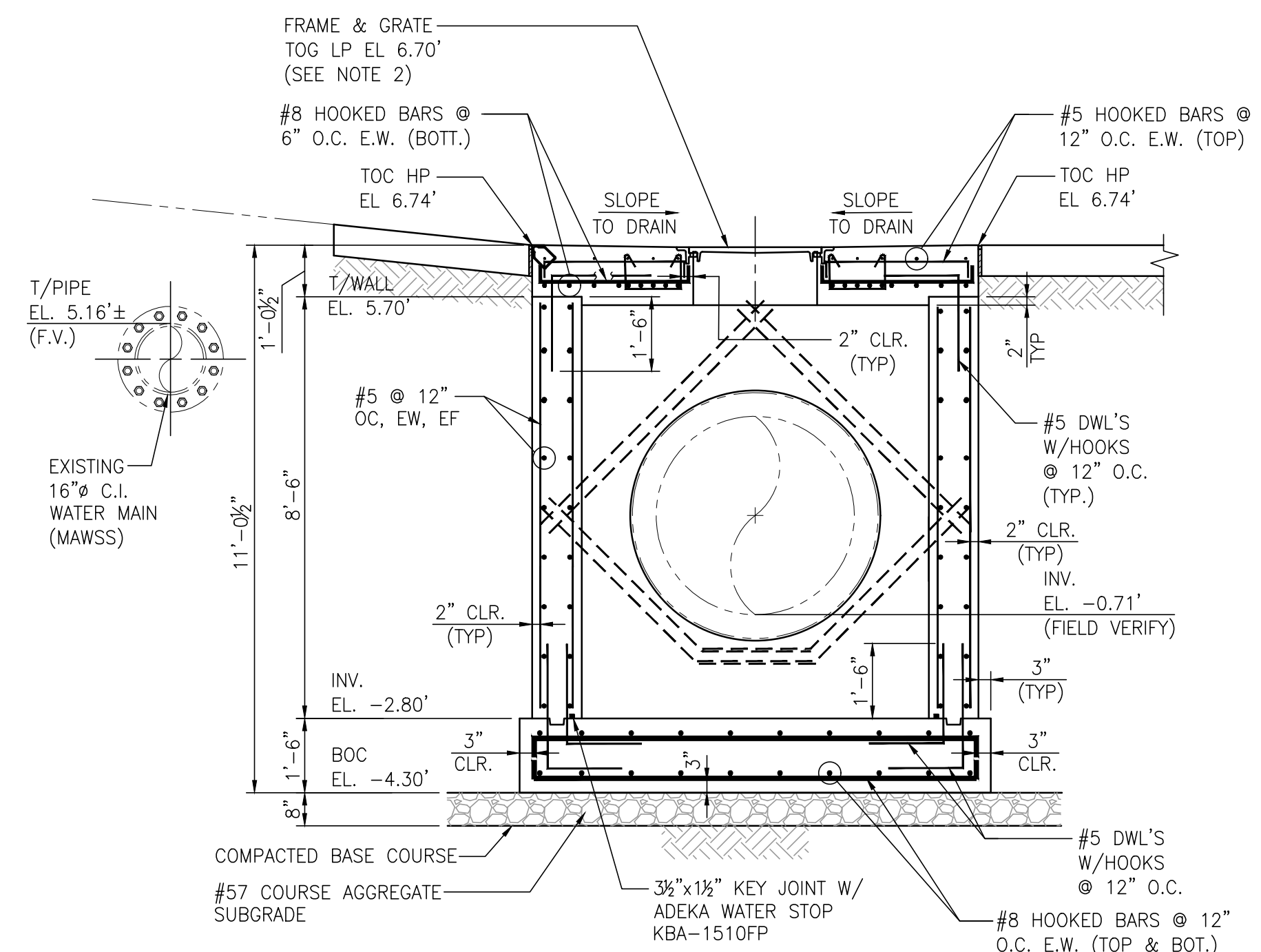
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1    ASPA DWG NO:

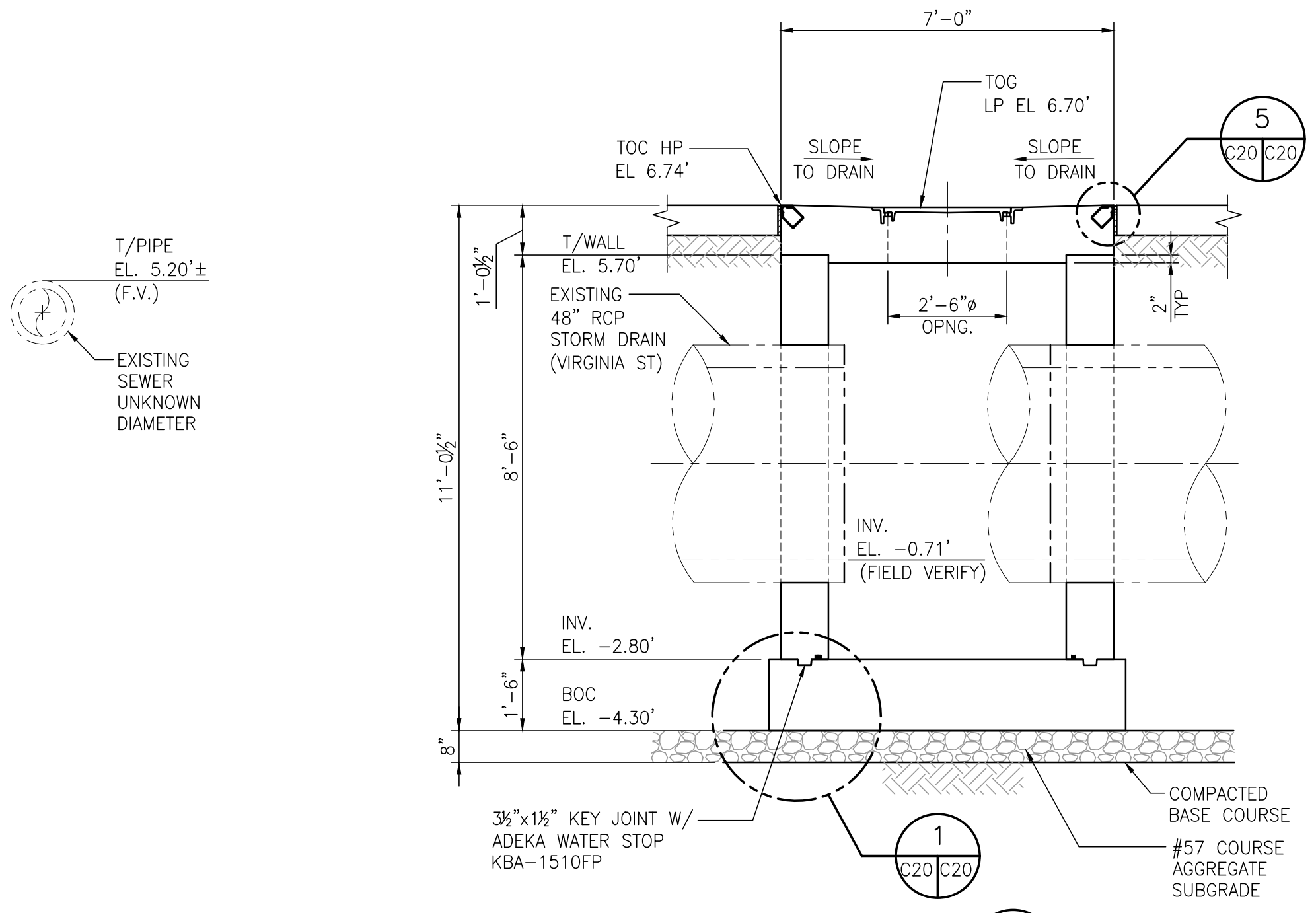
APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
JUNCTION BOX "JB-12" DETAILS

FOR: ALABAMA PORT AUTHORITY

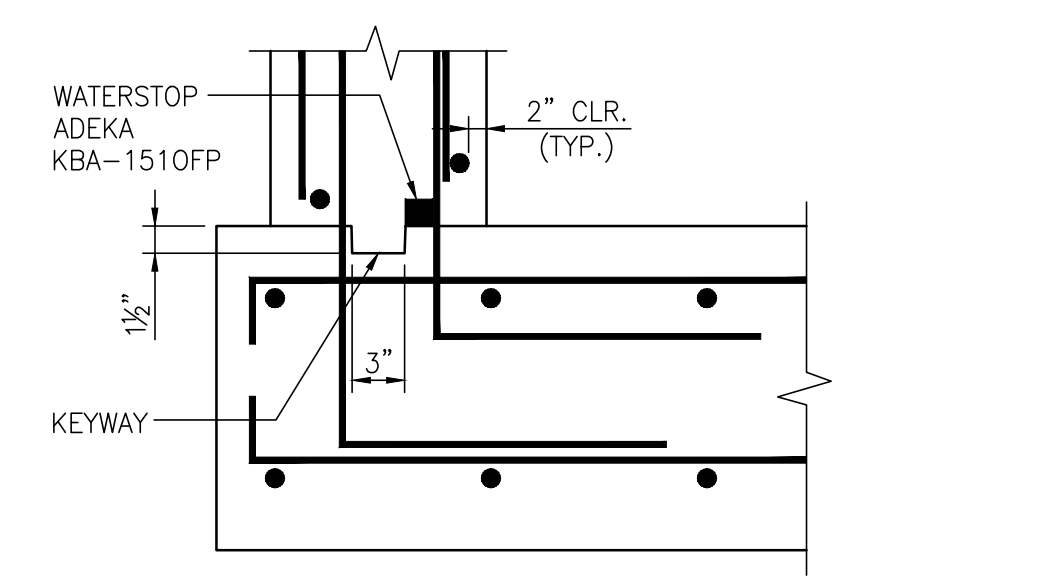
PROJECT NO: 4484    DWG NO: C18    REV: A



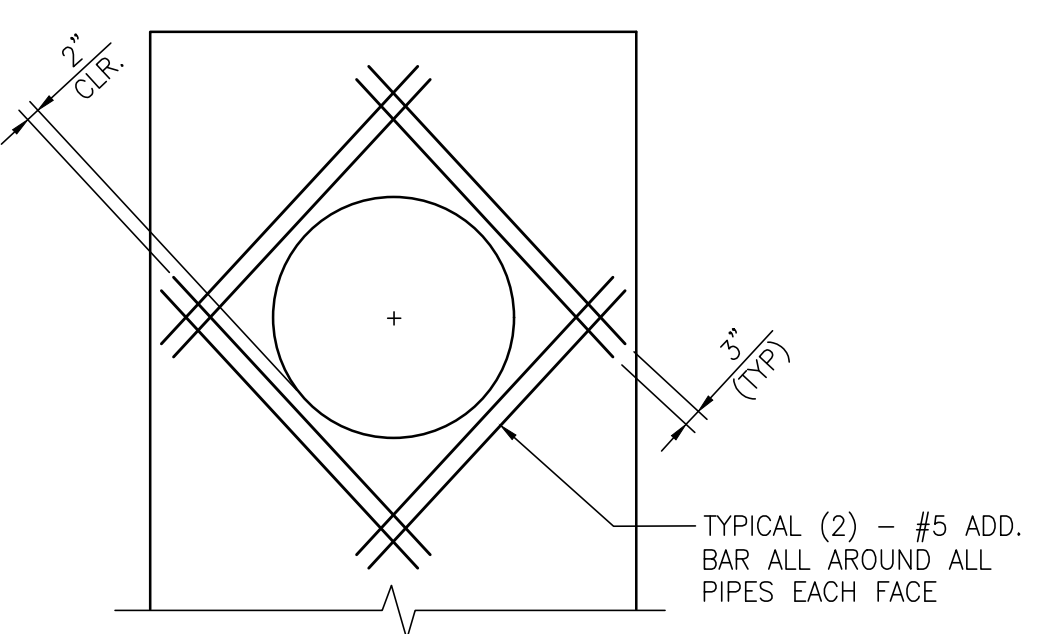
**SECTION A**  
3/8"=1'-0"



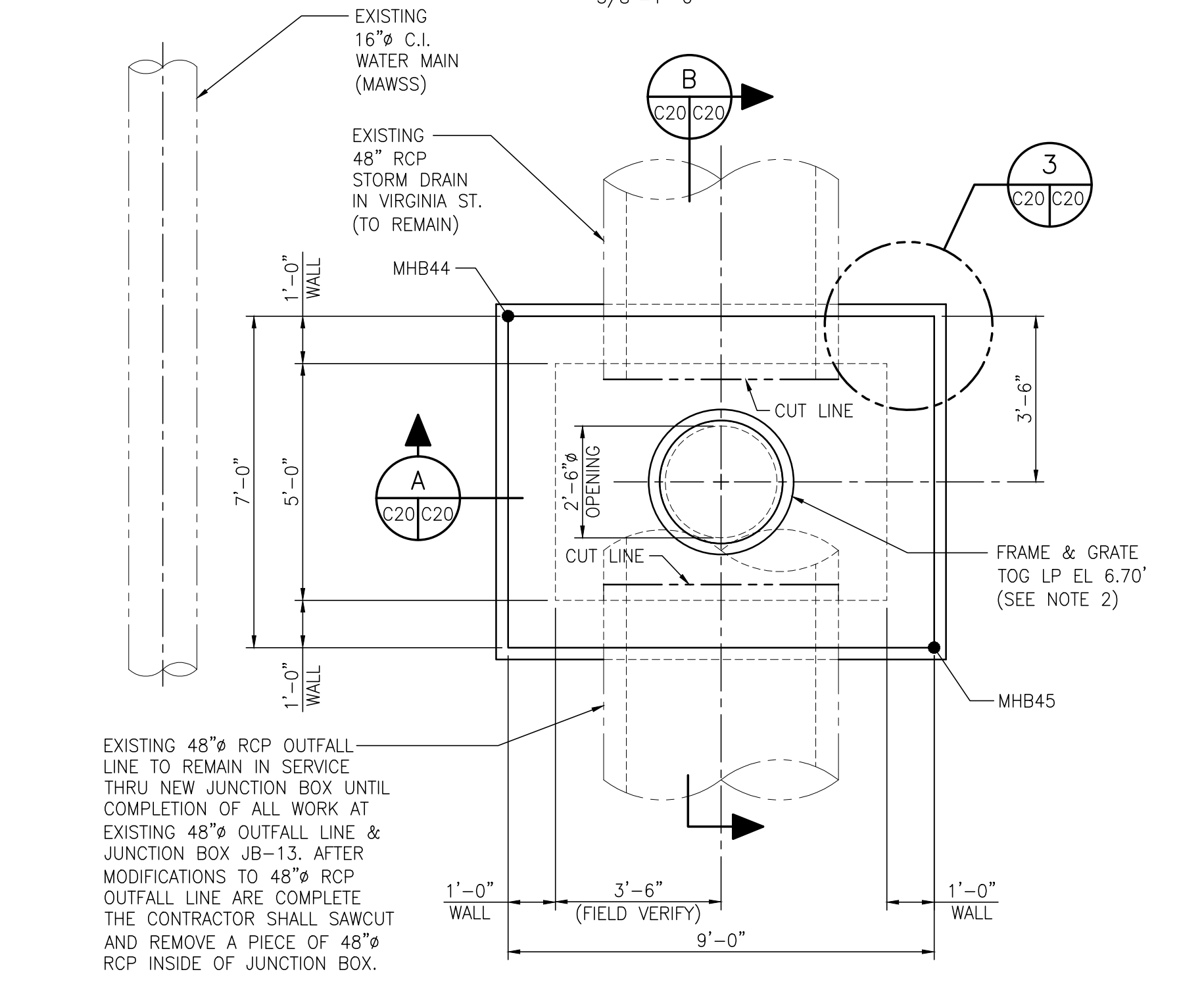
**SECTION B**  
3/8"=1'-0"



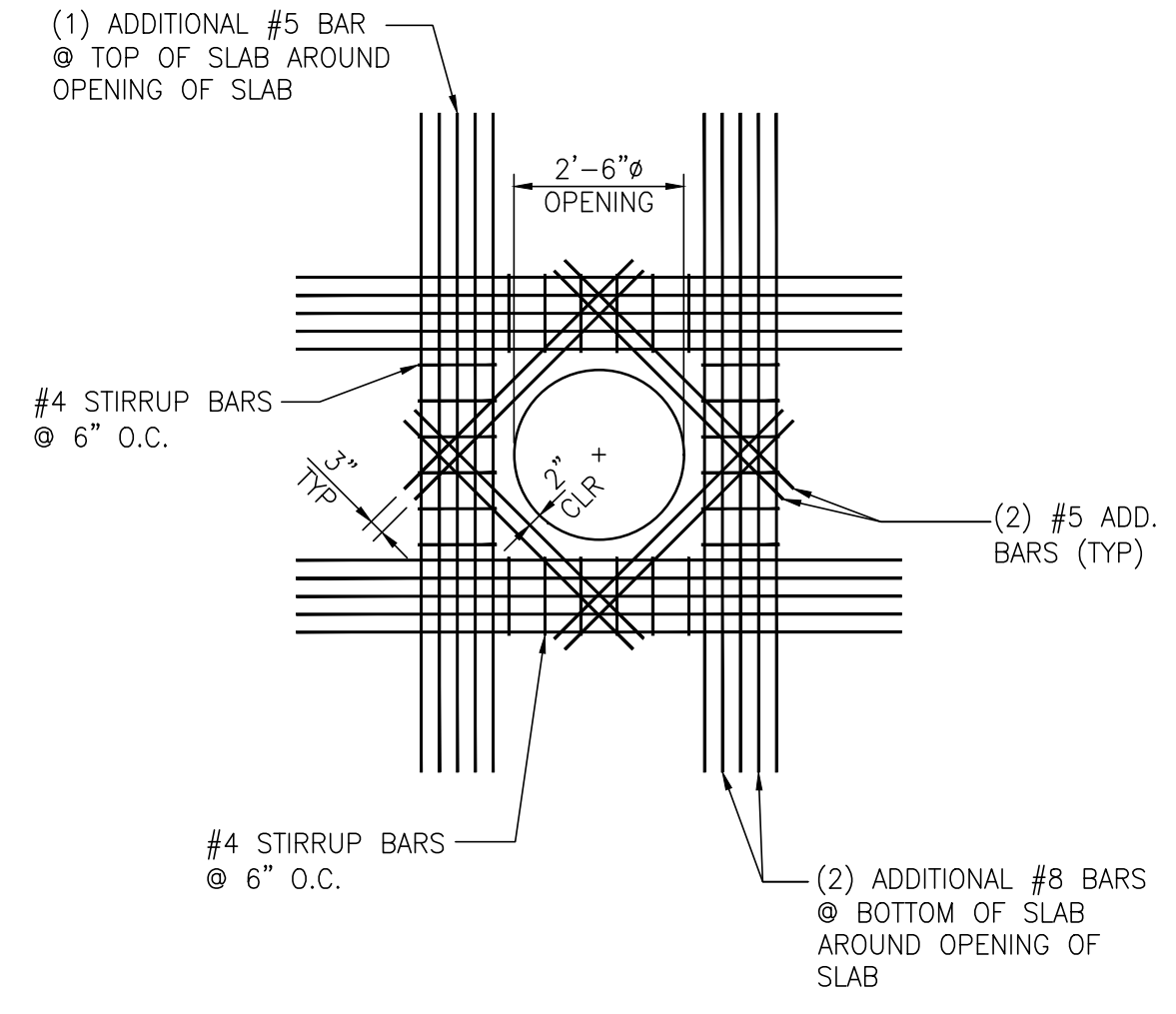
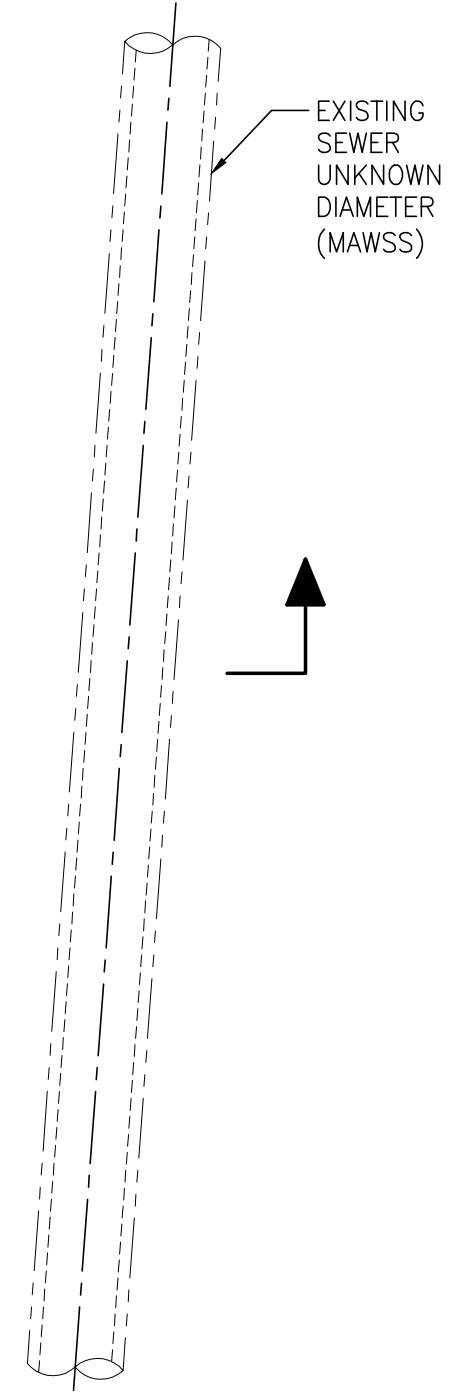
**KEYWAY & WATERSTOP DETAIL**  
N.T.S.



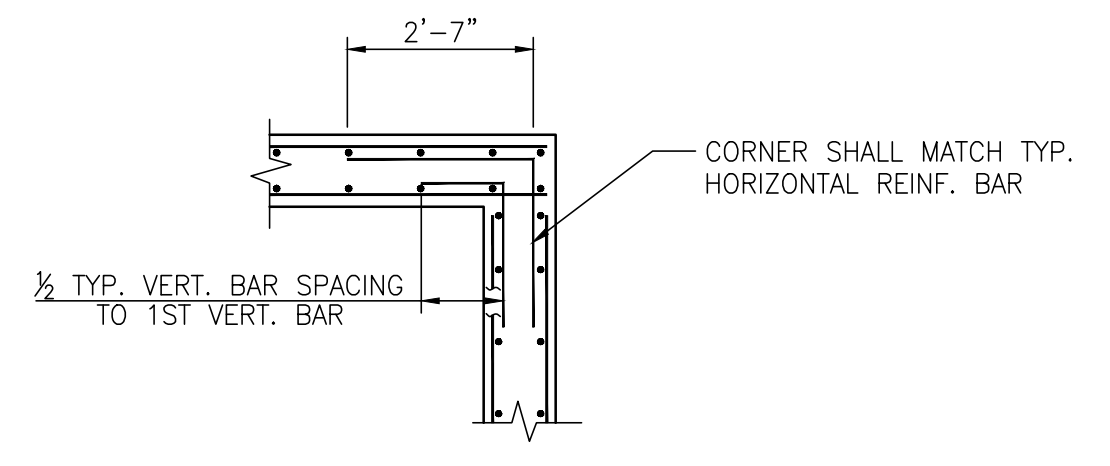
**ADD. REBAR AROUND WALL OPENINGS (TYP)**  
N.T.S.



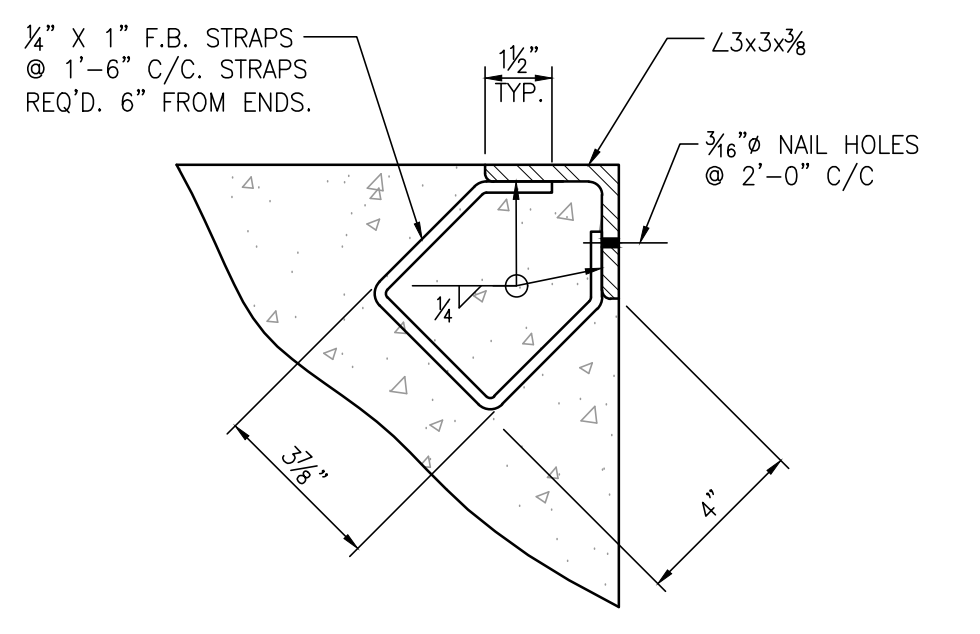
**JUNCTION BOX "JB-13"**  
3/8"=1'-0"



**ADD. REBAR AROUND TOP OPENING**  
3/8"=1'-0"



**WALL CORNER REINFORCING (TYP)**  
3/8"=1'-0"



**EMBEDDED ANGLE DETAIL**  
3/8"=1'-0"

**NOTE:**  
SEE DRAWING NO. 23-017A FOR GEOPHYSICAL SUBSURFACE SURVEY DETECTED FEATURES OF WATER, SEWER, STORM DRAIN & NATURAL GAS PIPES IN THIS AREA. (EXCAVATE WITH CAUTION)

**NOTE:**  
EMBEDDED ANGLES FOR TOP EDGE PROTECTION OMITTED IN THIS DETAIL



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

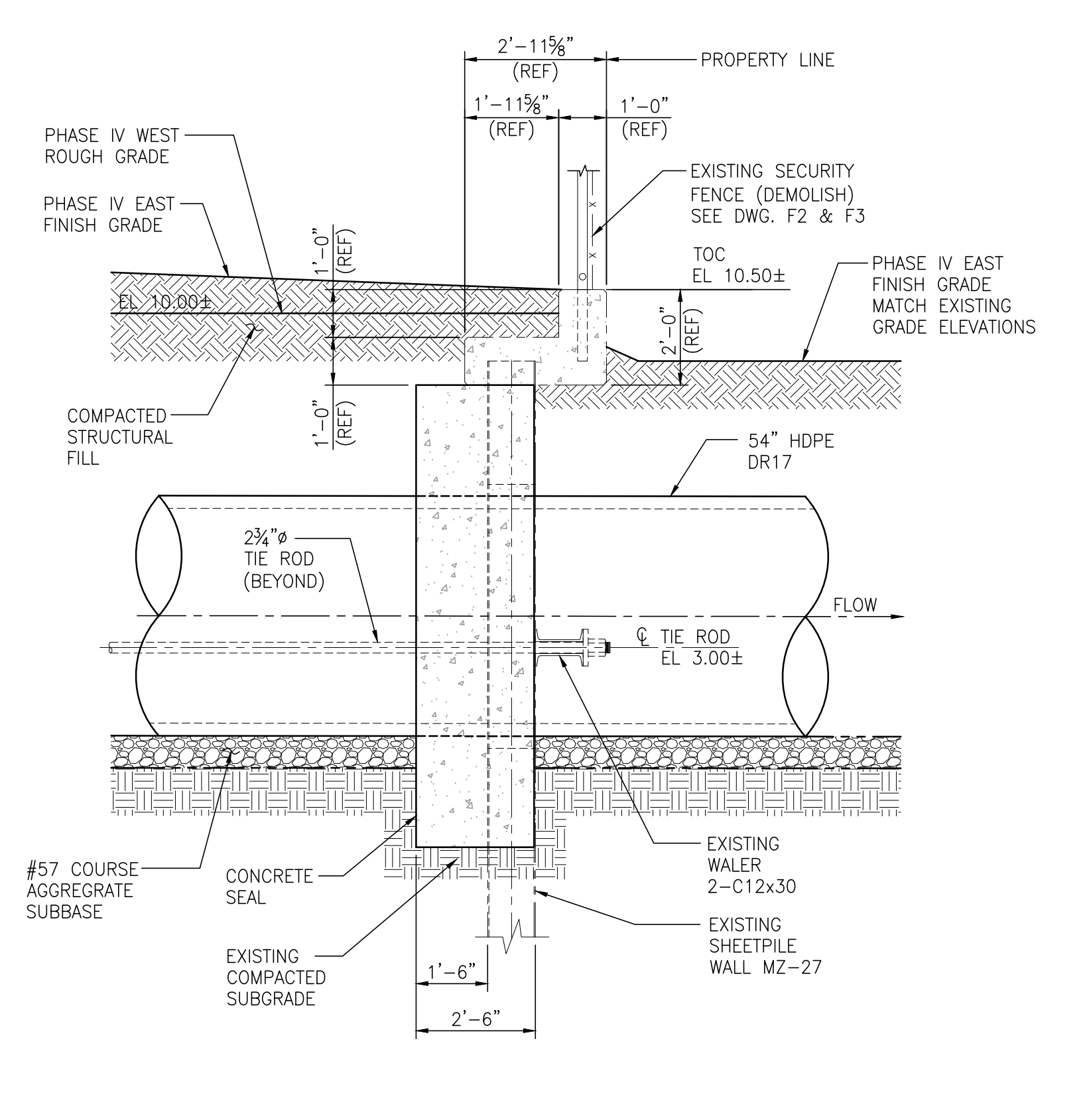
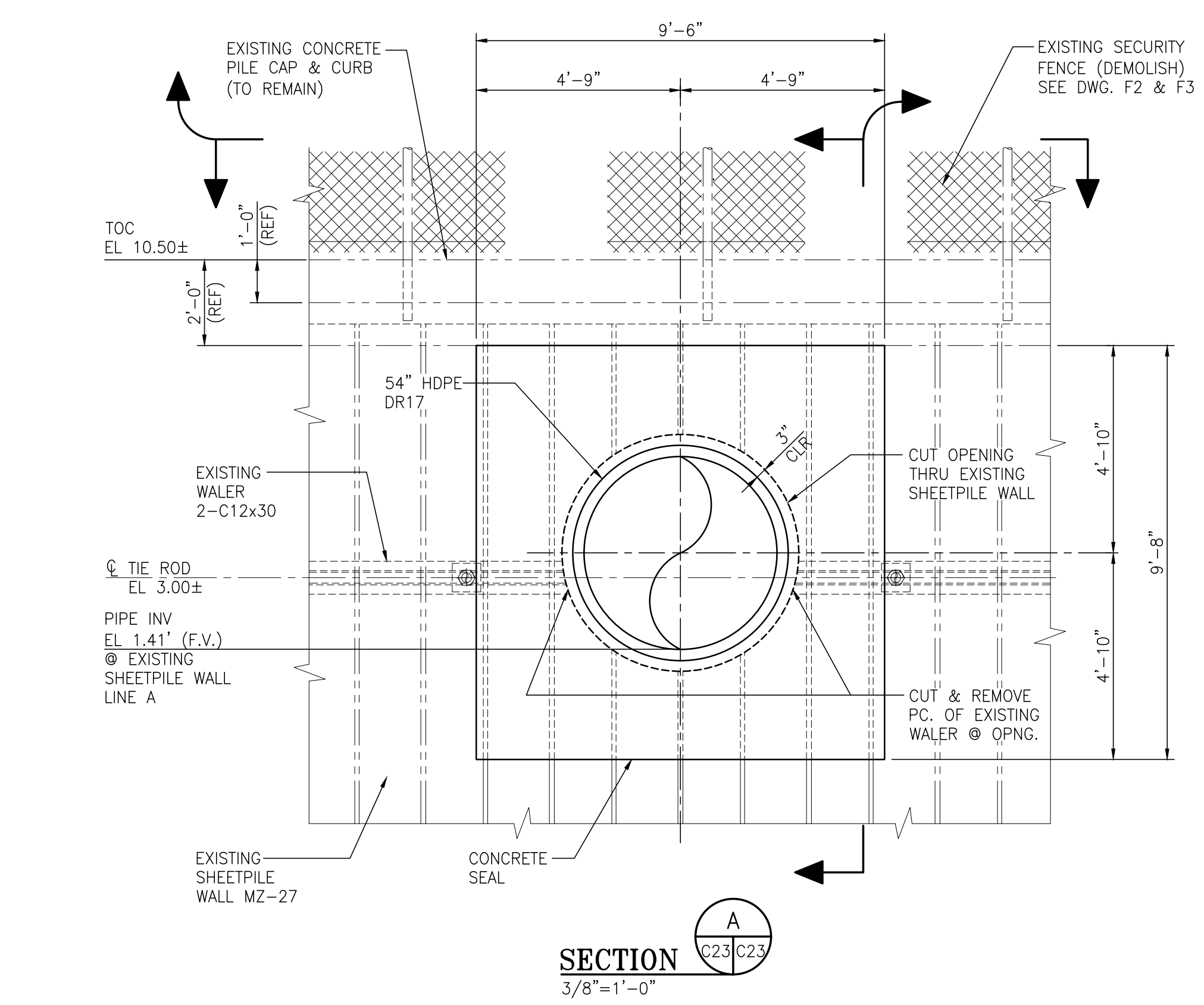
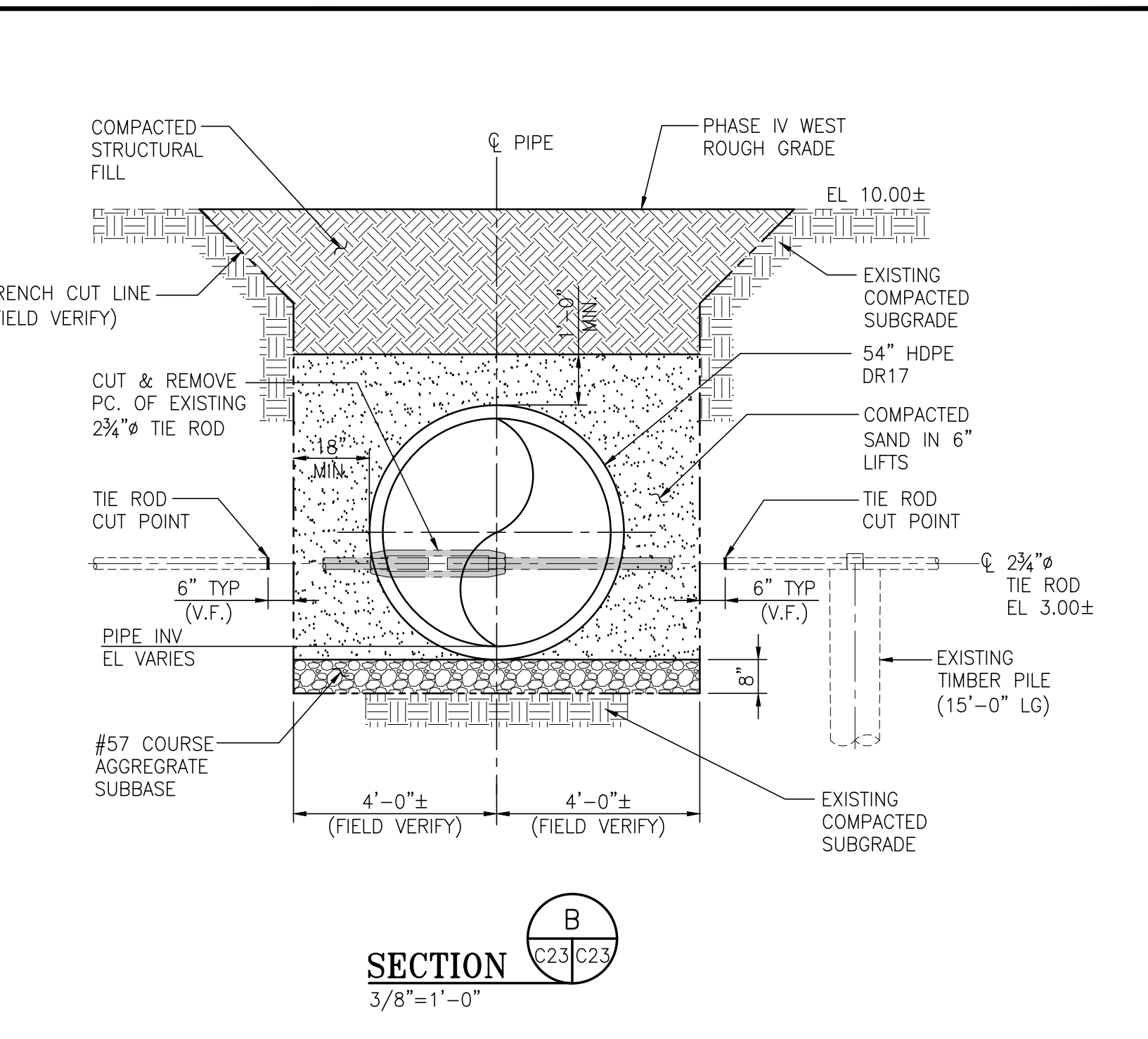
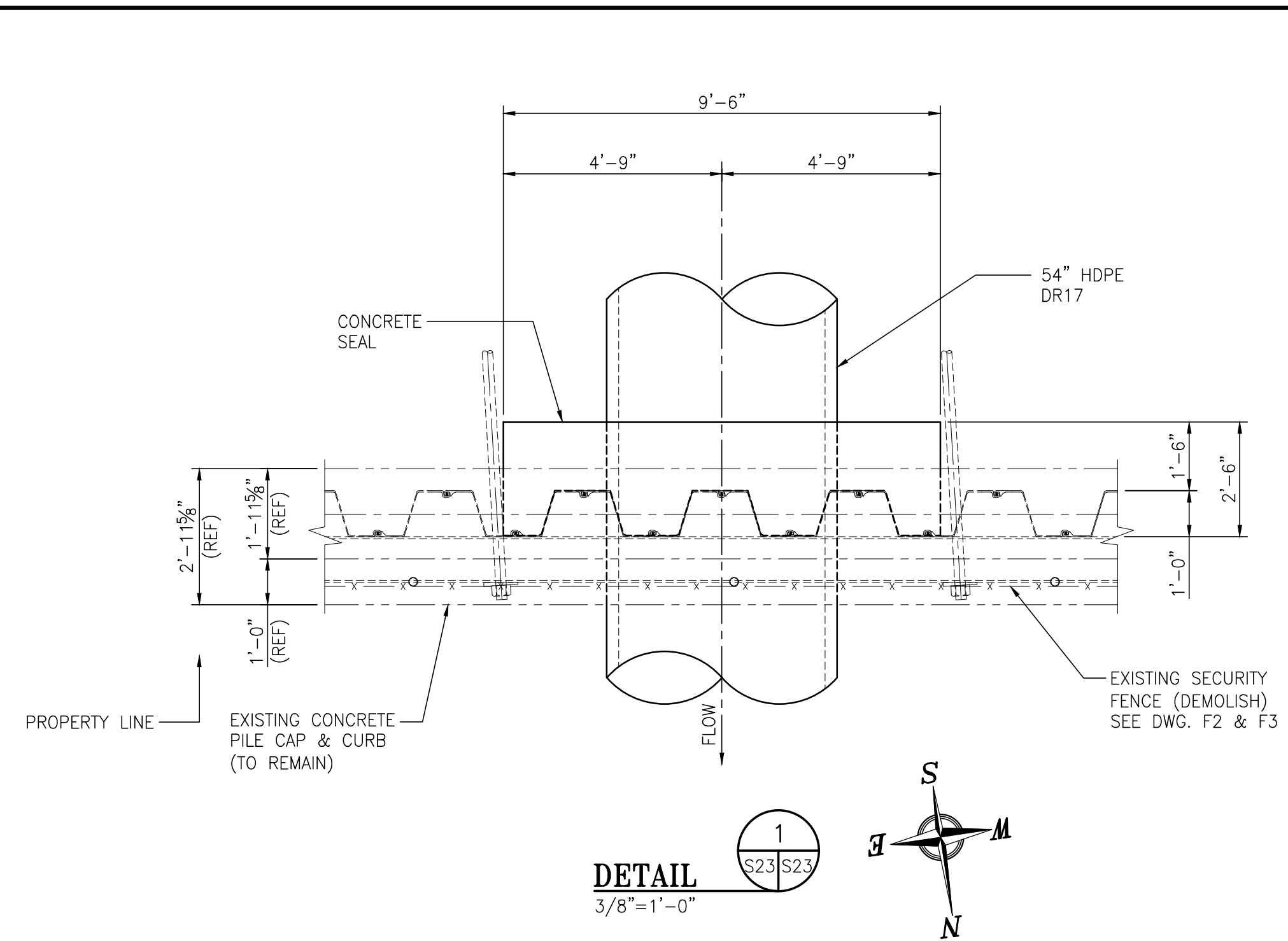
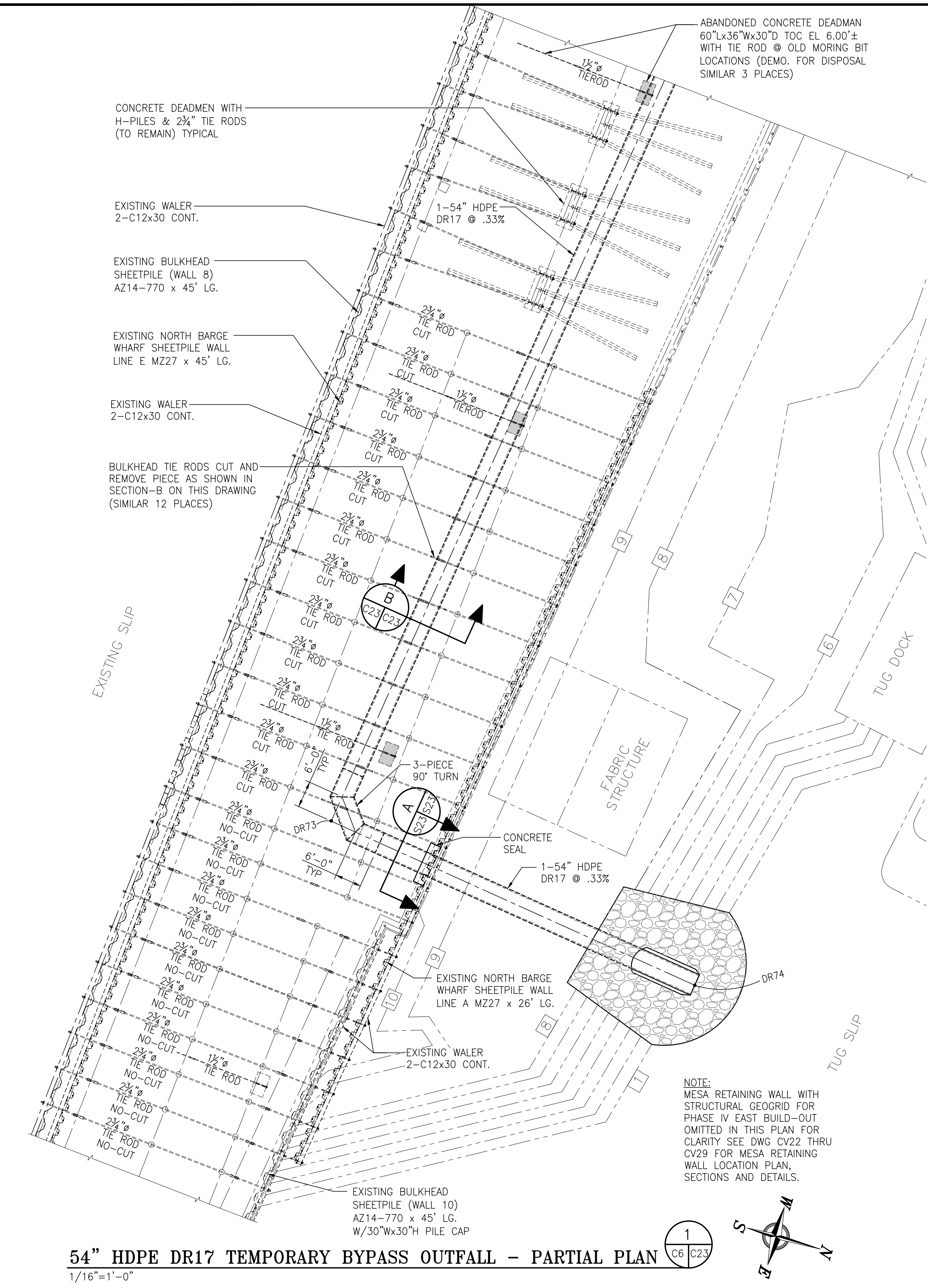
NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- EAST JORDAN IRON WORKS - FRAME V1600-4 AND GRATE V3600-4.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSR	04/05/24

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APMT PHASE IV YARD EXPANSION	
DRAINAGE STRUCTURE	
JUNCTION BOX "JB-13" DETAILS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: C20
DATE: 08/29/22	SCALE: AS NOTED
REVISION	REV: A



54" HDPE DR17 TEMPORARY BYPASS OUTFALL - PARTIAL PLAN  
1/16" = 1'-0"

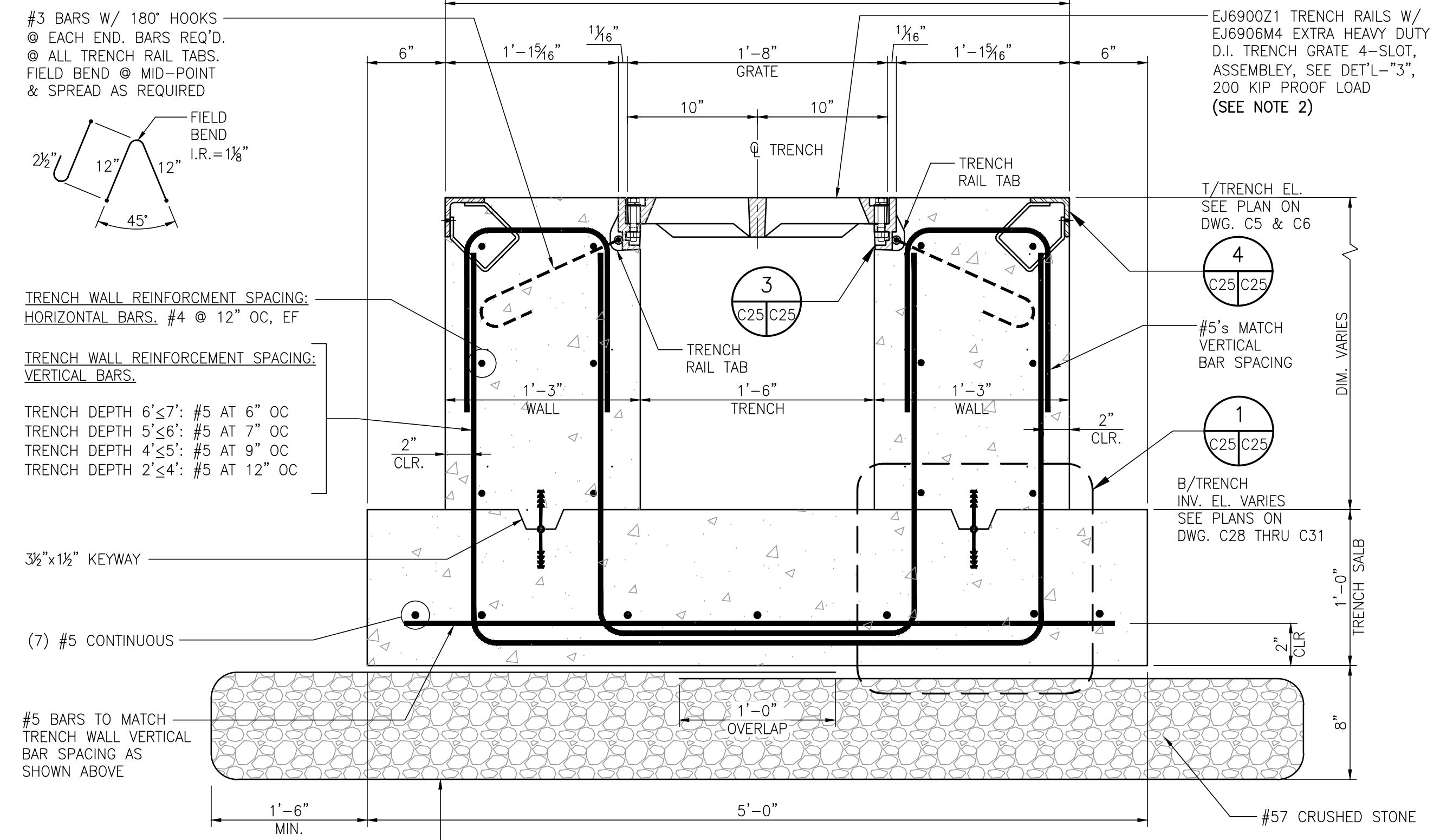
NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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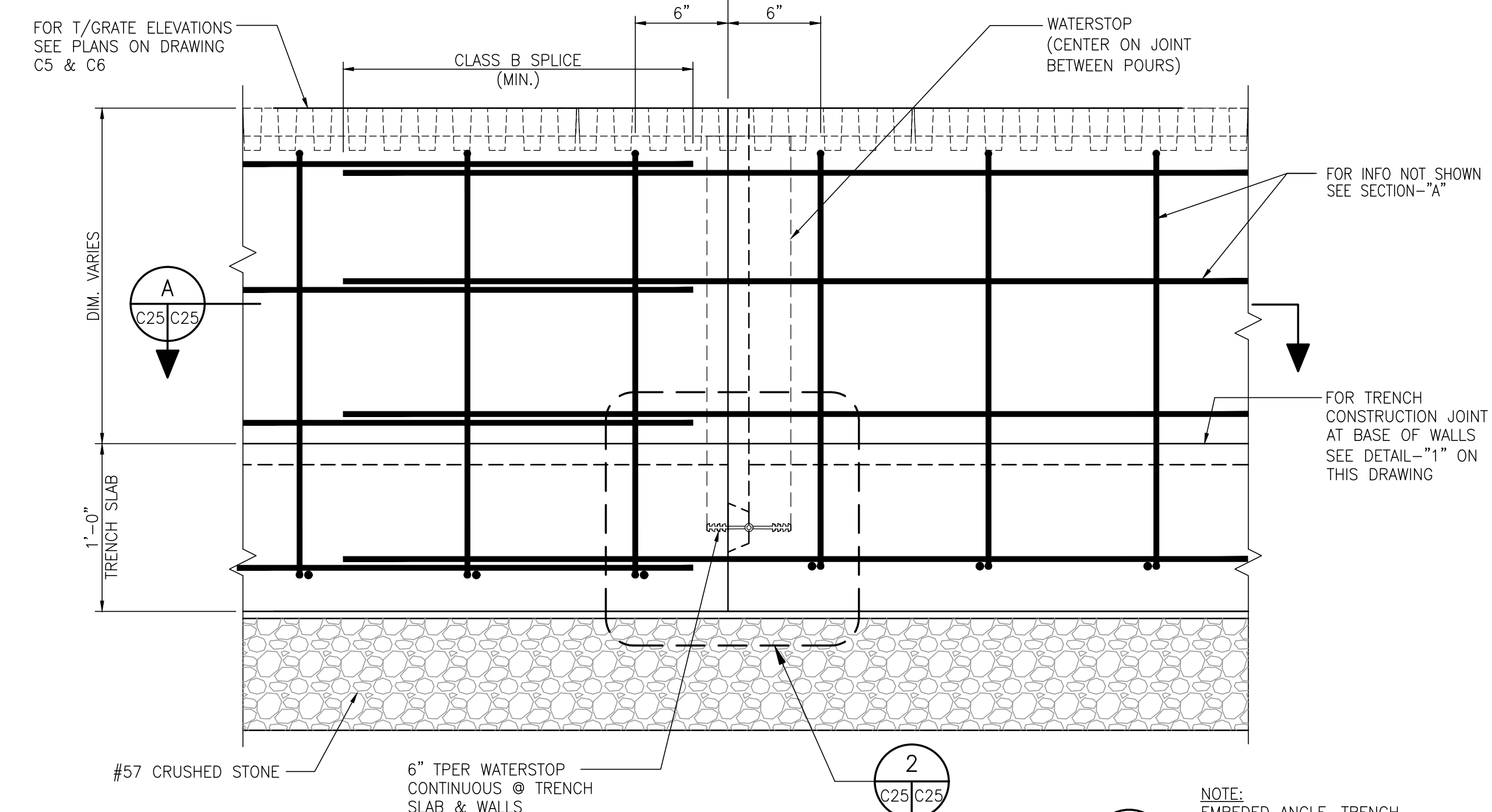
ASPA PROJECT NO: 11099 - TASK 1  
ASPA DWG NO:   
APMT PHASE IV YARD EXPANSION  
TEMPORARY BYPASS OUTFALL  
54 inch DR17 HDPE WALL PENETRATION DETAIL  
FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4484  
DWG NO: C23  
REV: A



**TYPICAL TRENCH SECTION** C28,C29,C30,&C31  
1 1/2"=1'-0"

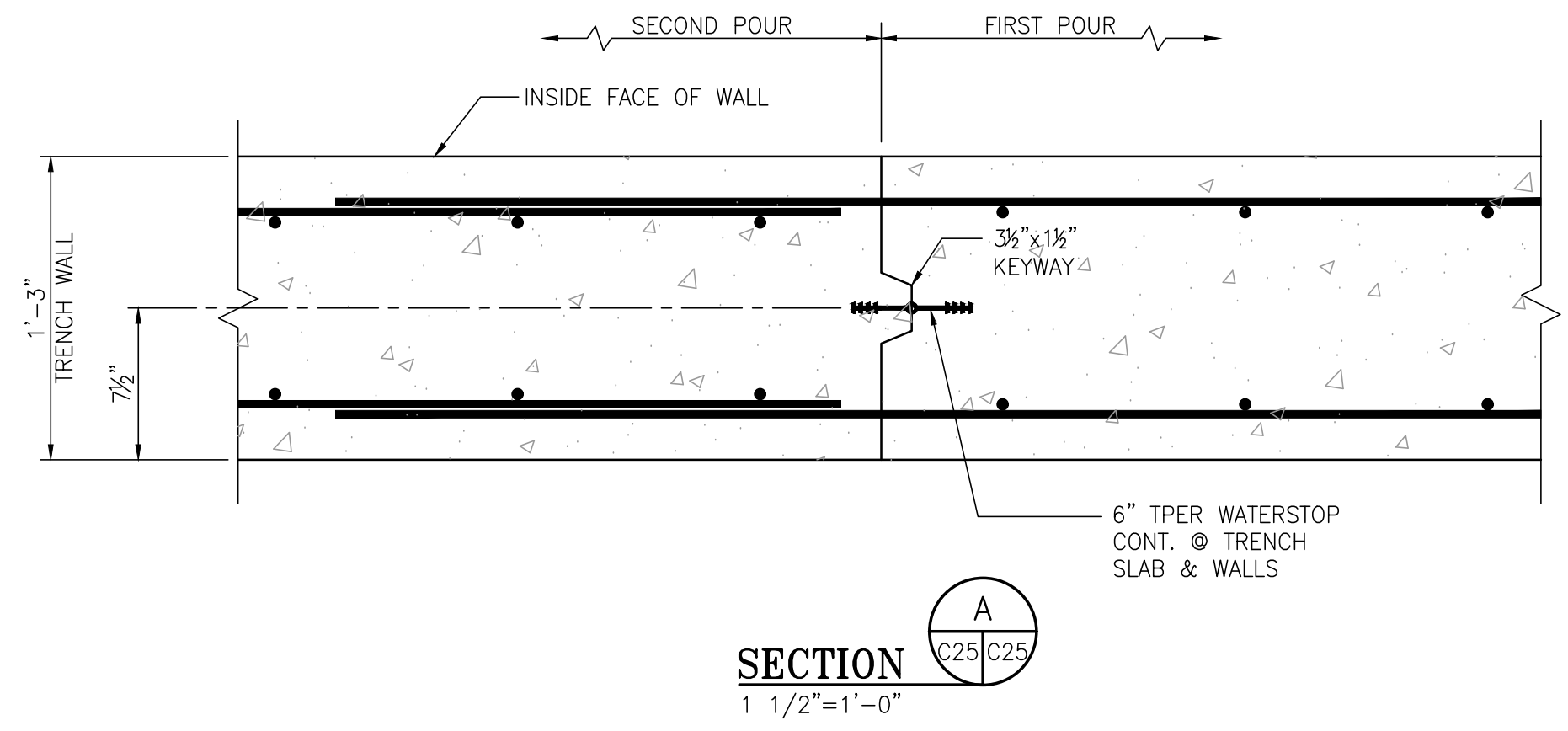
**NOTE:**  
SEE PLAN DRAWINGS C5 & C6 FOR T/TRENCH CASTING ELEVATIONS AND DWG C28 THRU C31 FOR B/TRENCH INVERT ELEVATIONS

AFTER PREPARING THE SUBGRADE, A LAYER OF MIRIFI 160N, OR EQUIVALENT SHOULD BE PLACED IN THE TRENCH PRIOR TO PLACING THE STONE. THE FABRIC SHOULD BE PLACED SUCH THAT IT SEPARATES THE STONE FROM THE SOIL AT ALL SIDES AND BOTTOM OF TRENCH

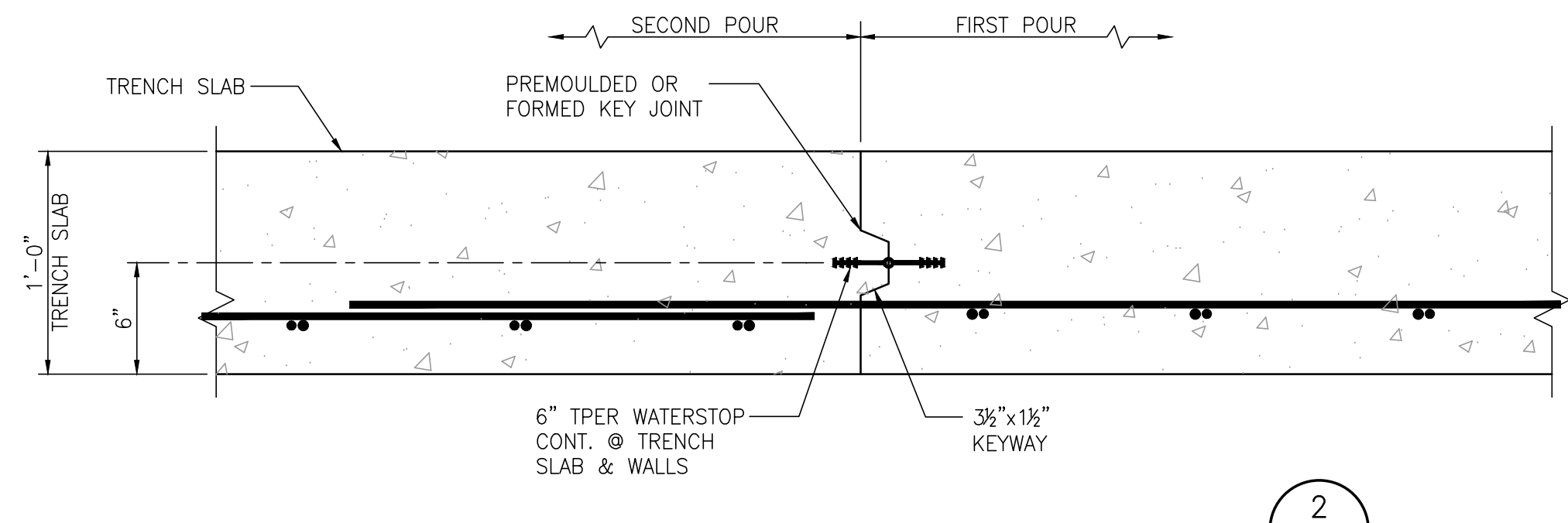


**ELEVATION @ TRENCH CONSTRUCTION JOINT** C28,C29,C30,&C31  
1 1/2"=1'-0"

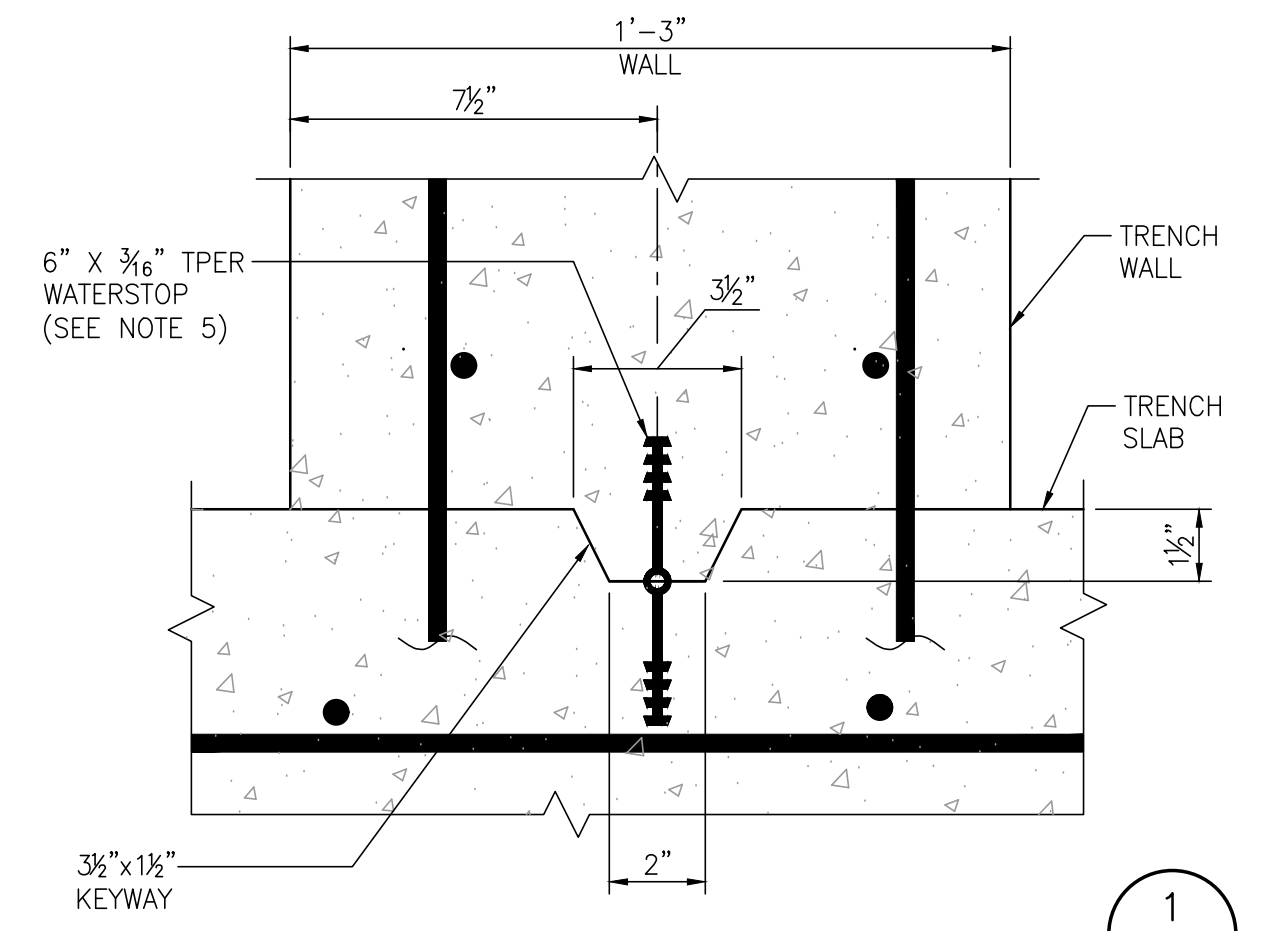
**NOTE:**  
EMBEDDED ANGLE, TRENCH GRATE RAIL & WATERSTOP AT BASE OF TRENCH WALL OMITTED IN SECTION-"C" FOR CLARITY



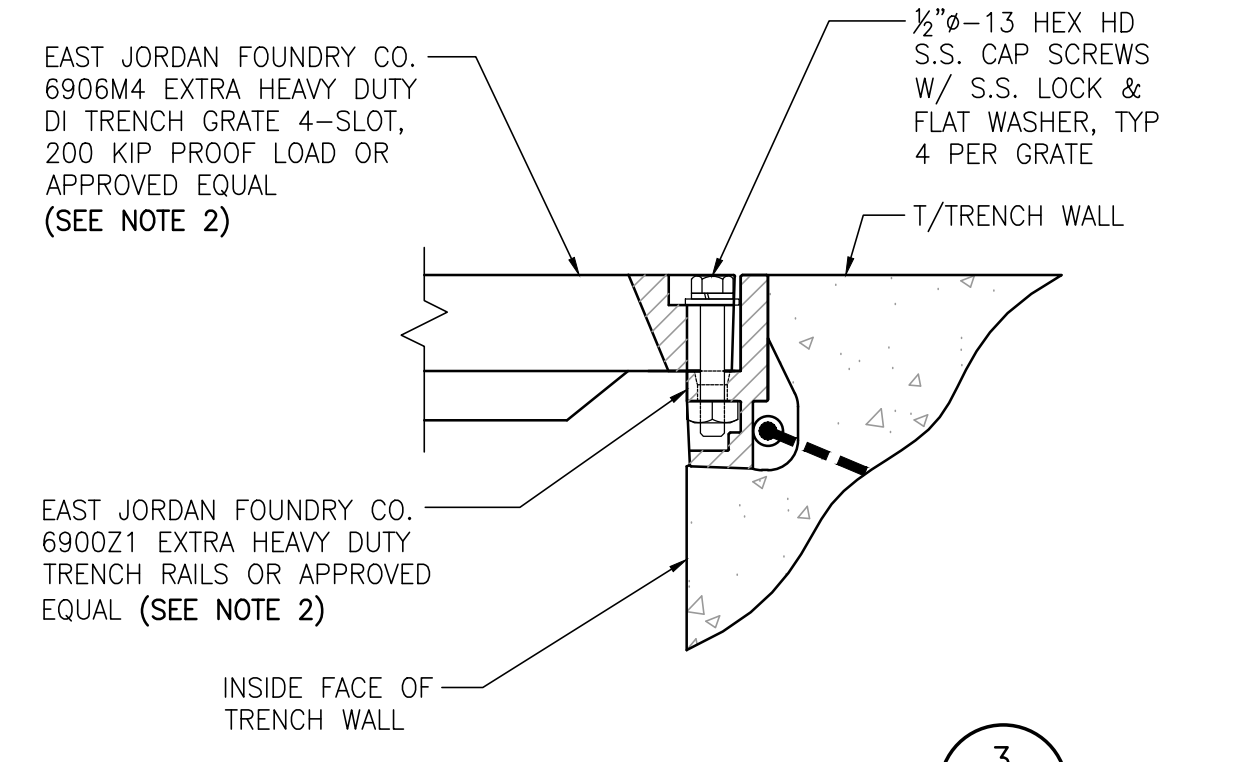
**SECTION A** C25/C25  
1 1/2"=1'-0"



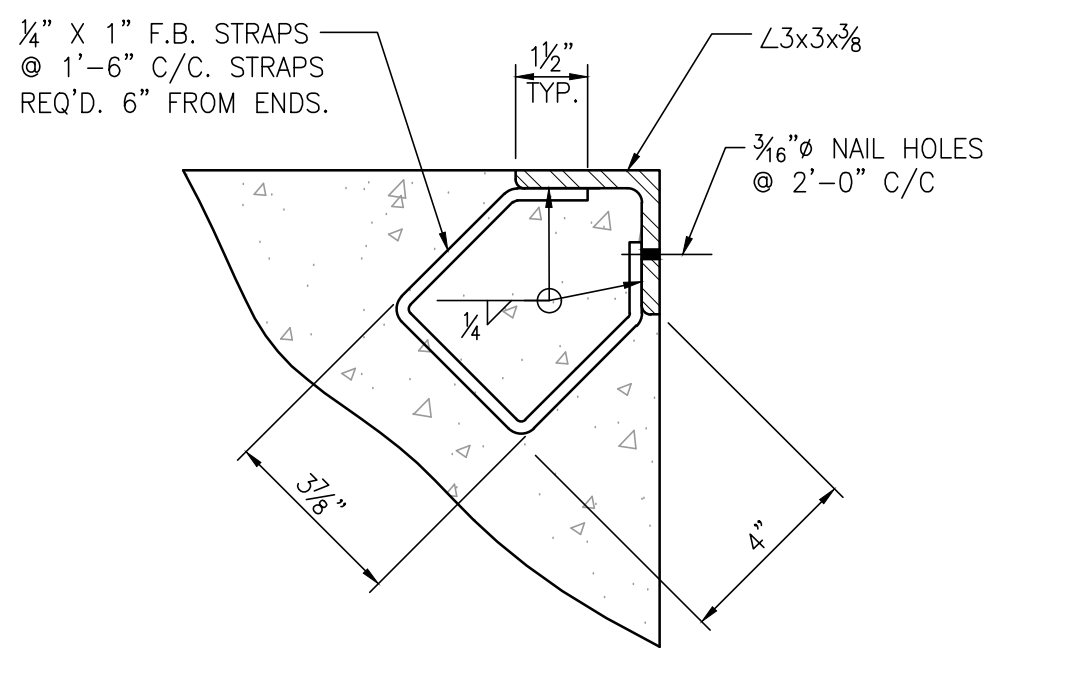
**TRENCH SLAB CONSTRUCTION JOINT - DETAIL** 2 C25/C25  
1 1/2"=1'-0"



**TRENCH WALL CONSTRUCTION JT. DETAIL** 1 C25/C25  
3"=1'-0"

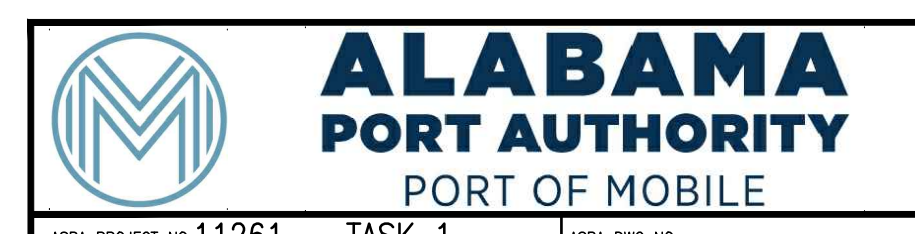
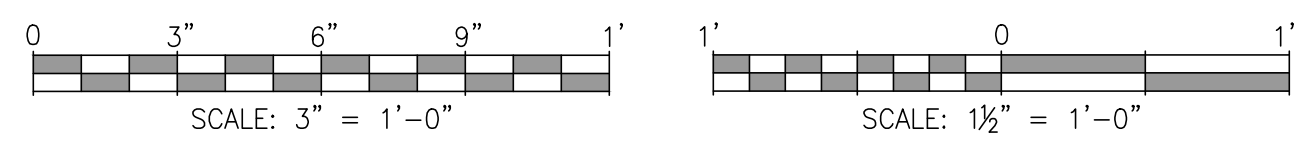


**TRENCH GRATE & FRAME DETAIL** 3 C25/C25  
3"=1'-0"



**EMBEDDED ANGLE DETAIL** 4 C25/C25  
3"=1'-0"

**NOTE:**  
EMBEDDED ANGLES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.



ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

- NOTES**
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - CAUTION:** DO NOT DISASSEMBLE BOLTED GRATES CHECK FRAME WIDTH INSIDE TO INSIDE BEFORE SETTING SECTIONS IN CONCRETE.
  - ALL JOINTS IN WATERSTOPS ARE TO BE WELDED PER MANUFACTURER'S SPECIFICATIONS.
  - CONSTRUCTION JOINTS SHALL BE CONSTRUCTED USING DETAILS 1, 2 AND 3 AS SHOWN ON THIS DRAWING.
  - WATERSTOP SHALL BE 6" X 3/8" THERMOPLASTIC ELASTOMERIC RUBBER (TPER) RIBBED WITH CENTER BULB (STYLE #619 BLACK) AS MANUFACTURED BY WESTEC BARRIERS TECHNOLOGIES.

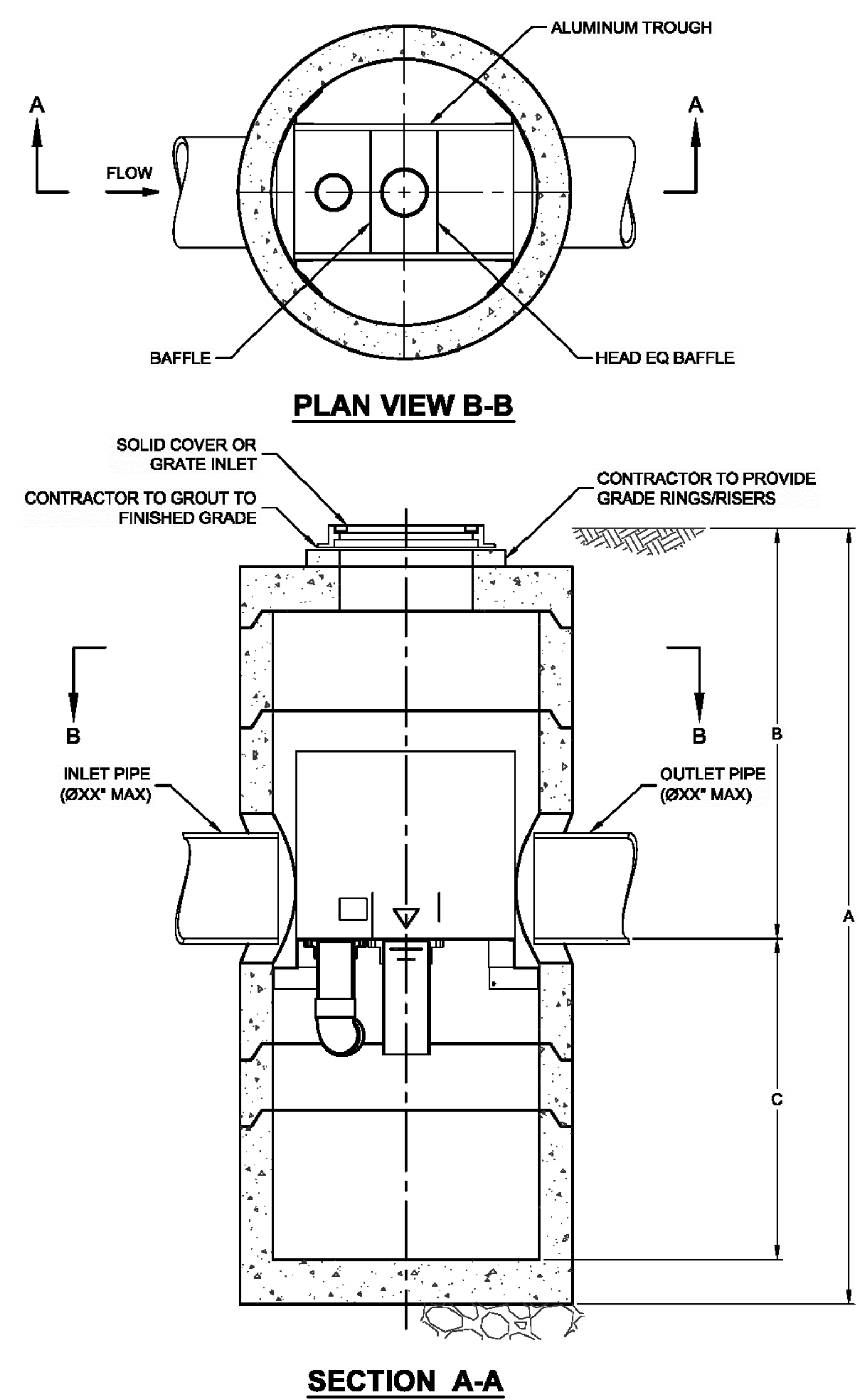
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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DRAWN: RST  
CK'D: MED  
APPD: RSG  
DATE: 10/09/22  
SCALE: NOTED

APMT PHASE IV YARD EXPANSION	
DRAINAGE STRUCTURE	
TYPICAL TRENCH SECTIONS & DETAILS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: C25
REV: A	

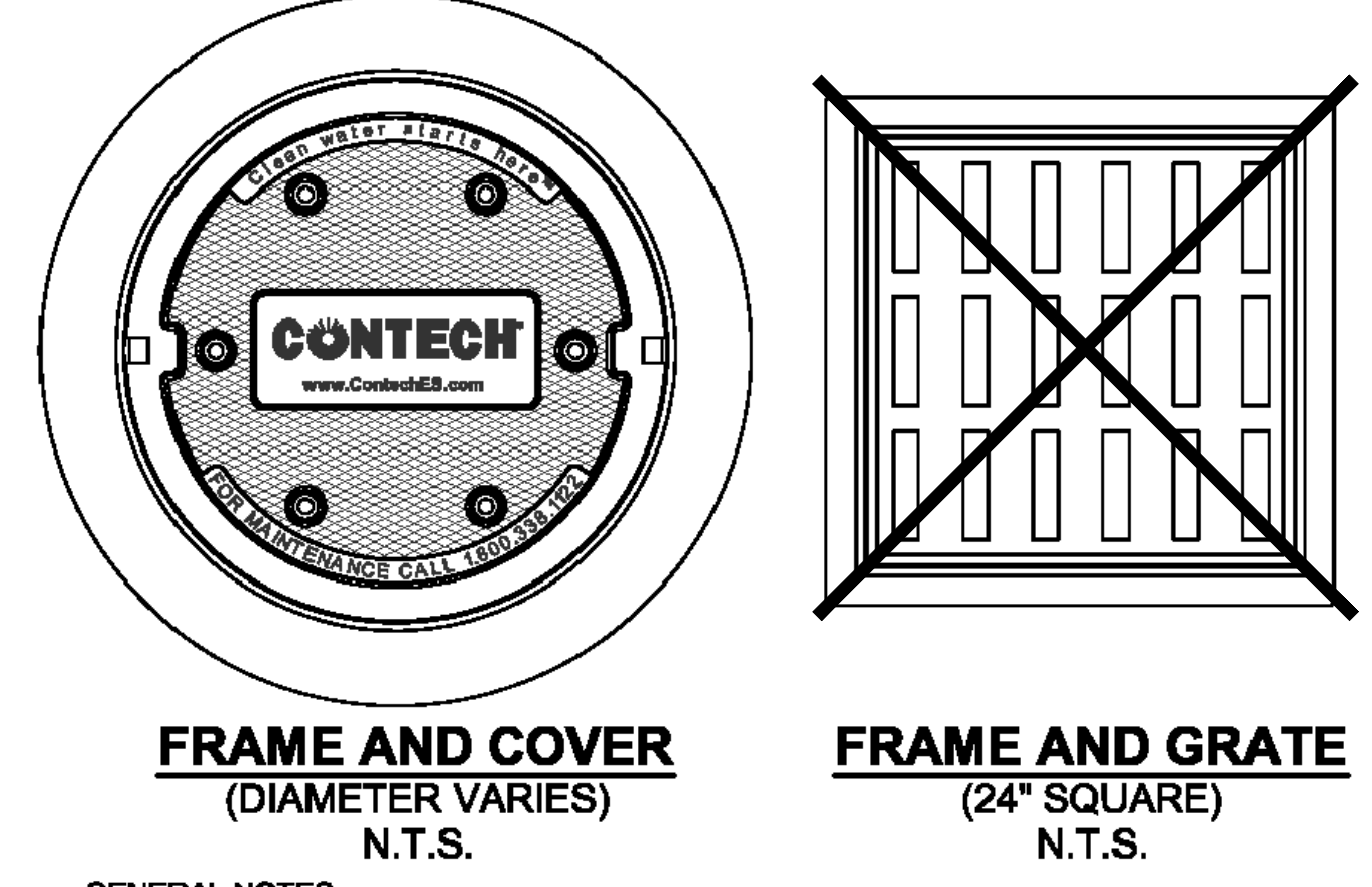
I:\STORMWATER\COMMISSIONS\26 VORTSENTRY HS\40 STANDARD DRAWINGS\DWG\HS-DTL.DWG 5/16/2014 4:31 PM



**VortSentry**  
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,961,114; 7,296,682; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

VORTSENTRY HS DESIGN NOTES	
VSHS RATED TREATMENT CAPACITY IS SHOWN IN THE TABLE BELOW, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY VARIES. CONTACT YOUR CONTECH REPRESENTATIVE FOR ADDITIONAL INFORMATION.	
THE STANDARD SOLID COVER CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW.	
CONFIGURATION OPTION DESCRIPTION	
	GRATE INLET (NO INLET PIPE)
	GRATE INLET WITH INLET PIPE

VORTSENTRY HS GENERAL INFORMATION														
Model	Manhole Diameter (ID)		Total Treatment Flow Rate		Typical Total Distance Rim to Outside Bottom A		Typical Distance Rim to Invert B		Typical Depth Below Invert (inside) C		Approximate Minimum Distance Rim to Invert		Maximum Pipe Diameter (ID)	
	FT	mm	CFS	L/S	FT	m	FT	m	FT	mm	FT	m	IN	mm
HS36	3	900	0.55	15.6	10.16	3.10	4.08	1.24	5.58	1702	3.00	0.91	18	450
HS48	4	1200	1.20	34.0	13.25	4.04	8.00	1.83	6.75	2057	4.00	1.22	24	600
HS60	5	1500	2.20	62.3	15.13	4.61	8.50	1.98	7.96	2426	4.82	1.47	30	750
HS72	6	1800	3.70	104.8	16.56	5.05	6.75	2.06	9.15	2788	5.59	1.70	36	900
HS84	7	2100	5.60	158.6	18.85	5.75	7.75	2.36	10.35	3156	5.00	1.52	42	1050
HS96	8	2400	8.10	229.4	20.87	6.36	8.50	2.59	11.54	3518	6.91	2.11	48	1200



SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS)		*	
PEAK FLOW RATE (CFS)		*	
RETURN PERIOD OF PEAK FLOW (YRS)		*	
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
SEE SPECIAL NOTES			
* PER ENGINEER OF RECORD			

**GENERAL NOTES**

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. [www.contechES.com](http://www.contechES.com)
- VORTSENTRY HS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.

~~STRUCTURE SHALL MEET ACI-318 AND CASTINGS SHALL MEET ASTM A536 WITH AIRPORT EXTRA HEAVY DUTY LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.~~

**INSTALLATION NOTES**

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTSENTRY HS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**CONTECH**  
 ENGINEERED SOLUTIONS LLC  
[www.contechES.com](http://www.contechES.com)  
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069  
 800-338-1122 513-645-7000 513-645-7993 FAX

VORTSENTRY HS  
 STANDARD DETAIL

**SPECIAL NOTES:**

- STRUCTURE SHALL MEET ACI-318 SPECIFICATIONS FOR DESIGN LOADS LISTED ON DRAWING G3 AND CASTINGS SHALL MEET ASTM A536 WITH AIRPORT EXTRA HEAVY DUTY LOAD RATING. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DESIGN DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA FOR REVIEW PRIOR TO FABRICATION.
- BEDDING UNDER UNITS SHALL CONSIST OF 18" THICK COMPACTED (95% MODIFIED PROCTOR) #57 CRUSHED STONE. CRUSHED AGGREGATE SHALL EXTEND MIN. 6" OUTSIDE OF MANHOLE WALL.

**ALABAMA PORT AUTHORITY**  
 PORT OF MOBILE  
 ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

**APTIM**  
 PORT SERVICES, LLC

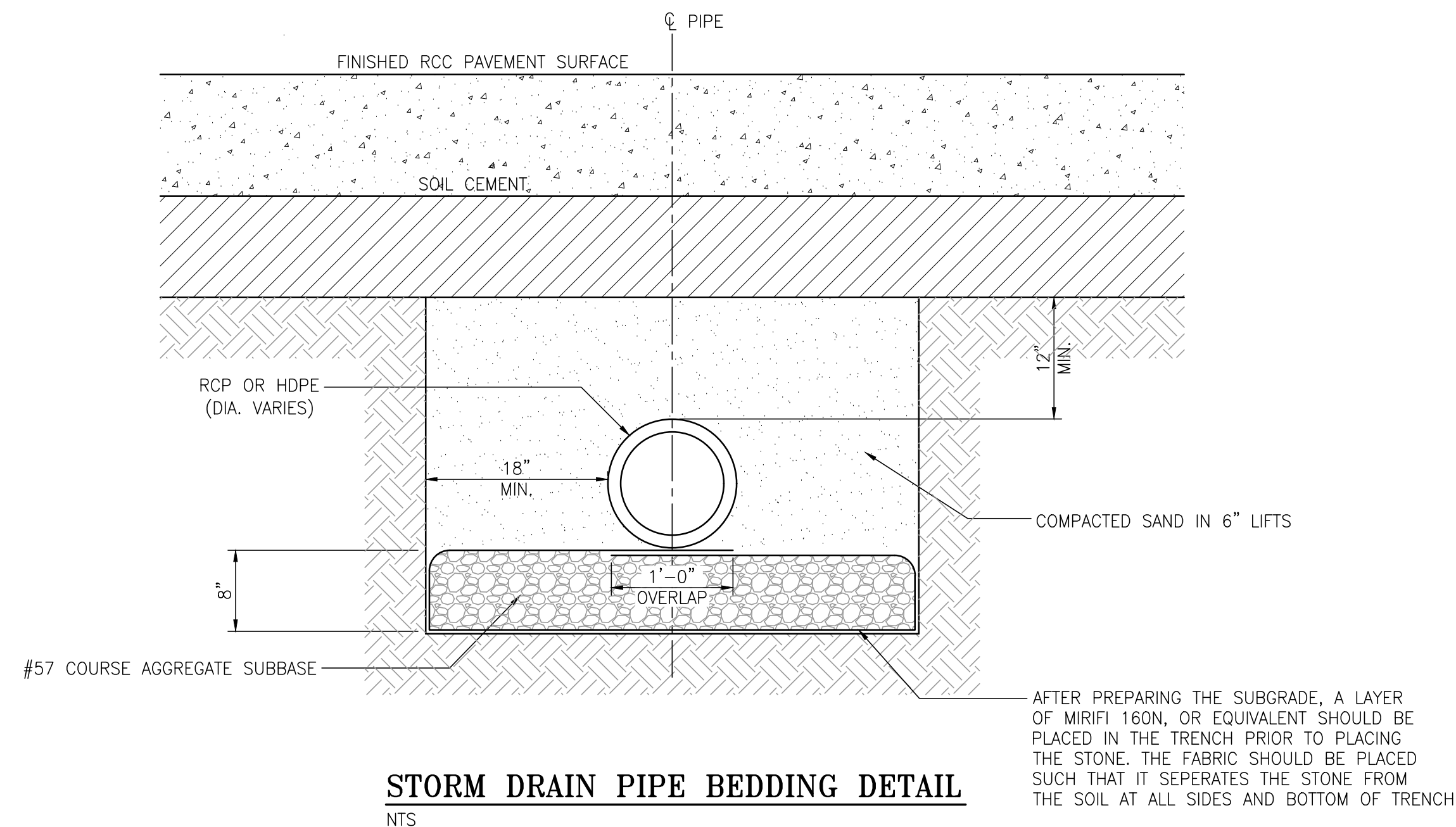
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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/04/22 SCALE: NONE

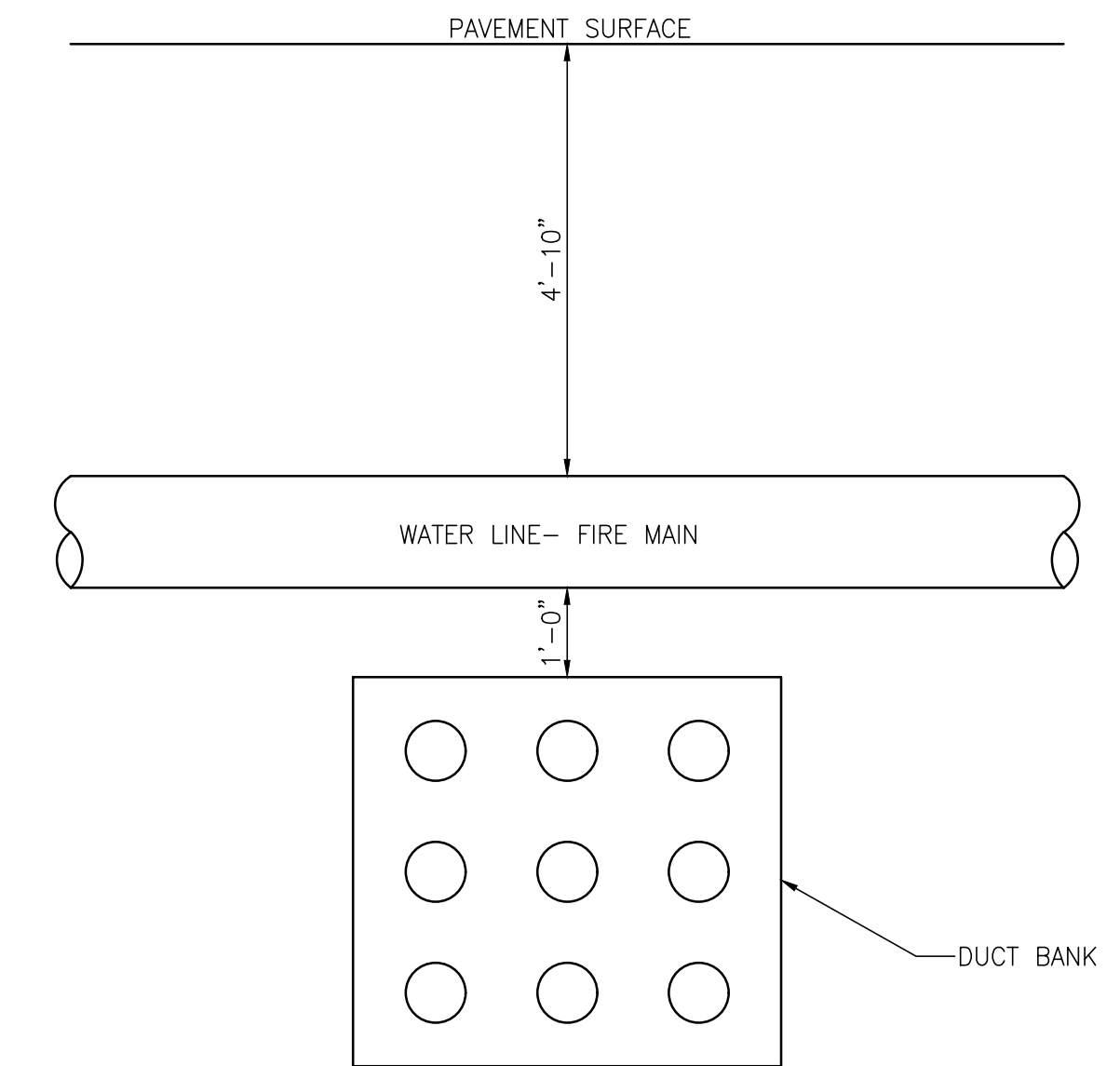
APMT PHASE IV YARD EXPANSION  
 DRAINAGE STRUCTURE  
 WATER QUALITY UNIT DETAILS

FOR: ALABAMA PORT AUTHORITY

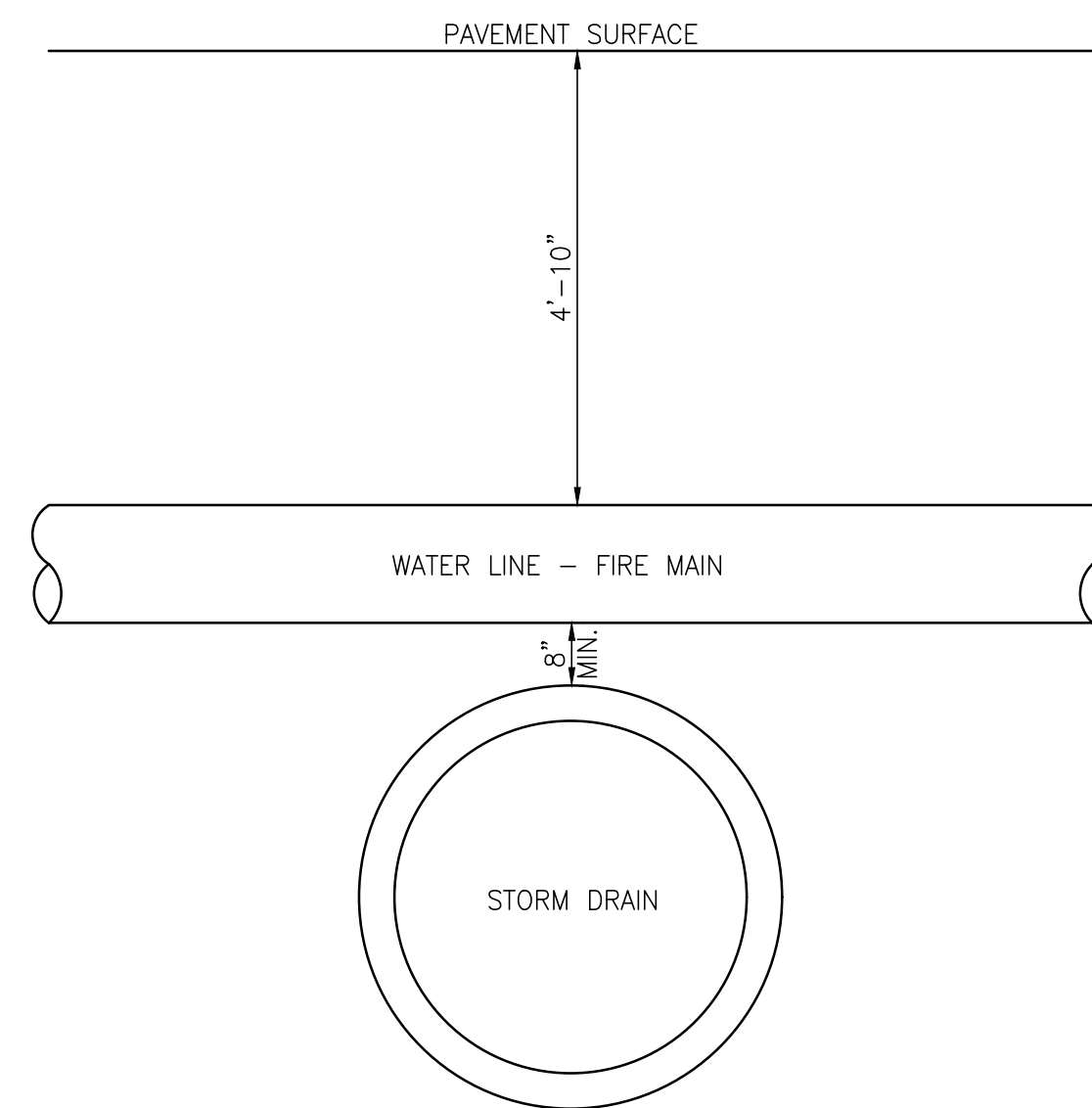
PROJECT NO: 4484 DWG NO: C26 REV: A



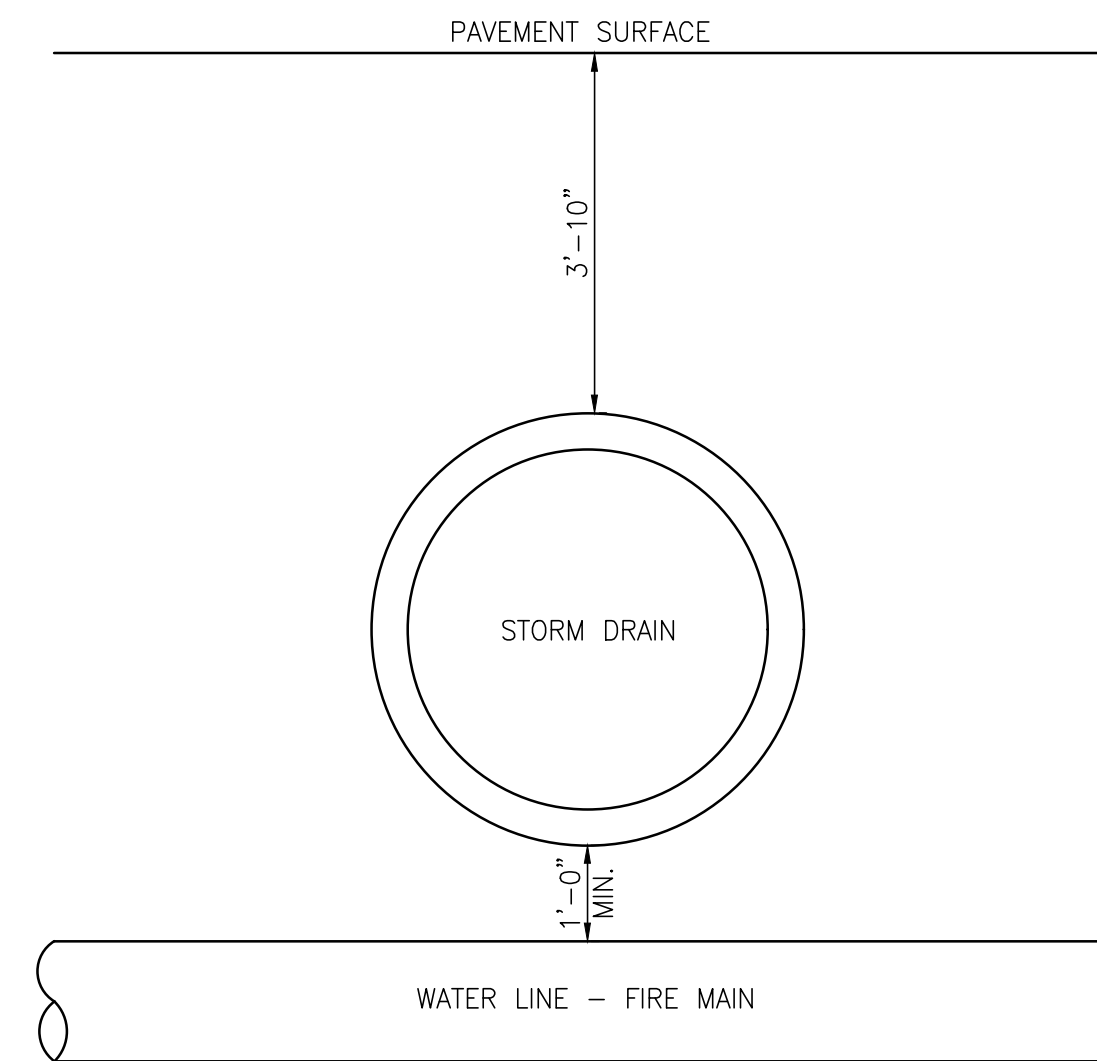
**STORM DRAIN PIPE BEDDING DETAIL**  
NTS



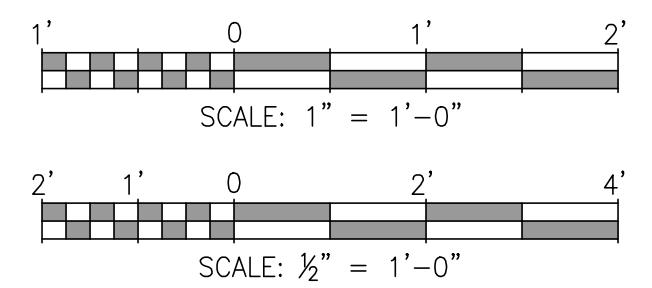
**TYPICAL DUCT BANK/FIRE MAIN CROSSING DETAIL**  
1/2"=1'-0"



**TYPICAL STORM DRAIN/FIRE MAIN CROSSING DETAIL**  
1/2"=1'-0"




**TYPICAL STORM DRAIN/FIRE MAIN CROSSING DETAIL**  
1/2"=1'-0"




NOTES	
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.	
2. SEE DRAWING C5 FOR NODE COORDINATE SCHEDULES & LEGEND	

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	WMB	MED	RSG



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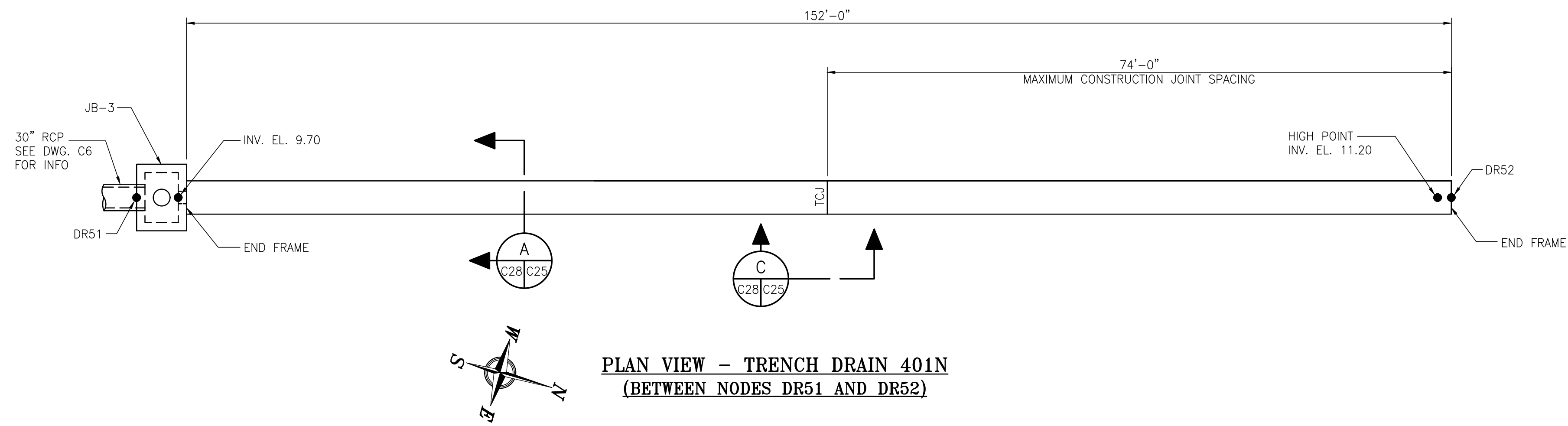
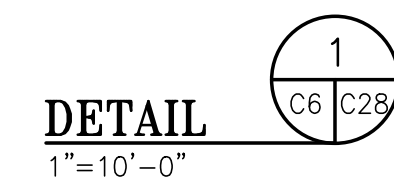
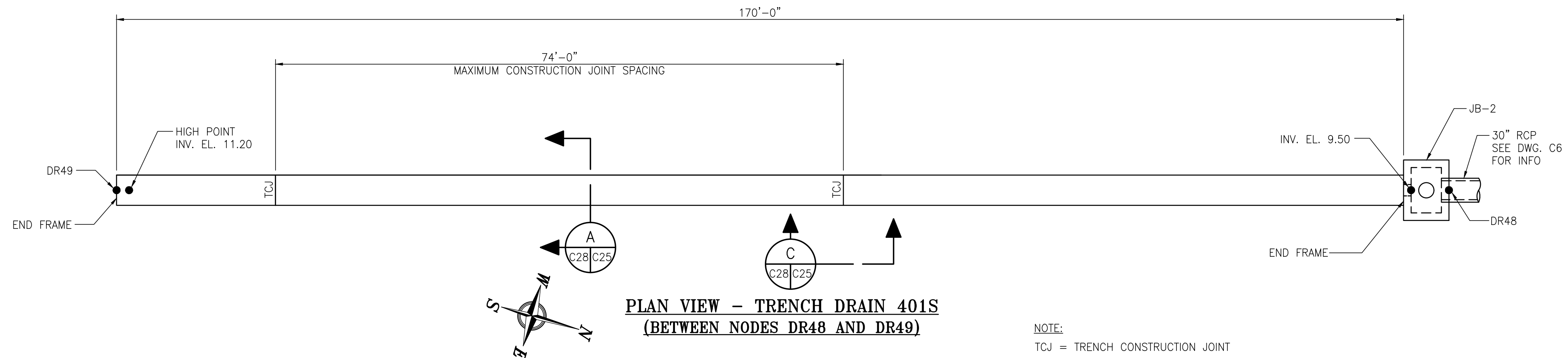
**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 1    ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
STORM DRAIN INTERFERENCE &  
PIPE BEDDING DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484    DWG NO: C27    REV: A



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

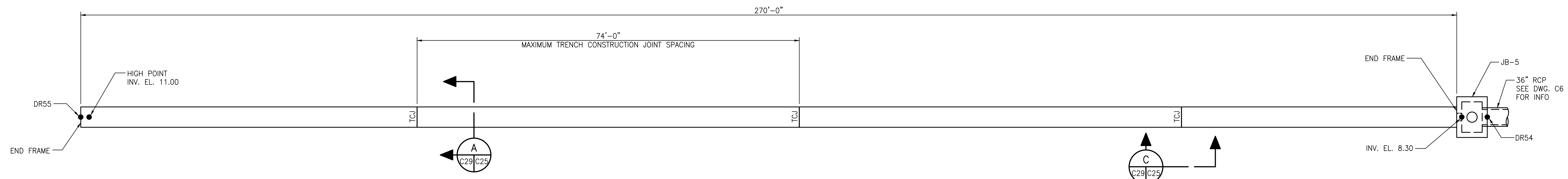
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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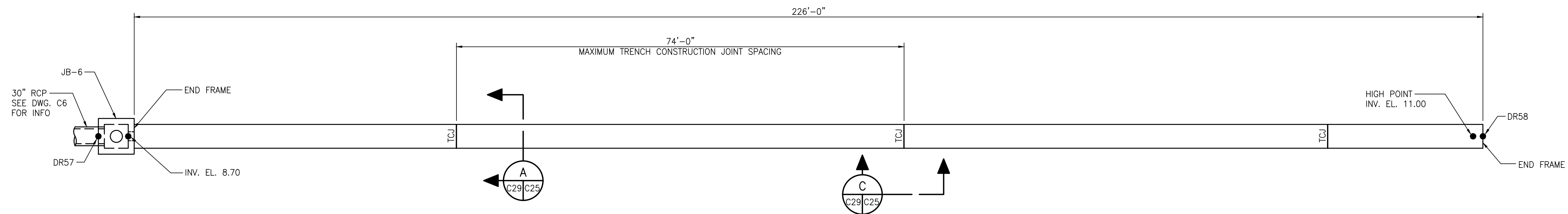
DRAWN: RST CK'D: MED APPD: RSG DATE: 10/09/22 SCALE: NOTED

APMT PHASE IV YARD EXPANSION	
DRAINAGE STRUCTURE	
TRENCH DRAIN PLANS (SHEET 1 OF 4)	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: C28
REV: A	



**PLAN VIEW - TRENCH DRAIN 402S**  
(BETWEEN NODES DR54 AND DR55)

NOTE:  
TCJ = TRENCH CONSTRUCTION JOINT



**PLAN VIEW - TRENCH DRAIN 402N**  
(BETWEEN NODES DR57 AND DR58)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.



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APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
TRENCH DRAIN PLANS (SHT 2 OF 4)

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: C29

REV: A

REFERENCE DRAWINGS

NO.

REVISION

DRAWN

CK'D

APPD

DATE

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CK'D: MED

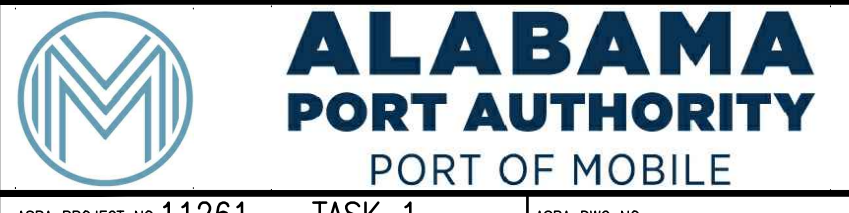
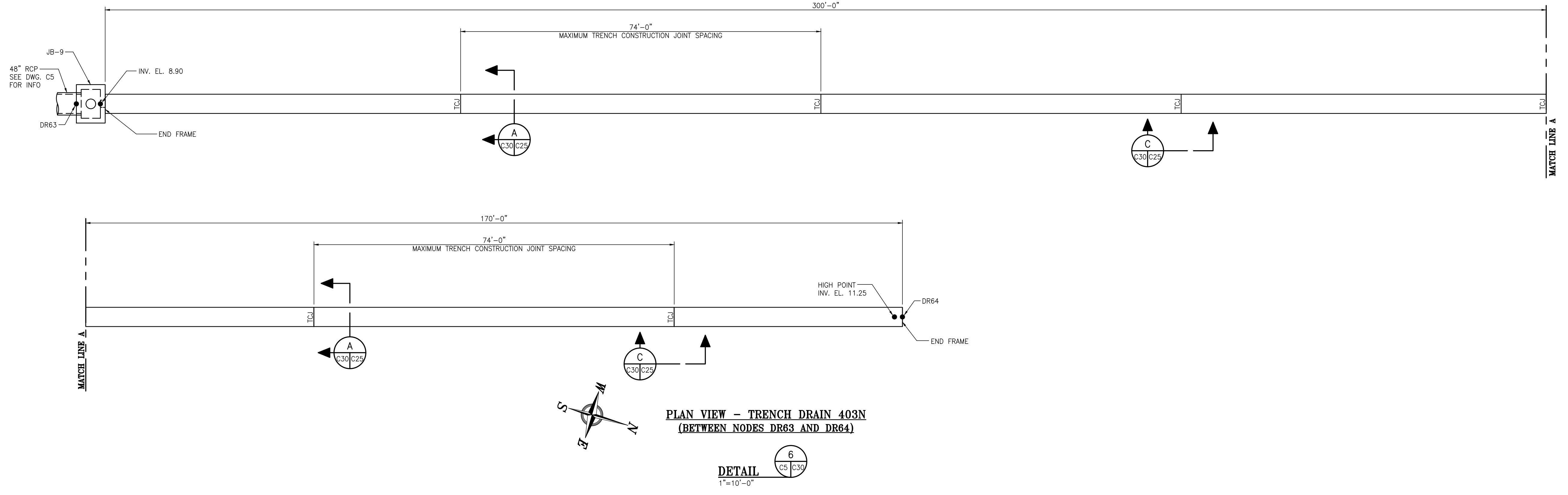
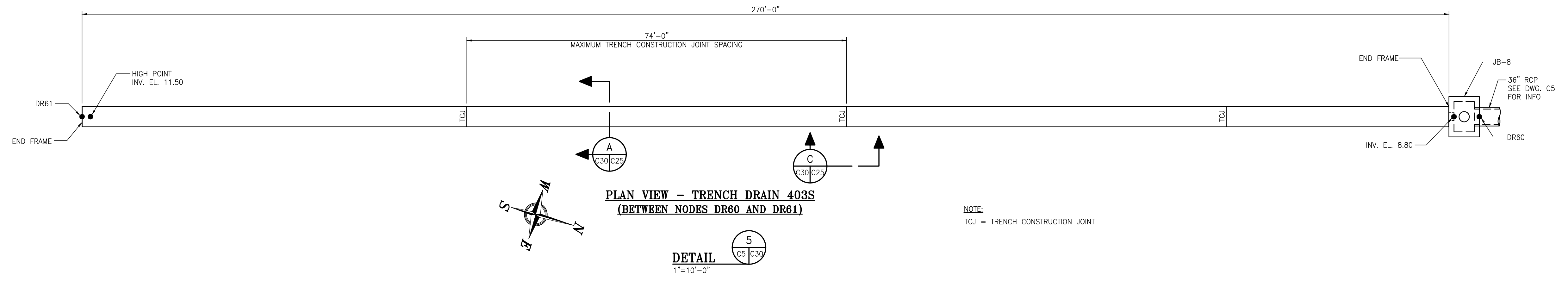
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DATE: 10/09/22

SCALE: NOTED

A	ISSUED FOR BID	RST	MED	RSG	04/05/24
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ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

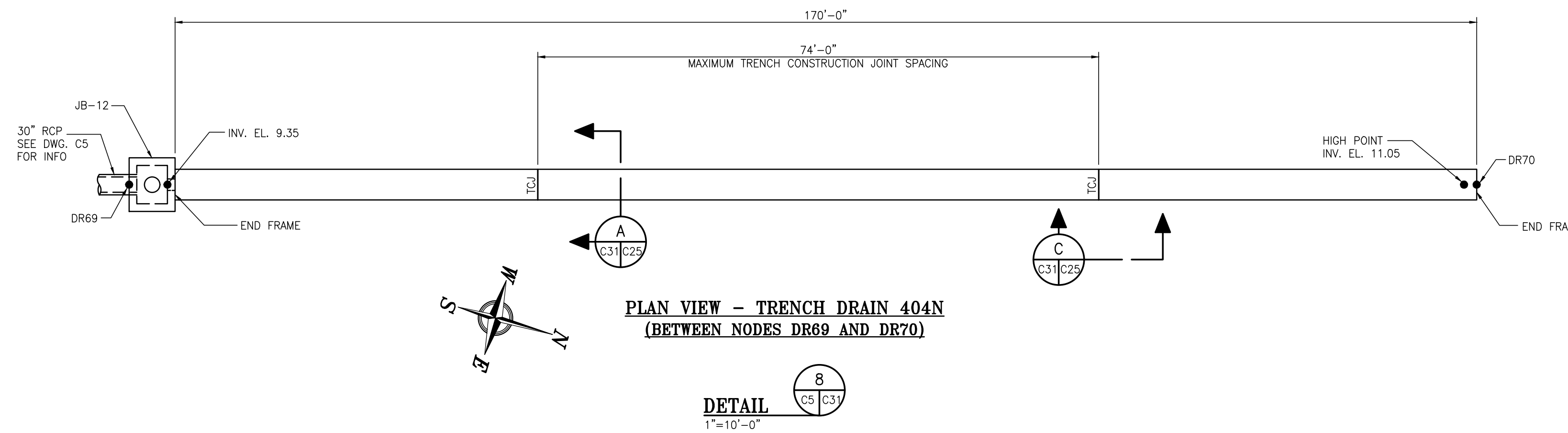
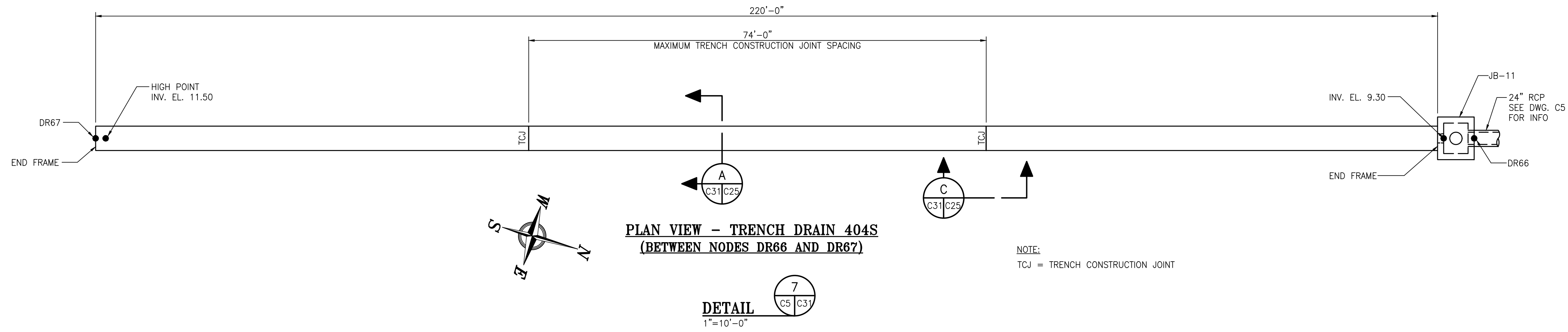
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DRAWN: RST | CK'D: MED | APPD: RSG | DATE: 10/09/22 | SCALE: NOTED

APMT PHASE IV YARD EXPANSION  
DRAINAGE STRUCTURE  
TRENCH DRAIN PLANS (SHT 3 OF 4)

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: C30 | REV: A



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES	
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.	

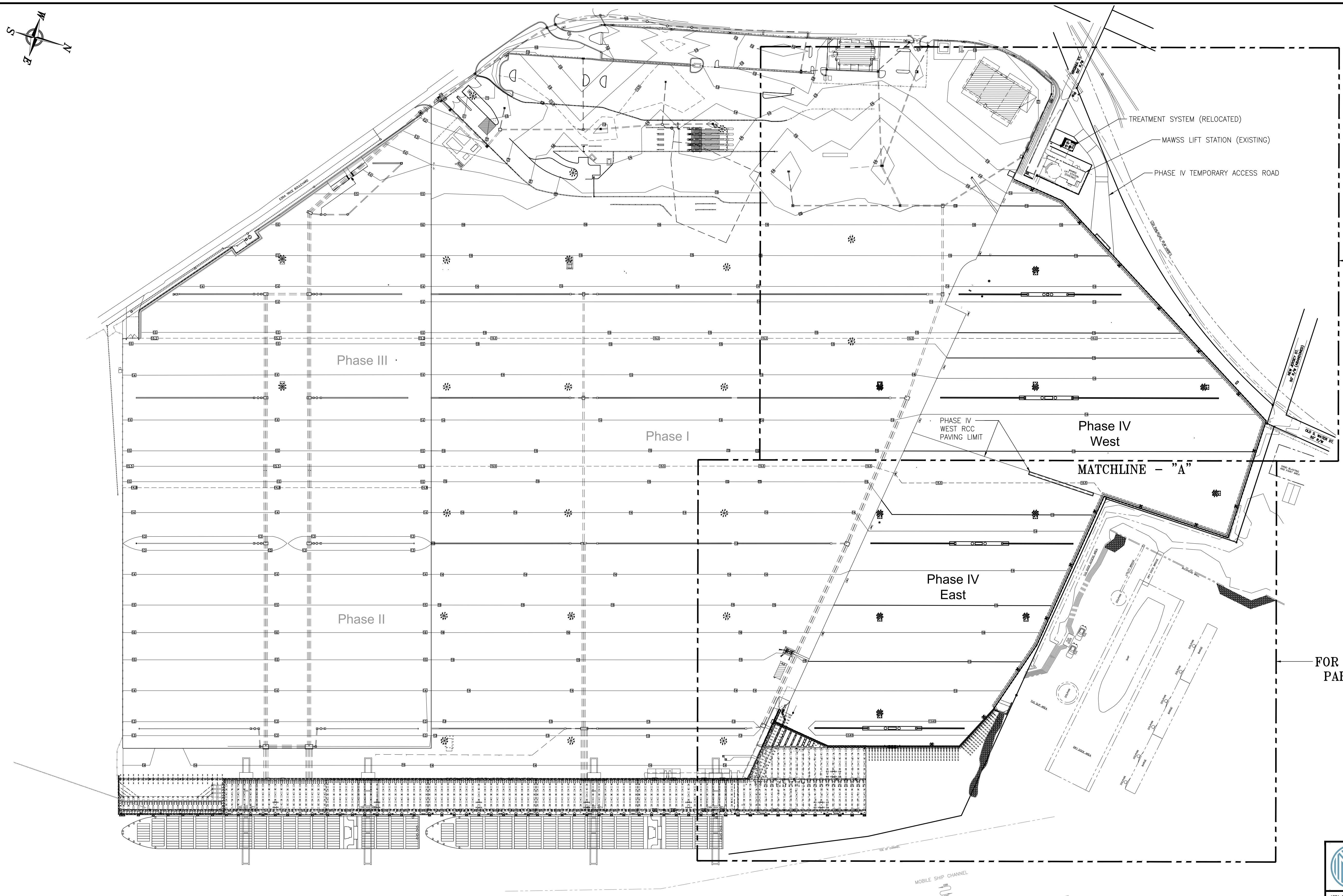
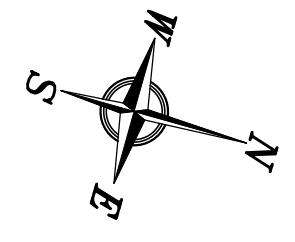
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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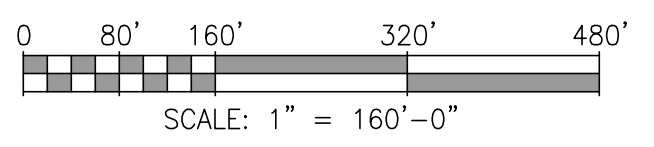
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APMT PHASE IV YARD EXPANSION DRAINAGE STRUCTURE TRENCH DRAIN PLANS (SHT 4 OF 4)	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: C31
REV: A	



FOR CONTAINER YARD PAVING  
PARTIAL PLAN SEE DWG P2

FOR CONTAINER YARD PAVING  
PARTIAL PLAN SEE DWG P3



NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWING G6 FOR PROJECT LIMITS.

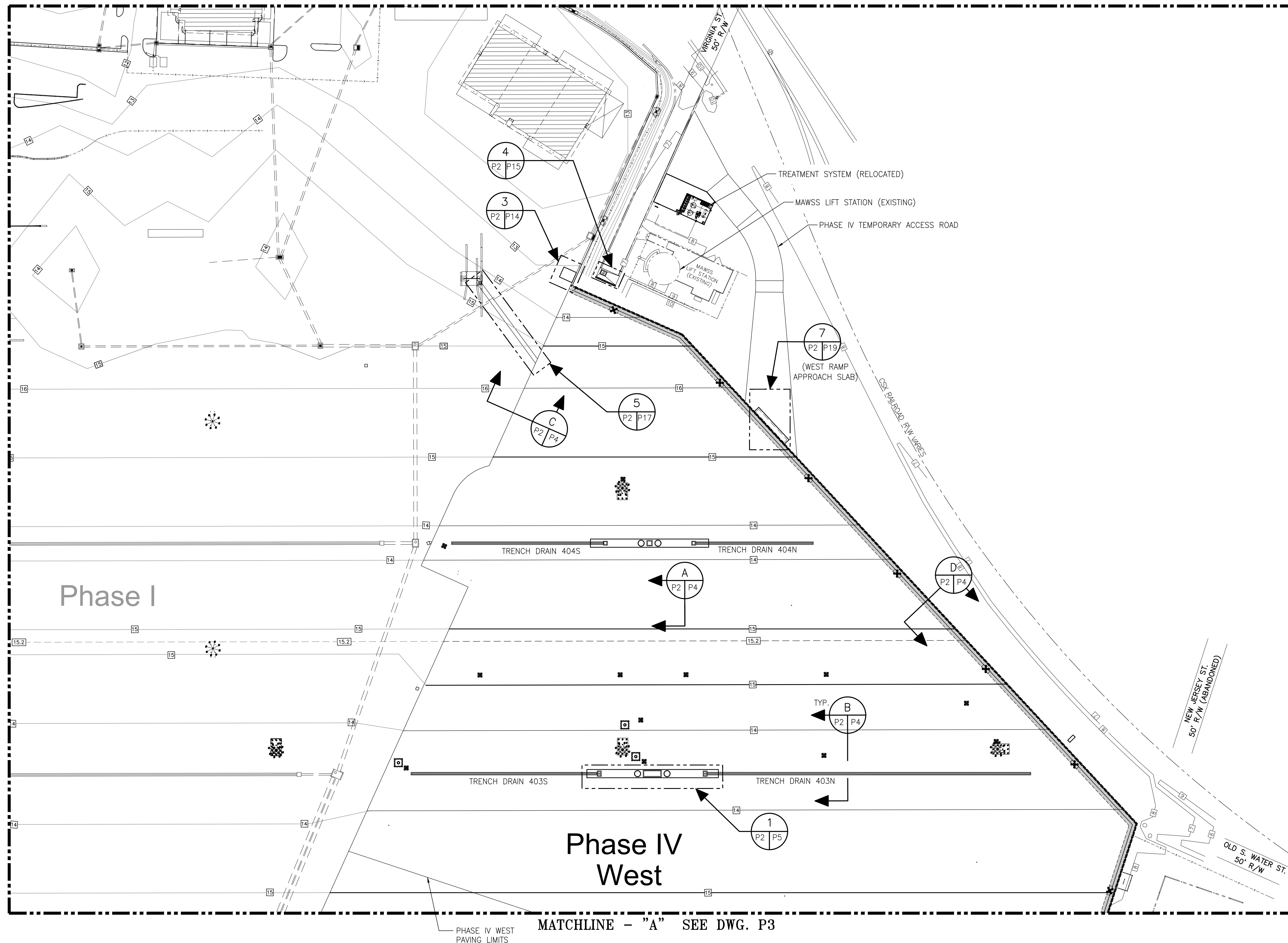
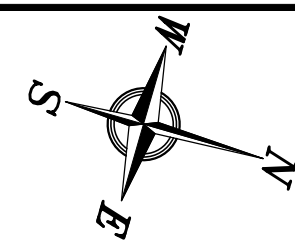
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		A ISSUED FOR BID	04/05/24			

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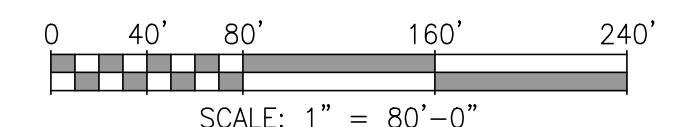
DRAWN: WMB CK'D: MED APPD: RSG DATE: 07/27/23 SCALE: 1"=160'

ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

APMT PHASE IV YARD EXPANSION	
CONTAINER YARD PAVING	
OVERALL PLAN	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: P1
REV: A	



LEGEND:	
SYMBOL:	DESCRIPTION:
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	SPECIAL CONTOUR
	RCP STORM DRAIN (UNO)
	PROPERTY OR STREET R/W BOUNDARY LINE
	SPOT ELEVATION OR TOP OF TRENCH GRATE, INLET GRATE OR MANHOLE LID ELEVATION
	HIGHMAST LIGHT POLE
	PERIMETER LIGHT POLE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

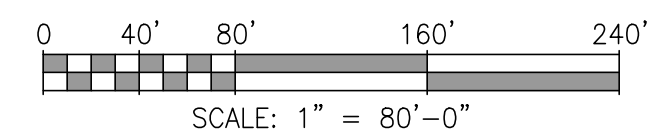
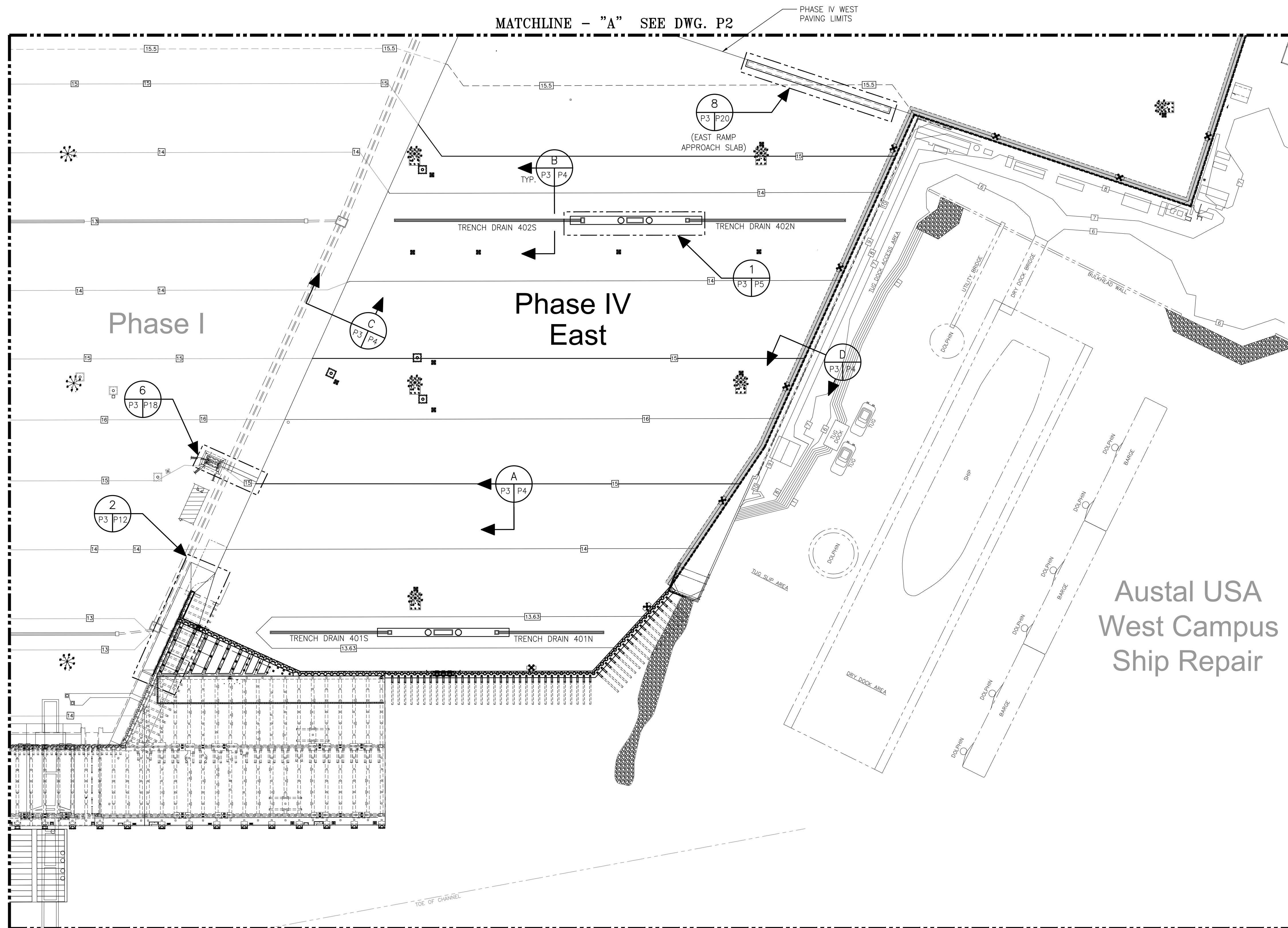
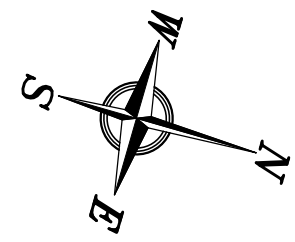
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DRAWN: WMB CK'D: MED APPD: RSG DATE: 07/27/23 SCALE: 1"=80'

APMT PHASE IV YARD EXPANSION  
CONTAINER YARD PAVING  
PARTIAL PLAN (SHT. 1 OF 2)

FOR: ALABAMA PORT AUTHORITY


PROJECT NO: 4484 DWG NO: P2 REV: A



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES	
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.	

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

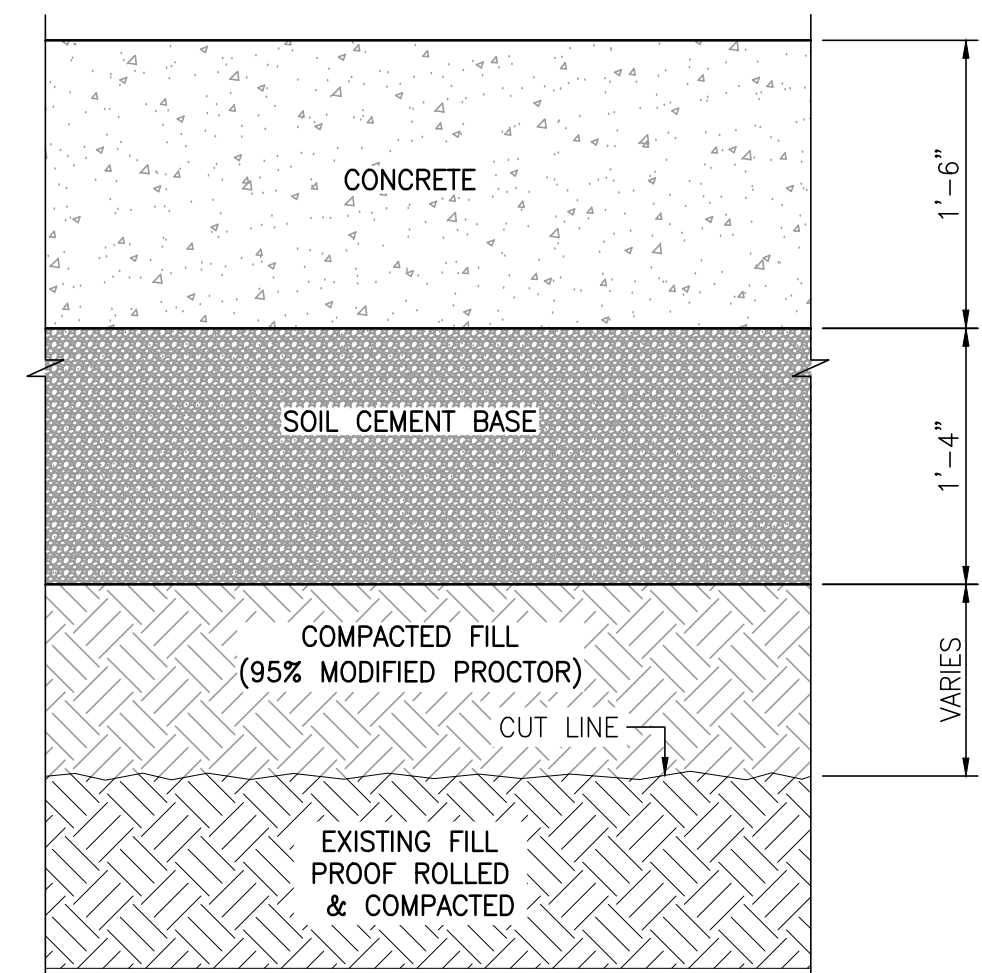


# APTIM

PORT SERVICES, LLC

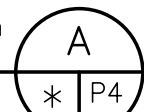
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APMT PHASE IV YARD EXPANSION	
CONTAINER YARD PAVING	
PARTIAL PLAN (SHT. 2 OF 2)	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: P3
REVISION: A	

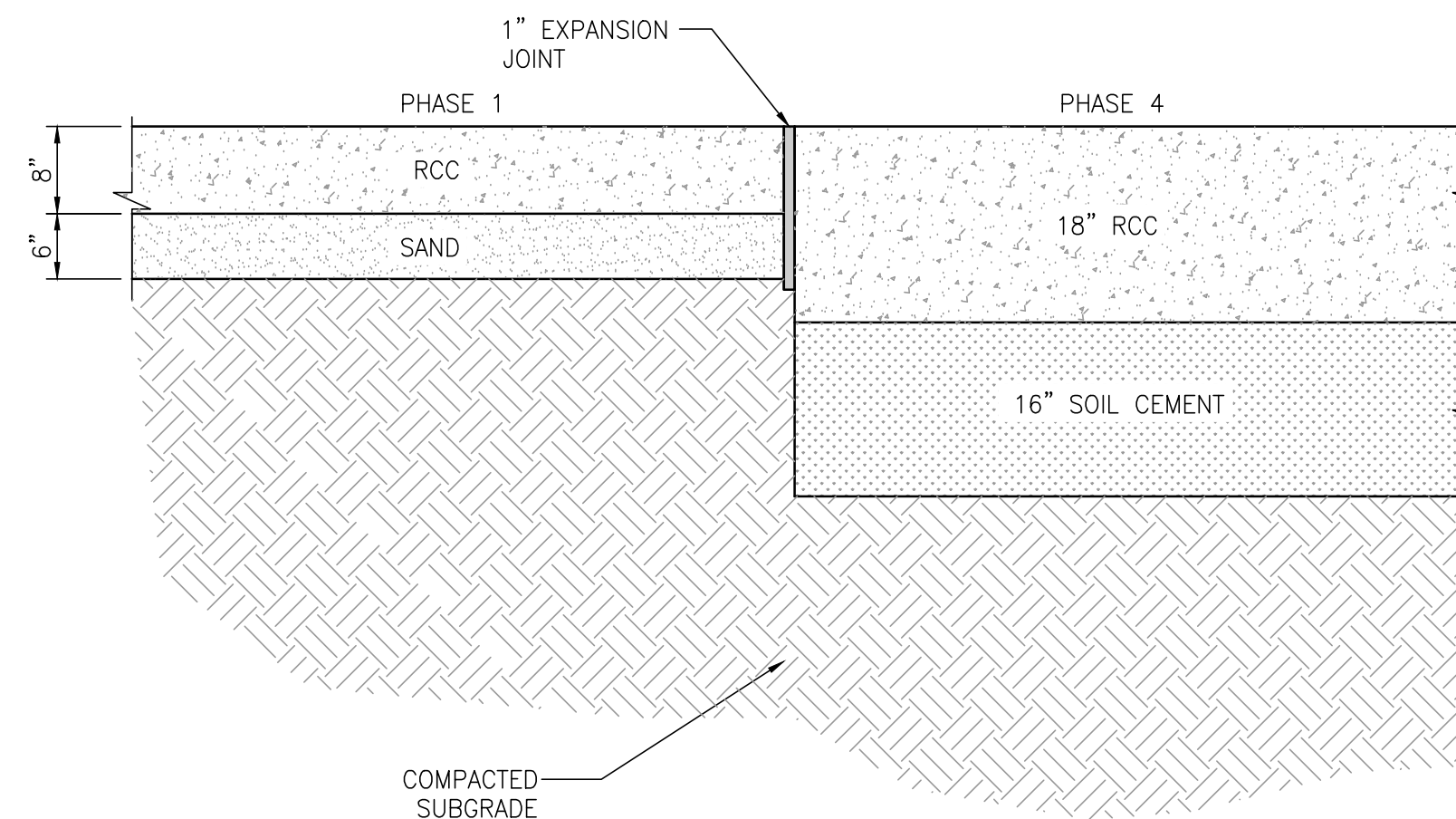


**ROLLER COMPACTED CONCRETE PAVEMENT**

1"=1'-0"



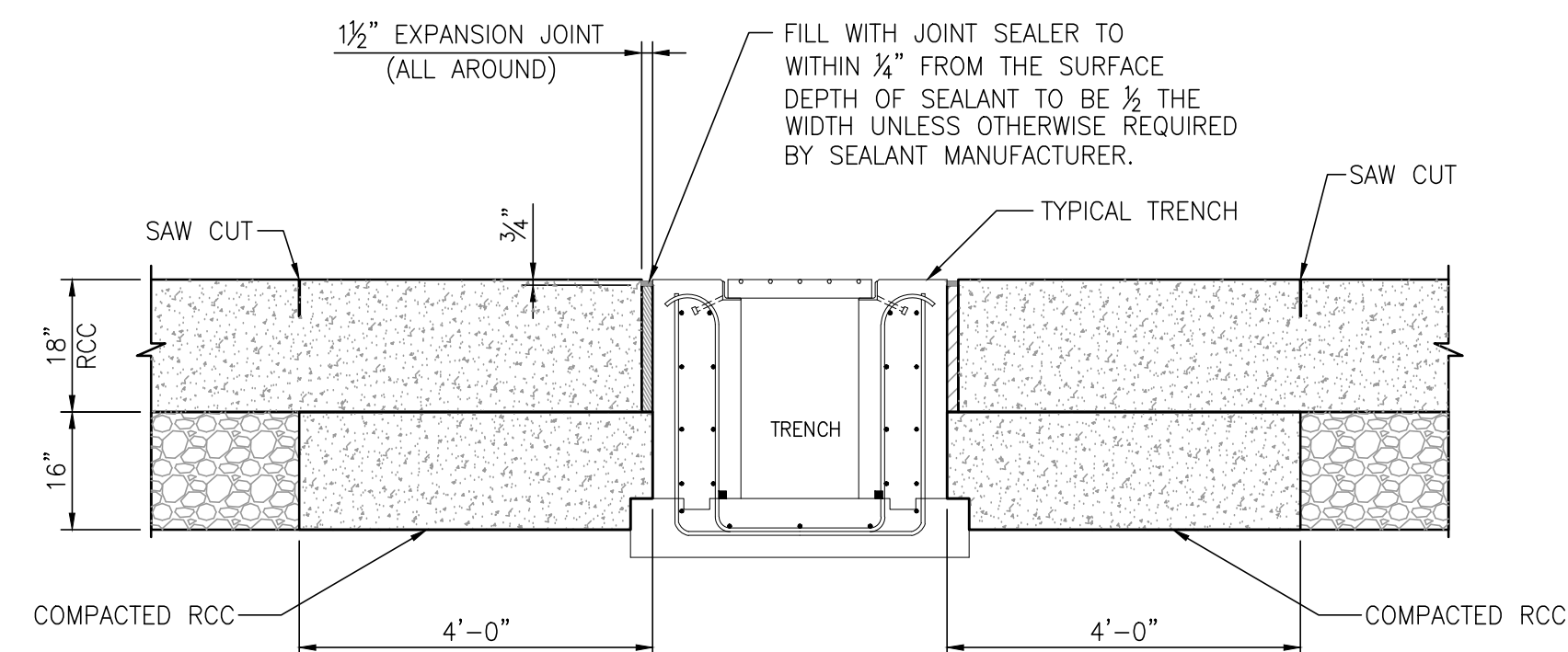
\* P2, P3



**PHASE 1/4 INTERFACE**

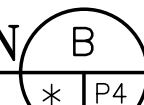


SECTION  
3/4"=1'-0" \* P2, P3

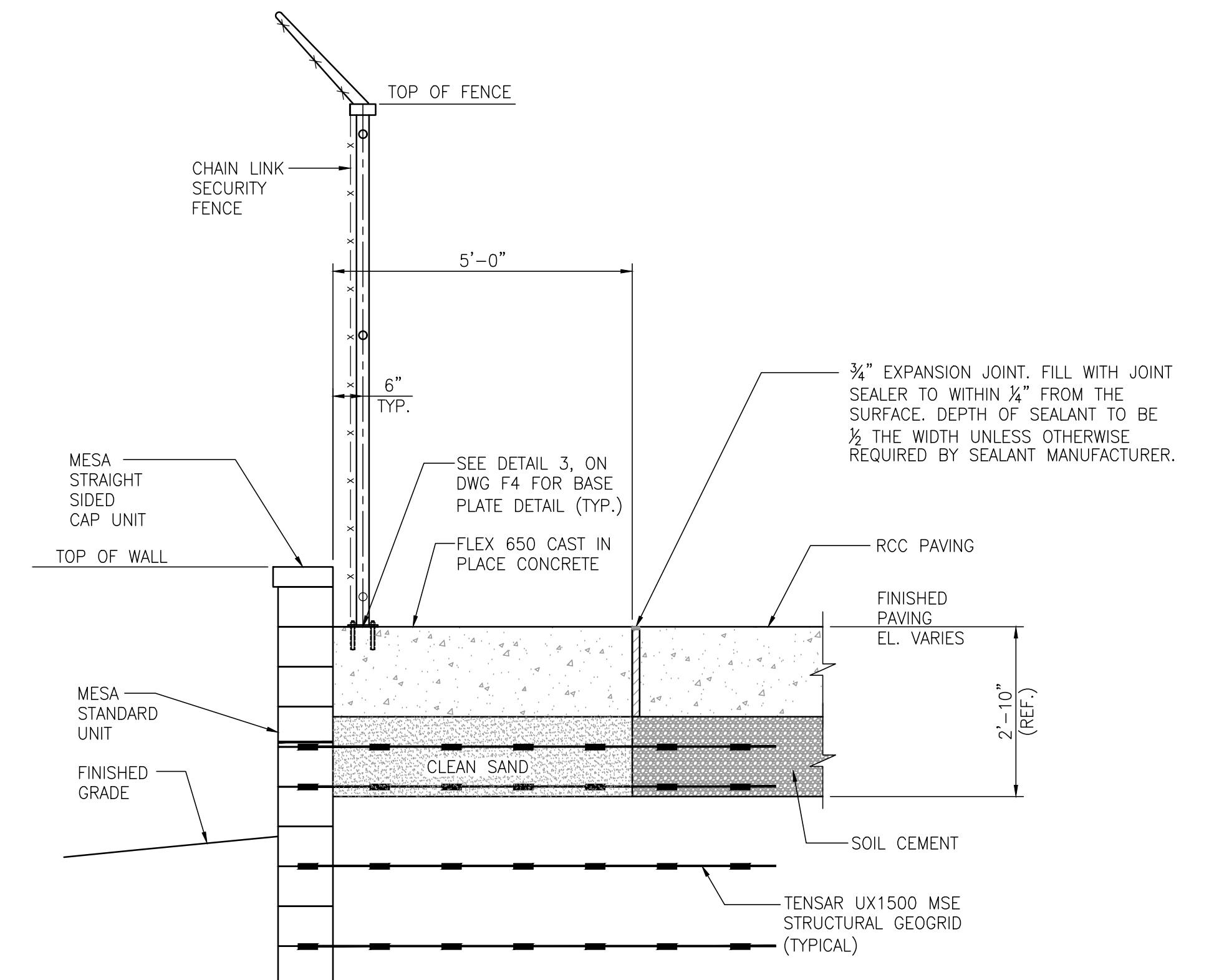


**TYPICAL TRENCH TO RCC SECTION**

1/2"=1'-0"



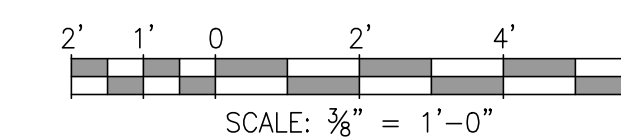
\* P2, P3



SECTION  
\* P2, P3

**NOTES:**

- RCC PLACED IN TWO (2) LIFTS OF APPROXIMATELY EQUAL THICKNESS, 9"±.
- IN AREAS WHERE AS MUCH AS TWO FEET OF FILL IS REQUIRED, THE MATERIALS SHALL BE PLACED IN 8-INCH LIFTS (LOOSE MEASUREMENT) AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR). IN AREAS WHERE LESS THAN TWO FEET OF FILL IS REQUIRED, THE EXISTING SUBGRADE SHALL BE EXCAVATED AND RECOMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR), SUCH THAT THE BASE COURSE IS CONSTRUCTED ON A MINIMUM THICKNESS OF TWO FEET OF COMPACTED SOIL.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

CONTAINER YARD RCC PAVEMENT - SECTIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: P4

REV: A

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

REFERENCE DRAWINGS

A

ISSUED FOR BID

RST

MED

RSG

04/05/24

DATE

DRAWN: RST

CK'D: MED

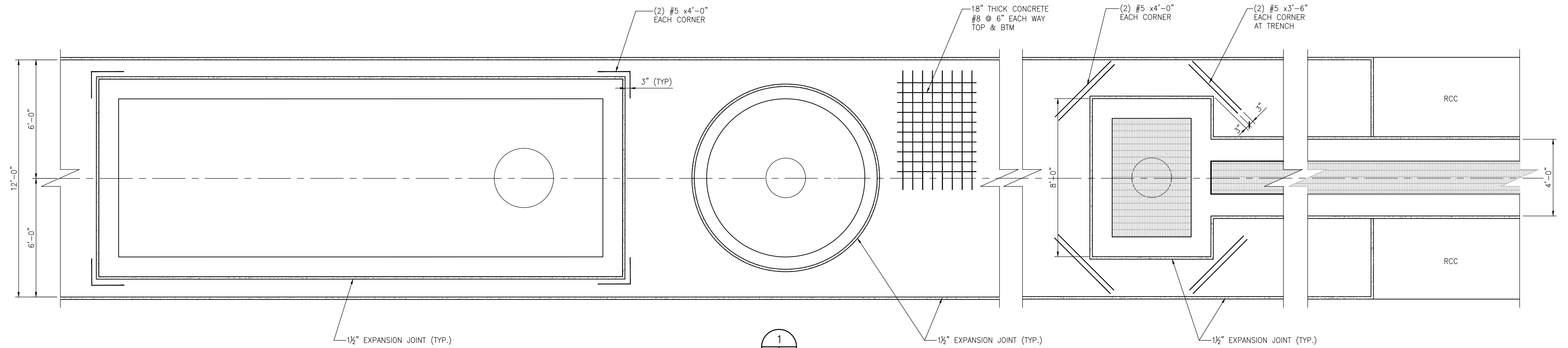
APPD: RSG

DATE: 04/04/22

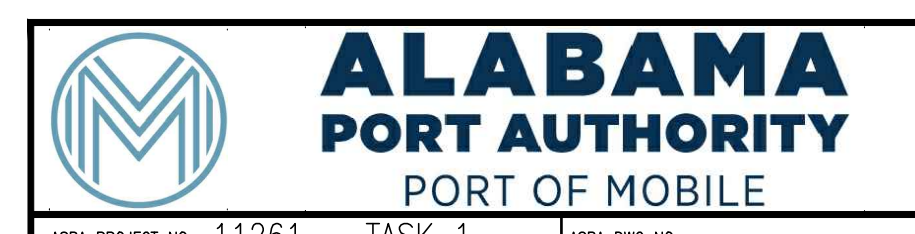
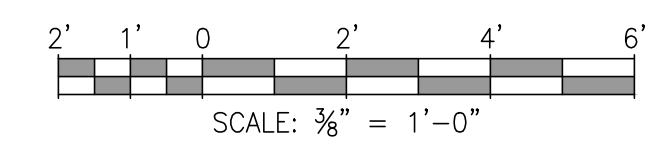
SCALE: NOTED



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**DETAIL** 1  
 P2, P3, P5  
 3/8"=1'-0"



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES	
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.	

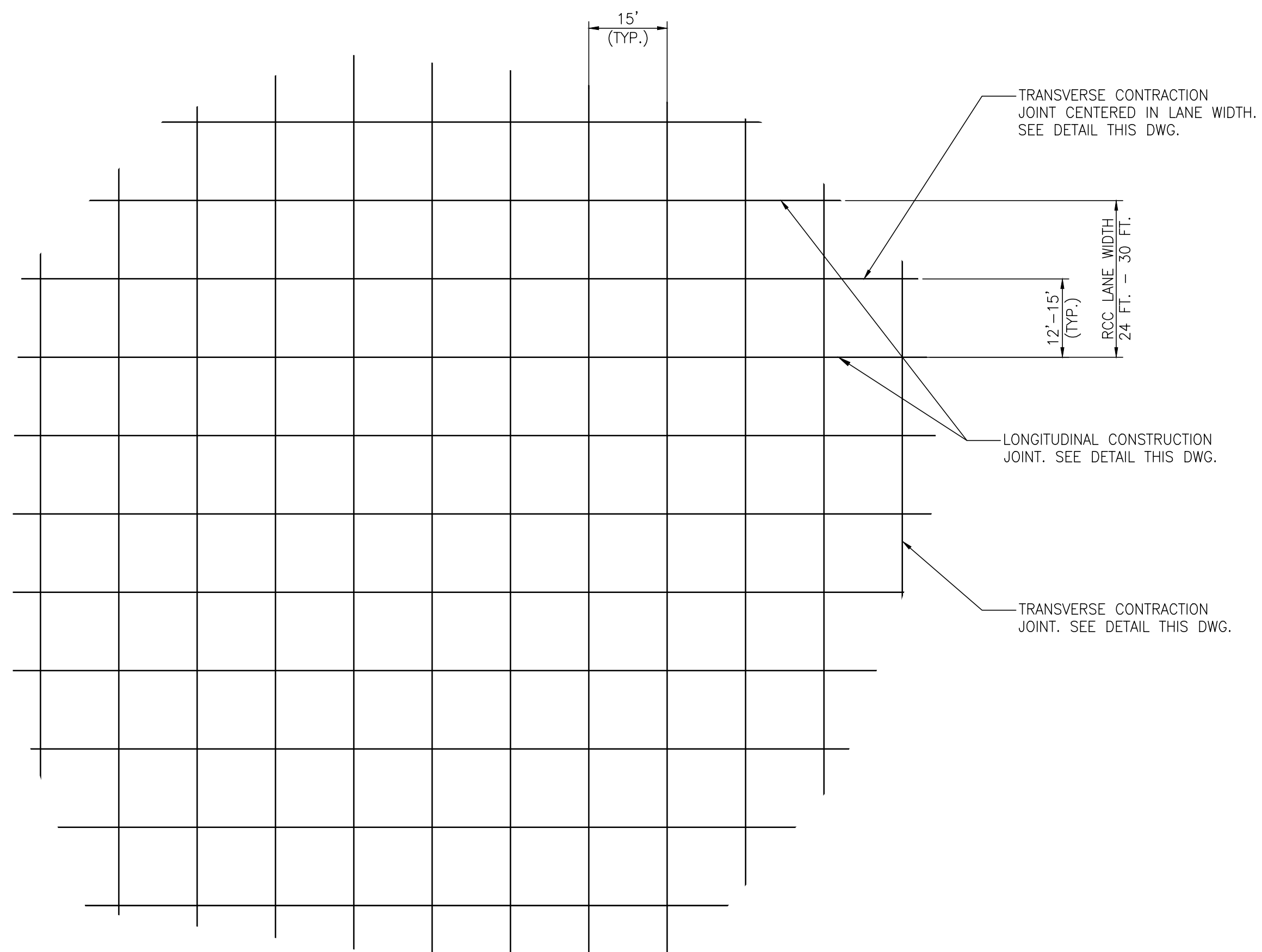
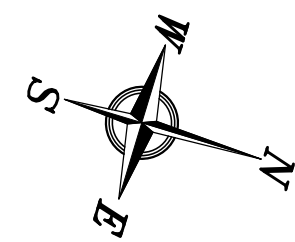
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

**APTIM**  
 PORT SERVICES, LLC

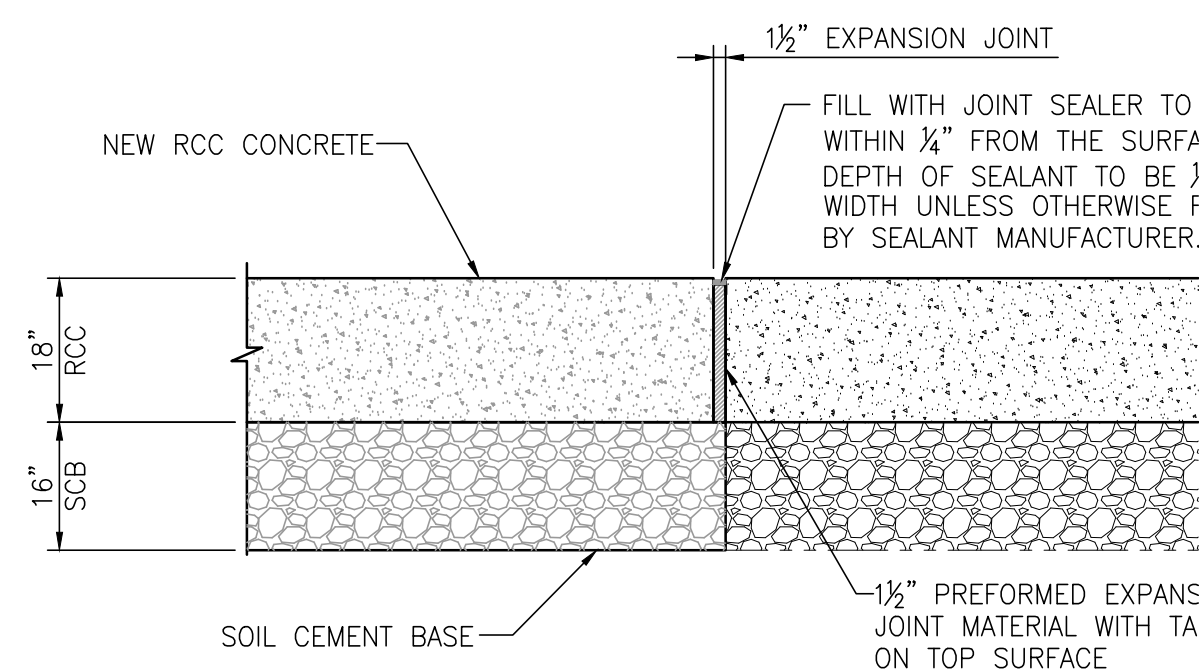
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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/04/22 SCALE: NOTED

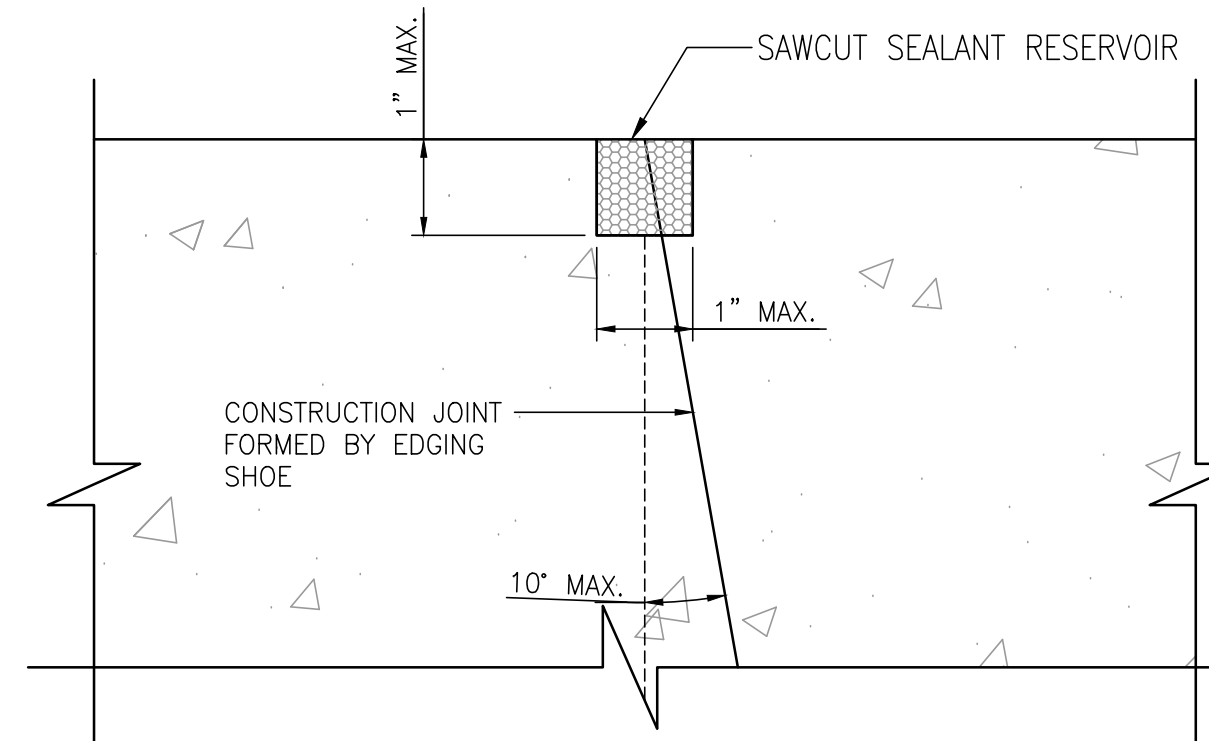
APMT PHASE IV YARD EXPANSION	
CONTAINER YARD RCC PAVEMENT - DETAILS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: P5
REV: A	



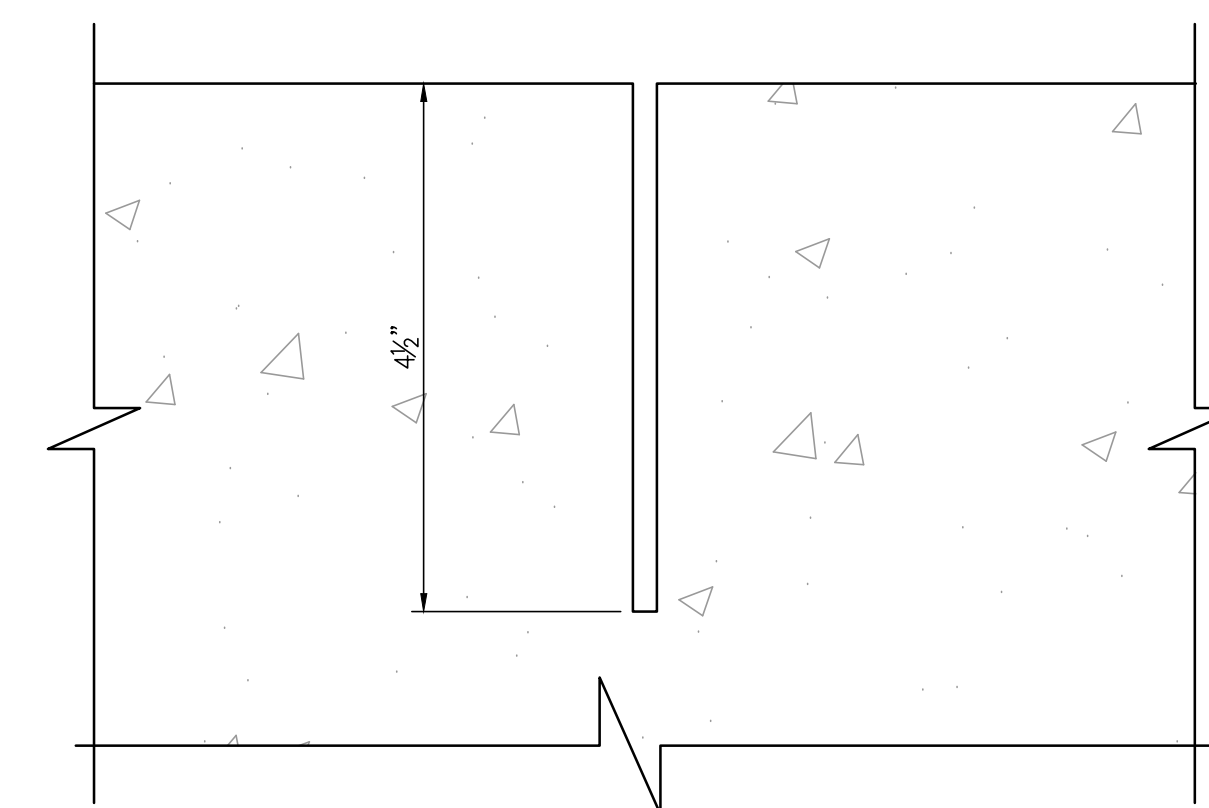
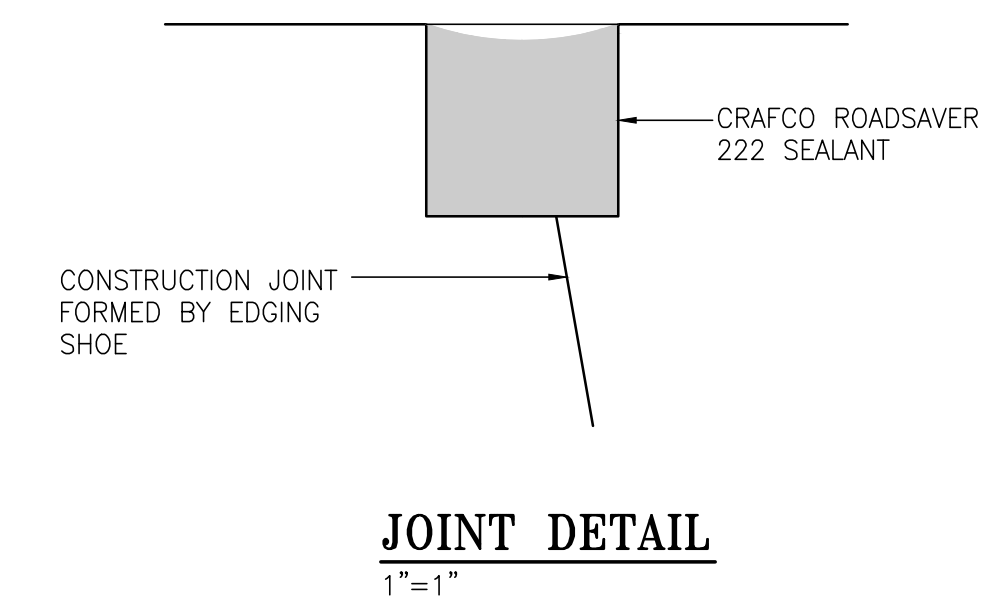
**PARTIAL ENLARGED RCC PAVING JOINT LOCATION PLAN**  
1"=20'



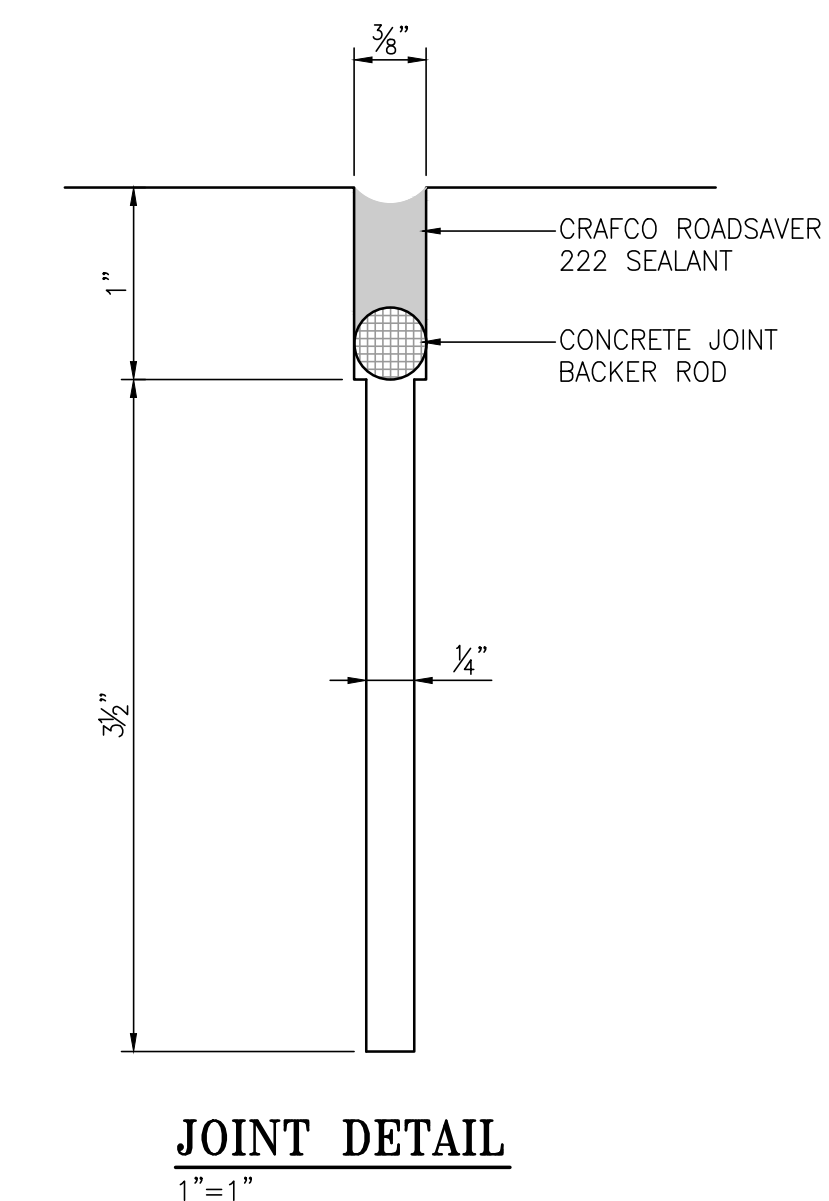
**SECTION A-A**  
1/2"=1'-0"



**RCC LONGITUDINAL CONSTRUCTION JOINT - SEALED DETAIL**



**RCC TRANSVERSE CONTRACTION JOINT - SEALED DETAIL**



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
RCC PAVING JOINT LOCATION  
PLAN & DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: P6

REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24
REFERENCE DRAWINGS					

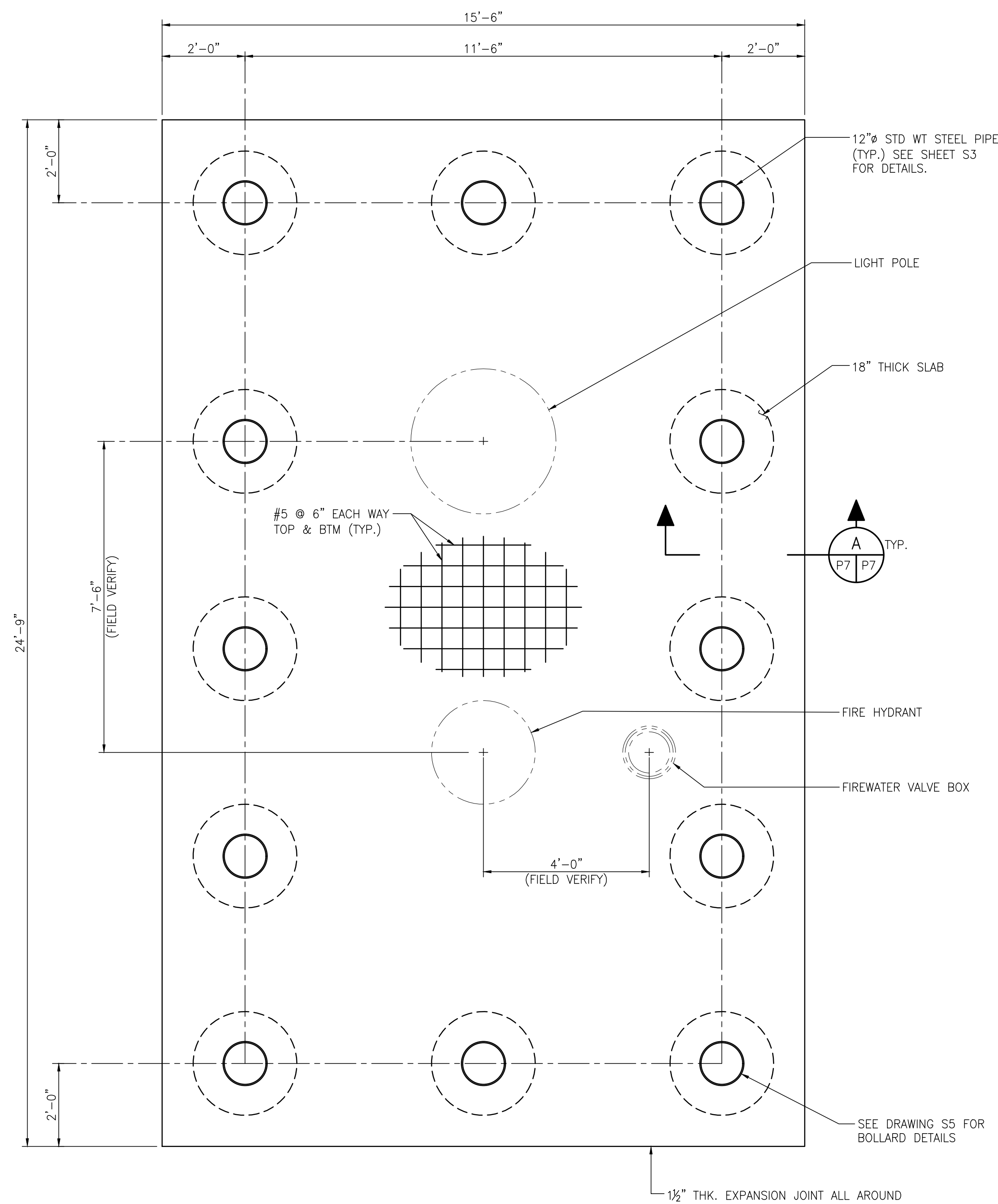
NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

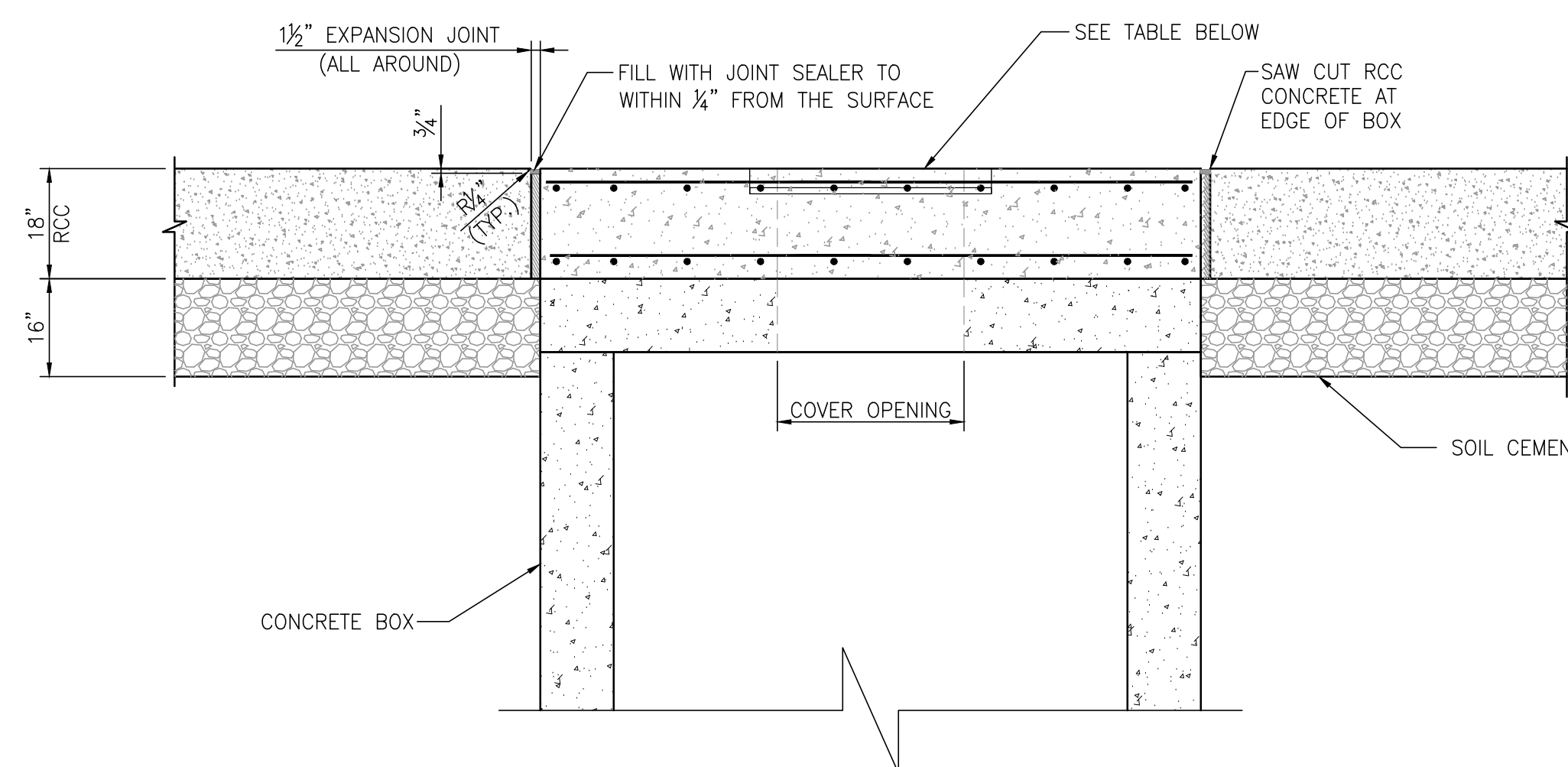
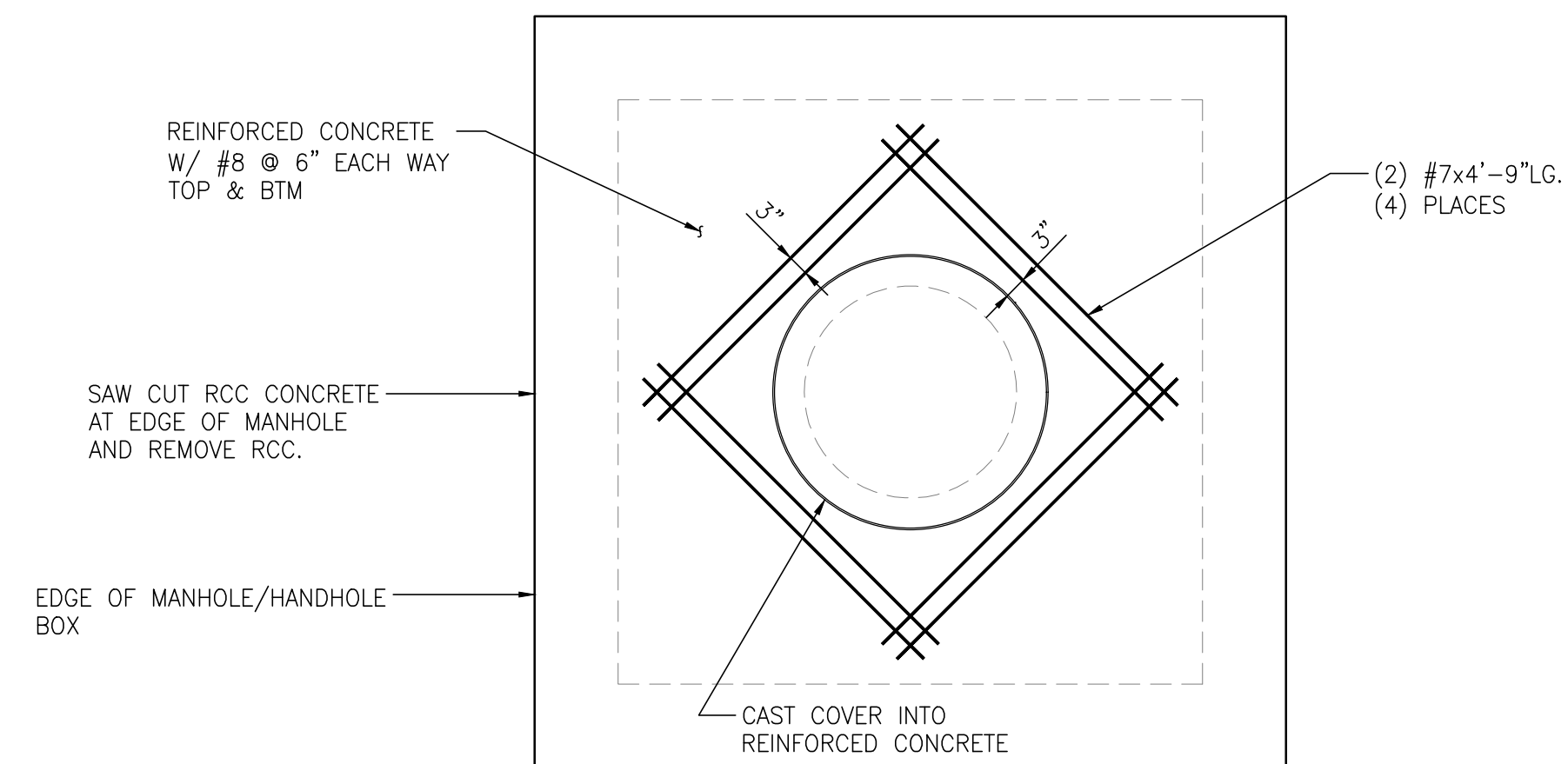


**NOTES:**

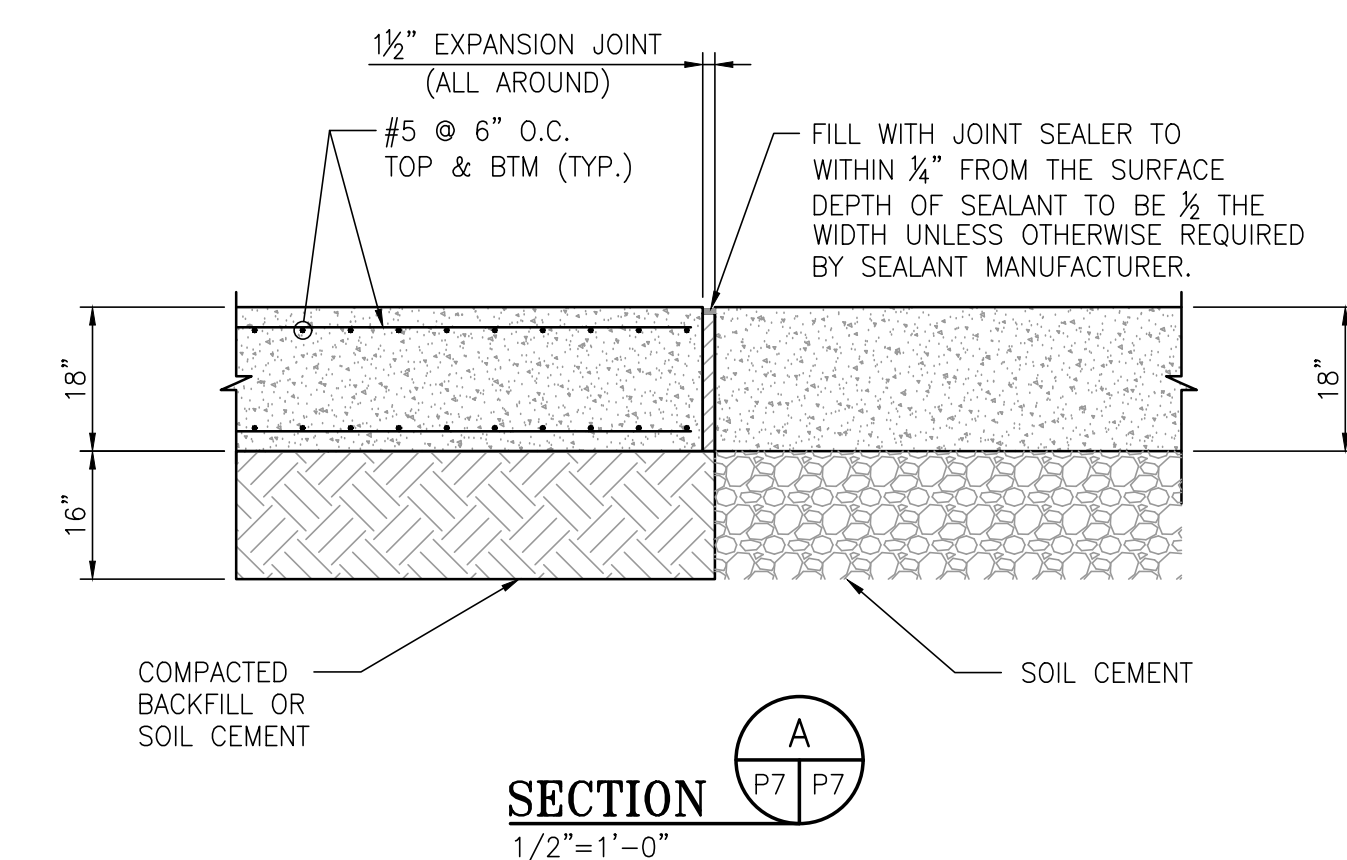
1. FOR LOCATIONS OF JUNCTION BOXES AND ELECTRICAL BOXES, MANHOLE AND HANDHOLES SEE DRAWINGS S1, S2 & S3.



**TYPICAL LIGHT POLE / FIRE HYDRANT PARTIAL PLAN**  
1/2"=1'-0" (SEE PLAN FOR ORIENTATION)



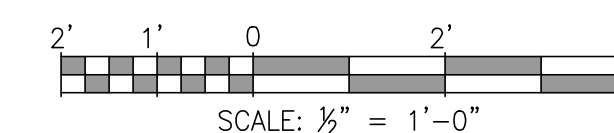
**TYPICAL ELECTRICAL MANHOLE & HANDHOLE TO RCC SECTION**  
1/2"=1'-0"



**SECTION A P7 P7**  
1/2"=1'-0"

**BOX COVER & FRAME LEGEND**

DESCRIPTION	FRAME AND COVER
ELECTRICAL MANHOLES	EAST JORDAN IRON WORKS MODEL #1810A2VH V1600-4 AIRPORT MANHOLE FRAME AND COVER - MARKED ELECTRICAL - CAPACITY = 200+ KIIPS
ELECTRICAL HANDHOLES	EAST JORDAN IRON WORKS MODEL #1770A 2855Z AIRPORT MANHOLE FRAME AND COVER - MARKED ELECTRICAL OR COMMUNICATIONS CAPACITY = 200+ KIIPS SEE DRAWING E14 FOR TYPE



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

TYPICAL LIGHT POLE & FIRE HYDRANT DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: P7

REV: A

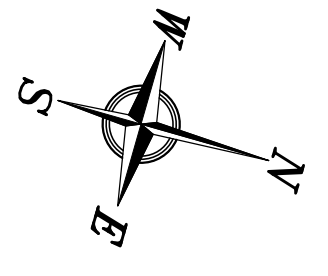


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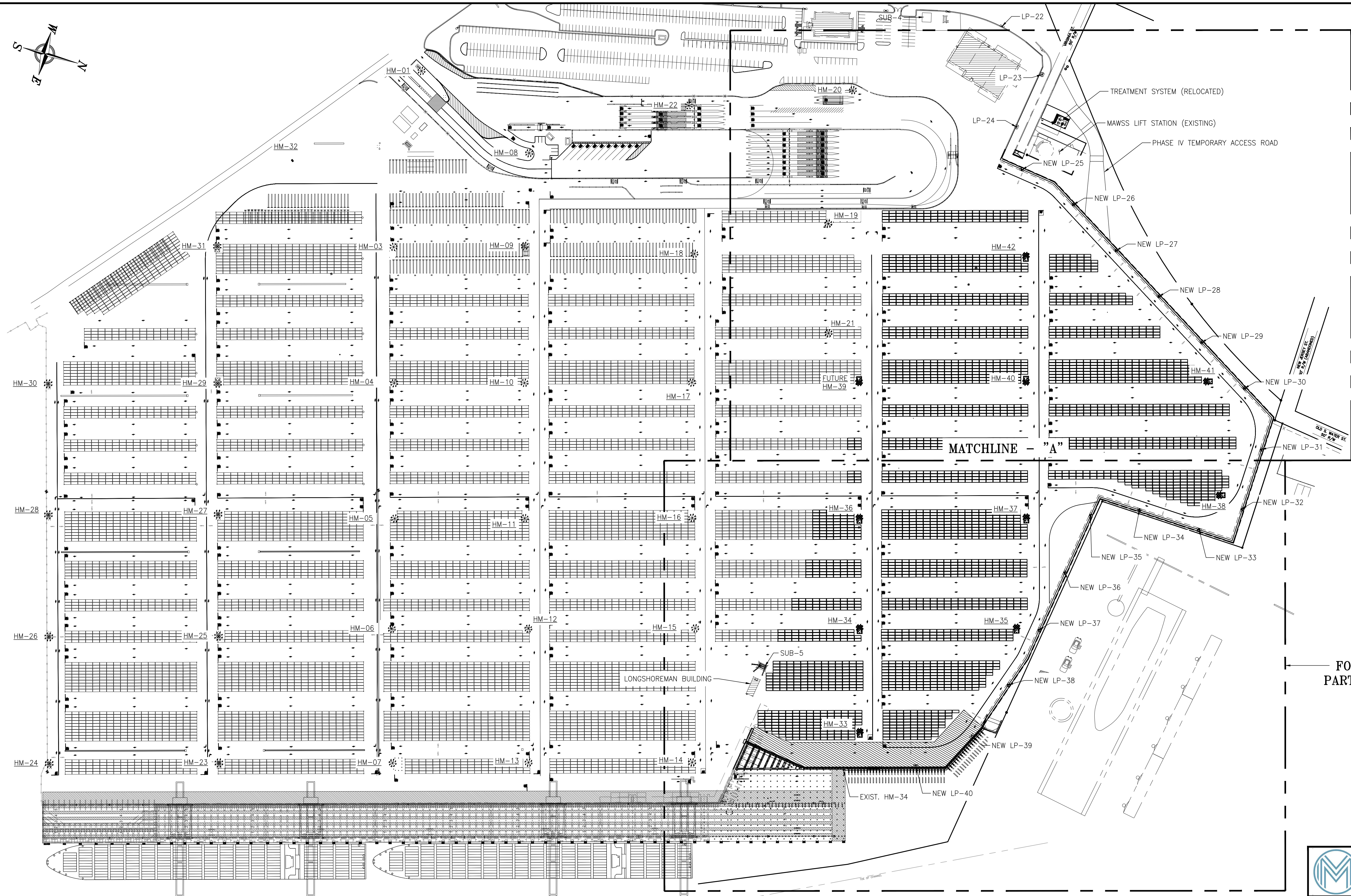
DRAWN: RST CK'D: MED APPD: RSG DATE: 04/05/24 SCALE: 1/2"=1'-0"

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

NOTES
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

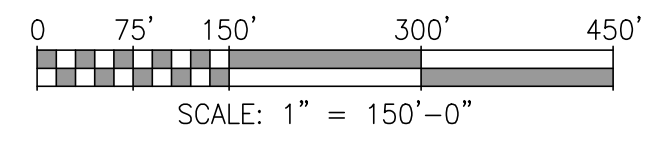


**NOTES**  
 1. SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.



FOR PAVEMENT MARKING  
 PARTIAL PLAN SEE DWG P9

FOR PAVEMENT MARKING  
 PARTIAL PLAN SEE DWG P10



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
 PAVEMENT MARKING  
 OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: P8 REV: A



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NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
REFERENCE DRAWINGS					

**NOTES**



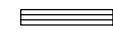



1. SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.
2. FOR PAVING DETAILS SEE DWG. P11.
3. FOR HATCHED AREAS SEE DETAIL 6 ON DWG. P11.

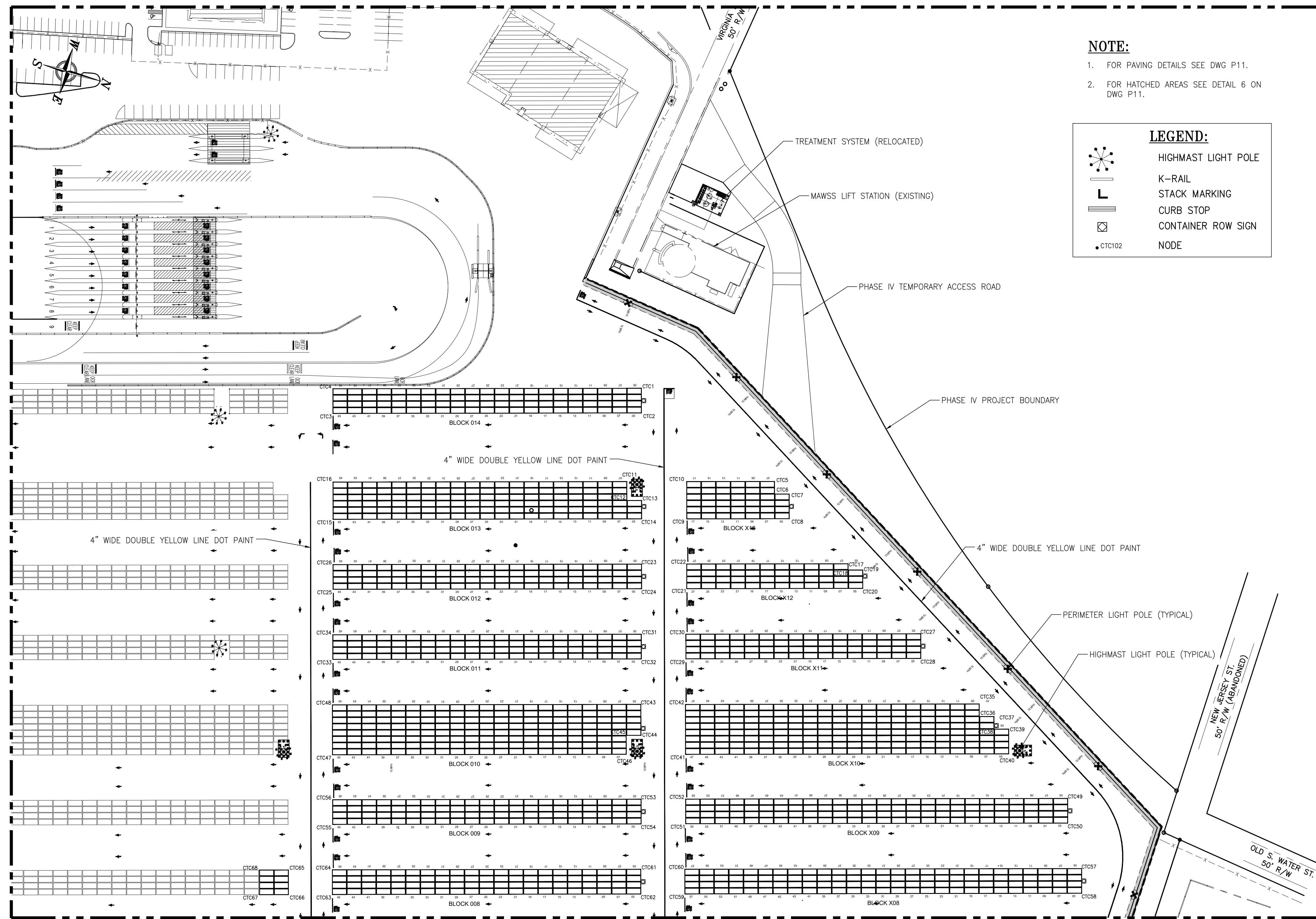
NODE ID	NORTHING	EASTING
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CTC2	244388.28	1798473.98
CTC3	243965.70	1798596.15
CTC4	243955.98	1798562.53
CTC5	244597.80	1798515.78
CTC6	244602.80	1798533.07
CTC7	244622.97	1798527.24
CTC8	244632.68	1798560.85
CTC9	244492.46	1798601.39
CTC10	244477.75	1798550.49
CTC11	244395.38	1798574.12
CTC12	244402.87	1798600.05
CTC13	244423.04	1798594.22
CTC14	244430.26	1798619.18
CTC15	244007.68	1798741.35
CTC16	243992.96	1798690.45
CTC17	244731.13	1798599.67
CTC18	244733.63	1798608.31
CTC19	244753.79	1798602.48
CTC20	244761.01	1798627.45
CTC21	244519.95	1798697.14
CTC22	244510.23	1798663.53
CTC23	244448.09	1798681.49
CTC24	244457.80	1798715.11
CTC25	244035.22	1798837.27
CTC26	244025.50	1798803.66
CTC27	244858.45	1798667.08
CTC28	244868.16	1798700.69
CTC29	244546.42	1798793.70
CTC30	244536.70	1798760.09
CTC31	244475.37	1798777.82
CTC32	244485.09	1798811.44
CTC33	244062.51	1798933.60
CTC34	244052.79	1798899.99
CTC35	244966.28	1798740.35
CTC36	244971.28	1798757.63
CTC37	244994.45	1798751.80
CTC38	244996.45	1798769.09
CTC39	245016.62	1798763.26
CTC40	248026.33	1798796.87
CTC41	244583.58	1798924.87
CTC42	244563.87	1798856.68
CTC43	244502.46	1798874.17
CTC44	244514.68	1798916.43
CTC45	244494.51	1798922.26
CTC46	244502.01	1798948.19
CTC47	244099.60	1799064.53
CTC48	244079.88	1798996.34
CTC49	245124.82	1798835.05
CTC50	245134.54	1798868.67
CTC51	244611.11	1799020.01
CTC52	244601.40	1798986.40
CTC53	244540.14	1799004.19
CTC54	244549.85	1799037.80
CTC55	244127.27	1799159.99
CTC56	244117.56	1799126.38
CTC57	245171.58	1798925.78
CTC58	245181.29	1798959.39
CTC59	244637.70	1799116.57
CTC60	244627.98	1799082.95
CTC61	244567.32	1799100.46
CTC62	244577.04	1799134.08
CTC63	244154.45	1799256.27
CTC64	244144.74	1799222.66
CTC65	244084.31	1799240.20
CTC66	244094.03	1799273.82
CTC67	244054.66	1799285.20
CTC68	244044.94	1799251.59

**NOTE:**

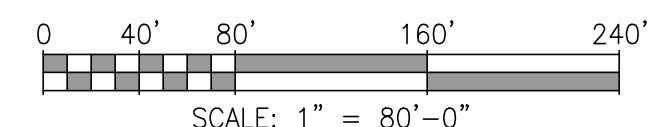
1. FOR PAVING DETAILS SEE DWG P11.
2. FOR HATCHED AREAS SEE DETAIL 6 ON DWG P11.

**LEGEND:**

-  HIGHMAST LIGHT POLE
-  K-RAIL
-  STACK MARKING
-  CURB STOP
-  CONTAINER ROW SIGN
-  NODE



MATCHLINE - "A" SEE DWG. P10



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
PAVEMENT MARKING  
PARTIAL PLAN (SHEET 1 OF 2)

FOR: ALABAMA PORT AUTHORITY

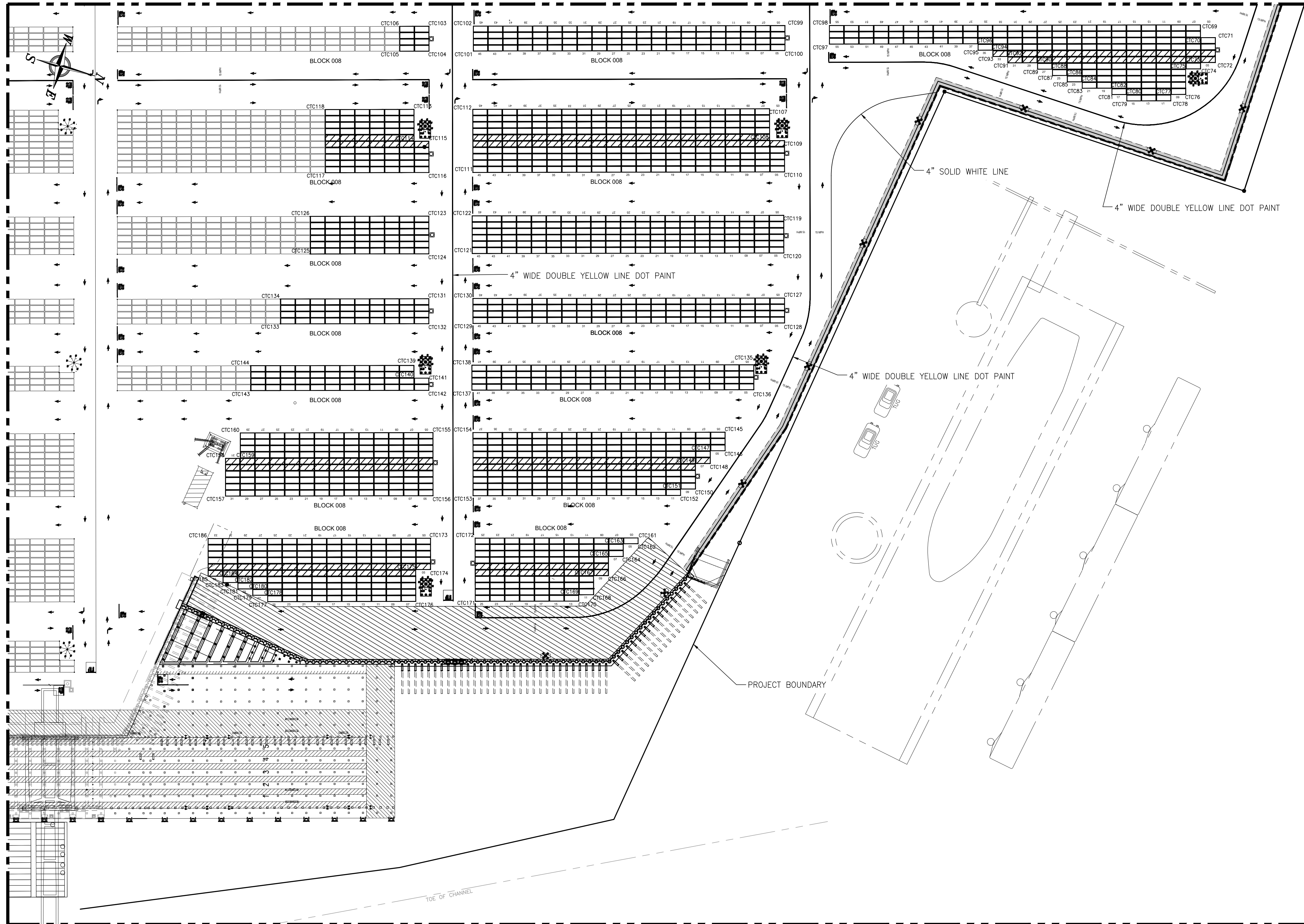
PROJECT NO: 4484 DWG NO: P9 REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: WMB	CK'D: MED	APPD: RSG	DATE: 08/10/23	SCALE: AS NOTED
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24					
	REFERENCE DRAWINGS									

MATCHLINE - "A" SEE DWG. P9

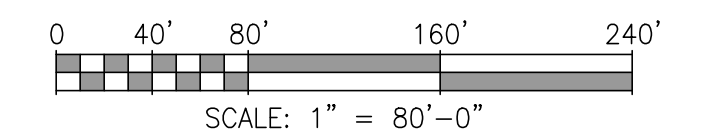


NOTES

- SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.
- FOR PAVING DETAILS SEE DWG. P11.
- FOR HATCHED AREAS SEE DETAIL 6 ON DWG. P11.

NODE ID	NORTHING	EASTING
CTC69	245158.02	1799033.54
CTC70	245163.02	1799050.83
CTC71	245183.19	1799045.00
CTC72	245192.90	1799078.61
CTC73	245172.73	1799084.45
CTC74	245175.23	1799093.09
CTC75	245155.06	1799098.92
CTC76	245165.06	1799133.49
CTC77	245144.89	1799139.33
CTC78	245147.39	1799147.97
CTC79	245087.85	1799165.18
CTC80	245085.35	1799156.54
CTC81	245065.18	1799162.37
CTC82	245062.68	1799153.73
CTC83	245022.34	1799165.39
CTC84	245019.84	1799156.74
CTC85	244999.67	1799162.57
CTC86	244997.18	1799153.93
CTC87	244977.01	1799159.76
CTC88	244974.51	1799151.12
CTC89	244954.34	1799156.95
CTC90	244951.84	1799148.30
CTC91	244911.50	1799159.96
CTC92	244909.00	1799151.32
CTC93	244888.83	1799157.15
CTC94	244886.34	1799148.51
CTC95	244866.16	1799154.34
CTC96	244863.67	1799145.70
CTC97	244661.99	1799204.03
CTC98	244654.77	1799179.06
CTC99	244594.32	1799196.51
CTC100	244604.03	1799230.12
CTC101	244181.45	1799352.31
CTC102	244171.74	1799318.70
CTC103	244111.32	1799336.24
CTC104	244121.03	1799369.86
CTC105	244081.66	1799381.24
CTC106	244071.94	1799347.63
CTC107	244605.86	1799315.46
CTC108	244618.35	1799358.68
CTC109	244638.52	1799352.85
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CTC111	244228.16	1799517.32
CTC112	244203.46	1799431.84
CTC113	244123.43	1799454.95
CTC114	244135.92	1799498.17
CTC115	244156.09	1799492.34
CTC116	244168.31	1799534.60
CTC117	244028.09	1799575.14
CTC118	244003.38	1799489.66
CTC119	244666.73	1799454.55
CTC120	244681.44	1799505.46
CTC121	244258.85	1799627.60
CTC122	244244.14	1799576.70
CTC123	244185.22	1799594.05
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CTC126	244024.83	1799640.42
CTC127	244699.98	1799566.60
CTC128	244709.70	1799600.12
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CTC130	244277.37	1799688.57

NODE ID	NORTHING	EASTING
CTC131	244217.40	1799706.19
CTC132	244227.12	1799739.81
CTC133	244026.38	1799797.78
CTC134	244016.66	1799764.16
CTC135	244684.26	1799669.11
CTC136	244693.98	1799702.72
CTC137	244311.70	1799813.14
CTC138	244301.99	1799779.52
CTC139	244223.18	1799802.53
CTC140	244228.18	1799819.81
CTC141	244248.34	1799813.97
CTC142	244253.06	1799830.30
CTC143	244011.98	1799899.95
CTC144	244002.27	1799886.33
CTC145	244671.61	1799771.79
CTC146	244678.83	1799796.76
CTC147	244658.66	1799802.58
CTC148	244663.66	1799819.87
CTC149	244643.49	1799825.71
CTC150	244653.48	1799860.30
CTC151	244633.31	1799866.12
CTC152	244635.81	1799874.76
CTC153	244354.38	1799956.02
CTC154	244329.68	1799870.54
CTC155	244275.27	1799886.25
CTC156	244299.95	1799971.75
CTC157	244018.53	1800053.05
CTC158	244003.83	1800002.13
CTC159	244024.00	1799996.32
CTC160	244014.02	1799961.74
CTC161	244594.73	1799949.20
CTC162	244596.95	1799956.88
CTC163	244576.78	1799962.70
CTC164	244581.78	1799979.99
CTC165	244561.60	1799985.81
CTC166	244869.11	1800011.73
CTC167	244548.94	1800018.58
CTC168	244556.45	1800043.51
CTC169	244536.28	1800049.33
CTC170	244538.97	1800057.97
CTC171	244398.55	1800098.48
CTC172	244373.82	1800013.00
CTC173	244313.08	1800030.59
CTC174	244325.30	1800072.84
CTC175	244305.14	1800078.69
CTC176	244317.64	1800121.90
CTC177	244116.94	1800179.92
CTC178	244114.41	1800171.27
CTC179	244094.24	1800177.10
CTC180	244091.74	1800168.45
CTC181	244071.57	1800174.27
CTC182	244069.06	1800165.63
CTC183	244048.89	1800171.47
CTC184	244046.39	1800162.82
CTC185	244026.22	1800168.65
CTC186	244011.50	1800117.75
CTC187	X	X
CTC188	X	X
CTC189	X	X
CTC190	X	X
CTC191	X	X
CTC192	X	X
CTC193	X	X
CTC194	X	X



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
PAVEMENT MARKING  
PARTIAL PLAN - (SHEET 2 OF 2)

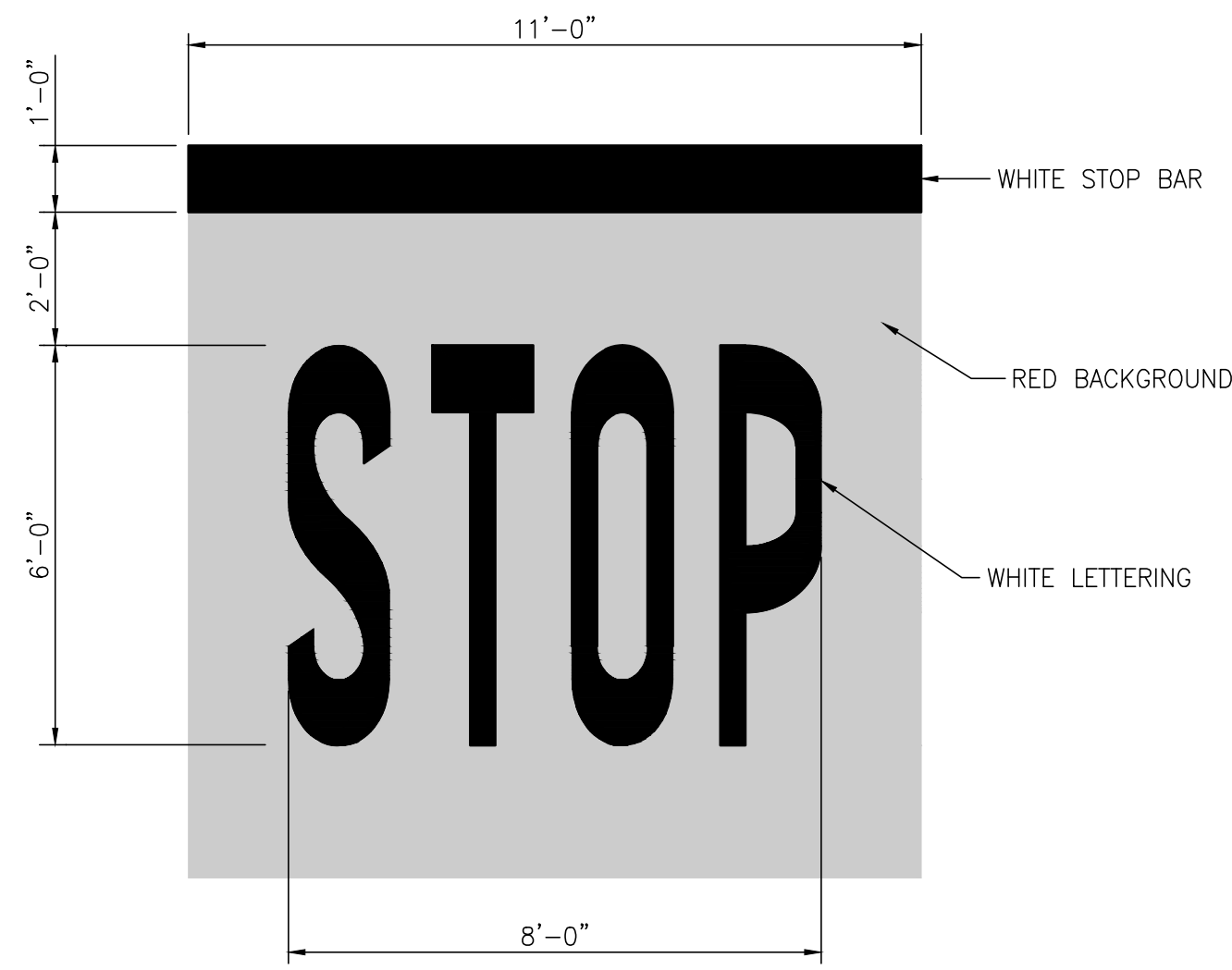
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: P10 REV: A



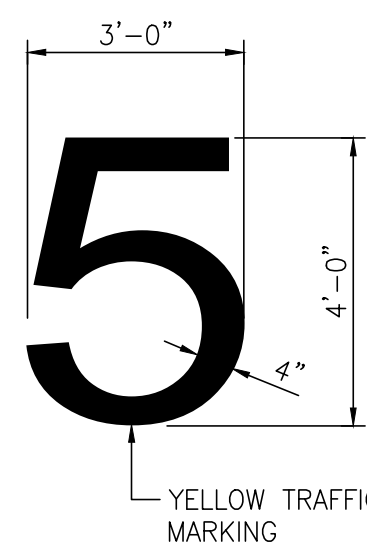
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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24



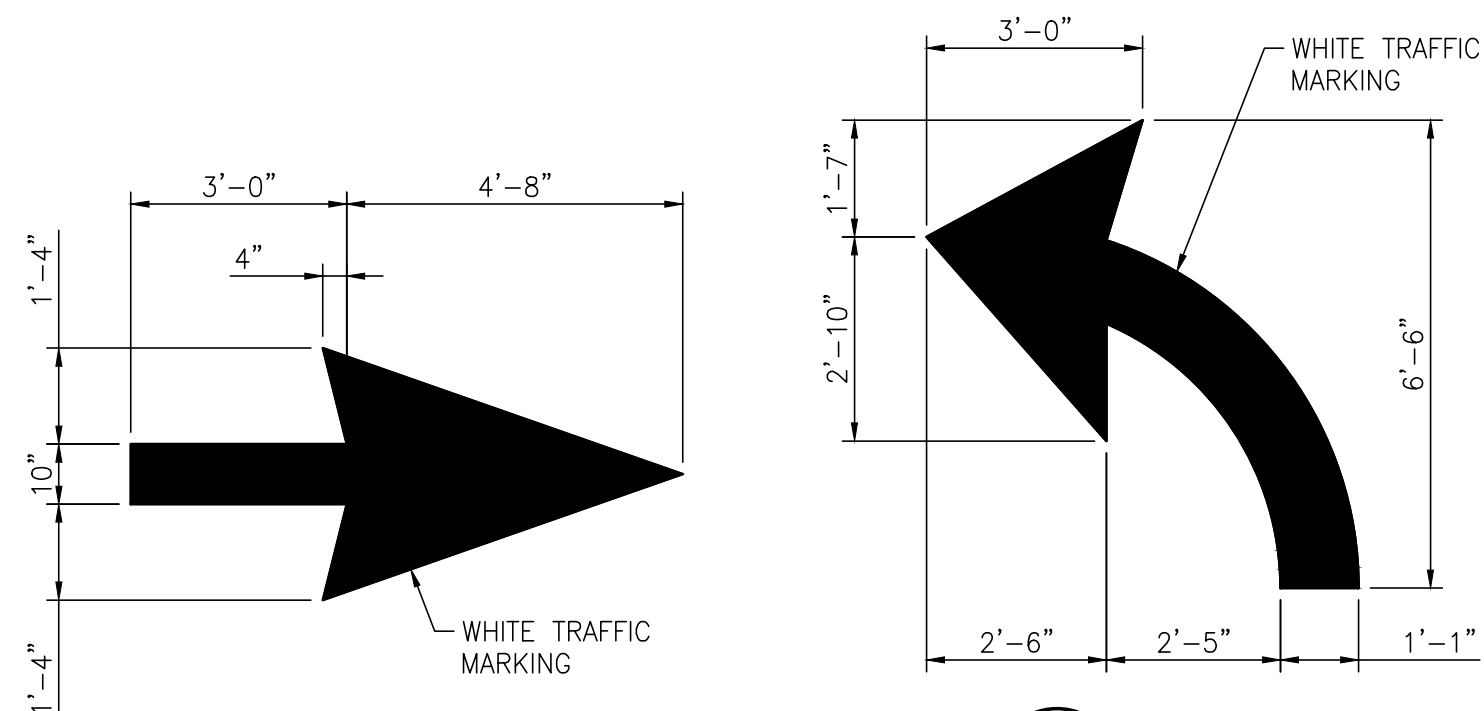
**STOP BAR DETAIL**

3/8"=1'-0" \* P9, P10



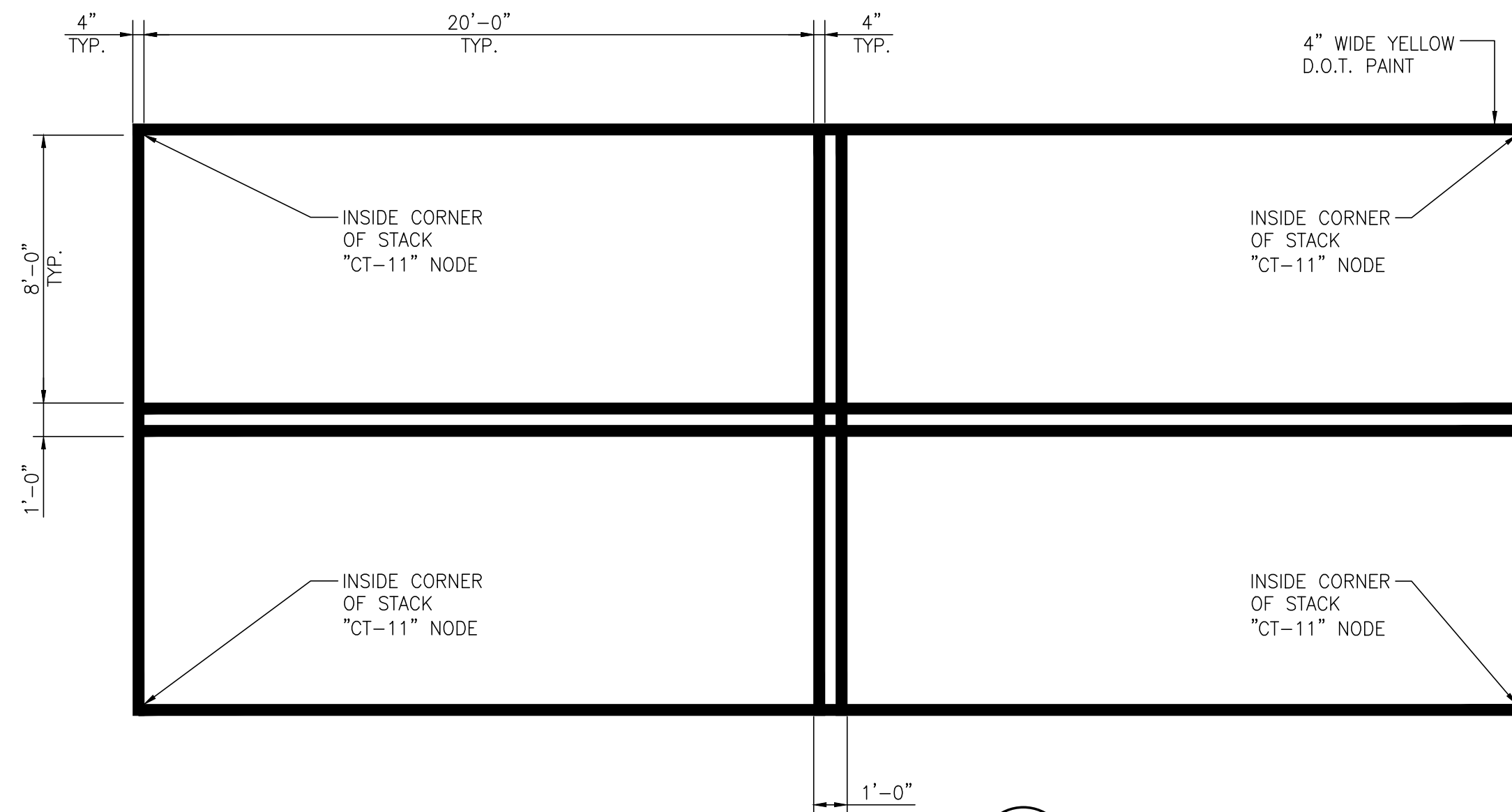
**NUMBER DETAIL**

3/8"=1'-0" \* P9, P10



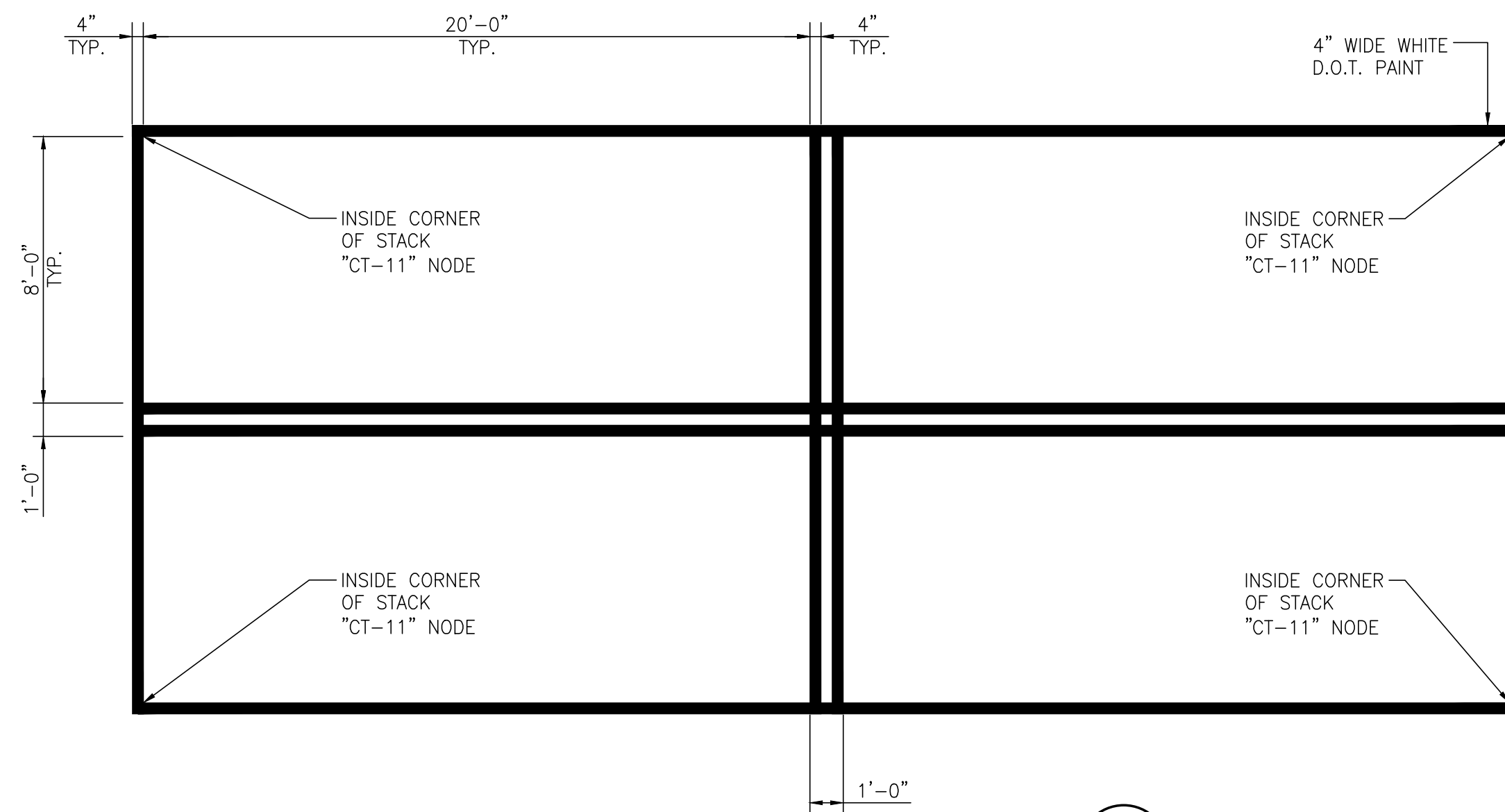
**DIRECTIONAL ARROWS**

3/8"=1'-0" \* P9, P10



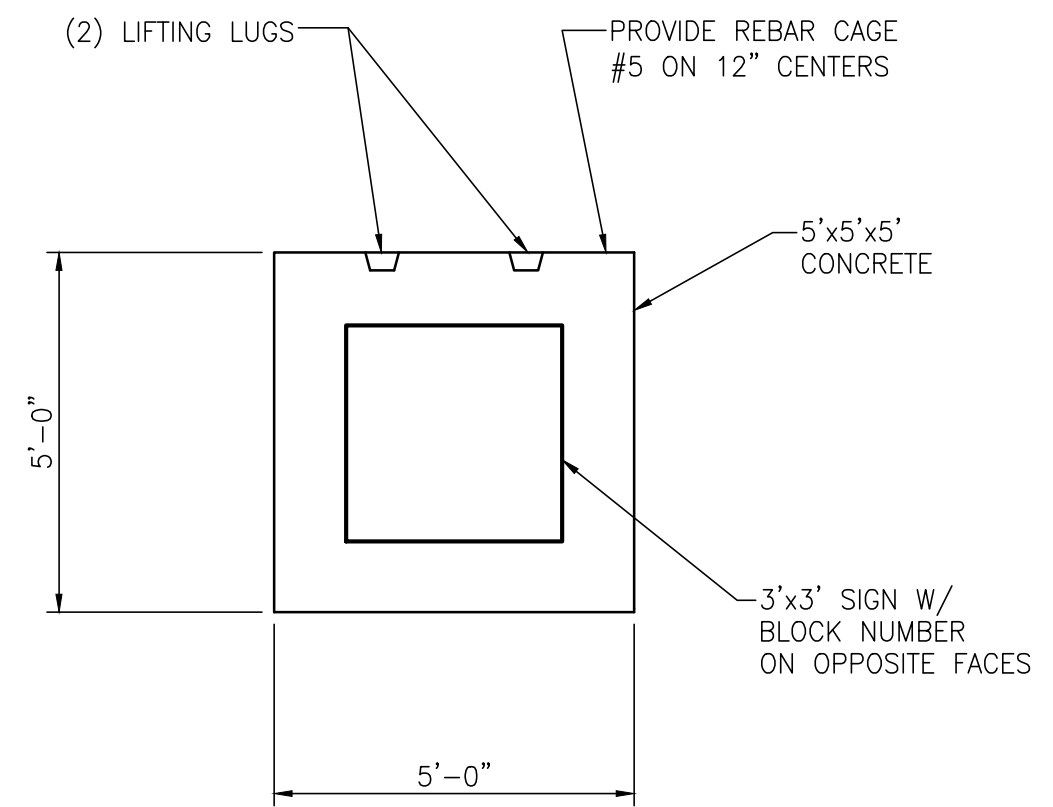
**CONTAINER MARKING**

1/4"=1'-0" \* P9, P10



**CONTAINER CORNER MARKING**

1/4"=1'-0" \* P9, P10



**ROW SIGN DETAIL**

3/8"=1'-0" \* P9, P10

**ELEVATION VIEW**

**NOTES:**

- LETTERS & NUMBERS MUST MATCH MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES)
- UNLESS OTHERWISE NOTED, PAINT IS WHITE DOT PAINT.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

PAVEMENT MARKING DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: P11

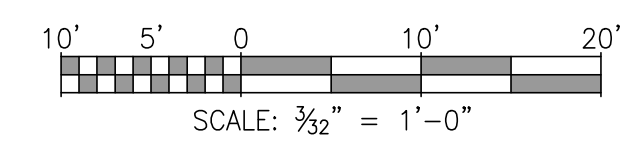
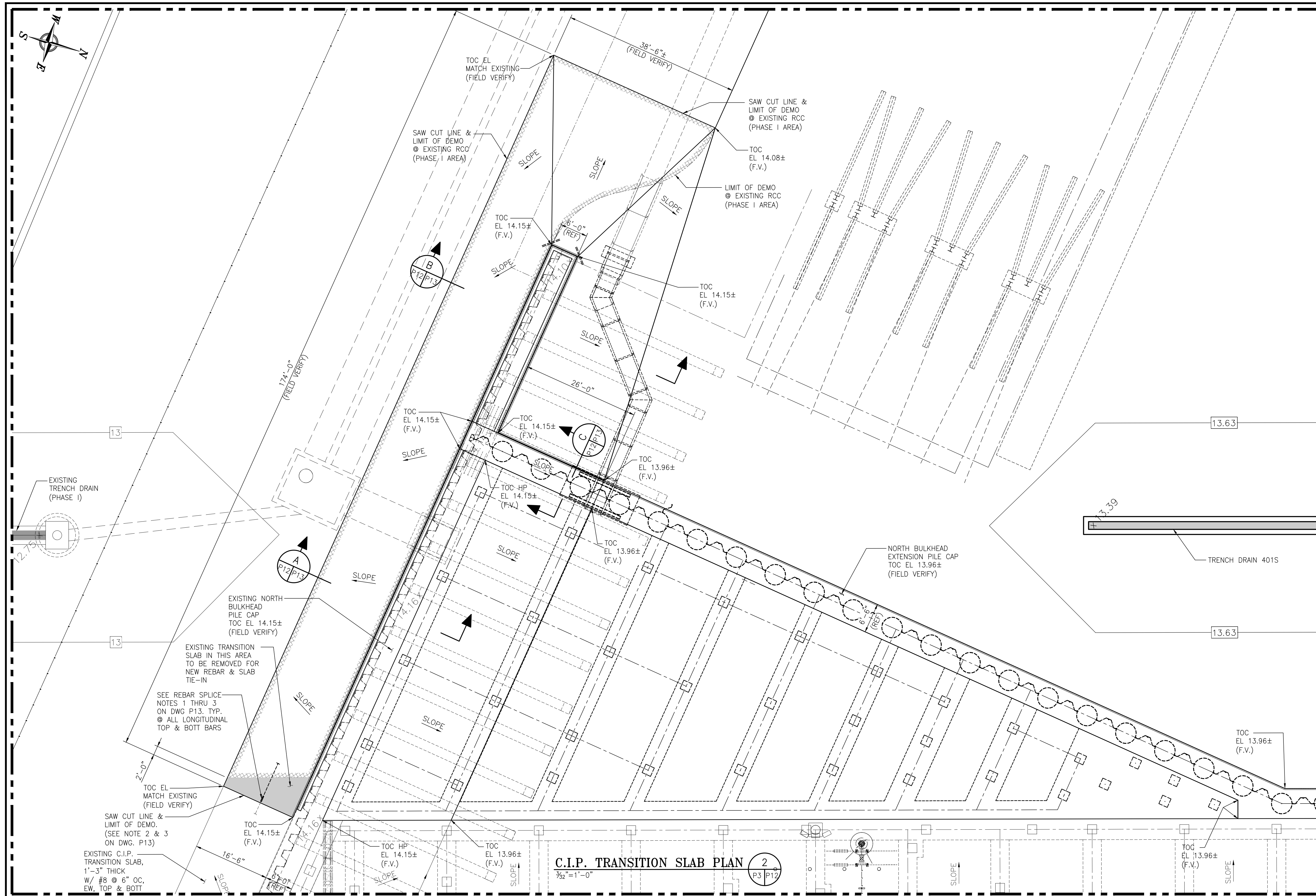
REV: A



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DRAWN: RST	CK'D: MED	APPD: RSG	DATE: 04/04/22	SCALE: NOTED
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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24
REFERENCE DRAWINGS					



NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

**C.I.P. TRANSITION SLAB PLAN**  
3/32"=1'-0"

2  
P3/P12



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
NORTH BULKHEAD PILECAP TO RCC PAVING  
CAST IN PLACE TRANSITION SLAB PLAN

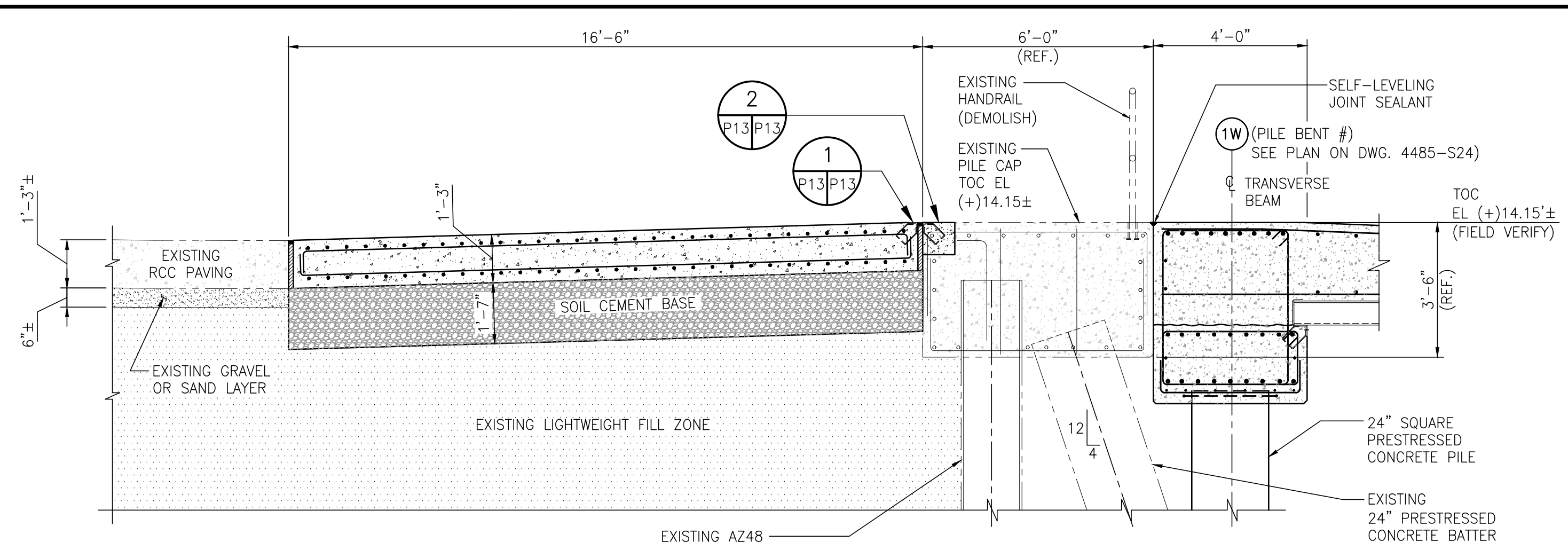
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: P12 REV: A

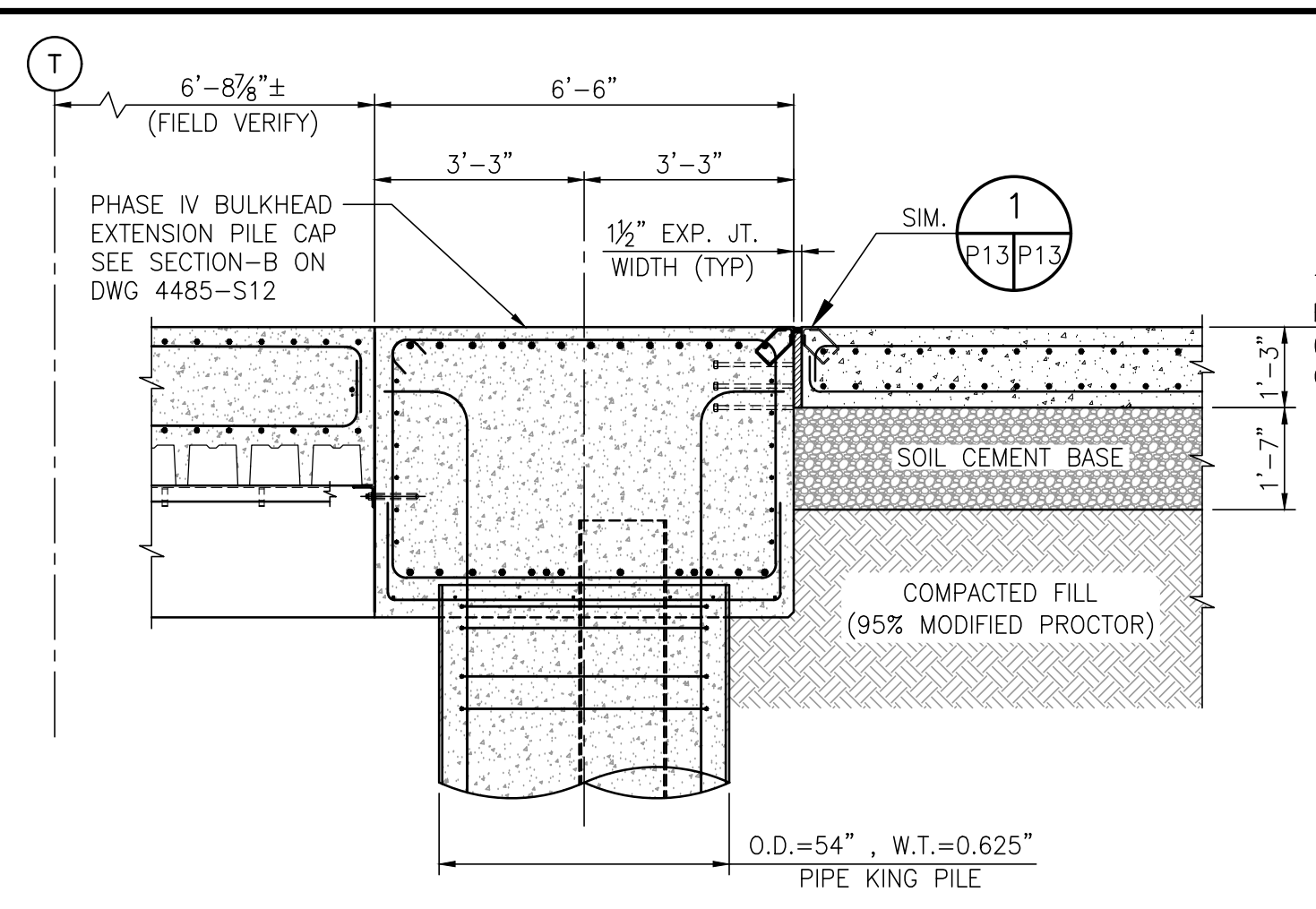


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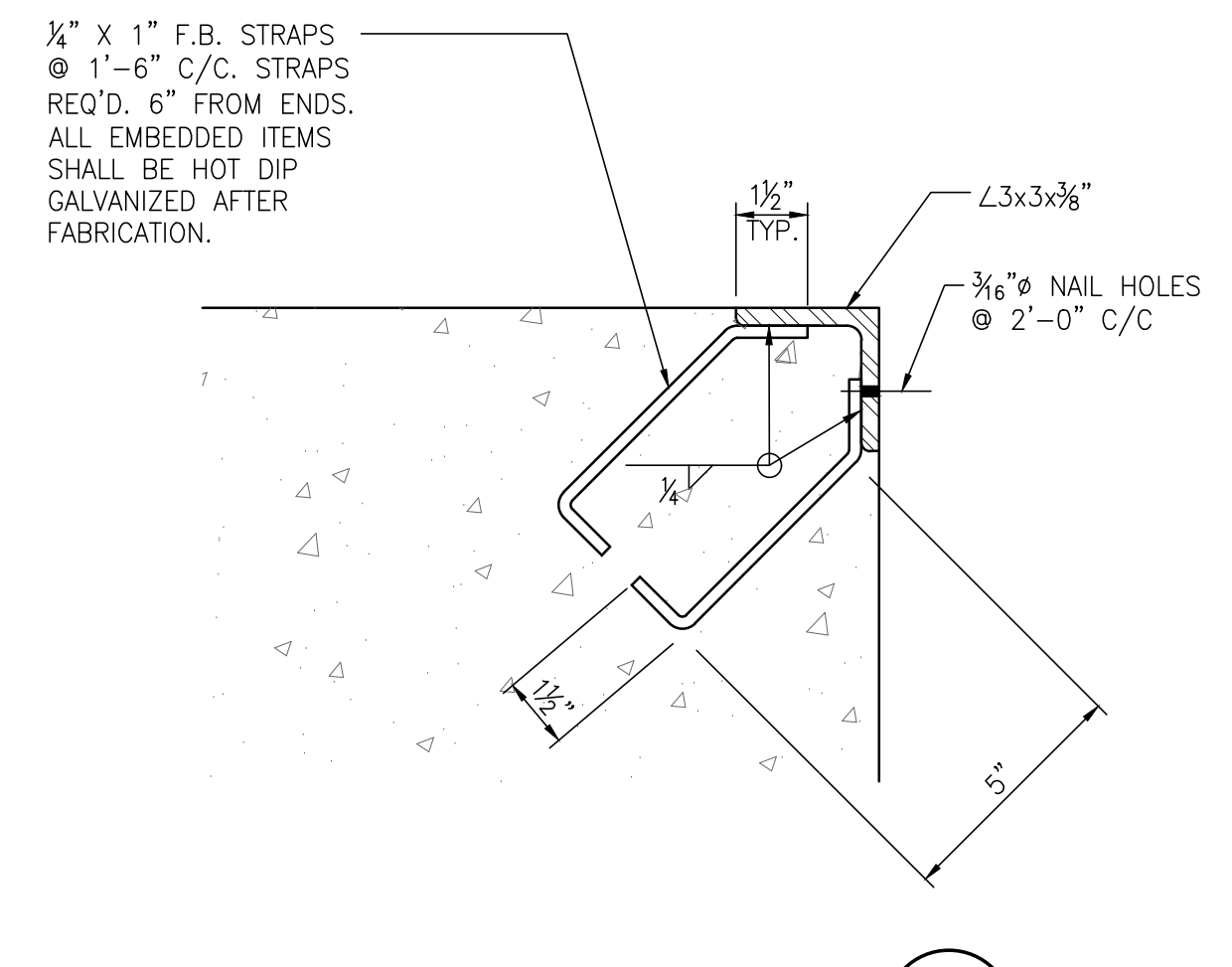
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24



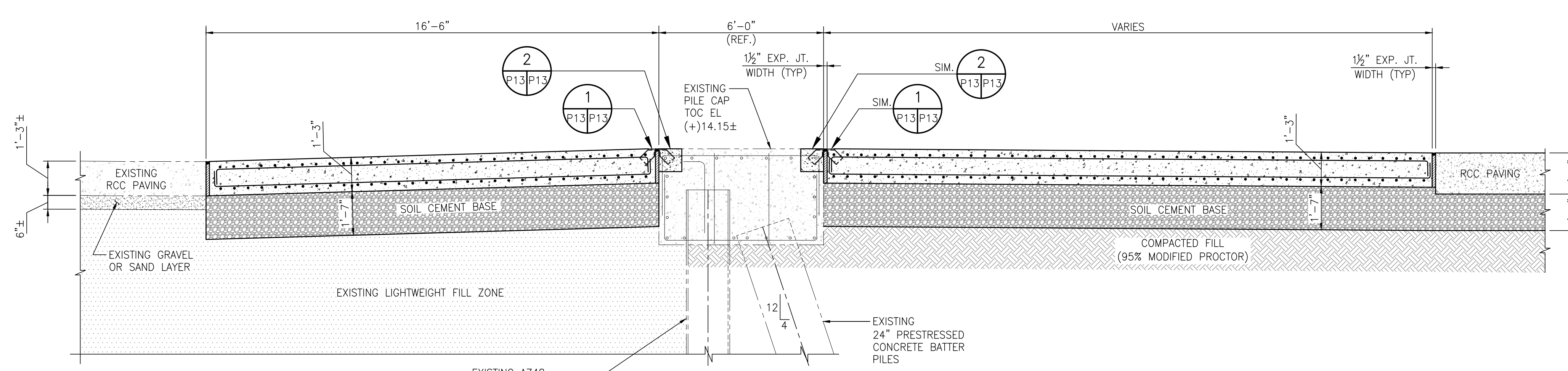
**SECTION A**  
P12/P13  
3/8"=1'-0"



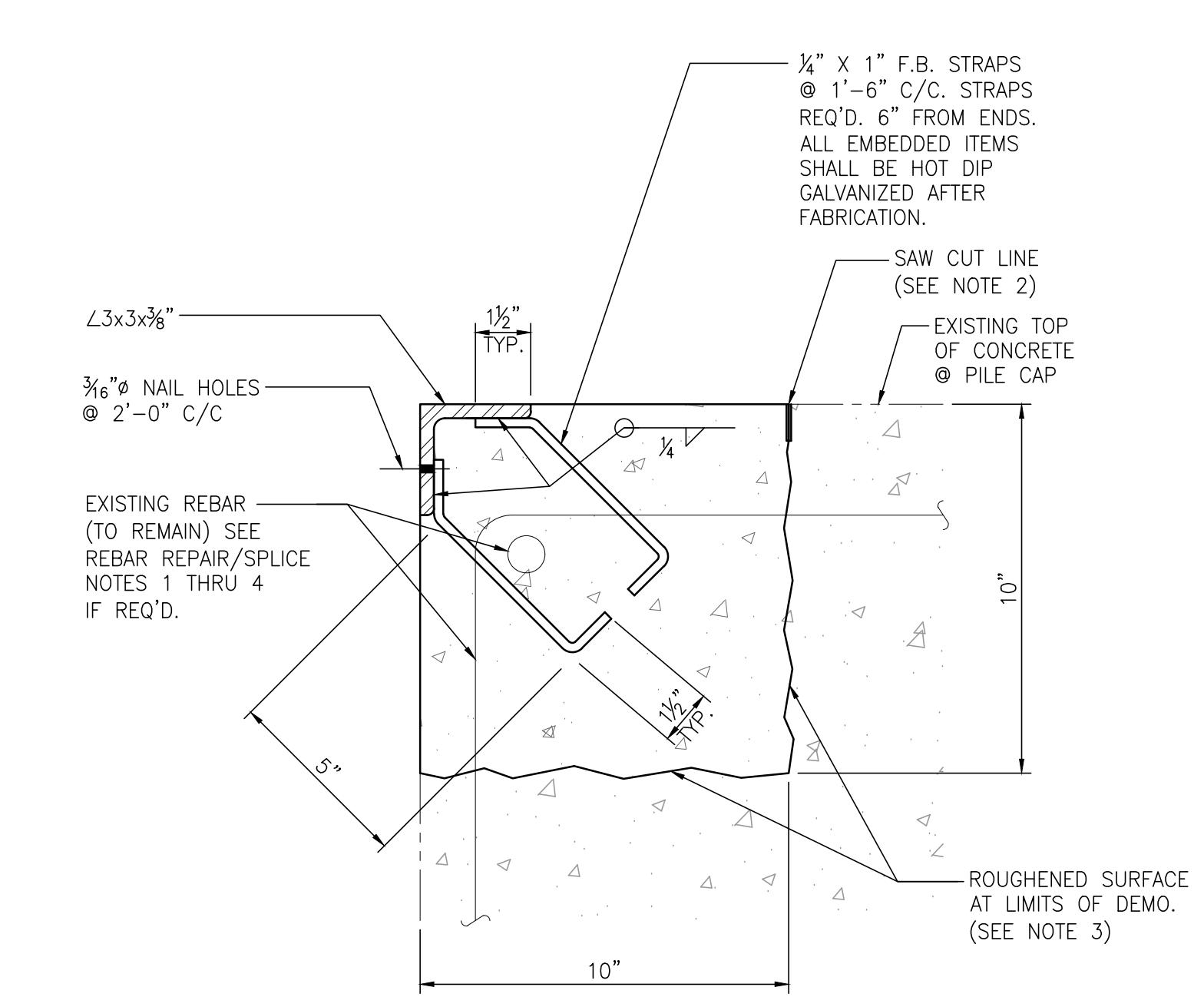
**SECTION C**  
P12/P13  
3/8"=1'-0"



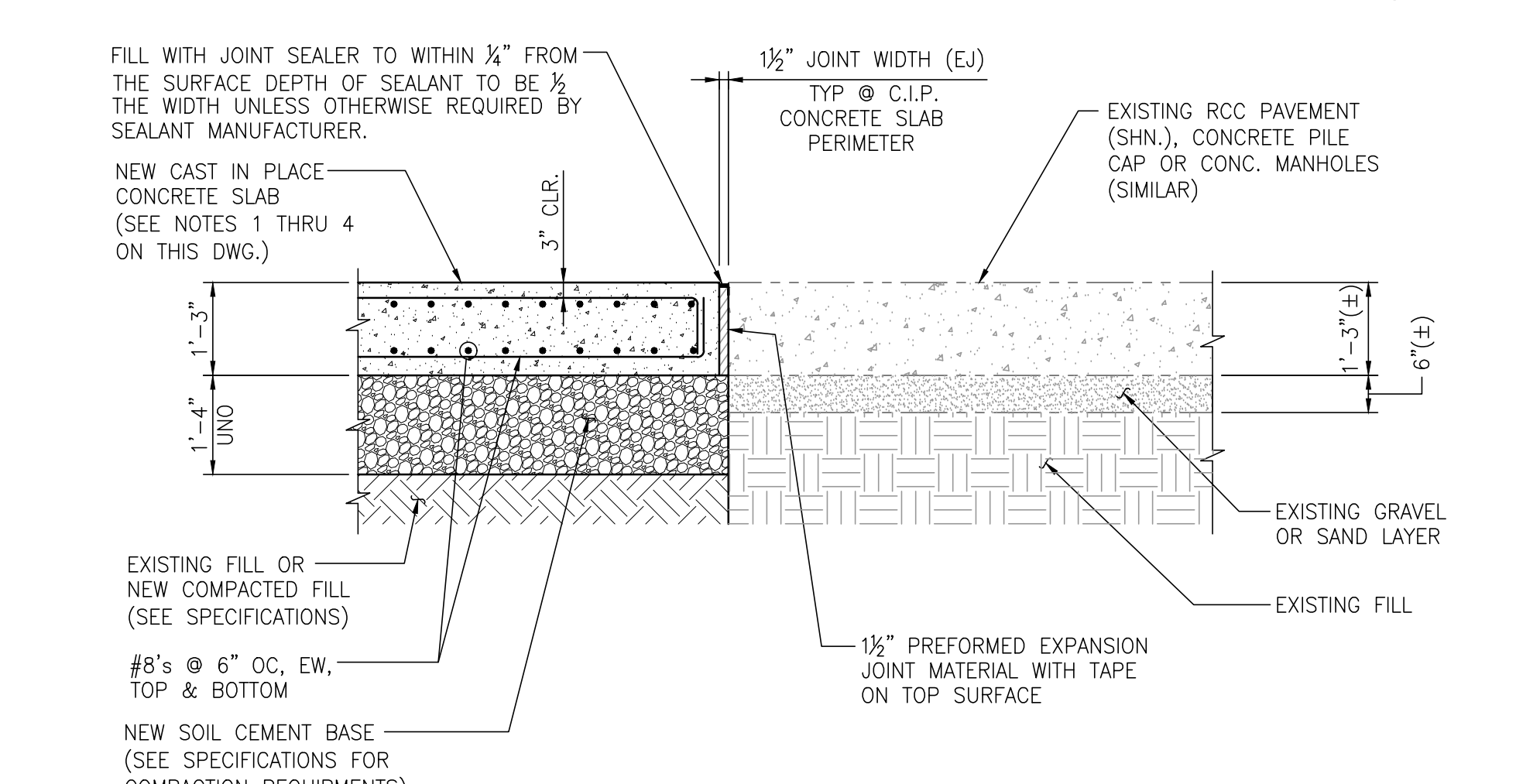
**EMBEDDED ANGLE DETAIL 1**  
S38/S38  
3"=1'-0"



**SECTION B**  
P12/P13  
3/8"=1'-0"



**EMBEDDED ANGLE DETAIL 2**  
S38/S38  
3"=1'-0"



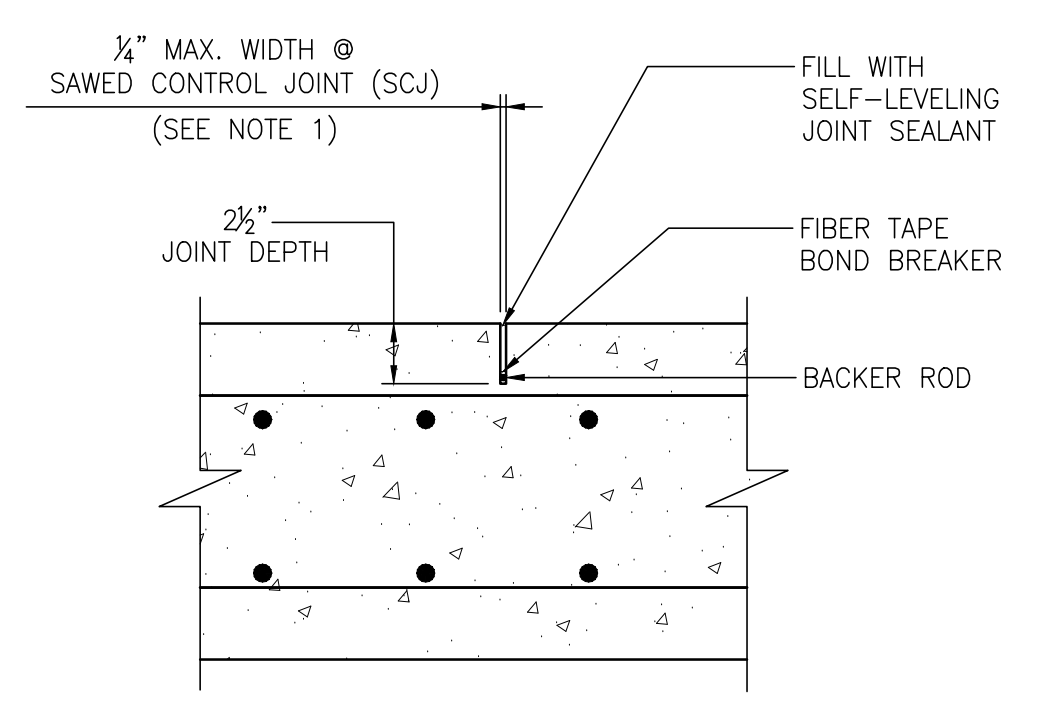
**SECTION BETWEEN NEW C.I.P. CONCRETE SLAB & EXISTING RCC PAVEMENT**  
1/2"=1'-0"

**C.I.P. CONCRETE SLAB NOTES:**

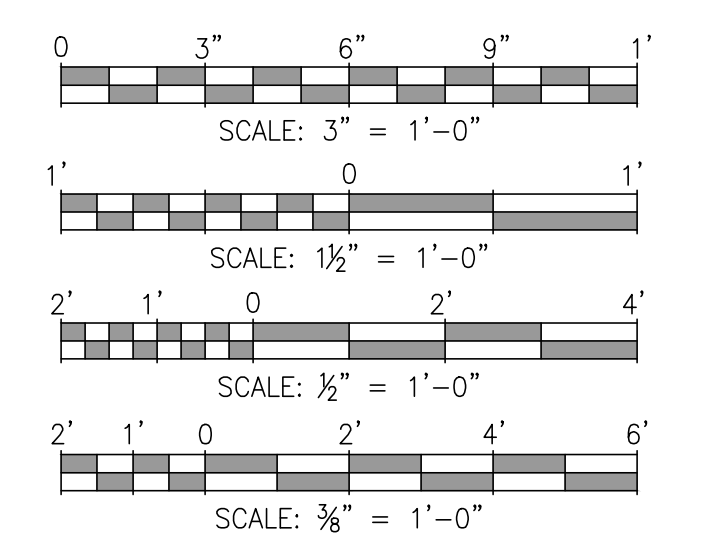
- SAWED CONTROL JOINTS SHALL BE SPACED IN THE TRANSVERSE/LONGITUDINAL DIRECTIONS OF NEW C.I.P. CONCRETE SLAB AS DESCRIBED IN THE PROJECT SPECIFICATION.
- TOP OF CONCRETE ELEVATIONS AT NEW C.I.P. CONCRETE SLAB PERIMETER SHALL MATCH TOP OF CONCRETE ELEVATIONS AT NEW/EXISTING RCC PAVEMENT & NEW/EXISTING CONCRETE PILE CAPS. TOP OF CONCRETE ELEVATIONS INSIDE OF PERIMETER SHALL BE SET AS SHOWN IN PLANS OR AS REQUIRED TO MATCH EXISTING CONDITIONS FOR PROPER DOCK ACCESS AND/OR STORM WATER RUNOFF.
- C.I.P. CONCRETE SLAB SHALL HAVE A BROOM FINISH AS DESCRIBED IN THE PROJECT SPECIFICATION.
- ALL RE-ENTRANT CORNERS OF NEW C.I.P. CONCRETE SLAB TO RECEIVE (2)-ADDT'L. #6 BARS X 4'-0" LONG TOP & BOTTOM.

**EXISTING REBAR REPAIR/SPlice NOTES:**

- CONTRACTOR SHALL USE EXTREME CARE TO NOT CUT OR REMOVE ANY BARS UNLESS ABSOLUTELY NECESSARY IN ORDER TO FULLY REMOVE INDICATED CONCRETE AS REQ'D. INSTALL NEW EMBEDDED ANGLES AT EXISTING PILECAP OR INSTALL TRANSITION SLAB AS NOTED ON THE DRAWINGS. IF BARS ARE REMOVED OR CUT THEY SHALL BE REPLACED IN KIND AND LAP SPliced WITH THE APPROPRIATE LAP SPlice LENGTH OR BY USING A MECHANICAL SPlice BY BARSPLICE PRODUCTS INC. AS APPROVED BY THE ENGINEER.
- MECHANICAL SPlices SHALL BE ZAP SCREWLOK TYPE 2 BY BARSPLICE PRODUCTS INC. OR APPROVED EQUAL AND SHALL BE INSTALLED IN STRICT ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS.
- REBAR SHALL BE SAW CUT. FLAME CUTTING OF REBAR IS NOT ALLOWED.



**SAWED CONTROL JOINT (SCJ)**  
1 1/2"=1'-0" LONGITUDINAL OR TRANSVERSE



NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- REMOVAL OF EXISTING CONCRETE SHALL BEGIN WITH SAW CUTTING A JOINT IN THE TOP OF EXISTING CONCRETE AS SHOWN IN DETAIL 2 ON THIS DRAWING TO PREVENT SPALLING OF EXISTING CONCRETE EDGES. SAW CUT JOINTS SHALL BE TAKEN AT A DEPTH TO AVOID CUTTING EXISTING REBAR.
- ROUGHEN SURFACE OF EXISTING CONCRETE TO A FULL AMPLITUDE OF APPROX. 1/4" PRIOR TO PLACING NEW CONCRETE. SIKADUR 32 HI-MOD LPL BONDING AGENT SHALL BE APPLIED TO ALL CLEAN ROUGHENED SURFACES.

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	RST	MED	RSG

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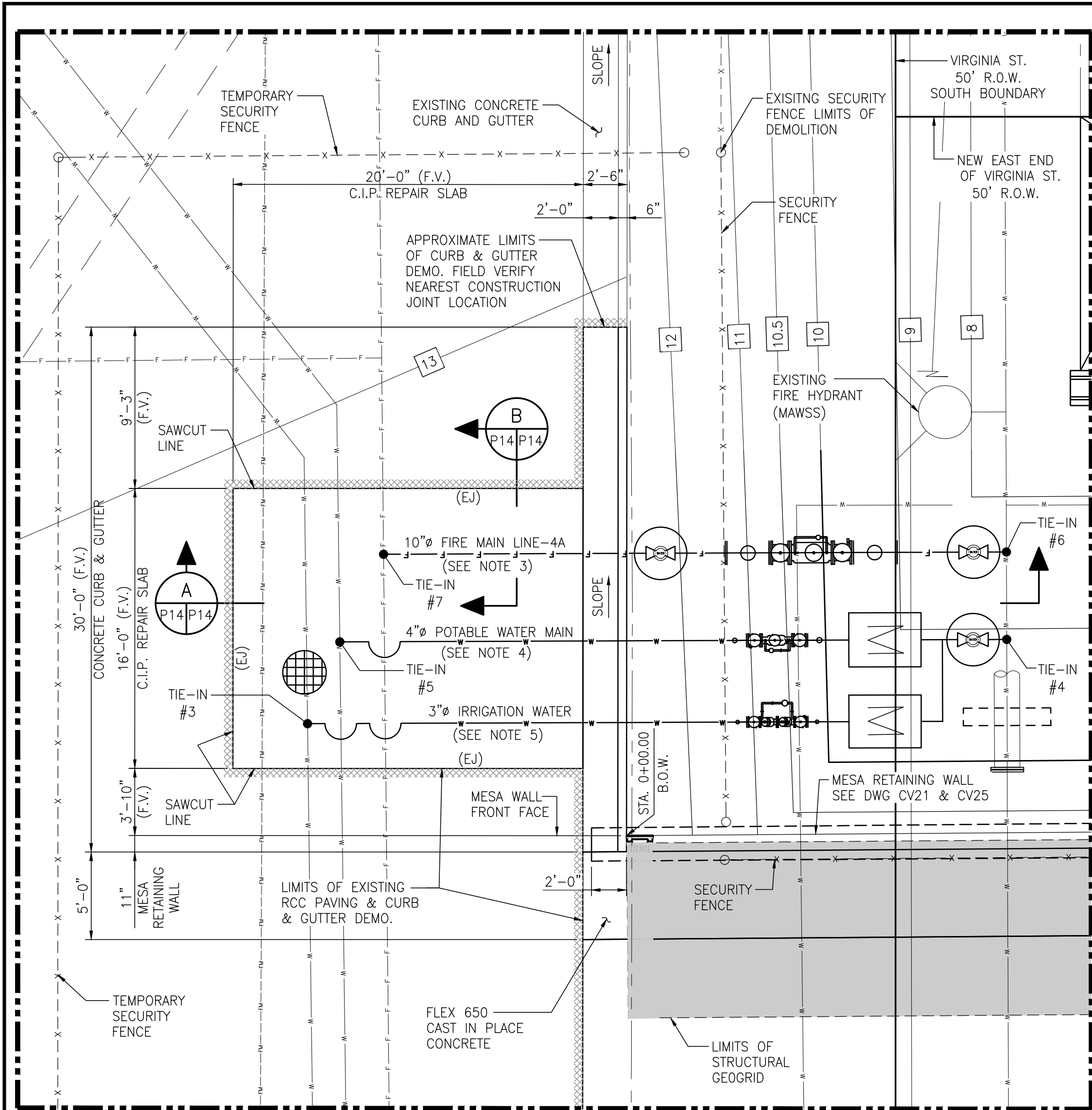
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

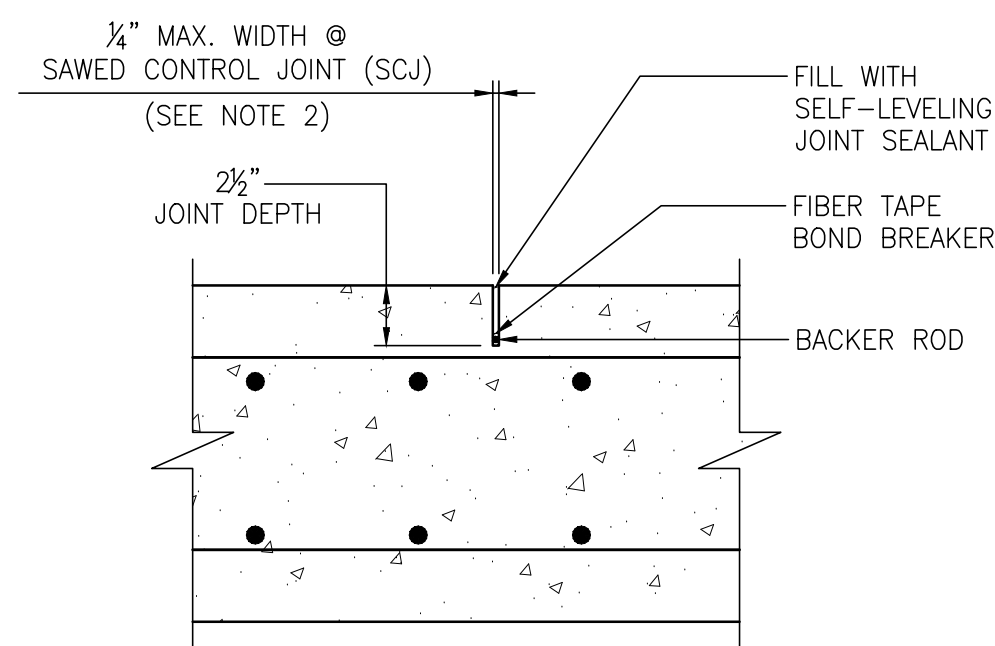
APMT PHASE IV YARD EXPANSION  
NORTH BULKHEAD PILE CAP TO RCC PAVING  
C.I.P. TRANSITION SLAB SECTIONS & DETAILS

FOR: ALABAMA PORT AUTHORITY

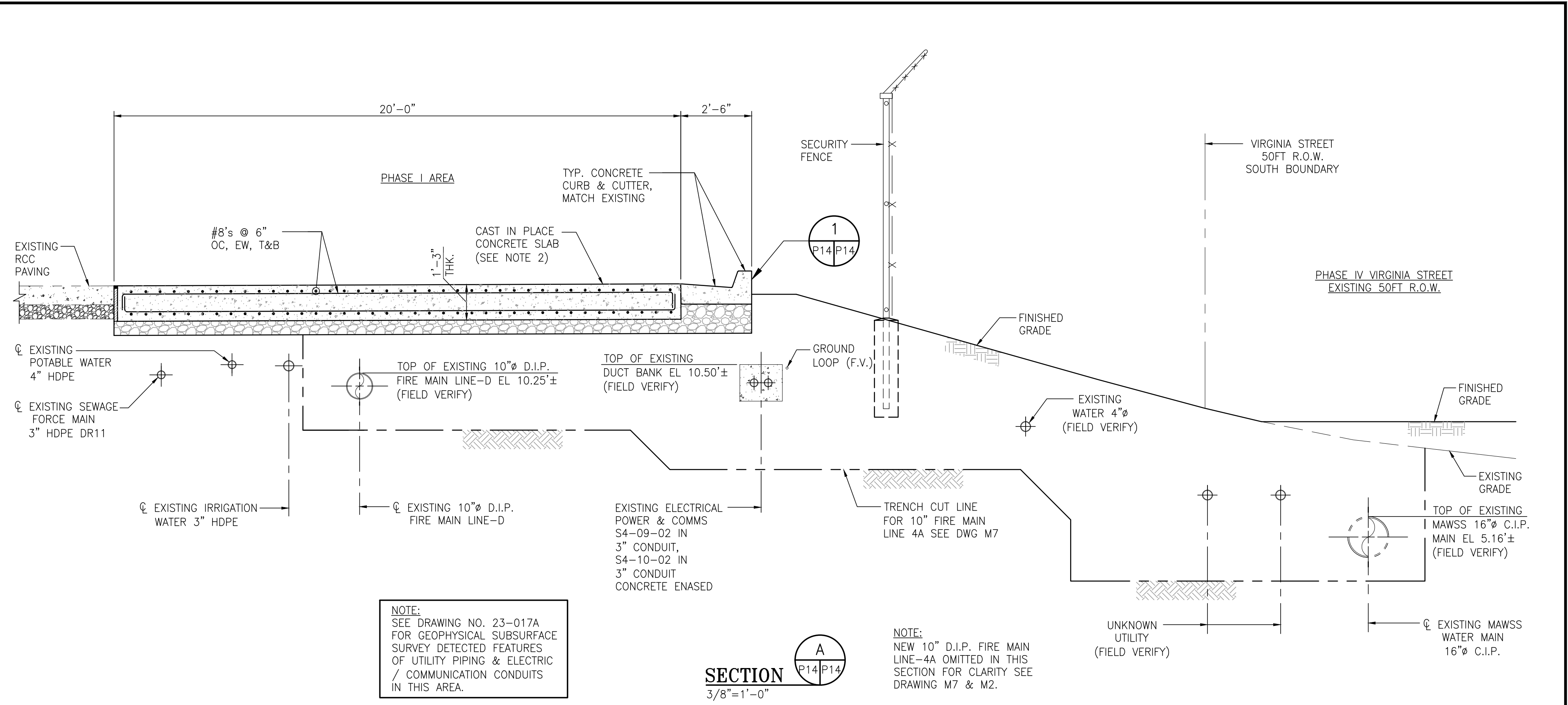
PROJECT NO: 4484  
DWG NO: P13  
REV: A



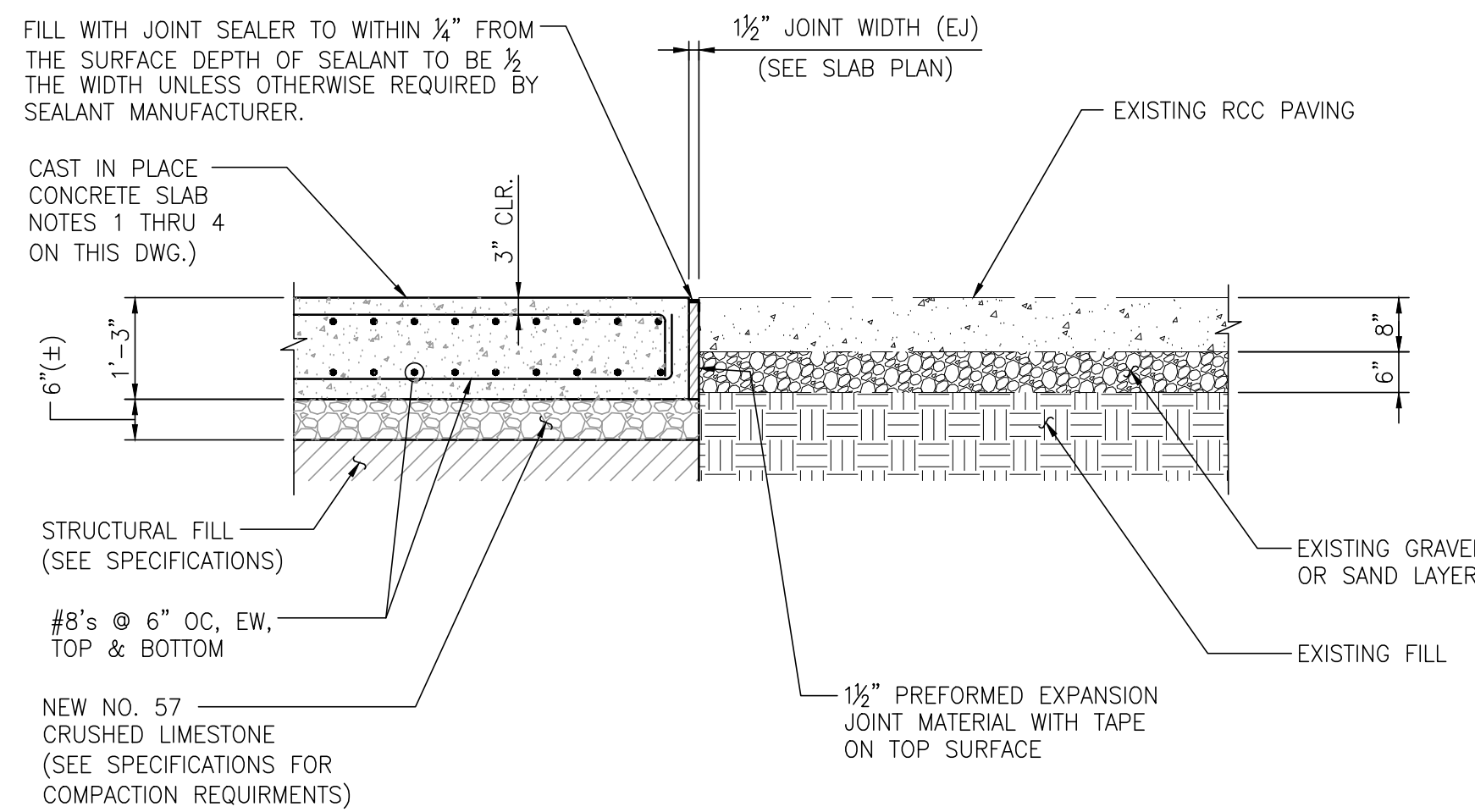
**C.I.P. REPAIR SLAB PLAN**  
 3/8" = 1'-0" (SEE NOTE 2)



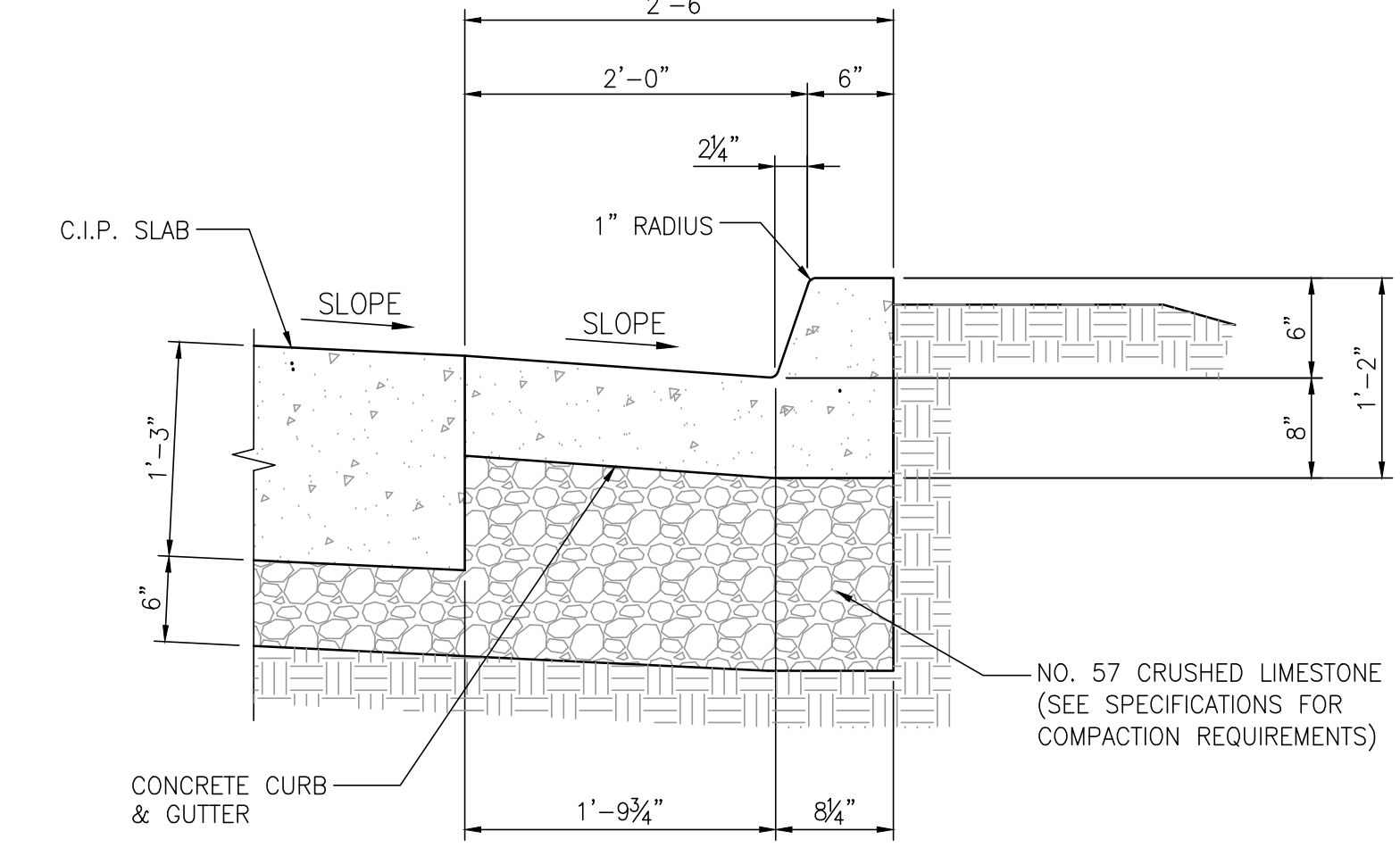
**SAWED CONTROL JOINT (SCJ)**  
 1/2" = 1'-0" LONGITUDINAL OR TRANSVERSE



**SECTION 1**  
 3/8" = 1'-0"



**SECTION 2**  
 1/2" = 1'-0"



**TYP. CONCRETE CURB & GUTTER-DETAIL**  
 1" = 1'-0"

- NOTES**
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWING P13 FOR TYPICAL CAST IN PLACE SLAB AND SAWED CONTROL JOINT PLACEMENT NOTES.
  - SEE DRAWINGS M2 & M7 FOR FIRE WATER MAIN LINE-4A PIPING INSTALLATION DETAILS.
  - SEE DRAWINGS U1 & U2 FOR POTABLE WATER MAIN PIPING INSTALLATION DETAILS.
  - SEE DRAWINGS U1 & U3 FOR IRRIGATION WATER PIPING INSTALLATION DETAILS.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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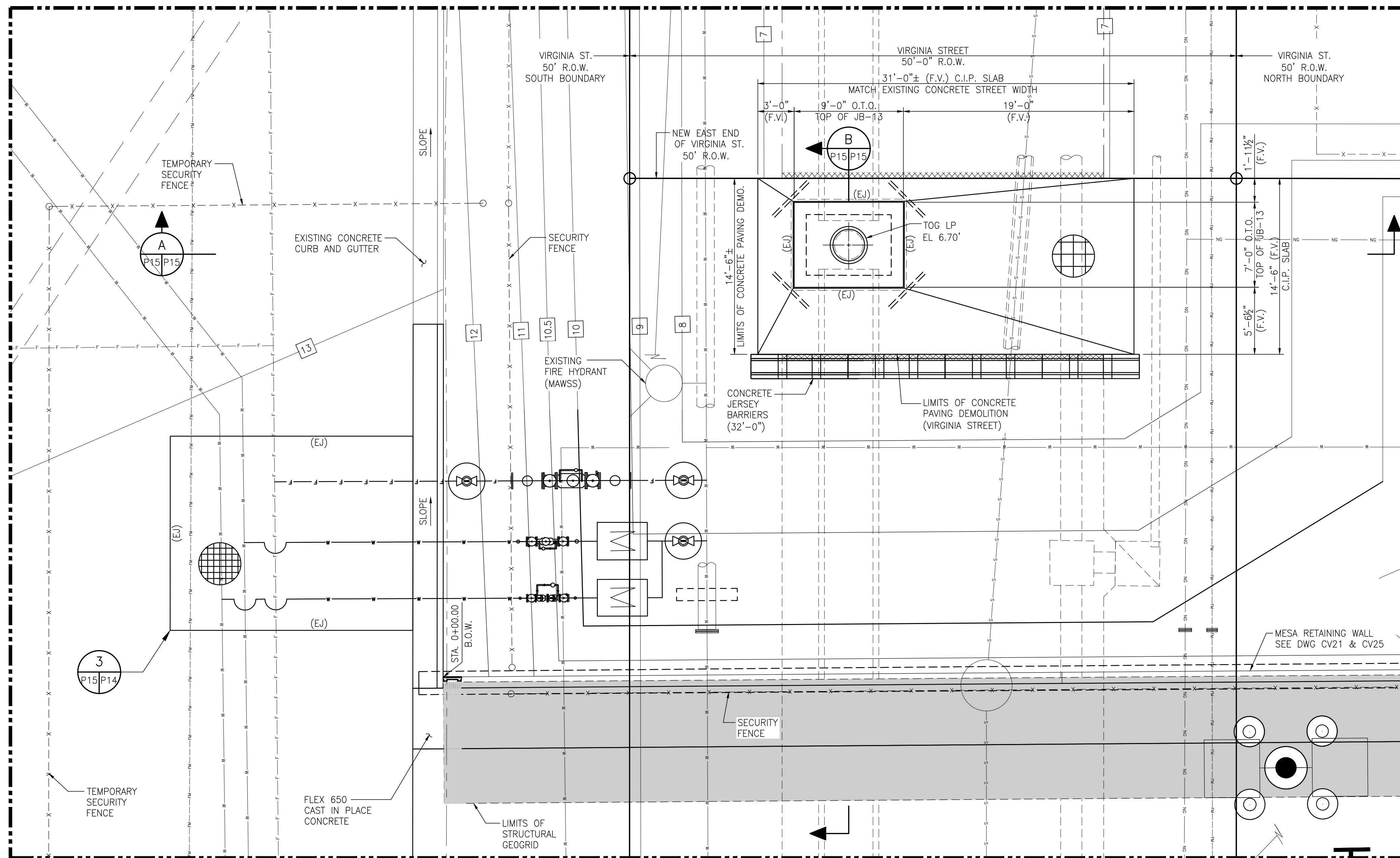
**ALABAMA PORT AUTHORITY**  
 PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

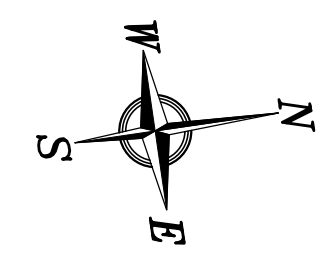
APMT PHASE IV YARD EXPANSION  
 RELOCATED MAIN & UTILITY WATER TIE-INS  
 C.I.P. REPAIR SLAB - PLAN, SECTIONS & DETAILS

FOR: ALABAMA PORT AUTHORITY





**JB-13 AREA C.I.P. SLAB-PLAN**  
 3/8"=1'-0" (SEE NOTE 2)



**NOTES**

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- SEE DRAWING P13 FOR TYPICAL CAST IN PLACE SLAB AND SAWED CONTROL JOINT PLACEMENT NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24



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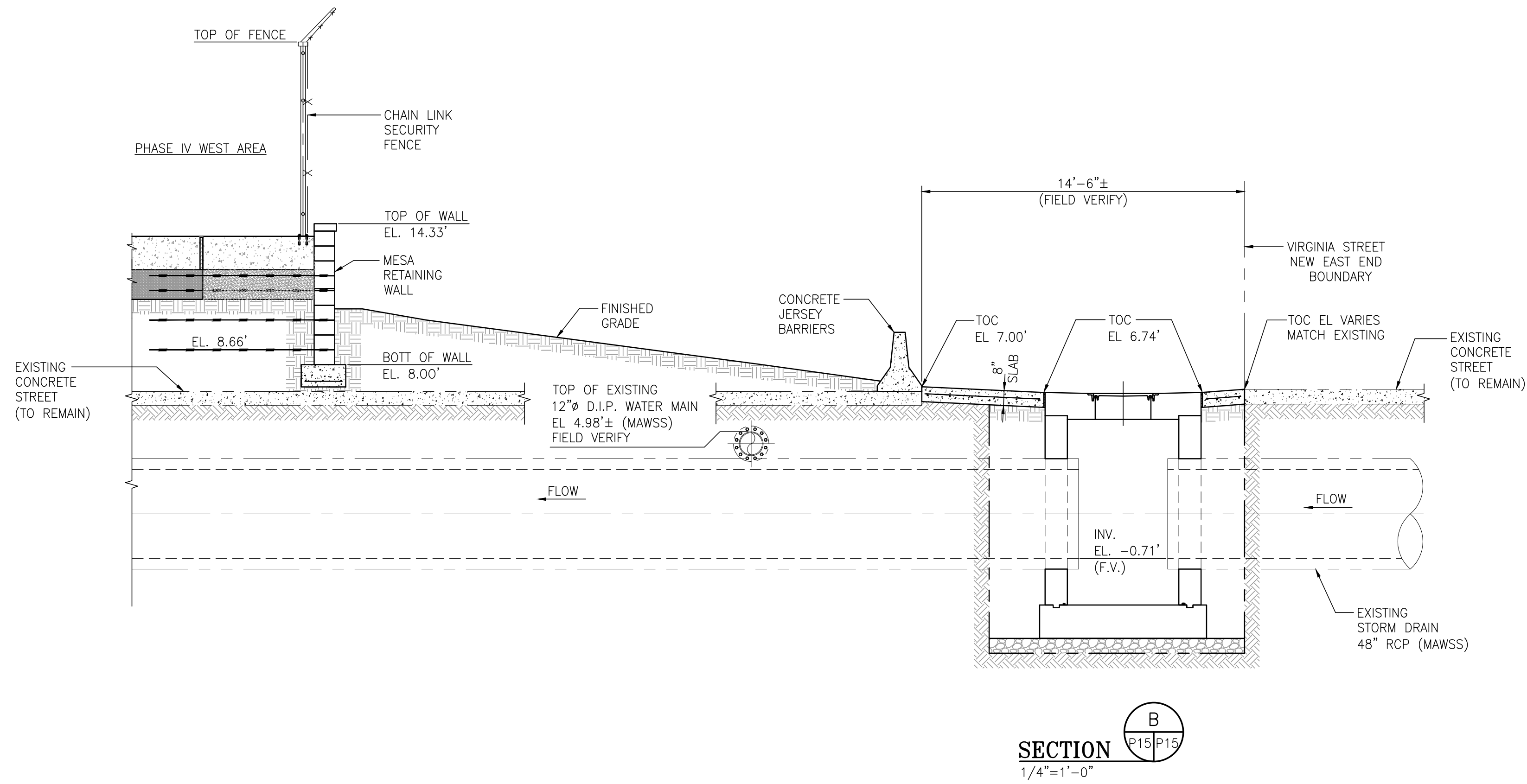
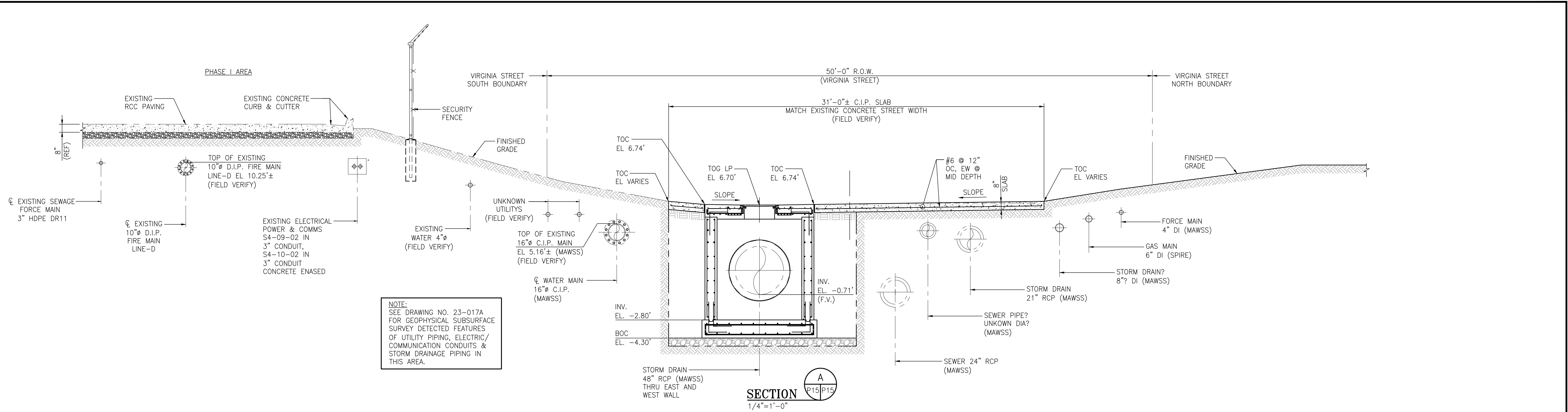


ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
 JB-13 AREA PAVING  
 C.I.P. SLAB - PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: P15 REV: A



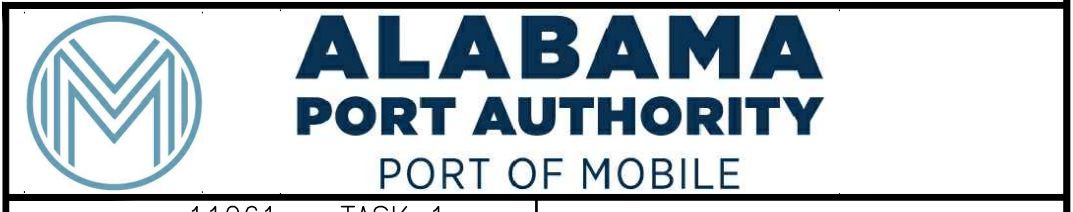
NOTE:  
SEE DRAWING NO. 23-017A  
FOR GEOPHYSICAL SUBSURFACE  
SURVEY DETECTED FEATURES  
OF UTILITY PIPING, ELECTRIC/  
COMMUNICATION CONDUITS &  
STORM DRAINAGE PIPING IN  
THIS AREA.

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWING P13 FOR TYPICAL CAST IN PLACE SLAB AND SAWED CONTROL JOINT PLACEMENT NOTES.

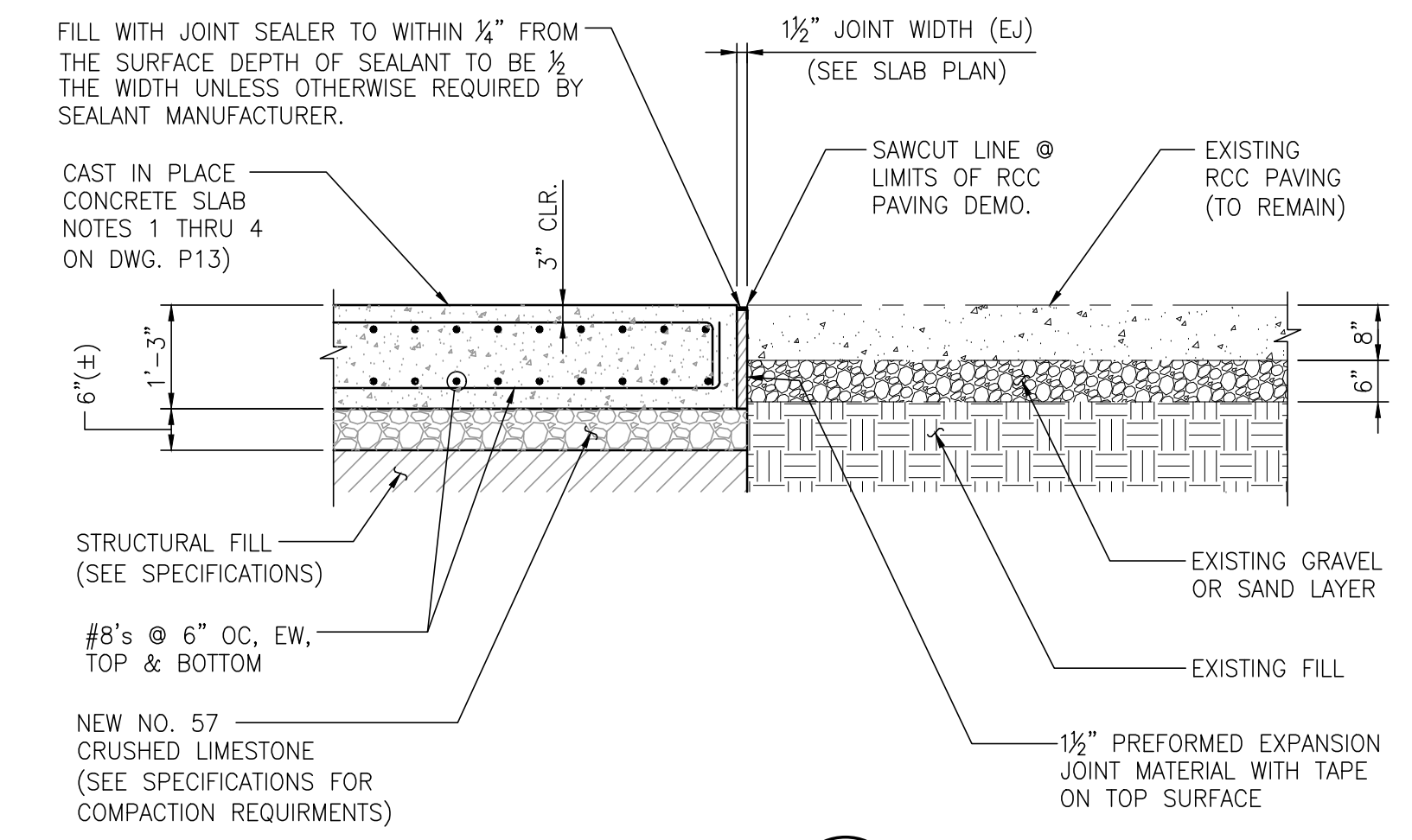
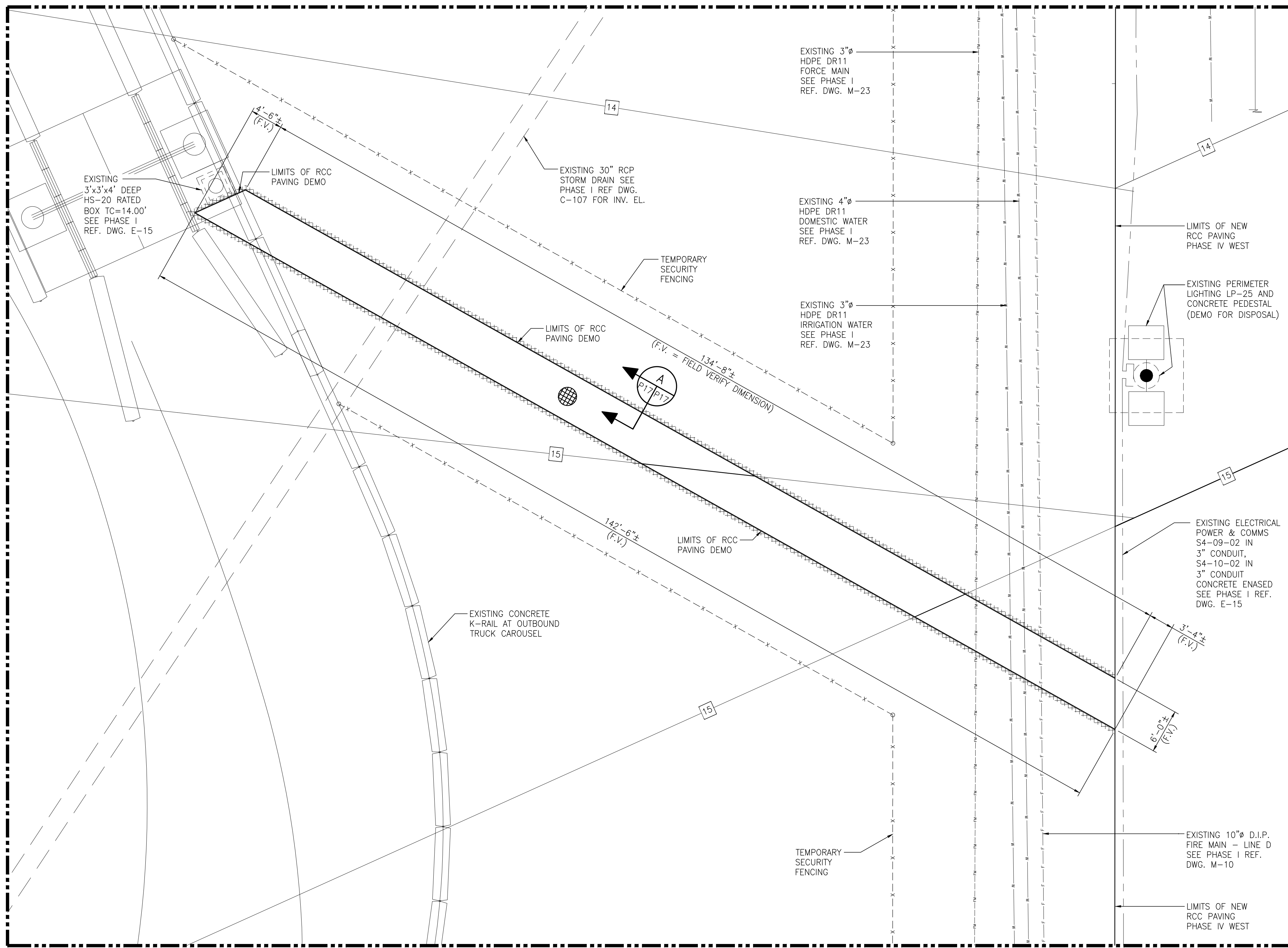
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24



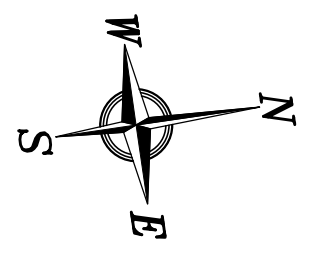
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ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:  
 APMT PHASE IV YARD EXPANSION  
 JB-13 AREA PAVING  
 C.I.P. SLAB - SECTIONS  
 FOR: ALABAMA PORT AUTHORITY  
 PROJECT NO: 4484 | DWG NO: P16 | REV: A



**C.I.P. REPAIR SLAB PLAN**  
 1/8"=1'-0" (SEE NOTE 2, 3 & 4)



- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWING P13 FOR TYPICAL CAST IN PLACE SLAB NOTES AND SAWED CONTROL JOINT PLACEMENT NOTES.
  - FOR NEW PHASE IV POWER, LIGHTING AND COMMUNICATION NOT SHOWN IN THIS PLAN SEE PARTIAL ELECTRICAL SITE PLAN ON DRAWING E6.
  - FOR EXISTING POWER, LIGHTING AND COMMUNICATION NOT SHOWN IN THIS PLAN SEE PARTIAL ELECTRICAL AND COMMUNICATION PLAN ON PHASE I REFERENCE DRAWING E-15.

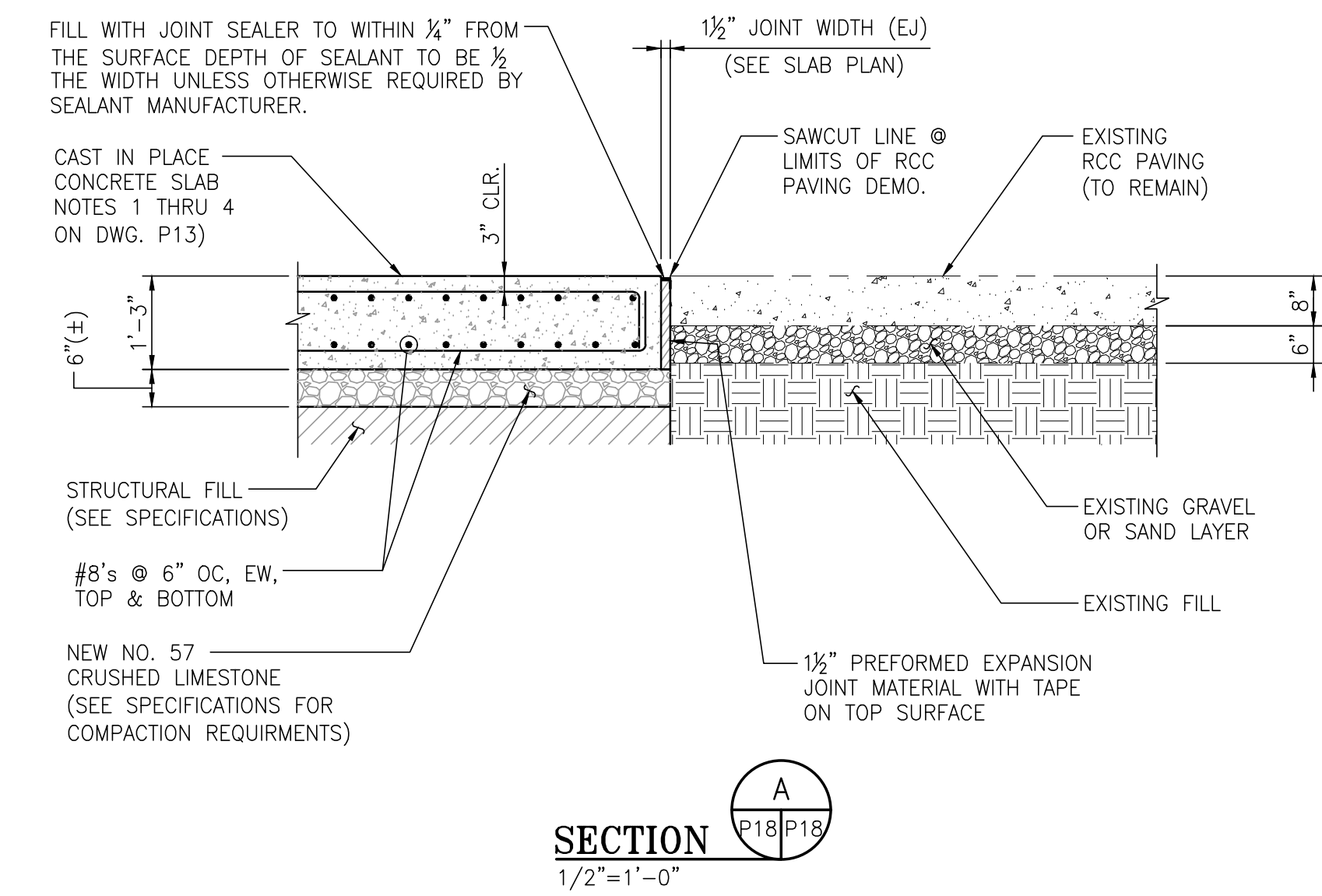
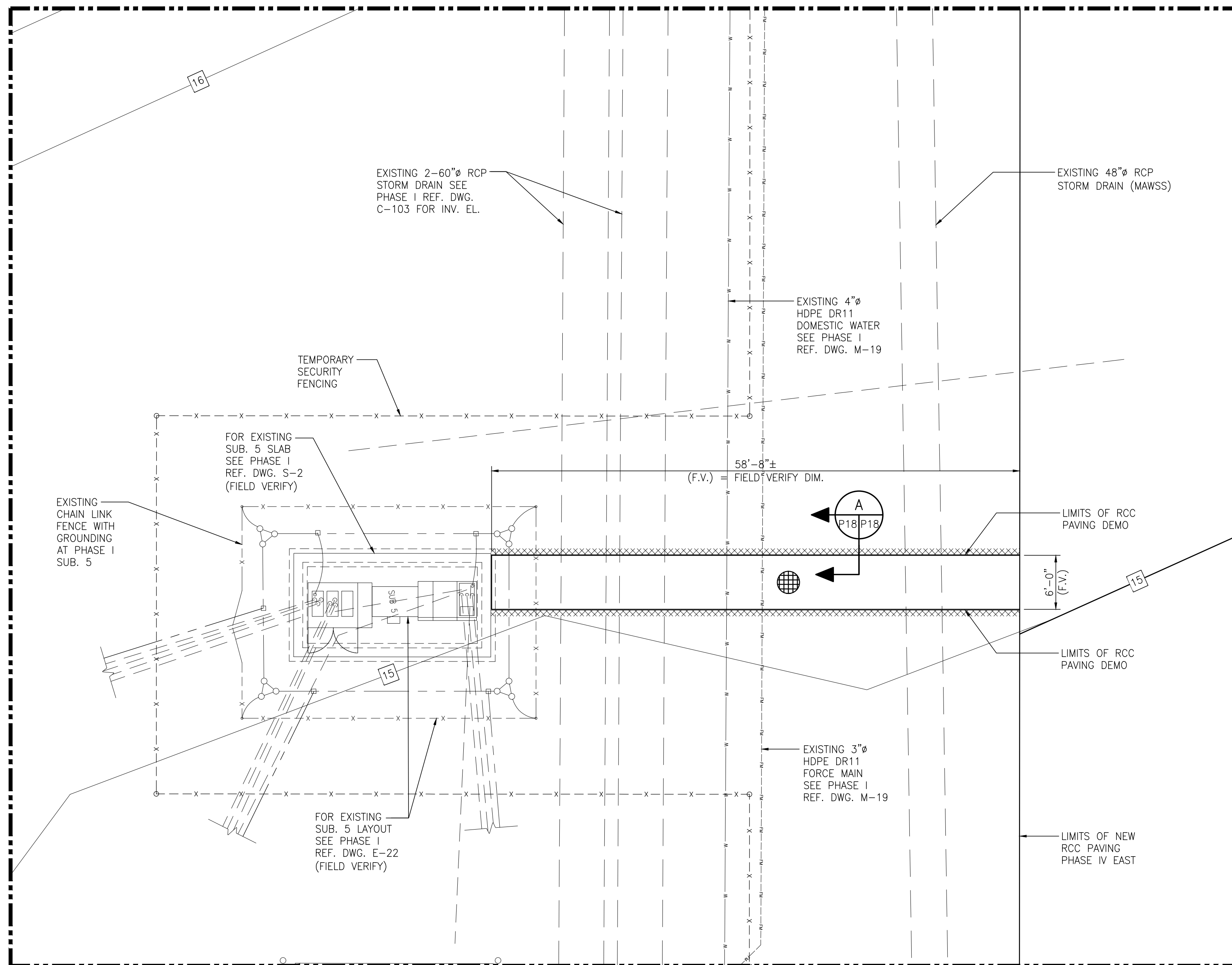
REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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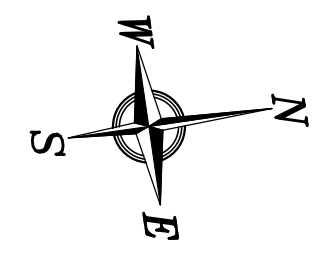
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**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1	ASPA DWG NO:
APMT PHASE IV YARD EXPANSION	
DUCT BANK TO OUTBOUND TRUCK CAROUSEL	
C.I.P. REPAIR SLAB - PLAN & SECTION	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: P17
DATE: 04/04/22	SCALE: NOTED
REV: A	



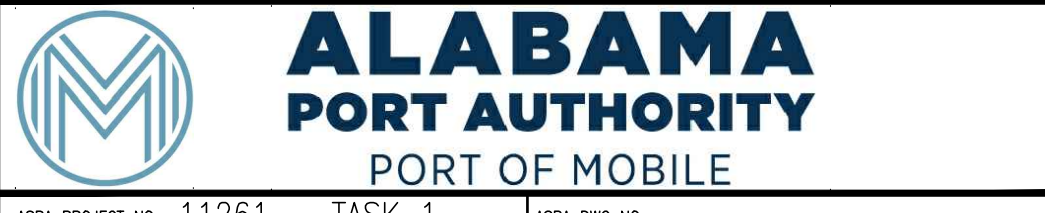
**C.I.P. REPAIR SLAB PLAN**  
 1/8"=1'-0" (SEE NOTE 2, 3 & 4)



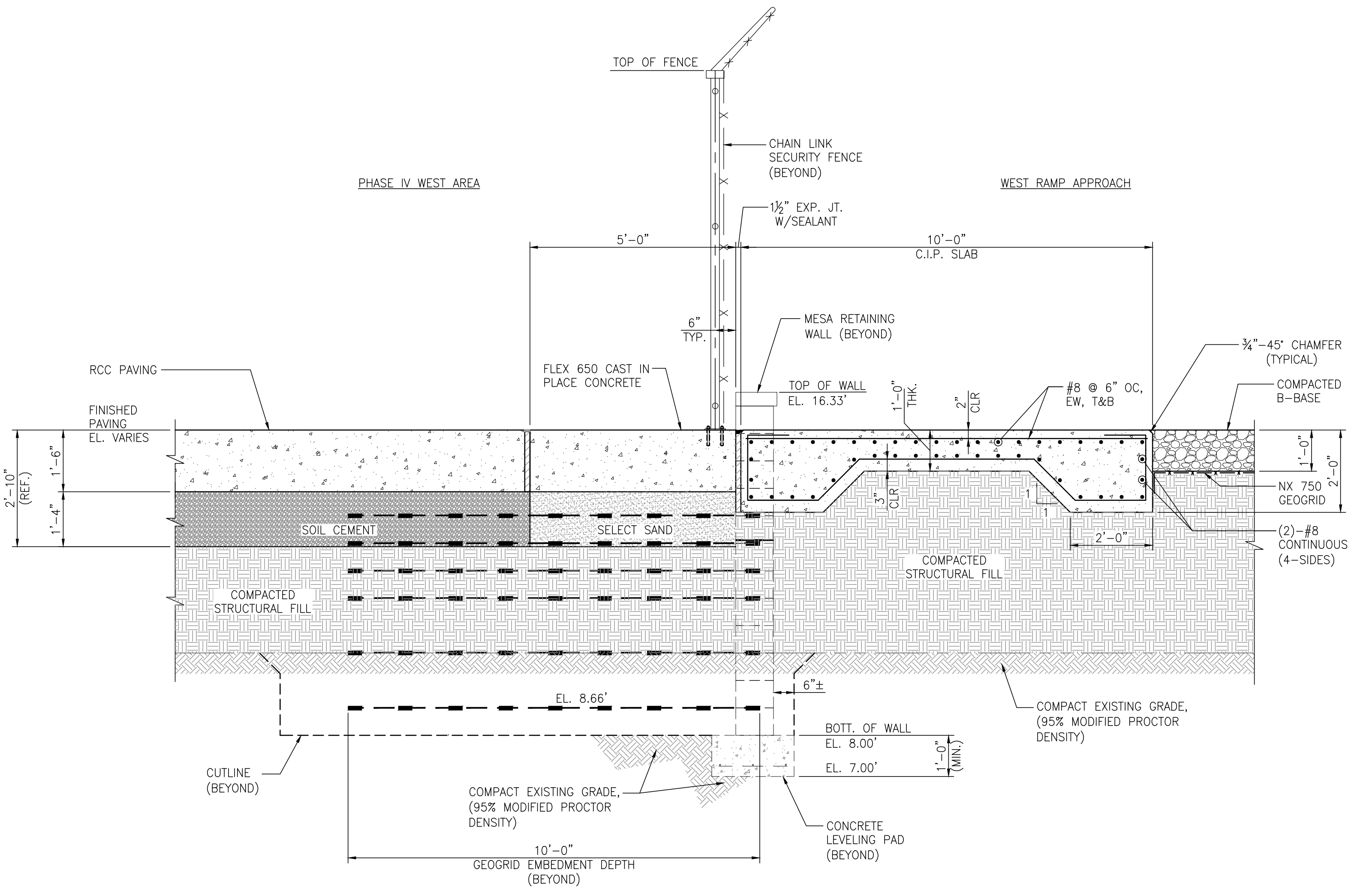
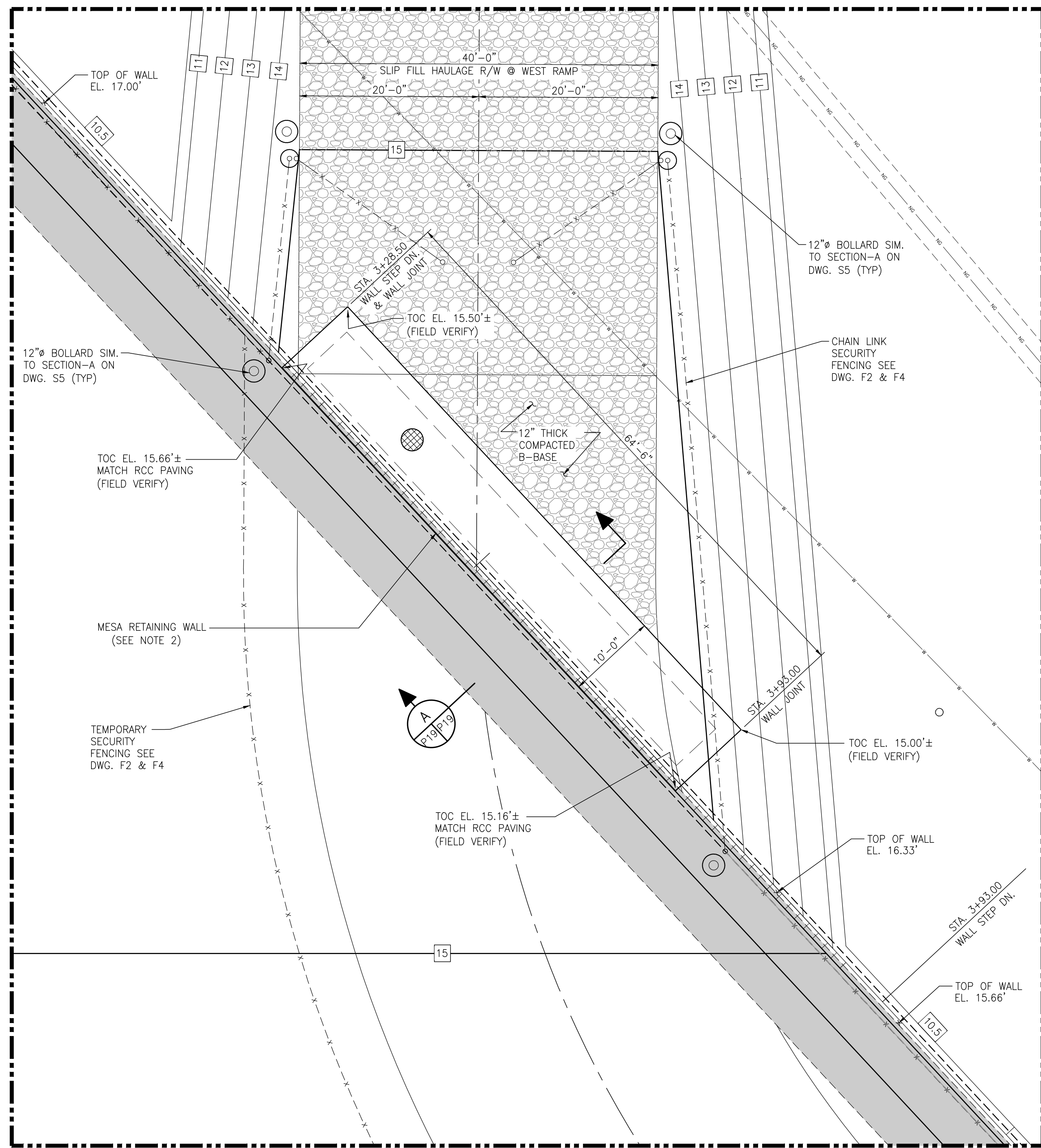
- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE DRAWING P13 FOR TYPICAL CAST IN PLACE SLAB NOTES AND SAWED CONTROL JOINT PLACEMENT NOTES.
  - FOR NEW PHASE IV POWER, LIGHTING AND COMMUNICATION NOT SHOWN IN THIS PLAN SEE PARTIAL ELECTRICAL SITE PLAN ON DRAWING E4.
  - FOR EXISTING POWER, LIGHTING AND COMMUNICATION NOT SHOWN IN THIS PLAN SEE PARTIAL ELECTRICAL AND COMMUNICATION PLAN ON PHASE I REFERENCE DRAWING E-11.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

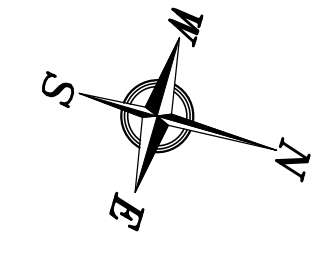
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ASPA PROJECT NO: 11261 - TASK 1	ASPA DWG NO:
APMT PHASE IV YARD EXPANSION	
DUCT BANK TO SUBSTATION 5	
C.I.P. REPAIR SLAB - PLAN & SECTION	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: P18
REV: A	



**WEST RAMP APPROACH C.I.P. SLAB PLAN**  
 7/8" = 1'-0"



**ALABAMA PORT AUTHORITY**  
 PORT OF MOBILE  
 ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE WEST RAMP TO MESA RETAINING WALL INTERFACE CROSS SECTION A-A ON DWG G12 FOR PHASED MESA RETAINING WALL AND RAMP WORK IN THIS AREA.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR REVIEW	RST	MED	RSG	04/05/24

**APTIM**  
 PORT SERVICES, LLC

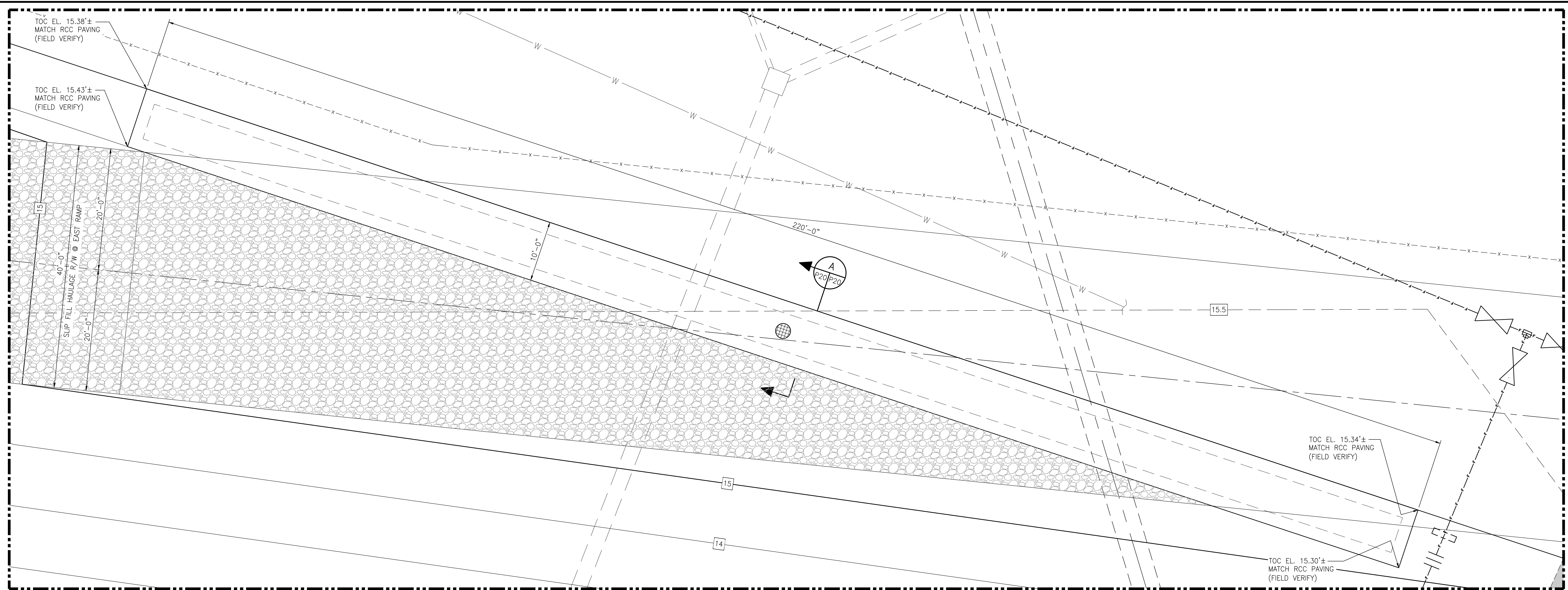
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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/04/22 SCALE: NOTED

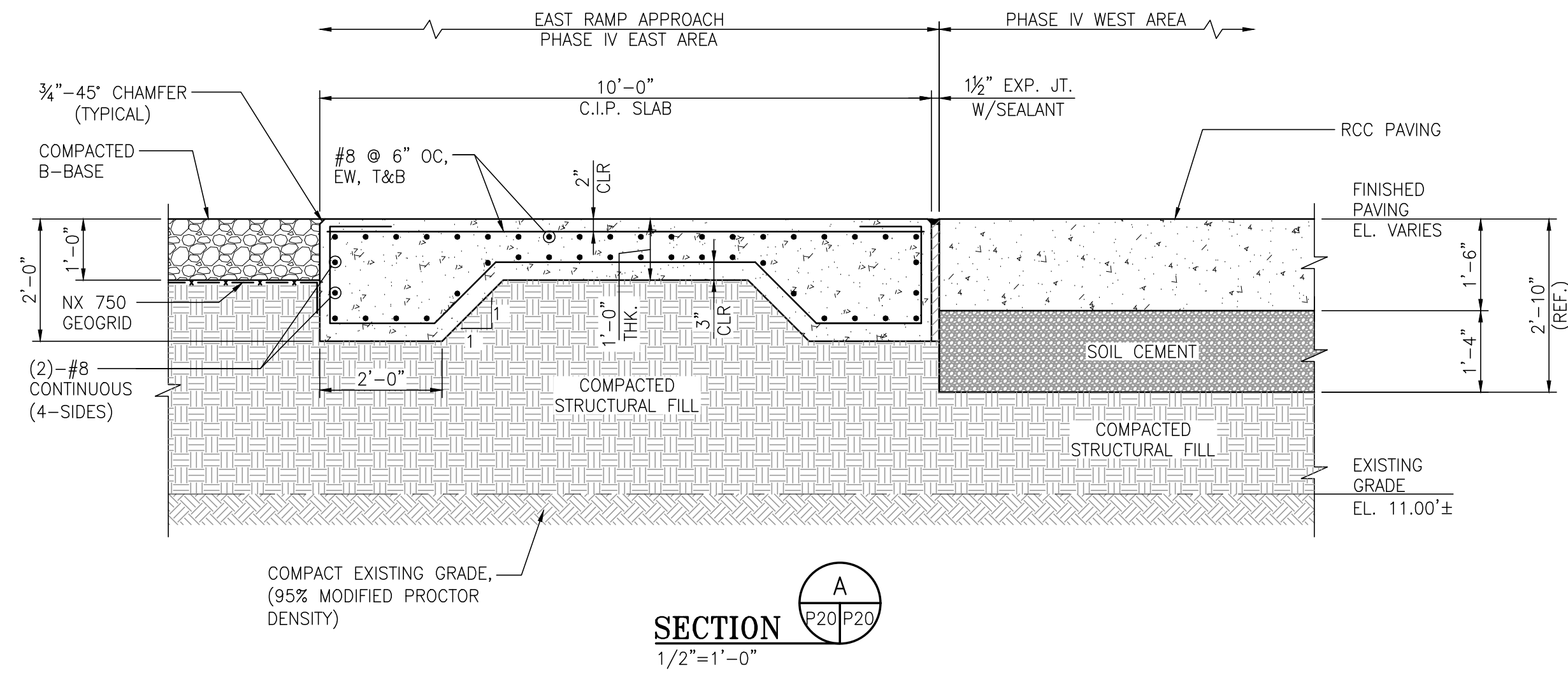
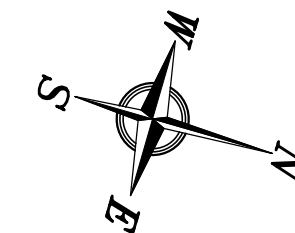
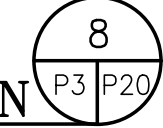
APMT PHASE IV YARD EXPANSION  
 HAULAGE ROAD WEST RAMP APPROACH  
 C.I.P. SLAB - PLAN & SECTION

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: P19 REV: A



**WEST RAMP APPROACH C.I.P. SLAB PLAN**  
 1/8"=1'-0"



**SECTION**  
 1/2"=1'-0"

NOTES

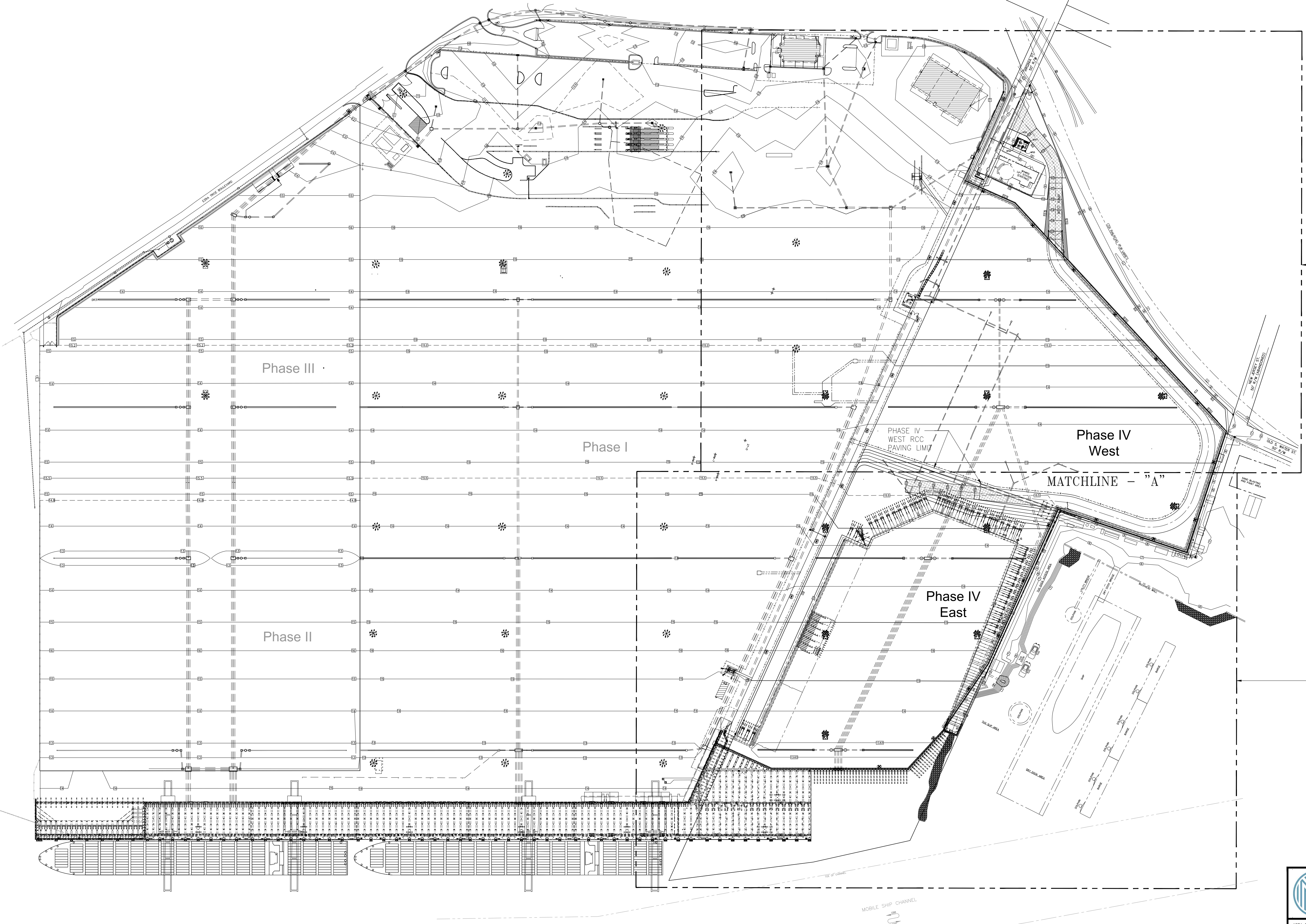
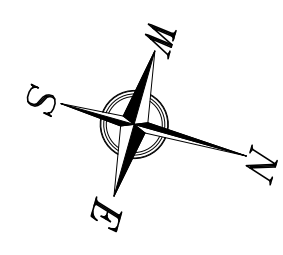
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR REVIEW	RST	MED	RSG	04/05/24

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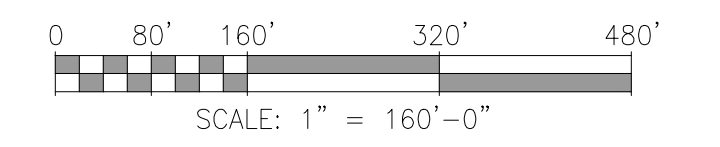
ASPA PROJECT NO: 11261 - TASK 1  
 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION	
HAULAGE ROAD EAST RAMP APPROACH	
C.I.P. SLAB - PLAN & SECTION	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: P20
REVISION	REV: A



FOR SECURITY FENCE  
PARTIAL PLAN SEE DWG F2


FOR SECURITY FENCE  
PARTIAL PLAN SEE DWG F3



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.  
2. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING FENCING WITH APMT TO MAINTAIN SECURE FACILITY.

NO.	REVISION	APPD.	DATE	DRAWN	CK'D	APPD.	DATE
A	ISSUED FOR BID	RST	04/05/24	RST	MED	RSG	04/05/24



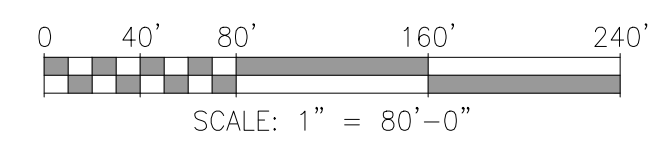
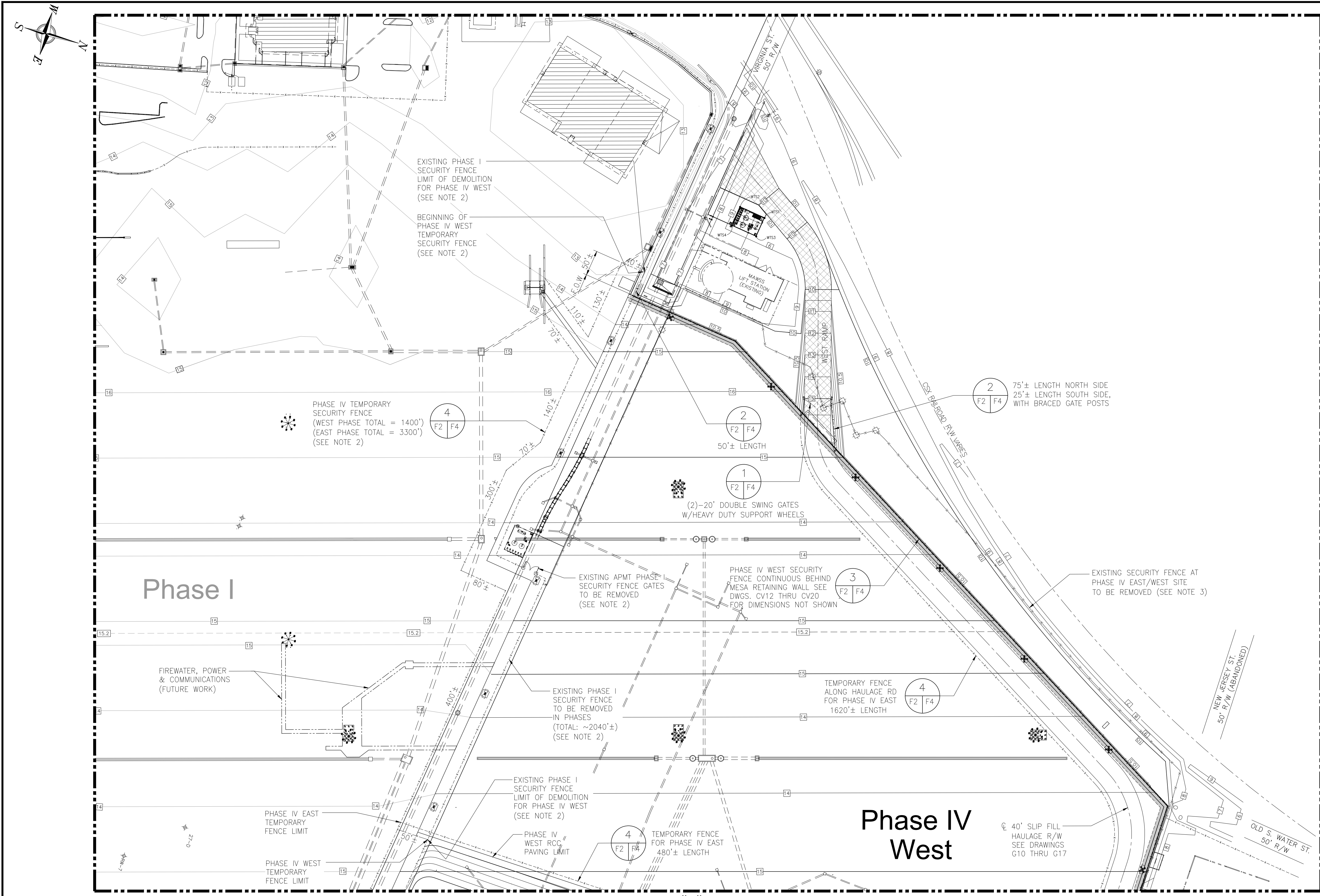
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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/24/23 SCALE: 1"=160'

APMT PHASE IV YARD EXPANSION  
SECURITY FENCE  
OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: F1 REV: A



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
 SECURITY FENCE  
 PARTIAL PLAN (SHT. 1 OF 2)

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: F2 REV: A

**NOTES**

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING PHASE I SECURITY FENCING WITH APMT TO MAINTAIN SECURE FACILITY.
- EXISTING 7'-0" TALL CYCLONE WIRE SECURITY FENCE LINES AT PHASE IV EAST/WEST SITE TO BE REMOVED AT BOUNDARIES WITH ABANDONED PORTION OF VIRGINIA STREET R/W (620'±), MAWSS LIFT STATION (140'±), CSX RAILROAD R/W (990'±), ENDS OF ABANDONED PORTION OF OLD S. WATER STREET R/W (90'±) & AUSTAL USA WEST CAMPUS SHIP REPAIR (1600'±). THE CONTRACTOR SHALL COORDINATE EXISTING FENCE REMOVAL AND MESA RETAINING WALL INSTALLATION WITH ADJOINING PROPERTY OWNERS REPRESENTATIVE TO MAINTAIN SECURE FACILITIES. CONTRACTOR/MESA WALL INSTALLER NOTE: ALL EXISTING ESTABLISHED CORNER POST AND PERMANENT SURVEYED CORNER MARKERS TO REMAIN IN PLACE.

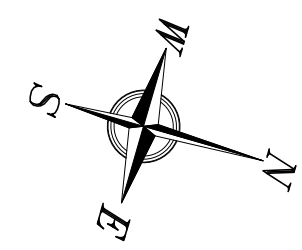
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24
REFERENCE DRAWINGS					



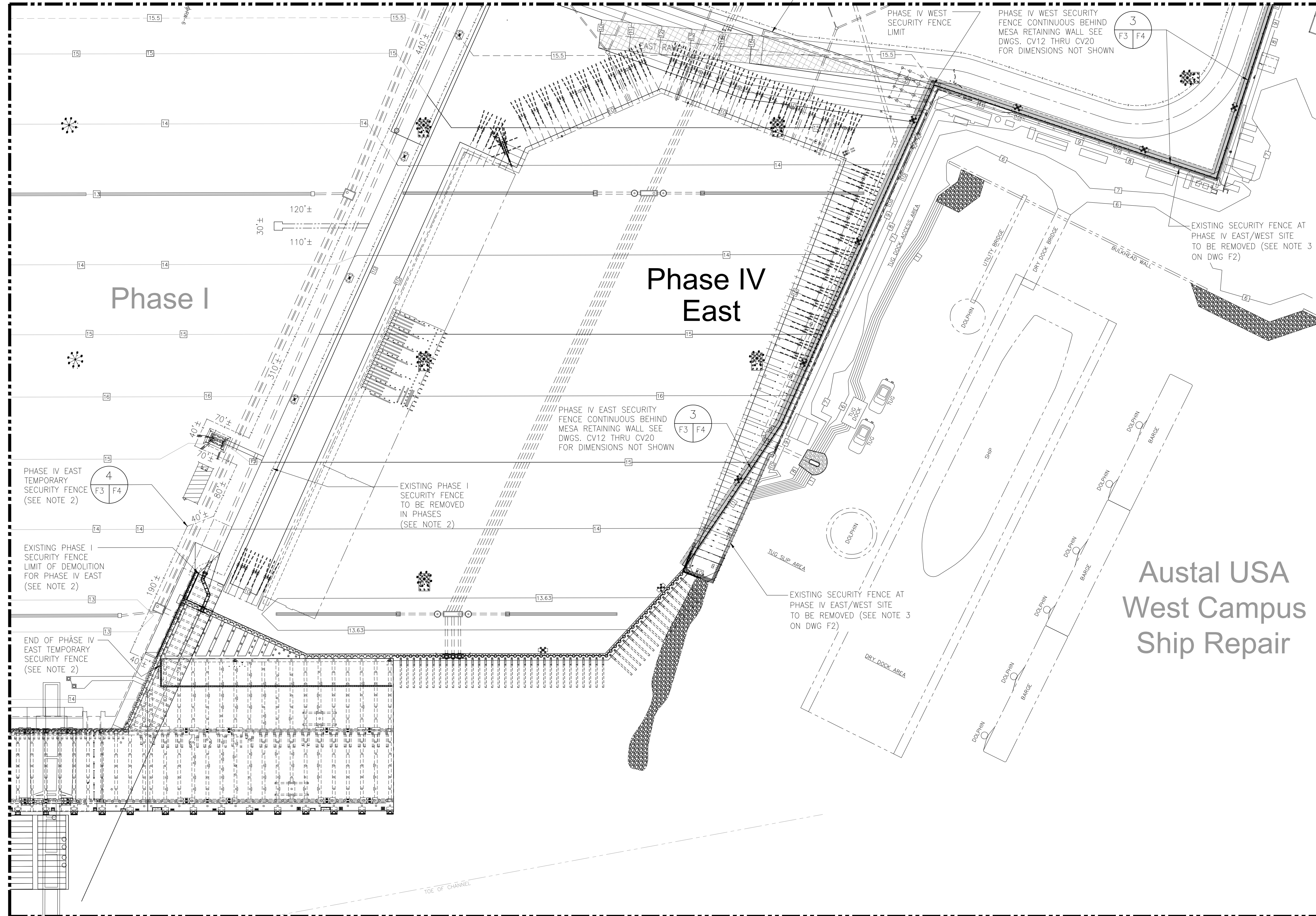
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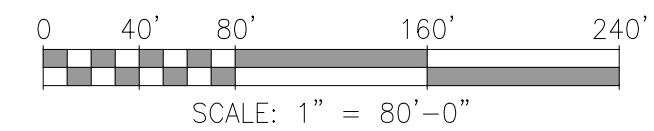




MATCHLINE - "A" SEE DWG. F2



Austal USA  
West Campus  
Ship Repair



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING FENCING WITH APMT TO MAINTAIN SECURE FACILITY.

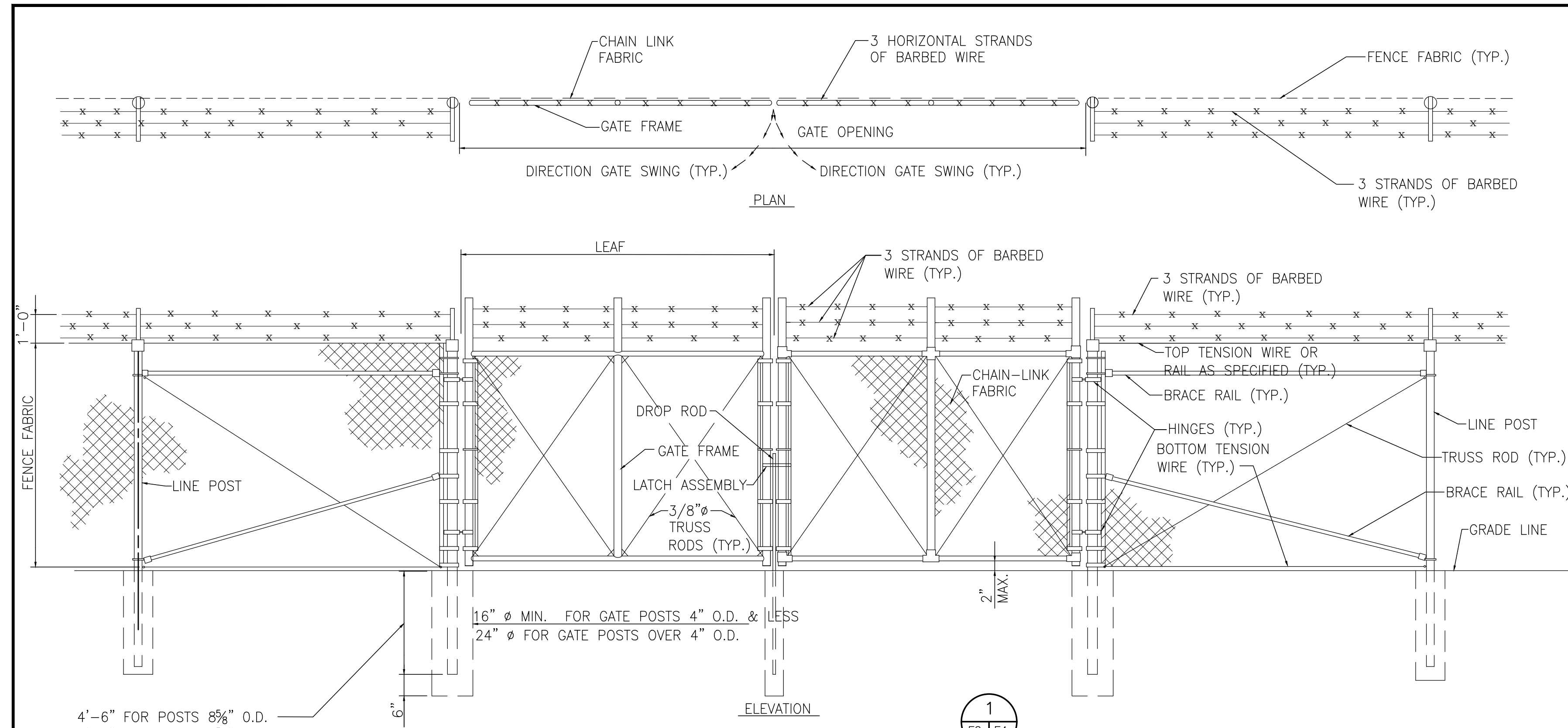
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A	ISSUED FOR BID		RST	MED	RSG	04/05/24		

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FOR: ALABAMA PORT AUTHORITY

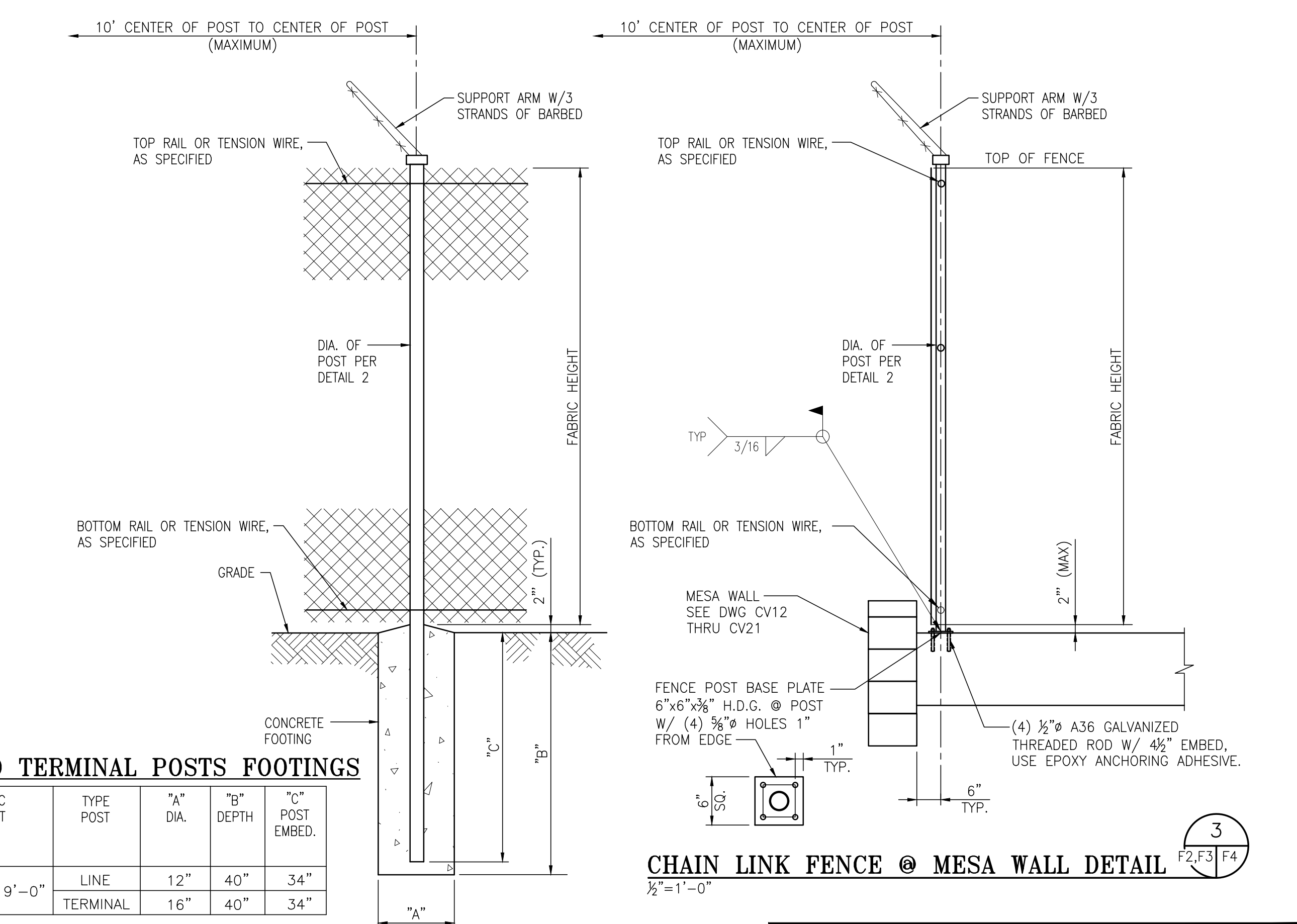
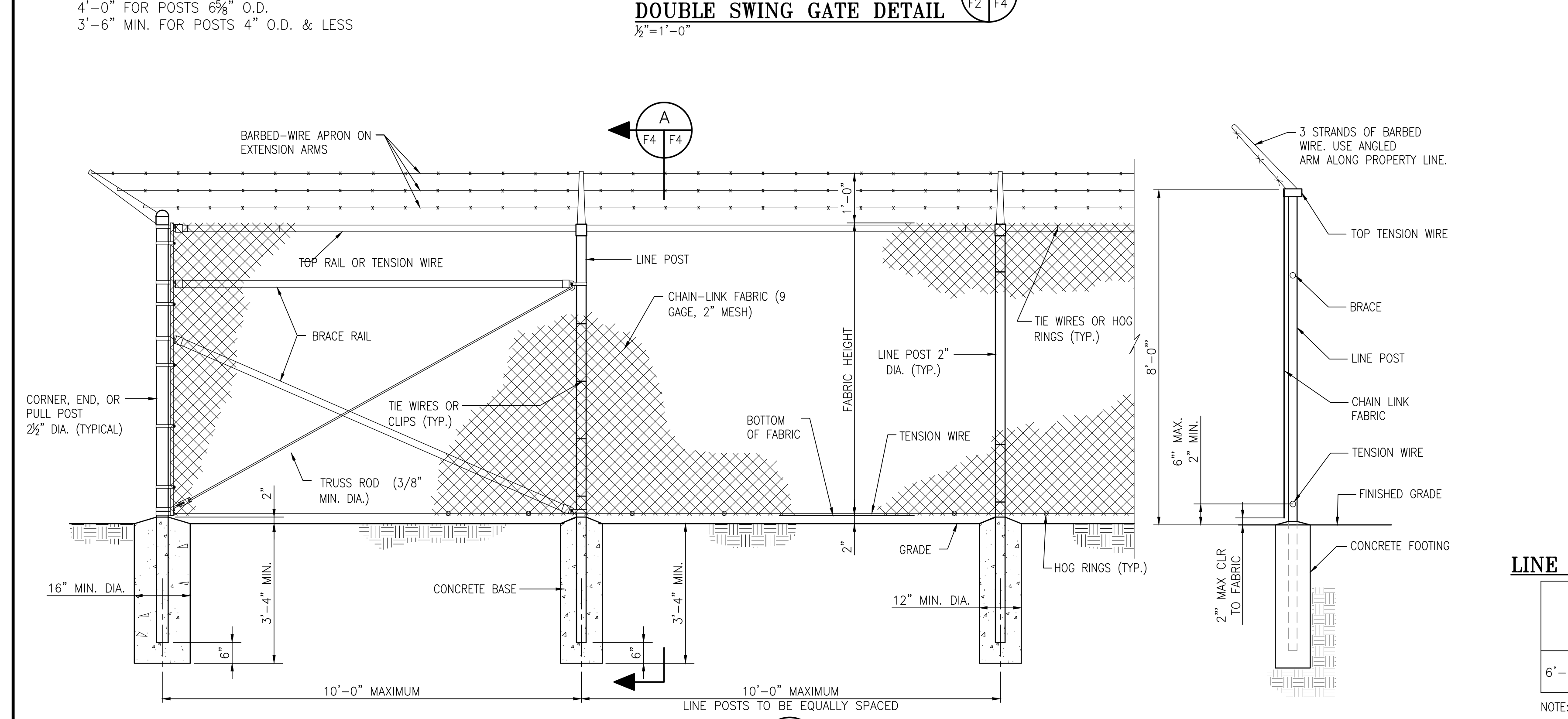
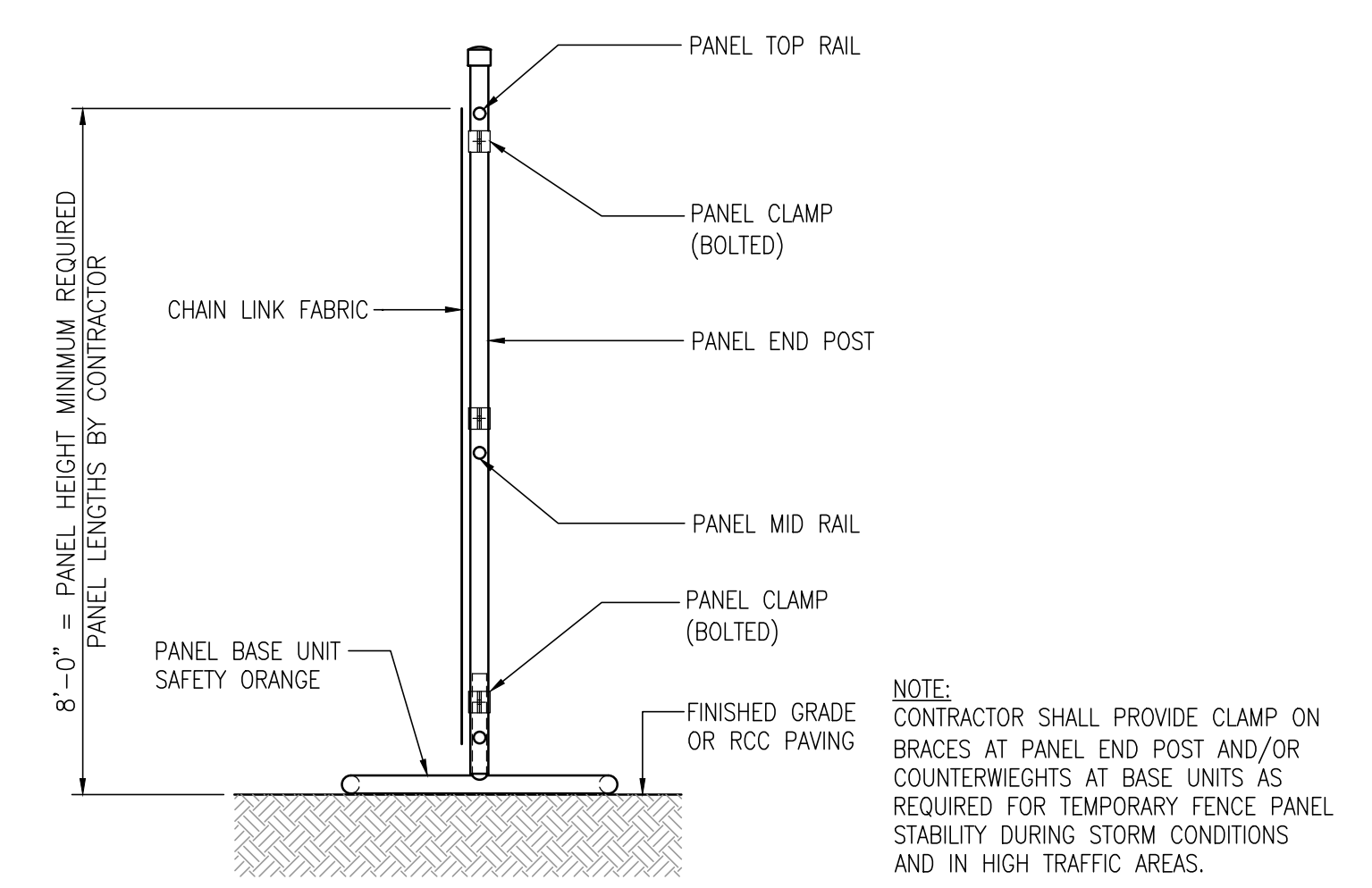
PROJECT NO: 4484 DWG NO: F3 REVISION: A

APMT PHASE IV YARD EXPANSION	
SECURITY FENCE	
PARTIAL PLAN (SHT. 2 OF 2)	
PROJECT NO: 4484	DWG NO: F3
REVISION: A	



**GATE POST**

GATE LEAF WIDTH	GATE POST (OD)	FABRIC HEIGHT	"A" DIA.	"B" DEPTH	"C" POST EMBED.
12'	4"	6' TO 9'	16"	48"	42"
20'	8.625"	6' TO 9'	24"	60"	54"



NOTES  
 1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: RST	CK'D: MED	APPD: RSG	DATE: 04/05/24	DRAWN: RST	CK'D: MED	APPD: RSG	DATE: 04/04/22	SCALE: NOTED
A	ISSUED FOR BID	RST	MED	RSG	04/05/24									

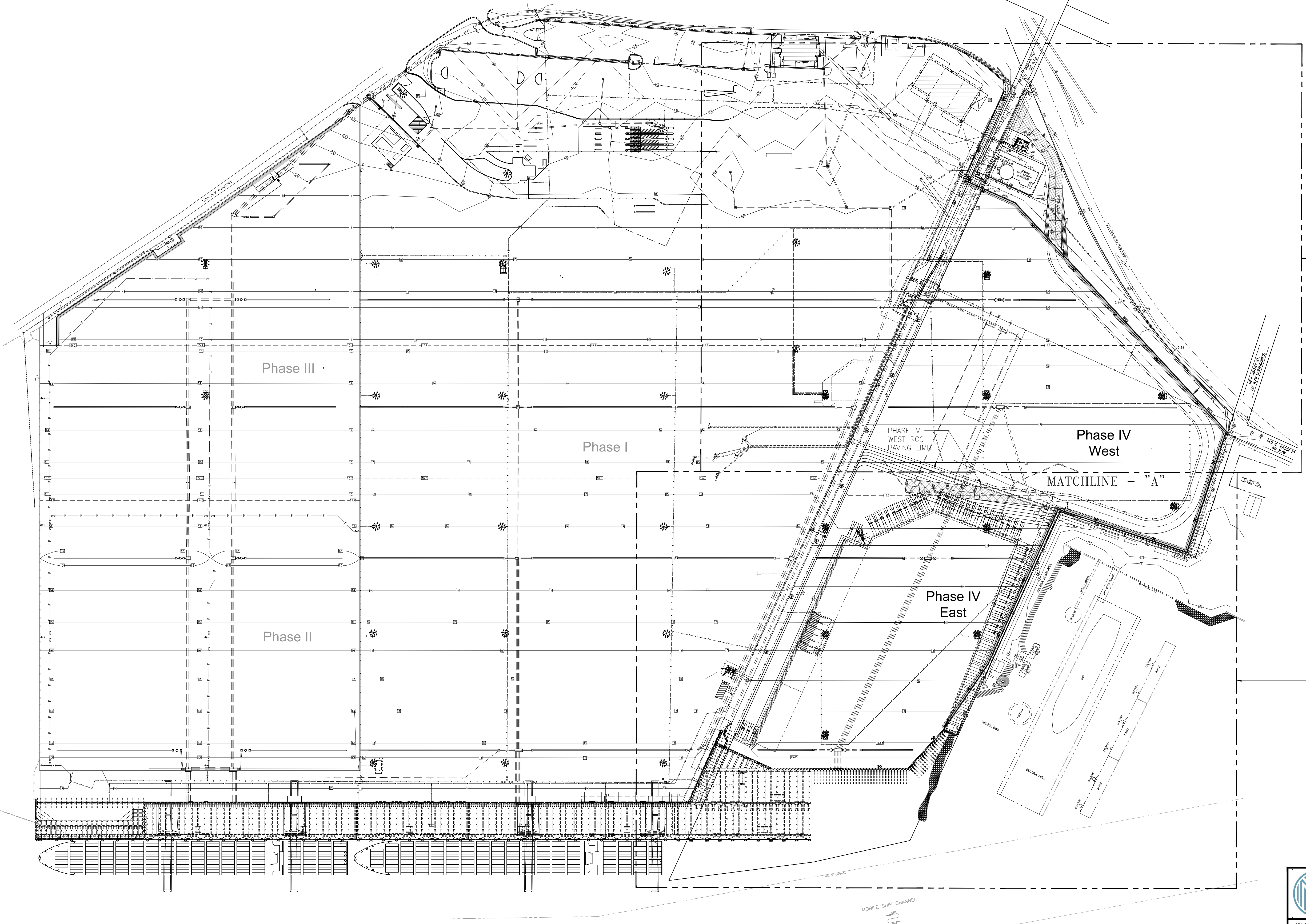
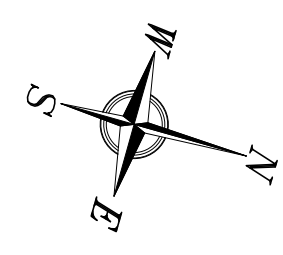
**ALABAMA PORT AUTHORITY**  
 PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
 SECURITY FENCE  
 DETAILS & SECTIONS

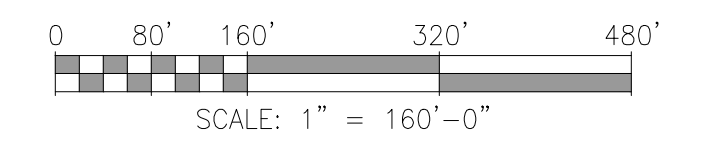
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: F4 | REV: A



FOR FIRE WATER  
PARTIAL PLAN SEE DWG M2

FOR FIRE WATER  
PARTIAL PLAN SEE DWG M3



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:


APMT PHASE IV YARD EXPANSION  
FIRE WATER  
OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: M1 REV: A

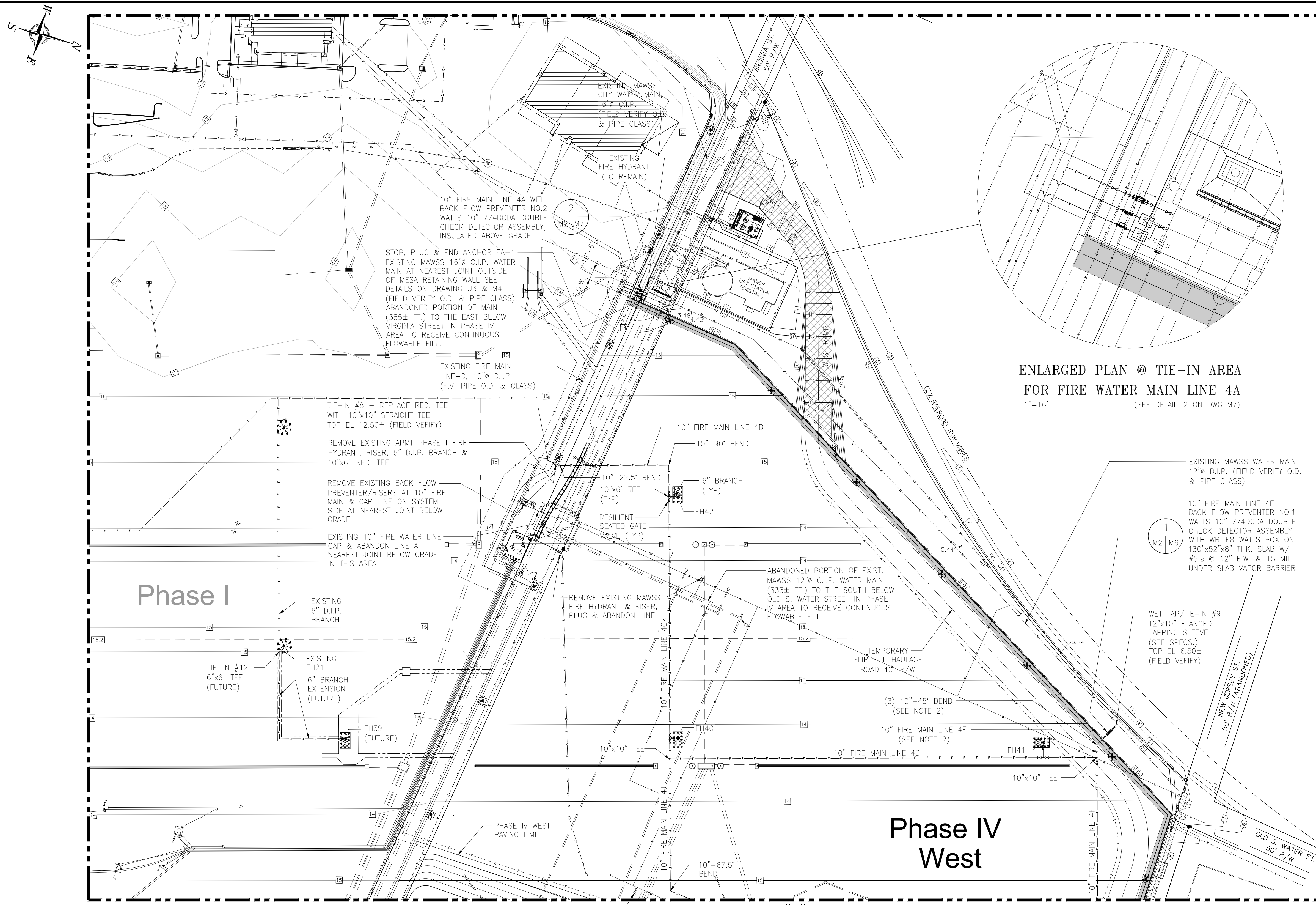
NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	04/05/24	RST	MED	RSG



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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/24/23 SCALE: 1"=160'

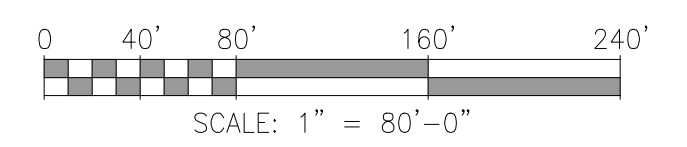


**ENLARGED PLAN @ TIE-IN AREA**  
**FOR FIRE WATER MAIN LINE 4A**  
 1"=16" (SEE DETAIL-2 ON DWG M7)

FIRE HYDRANT POINT COORDINATE TABLE		
POINT NO. (SEE PLAN)	NORTHING	EASTING
FH33	N.244326.78	E.1800101.86
FH34	N.244239.76	E.1799800.72
FH35	N.244695.24	E.1799668.95
FH36	N.244147.24	E.1799480.75
FH37	N.244631.66	E.1799340.76
FH38	N.245179.27	E.1799106.22
FH39 (FUTURE)	N.244029.36	E.1799072.92
FH40	N.244513.74	E.1798932.80
FH41	N.245047.45	E.1798786.33
FH42	N.244412.58	E.1798581.57

FIELD NOTE:  
 FIRE HYDRANTS TO BE CENTERED ON COORDINATES AS LISTED IN TABLE.  
 FIELD VERIFY FIRE HYDRANT ORIENTATION & SET FACE OF STAND PIPE FLANGE ELEVATION TO ACHIEVE A MINIMUM OF 2" CLEAR BETWEEN BOTTOM OF FLANGE BOLTS AND FINISHED CONCRETE SURFACE.

LEGEND:	
SYMBOL:	DESCRIPTION:
— F — F —	FIRE WATER MAIN OR BRANCH
⊙	FIRE HYDRANT
⊙	EXISTING FIRE HYDRANT
● FH#	POINT/NODE#
⊗	RESILIENT GATE VALVE
⊗	BACK FLOW PREVENTER
▒	MESA RETAINING WALL W/ STRUCTURAL GEOGRID
10	INDEX CONTOUR
11	INTERMEDIATE CONTOUR
9.5	SPECIAL CONTOUR
10	EXISTING CONTOUR
---	PROPERTY OR STREET R/W BOUNDARY LINE
---	RCP OR HDPE STORM DRAIN
---	EXISTING RCP OR C.I.P. STORM DRAIN
---	TRENCH STORM DRAIN

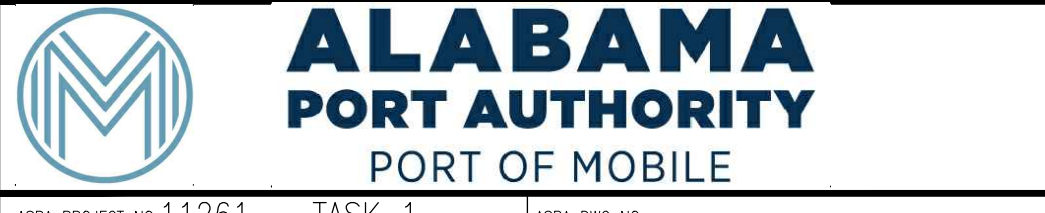


- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - VERTICALLY OFFSET FIRE MAIN LINE 4E DOWN TO TOP OF PIPE EL. 5.00' MINIMUM TO RUN BELOW AND CLEAR MESA RETAINING WALL GEOGRID AREA AND BOTTOM OF MESA RETAINING WALL FOUNDATION AT EL. 7.00'.
  - CONTRACTOR SHALL FIELD VERIFY EXISTING UNDERGROUND PIPES AT WET TAPPING TIE-IN LOCATIONS ARE ADEQUATE PRIOR TO CONSTRUCTION.

NO.	REVISION	APPD.	DATE
A	ISSUED FOR BID	RST	04/05/24

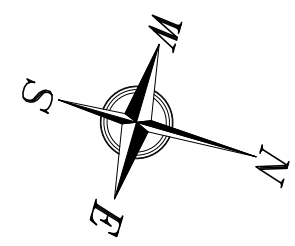


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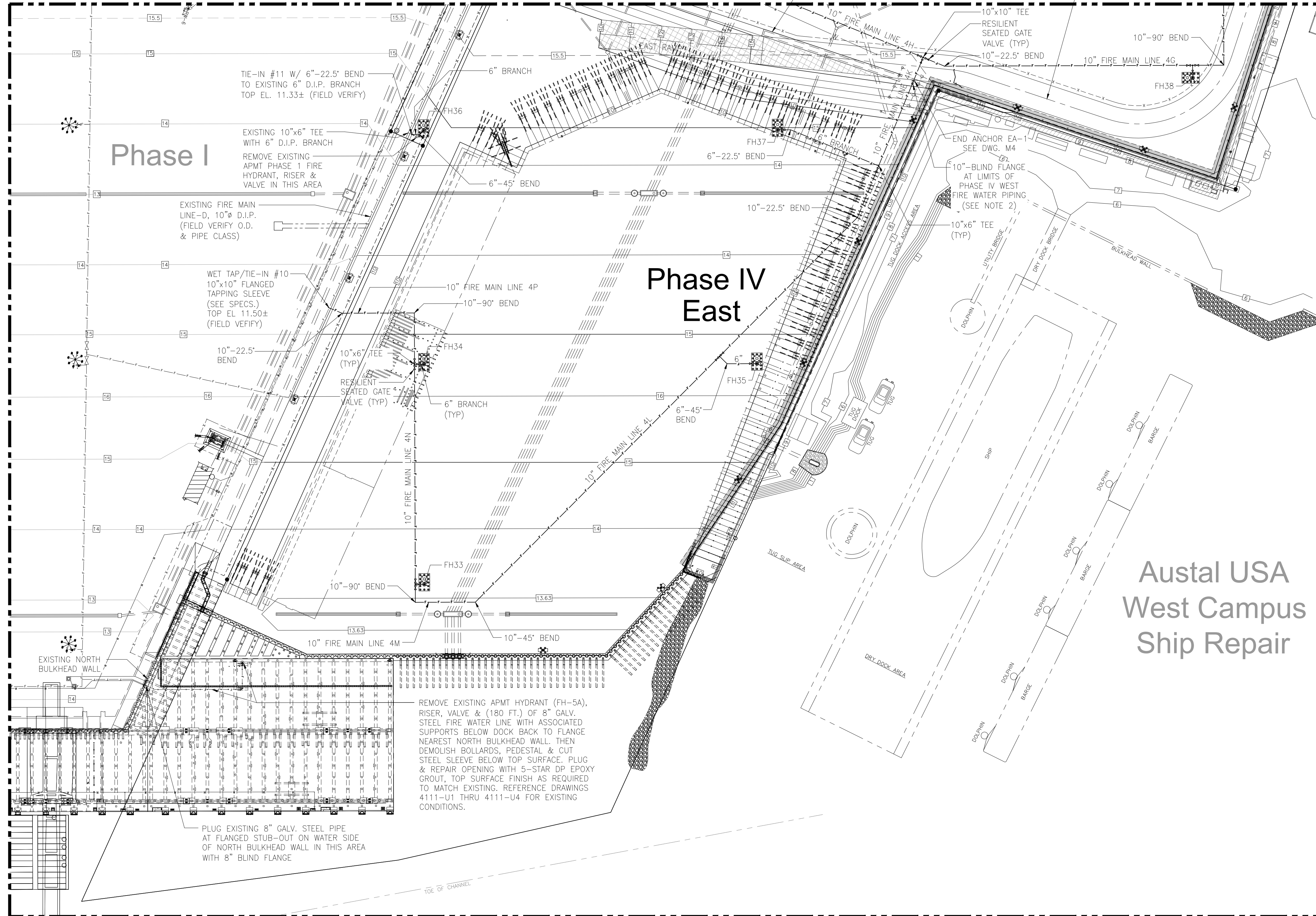


ASPA PROJECT NO: 11261 - TASK 1  
 ASPA DWG NO:  
**APMT PHASE IV YARD EXPANSION**  
**FIRE WATER**  
**PARTIAL PLAN (SHT. 1 OF 2)**  
 FOR: ALABAMA PORT AUTHORITY

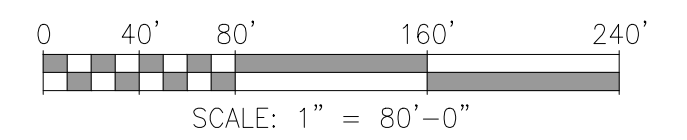
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					RST	CK'D	RSG	04/24/23	1"=80'	4484	M2	A



MATCHLINE - "A" SEE DWG. M2




Austal USA  
West Campus  
Ship Repair



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - THE CONTRACTOR SHALL PLUG FIRE MAIN WITH 10" BLIND FLANGE APPROXIMATELY (10 FT.) BEYOND PHASE IV WEST PAVING LIMITS IN THIS AREA FOR CONTINUATION OF PIPING SYSTEM DURING PHASE IV EAST BUILD-OUT. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF 10" FIRE MAIN TIE-IN POINTS & ELEVATIONS DURING SLIP FILL HAULAGE ACTIVITIES.

NO.	REVISION	DATE	APPD	DATE
A	ISSUED FOR BID	04/05/24	RST	
	REFERENCE DRAWINGS			



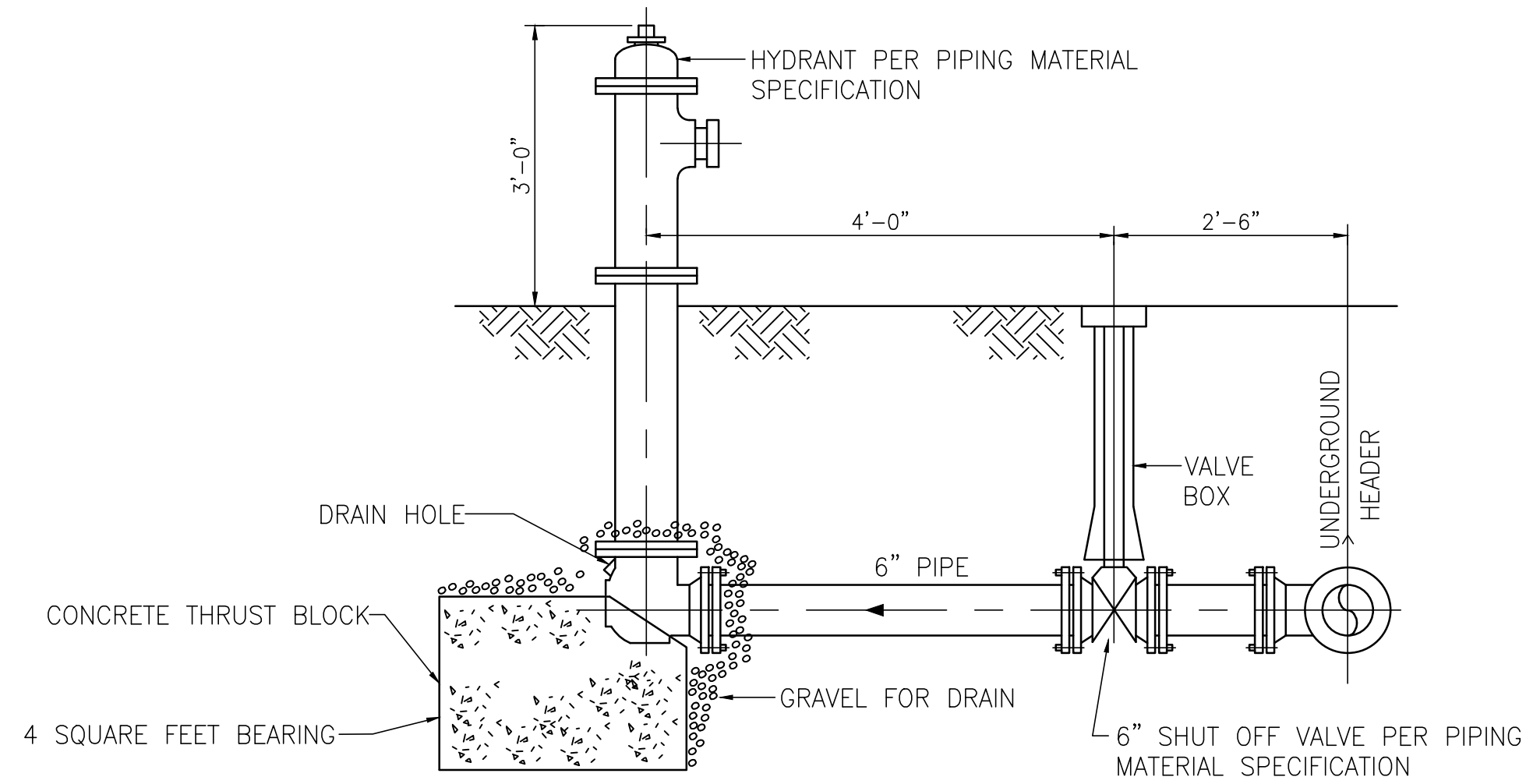
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FOR: ALABAMA PORT AUTHORITY

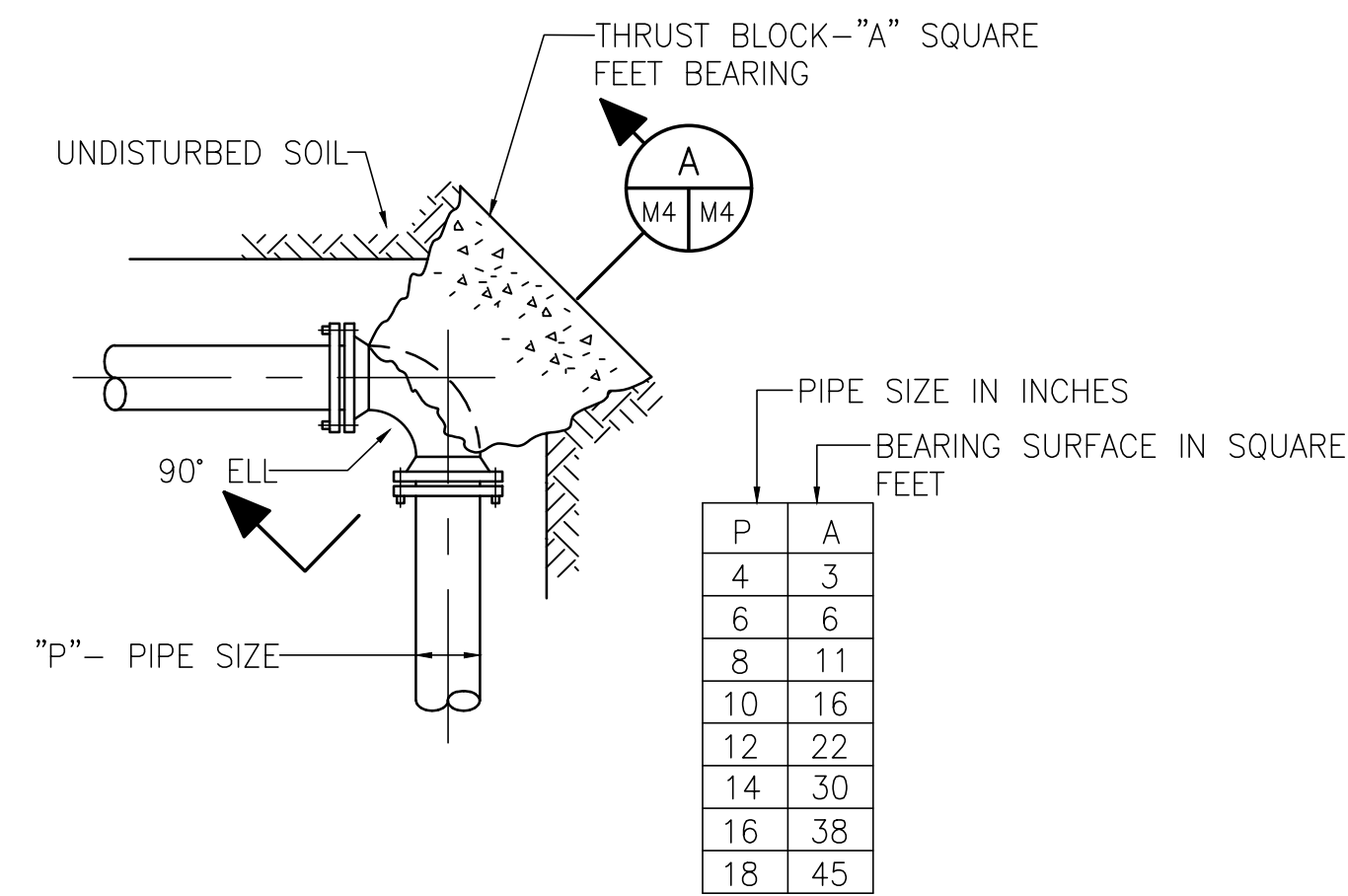
PROJECT NO: 4484 DWG NO: M3

DATE: 04/24/23 SCALE: 1"=80'

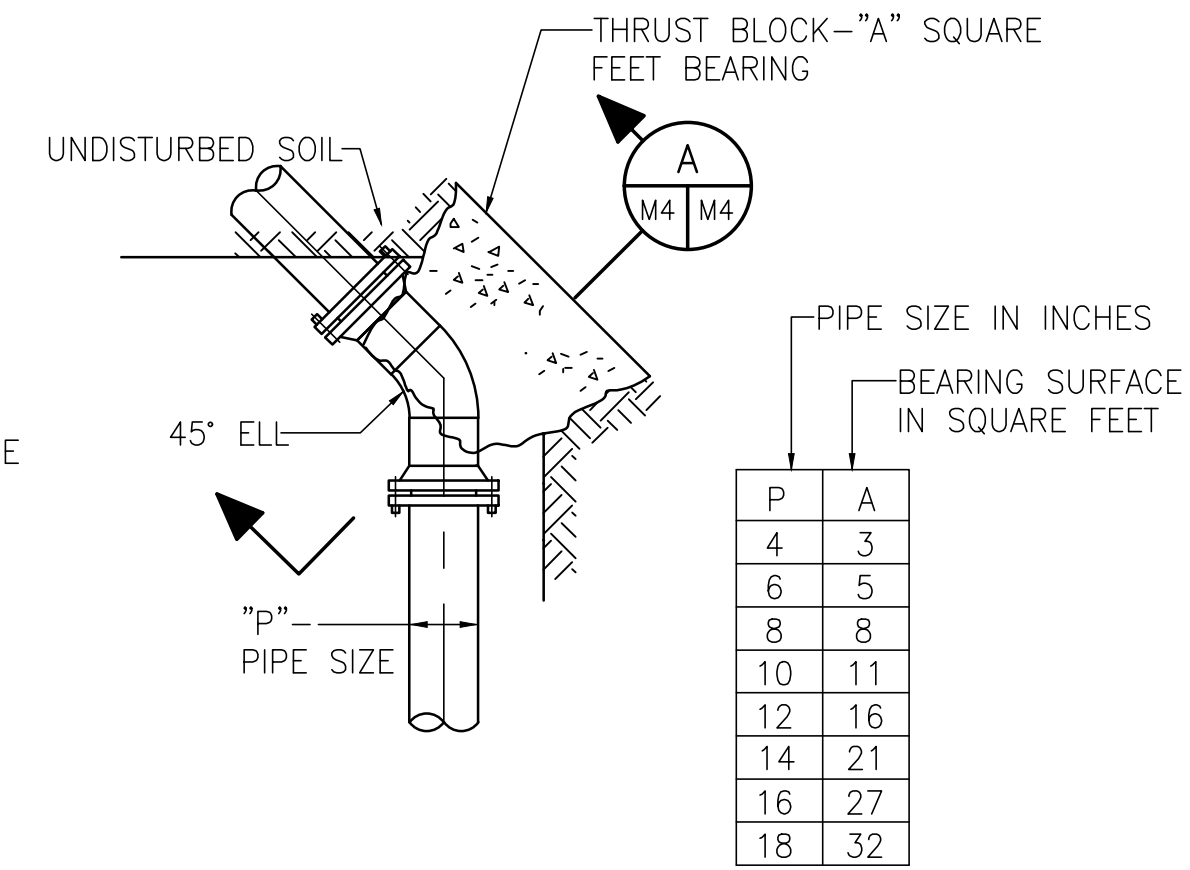
APMT PHASE IV YARD EXPANSION	
FIRE WATER	
PARTIAL PLAN (SHT. 2 OF 2)	
PROJECT NO: 4484	DWG NO: M3
REV: A	



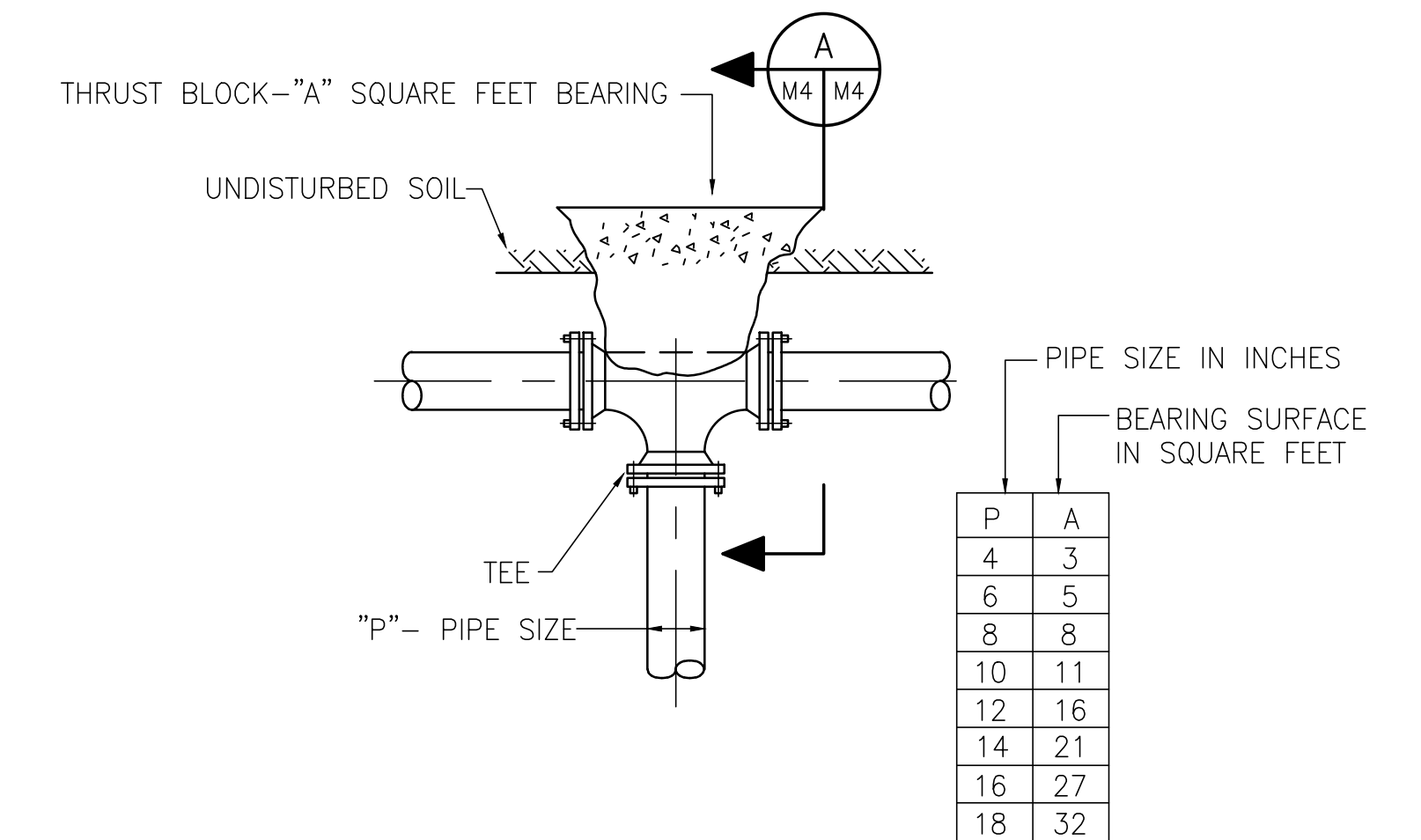
**DETAILS TB-1**



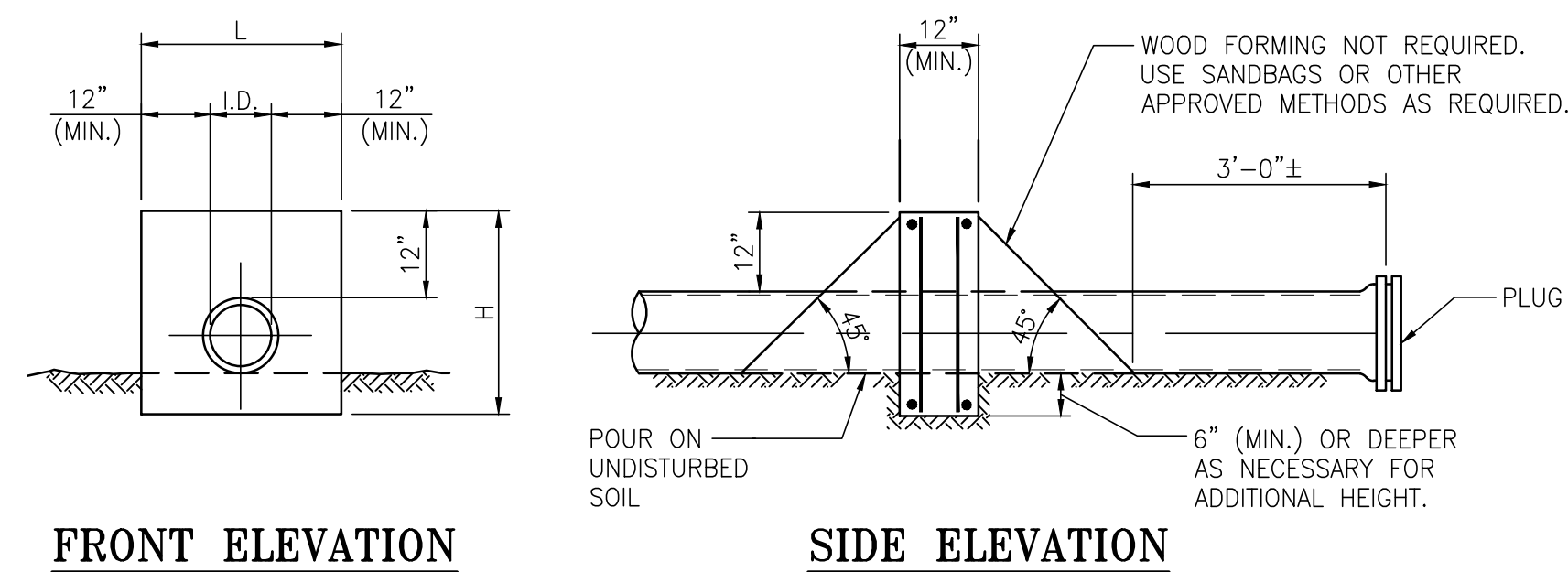
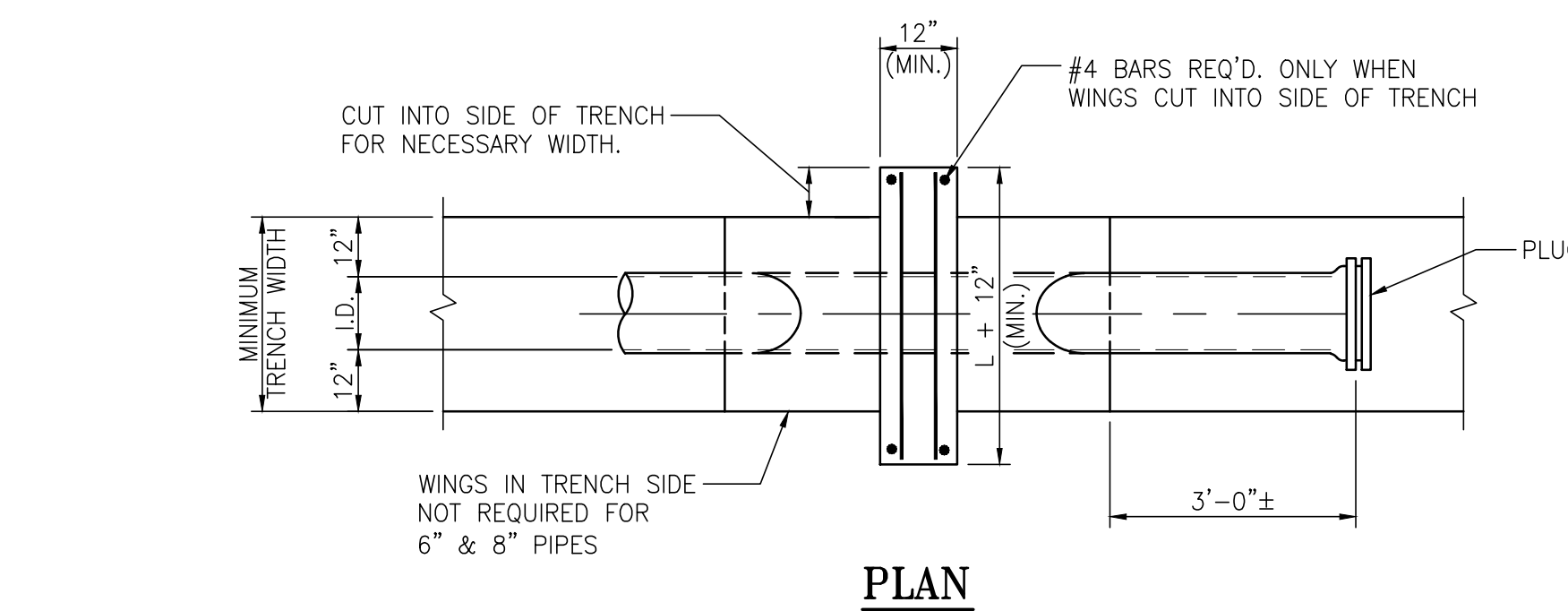
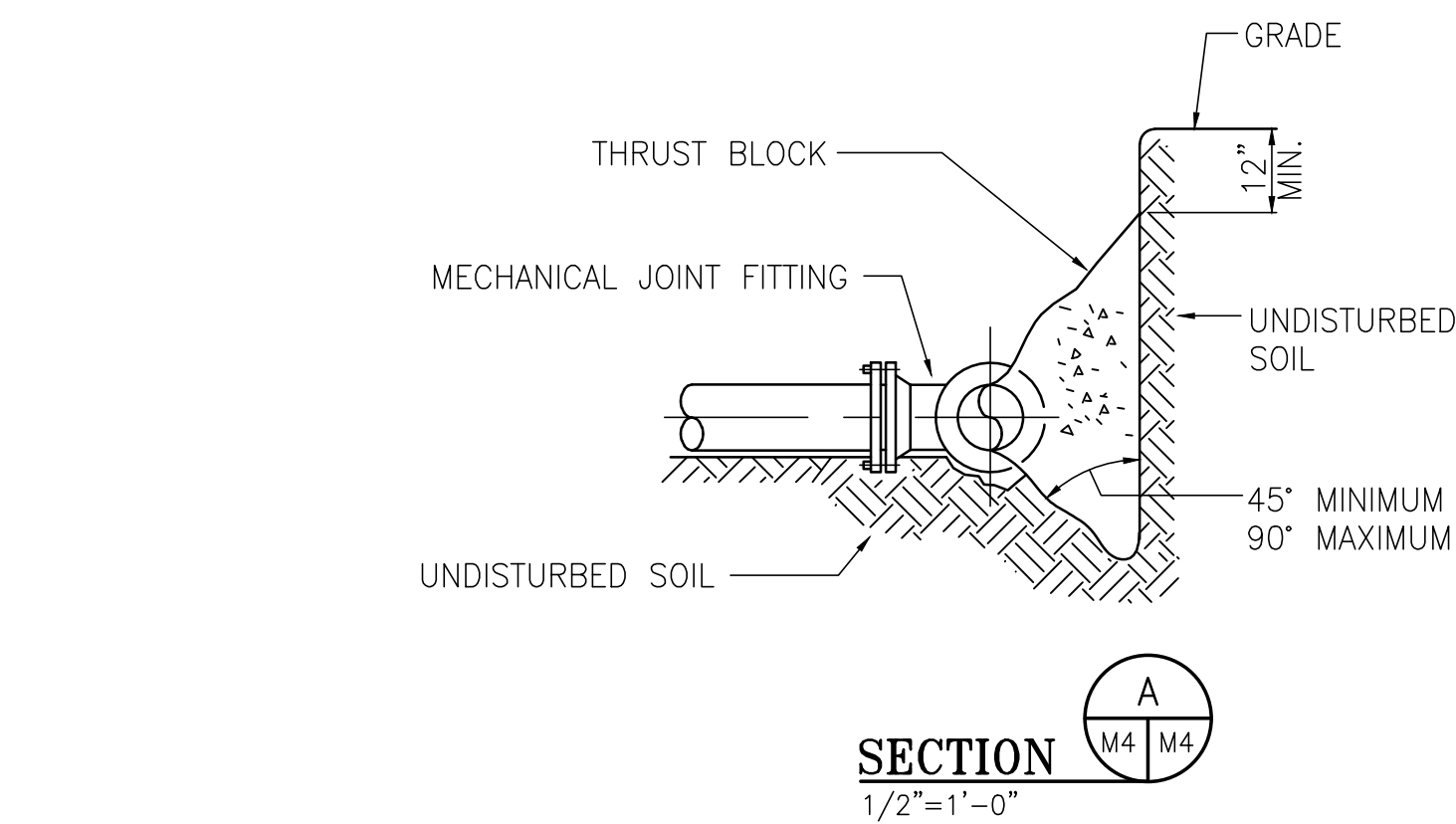
**DETAILS TB-2**



**DETAILS TB-3**



**DETAILS TB-4**

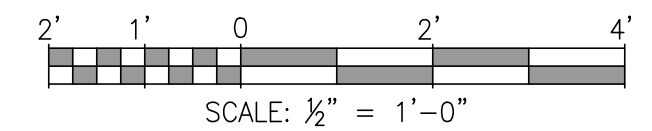


**DETAILS-CONCRETE END ANCHOR EA-1**

NTS

**NOTES:**

- THRUST BLOCK SIZES ARE BASED ON AN OPERATING PRESSURE OF 150 PSIG AND A TEST PRESSURE OF 225 PSIG AND A SOIL RESISTANCE OF 2000 POUNDS PER SQUARE FOOT.
- RETAINER GLAND SET SCREWS TO BE TIGHTENED PER MANUFACTURERS RECOMMENDATIONS.
- AFTER INSTALLATION, RETAINER GLANDS, NUTS, BOLTS, WASHERS AND OTHER RETAINING DEVICES (EXCEPT THRUST BLOCKS) SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS COATING OR OTHER ACCEPTABLE CORROSION RETARDING MATERIAL.



ASPA PROJECT NO: 11261 - TASK 1      ASPA DWG NO:

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

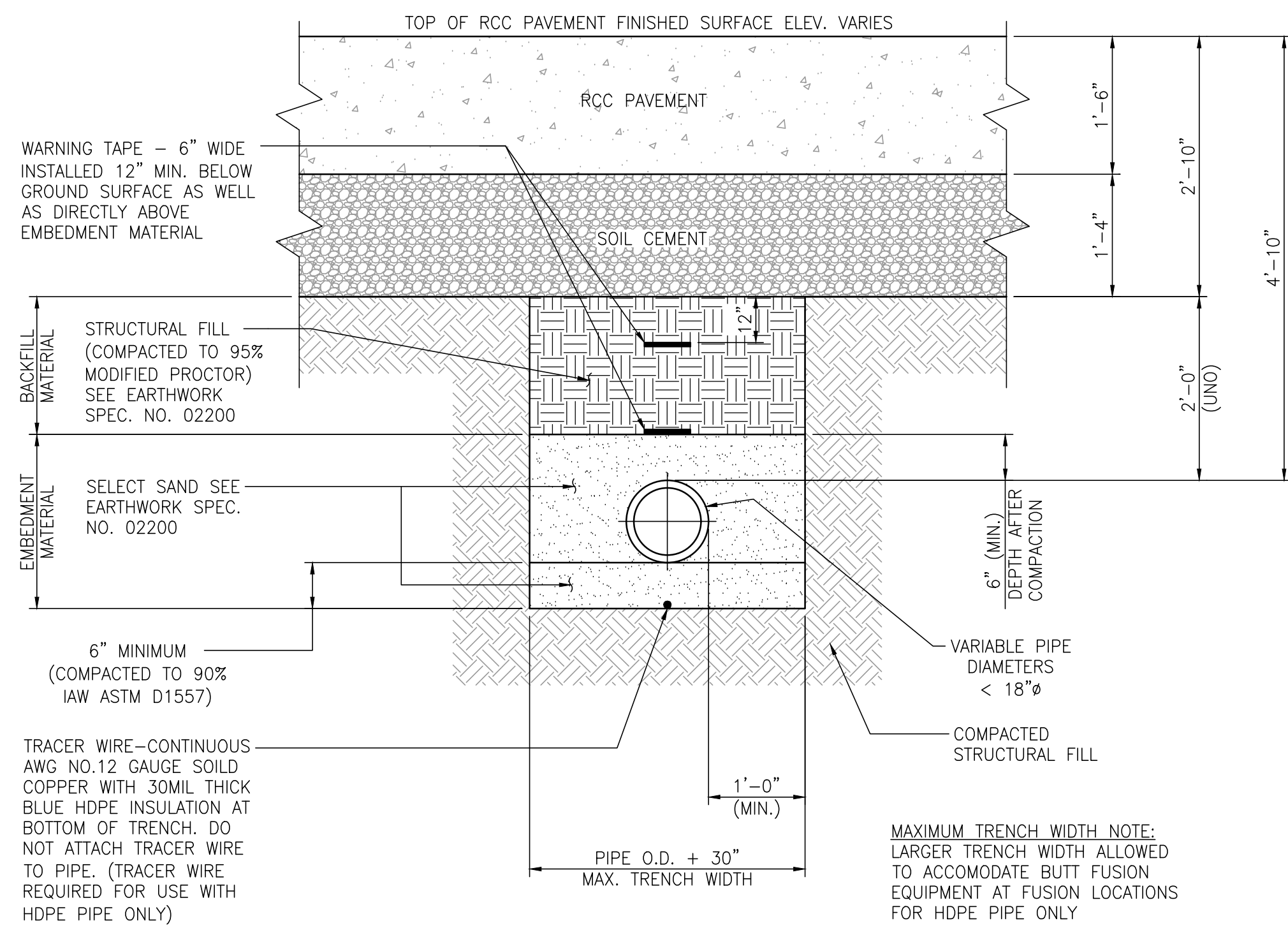
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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APMT PHASE IV YARD EXPANSION  
FIRE WATER  
HYDRANT, THRUST BLOCKS & END ANCHOR DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484      DWG NO: M4      REV: A

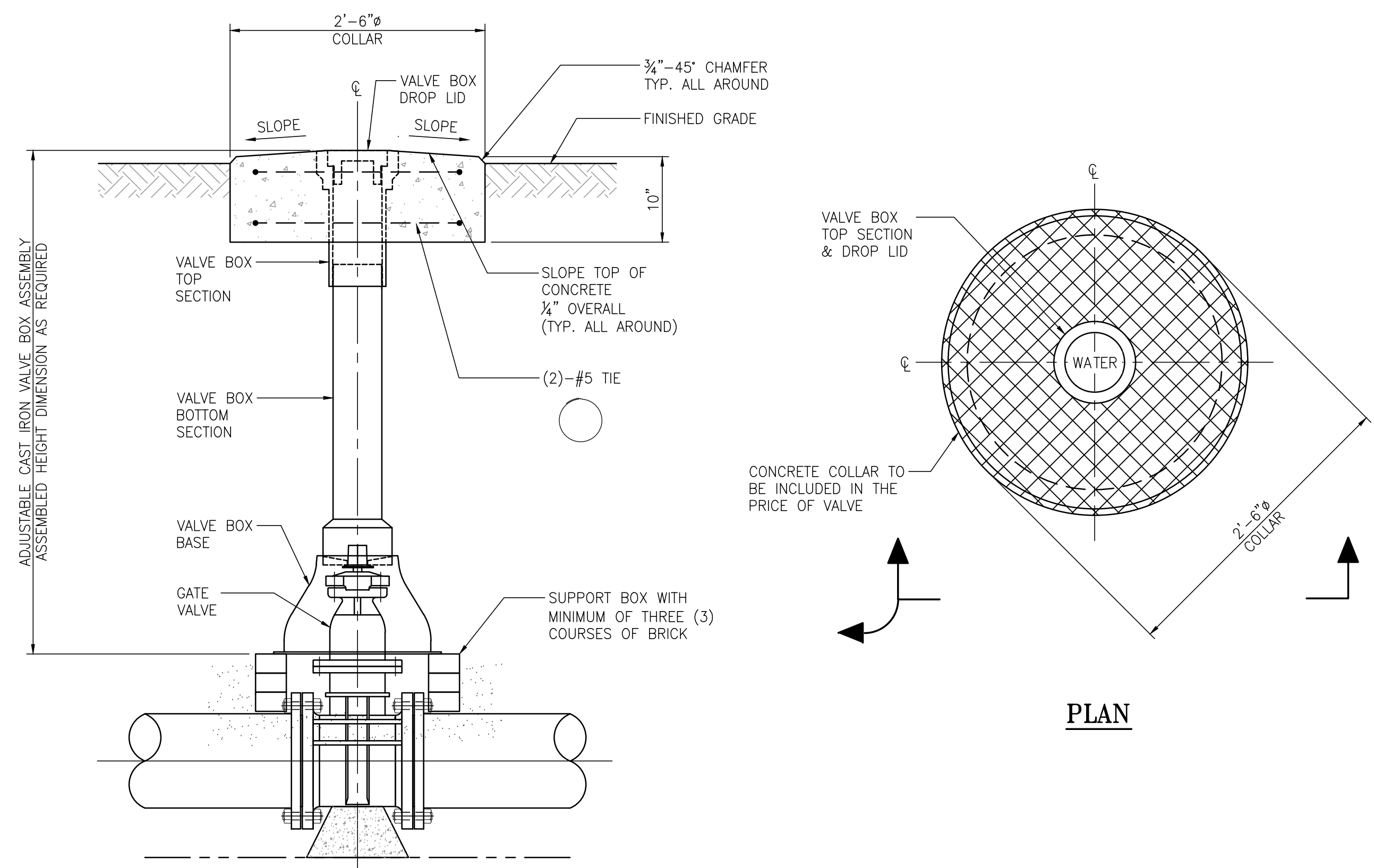


**TRENCH, EMBEDMENT AND BACKFILL FOR FIRE WATER PIPING**

3/4"=1'-0"

**NOTES:**

- WHERE PIPE IS INSTALLED DEEPER THAN 8 FEET, INSTALL ADDITIONAL TRACER WIRE AT A DEPTH BETWEEN 4 AND 5 FEET BELOW FINISHED GRADE. INSTALL TRACER WIRE IN A 1"Ø PVC CONDUIT.
- EMBEDMENT SHOULD BE PLACED IN LIFTS, NOT EXCEEDING 6 INCHES IN THICKNESS, AND THEN TAMPED. TAMPING SHOULD BE ACCOMPLISHED WITH A MECHANICAL TAMPER.
- A MAXIMUM OF 100 FEET OF OPEN TRENCH WILL BE ALLOWED AT ANY TIME, UNLESS APPROVED BY ENGINEER.
- PERFORM CONDUCTIVITY TEST ON TRACER WIRE AT FINAL INSPECTION.



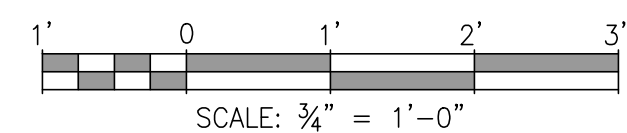
**ELEVATION**

**PLAN**

**CAST IORN VALVE BOX & COLLAR @ FIN. GRADE - DETAIL**

1"=1'-0"

M6,M7,U2 M5



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

FIRE WATER

PIPE TRENCH/EMBEDMENT & VALVE BOX DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: M5

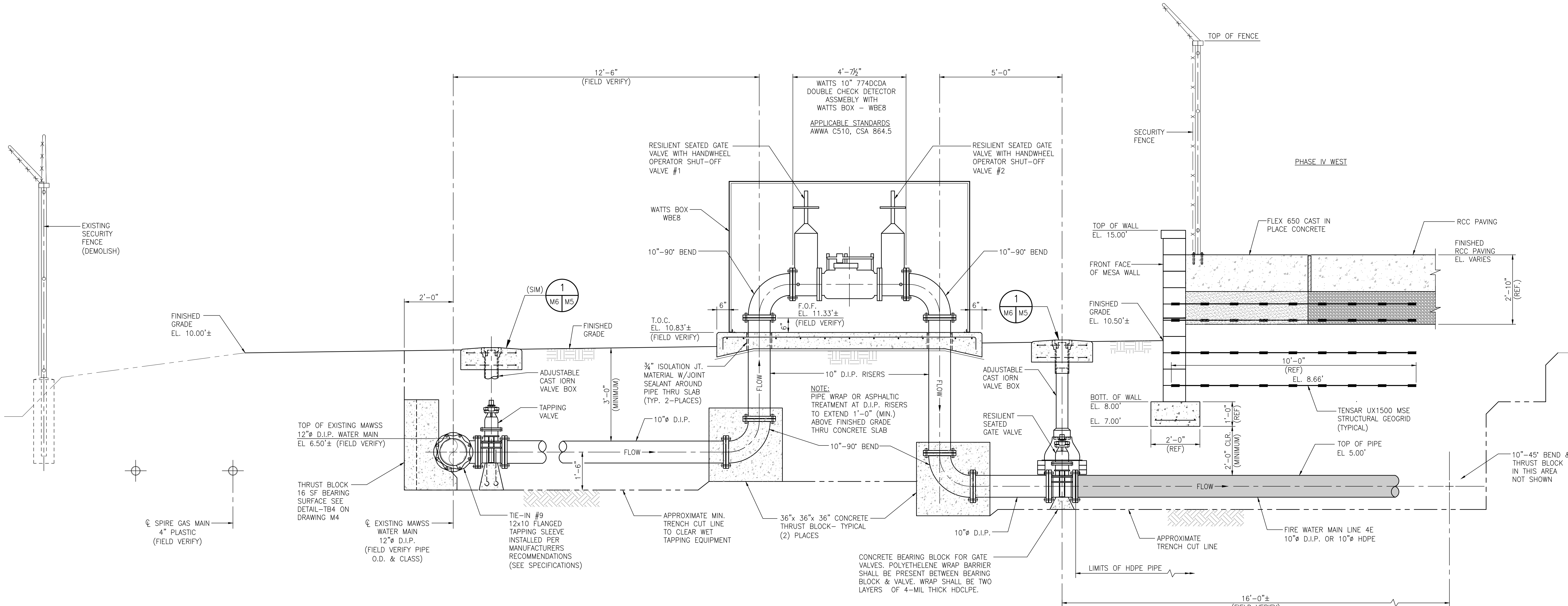
REV: A



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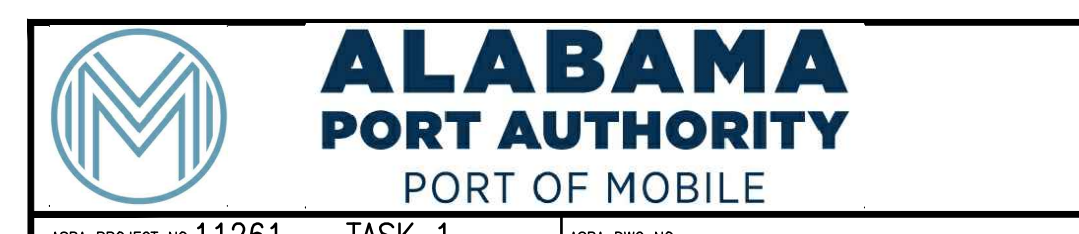
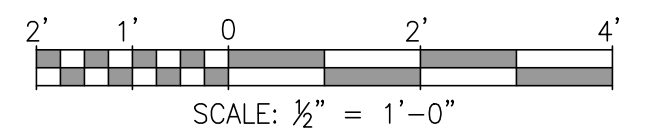
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24



**BACKFLOW PREVENTER NO.1 INSTALLATION DETAIL** (VIEW LOOKING NORTH)

**GENERAL BACKFLOW PREVENTER NOTES:**

1. PROVIDE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON HOW TO DRAIN ENTIRE BACKFLOW UNIT TO PREVENT FREEZING.
2. PROTECT BACKFLOW DEVICE WITH REQUIRED WATTS BOX INSULATED ENCLOSURE.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

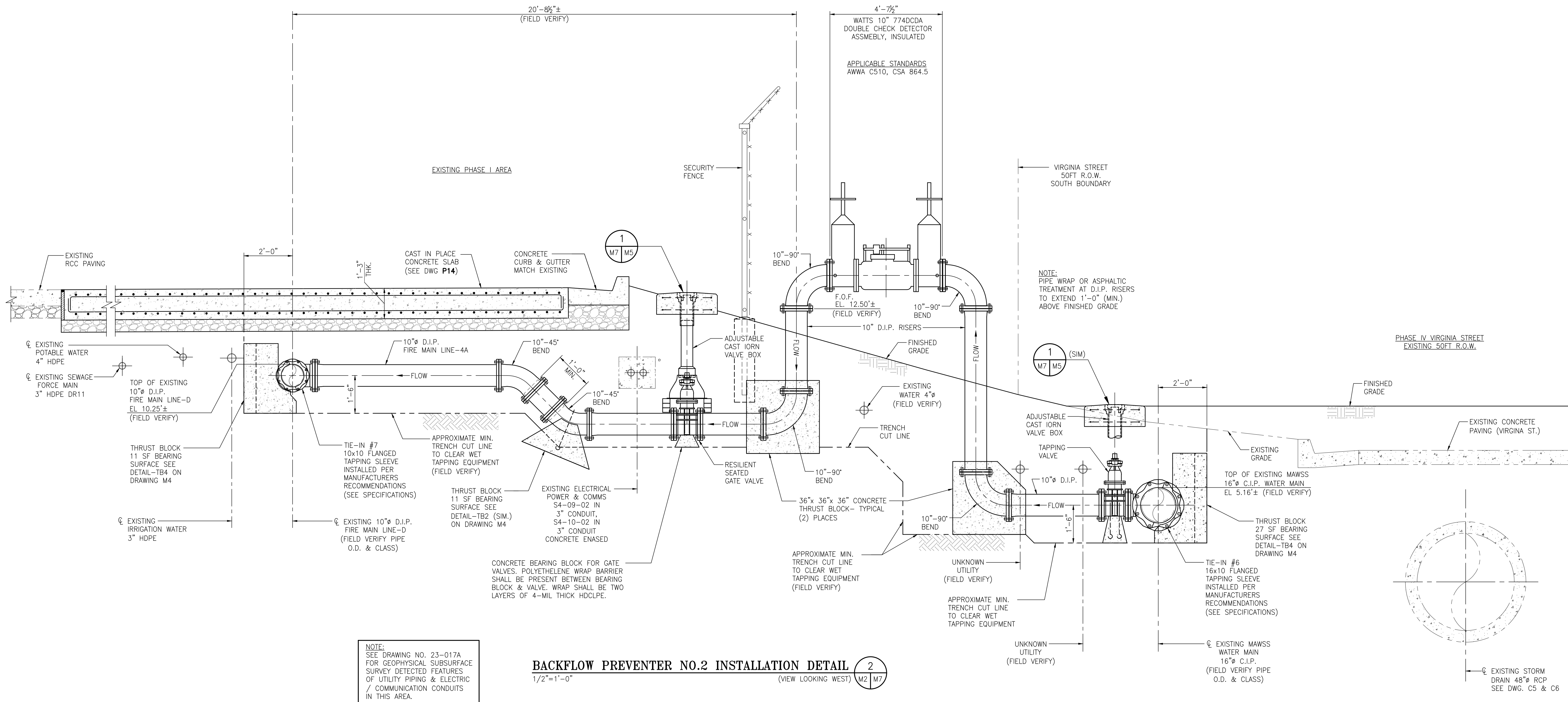
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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APMT PHASE IV YARD EXPANSION	
FIRE WATER - BACK FLOW PREVENTER NO.1	
AND MAIN LINE 4E INSTALLATION DETAIL	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: M6
REVISION: A	



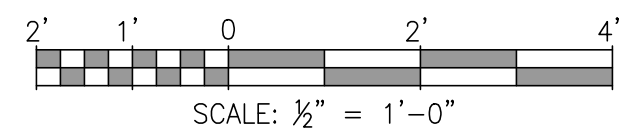


NOTE:  
SEE DRAWING NO. 23-017A  
FOR GEOPHYSICAL SUBSURFACE  
SURVEY DETECTED FEATURES  
OF UTILITY PIPING & ELECTRIC  
/ COMMUNICATION CONDUITS  
IN THIS AREA.

**BACKFLOW PREVENTER NO.2 INSTALLATION DETAIL** (VIEW LOOKING WEST)  
1/2"=1'-0"

GENERAL BACKFLOW PREVENTER NOTES:

1. PROVIDE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON HOW TO DRAIN ENTIRE BACKFLOW UNIT TO PREVENT FREEZING.
2. PROTECT BACKFLOW DEVICE AND ALL PIPING ABOVE GRADE WITH INSULATION.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.



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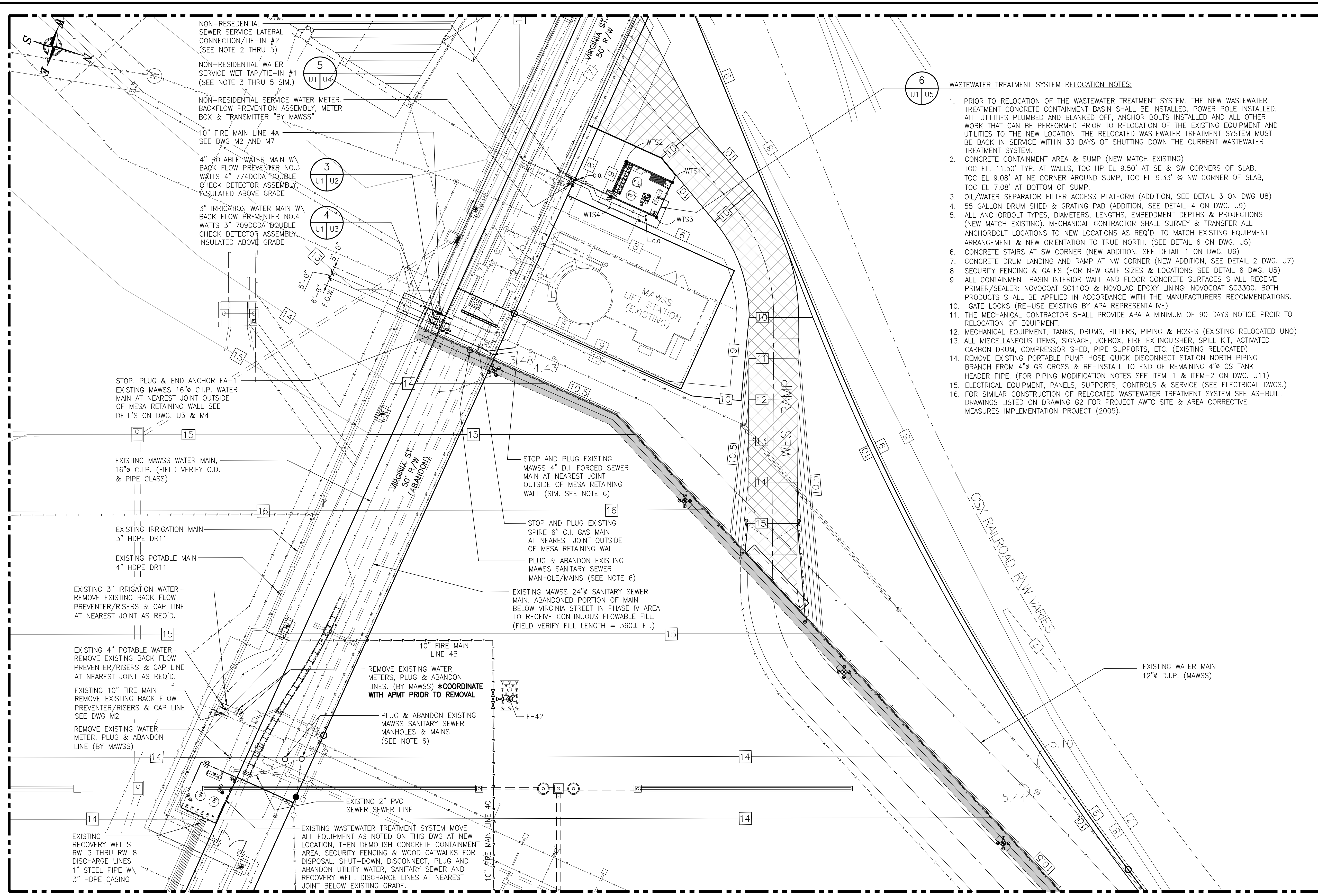
APMT PHASE IV YARD EXPANSION  
FIRE WATER - BACK FLOW PREVENTER NO.2  
AND MAIN LINE 4A INSTALLATION DETAIL

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
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A	ISSUED FOR BID	RST	MED	RSG	04/05/24
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DRAWN:	CK'D:	APPD:	DATE:	SCALE:
RST	MED	RSG	05/06/23	NOTED

FOR:	PROJECT NO:	DWG NO:	REV:
ALABAMA PORT AUTHORITY	4484	M7	A



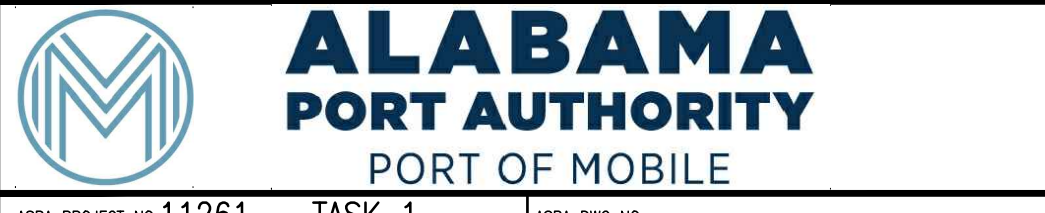
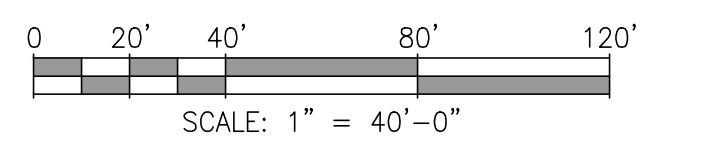
### WASTEWATER TREATMENT SYSTEM POINT COORDINATE TABLE

POINT NO. (SEE PLAN)	NORTHING	EASTING
WTS1	N.244423.58	E.1798142.54
WTS2	N.244383.00	E.1798136.62
WTS3	N.244419.14	E.1798173.22
WTS4	N.244378.56	E.1798167.32

- #### WASTEWATER TREATMENT SYSTEM RELOCATION NOTES:
- PRIOR TO RELOCATION OF THE WASTEWATER TREATMENT SYSTEM, THE NEW WASTEWATER TREATMENT CONCRETE CONTAINMENT BASIN SHALL BE INSTALLED, POWER POLE INSTALLED, ALL UTILITIES PLUMBED AND BLANKED OFF, ANCHOR BOLTS INSTALLED AND ALL OTHER WORK THAT CAN BE PERFORMED PRIOR TO RELOCATION OF THE EXISTING EQUIPMENT AND UTILITIES TO THE NEW LOCATION. THE RELOCATED WASTEWATER TREATMENT SYSTEM MUST BE BACK IN SERVICE WITHIN 30 DAYS OF SHUTTING DOWN THE CURRENT WASTEWATER TREATMENT SYSTEM.
  - CONCRETE CONTAINMENT AREA & SUMP (NEW MATCH EXISTING)  
TOC EL. 11.50' TYP. AT WALLS, TOC HP EL. 9.50' AT SE & SW CORNERS OF SLAB, TOC EL. 9.08' AT NE CORNER AROUND SUMP, TOC EL. 9.33' @ NW CORNER OF SLAB, TOC EL. 7.08' AT BOTTOM OF SUMP.
  - OIL/WATER SEPARATOR FILTER ACCESS PLATFORM (ADDITION, SEE DETAIL 3 ON DWG U8)
  - 55 GALLON DRUM SHED & GRATING PAD (ADDITION, SEE DETAIL-4 ON DWG. U9)
  - ALL ANCHORBOLT TYPES, DIAMETERS, LENGTHS, EMBEDMENT DEPTHS & PROJECTIONS (NEW MATCH EXISTING). MECHANICAL CONTRACTOR SHALL SURVEY & TRANSFER ALL ANCHORBOLT LOCATIONS TO NEW LOCATIONS AS REQ'D. TO MATCH EXISTING EQUIPMENT ARRANGEMENT & NEW ORIENTATION TO TRUE NORTH. (SEE DETAIL 6 ON DWG. U5)
  - CONCRETE STAIRS AT SW CORNER (NEW ADDITION, SEE DETAIL 1 ON DWG. U6)
  - CONCRETE DRUM LANDING AND RAMP AT NW CORNER (NEW ADDITION, SEE DETAIL 2 DWG. U7)
  - SECURITY FENCING & GATES (FOR NEW GATE SIZES & LOCATIONS SEE DETAIL 6 DWG. U5)
  - ALL CONTAINMENT BASIN INTERIOR WALL AND FLOOR CONCRETE SURFACES SHALL RECEIVE PRIMER/SEALER: NOVOCOAT SC1100 & NOVOLAC EPOXY LINING: NOVOCOAT SC3300. BOTH PRODUCTS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
  - GATE LOCKS (RE-USE EXISTING BY APA REPRESENTATIVE)
  - THE MECHANICAL CONTRACTOR SHALL PROVIDE APA A MINIMUM OF 90 DAYS NOTICE PRIOR TO RELOCATION OF EQUIPMENT.
  - MECHANICAL EQUIPMENT, TANKS, DRUMS, FILTERS, PIPING & HOSES (EXISTING RELOCATED UNO)
  - ALL MISCELLANEOUS ITEMS, SIGNAGE, JOEBOX, FIRE EXTINGUISHER, SPILL KIT, ACTIVATED CARBON DRUM, COMPRESSOR SHED, PIPE SUPPORTS, ETC. (EXISTING RELOCATED)
  - REMOVE EXISTING PORTABLE PUMP HOSE QUICK DISCONNECT STATION NORTH PIPING BRANCH FROM 4" GS CROSS & RE-INSTALL TO END OF REMAINING 4" GS TANK HEADER PIPE. (FOR PIPING MODIFICATION NOTES SEE ITEM-1 & ITEM-2 ON DWG. U11)
  - ELECTRICAL EQUIPMENT, PANELS, SUPPORTS, CONTROLS & SERVICE (SEE ELECTRICAL DWGS.)
  - FOR SIMILAR CONSTRUCTION OF RELOCATED WASTEWATER TREATMENT SYSTEM SEE AS-BUILT DRAWINGS LISTED ON DRAWING G2 FOR PROJECT AWTC SITE & AREA CORRECTIVE MEASURES IMPLEMENTATION PROJECT (2005).

### LEGEND:

SYMBOL:	DESCRIPTION:
— W —	DOMESTIC WATER LINE
— W —	EXISTING WATER LINE (AS NOTED)
M	WATER METER
M	EXISTING WATER METER
⊗	RESILIENT GATE VALVE (UNO)
V	EXISTING VALVE & BOX
⊗	EXISTING VALVE & BOX
⊗	BACK FLOW PREVENTER
S — S —	SEWER LATERAL (AS NOTED)
— FM —	EXISTING FORCED MAIN SEWER LINE
— NG —	EXISTING NATURAL GAS
— F — F —	FIRE MAIN LINE
— F — F —	EXISTING FIRE MAIN LINE
[Hatched Box]	MESA RETAINING WALL W/ STRUCTURAL GEOGRID
10	INDEX CONTOUR
11	INTERMEDIATE CONTOUR
9.5	SPECIAL CONTOUR
10	EXISTING CONTOUR
---	PROPERTY OR STREET R/W BOUNDARY LINE
---	EXISTING RCP OR C.I.P. STORM DRAIN
---	RCP OR HDPE STORM DRAIN
---	TRENCH STORM DRAIN

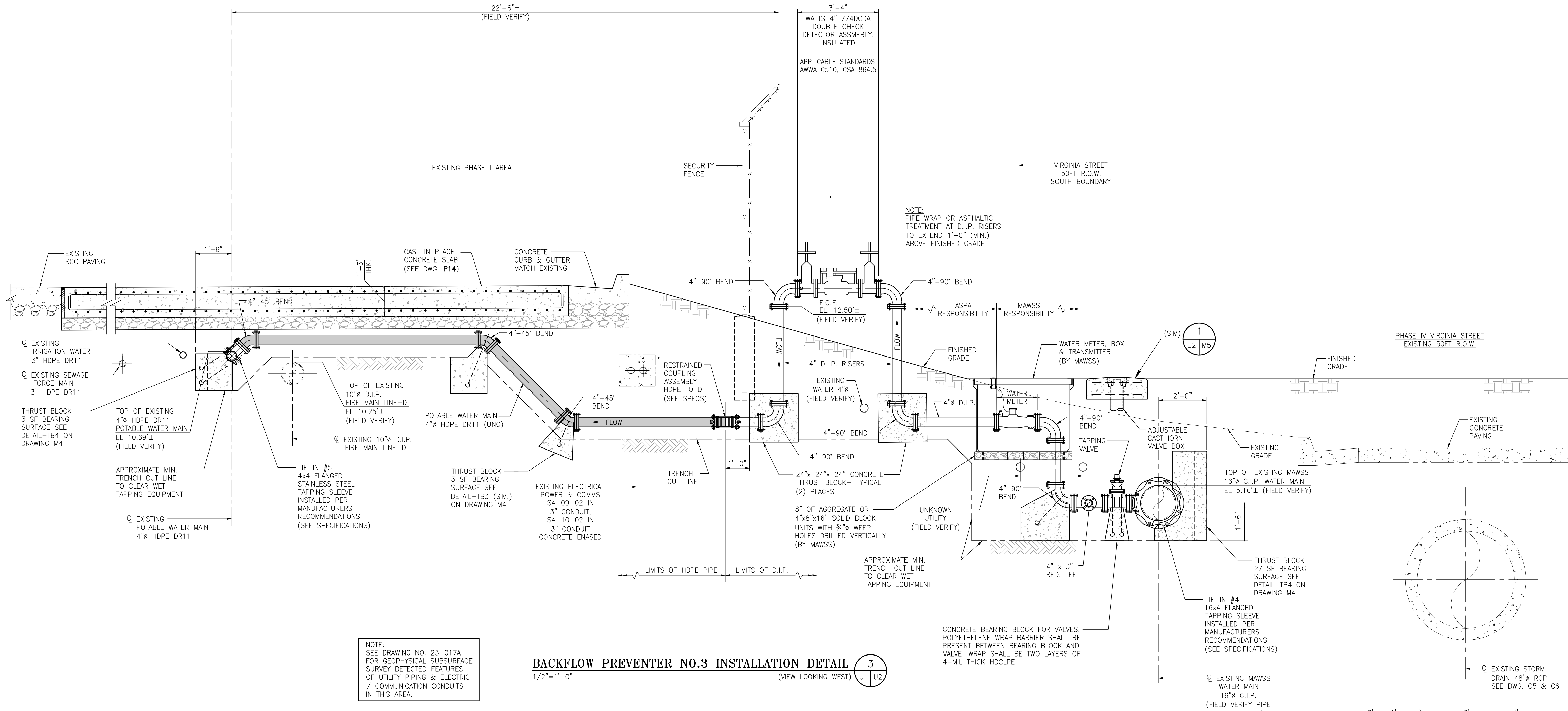


- #### NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - SEE MAWSS SANITARY SEWER STANDARD DRAWING SS-112B THRU SS-115 FOR LATERAL CONNECTION TO EXISTING 54" CIPP LINED SEWER MAIN & CLEANOUT DETAILS.
  - SEE MAWSS SANITARY SEWER STANDARD DRAWING SS-123 FOR TRENCH WIDTHS AND PAVING CUT BACK DETAILS (CONCRETE STREET).
  - SEE MAWSS SANITARY SEWER STANDARD DRAWING SS-124 FOR TEMPORARY PAVEMENT DETAILS (CONCRETE PAVEMENT).
  - SEE MAWSS SANITARY SEWER STANDARD DRAWING SS-126 FOR CONCRETE PAVEMENT REMOVAL AND REPLACEMENT DETAILS (CONCRETE STREET).
  - SEE MAWSS SANITARY SEWER STANDARD DRAWING SS-104D FOR PLUG & ABANDON BRICK MANHOLE/MAIN DETAILS (CONCRETE STREET).

REFERENCE DRAWINGS	NO.	REVISION	APPROVED	DATE
	A	ISSUED FOR BID	RST	04/05/24

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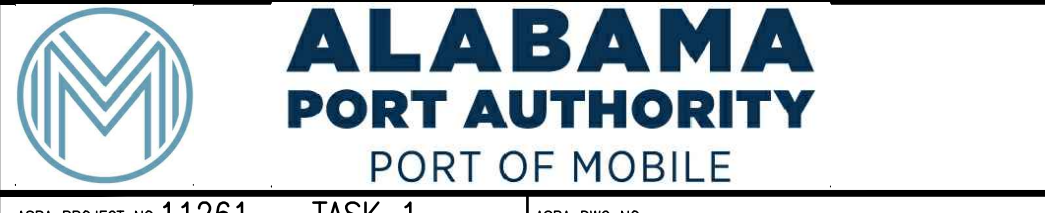
APMT PHASE IV YARD EXPANSION	
WATER, SEWER & WASTEWATER TREATMENT	
SYSTEM-RELOCATION PLAN (VIRGINIA ST R/W)	
FOR: ALABAMA PORT AUTHORITY	ASPA PROJECT NO: 11261 - TASK 1
PROJECT NO: 4484	DWG NO: U1
REV: A	



NOTE:  
SEE DRAWING NO. 23-017A  
FOR GEOPHYSICAL SUBSURFACE  
SURVEY DETECTED FEATURES  
OF UTILITY PIPING & ELECTRIC  
/ COMMUNICATION CONDUITS  
IN THIS AREA.

**BACKFLOW PREVENTER NO.3 INSTALLATION DETAIL** 3  
1/2"=1'-0" (VIEW LOOKING WEST) U1 U2

- GENERAL BACKFLOW PREVENTER NOTES:
1. PROVIDE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON HOW TO DRAIN ENTIRE BACKFLOW UNIT TO PREVENT FREEZING.
  2. PROTECT BACKFLOW DEVICE AND ALL PIPING ABOVE GRADE WITH INSULATION.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

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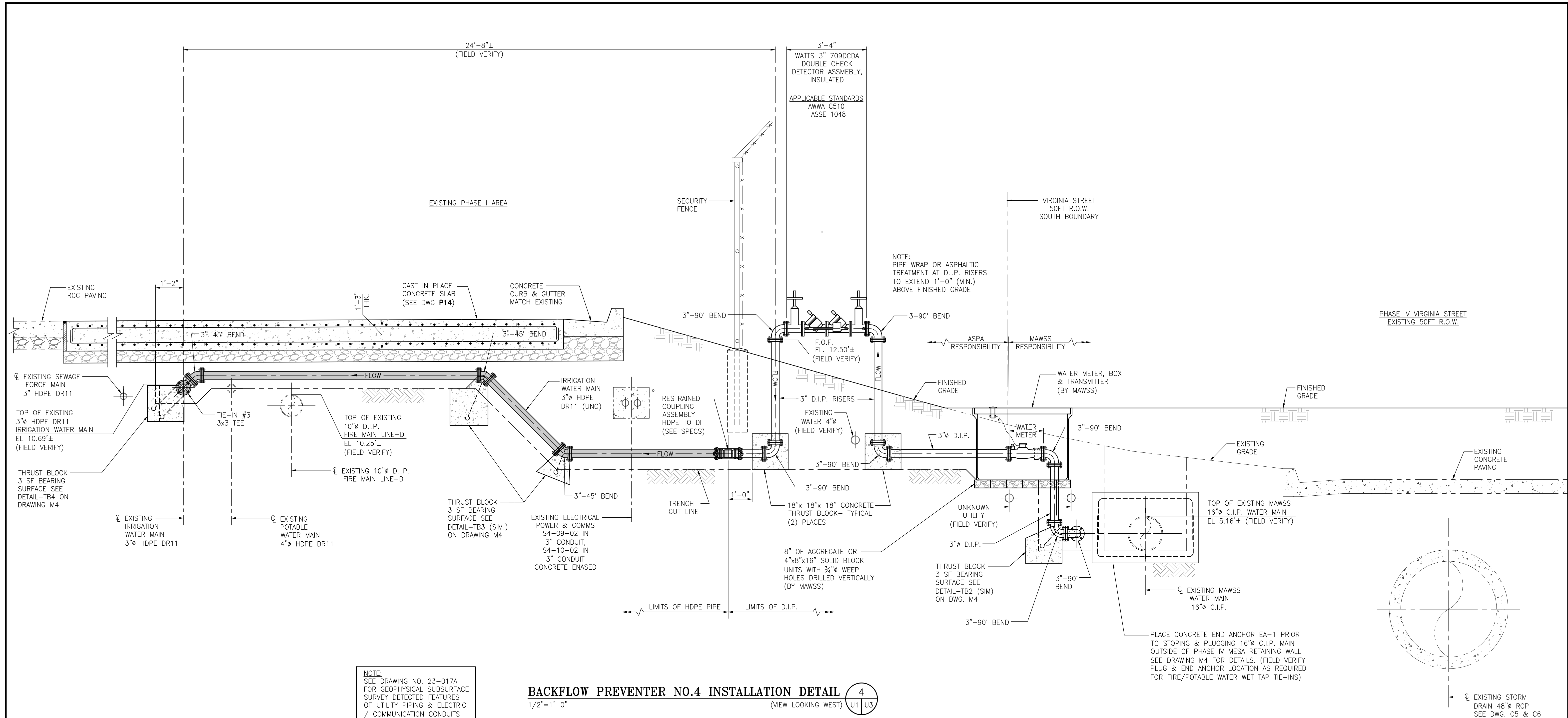
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: U2 REV: A

APMT PHASE IV YARD EXPANSION  
POTABLE WATER BACK FLOW PREVENTER NO.3  
AND MAIN LINE INSTALLATION DETAIL

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: U2 REV: A

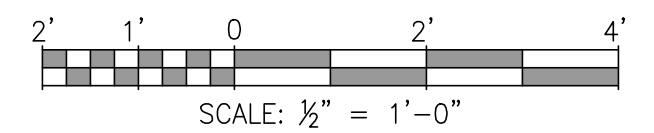


NOTE:  
SEE DRAWING NO. 23-017A  
FOR GEOPHYSICAL SUBSURFACE  
SURVEY DETECTED FEATURES  
OF UTILITY PIPING & ELECTRIC  
/ COMMUNICATION CONDUITS  
IN THIS AREA.

**BACKFLOW PREVENTER NO.4 INSTALLATION DETAIL** 4  
1/2"=1'-0" (VIEW LOOKING WEST) U1 U3

GENERAL BACKFLOW PREVENTER NOTES:

1. PROVIDE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS ON HOW TO DRAIN ENTIRE BACKFLOW UNIT TO PREVENT FREEZING.
2. PROTECT BACKFLOW DEVICE AND ALL PIPING ABOVE GRADE WITH INSULATION.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
IRRIGATION WATER BACK FLOW PREVENTER NO.4  
AND MAIN LINE INSTALLATION DETAIL

FOR: ALABAMA PORT AUTHORITY

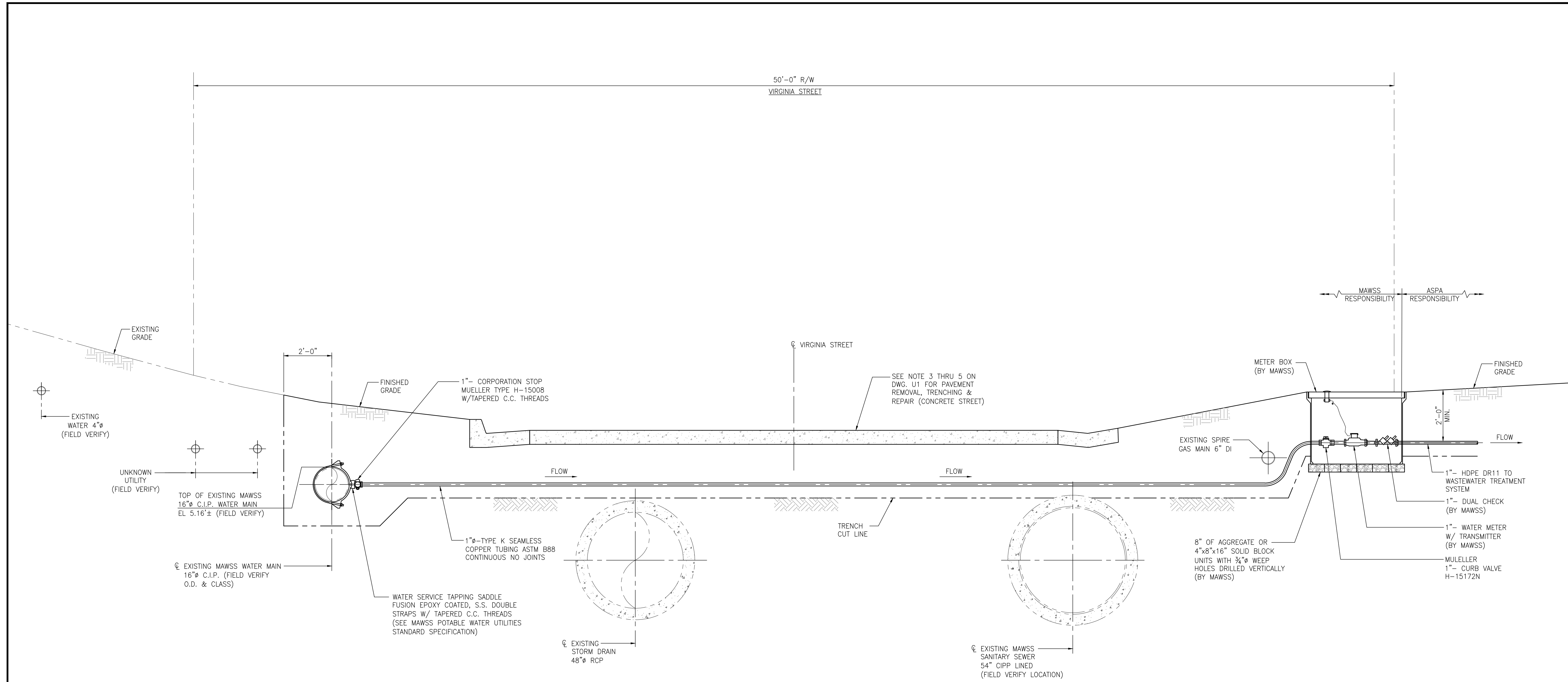
PROJECT NO: 4484 DWG NO: U3 REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
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REFERENCE DRAWINGS					



**WATER TREATMENT UNIT WATER SERVICE INSTALLATION-DETAIL** 4  
 1/2"=1'-0" (VIEW LOOKING WEST) U1,U5 | U4

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



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
 WATER TREATMENT UNIT  
 WATER SERVICE INSTALLATION DETAIL

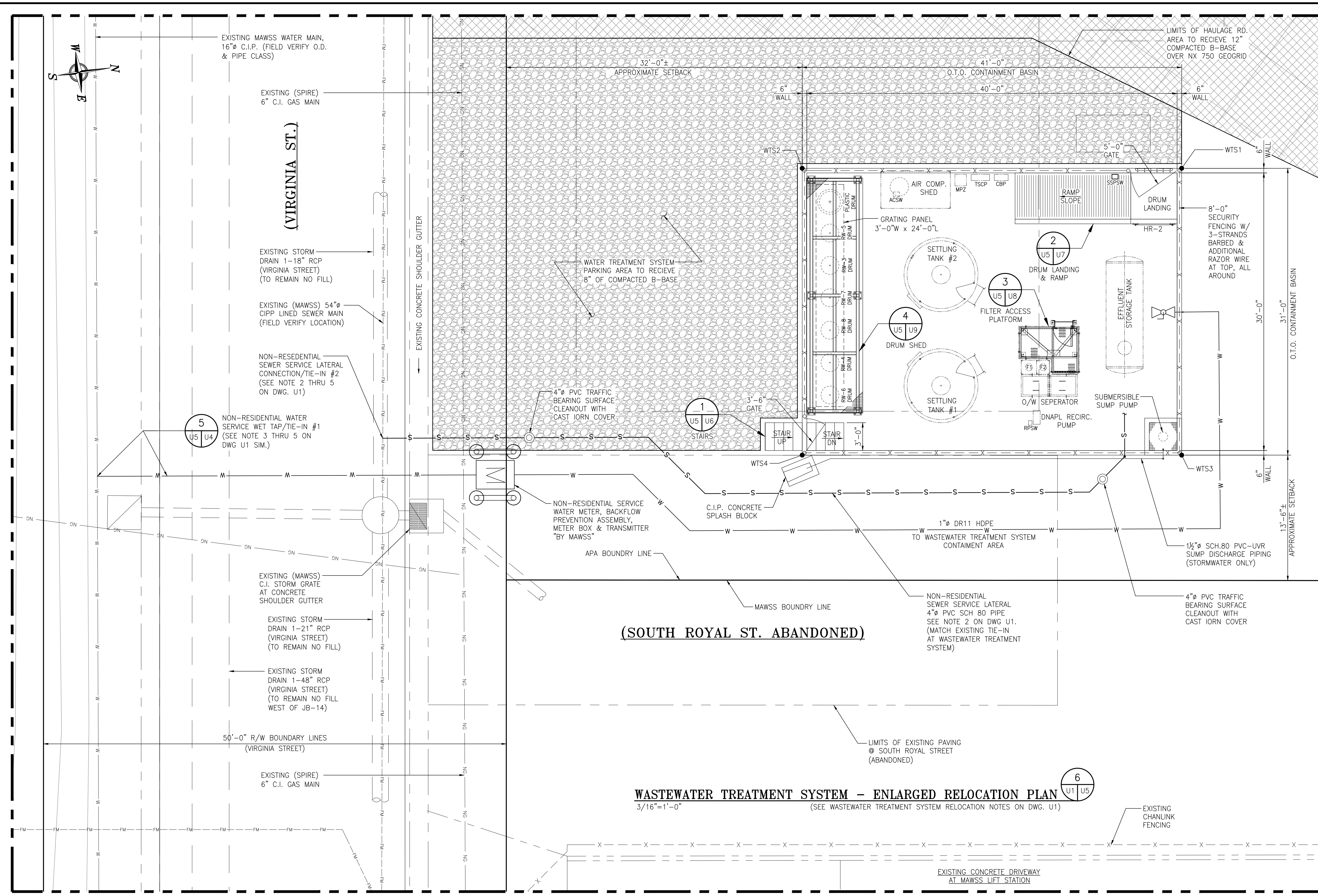
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: U4 REV: A



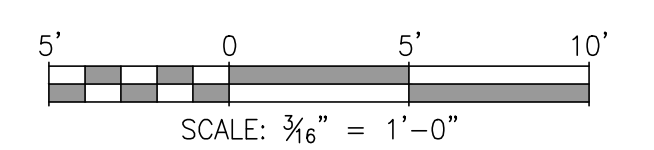
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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24
REFERENCE DRAWINGS					



(SOUTH ROYAL ST. ABANDONED)

**WASTEWATER TREATMENT SYSTEM - ENLARGED RELOCATION PLAN**  
 3/16"=1'-0" (SEE WASTEWATER TREATMENT SYSTEM RELOCATION NOTES ON DWG. U1)



NOTES

- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
- WORK THIS DRAWING WITH WASTEWATER TREATMENT SYSTEM RELOCATION NOTES SHOWN ON DRAWING U1 AND ASSOCIATED ELECTRICAL DRAWINGS.

NO.	REVISION	DATE	APPD.	CK'D.	DRAWN.
A	ISSUED FOR BID	04/05/24	RSG	MED	RST

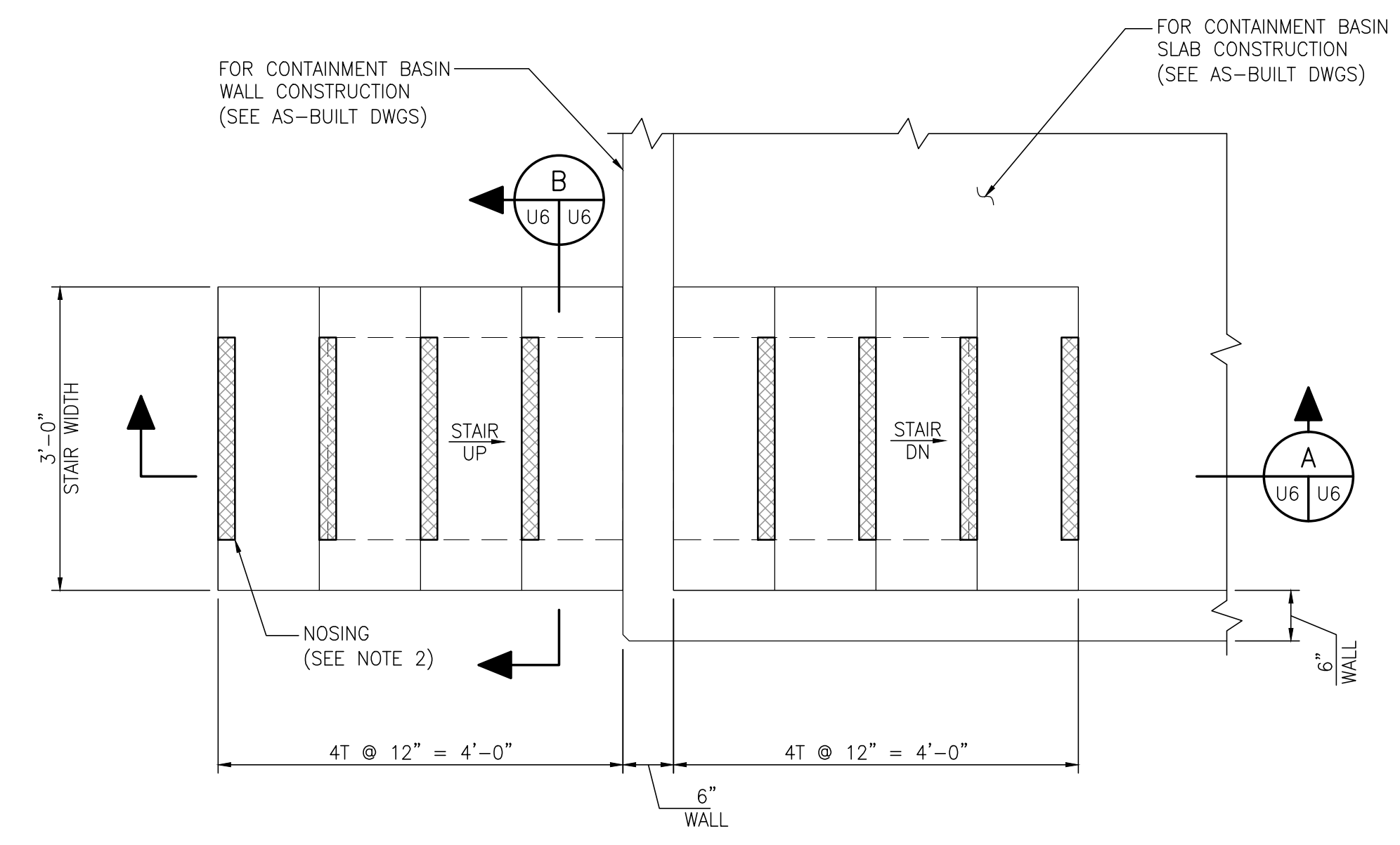
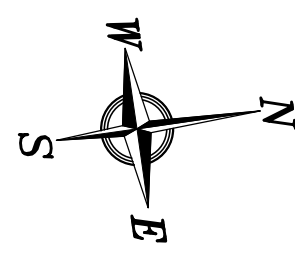
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ASPA PROJECT NO: 11261 - TASK 1  
 ASPA DWG NO: U5

APMT PHASE IV YARD EXPANSION  
 WASTEWATER TREATMENT SYSTEM  
 ENLARGED RELOCATION PLAN

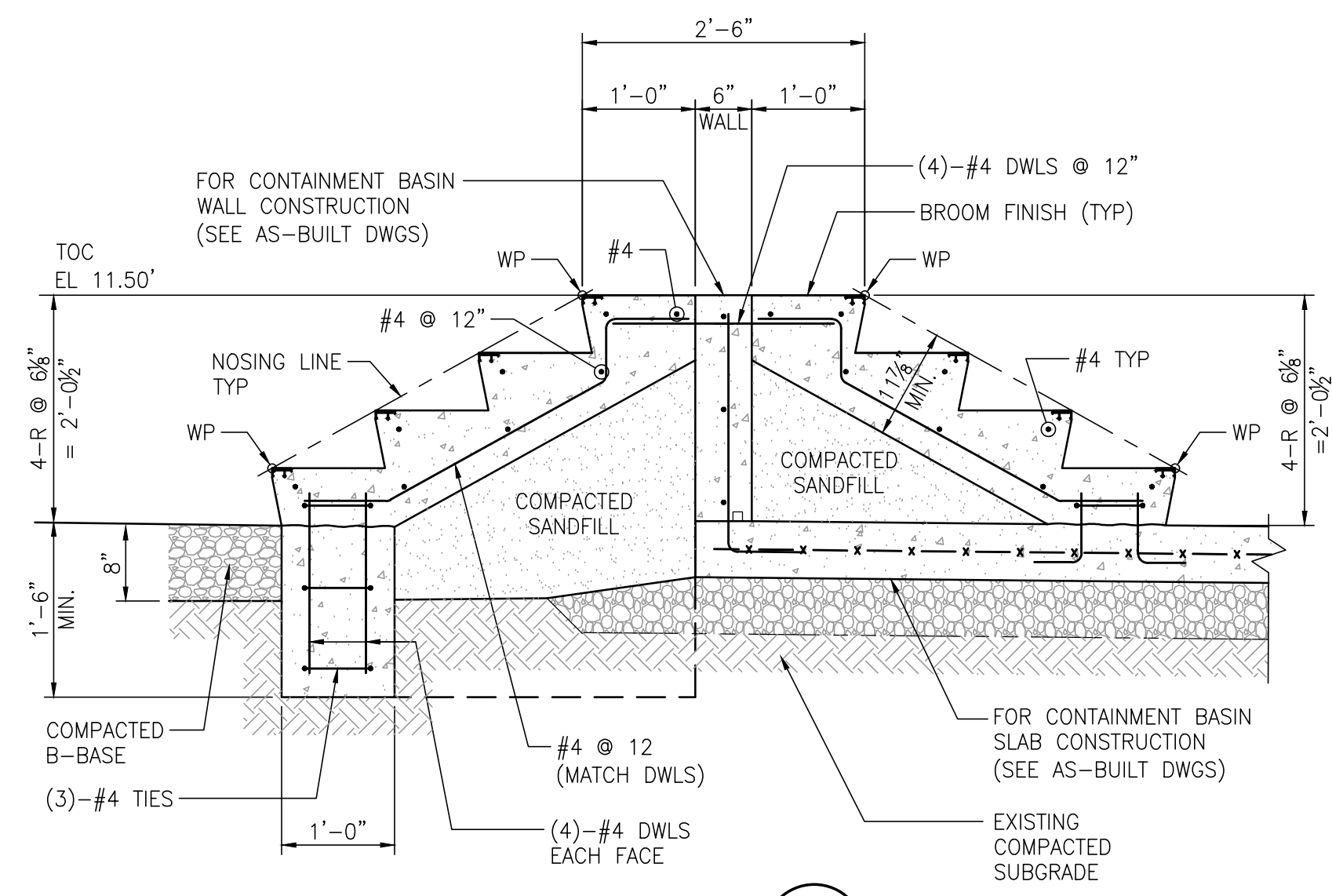
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484  
 DWG NO: U5  
 REV: A

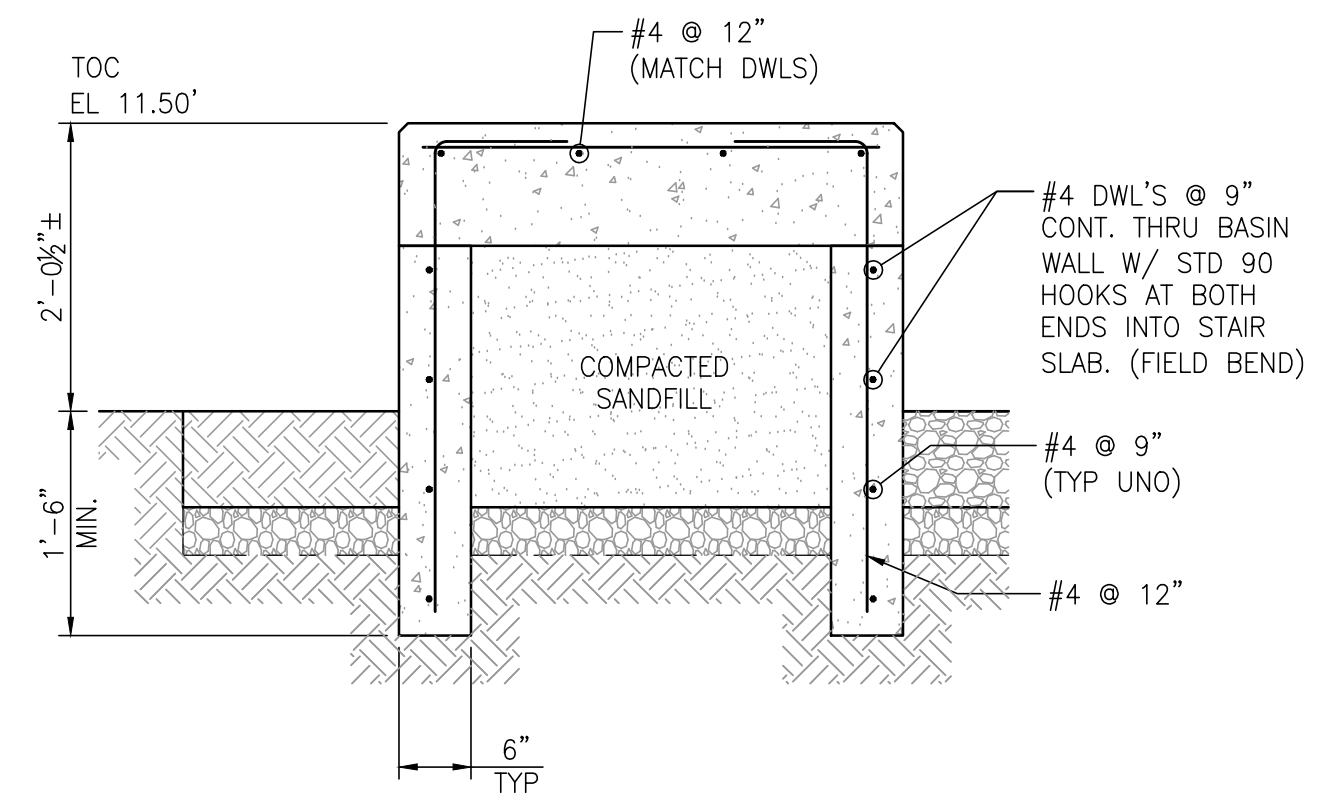


**STAIR - DETAIL**  
3/4"=1'-0"

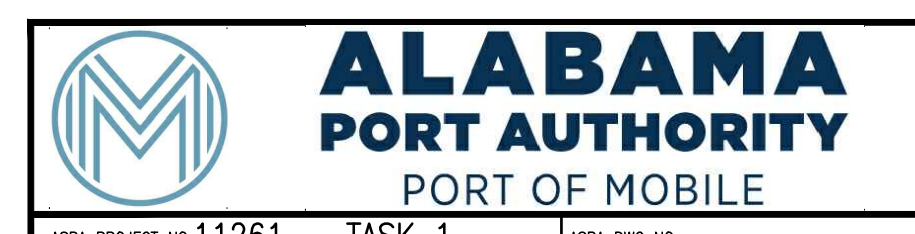
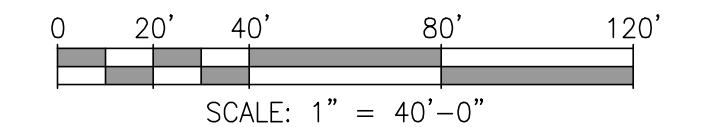
**NOTE:**  
SECURITY FENCE & GATES OMITTED IN THIS DETAIL & SECTIONS FOR CLARITY



**SECTION A**  
3/4"=1'-0"



**SECTION B**  
3/4"=1'-0"



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

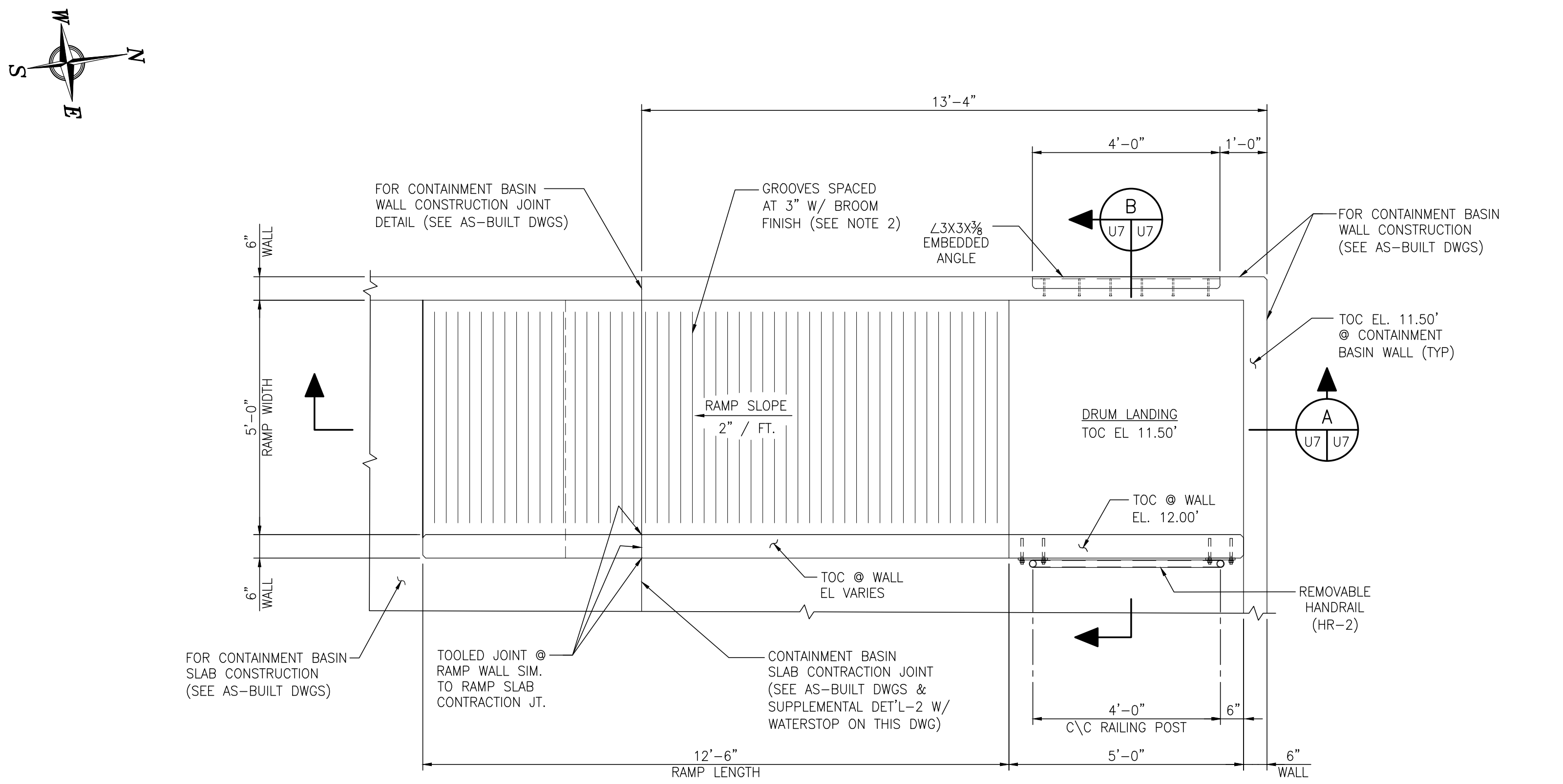
- NOTES**
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - NOSING SHALL BE WOOSTER NO. 101 ALUMOGRIT, 3" WIDE, (LENGTH = STAIR WIDTH MINUS 1'-0"). MANUFACTURED BY WOOSTER PRODUCTS INC. WOOSTER, OHIO OR APPROVED EQUAL.
  - A MINIMUM STD. 90° HOOK SHALL BE USED FOR ALL BENDS WHERE APPLICABLE.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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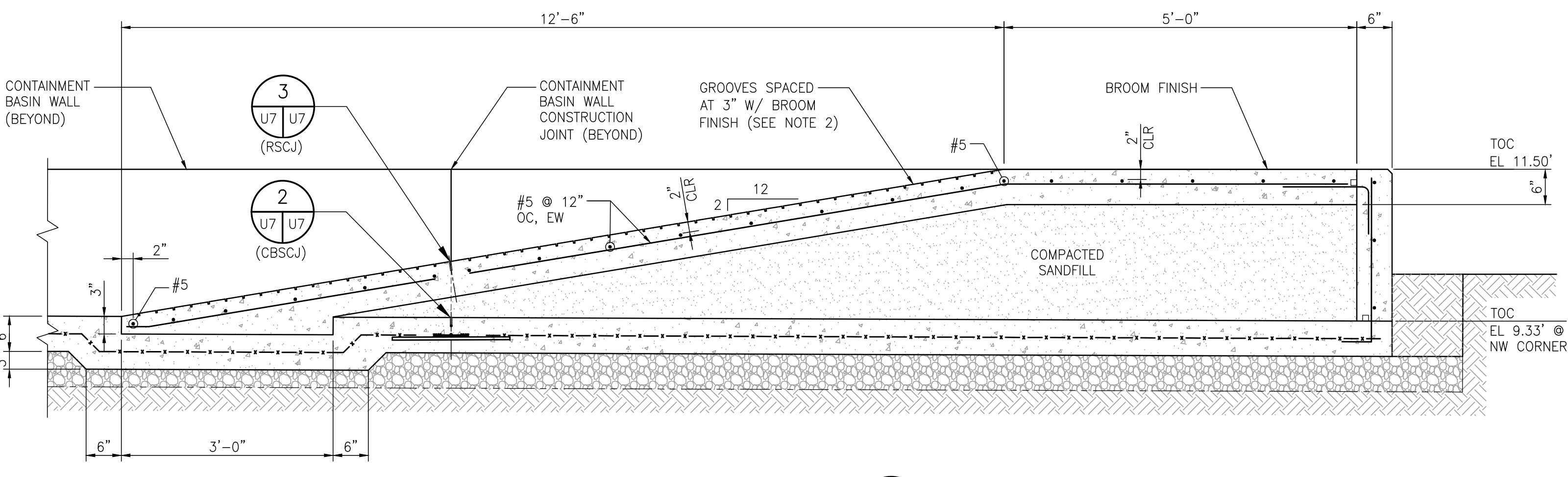
DRAWN: RST CK'D: MED APPD: RSG DATE: 04/24/23 SCALE: NOTED

APMT PHASE IV YARD EXPANSION	
WASTEWATER TREATMENT SYSTEM	
STAIR - PLAN & SECTIONS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: U6
REV: A	

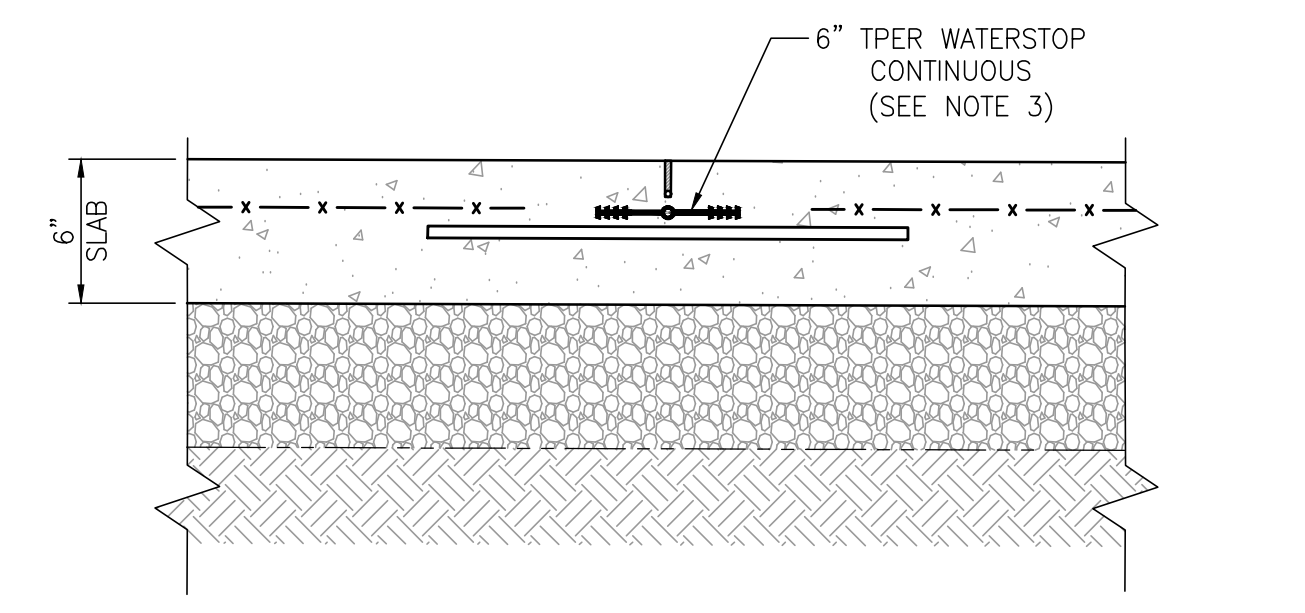


**DRUM LANDING & RAMP - DETAIL**  
1/2"=1'-0"

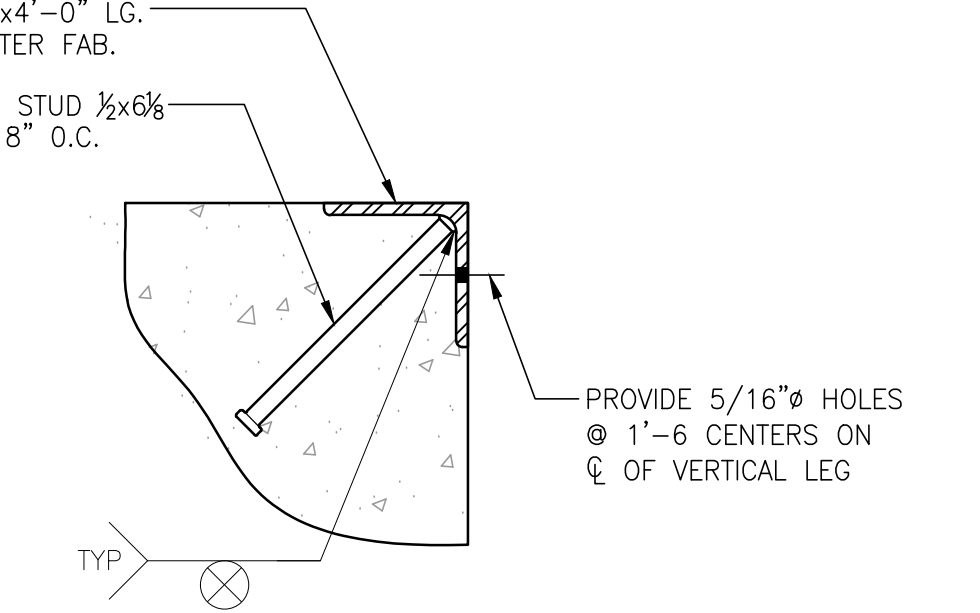
NOTE:  
SECURITY FENCE & GATES  
OMITTED IN THIS DETAIL &  
SECTIONS FOR CLARITY



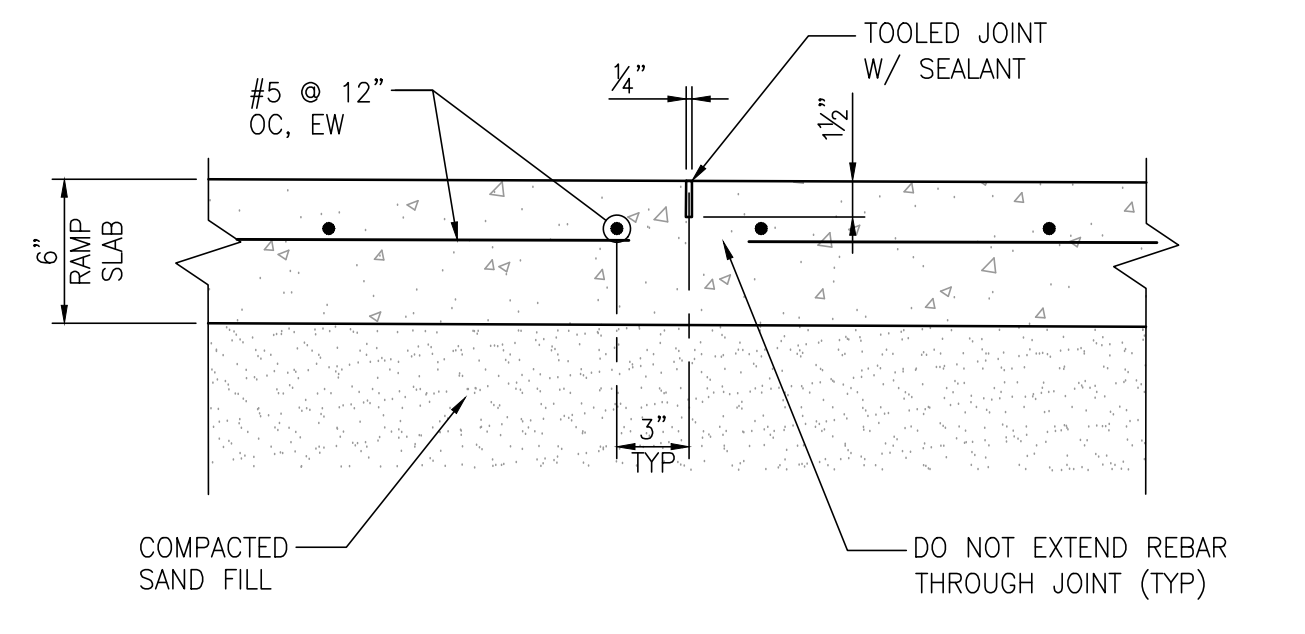
**SECTION A**  
3/4"=1'-0"



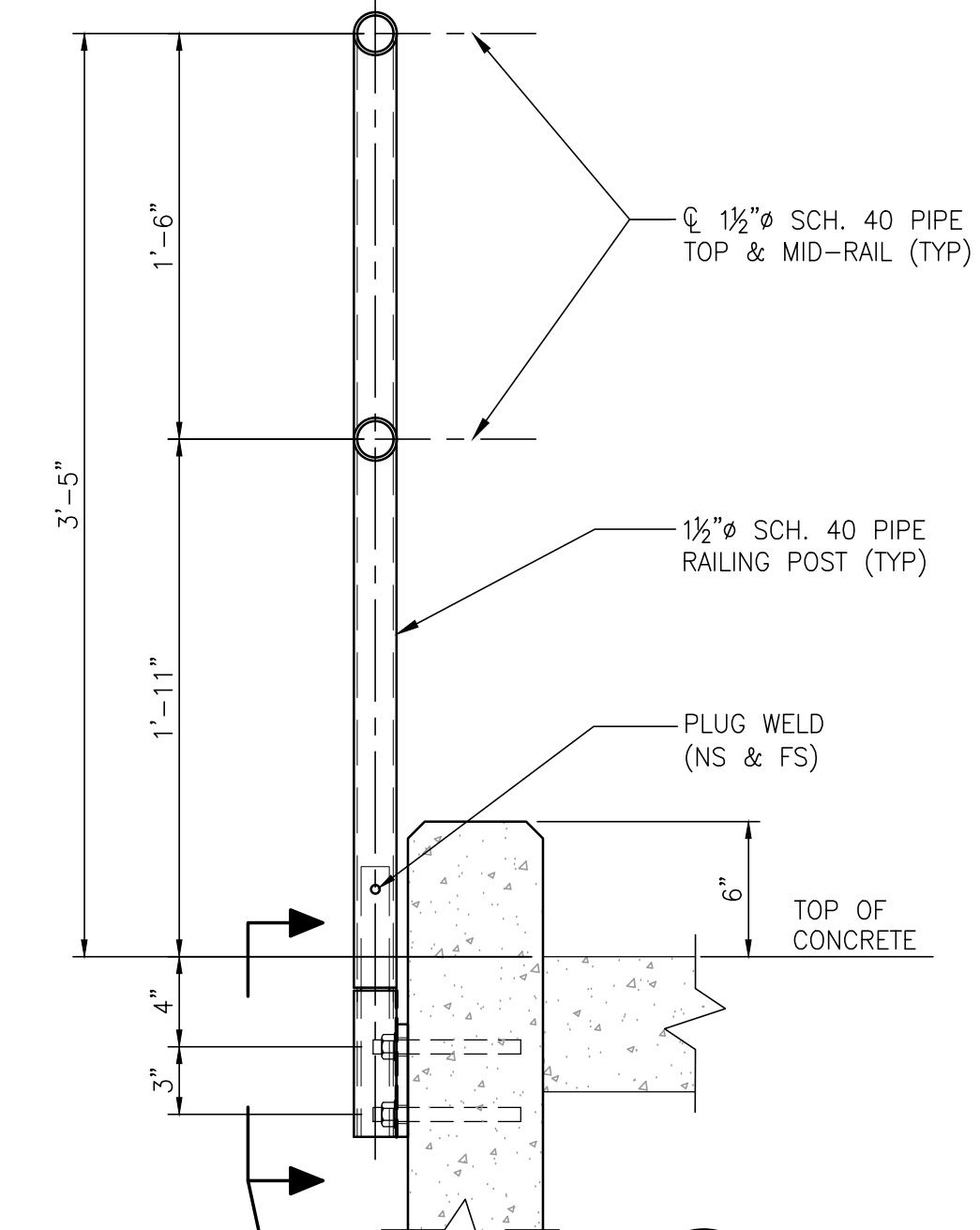
**CONTAINMENT BASIN SLAB  
CONTRACTION JOINT W/WATERSTOP-DETAIL**  
1 1/2"=1'-0"



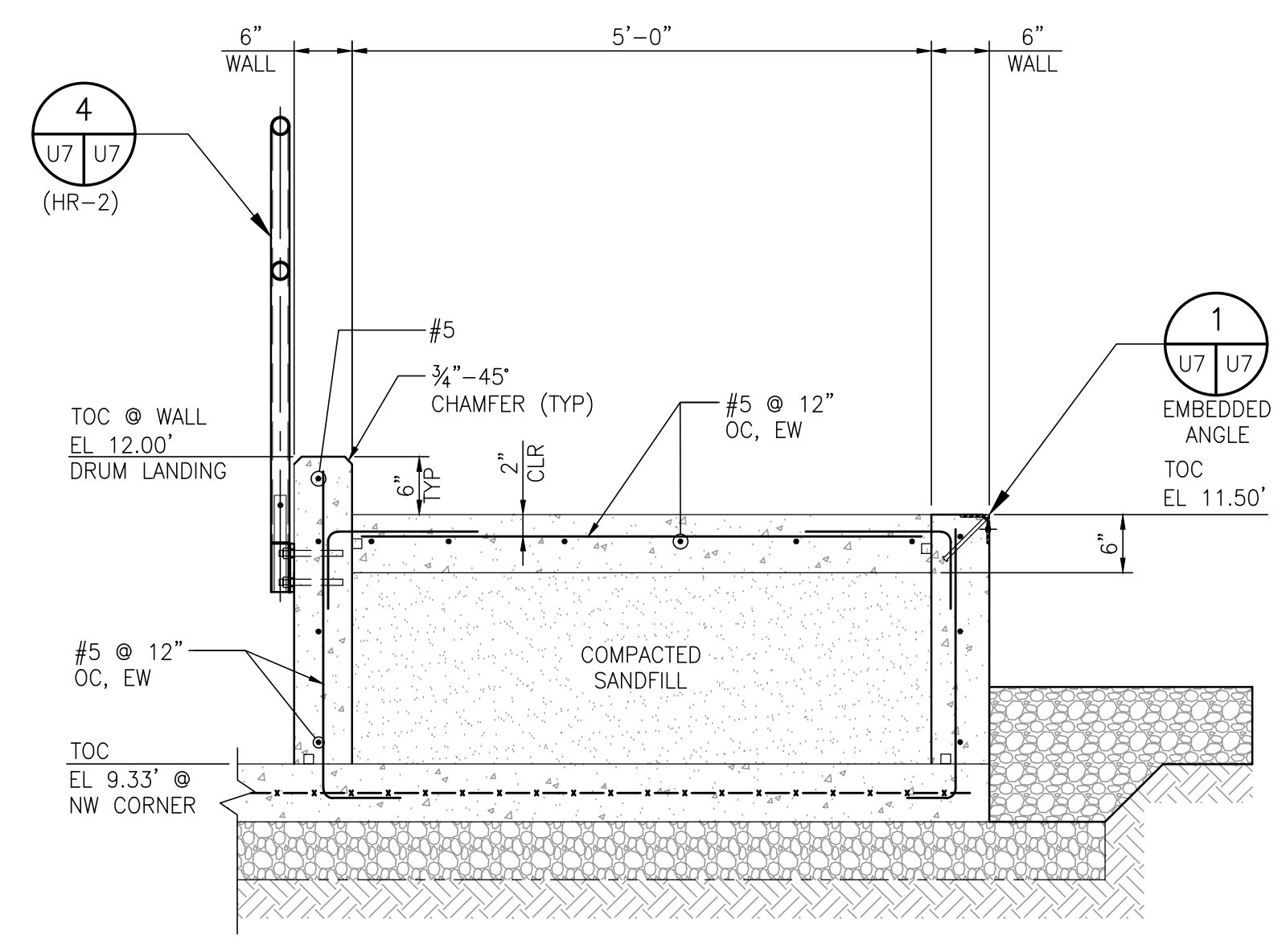
**EMBEDDED ANGLE-DETAIL**  
3"=1'-0"



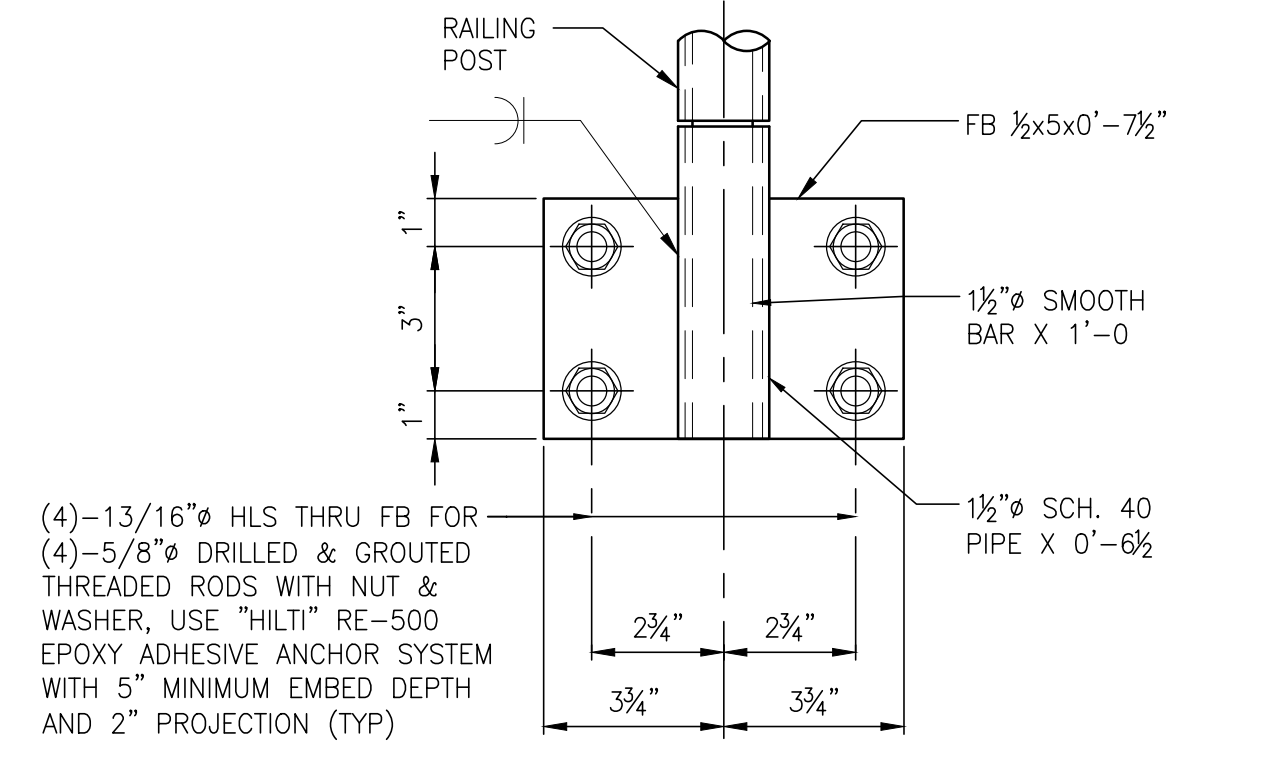
**RAMP SLAB CONTRACTION JOINT**  
1 1/2"=1'-0"



**HANDRAIL-DETAIL**  
1 1/2"=1'-0"



**SECTION B**  
3/4"=1'-0"



- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - RAMP SHALL HAVE A BROOM FINISH AND SHALL BE GROOVED ON 3" CENTERS ACROSS RAMP WITH STANDARD CEMENT JOINTER.
  - WATERSTOP SHALL BE 6" X 3/16" THERMOPLASTIC ELASTOMERIC RUBBER (TPER) RIBBED WITH CENTER BULB (STYLE #619 BLACK) AS MANUFACTURED BY WESTEC BARRIERS TECHNOLOGIES. WATERSTOP REQUIRED BELOW ALL SAWED CONTRACTION JOINTS AT TANK FARM CONTAINMENT BASIN SLAB. SEE CONTRACTION JOINT LAYOUT AND SECTIONS ON AS-BUILT REFERENCE DRAWINGS M4 AND C14.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

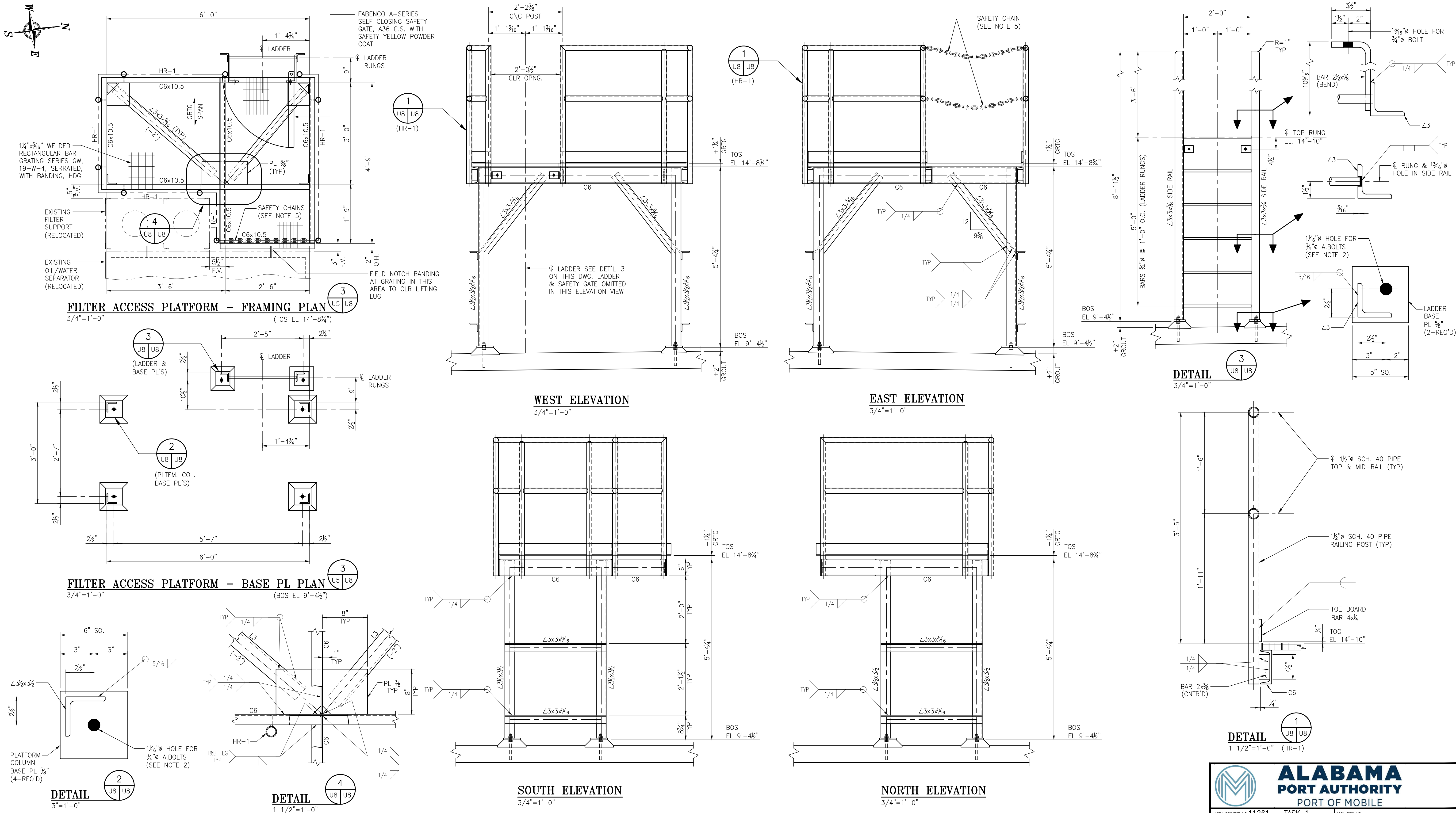
ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
WASTEWATER TREATMENT SYSTEM  
DRUM LANDING/RAMP-PLAN, SECT'S & DETL'S

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484  
DWG NO: U7  
REV: A





- NOTES
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - USE "HILTI" RE-500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 3/4" A307 THREADED RODS W/2-NUTS AND WASHER, H.D.G., 5" MIN. EMBEDMENT DEPTH AND 4/2" PROJECTION (TYP)
  - ALL STRUCTURAL STEEL TO BE H.D.G. AFTER FABRICATION.
  - PROVIDE 1/4" HOLES NEAR ALL HANDRAIL JOINTS FOR GALVANIZING.
  - #2/0 PASSING LINK CHAIN (MIN.) WITH HEAVY DUTY STEEL SNAP HOOK & CONNECTING LINK. WELD SINGLE CHAIN LINK TO HANDRAIL POSTS AS REQ'D FOR SNAP HOOK & SAFETY CHAIN CONNECTIONS.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/24/23 SCALE: NOTED

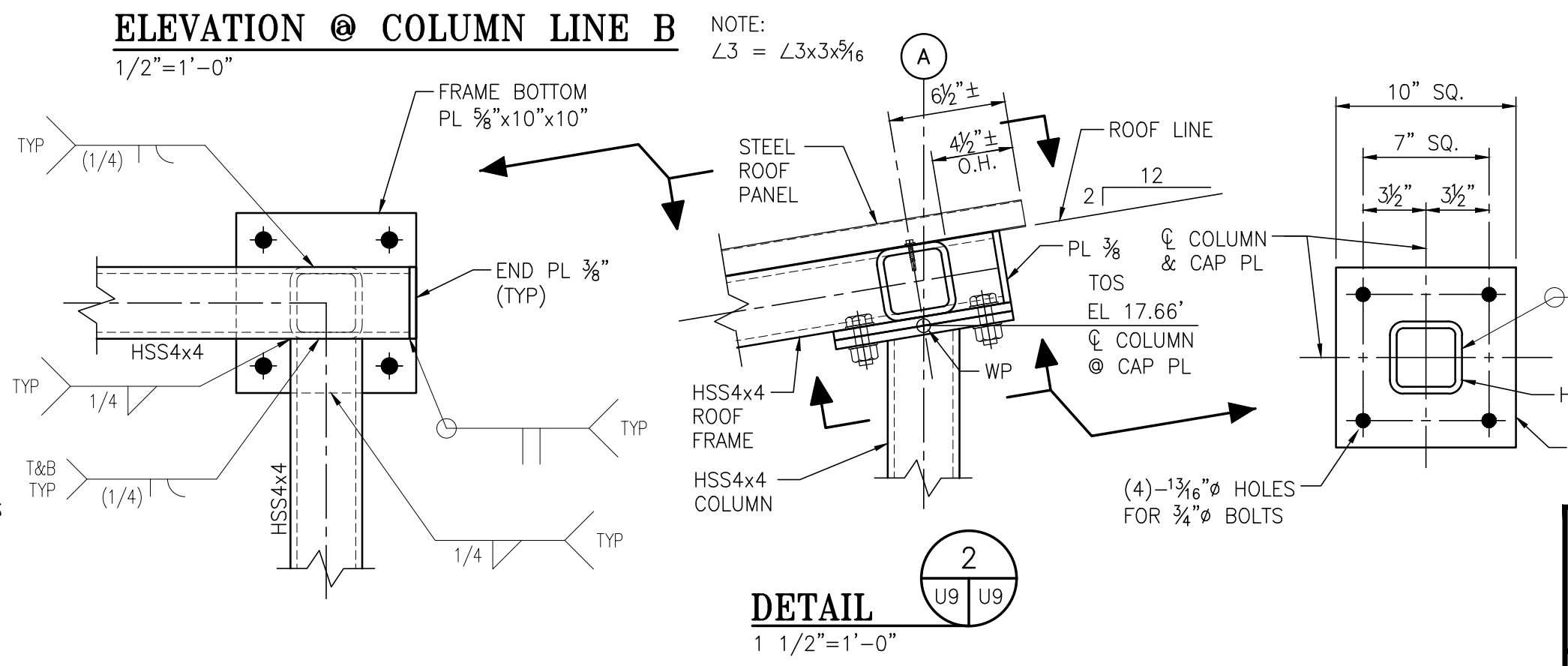
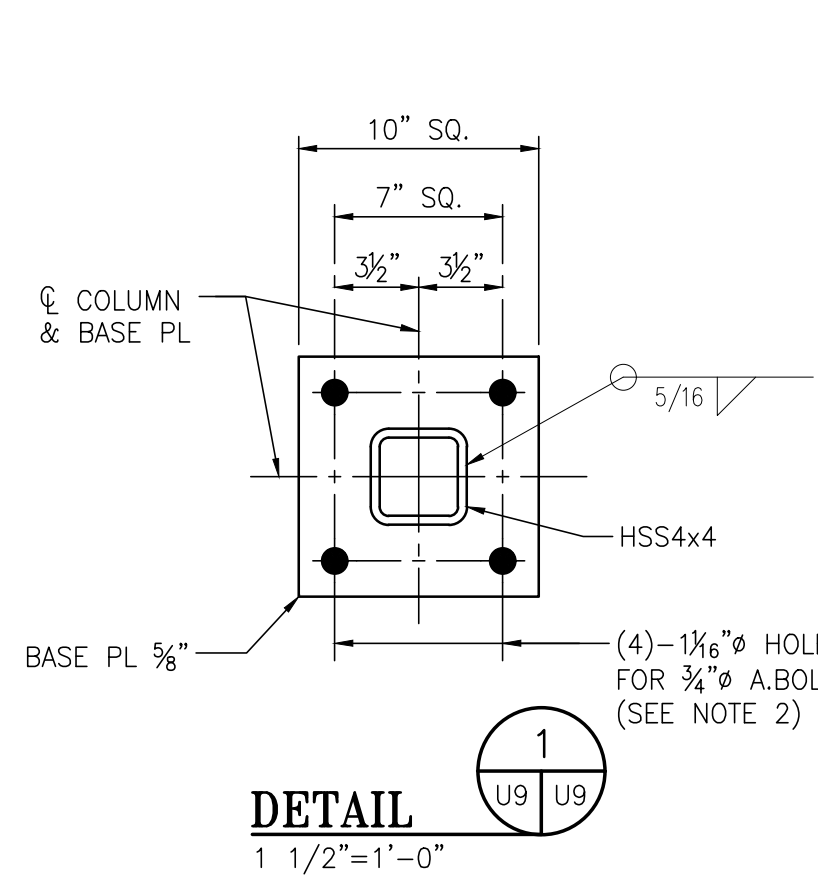
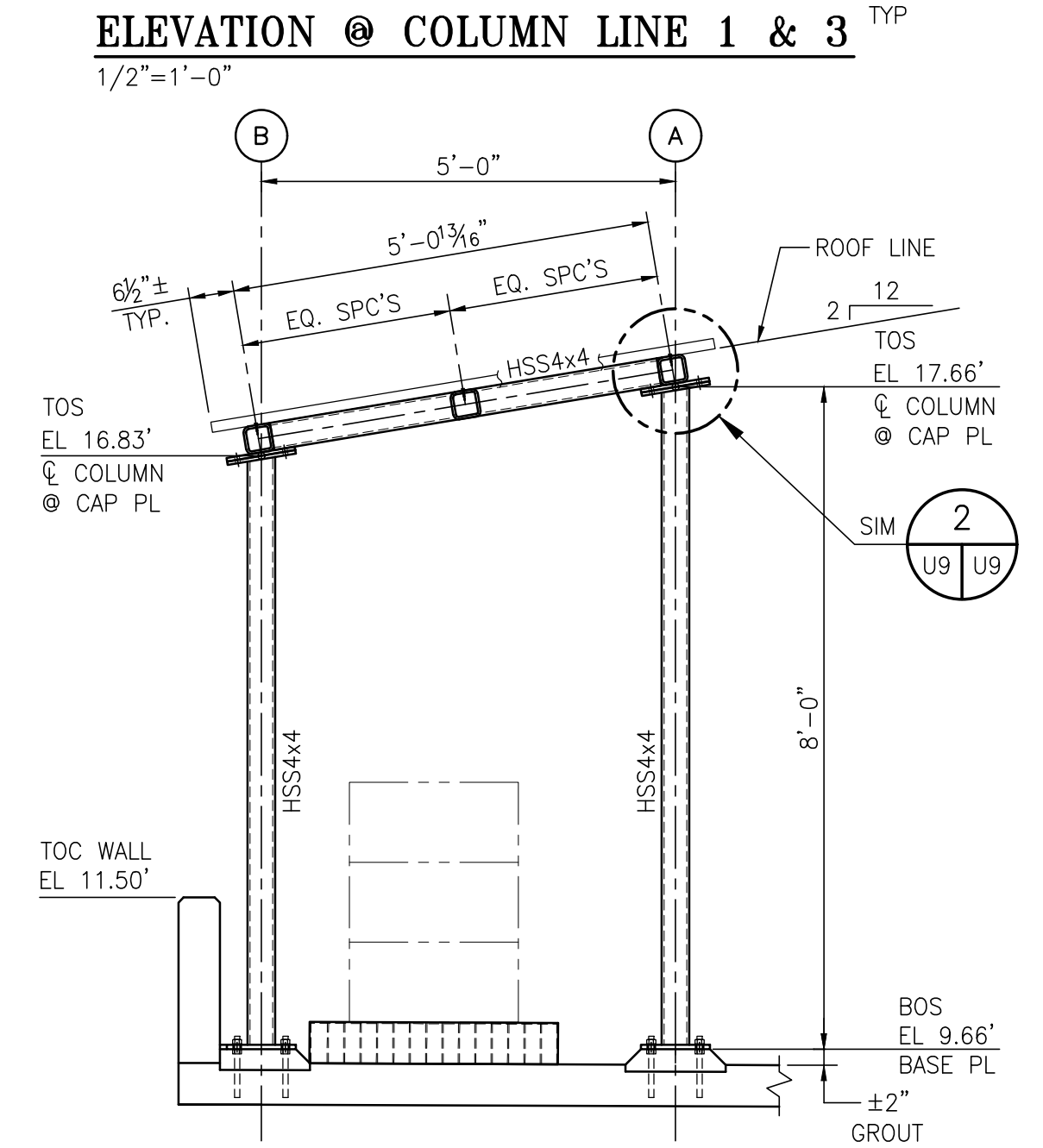
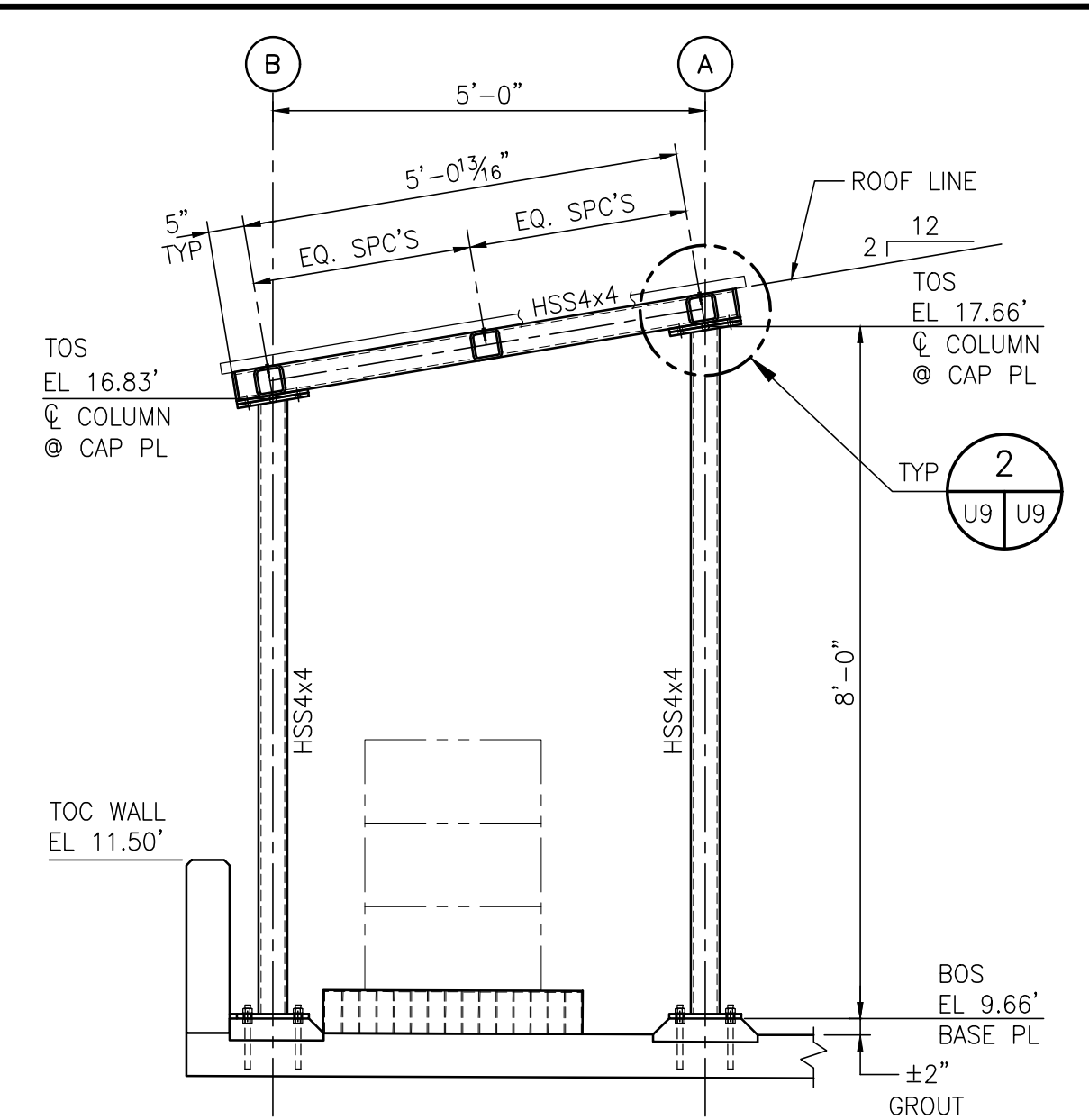
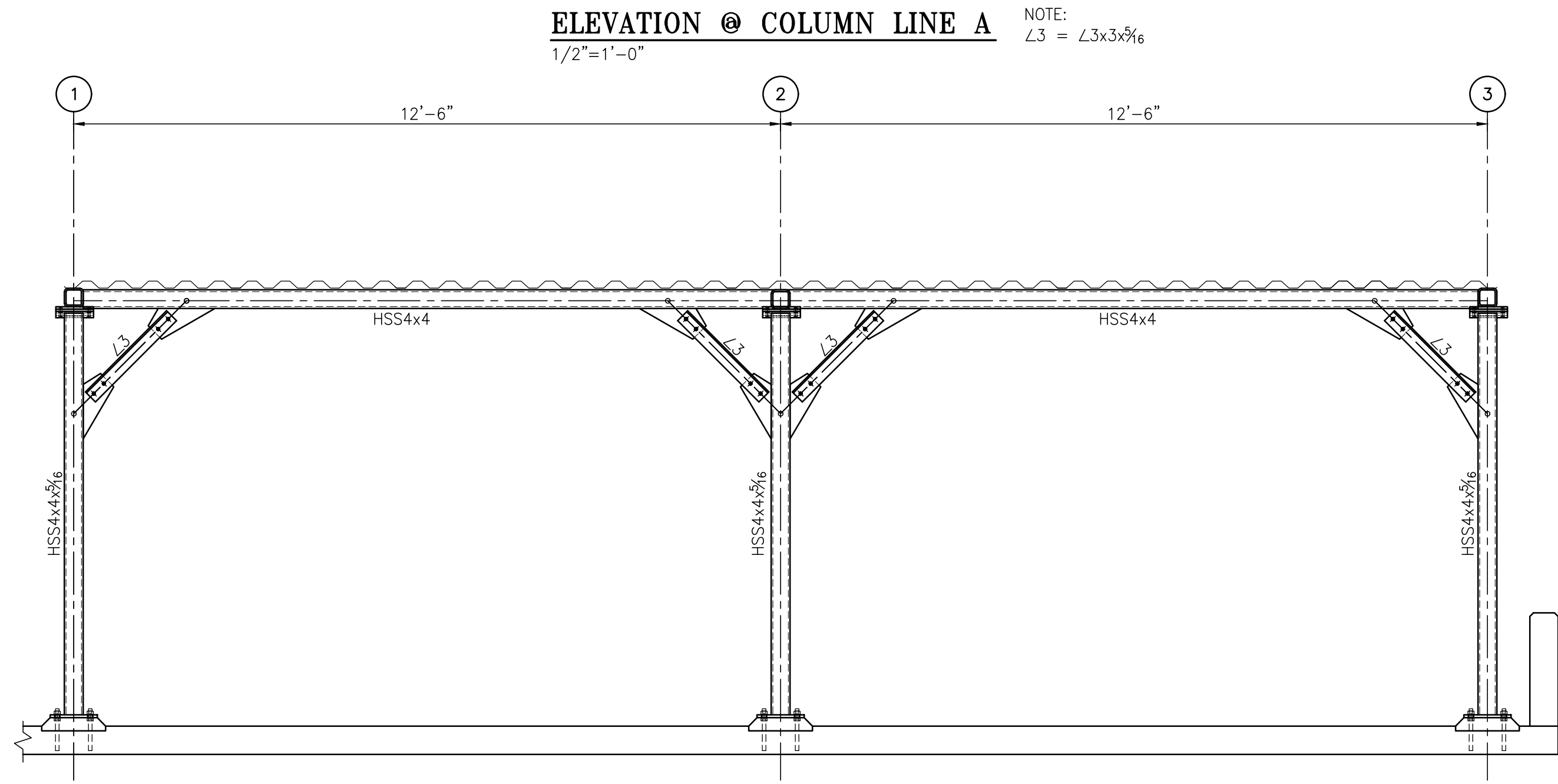
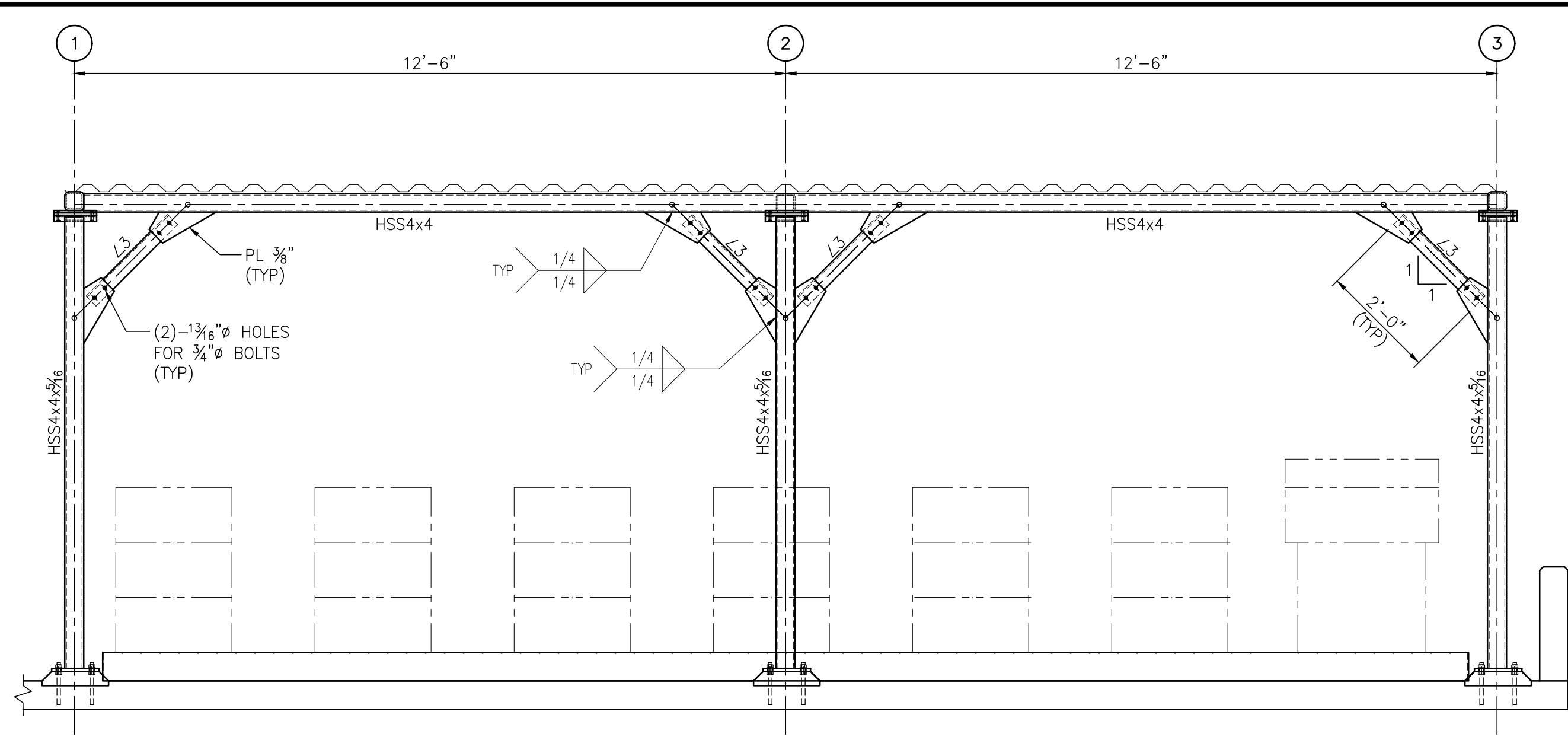
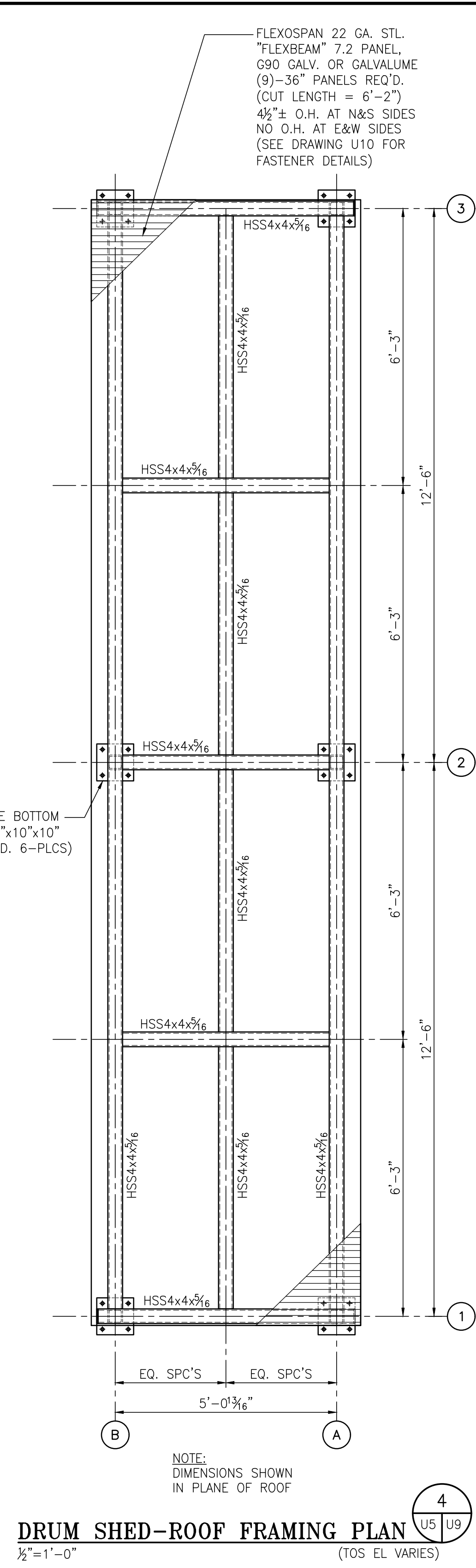
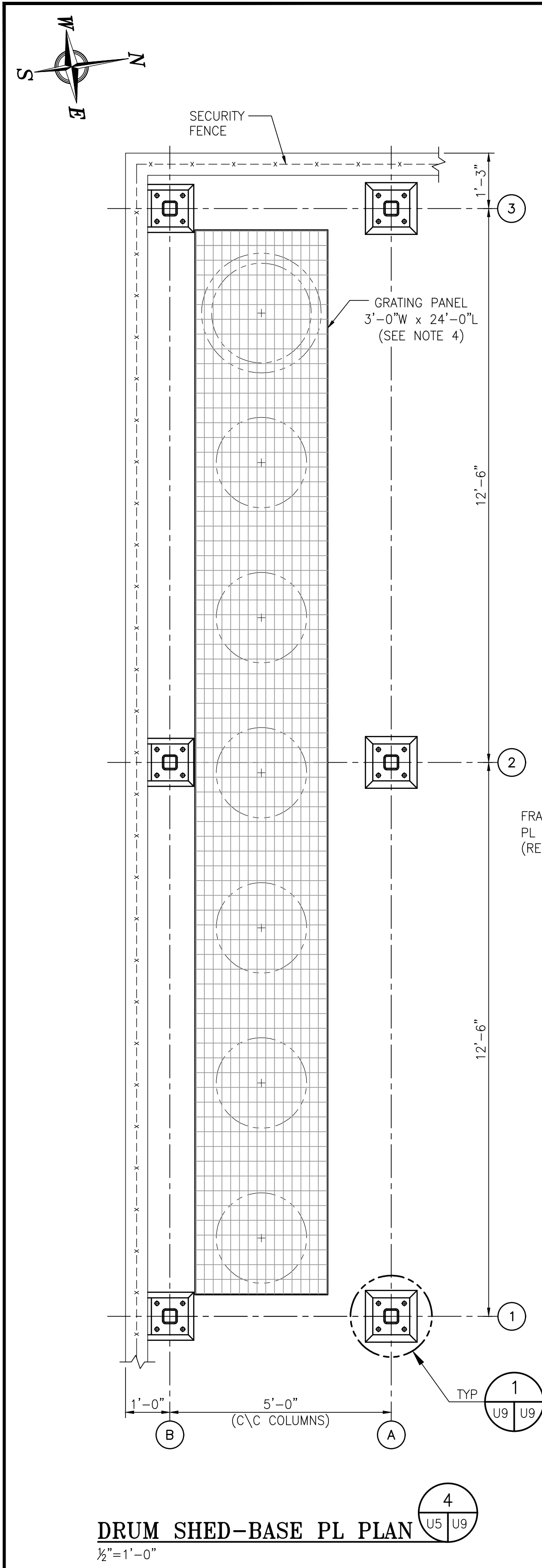
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
WASTEWATER TREATMENT SYSTEM  
FILTER ACCESS PLATFORM FRAMING DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: U8 REV: A



- NOTES**
- SEE DRAWING G3 FOR PROJECT GENERAL NOTES.
  - USE "HILTI" RE-500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 3/8"Ø A307 THREADED RODS W/2 NUTS AND WASHER, H.D.G., 5" MIN. EMBEDMENT DEPTH AND 4 1/2" PROJECTION (TYP)
  - ALL STRUCTURAL STEEL TO BE H.D.G. AFTER FABRICATION.
  - GRATING PANEL UNDER DRUMS SHALL BE WELDED BAR GRATING 38-W-4 WITH 6"x4" BEARING BARS, BANDED ALL AROUND AND HOT DIP GALVANIZED.
  - PROVIDE 1/2"Ø HOLES NEAR ALL ROOF FRAME JOINTS & COLUMN PLATES FOR GALVANIZING.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

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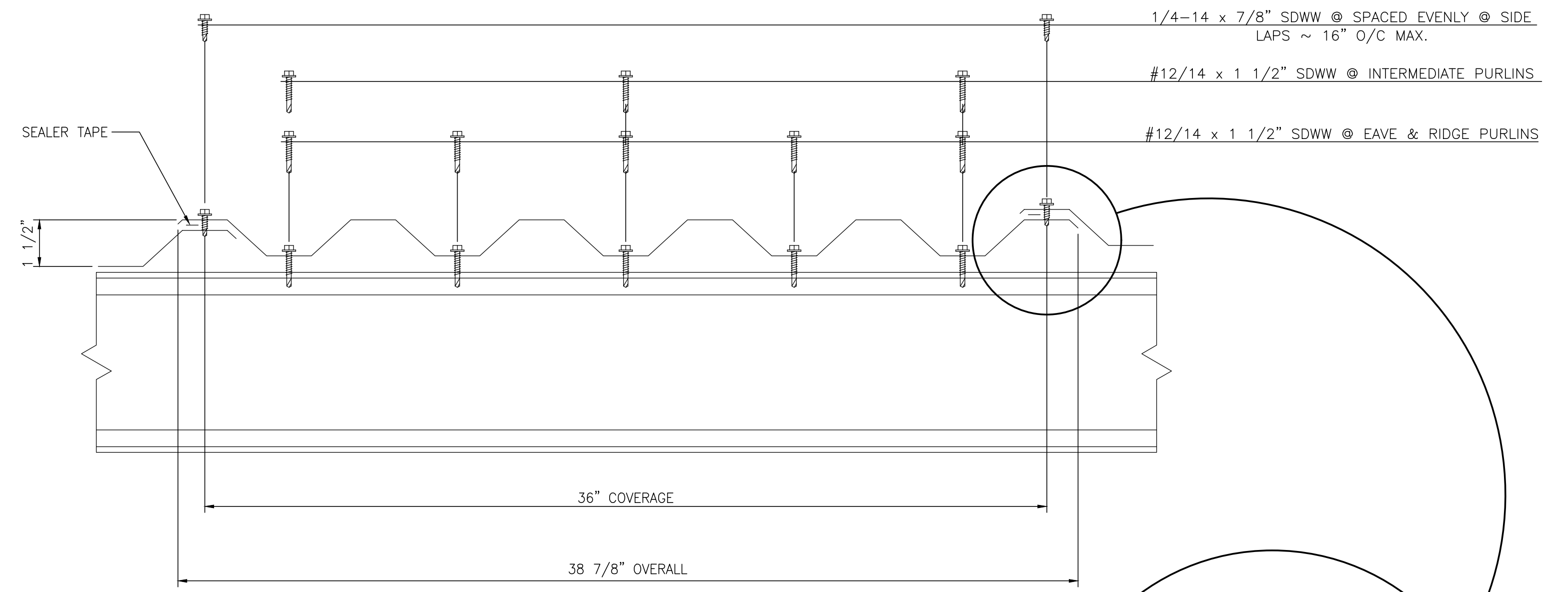
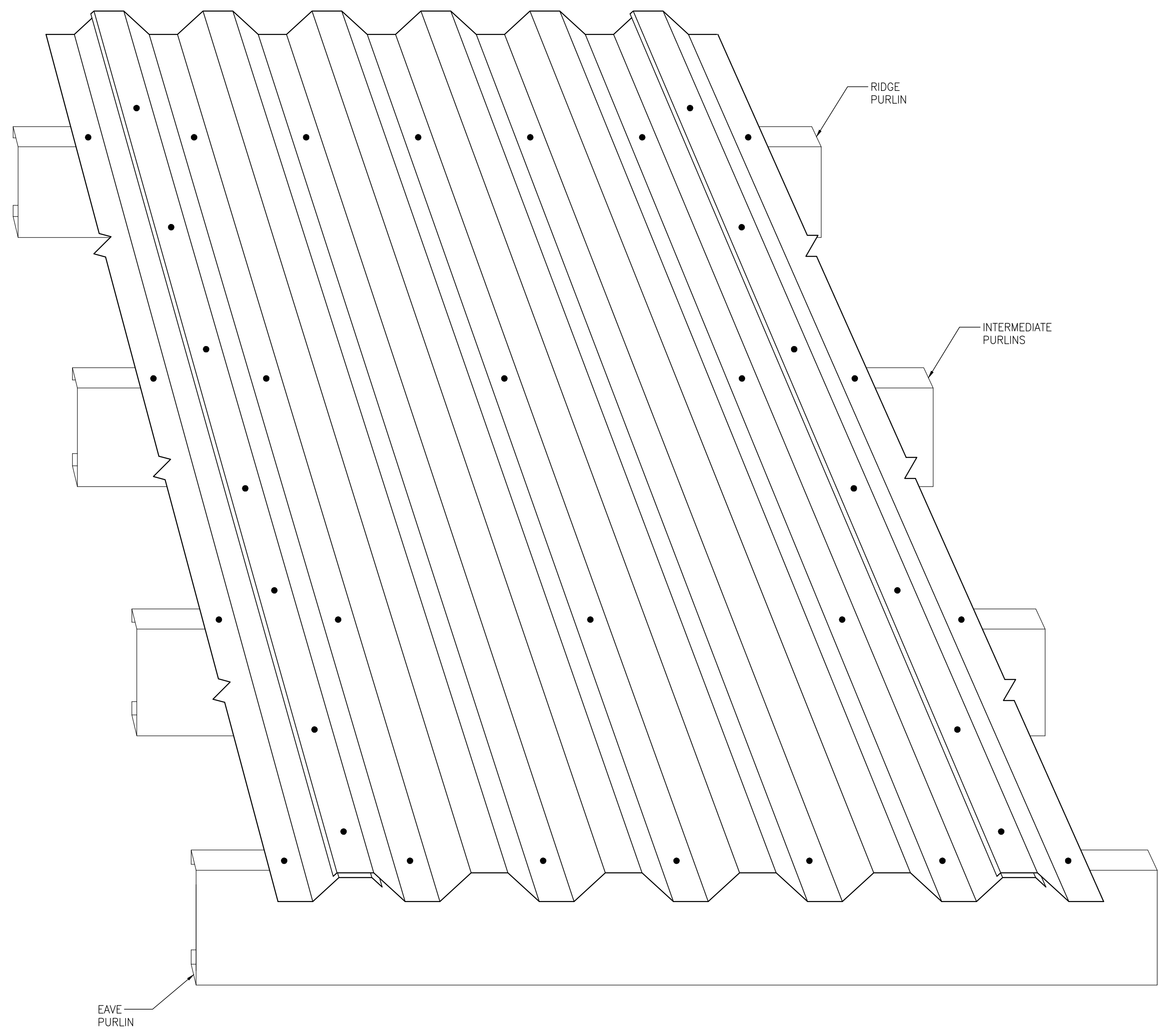
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1  
ASPA DWG NO:

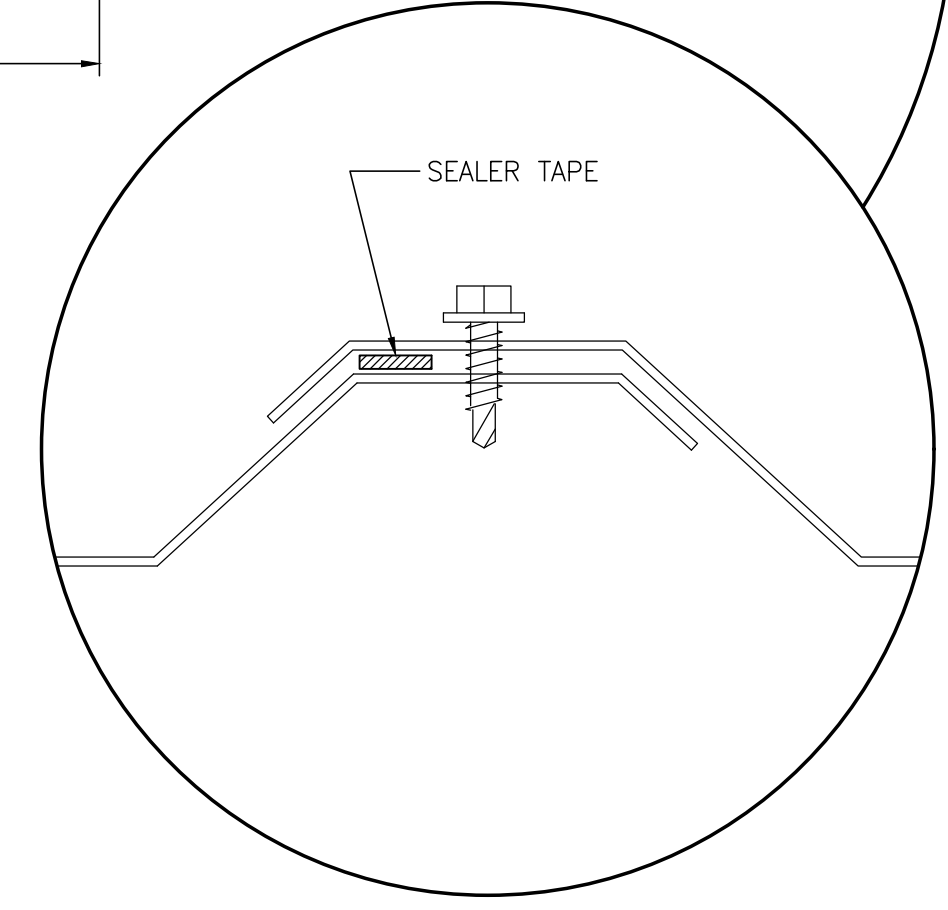
APMT PHASE IV YARD EXPANSION  
WASTEWATER TREATMENT SYSTEM  
DRUM SHED-FRAMING PLAN, ELEV'S & DETL'S

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484  
DWG NO: U9  
REV: A



NOTE:  
SEALER TAPE TO BE USED @ ALL SIDE & END LAPS ON ROOF PITCHES 4:12 AND LESS.



**ISOMETRIC ROOFING FASTENER DETAIL**  
NTS



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES  
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

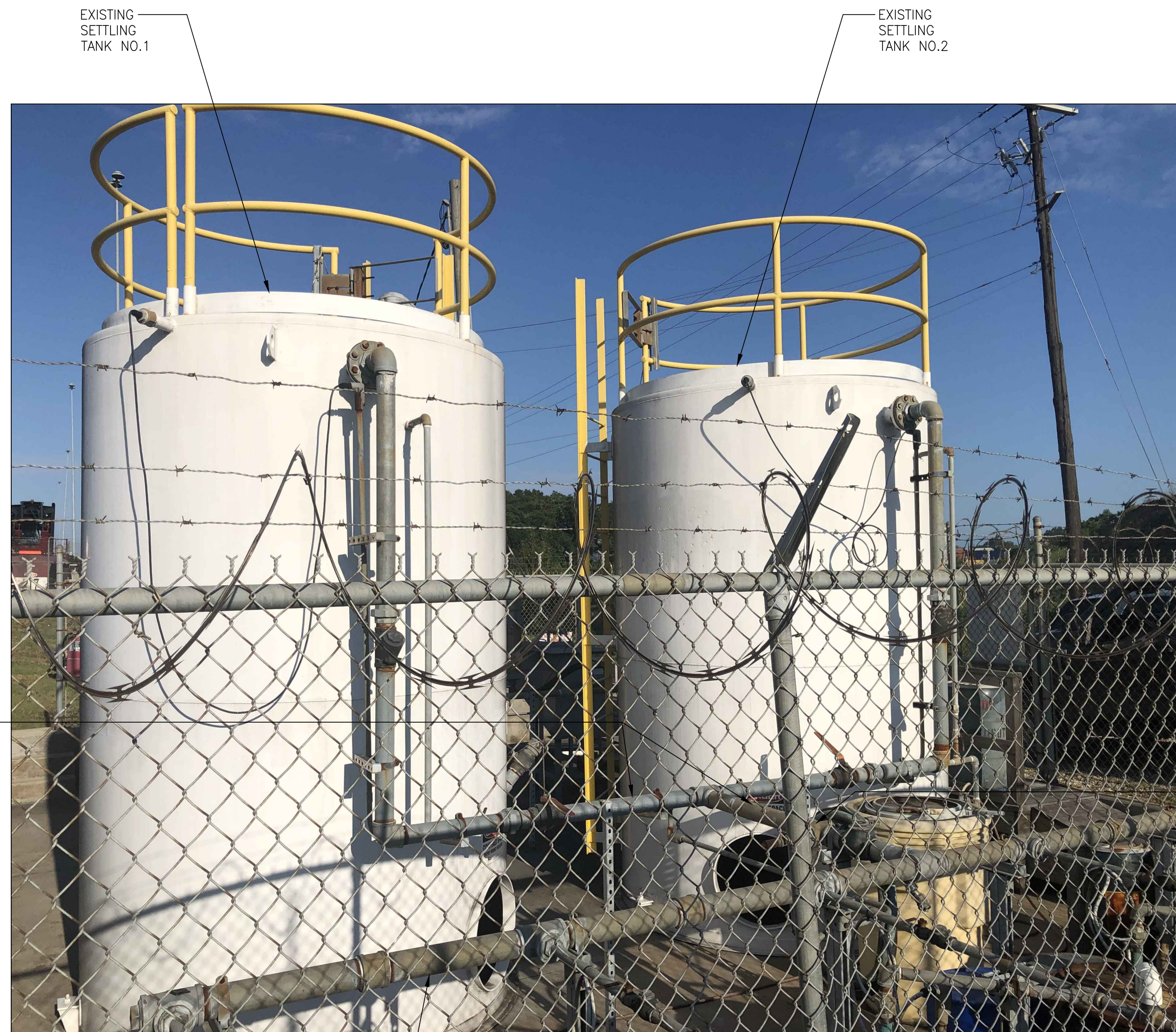
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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/24/23 SCALE: NONE

APMT PHASE IV YARD EXPANSION  
WASTEWATER TREATMENT SYSTEM  
DRUM SHED-ROOF PANEL STANDARD DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: U10 REV: A



EXISTING SETTLING TANK NO.1

EXISTING SETTLING TANK NO.2

EXISTING 4" GS HEADER PIPING WEST OF 4" GS CROSS TO SETTLEMENT TANKS (TO REMAIN)

EXISTING 4" GS DRUM HEADER PIPING EAST OF 4" GS CROSS (REMOVE, ELIMINATED FROM PROCESS AT NEW LOCATION)



EXISTING 4" GS DRUM HEADER PIPING EAST OF 4" GS CROSS (REMOVE, ELIMINATED FROM PROCESS AT NEW LOCATION)

EXISTING 4" GS CROSS (REMOVE, ELIMINATED FROM PROCESS AT NEW LOCATION)

EXISTING 4" GS HEADER PIPING AT SETTLEMENT TANKS WEST OF 4" GS CROSS (TO REMAIN, SHORTEN AND THREAD PIPE IN THIS AREA AS REQUIRED FOR SAFE WORKING CLEARANCES BETWEEN PORTABLE PUMP SINGLE HOSE CONNECTION & DRUMS)

EXISTING 1" GS RECOVERY WELL PIPING BRANCHES TO DRUMS & DRUM HEADER EAST OF EXISTING 4" GS CROSS (REMOVE TO NEAREST JOINT BELOW GRADE & PLUG AS REQUIRED TYPICAL 6-PLACES) THIS PIPING HAS BEEN ELIMINATED FROM PROCESS AT NEW WASTEWATER TREATMENT SYSTEM LOCATION

EXISTING 4" GS CROSS (REMOVE, ELIMINATED FROM PROCESS AT NEW LOCATION)

EXISTING PORTABLE PUMP HOSE CONNECTION STATION NORTH PIPING BRANCH (RE-USE) 1" CAM & GROOVE SOCKET D-COUPLER, 1" CLOSE GS NIPPLE, 1" BALL VALVE, 1" CLOSE GS NIPPLE AND 4"x1" GS CONCENTRIC REDUCER (REMOVE FROM EXISTING 4"x1" NIPPLE AT 4" GS CROSS & RELOCATE TO END OF EXISTING 4" GS HEADER PIPE TO SETTLEMENT TANKS.

FIELD RELOCATE EXISTING 4" GS SETTLING TANK HEADER PIPE SUPPORT TO THIS AREA APPROX. 1'-0" FROM END OF REMAINING 4" GS HEADER PIPE TO SETTLEMENT TANKS. MODIFY AND CONNECT SUPPORT AT PIPE & ANCHOR BASE TO CONCRETE FLOOR AS REQUIRED TO MATCH EXISTING.

**ITEM 1 - VIEW LOOKING WEST @ EXISTING SETTLING TANKS & HEADERS**  
NTS (SEE WASTEWATER TREATMENT SYSTEM RELOCATION NOTES ON DWG. U1)

**ITEM 2 - VIEW LOOKING EAST @ EXISTING 55 GALLON DRUMS & HEADERS**  
NTS (SEE WASTEWATER TREATMENT SYSTEM RELOCATION NOTES ON DWG. U1)



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
WASTEWATER TREATMENT SYSTEM  
PIPING MODIFICATIONS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: U11

REV: A

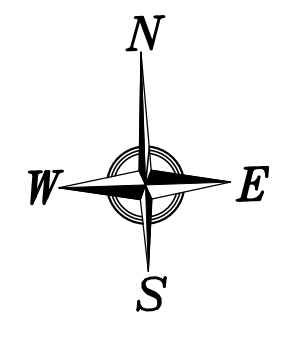


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DRAWN: RST CK'D: MED APPD: RSG DATE: 04/24/23 SCALE: NONE

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	MED	RSG	04/05/24

NOTES
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.



**ABBREVIATIONS**

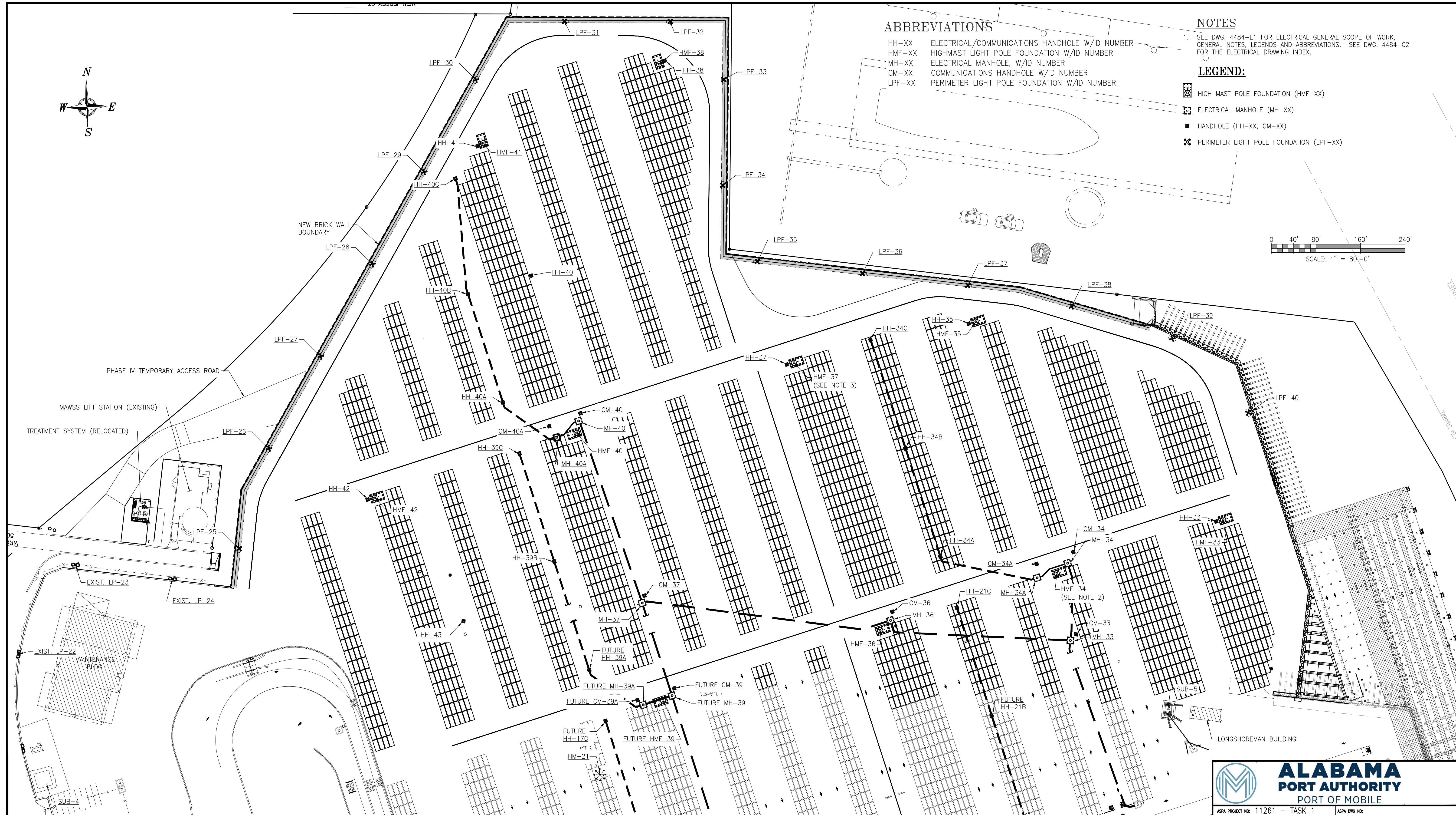
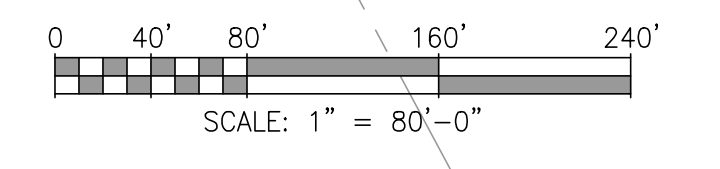
- HH-XX ELECTRICAL/COMMUNICATIONS HANDHOLE W/ID NUMBER
- HMF-XX HIGHMAST LIGHT POLE FOUNDATION W/ID NUMBER
- MH-XX ELECTRICAL MANHOLE W/ID NUMBER
- CM-XX COMMUNICATIONS HANDHOLE W/ID NUMBER
- LPF-XX PERIMETER LIGHT POLE FOUNDATION W/ID NUMBER

**NOTES**

1. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.

**LEGEND:**

- HIGH MAST POLE FOUNDATION (HMF-XX)
- ELECTRICAL MANHOLE (MH-XX)
- HANDHOLE (HH-XX, CM-XX)
- PERIMETER LIGHT POLE FOUNDATION (LPF-XX)

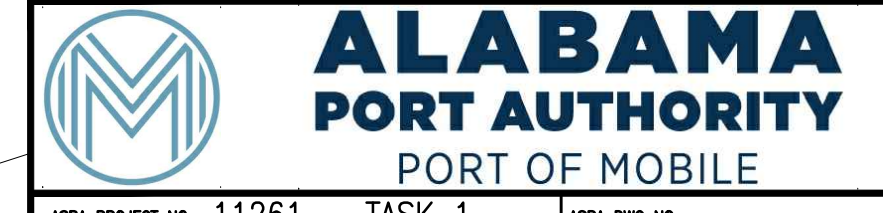


**NOTES**

1. SEE DRAWING G2 FOR PROJECT DRAWING INDEX AND G3 FOR PROJECT GENERAL NOTES.
2. EXISTING MAIN WHARF PILING MAY NEED TO BE PULLED IN THIS AREA TO INSTALL NEW HM-34 PILING (FIELD VERIFY).
3. A SECTION OF THE EXISTING WEST BARGE WHARF BULKHEAD WALL 7 TIE RODS MAY NEED TO BE REMOVED TO INSTALL NEW HM-37 PILING (FIELD VERIFY).



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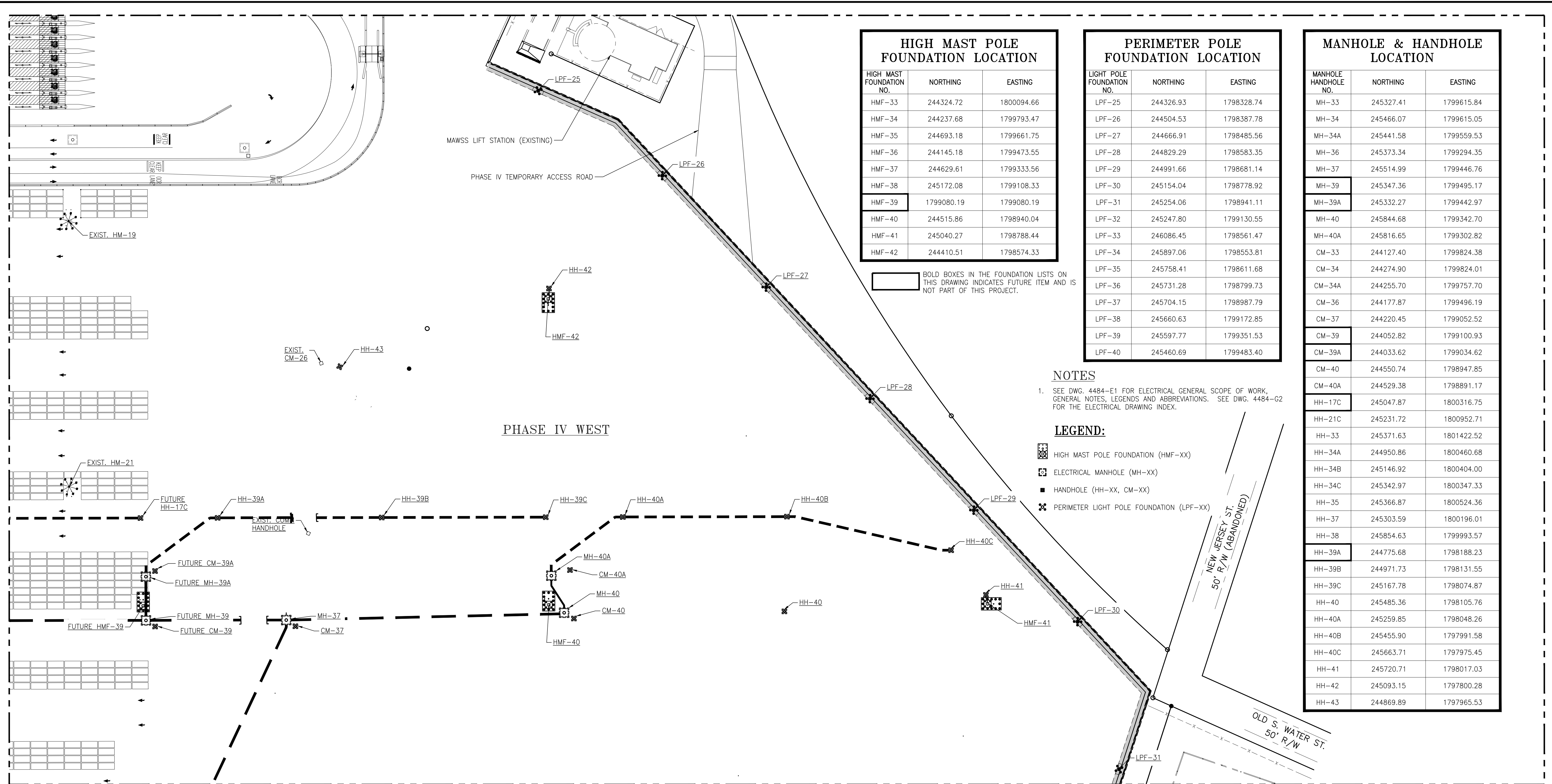


ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
HIGH MAST POLE, PERIMETER POLE, MANHOLE  
AND HANDHOLE FOUNDATION - OVERALL PLAN

FOR: ALABAMA PORT AUTHORITY

NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN:	CK'D:	APPD:	DATE:	SCALE:
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24	WMB	MED	RSG	08/01/23	AS NOTED



### HIGH MAST POLE FOUNDATION LOCATION

HIGH MAST FOUNDATION NO.	NORTHING	EASTING
HMF-33	244324.72	1800094.66
HMF-34	244237.68	1799793.47
HMF-35	244693.18	1799661.75
HMF-36	244145.18	1799473.55
HMF-37	244629.61	1799333.56
HMF-38	245172.08	1799108.33
HMF-39	1799080.19	1799080.19
HMF-40	244515.86	1798940.04
HMF-41	245040.27	1798788.44
HMF-42	244410.51	1798574.33

### PERIMETER POLE FOUNDATION LOCATION

LIGHT POLE FOUNDATION NO.	NORTHING	EASTING
LPF-25	244326.93	1798328.74
LPF-26	244504.53	1798387.78
LPF-27	244666.91	1798485.56
LPF-28	244829.29	1798583.35
LPF-29	244991.66	1798681.14
LPF-30	245154.04	1798778.92
LPF-31	245254.06	1798941.11
LPF-32	245247.80	1799130.55
LPF-33	246086.45	1798561.47
LPF-34	245897.06	1798553.81
LPF-35	245758.41	1798611.68
LPF-36	245731.28	1798799.73
LPF-37	245704.15	1798987.79
LPF-38	245660.63	1799172.85
LPF-39	245597.77	1799351.53
LPF-40	245460.69	1799483.40

### MANHOLE & HANDHOLE LOCATION

MANHOLE HANDHOLE NO.	NORTHING	EASTING
MH-33	245327.41	1799615.84
MH-34	245466.07	1799615.05
MH-34A	245441.58	1799559.53
MH-36	245373.34	1799294.35
MH-37	245514.99	1799446.76
MH-39	245347.36	1799495.17
MH-39A	245332.27	1799442.97
MH-40	245844.68	1799342.70
MH-40A	245816.65	1799302.82
CM-33	244127.40	1799824.38
CM-34	244274.90	1799824.01
CM-34A	244255.70	1799757.70
CM-36	244177.87	1799496.19
CM-37	244220.45	1799052.52
CM-39	244052.82	1799100.93
CM-39A	244033.62	1799034.62
CM-40	244550.74	1798947.85
CM-40A	244529.38	1798891.17
HH-17C	245047.87	1800316.75
HH-21C	245231.72	1800952.71
HH-33	245371.63	1801422.52
HH-34A	244950.86	1800460.68
HH-34B	245146.92	1800404.00
HH-34C	245342.97	1800347.33
HH-35	245366.87	1800524.36
HH-37	245303.59	1800196.01
HH-38	245854.63	1799993.57
HH-39A	244775.68	1798188.23
HH-39B	244971.73	1798131.55
HH-39C	245167.78	1798074.87
HH-40	245485.36	1798105.76
HH-40A	245259.85	1798048.26
HH-40B	245455.90	1797991.58
HH-40C	245663.71	1797975.45
HH-41	245720.71	1798017.03
HH-42	245093.15	1797800.28
HH-43	244869.89	1797965.53

BOLD BOXES IN THE FOUNDATION LISTS ON THIS DRAWING INDICATES FUTURE ITEM AND IS NOT PART OF THIS PROJECT.

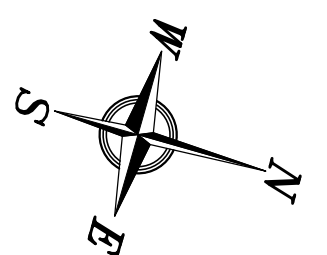
#### NOTES

- SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.

#### LEGEND:

- HIGH MAST POLE FOUNDATION (HMF-XX)
- ELECTRICAL MANHOLE (MH-XX)
- HANDHOLE (HH-XX, CM-XX)
- PERIMETER LIGHT POLE FOUNDATION (LPF-XX)

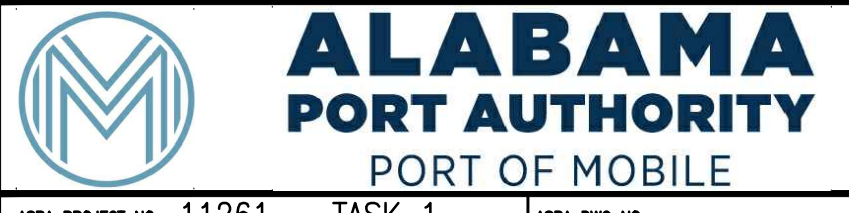
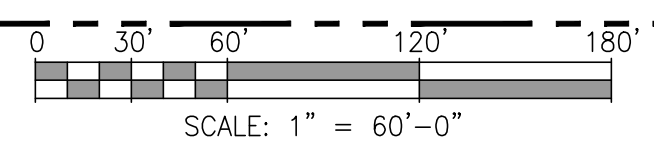
SEE DRAWING S3 FOR CONTINUATION



**PARTIAL SITE PLAN**  
1"=60'

#### ABBREVIATIONS

- HH-XX ELECTRICAL/COMMUNICATIONS HANDHOLE W/ID NUMBER
- HMF-XX HIGHMAST LIGHT POLE FOUNDATION W/ID NUMBER
- MH-XX ELECTRICAL MANHOLE, W/ID NUMBER
- CM-XX COMMUNICATIONS HANDHOLE W/ID NUMBER
- LPF-XX PERIMETER LIGHT POLE FOUNDATION W/ID NUMBER



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES	
1. SEE DRAWING G2 FOR PROJECT DRAWING INDEX AND G3 FOR PROJECT GENERAL NOTES.	

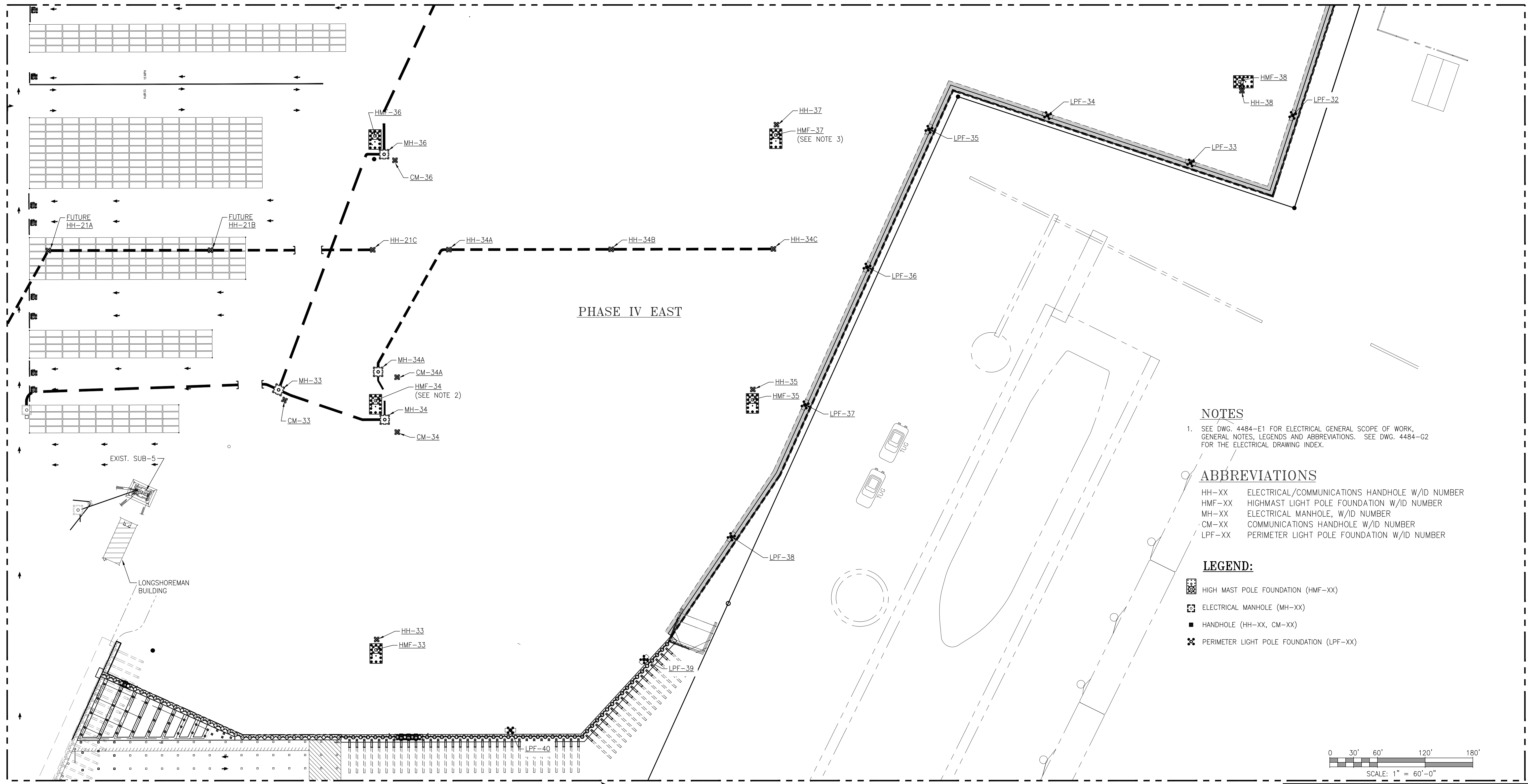
NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	WMB	MED	RSG

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APMT PHASE IV YARD EXPANSION	
HIGH MAST POLE, PERIMETER POLE, MANHOLE AND HANDHOLE FOUNDATION - PARTIAL PLAN	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: S2
DATE: 08/01/23	SCALE: AS NOTED
REVISION	REV: A

SEE DRAWING S2 FOR CONTINUATION



**NOTES**

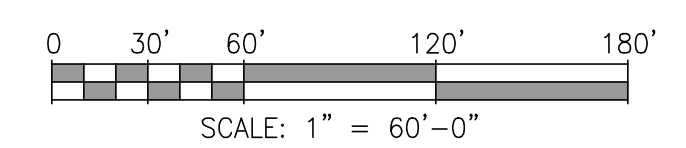
- SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.

**ABBREVIATIONS**

- HH-XX ELECTRICAL/COMMUNICATIONS HANDHOLE W/ID NUMBER
- HMF-XX HIGHMAST LIGHT POLE FOUNDATION W/ID NUMBER
- MH-XX ELECTRICAL MANHOLE, W/ID NUMBER
- CM-XX COMMUNICATIONS HANDHOLE W/ID NUMBER
- LPF-XX PERIMETER LIGHT POLE FOUNDATION W/ID NUMBER

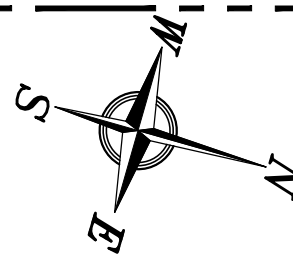
**LEGEND:**

- HIGH MAST POLE FOUNDATION (HMF-XX)
- ELECTRICAL MANHOLE (MH-XX)
- HANDHOLE (HH-XX, CM-XX)
- PERIMETER LIGHT POLE FOUNDATION (LPF-XX)



**PARTIAL SITE PLAN**

1"=60'



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

- NOTES**
- SEE DRAWING G2 FOR PROJECT DRAWING INDEX AND G3 FOR PROJECT GENERAL NOTES.
  - EXISTING MAIN WHARF PILING MAY NEED TO BE PULLED IN THIS AREA TO INSTALL NEW HM-34 PILING (FIELD VERIFY).
  - A SECTION OF THE EXISTING WEST BARGE WHARF BULKHEAD WALL 7 TIE RODS MAY NEED TO BE REMOVED TO INSTALL NEW HM-37 PILING (FIELD VERIFY).

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

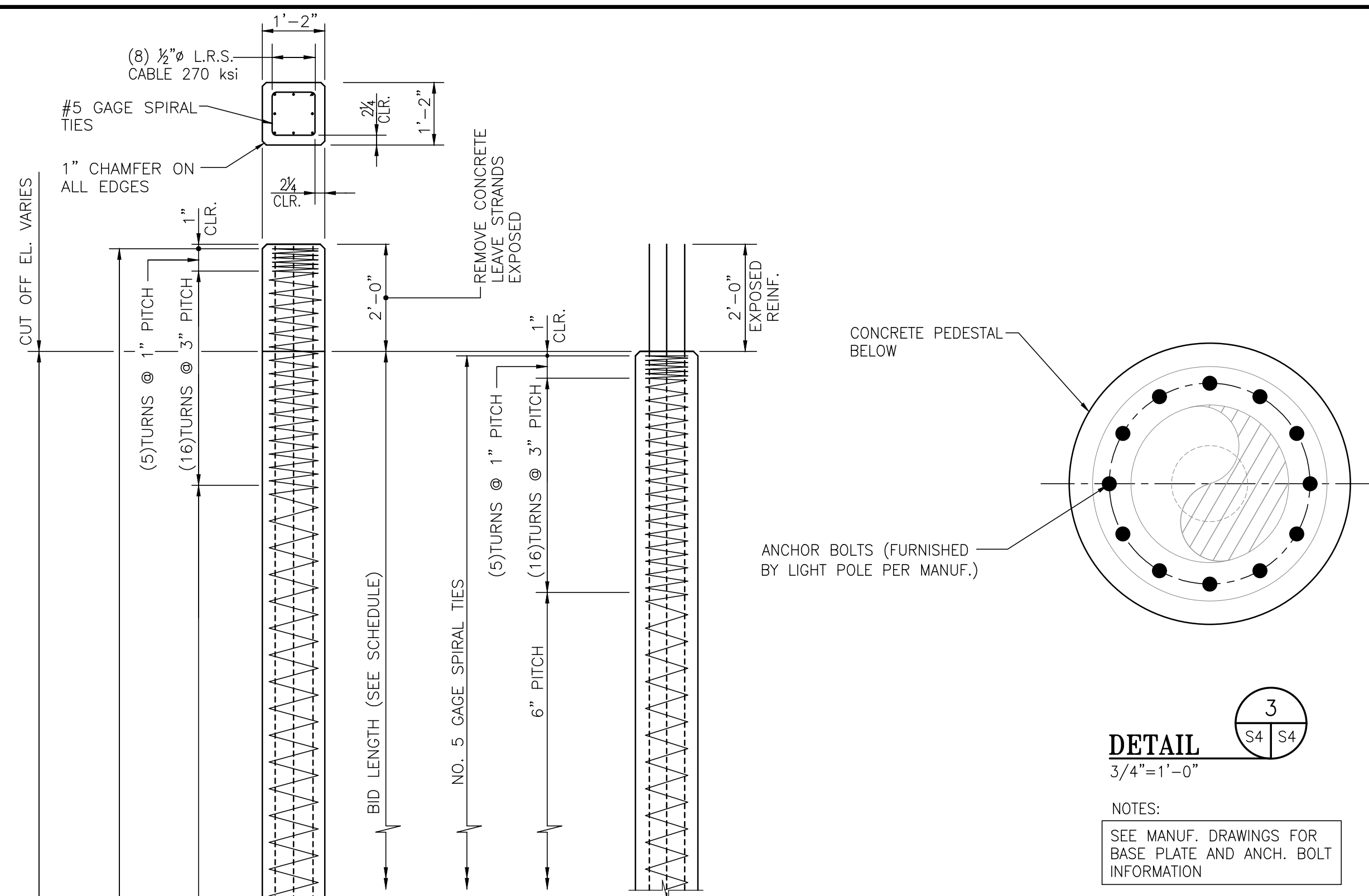
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**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

APMT PHASE IV YARD EXPANSION  
HIGH MAST POLE, PERIMETER POLE, MANHOLE  
AND HANDHOLE FOUNDATION - PARTIAL PLAN

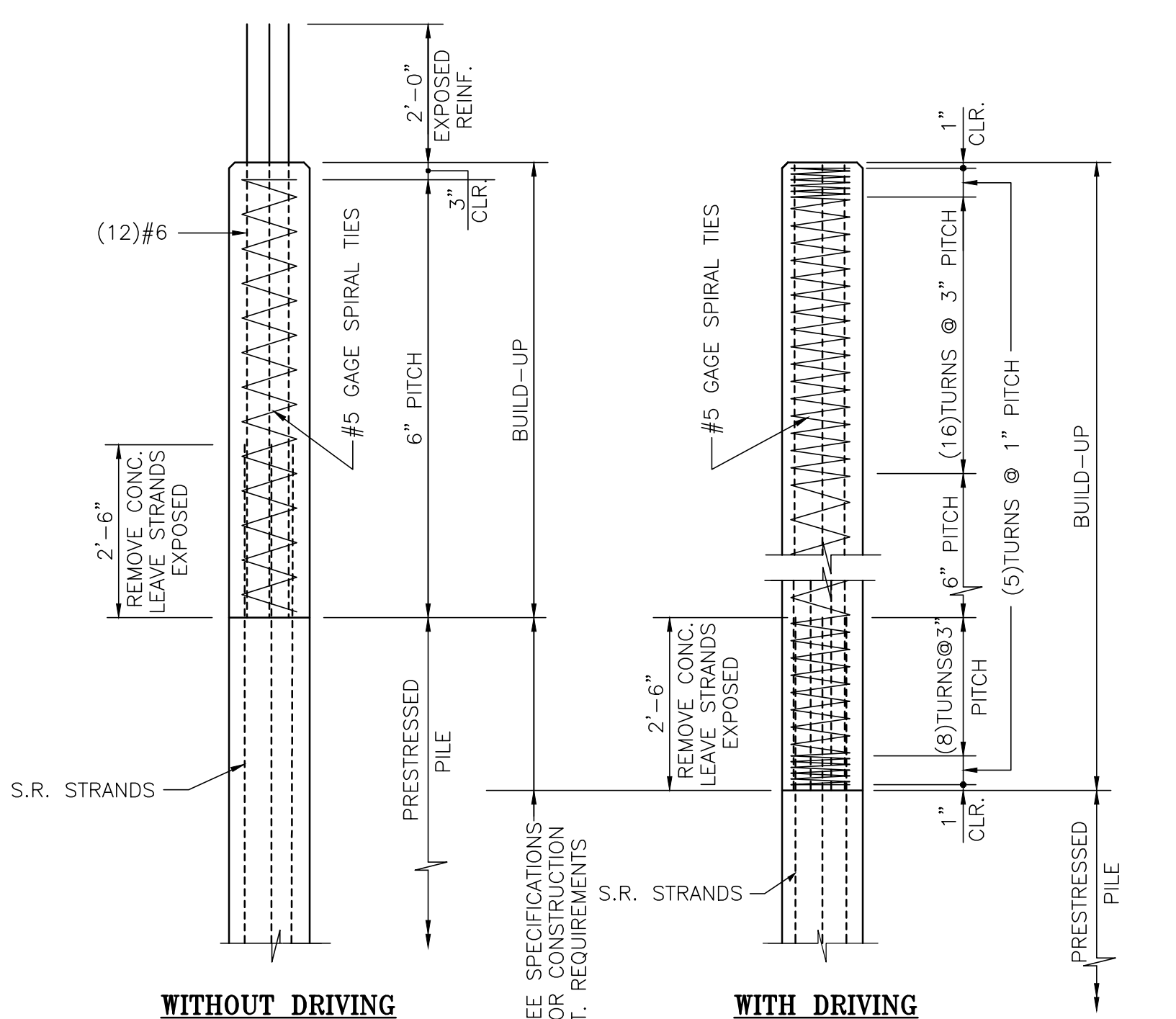
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: S3 REV: A

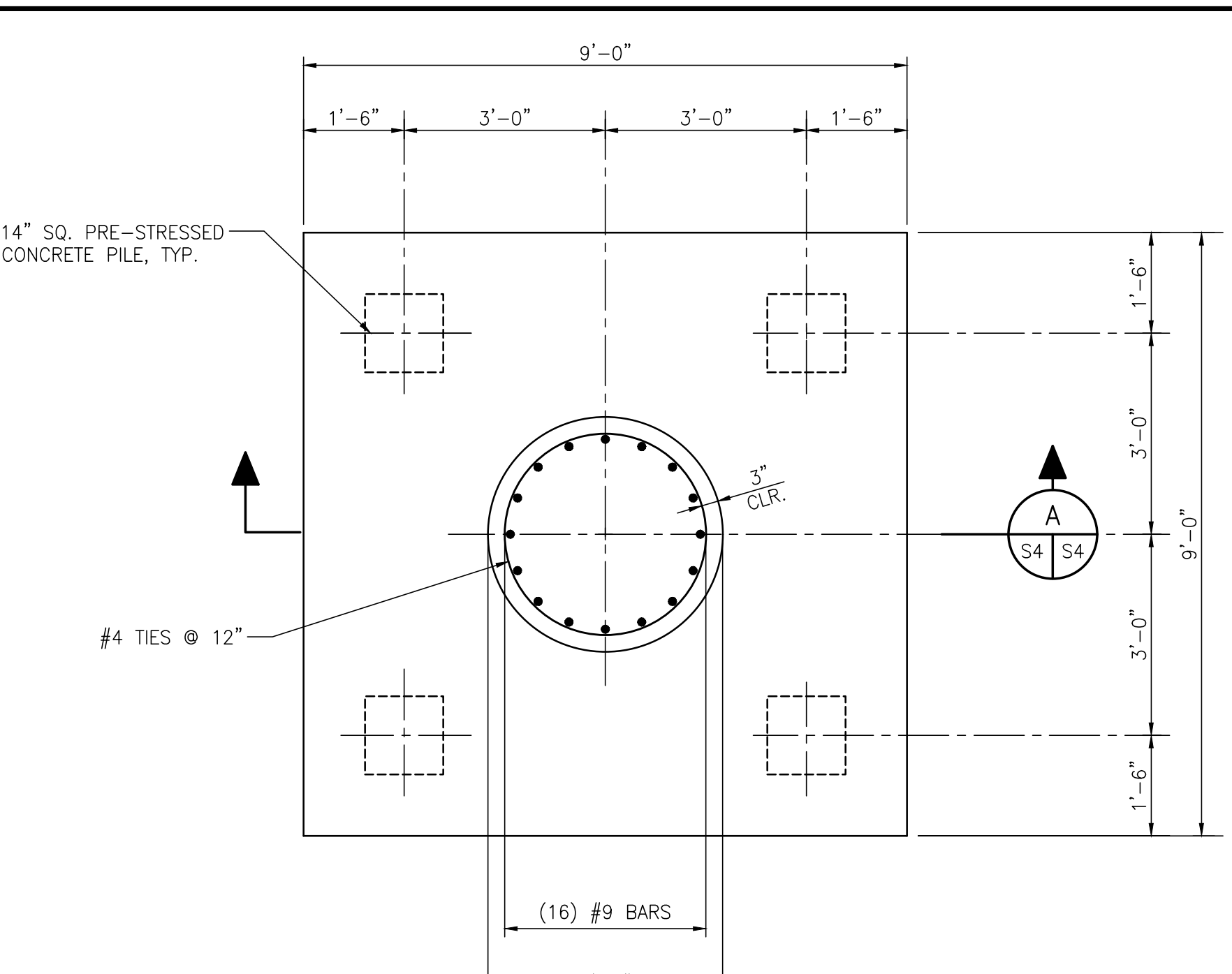


NOTE:  
ALTERNATE DETAIL SHOWS PILE CAST WITH STRANDS EXPOSED TO ELIMINATE REMOVING CONCRETE AFTER PILE IS DRIVEN THIS REQUIRES A SPACER TO PROTECT STRANDS DURING DRIVING.

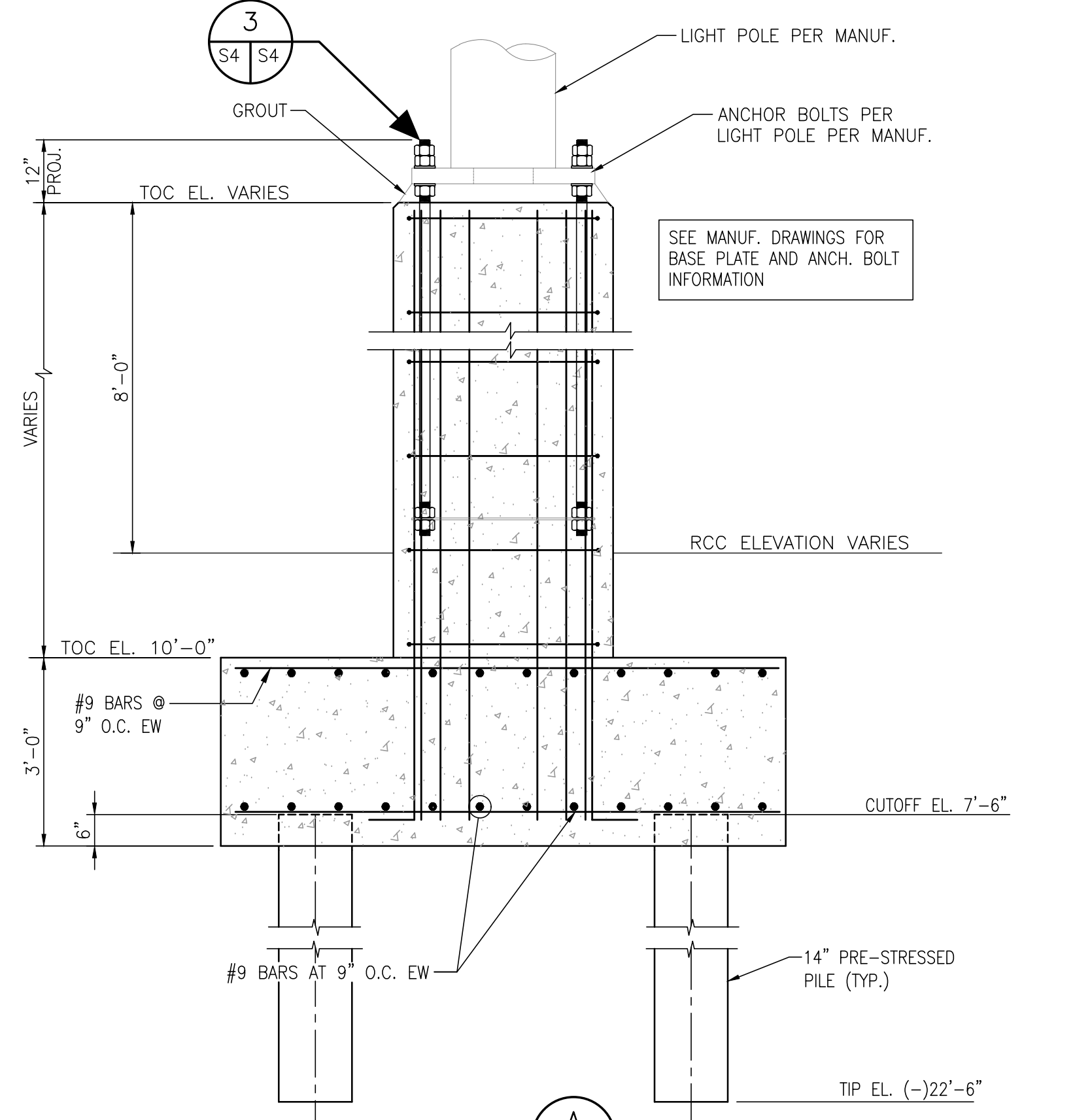
**ALTERNATE END DETAIL**  
1/2" = 1'-0"



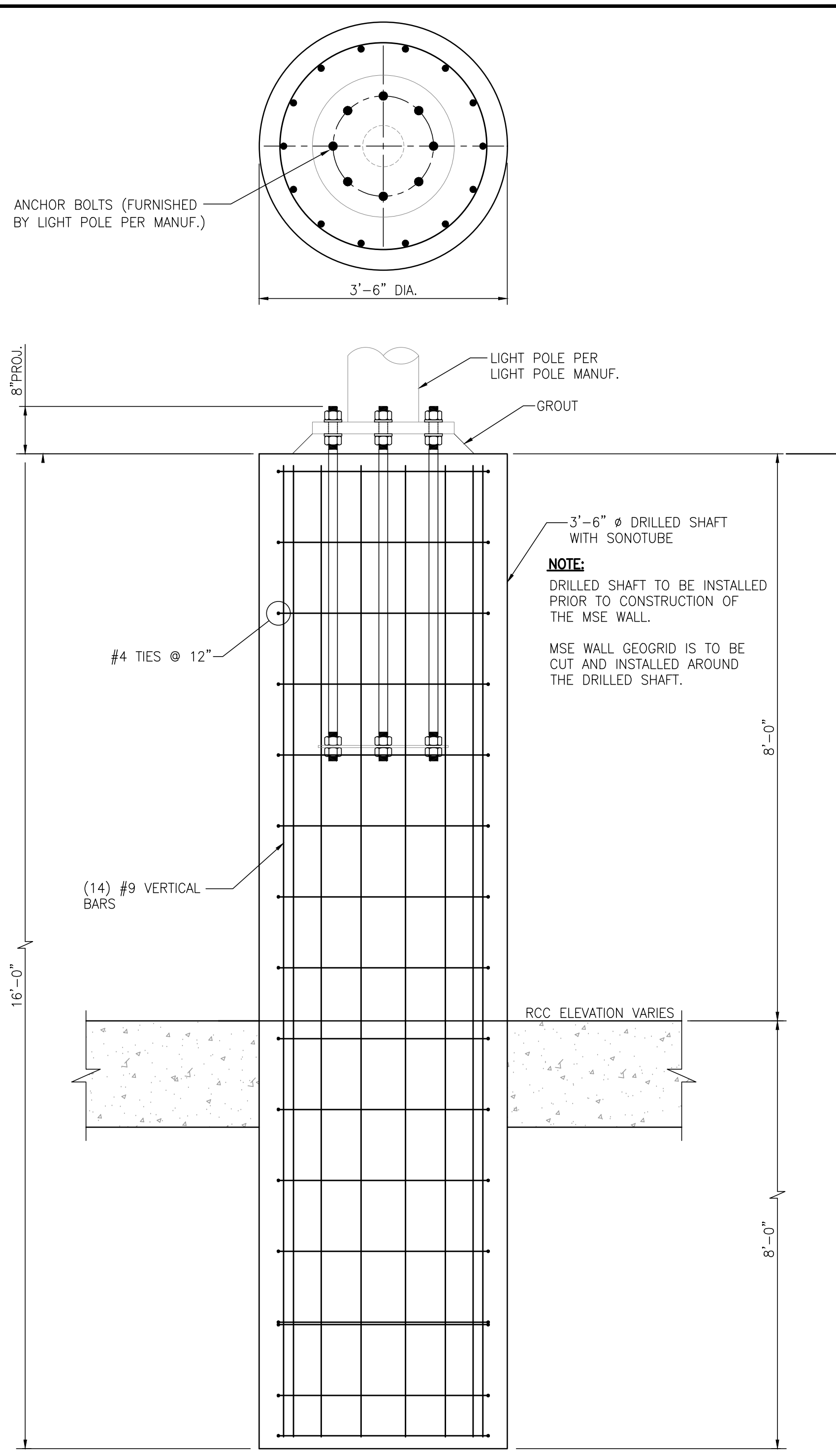
**14\"/>**



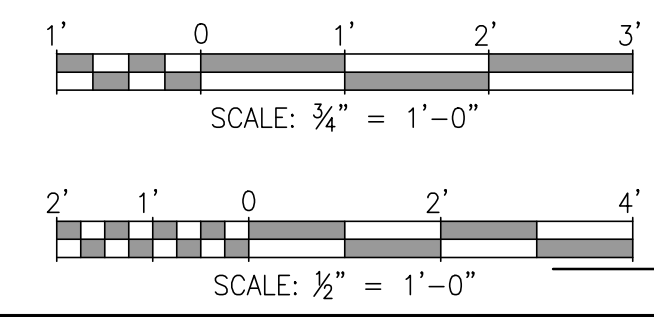
**DETAIL 1**  
1/2" = 1'-0" \* S2, S3



**SECTION A**  
1/2" = 1'-0"



**DETAIL 2**  
3/4" = 1'-0" \* S2, S3  
(LP-25 THRU LP-40)



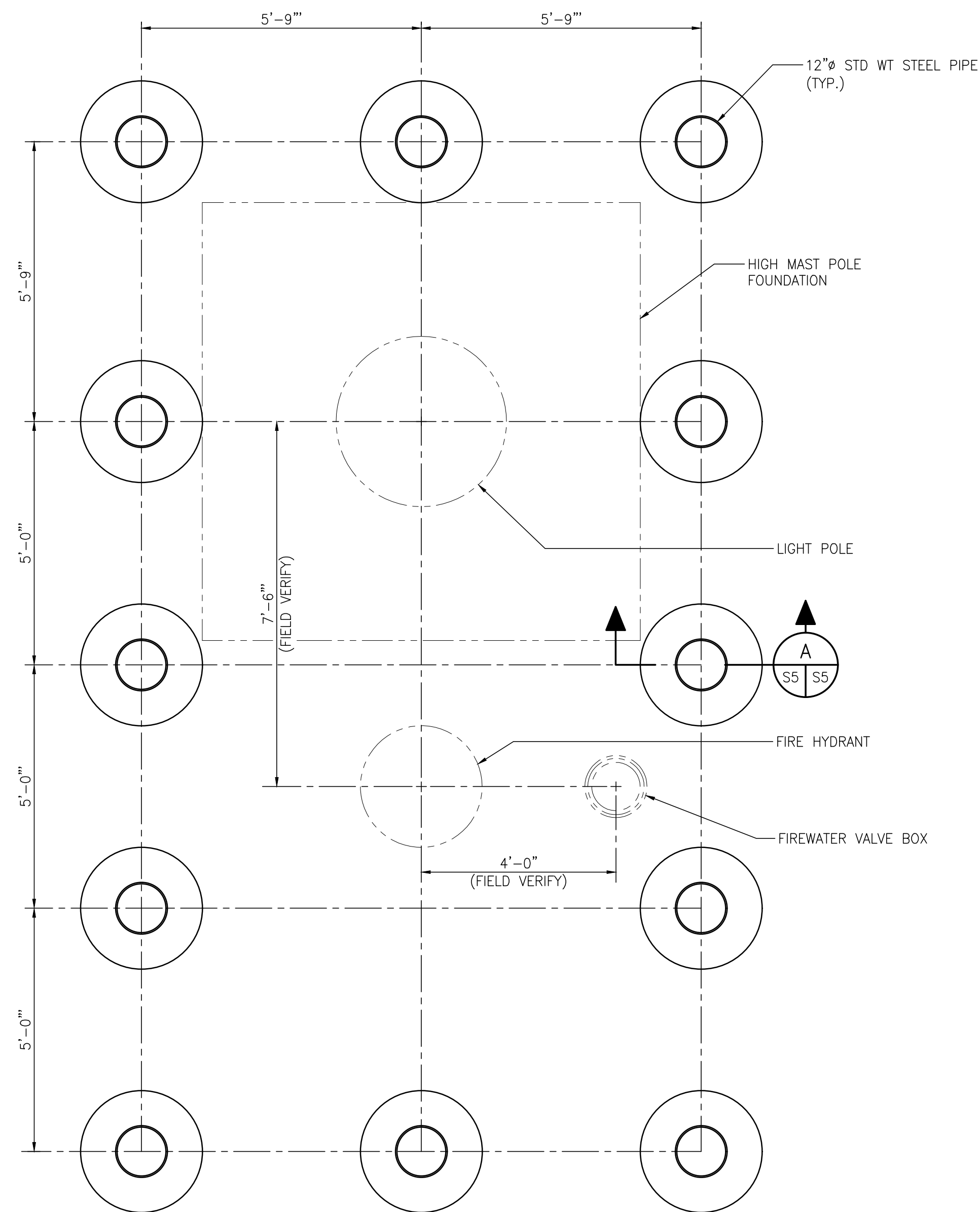
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

**APTIM**  
PORT SERVICES, LLC

ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:  
**APMT PHASE IV YARD EXPANSION**  
**HIGH MAST AND PERIMETER LIGHT FOUNDATIONS**  
**PLANS, SECTIONS AND DETAILS**  
FOR: **ALABAMA PORT AUTHORITY**  
PROJECT NO: **4484** DWG NO: **S4** REV: **A**

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NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: WMB CK'D: MED APPD: RSG DATE: 04/04/22 SCALE: NOTED
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24	

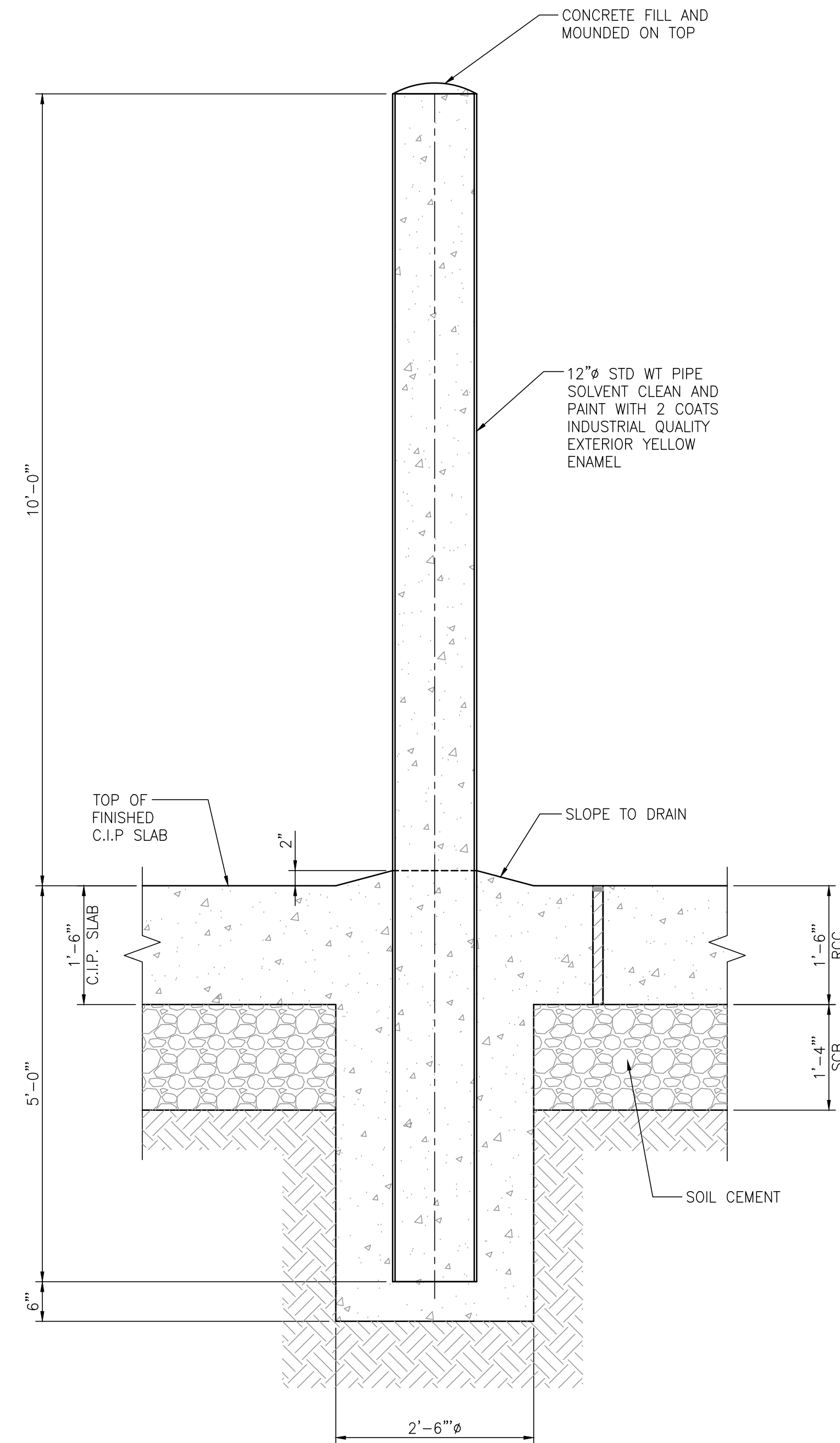




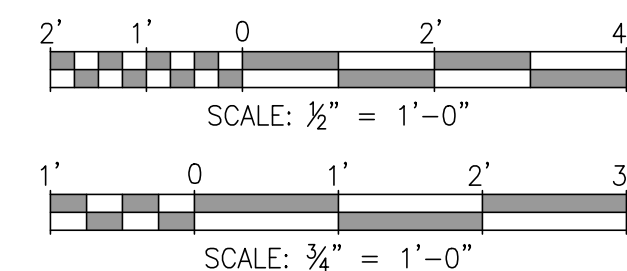
NOTE:  
C.I.P. CONCRETE SLAB  
OMITTED IN THIS PLAN  
FOR CLARITY SEE DWG. P7

**DETAIL**  
1  
\* S5  
1/2"=1'-0" \* S2, S3

**TYPICAL LIGHT POLE / FIRE HYDRANT PARTIAL PLAN FOR YARD**  
1/2"=1'-0" (SEE PLAN FOR ORIENTATION)



**SECTION**  
A  
S5  
3/4"=1'-0"



ASPA PROJECT NO: XXXXX - TASK X ASPA DWG NO:

APMT PHASE IV YARD EXPANSION

HIGH MAST LIGHT POLE BOLLARD DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: S5 REV: A

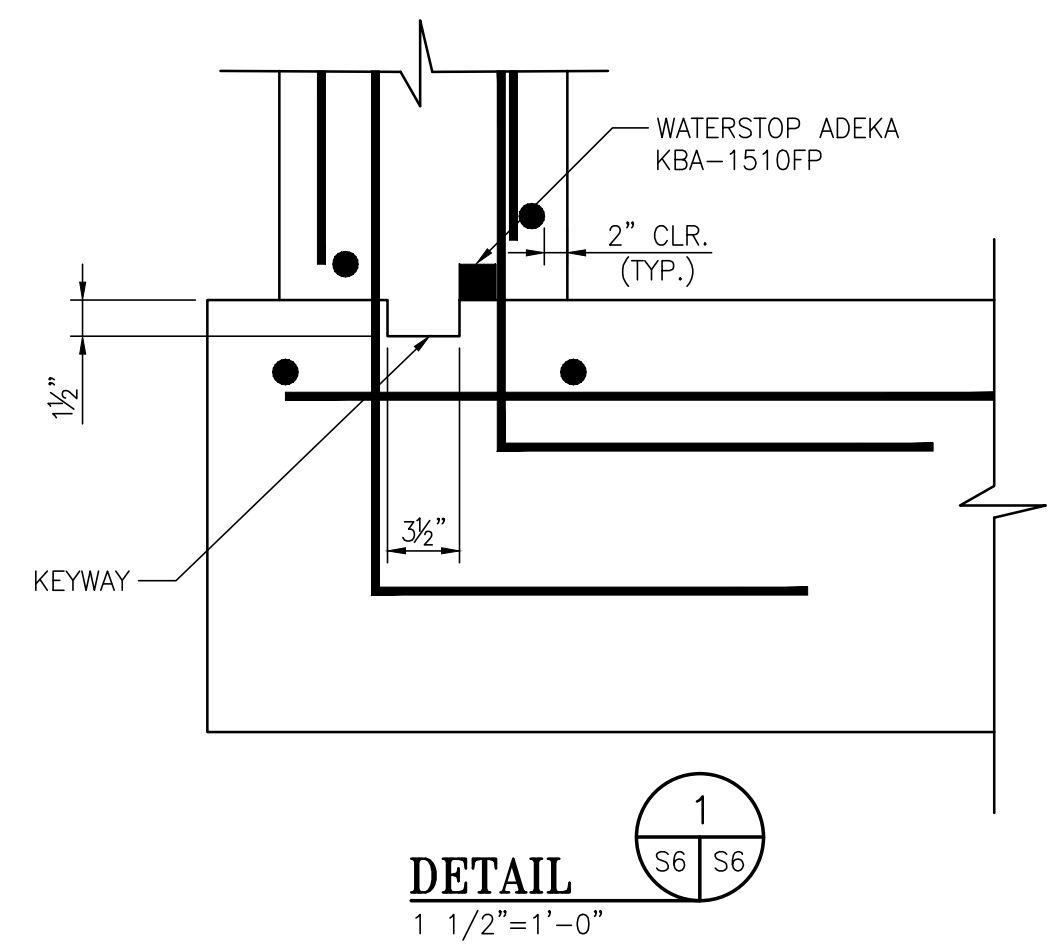
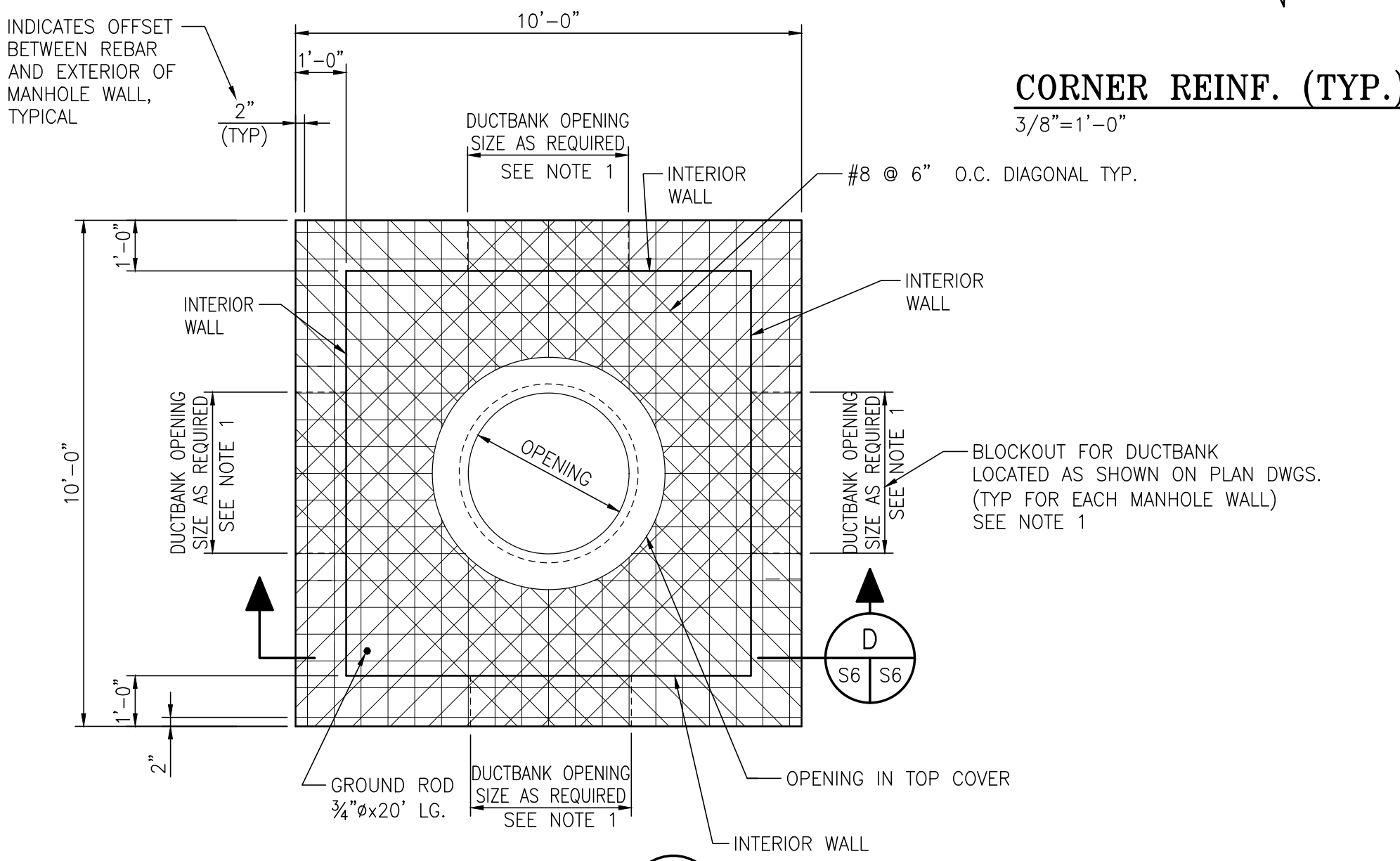
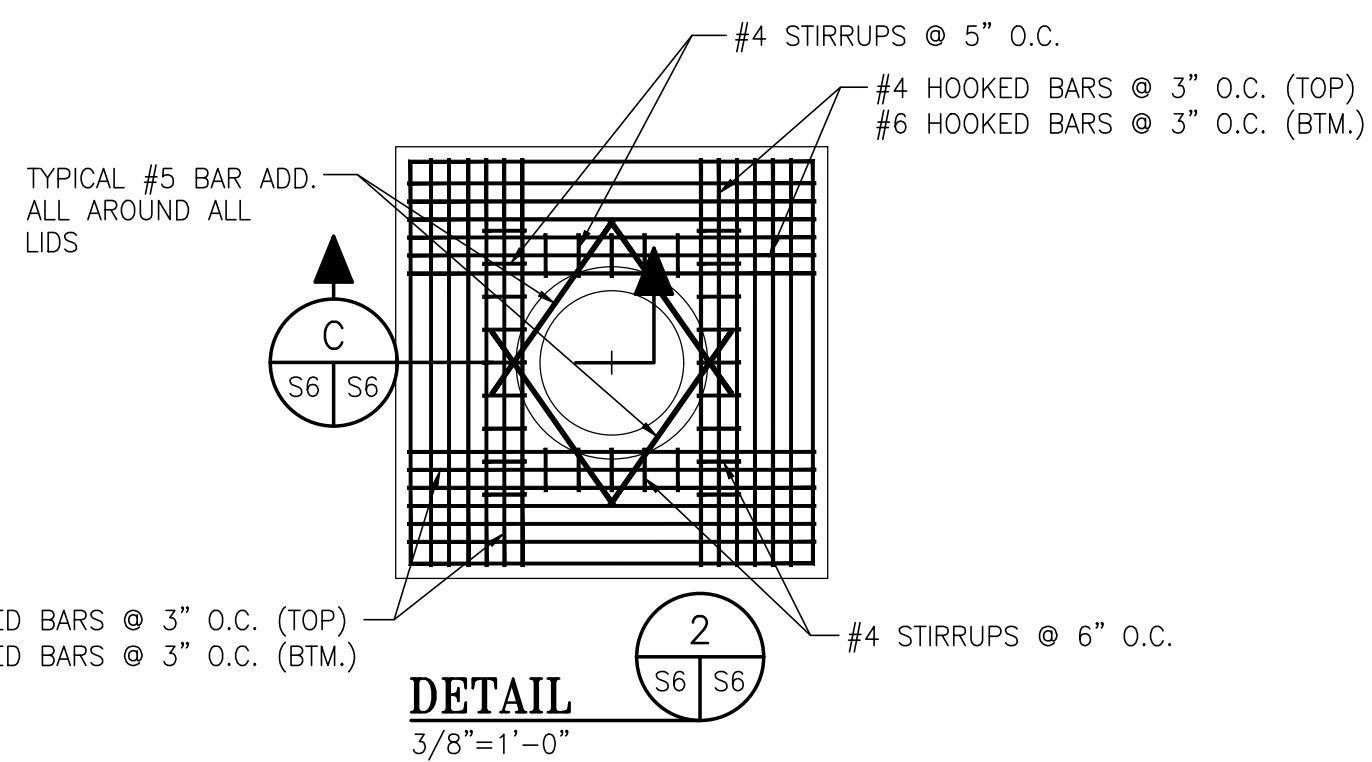
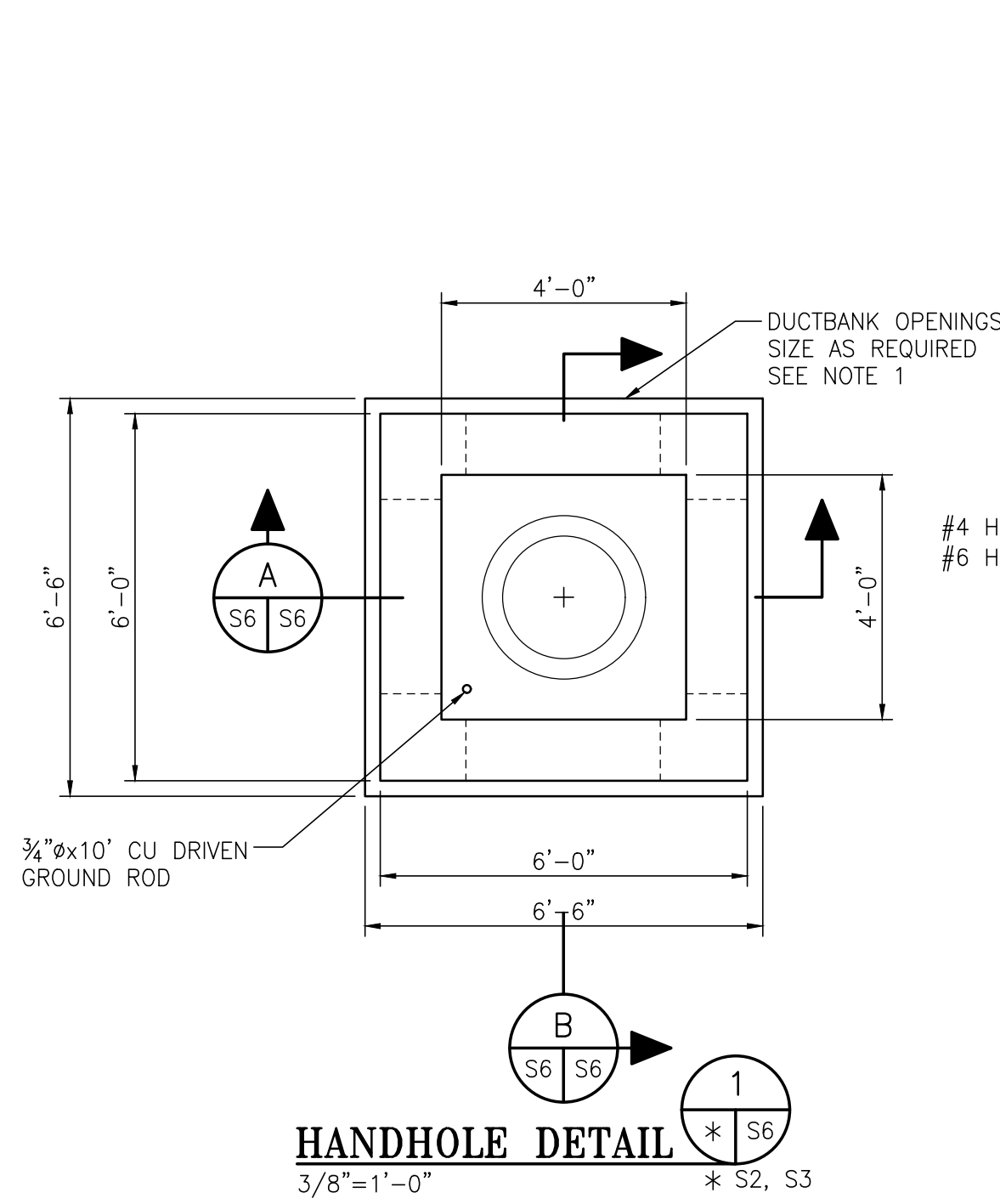
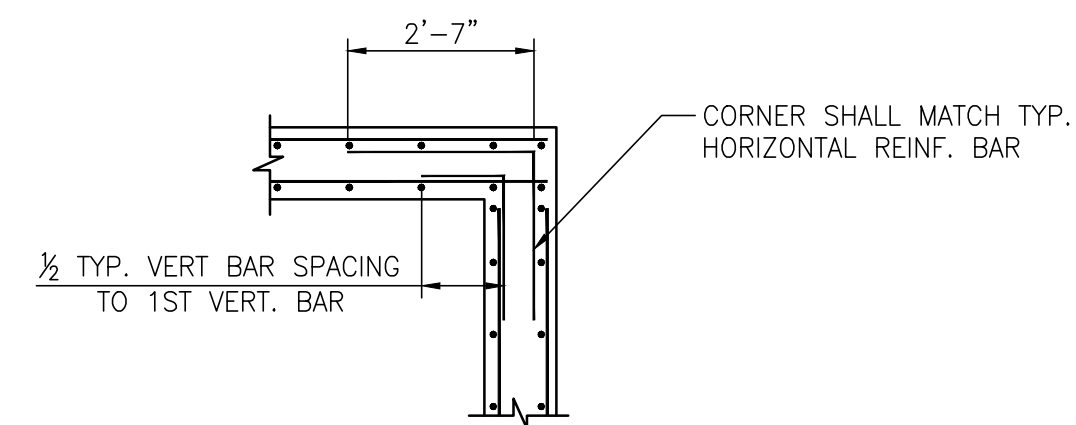


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NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: WMB	CK'D: MED	APPD: RSG	DATE: 04/04/22	SCALE: NOTED
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24					
	REFERENCE DRAWINGS									

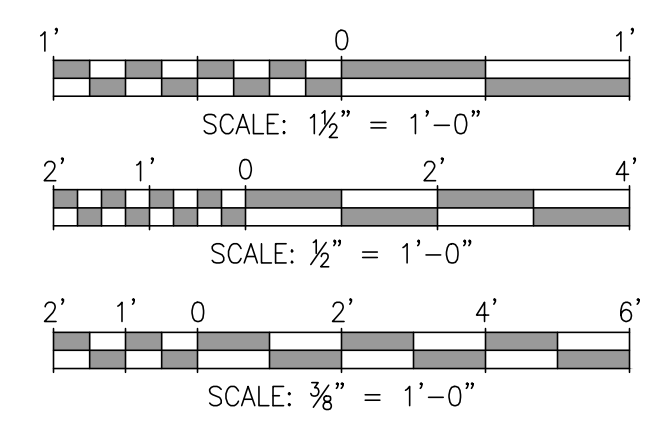
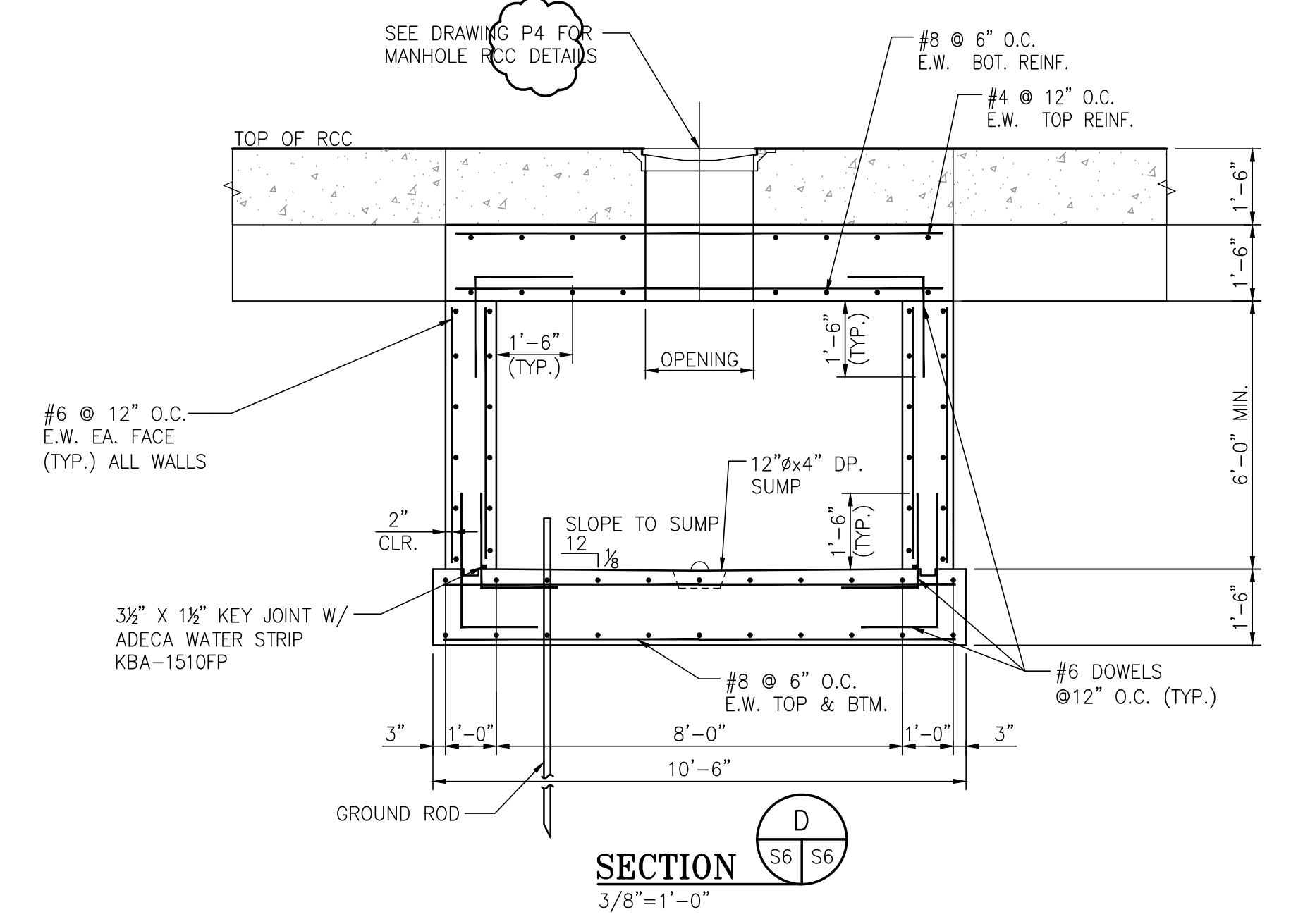
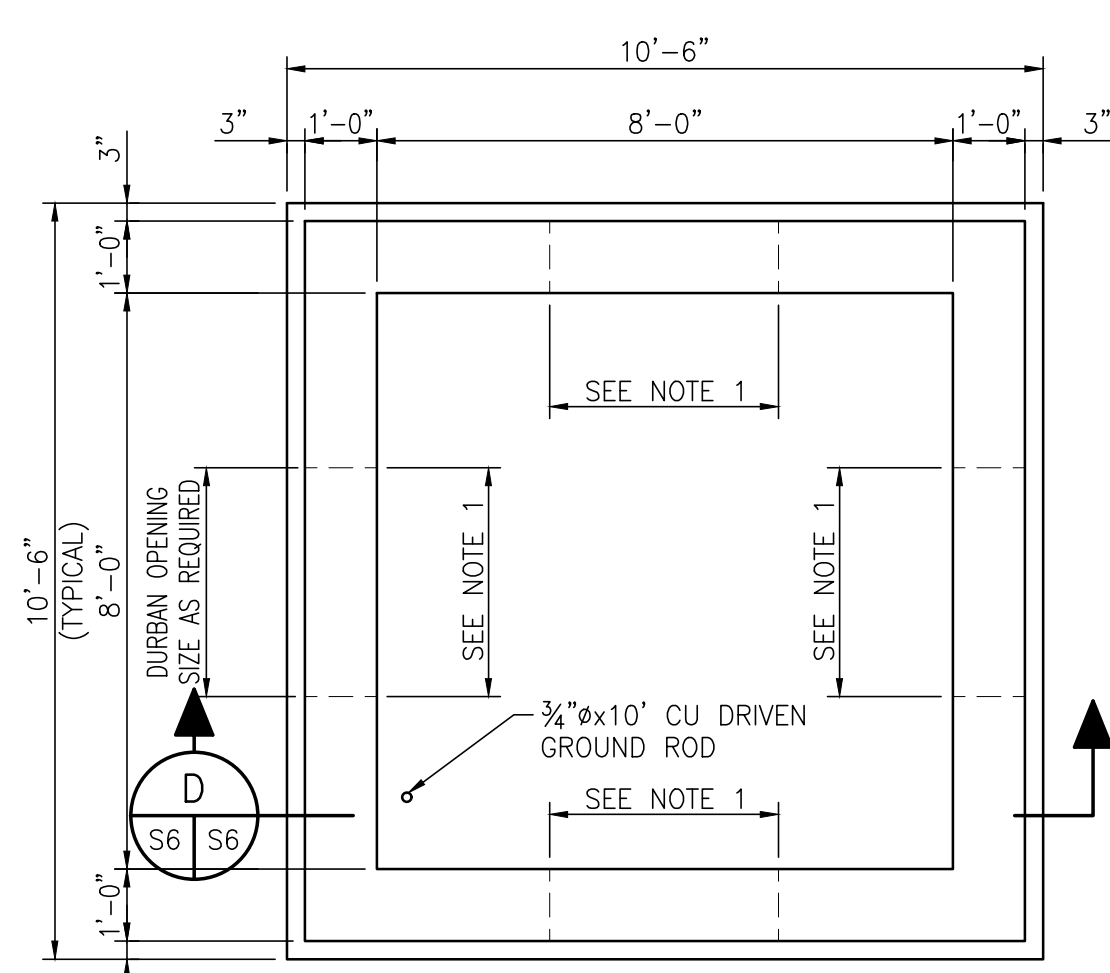
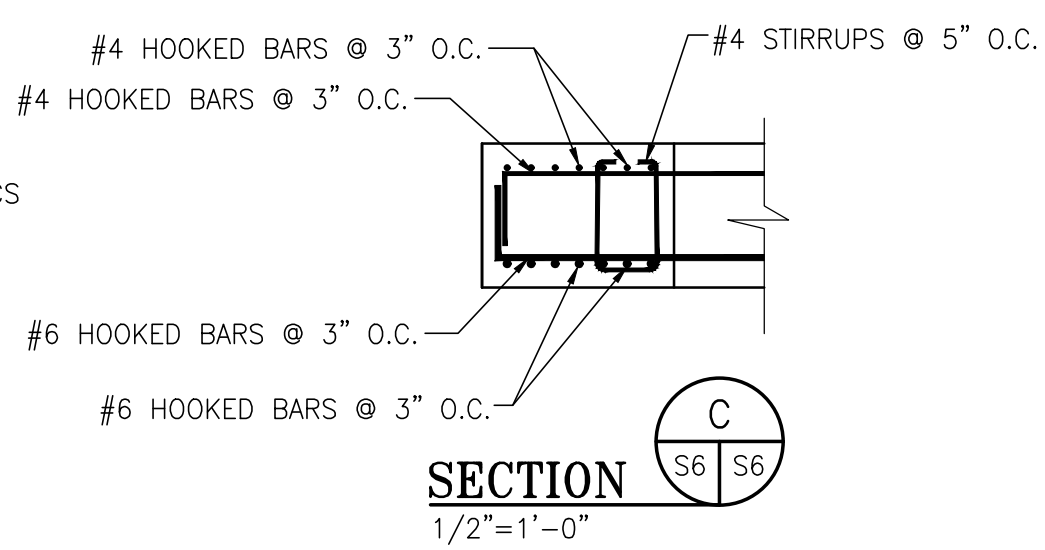
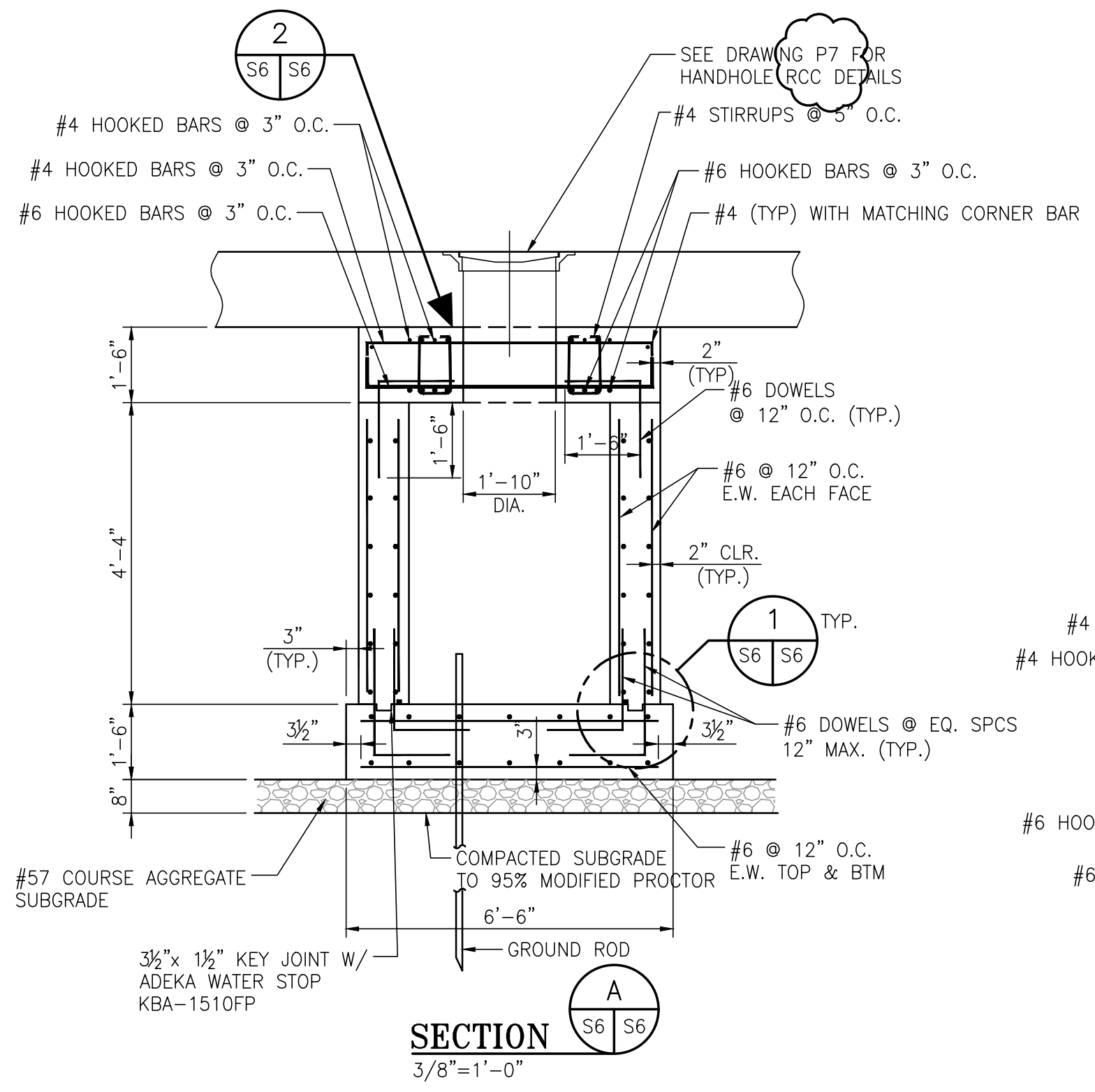
**NOTE:**

1. REFER TO ELECTRICAL DRAWINGS FOR DUCTBANK SIZES, LOCATIONS AND DETAILS.



DETAIL FOR COMMUNICATIONS HANDHOLES: CM33, CM34, CM36, CM37, CM39, CM39A, CM40, CM40A.  
DETAIL FOR HANDHOLES: HH21B, HH21C, HH33, HH34A, HH34B, HH34C, HH35, HH37, HH38, HH39A, HH39B, HH39C, HH40, HH40A, HH40B, HH40C, HH41, HH42, HH43

(DETAIL FOR MANHOLES MH33, MH34, MH34A, MH36, MH37, MH39, MH39A, MH40, & MH40A)



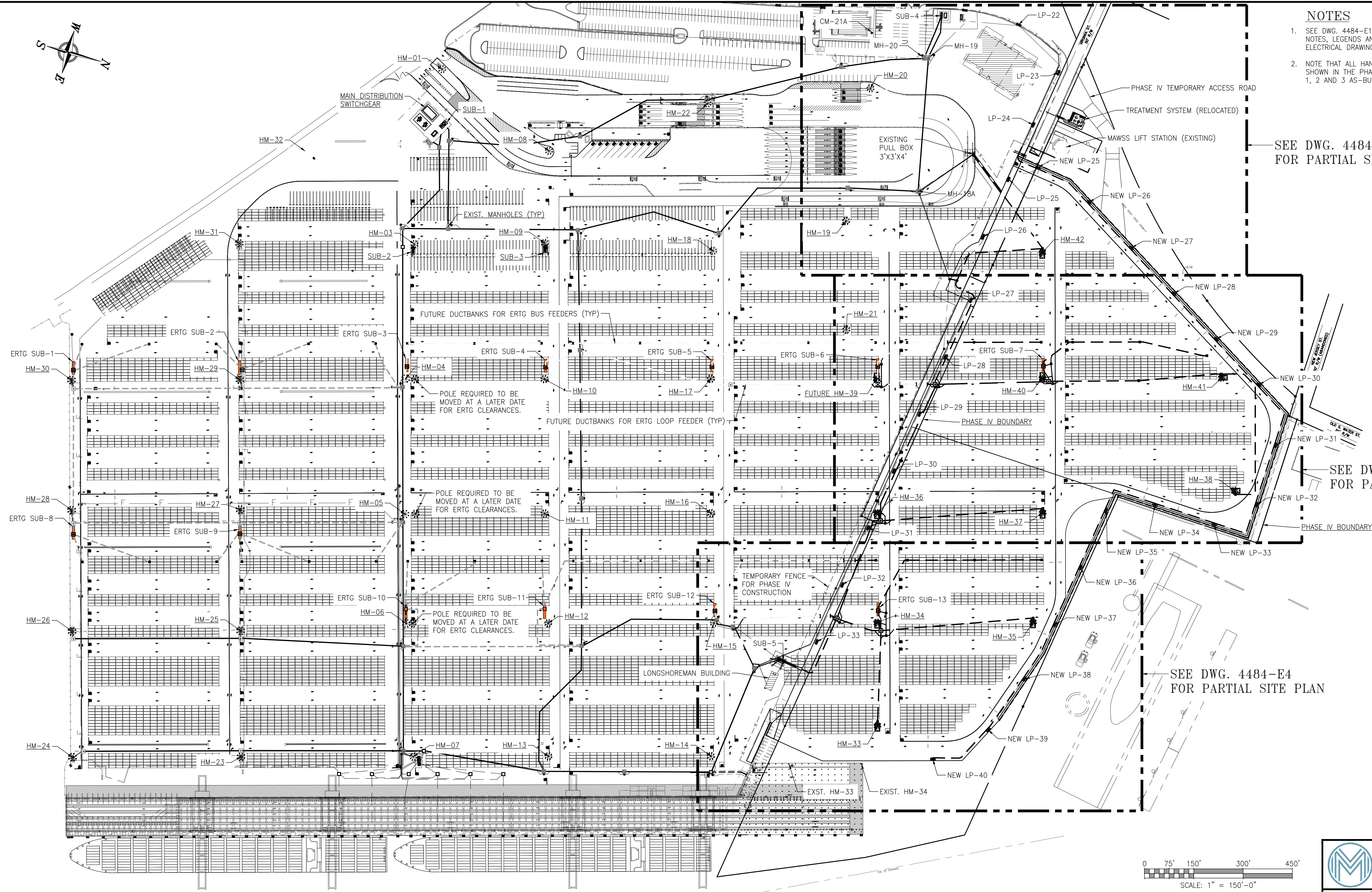
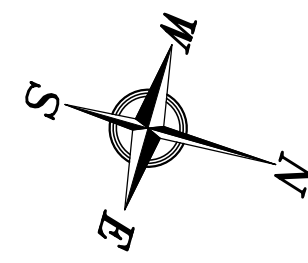
ASPA PROJECT NO: XXXXX - TASK X  
ASPA DWG NO:  
**APMT SLIP FILL & PHASE IV YARD DEVELOPMENT**  
**ELECTRICAL AND COMMUNICATIONS MANHOLE**  
**AND HANDHOLE SECTIONS AND DETAILS**  
FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4484 DWG NO: S6 REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR REVIEW	WMB	MED	RSG	08/25/23
REFERENCE DRAWINGS					





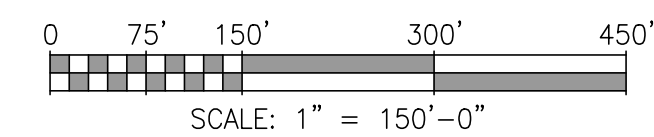
**NOTES**

- SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.
- NOTE THAT ALL HANDHOLES AND COMMUNICATION HANDHOLES HAVE NOT BEEN SHOWN IN THE PHASE 1, 2 AND 3 AREAS ON THIS DRAWING. SEE THE PHASE 1, 2 AND 3 AS-BUILT DRAWINGS FOR MORE DETAILED INFORMATION IF NEEDED.

SEE DWG. 4484-E6  
FOR PARTIAL SITE PLAN

SEE DWG. 4484-E5  
FOR PARTIAL SITE PLAN

SEE DWG. 4484-E4  
FOR PARTIAL SITE PLAN



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:



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APMT PHASE IV YARD EXPANSION  
POWER, COMMUNICATIONS AND LIGHTING  
OVERALL SITE PLAN - TOP PICK LAYOUT

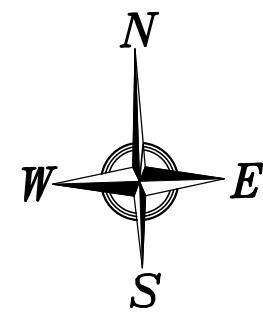
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: E2

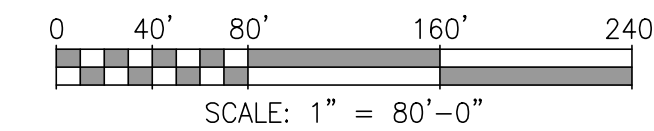
REV: A

NO.	REVISION	DATE	APPD	CK'D	DRAWN
A	ISSUED FOR BID	04/05/24	RSG	MED	WMB



**NOTES**

- 1. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:



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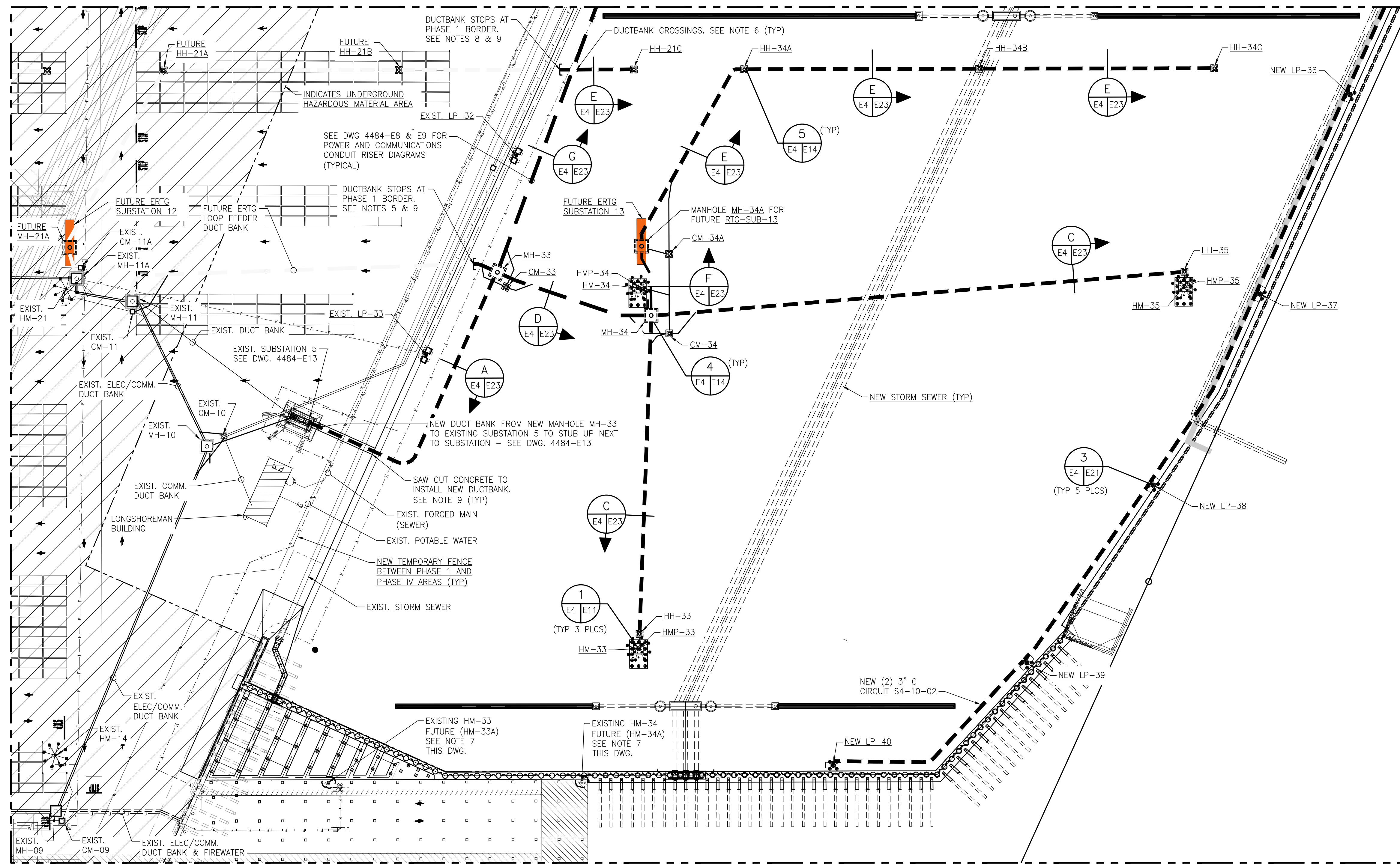
APMT PHASE IV YARD EXPANSION  
 POWER, COMMUNICATIONS AND LIGHTING  
 SITE PLAN - TOP PICK LAYOUT

FOR: ALABAMA PORT AUTHORITY

NOTES		REFERENCE DRAWINGS		ISSUED FOR BID		DRAWN		DATE		SCALE	
NO.	REVISION	NO.	REVISION	WMB	MED	RSG	DATE	SCALE	DATE	SCALE	
A	ISSUED FOR BID			WMB	MED	RSG	04/05/24	AS NOTED			

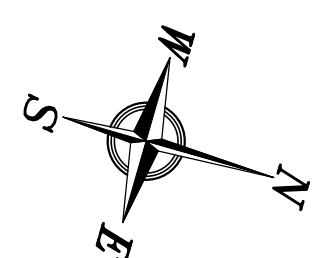
PROJECT NO: 4484 DWG NO: E3 REV: A

SEE DRAWING E5 FOR CONTINUATION

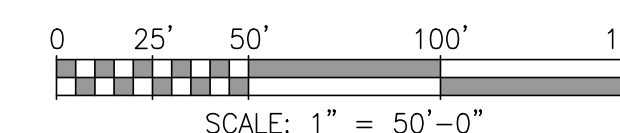


**NOTES**

1. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.
2. FOR HIGHMAST LIGHTING SEE DRAWING 4484-E8 FOR THE POWER RISER DIAGRAM AND CABLE SCHEDULE. SEE DRAWING 4484-E9 FOR THE COMMUNICATIONS/FIBER RISER DIAGRAM AND CABLE SCHEDULE.
3. FOR PERIMETER LIGHTING SEE DRAWING 4484-E15 FOR THE CONDUIT RISER DIAGRAM WITH CABLE SCHEDULE. SEE DRAWING 4484-E16 FOR THE PERIMETER LIGHTING DEMOLITION KEY NOTES AND DETAILS.
4. EXISTING PERIMETER LIGHT POLES LP-25 THRU LP-33 TO REMAIN IN PLACE DURING CONSTRUCTION. NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 TO BE INSTALLED FOR THIS PROJECT ALONG THE PERIMETER OF THE PHASE IV AREA AS SHOWN.
5. EXTEND ERTG LOOP FEEDER DUCTBANK TO THE PHASE 1 BORDER AND CAP CONDUITS UNDERGROUND FOR FUTURE CONTINUATION TO ELECTRICAL MANHOLE MH-11 AND COMMUNICATIONS HANDHOLE CM-11.
6. FOR DUCTBANK CROSSINGS USE SAME DETAIL AS UTILITY CROSSINGS ON DRAWING 4484-E23.
7. EXISTING HIGHMAST POLES HM-33 AND HM-34 WILL BE REMOVED AND REINSTALLED DURING THE PHASE IV EXPANSION. SEE ELECTRICAL SCOPE OF WORK NOTE 4 ON DRAWING 4484-E1 FOR DEMOLITION AND REINSTALLATION INFORMATION.
8. DUCTBANKS TO BE BROUGHT UP TO THE PHASE 1 BORDER AND CAPPED FOR FUTURE EXPANSION INTO THE PHASE 1 AREA.
9. VERIFY UNDERGROUND UTILITIES BEFORE TRENCHING. SEE DRAWING 4484-G2 SHEET 2 OF 2 FOR LIST OF REFERENCE DRAWINGS REGARDING UNDERGROUND UTILITIES INCLUDING FIRE WATER, FORCED MAIN, GAS, ETC.



**PARTIAL SITE PLAN**  
1"=50'



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
POWER, COMMUNICATIONS AND LIGHTING  
PARTIAL SITE PLAN - SHEET 1 OF 3

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: E4

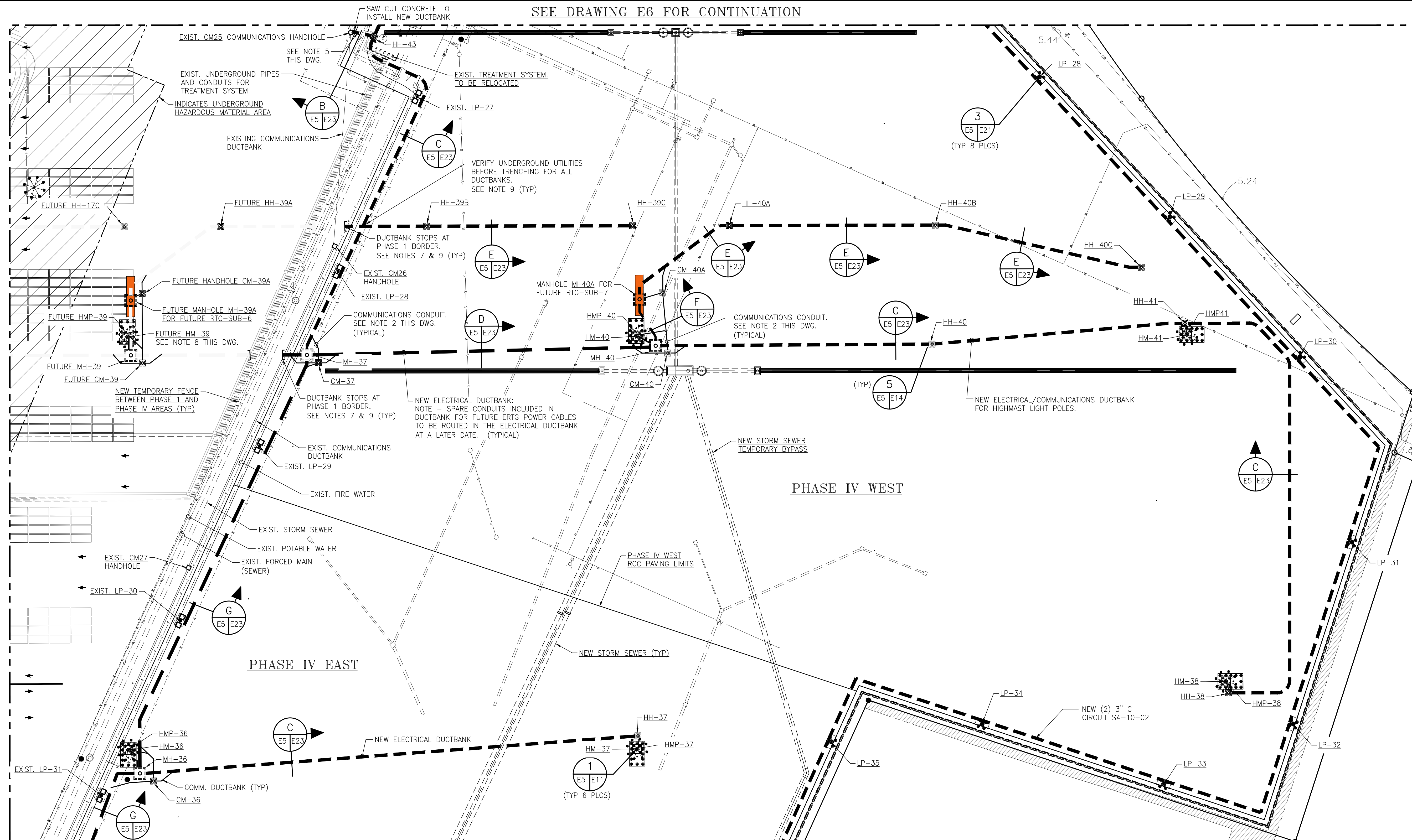
REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

SEE DRAWING E6 FOR CONTINUATION



NOTES

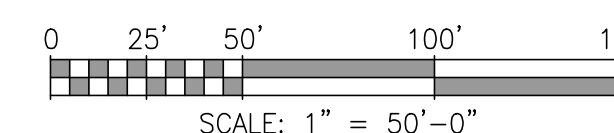
- SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.
- FOR HIGHMAST LIGHTING SEE DRAWING 4484-E8 FOR THE POWER RISER DIAGRAM AND CABLE SCHEDULE. SEE DRAWING 4484-E9 FOR THE COMMUNICATIONS/FIBER RISER DIAGRAM AND CABLE SCHEDULE.
- FOR PERIMETER LIGHTING SEE DRAWING 4484-E15 FOR THE CONDUIT RISER DIAGRAM WITH CABLE SCHEDULE. SEE DRAWING 4484-E16 FOR THE PERIMETER LIGHTING DEMOLITION KEY NOTES AND DETAILS.
- EXISTING PERIMETER LIGHT POLES LP-25 THRU LP-33 TO REMAIN IN PLACE DURING CONSTRUCTION. NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 TO BE INSTALLED FOR THIS PROJECT ALONG THE PERIMETER OF THE PHASE IV AREA AS SHOWN.
- INSTALL NEW DUCTBANK CONNECTIONS TO EXISTING COMMUNICATIONS HANDHOLE CM25 WHICH WILL REQUIRE CUTTING EXISTING HANDHOLE CONCRETE WALLS TO INSTALL NEW CONDUITS.
- FOR DUCTBANK CROSSINGS USE SAME DETAIL AS UTILITY CROSSINGS ON DRAWING 4484-E23.
- DUCTBANKS TO BE BROUGHT UP TO THE PHASE 1 BORDER AND CAPPED FOR FUTURE EXPANSION INTO THE PHASE 1 AREA.
- HIGHMAST LIGHT POLE HM-39 INCLUDING HMP-39A, MH-39, CM-39, CM-39A AND HH-39A ARE FOR FUTURE INSTALLATION REFERENCE ONLY.
- VERIFY UNDERGROUND UTILITIES BEFORE TRENCHING. SEE DRAWING 4484-G2 SHEET 2 OF 2 FOR LIST OF REFERENCE DRAWINGS REGARDING UNDERGROUND UTILITIES INCLUDING FIRE WATER, FORCED MAIN, GAS, ETC.

PHASE IV WEST

PHASE IV EAST

SEE DRAWING E4 FOR CONTINUATION

PARTIAL SITE PLAN  
1"=50'



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

NOTES

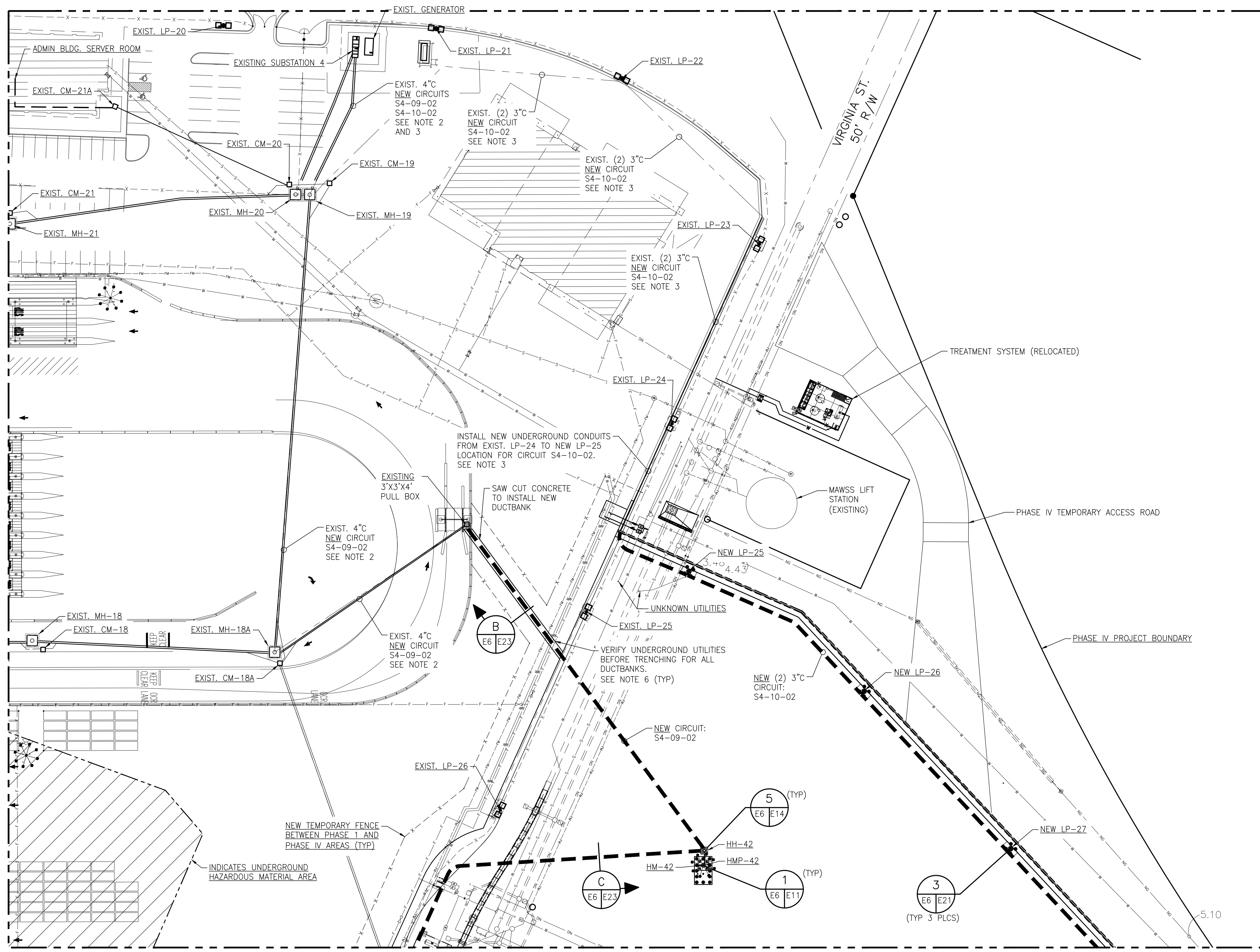
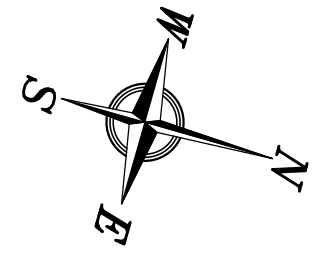


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APMT PHASE IV YARD EXPANSION  
POWER, COMMUNICATIONS AND LIGHTING  
PARTIAL SITE PLAN - SHEET 2 OF 3

FOR: ALABAMA PORT AUTHORITY

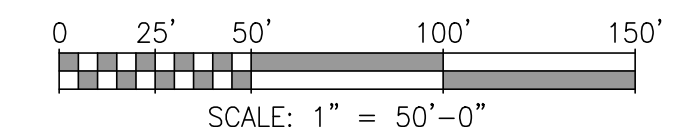
PROJECT NO: 4484 DWG NO: E5 REV: A



- ### NOTES
- SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.
  - FOR HIGHMAST LIGHTING SEE DRAWING 4484-E8 FOR THE POWER RISER DIAGRAM AND CABLE SCHEDULE. SEE DRAWING 4484-E9 FOR THE COMMUNICATIONS/FIBER RISER DIAGRAM AND CABLE SCHEDULE.
  - SEE DRAWING 4484-E15 FOR THE PERIMETER LIGHTING CONDUIT RISER DIAGRAM AND CABLE SCHEDULE. SEE DRAWING 4484-E16 FOR THE PERIMETER LIGHTING DEMOLITION DETAILS AND EXISTING CABLE SCHEDULE.
  - EXISTING PERIMETER LIGHT POLES LP-25 THRU LP-33 TO REMAIN IN PLACE DURING CONSTRUCTION. SEE DEMOLITION DWG. 4484-E16 KEY NOTES.
  - NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 TO BE INSTALLED FOR THIS PROJECT ALONG THE PERIMETER OF THE PHASE IV AREA AS SHOWN.
  - VERIFY UNDERGROUND UTILITIES BEFORE TRENCHING. SEE DRAWING 4484-G2 SHEET 2 OF 2 FOR LIST OF REFERENCE DRAWINGS REGARDING UNDERGROUND UTILITIES INCLUDING FIRE WATER, FORCED MAIN, GAS, ETC.

SEE DRAWING E5 FOR CONTINUATION

**PARTIAL SITE PLAN**  
1"=50'



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
POWER, COMMUNICATIONS AND LIGHTING  
PARTIAL SITE PLAN - SHEET 3 OF 3

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: E6 REV: A



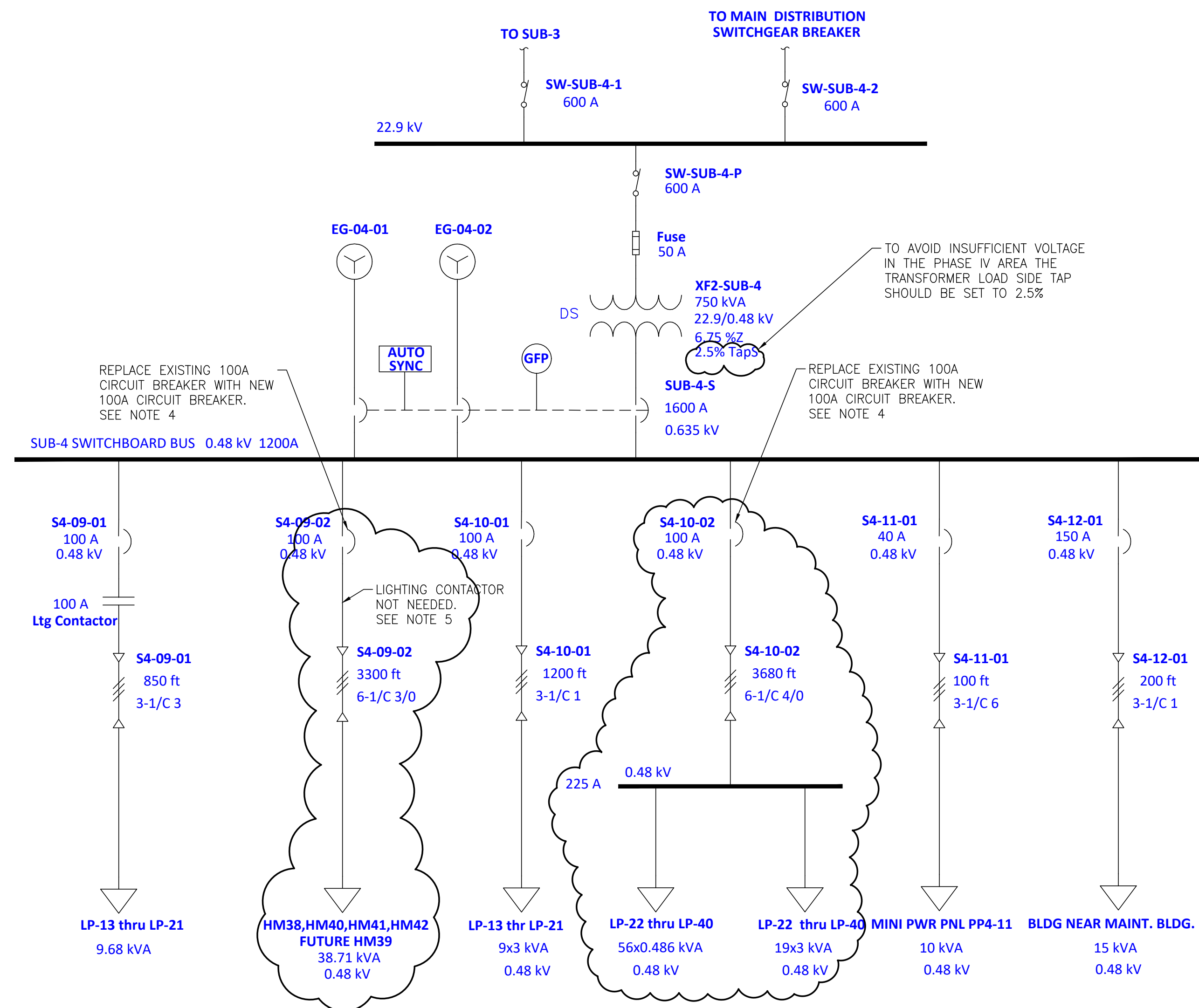
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NO.	REVISION	DATE	APPD	CK'D	DRAWN
A	ISSUED FOR BID	04/05/24	RSG	MED	WMB
	REFERENCE DRAWINGS				

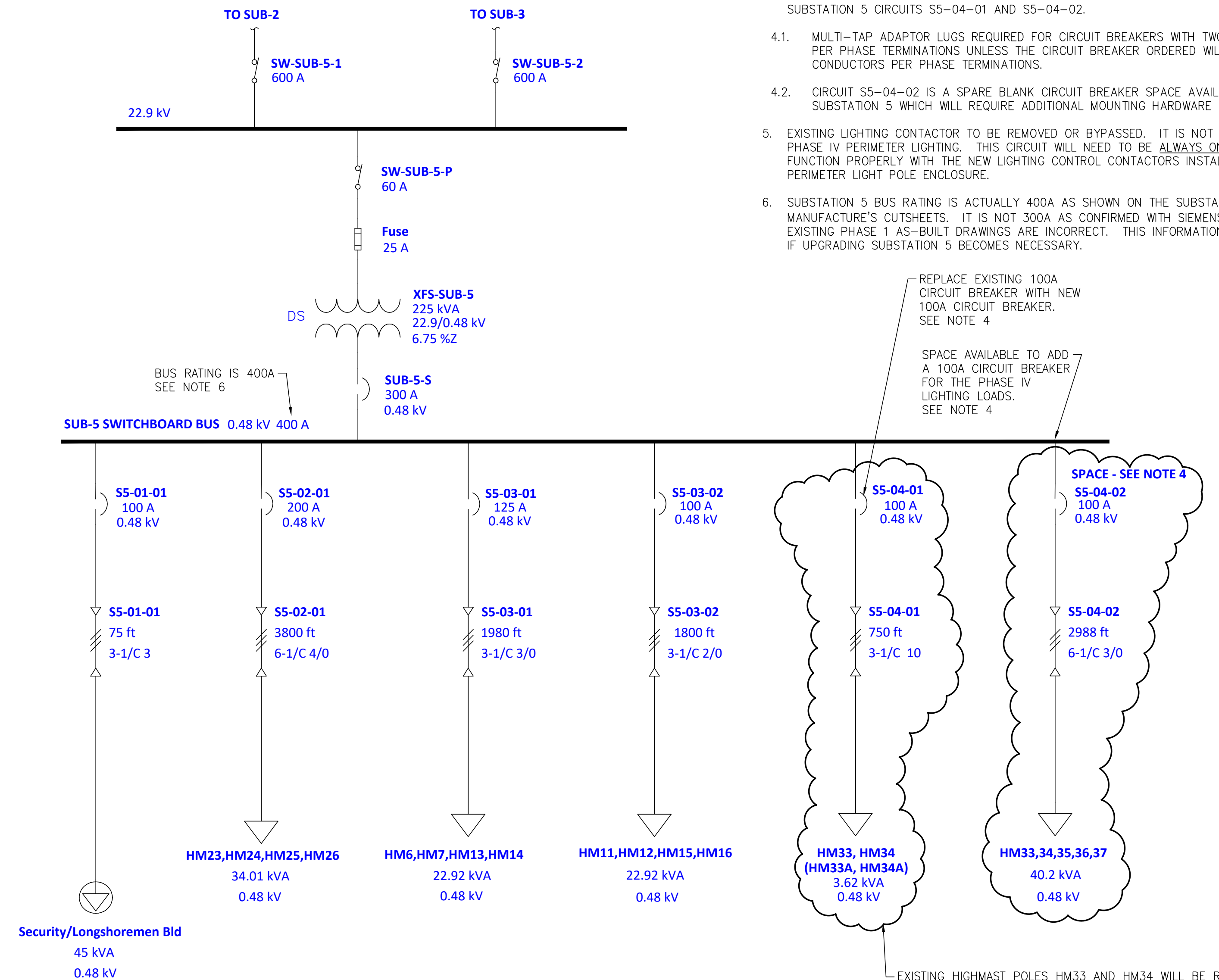


**NOTES**

- SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.
- CLOUDED AREA ON DRAWING REPRESENTS THE ELECTRICAL SCOPE OF WORK.
- CONFIRMED WITH SWITCHGEAR MANUFACTURE THAT THERE IS A SPACE AVAILABLE IN THE SUBSTATION 5 SWITCHBOARD TO ADD ONE ADDITIONAL 100A CIRCUIT BREAKER IN THE FUTURE.
- SIEMENS HEB3B100, 3 POLE, 100A, 0.6KV, 65KVA@480V CIRCUIT BREAKERS TO BE INSTALLED NEW IN THE FOLLOWING LOCATIONS:  
SUBSTATION 4 CIRCUITS S4-09-02 AND S4-10-02.  
SUBSTATION 5 CIRCUITS S5-04-01 AND S5-04-02.
- MULTI-TAP ADAPTOR LUGS REQUIRED FOR CIRCUIT BREAKERS WITH TWO CONDUCTORS PER PHASE TERMINATIONS UNLESS THE CIRCUIT BREAKER ORDERED WILL ACCEPT TWO CONDUCTORS PER PHASE TERMINATIONS.
- CIRCUIT S5-04-02 IS A SPARE BLANK CIRCUIT BREAKER SPACE AVAILABLE IN SUBSTATION 5 WHICH WILL REQUIRE ADDITIONAL MOUNTING HARDWARE AND COVER PLATE.
- EXISTING LIGHTING CONTACTOR TO BE REMOVED OR BYPASSED. IT IS NOT NEEDED FOR THE PHASE IV PERIMETER LIGHTING. THIS CIRCUIT WILL NEED TO BE ALWAYS ON IN ORDER TO FUNCTION PROPERLY WITH THE NEW LIGHTING CONTROL CONTACTORS INSTALLED IN EACH PERIMETER LIGHT POLE ENCLOSURE.
- SUBSTATION 5 BUS RATING IS ACTUALLY 400A AS SHOWN ON THE SUBSTATION MANUFACTURE'S CUTSHEETS. IT IS NOT 300A AS CONFIRMED WITH SIEMENS ENGINEERING. EXISTING PHASE 1 AS-BUILT DRAWINGS ARE INCORRECT. THIS INFORMATION WAS OBTAINED IF UPGRADING SUBSTATION 5 BECOMES NECESSARY.



**SUBSTATION 4 PARTIAL ONE LINE DIAGRAM**



**SUBSTATION 5 PARTIAL ONE LINE DIAGRAM**



CLIENT DWG NO: 11261 - TASK 1

APMT PHASE IV YARD EXPANSION  
ELECTRICAL PARTIAL ONE LINE DIAGRAMS  
SUBSTATIONS 4 & 5 PHASE IV LIGHTING

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: E7

REV: A



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DRAWN: WMB CK'D: MED APPD: RSG DATE: 02/21/23 SCALE: NONE

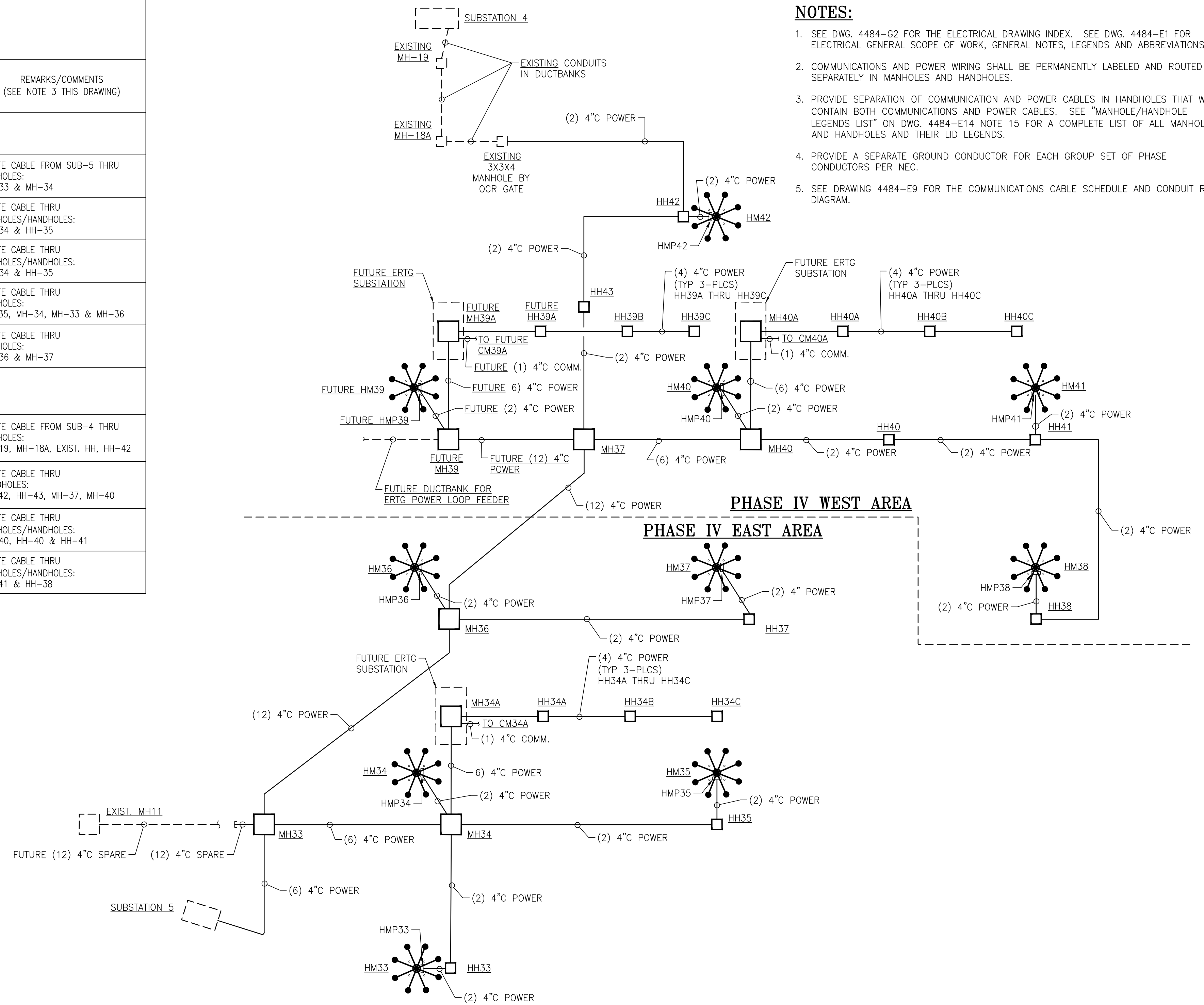
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
NO.	REVISION	DRAWN	CK'D	APPD	DATE

REFERENCE DRAWINGS

# HIGHMAST LIGHTING CABLE SCHEDULE - SUBS-4 & 5

CABLE IDENTIFIER	QTY	ESTIMATED FOOTAGES FIELD VERIFY	DESCRIPTION	GROUND SIZE SEE NOTE 4	CONDUIT SIZE	ROUTING FROM:	ROUTING TO:	REMARKS/COMMENTS (SEE NOTE 3 THIS DRAWING)
PHASE IV EAST AREA - SUBSTATION 5 CIRCUIT S5-04-02								
S5-04-02	6	708 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	SUBSTATION 5 BREAKER S5-04-02	HIGHMAST LIGHTING CONTROL PANEL HMP-33	ROUTE CABLE FROM SUB-5 THRU MANHOLES: MH-33 & MH-34
S5-04-02	6	308 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	HIGHMAST LIGHTING CONTROL PANEL HMP33	HIGHMAST LIGHTING CONTROL PANEL HMP-34	ROUTE CABLE THRU MANHOLES/HANDHOLES: MH-34 & HH-35
S5-04-02	6	495 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	HIGHMAST LIGHTING CONTROL PANEL HMP34	HIGHMAST LIGHTING CONTROL PANEL HMP-35	ROUTE CABLE THRU MANHOLES/HANDHOLES: MH-34 & HH-35
S5-04-02	6	952 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	HIGHMAST LIGHTING CONTROL PANEL HMP35	HIGHMAST LIGHTING CONTROL PANEL HMP-36	ROUTE CABLE THRU MANHOLES: HH-35, MH-34, MH-33 & MH-36
S5-04-02	6	525 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	HIGHMAST LIGHTING CONTROL PANEL HMP-36	HIGHMAST LIGHTING CONTROL PANEL HMP-37	ROUTE CABLE THRU MANHOLES: MH-36 & MH-37
PHASE IV WEST AREA - SUBSTATION 4 CIRCUIT S4-09-02								
S4-09-02	6	1127 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	SUBSTATION 4 BREAKER S4-09-02	HIGHMAST LIGHTING CONTROL PANEL HMP-42	ROUTE CABLE FROM SUB-4 THRU MANHOLES: MH-19, MH-18A, EXIST. HH, HH-42
S4-09-02	6	1030 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	HIGHMAST LIGHTING CONTROL PANEL HMP-42	HIGHMAST LIGHTING CONTROL PANEL HMP-40	ROUTE CABLE THRU HANDHOLES: HH-42, HH-43, MH-37, MH-40
S4-09-02	6	553 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	HIGHMAST LIGHTING CONTROL PANEL HMP-40	HIGHMAST LIGHTING CONTROL PANEL HMP-41	ROUTE CABLE THRU MANHOLES/HANDHOLES: MH-40, HH-40 & HH-41
S4-09-02	6	538 FT EA	#3/0, 600V, TYPE THWN-2	2-#4	4"	HIGHMAST LIGHTING CONTROL PANEL HMP-41	HIGHMAST LIGHTING CONTROL PANEL HMP-38	ROUTE CABLE THRU MANHOLES/HANDHOLES: HH-41 & HH-38

NOTE: HIGHMAST LIGHT POLE HM-39 CABLE ROUTING AND LENGTHS ARE NOT INCLUDED IN THIS CABLE SCHEDULE SINCE HIGHMAST LIGHT POLE HM-39 WILL NOT BE INSTALLED AS PART OF THE PHASE IV PROJECT.



**POWER CONDUIT RISER DIAGRAM**  
N.T.S.

- NOTES:**
- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
  - COMMUNICATIONS AND POWER WIRING SHALL BE PERMANENTLY LABELED AND ROUTED SEPARATELY IN MANHOLES AND HANDHOLES.
  - PROVIDE SEPARATION OF COMMUNICATION AND POWER CABLES IN HANDHOLES THAT WILL CONTAIN BOTH COMMUNICATIONS AND POWER CABLES. SEE "MANHOLE/HANDHOLE LEGENDS LIST" ON DWG. 4484-E14 NOTE 15 FOR A COMPLETE LIST OF ALL MANHOLES AND HANDHOLES AND THEIR LID LEGENDS.
  - PROVIDE A SEPARATE GROUND CONDUCTOR FOR EACH GROUP SET OF PHASE CONDUCTORS PER NEC.
  - SEE DRAWING 4484-E9 FOR THE COMMUNICATIONS CABLE SCHEDULE AND CONDUIT RISER DIAGRAM.



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:



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APMT PHASE IV YARD EXPANSION  
HIGHMAST LIGHTING POWER CABLE SCHEDULE  
AND CONDUIT RISER DIAGRAM

FOR: ALABAMA PORT AUTHORITY

NOTES	NO.	REVISION	DATE	APPD	DATE	SCALE
	A	ISSUED FOR BID	04/05/24	WMB	RSG	NONE
REFERENCE DRAWINGS						

PROJECT NO: 4484 | DWG NO: E8 | REV: A

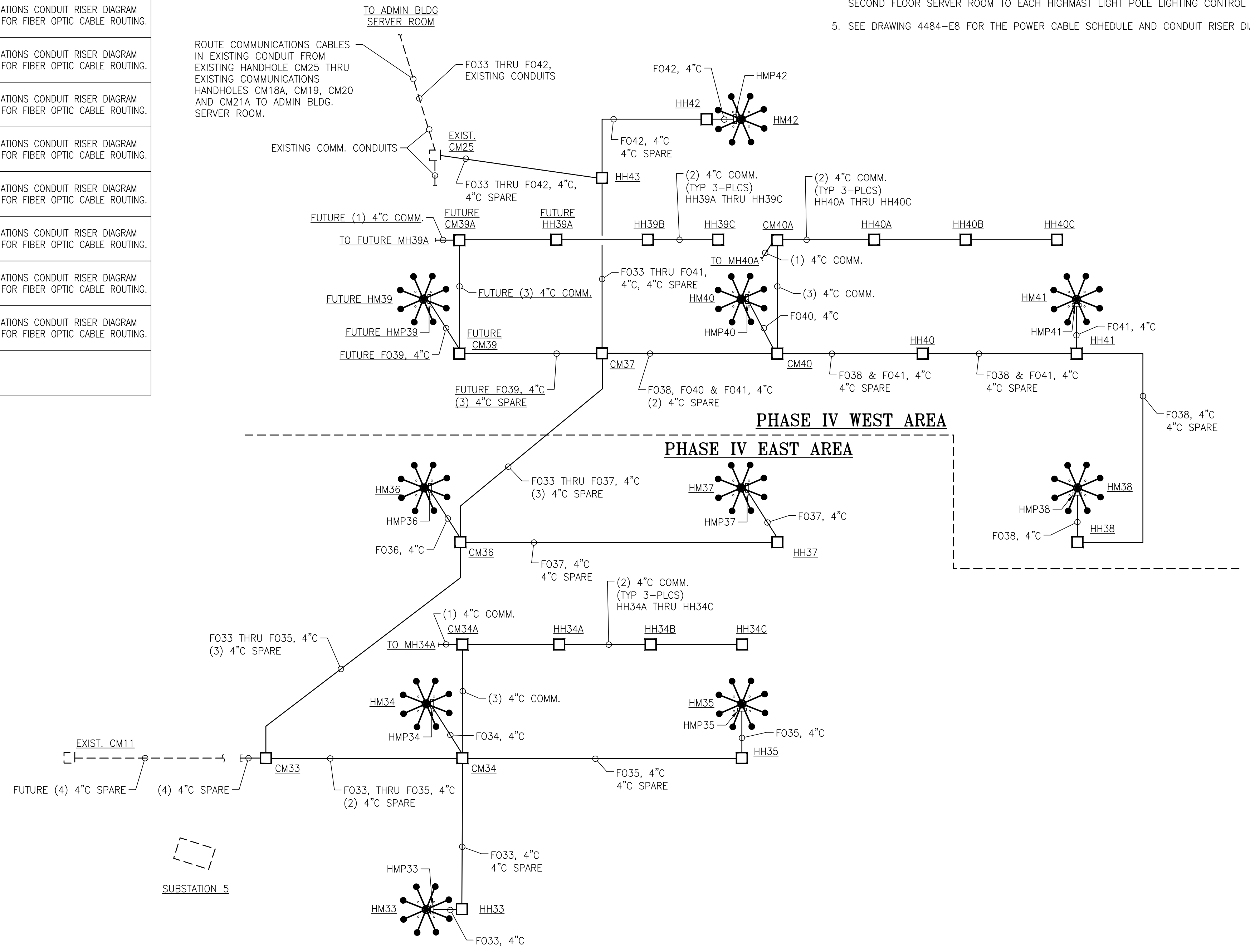
PHASE IV HIGHMAST LIGHTING FIBER OPTIC CABLE SCHEDULE FOR LIGHTING CONTROL

FIBER CABLE IDENTIFIER	QTY	ESTIMATED FOOTAGES (FIELD VERIFY)	DESCRIPTION	CONDUIT SIZE	ROUTING FROM: (SEE NOTE 4 THIS DRAWING)	ROUTING TO: (SEE NOTE 4 THIS DRAWING)	REMARKS/COMMENTS (SEE NOTE 3 THIS DRAWING)
F033	1	2780 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP33	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F034	1	2556 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP34	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F035	1	2964 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP35	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F036	1	2021 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP36	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F037	1	2476 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP37	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F038	1	2951 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP48	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F040	1	1911 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP40	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F041	1	2439 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP41	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.
F042	1	1446 FT EA	SINGLE STRAND MULTI MODE FIBER	4"	ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM	HIGHMAST LIGHTING CONTROL PANEL HMP42	SEE COMMUNICATIONS CONDUIT RISER DIAGRAM THIS DRAWING FOR FIBER OPTIC CABLE ROUTING.

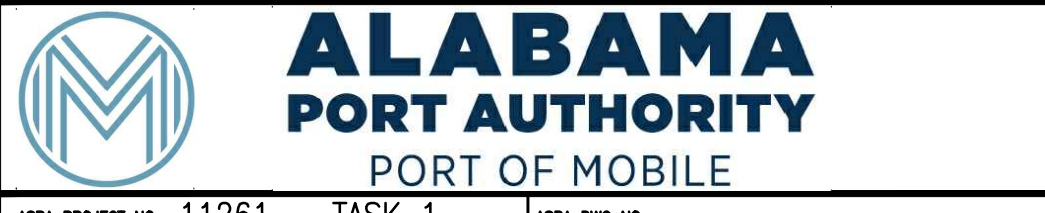
- NOTES:**
- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
  - COMMUNICATIONS AND POWER WIRING SHALL BE PERMANENTLY LABELED ON BOTH ENDS AND ROUTED SEPARATELY IN MANHOLES AND HANDHOLES.
  - PROVIDE SEPARATION OF COMMUNICATION AND POWER CABLES IN HANDHOLES THAT WILL CONTAIN BOTH COMMUNICATIONS AND POWER CABLES. SEE "MANHOLE/HANDHOLE LEGENDS LIST" ON DWG. 4484-E14 NOTE 15 FOR A COMPLETE LIST OF ALL MANHOLES AND HANDHOLES AND THEIR LID LEGENDS.
  - FIBER OPTIC CABLES ARE TO BE HOME RUN PULLS FROM THE ADMINISTRATION BUILDING SECOND FLOOR SERVER ROOM TO EACH HIGHMAST LIGHT POLE LIGHTING CONTROL PANEL.
  - SEE DRAWING 4484-E8 FOR THE POWER CABLE SCHEDULE AND CONDUIT RISER DIAGRAM.

NOTE: THIS FIBER OPTIC CABLE SCHEDULE IS FOR LIGHTING CONTROLS. THE FIBER OPTIC CABLE SCHEDULE FOR THE COMMUNICATIONS FIBER OPTICS FOR CAMERAS AND WIFI IS SIMILAR TO THIS CABLE SCHEDULE. COORDINATE WITH APM TERMINAL I.T. REPRESENTATIVE FOR CAMERA AND WIFI FIBER OPTIC CABLE PULLS IF REQUIRED FOR THIS CONTRACTOR.

NOTE: HIGHMAST LIGHT POLE HM-39 CABLE ROUTING AND LENGTHS ARE NOT INCLUDED IN THIS CABLE SCHEDULE SINCE HIGHMAST LIGHT POLE HM-39 WILL NOT BE INSTALLED AS PART OF THE PHASE IV PROJECT.



**COMMUNICATIONS CONDUIT RISER DIAGRAM**  
N.T.S.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
HIGHMAST LIGHTING COMMUNICATIONS FIBER CABLE SCHEDULE AND CONDUIT RISER DIAGRAM

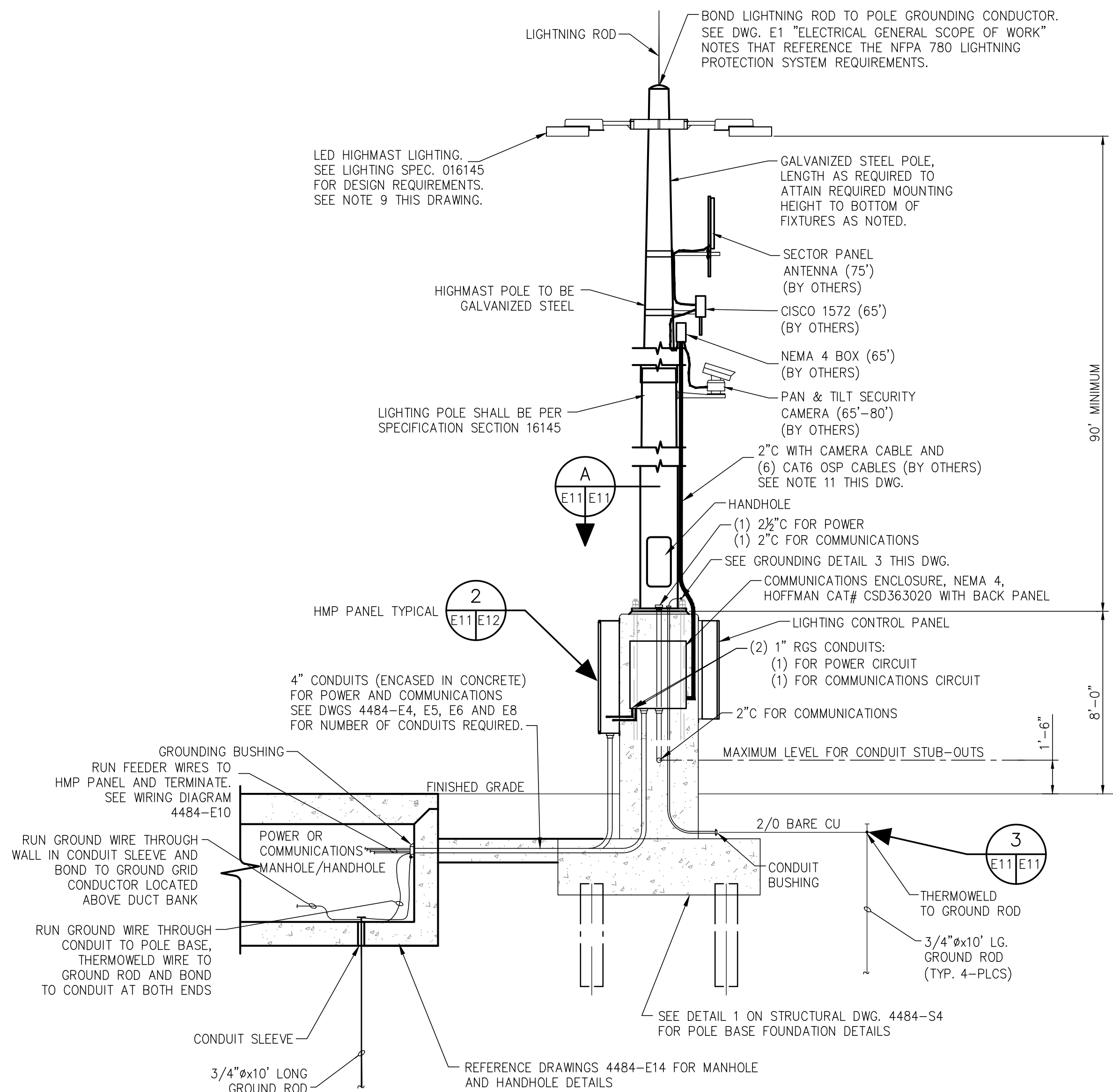
FOR: ALABAMA PORT AUTHORITY  
PROJECT NO: 4484 DWG NO: E9



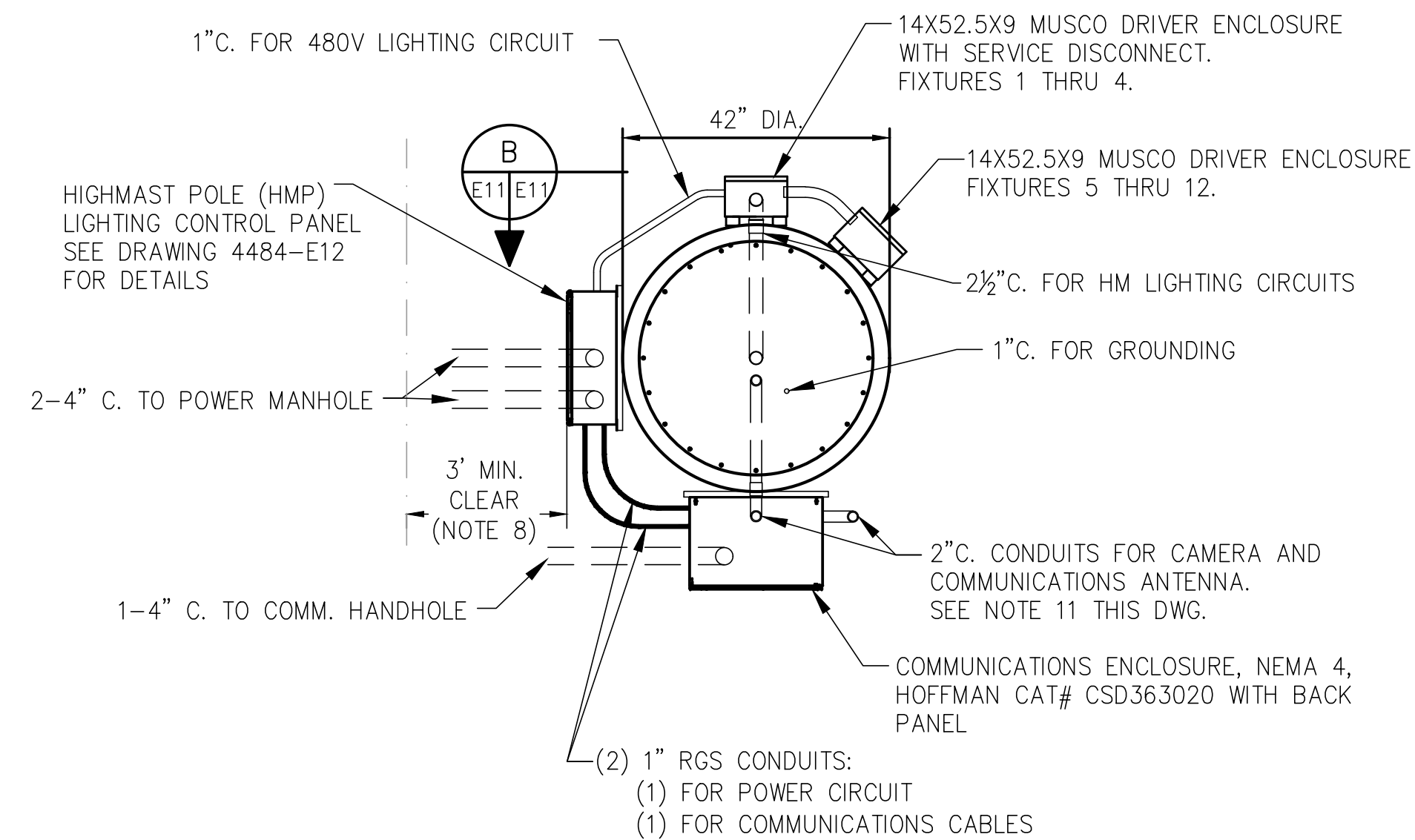
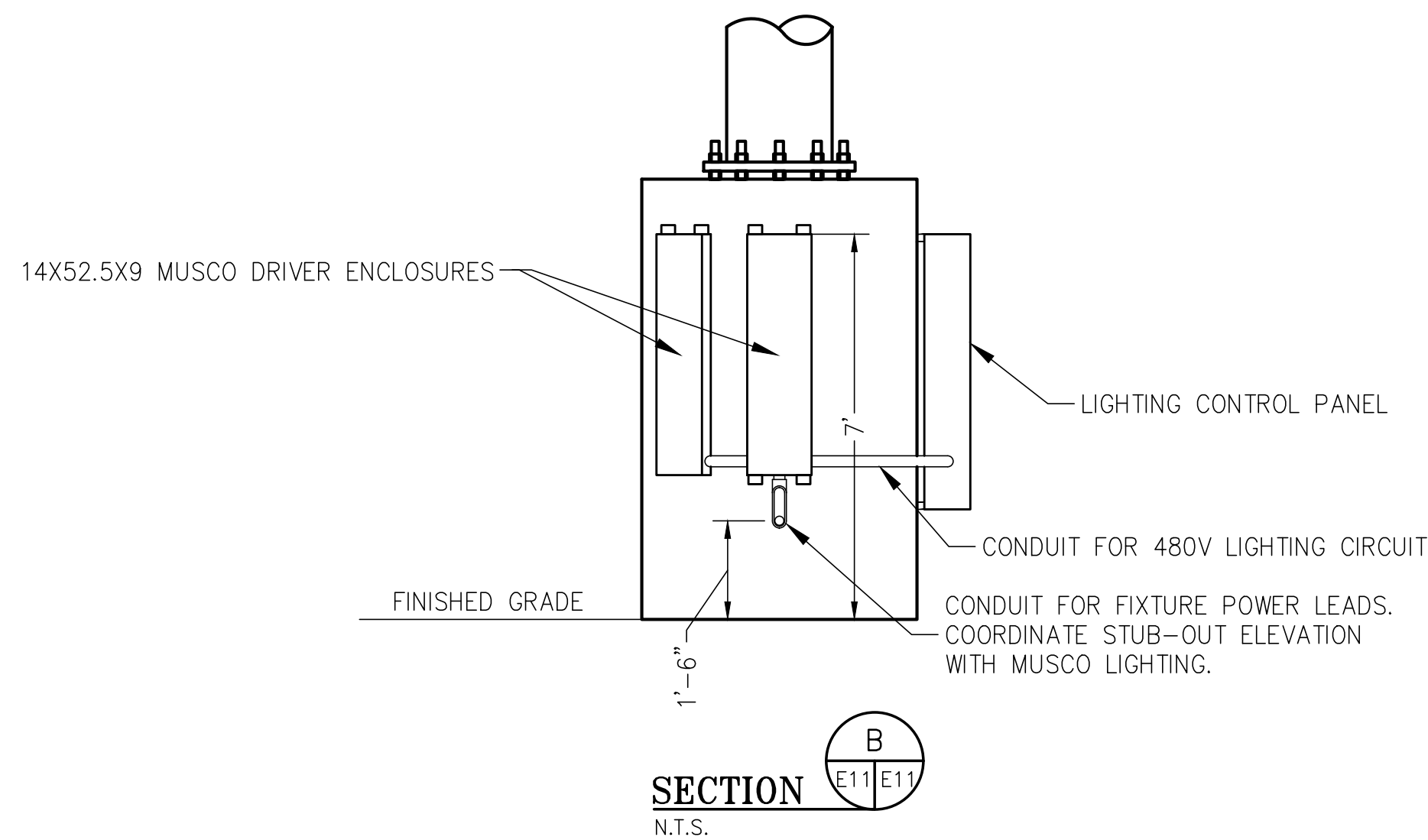
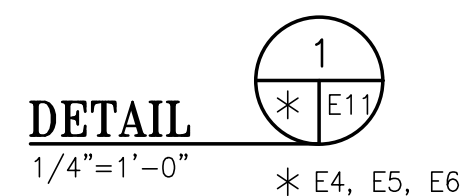
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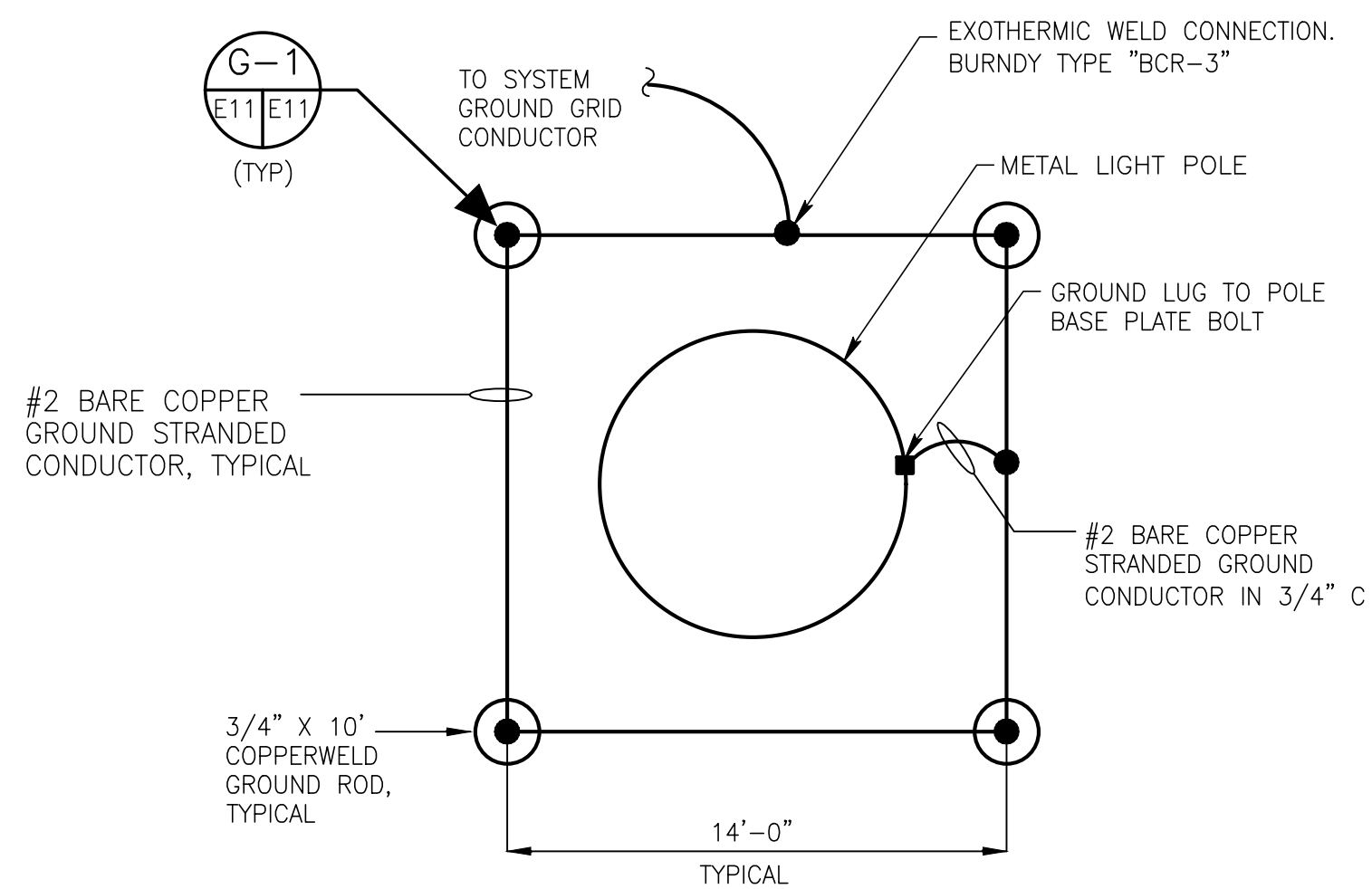


**TYPICAL HIGHMAST LIGHTING POLE**



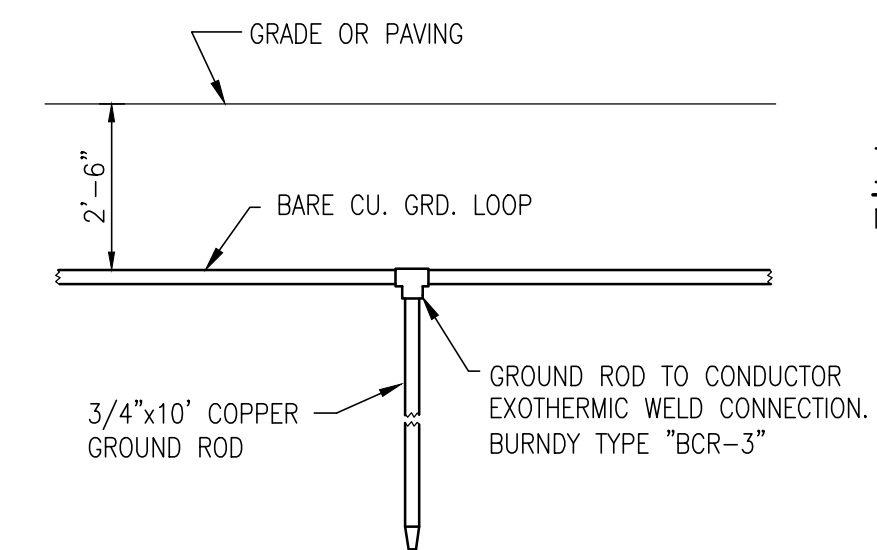
**SECTION A**  
N.T.S.

- NOTES:**
- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
  - HIGHMAST SYSTEM SHALL BE PRE-APPROVED BY ENGINEER.
  - HIGHMAST LIGHTING SYSTEM SHALL BE CAPABLE OF WITHSTANDING 155 MPH WINDS IN ACCORDANCE WITH ASCE 7.
  - CONTRACTOR SHALL USE SAME MANUFACTURER AND TYPE HIGHMAST SYSTEM AT ALL LOCATIONS.
  - THE HIGHMAST TOWER SHALL BE GROUNDED AS INDICATED ON THE ASSOCIATED GROUNDED DETAILS AND TO THE SYSTEM GROUND CONDUCTOR.
  - PROVIDE AND INSTALL TERMINAL FOR GROUNDED LIGHT POLE. TERMINAL SHALL BE ACCESSIBLE FROM HANDHOLE.
  - ALL SCREWS ON THE FIXTURES SHALL HAVE "ANTI-SEIZED" LUBE.
  - MAINTAIN A 36" MIN DEPT OF CLEAR WORKING SPACE AT ELECTRICAL EQUIPMENT PER NFPA 70, NEC TABLE 110.26(A)(1) AND 110.34(A) FOR 600V LIVE PARTS MIN CLEAR DISTANCES. CONTRACTOR TO POSITION LIGHTING CONTROL PANELS AVOIDING INTERFERENCES OF BOLLARDS, FIRE HYDRANTS, FENCING, ETC.
  - CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT LIGHTING ON THE HIGHMAST LIGHT POLES TO ACHIEVE THE MAX/MIN AVERAGE FOOTCANDLES OF 5FC. CONTRACTOR TO PROVIDE LIGHTING SPREAD CALCULATIONS SUPPLIED BY AN APPROVED LIGHTING VENDOR DETAILING THE DESIRED MAX/MIN AVERAGE RESULTS.
  - ALL FIBER OPTIC CABLE, CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW HIGHMAST LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
  - CONTRACTOR TO COORDINATE WITH APM TERMINAL SECURITY AND COMMUNICATIONS PERSONNEL REGARDING THE ROUTING OF CABLES INSIDE THE POLE OR ON THE OUTSIDE SURFACE OF THE POLE.



- NOTES:**
- GROUND GRID COST SHALL BE INCLUDED WITH FOUNDATION COST.
  - GROUND GRID SHALL BE 36" BELOW FINISHED GRADE.
  - CADWELD ALL CONNECTIONS.

**HIGHMAST TOWER GROUNDED DETAIL**  
NOT TO SCALE



**DETAIL "G-1"**  
GROUND ROD



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
HIGHMAST LIGHTING INSTALLATION  
AND GROUNDED DETAILS

FOR: ALABAMA PORT AUTHORITY

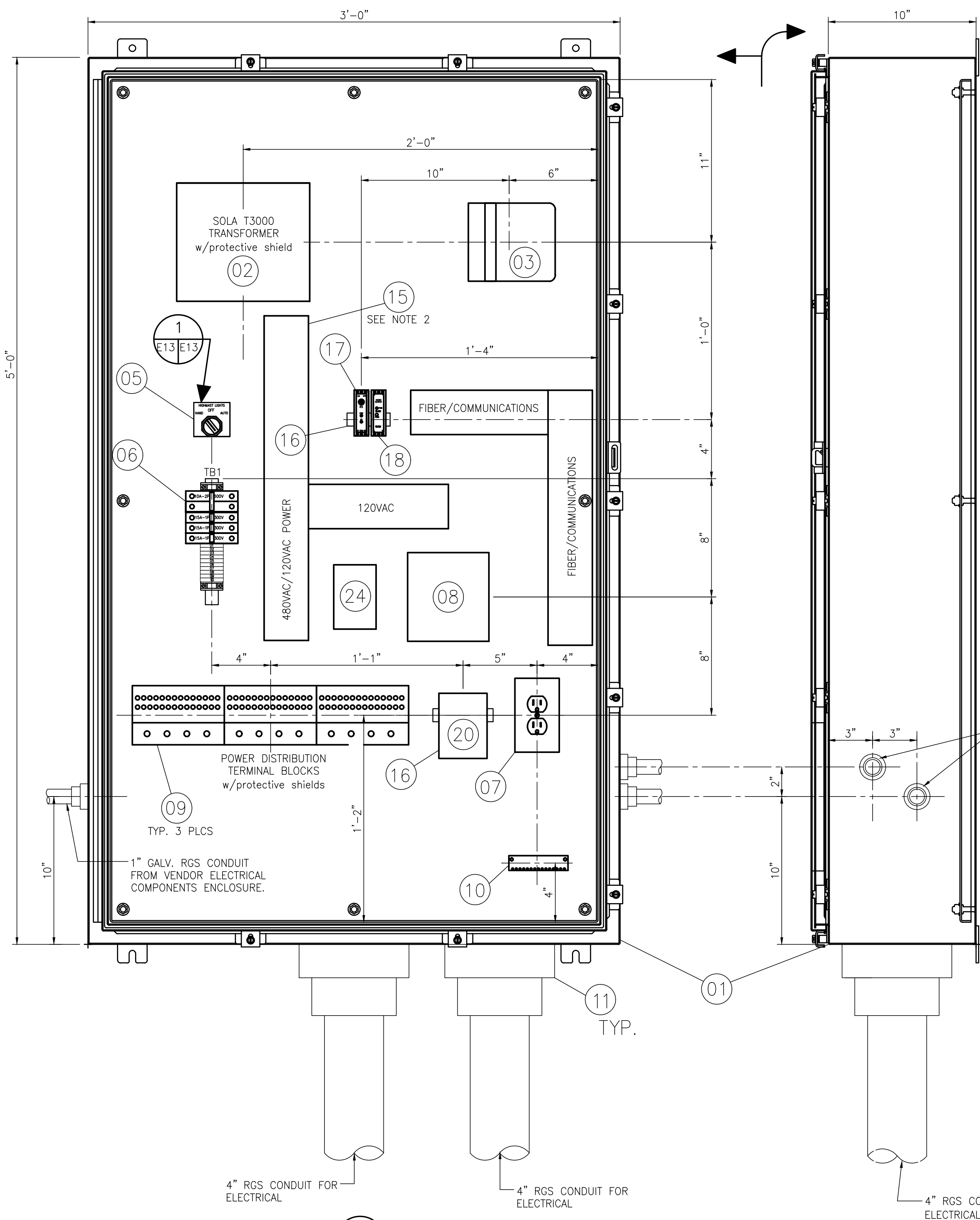
PROJECT NO: 4484 DWG NO: E11 REV: A



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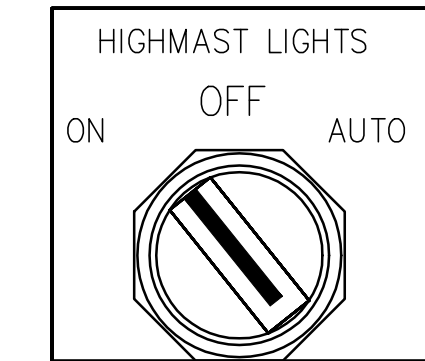
DRAWN: WMB CK'D: MED APPD: RSG DATE: 12/14/22 SCALE: NONE

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
	REFERENCE DRAWINGS				



**NOTES:**

- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- PANDUIT OR APPROVED EQUAL PVC WIRING DUCT CABLE MANAGEMENT ORGANIZER SLOTTED WITH SNAP-ON COVERS SIZED FOR THE CABLE RUNS AND CABLE BUNDLES TO BE USED. SECURE TO CONTROL PANEL BACKPLATE WITH STAINLESS STEEL FASTENERS. LABEL "POWER" OR "FIBER/COMMUNICATIONS" WITH POWER RATING FOR EACH PANDUIT DUCT SYSTEM.
- ALL FIBER OPTIC CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW HIGH MAST LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- LABEL THE PANEL, SWITCHES AND MAJOR COMPONENTS AS INDICATED ON THIS DRAWING WITH SELF ADHESIVE DURALABELS OR THE EQUIVALENT.
- SEE DRAWING 4484-E11 FOR LIGHTING CONTROL PANEL MOUNTING POSITIONS ON HIGH MAST POLE AND MINIMUM CLEARANCES PER NEC. MOUNT CENTER OF PANEL AT 48" AFF.



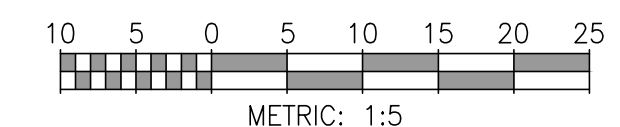
**DETAIL 1**  
SCALE: NONE

**LIST OF MATERIALS**

MARK	DESCRIPTION
01	60"x36"x12" 316 STAINLESS STEEL NEMA 4X ENCLOSURE HOFFMAN MODEL, A60H3612SS6LP. W/ALUMINUM BACKPANEL A6036P.
02	3kVA OPEN TYPE TRANSFORMER 480V/120V SOLA, MODEL T3000 WITH PROTECTIVE SHIELD
03	FIBER OPTIC SPLITTER BOX - MANUFACTURED BY BLACK BOX.
04	(NOT USED)
05	THREE POSITION SELECTOR SWITCH MAINTAINED POSITION. (2) N.C. AND (2) N.O. CONTACTS, ALLEN BRADLEY MODEL 800T-J2B. WITH 800T-X-700E NAMEPLATE THAT READS AS SHOWN ON DRAWING.
06	TERMINAL BLOCK "TB1" CONSISTING OF: (1) 10A-2P, 480V CIRCUIT BREAKER - ALLEN BRADLEY MODEL 1492-SP-2-D-100. (3) 15A-1P CIRCUIT BREAKERS - ALLEN BRADLEY MODEL 1492-CB-1-H-100-N. (10) TERMINAL BLOCKS - ALLEN BRADLEY MODEL 1492-F1 TERMINAL MOUNTING RAIL - ALLEN BRADLEY 1492-N22 END BARRIER - ALLEN BRADLEY MODEL 1492-N18. END CLAMPS - ALLEN BRADLEY MODEL 1492-N2.
07	15A 120V, GFCI RECEPTACLE FLUSH MOUNTED INSIDE OF ENCLOSURES. PROVIDE ALUMINUM WEATHER PROOF COVER. SHALL NOT BE A GFCI TYPE IN COMMUNICATIONS ENCLOSURE.
08	30A-3P, OPEN TYPE ELECTRICALLY HELD LIGHTING CONTACTOR W/AUX. CONTACTS. 120V COIL. ALLEN BRADLEY MODEL 500FL-B0D93
09	POWER DISTRIBUTION BLOCKS - ILSCO TYPE PDBU CAT. NO. PDBU-428-500-1 W/PROTECTIVE SHIELD
10	GROUND BAR
11	GALV. RAIN TIGHT HUB TYPICAL
12	(NOT USED)
13	(NOT USED)
14	(NOT USED)
15	3"x3" PANDUIT WIRING DUCT WITH COVERS, SEE NOTE 2 THIS DRAWING
16	35 MM DIN RAIL, ALLEN BRADLEY CAT. NO. 199-DR1., AS REQUIRED
17	FIBER OPTIC RECEIVER FOR-CC-850-MM-ST
18	24V DC POWER SUPPLY, DIN RAIL MOUNTED.
19	FIBER OPTIC CAMERA & SECURITY EQUIPMENT BY BLACK BOX. INSTALL IN COMM. ENCL. (BY OTHERS)
20	30A-3P CIRCUIT BREAKER ALLEN BRADLEY MODEL 1492-MC-BA330.
21	UNINTERRUPTIBLE POWER SUPPLY (UPS). INSTALL IN COMM. ENCL. (BY OTHERS)
22	FIBER OPTIC TRANSMITTER FOT-CC-850-MM-ST. INSTALL IN APMT SERVER ROOM
23	1M FIBER OPTIC CABLE. (SEE DWG. 4484-E21 PERIMETER LIGHTING AND CONTROL DIAGRAMS)
24	SURGE PROTECTION DEVICE - SURGE SUPPRESSOR
25	COMMUNICATIONS ENCLOSURE, NEMA 4, HOFFMAN CAT# CSD363020 WITH BACK PANEL

**NOTE:**  
ALL BOM ITEMS TO BE SUPPLIED BY CONTRACTOR UNLESS OTHERWISE NOTED.

**DETAIL 2**  
SCALE: 1:5  
**HIGHMAST LIGHT POLE CONTROL PANEL LAYOUT & DETAILS**



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
HIGHMAST LIGHTING CONTROL PANEL  
TYPICAL LAYOUT AND FABRICATION DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: E12 REV: A

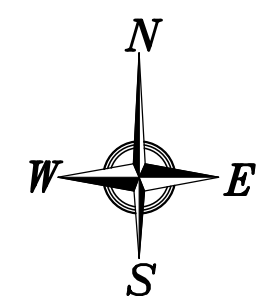
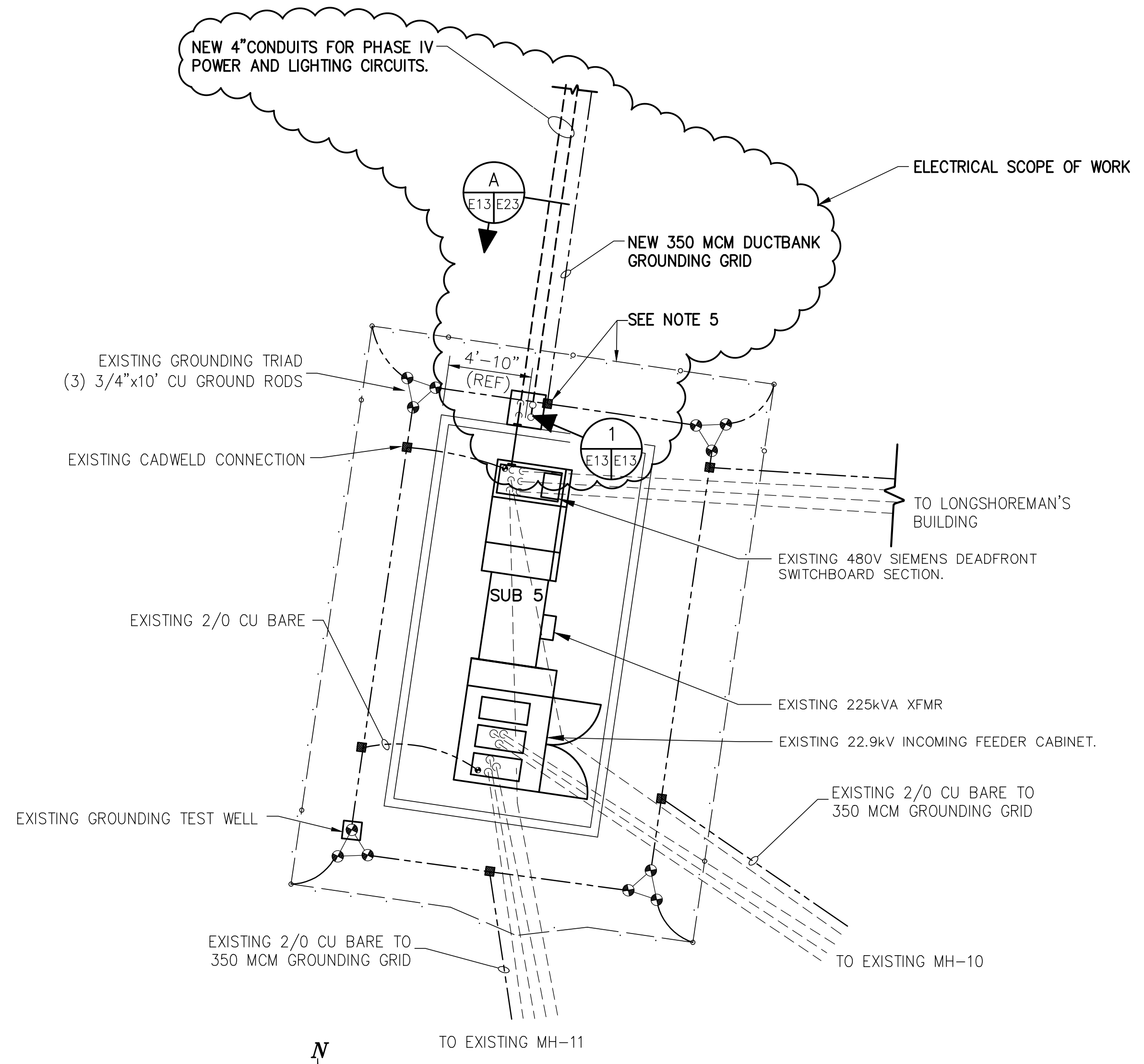


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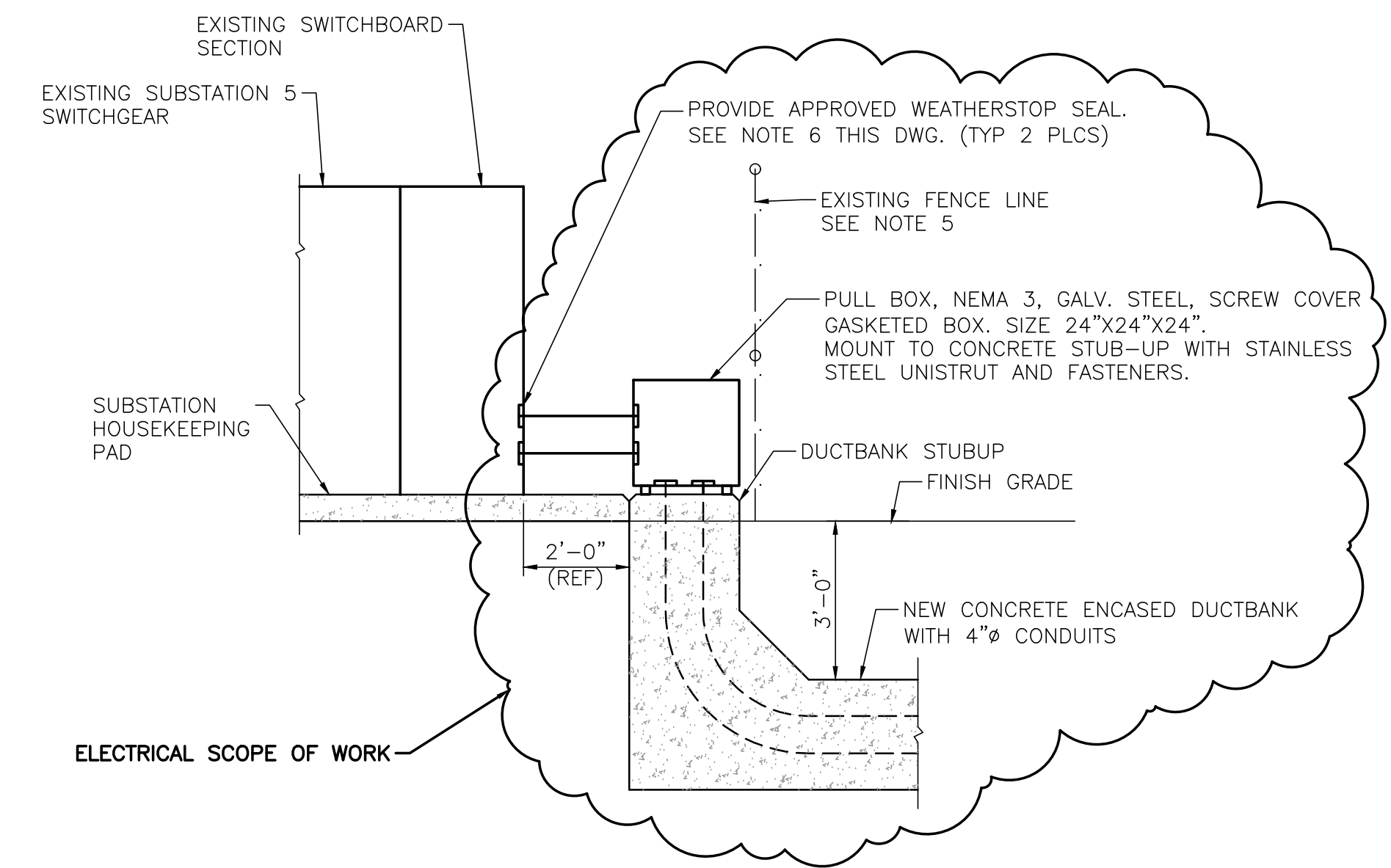
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A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
REFERENCE DRAWINGS					

**NOTES:**

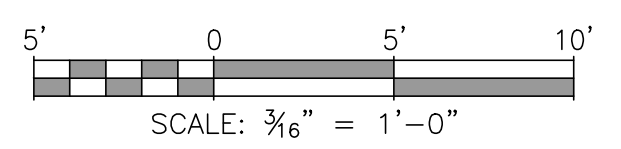
- SEE DRAWING 4484-G2 FOR THE ELECTRICAL DRAWING INDEX.
- SEE DRAWING 4484-E1 FOR THE ELECTRICAL GENERAL NOTES, LEGENDS AND THE ELECTRICAL GENERAL SCOPE OF WORK.
- SEE DRAWING 4484-E8 FOR CONDUIT AND CABLE RISER DIAGRAMS.
- PULL SEPARATE GROUND WIRE FOR EACH GROUP/SET OF PHASE CONDUCTORS.
- EXISTING FENCE AND GROUND GRID MAY NEED TO BE ADJUSTED TO FIT THE PULL BOX AND DUCTBANK STUBUP LOCATION INSIDE THE SUBSTATION 5 YARD. MAINTAIN GROUNDING GRID BY REROUTING AND RECONNECTING IF NECESSARY.
- WEATHERSTOP: PROVIDE AN APPROVED WEATHERSTOP SEAL SYSTEM TO PREVENT THE INGRESS OF WATER INTO THE SWITCHBOARD. CONTRACTOR TO SUBMIT THE METHOD OF SEALING FOR APPROVAL BEFORE PURCHASE AND INSTALLATION.



**EXISTING SUBSTATION 5 LAYOUT**  
3/16"=1'-0"



**DETAIL**  
1  
E13/E13  
N.T.S.



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO.

APMT PHASE IV YARD EXPANSION  
EXISTING SUBSTATION 5  
DUCTBANK AND CONDUIT DETAILS

FOR: ALABAMA PORT AUTHORITY

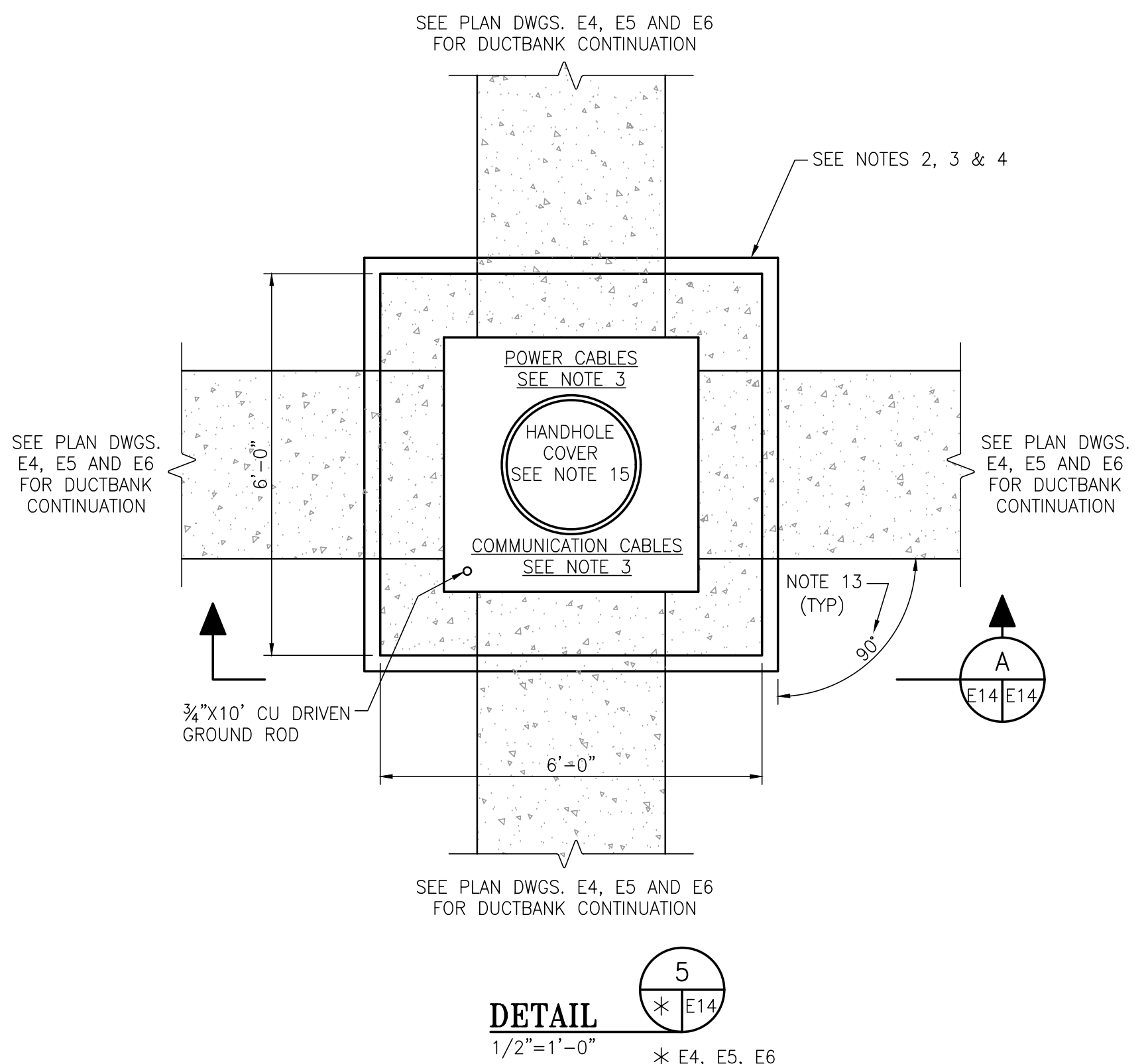
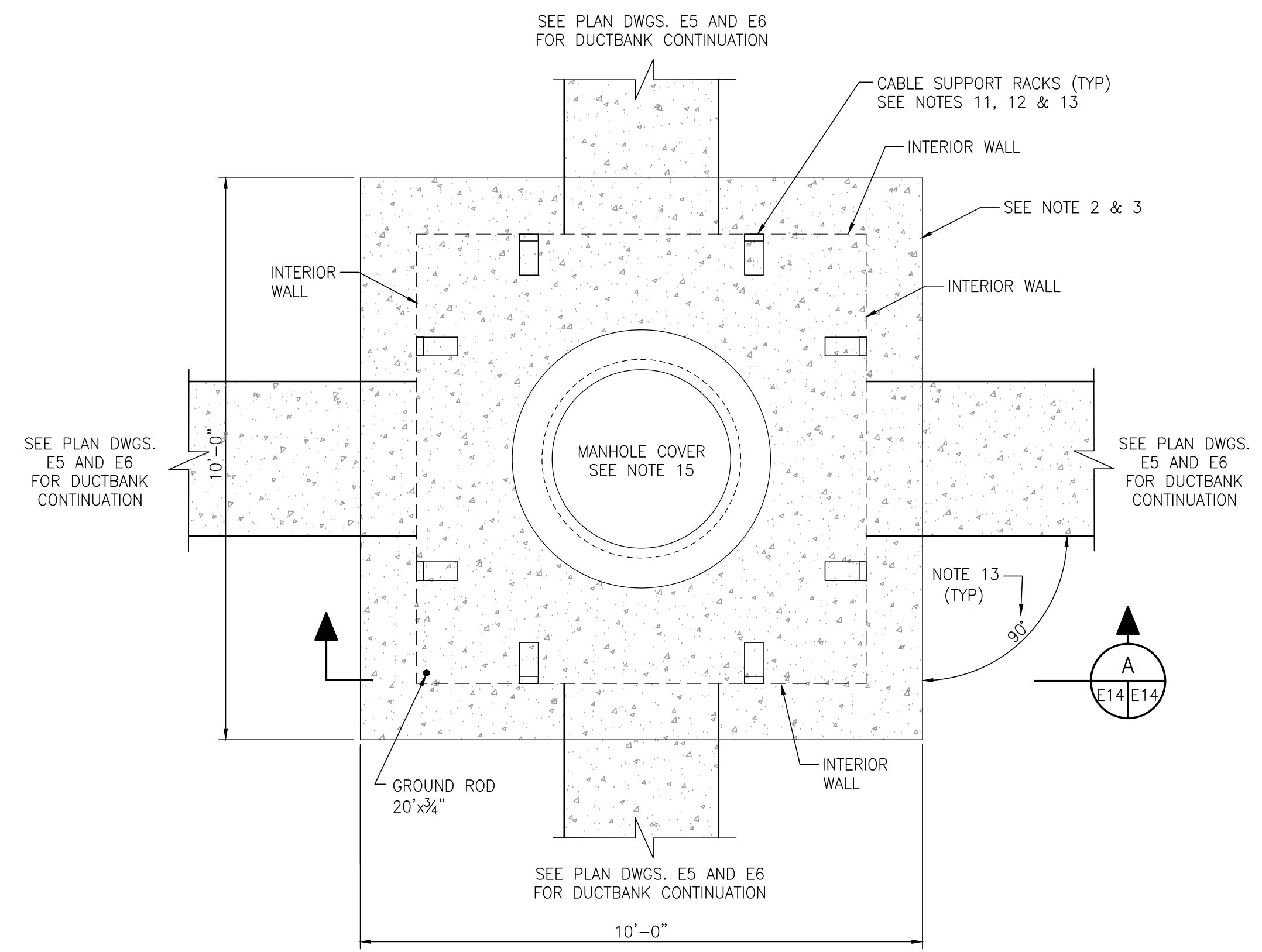
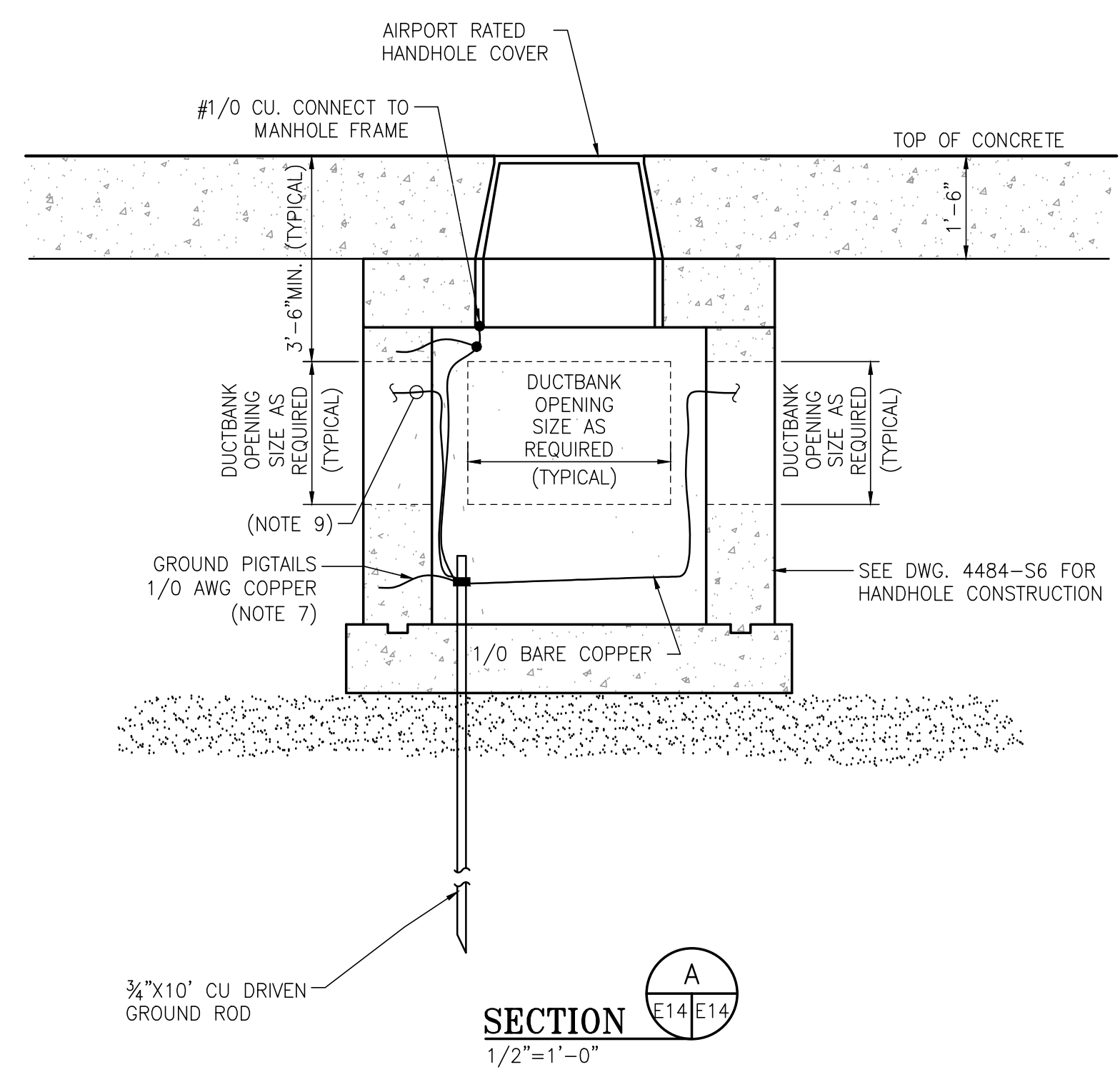
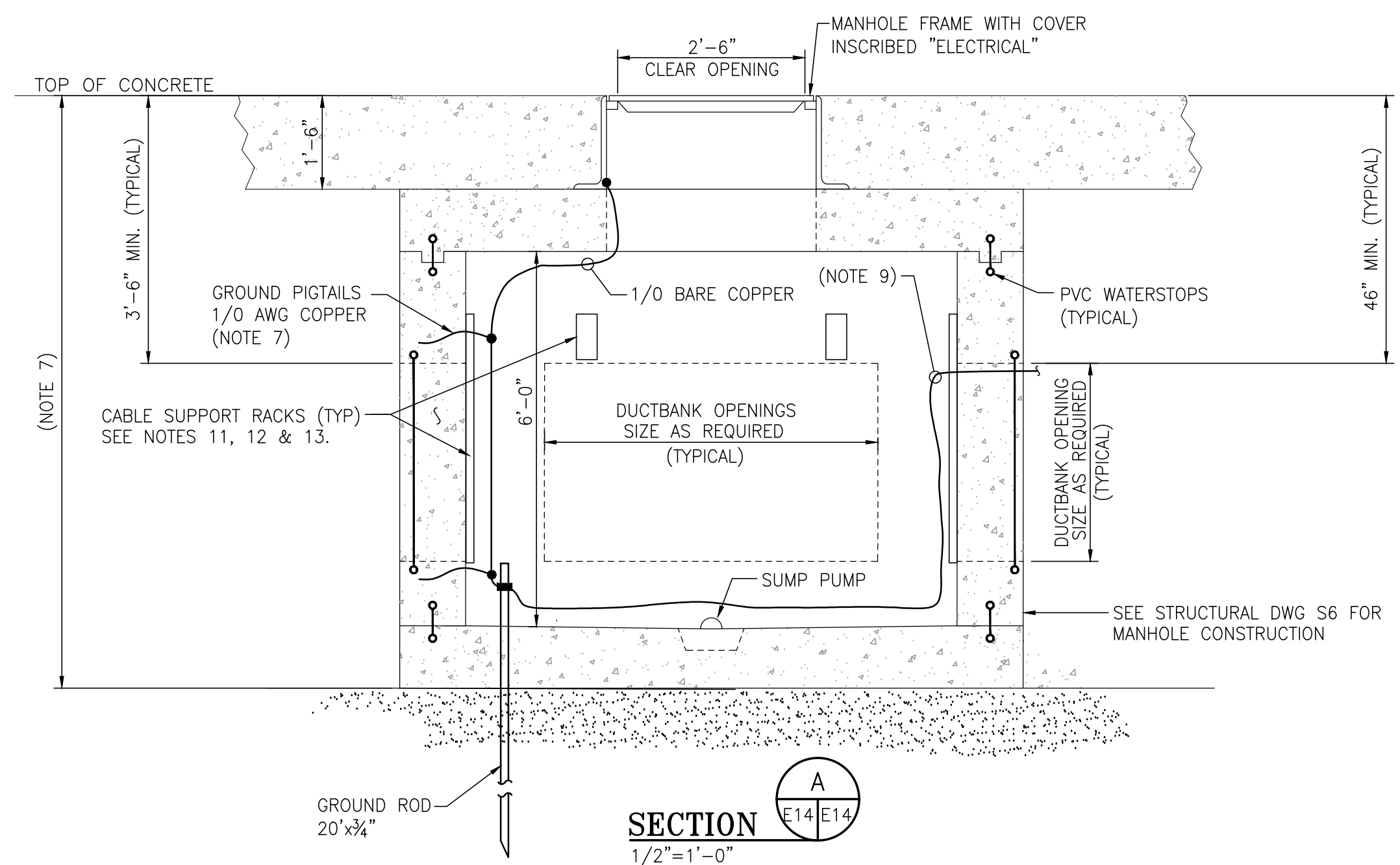
PROJECT NO: 4484 | DWG NO: E13 | REV: A



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DRAWN: WMB | CK'D: MED | APP'D: RSG | DATE: 04/19/22 | SCALE: NONE

NO.	REVISION	DRAWN	CK'D	APP'D	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

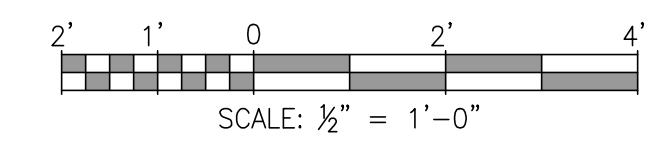


**NOTES:**

- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- MANHOLE AND HANDHOLE MAY BE PRECAST OR POURED IN PLACE TYPE PROVIDED ALL ELECTRICAL INSTALLATION REQUIREMENTS INDICATED ON THE DETAIL ARE SATISFIED. SEE STRUCTURAL DRAWING 4484-S6 FOR MANHOLE CONSTRUCTION DETAILS.
- COMMUNICATIONS AND POWER WIRING SHALL BE PERMANENTLY LABELED AND ROUTED SEPARATELY IN MANHOLES AND HANDHOLES.
- FOR HANDHOLES WHERE BOTH POWER AND COMMUNICATIONS CABLES ARE PRESENT, NON-METALLIC PARTITIONS OR RACEWAYS ARE TO BE INSTALLED TO SEGREGATE POWER AND COMMUNICATIONS.
- CONTRACTOR SHALL INSTALL A GROUND LOOP SYSTEM IN EACH MANHOLE AND CONNECT MANHOLE INSERTS, PULL RINGS, REBAR, AND ANY OTHER METAL STRUCTURE TO THE GROUND LOOP SYSTEM. GROUND LOOP SYSTEM SHALL BE #1/0 AWG BARE CONDUCTOR CONNECTED TO THE MANHOLE GROUND ROD.
- SEE ELECTRICAL SPECIFICATIONS SECTION 16375 FOR CABLE RACKS, PULLING IRONS AND GROUNDING INSTALLATION REQUIREMENTS.
- ONE GROUNDING PIGTAIL IS REQUIRED FOR EACH MANHOLE SECTOR. A MINIMUM OF TWO PIGTAILS IS REQUIRED PER MANHOLE. SEE SPECIFICATION 16060 FOR GENERAL GROUNDING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE OVERALL HEIGHT MATCHES FINISHED GRADE AT THE MANHOLE LOCATION. IF A PRECAST MANHOLE WILL NOT MEET THE GRADE REQUIREMENTS WHILE MAINTAINING A 6'-0" CLEARANCE INSIDE THE MANHOLE, A POURED-IN-PLACE CONSTRUCTION SHALL BE USED TO MAINTAIN A 6'-0" CLEARANCE INSIDE THE MANHOLE.
- GROUNDING IN MANHOLES SHALL TIE INTO THE DUCTBANK GROUNDING SYSTEM ENTERING AND EXITING THE MANHOLE.
- REFERENCE DRAWINGS 4484-E4, E5 AND E6 FOR THE LOCATION AND SIZE OF DUCTBANK PENETRATIONS TO EACH POWER AND COMMUNICATIONS MANHOLE AND HANDHOLE.
- CONTRACTOR TO INSTALL CABLE RACKS IN MANHOLES. CABLE RACKS ARE NOT INTENDED TO OCCUPY MANHOLE WALL SPACE WHERE DUCTBANK AND CONDUIT PENETRATIONS CLAIM THE AVAILABLE WALL SPACE.
- HEAVY DUTY NON-METALLIC CABLE RACKS SHALL BE PROVIDED AS FABRICATED BY UDI (UNDERGROUND DEVICES, INC.) OR ENGINEER APPROVED EQUAL. THE RACK SHALL ALLOW FOR COMPLETE VARIABILITY OF CABLE SUPPORT ARMS AND SIZES. THE NUMBER OF SUPPORTS SHALL BE AS REQUIRED BY THE NUMBER OF CABLES IN EACH MANHOLE/HANDHOLE.
- REFERENCE THE FOLLOWING UDI (UNDERGROUND DEVICES, INC.) CATALOG INFORMATION SHEETS FOR DEVICE INFORMATION:
 

120292BD (9-30-10)	CABLE RACK MOUNTING HARDWARE
111391AD	CABLE RACK LOAD CARRYING CAPACITY
102589AB	CABLE RACK LOAD VS DEFLECTION DATA
123191AJ (9-30-10)	CABLE RACK GUIDE SPECIFICATION
121603AB (2-5-04)	CABLE RACK TECH DATA & INSTALLATION INSTRUCTIONS
- ALL DUCTBANKS TO ENTER MANHOLES/HANDHOLES AT 90° PERPENDICULAR TO EXTERIOR WALLS UNDERGROUND.
- DETAILS 4 AND 5 ON THIS DRAWING APPLY TO THE FOLLOWING MANHOLES, HANDHOLES, AND COMMUNICATIONS HANDHOLES:

- DETAIL 4**  
MH33, MH34, MH34A, MH36, MH37, MH40, MH40A AND (FUTURE MH39 AND MH39A)  
MANHOLE COVER LIDS TO BE MARKED "ELECTRICAL"
- DETAIL 5**  
CM33, CM34, CM34A, CM36, CM37, CM40, CM40A AND (FUTURE CM39 AND CM39A)  
HANDHOLE COVER LIDS TO BE MARKED "COMMUNICATIONS"
- DETAIL 5**  
HH21C, HH33, HH34A, HH34B, HH34C, HH35, HH37, HH38, HH39B, HH39C, HH40, HH40A, HH40B, HH40C, HH41, HH42, HH43 AND (FUTURE HH-39A)  
HANDHOLE COVER LIDS TO BE MARKED "ELECTRICAL/COMMUNICATIONS"



**DETAIL 4**  
1/2"=1'-0"  
\* E4, E5

NOTE:  
SEE DRAWING 4484-E8 FOR POWER CONDUIT RISER DIAGRAM.

**DETAIL 5**  
1/2"=1'-0"  
\* E4, E5, E6

NOTE:  
SEE DRAWING 4484-E9 FOR COMMUNICATIONS CONDUIT RISER DIAGRAM.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
POWER AND COMMUNICATIONS  
TYPICAL MANHOLE AND HANDHOLE DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: E14 REV: A



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A	ISSUED FOR BID	04/05/24	WMB	MED	RSG
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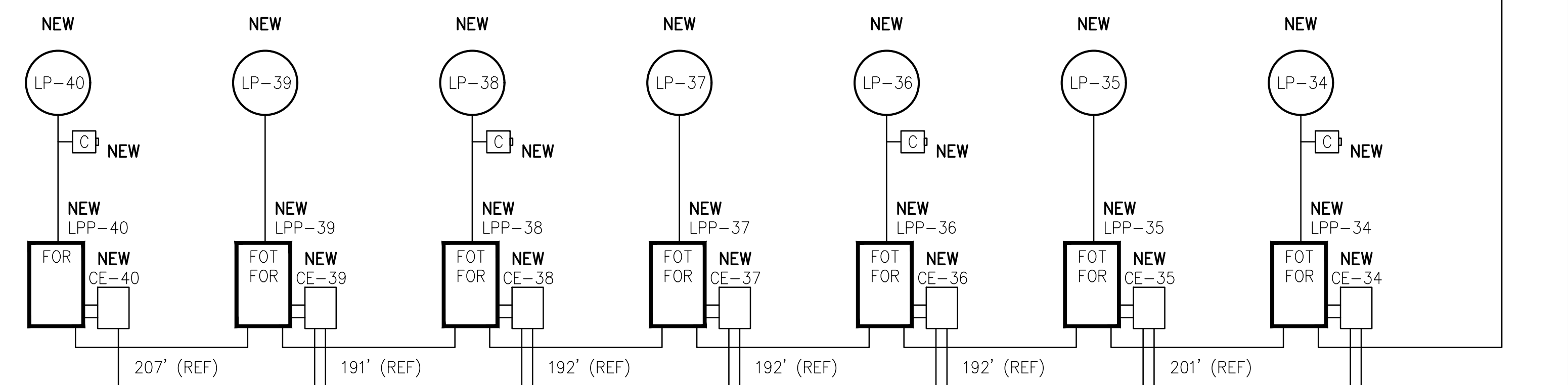
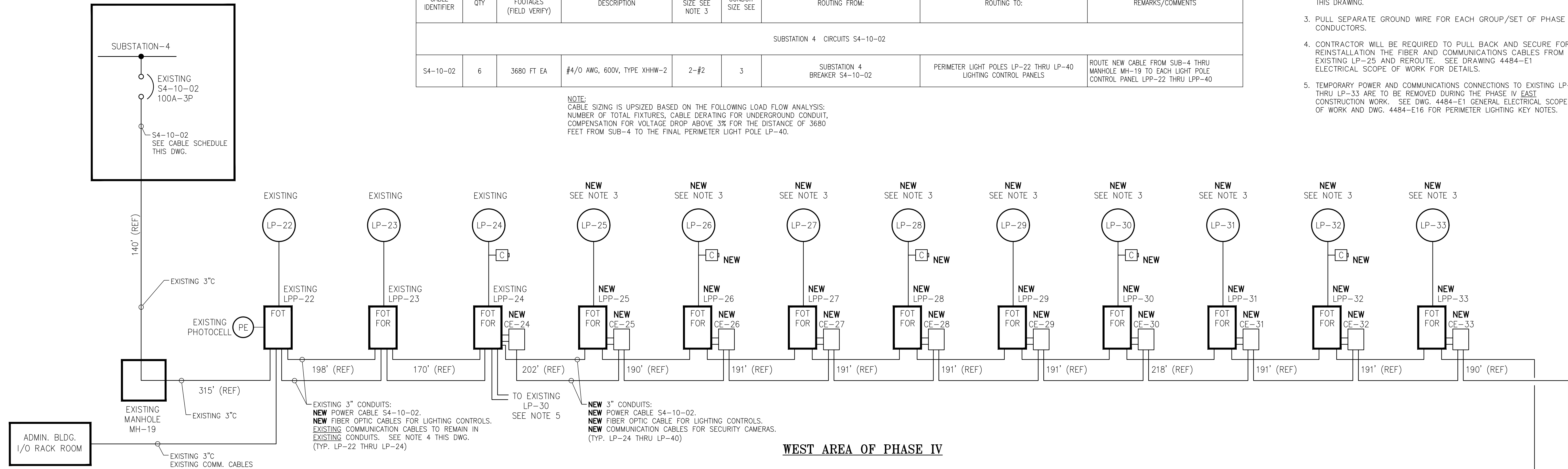
PERIMETER LIGHTING CABLE SCHEDULE

CABLE IDENTIFIER	QTY	ESTIMATED FOOTAGES (FIELD VERIFY)	DESCRIPTION	GROUND SIZE SEE NOTE 3	CONDUIT SIZE SEE	ROUTING FROM:	ROUTING TO:	REMARKS/COMMENTS
SUBSTATION 4 CIRCUITS S4-10-02								
S4-10-02	6	3680 FT EA	#4/0 AWG, 600V, TYPE XHHW-2	2-#2	3	SUBSTATION 4 BREAKER S4-10-02	PERIMETER LIGHT POLES LP-22 THRU LP-40 LIGHTING CONTROL PANELS	ROUTE NEW CABLE FROM SUB-4 THRU MANHOLE MH-19 TO EACH LIGHT POLE CONTROL PANEL LPP-22 THRU LPP-40

NOTE:  
CABLE SIZING IS UPSIZED BASED ON THE FOLLOWING LOAD FLOW ANALYSIS:  
NUMBER OF TOTAL FIXTURES, CABLE DERATING FOR UNDERGROUND CONDUIT,  
COMPENSATION FOR VOLTAGE DROP ABOVE 3% FOR THE DISTANCE OF 3680 FEET FROM SUB-4 TO THE FINAL PERIMETER LIGHT POLE LP-40.

NOTES:

- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- REMOVE EXISTING POWER CABLES S4-09-02 AND S4-10-02 THAT ARE TO BE REPLACED WITH THE SIZE AND TYPE AS LISTED IN THE CABLE SCHEDULE THIS DRAWING.
- PULL SEPARATE GROUND WIRE FOR EACH GROUP/SET OF PHASE CONDUCTORS.
- CONTRACTOR WILL BE REQUIRED TO PULL BACK AND SECURE FOR REINSTALLATION THE FIBER AND COMMUNICATIONS CABLES FROM EXISTING LP-25 AND REROUTE. SEE DRAWING 4484-E1 ELECTRICAL SCOPE OF WORK FOR DETAILS.
- TEMPORARY POWER AND COMMUNICATIONS CONNECTIONS TO EXISTING LP-30 THRU LP-33 ARE TO BE REMOVED DURING THE PHASE IV EAST CONSTRUCTION WORK. SEE DWG. 4484-E1 GENERAL ELECTRICAL SCOPE OF WORK AND DWG. 4484-E16 FOR PERIMETER LIGHTING KEY NOTES.



LEGEND:

- CAMERA EQUIPMENT
- PHOTO CELL
- FIBER OPTIC TRANSMITTER
- FIBER OPTIC RECEIVER
- S4-10-02 SUB-4 CIRCUIT 10-02
- COMMUNICATIONS ENCLOSURE

PERIMETER LIGHTING RISER DIAGRAM - OPTION - 1  
ALL LIGHT POLES ON SUB-4 FOR BACKUP POWER BY SUB-4 GENERATOR



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO.

APMT PHASE IV YARD EXPANSION  
PERIMETER LIGHTING POWER AND COMMUNICATIONS  
CONDUIT RISER DIAGRAM WITH CABLE SCHEDULE

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: E15 | REV: A



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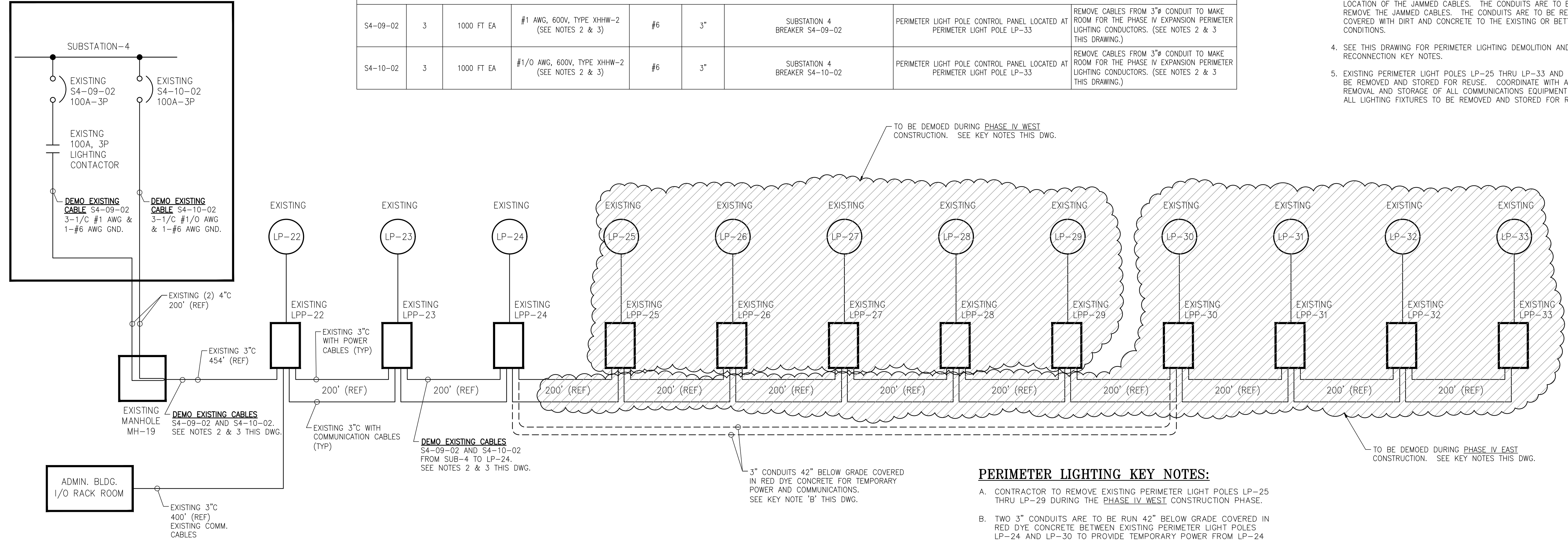
ISSUED FOR BID: 04/05/24  
DRAWN: WMB | CK'D: MED | APP'D: RSG  
DATE: 02/07/23 | SCALE: NONE

STATION 4 - EXISTING PERIMETER LIGHTING CABLE SCHEDULE

CABLE IDENTIFIER	QTY	ESTIMATED FOOTAGES FIELD VERIFY	DESCRIPTION	GROUND SIZE	CONDUIT SIZE	ROUTING FROM:	ROUTING TO:	REMARKS/COMMENTS
SUBSTATION 4 CIRCUITS S4-09-02 AND S4-10-02								
S4-09-02	3	1000 FT EA	#1 AWG, 600V, TYPE XHHW-2 (SEE NOTES 2 & 3)	#6	3"	SUBSTATION 4 BREAKER S4-09-02	PERIMETER LIGHT POLE CONTROL PANEL LOCATED AT PERIMETER LIGHT POLE LP-33	REMOVE CABLES FROM 3" CONDUIT TO MAKE ROOM FOR THE PHASE IV EXPANSION PERIMETER LIGHTING CONDUCTORS. (SEE NOTES 2 & 3 THIS DRAWING.)
S4-10-02	3	1000 FT EA	#1/0 AWG, 600V, TYPE XHHW-2 (SEE NOTES 2 & 3)	#6	3"	SUBSTATION 4 BREAKER S4-10-02	PERIMETER LIGHT POLE CONTROL PANEL LOCATED AT PERIMETER LIGHT POLE LP-33	REMOVE CABLES FROM 3" CONDUIT TO MAKE ROOM FOR THE PHASE IV EXPANSION PERIMETER LIGHTING CONDUCTORS. (SEE NOTES 2 & 3 THIS DRAWING.)

NOTES:

- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- REMOVE EXISTING POWER CABLES S4-09-02 AND S4-10-02. TAKE CARE NOT TO DAMAGE THE EXISTING CONDUITS DURING CABLE REMOVAL. THESE CONDUITS ARE TO BE REUSED FOR NEW POWER CABLES. SEE DRAWING 4484-E15 FOR THE NEW CABLE INSTALLATION CABLE SCHEDULE.
- IF REQUIRED: IF CABLES ARE DETERMINED TO BE JAMMED IN THE CONDUITS BELOW GRADE THEN THE CONTRACTOR IS RESPONSIBLE FOR SAW CUTTING THE CONCRETE PAVEMENT AND DIGGING BELOW GRADE TO IDENTIFY THE LOCATION OF THE JAMMED CABLES. THE CONDUITS ARE TO BE CUT TO REMOVE THE JAMMED CABLES. THE CONDUITS ARE TO BE REPAIRED AND COVERED WITH DIRT AND CONCRETE TO THE EXISTING OR BETTER CONDITIONS.
- SEE THIS DRAWING FOR PERIMETER LIGHTING DEMOLITION AND RECONNECTION KEY NOTES.
- EXISTING PERIMETER LIGHT POLES LP-25 THRU LP-33 AND EQUIPMENT TO BE REMOVED AND STORED FOR REUSE. COORDINATE WITH APMT FOR THE REMOVAL AND STORAGE OF ALL COMMUNICATIONS EQUIPMENT AND CAMERAS. ALL LIGHTING FIXTURES TO BE REMOVED AND STORED FOR REUSE.



PERIMETER LIGHTING KEY NOTES:

- CONTRACTOR TO REMOVE EXISTING PERIMETER LIGHT POLES LP-25 THRU LP-29 DURING THE PHASE IV WEST CONSTRUCTION PHASE.
- TWO 3" CONDUITS ARE TO BE RUN 42" BELOW GRADE COVERED IN RED DYE CONCRETE BETWEEN EXISTING PERIMETER LIGHT POLES LP-24 AND LP-30 TO PROVIDE TEMPORARY POWER FROM LP-24 TO LP-30 BEFORE LP-25 THRU LP-29 HAVE BEEN DISCONNECTED. PROVIDE #4/0 GROUND WIRE ABOVE CONCRETE AND CONNECT AT BOTH ENDS TO EXISTING GROUND SYSTEM.
- EXISTING #1 AND #1/0 AWG CONDUCTORS ARE TO BE EXTENDED FROM EXISTING LP-30 TO THE EXISTING LP-24 WHENEVER EXISTING LP-25 THRU LP-29 POLES ARE DISCONNECTED AND REMOVED FROM SERVICE.
- EXISTING LP-30 THRU LP-33 WILL REMAIN CONNECTED TO EXISTING LP-24 TEMPORARILY UNTIL THE PHASE IV EAST PROJECT CONSTRUCTION PHASE OF WORK REQUIRES LP-30 THRU LP-33 TO BE REMOVED.
- CONTRACTOR TO REVISE EXISTING PERIMETER LIGHTING CONTROL PANELS FOR LP-22, LP-23 AND LP-24 BEFORE CONNECTING THE NEW LP-25 PERIMETER LIGHT POLE TO THE EXISTING LP-24 LIGHTING CONTROL PANEL. SEE DRAWINGS 4484-E17 THRU 4484-E19 FOR WIRING AND CONTROL DIAGRAM MODIFICATIONS REQUIRED FOR EACH EXISTING PERIMETER LIGHT POLE LP-22, LP-23 AND LP-24.
- CONTRACTOR IS RESPONSIBLE FOR RECONNECTION OF FIBER OPTIC CABLES FROM LP-24 TO LP-30 AND PROVIDE ANY SPLICE BOOTS, SPLITTERS, TERMINATIONS, ETC. AS NEEDED TO RECONNECT FIBER OPTIC SERVICE.

EXISTING PERIMETER LIGHTING DEMOLITION



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO.

APMT PHASE IV YARD EXPANSION  
EXISTING PHASE 1 AREA PERIMETER LIGHTING  
DEMOLITION DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: E16 | REV: A



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DRAWN: WMB | CK'D: MED | APPD: RSG | DATE: 02/07/23 | SCALE: NONE

NOTES

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NO.

REVISION

DRAWN

CK'D

APPD

DATE

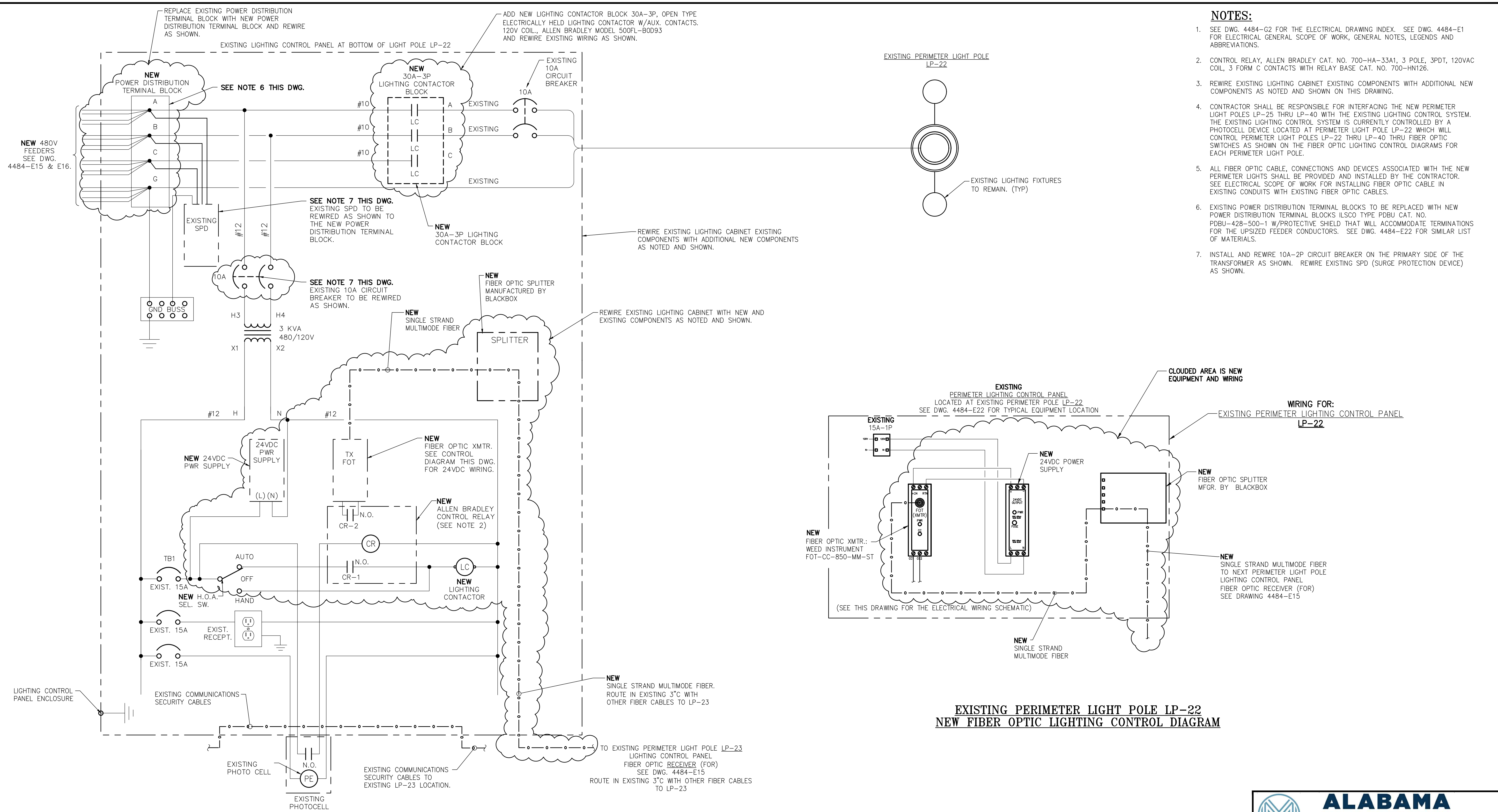
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CK'D: MED

APPD: RSG

DATE: 02/07/23

SCALE: NONE



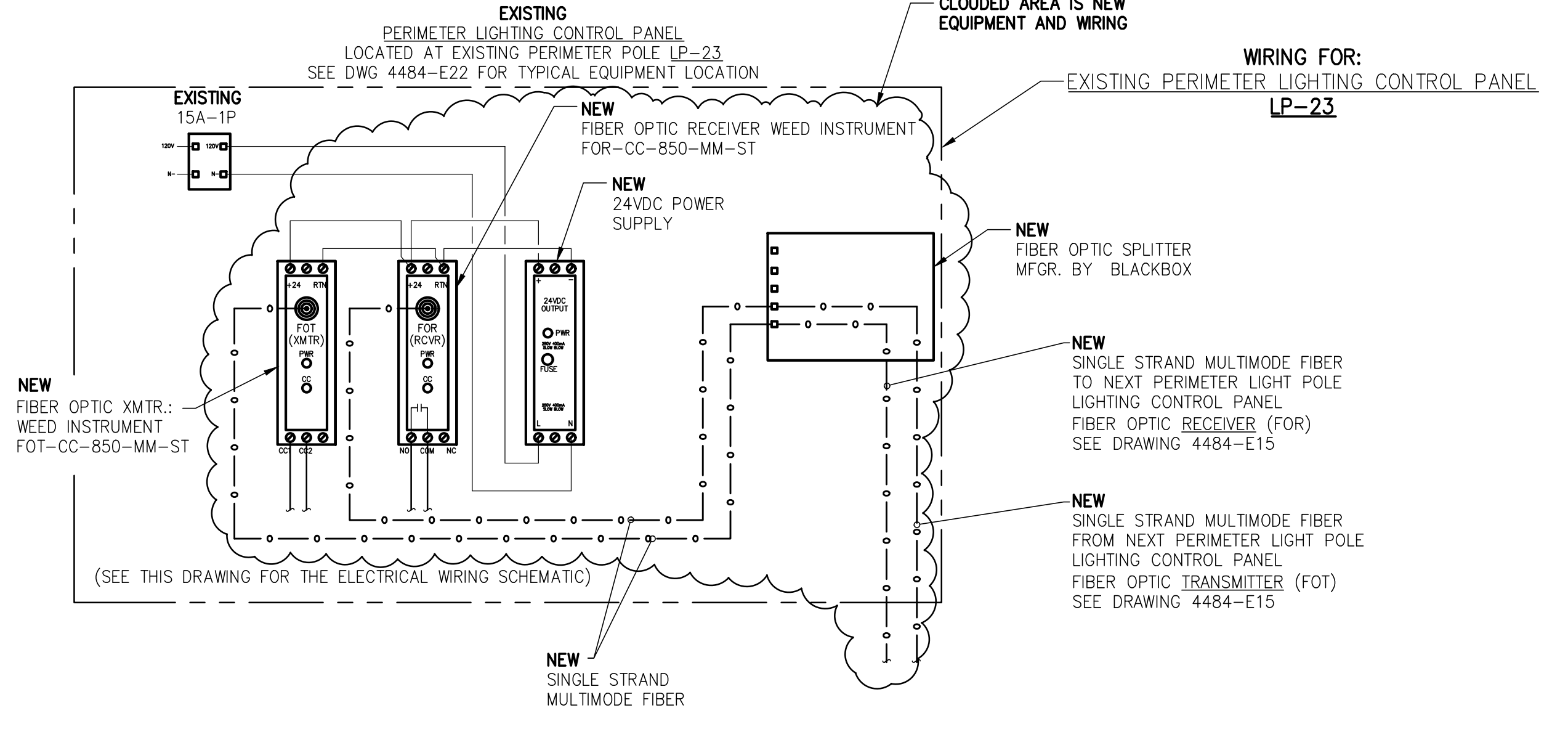
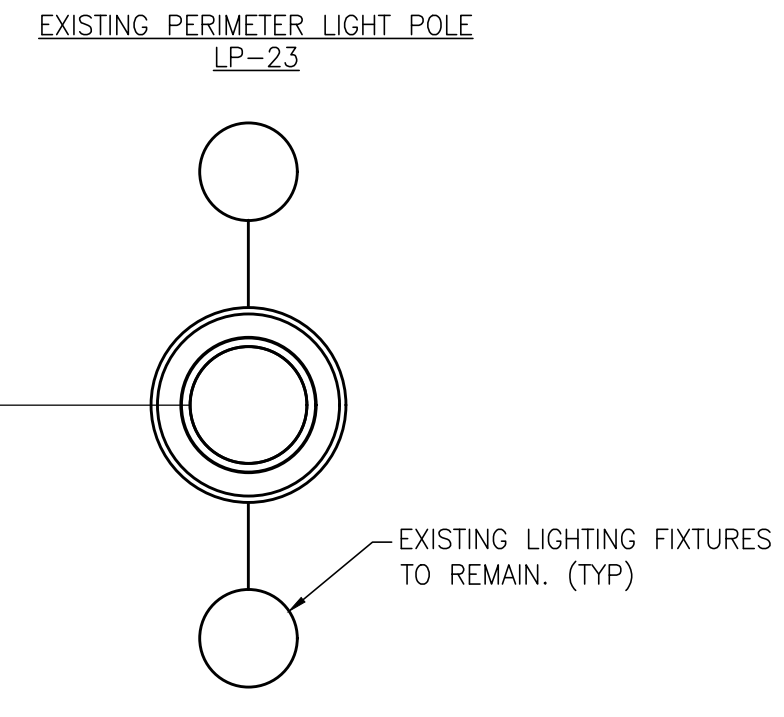
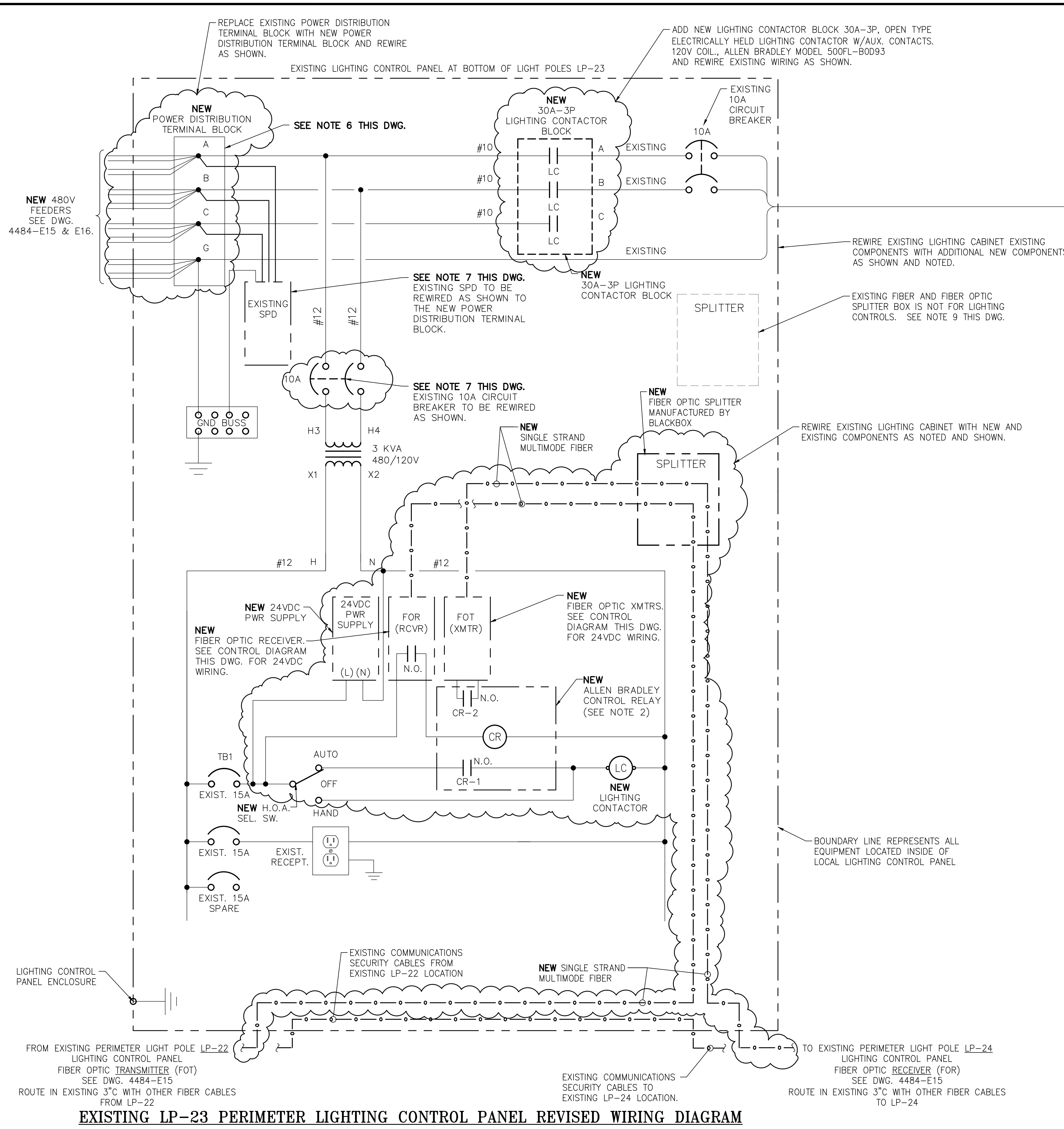
- NOTES:**
- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
  - CONTROL RELAY, ALLEN BRADLEY CAT. NO. 700-HA-33A1, 3 POLE, 3PDT, 120VAC COIL, 3 FORM C CONTACTS WITH RELAY BASE CAT. NO. 700-HN126.
  - REWIRE EXISTING LIGHTING CABINET EXISTING COMPONENTS WITH ADDITIONAL NEW COMPONENTS AS NOTED AND SHOWN ON THIS DRAWING.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 WITH THE EXISTING LIGHTING CONTROL SYSTEM. THE EXISTING LIGHTING CONTROL SYSTEM IS CURRENTLY CONTROLLED BY A PHOTOCELL DEVICE LOCATED AT PERIMETER LIGHT POLE LP-22 WHICH WILL CONTROL PERIMETER LIGHT POLES LP-22 THRU LP-40 THRU FIBER OPTIC SWITCHES AS SHOWN ON THE FIBER OPTIC LIGHTING CONTROL DIAGRAMS FOR EACH PERIMETER LIGHT POLE.
  - ALL FIBER OPTIC CABLE, CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW PERIMETER LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. SEE ELECTRICAL SCOPE OF WORK FOR INSTALLING FIBER OPTIC CABLE IN EXISTING CONDUITS WITH EXISTING FIBER OPTIC CABLES.
  - EXISTING POWER DISTRIBUTION TERMINAL BLOCKS TO BE REPLACED WITH NEW POWER DISTRIBUTION TERMINAL BLOCKS ILSCO TYPE PDBU CAT. NO. PDBU-428-500-1 W/PROTECTIVE SHIELD THAT WILL ACCOMMODATE TERMINATIONS FOR THE UPSIZED FEEDER CONDUCTORS. SEE DWG. 4484-E22 FOR SIMILAR LIST OF MATERIALS.
  - INSTALL AND REWIRE 10A-2P CIRCUIT BREAKER ON THE PRIMARY SIDE OF THE TRANSFORMER AS SHOWN. REWIRE EXISTING SPD (SURGE PROTECTION DEVICE) AS SHOWN.

**EXISTING LP-22 PERIMETER LIGHTING CONTROL PANEL REVISED WIRING DIAGRAM**

**EXISTING PERIMETER LIGHT POLE LP-22 NEW FIBER OPTIC LIGHTING CONTROL DIAGRAM**

<p><b>ALABAMA PORT AUTHORITY</b> PORT OF MOBILE</p> <p>ASPA PROJECT NO: 11261 - TASK 1   ASPA DWG NO:</p>		APMT PHASE IV YARD EXPANSION	
		EXISTING PERIMETER LIGHT POLE LP-22 WIRING AND CONTROL DIAGRAM MODIFICATIONS	
FOR: ALABAMA PORT AUTHORITY		PROJECT NO: 4484   DWG NO: E17   REV: A	

NO.	REVISION	DATE	APPROVED	DATE	SCALE
A	ISSUED FOR BID	04/05/24	WMB	MED	RSG
<p style="text-align: right;"><b>APTIM PORT SERVICES, LLC</b></p> <p><small>THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.</small></p>					
<p>REFERENCE DRAWINGS: NO. REVISION DRAWN: WMB CK'D: MED APPD: RSG DATE: 12/14/22 SCALE: NONE</p>					



**NOTES:**

- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- CONTROL RELAY, ALLEN BRADLEY CAT. NO. 700-HA-33A1, 3 POLE, 3PDT, 120VAC COIL, 3 FORM C CONTACTS WITH RELAY BASE CAT. NO. 700-HN126.
- REWIRE EXISTING LIGHTING CABINET EXISTING COMPONENTS WITH ADDITIONAL NEW COMPONENTS AS NOTED AND SHOWN ON THIS DRAWING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 WITH THE EXISTING LIGHTING CONTROL SYSTEM. THE EXISTING LIGHTING CONTROL SYSTEM IS CURRENTLY CONTROLLED BY A PHOTOCELL DEVICE LOCATED AT PERIMETER LIGHT POLE LP-22 WHICH WILL CONTROL PERIMETER LIGHT POLES LP-22 THRU LP-40 THRU FIBER OPTIC SWITCHES AS SHOWN ON THE FIBER OPTIC LIGHTING CONTROL DIAGRAMS FOR EACH PERIMETER LIGHT POLE.
- ALL FIBER OPTIC CABLE, CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW PERIMETER LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. SEE ELECTRICAL SCOPE OF WORK FOR INSTALLING FIBER OPTIC CABLE IN EXISTING CONDUITS WITH EXISTING FIBER OPTIC CABLES.
- EXISTING POWER DISTRIBUTION TERMINAL BLOCKS TO BE REPLACED WITH NEW POWER DISTRIBUTION TERMINAL BLOCKS ILSCO TYPE PDBU CAT. NO. PDBU-428-500-1 W/PROTECTIVE SHIELD THAT WILL ACCOMMODATE TERMINATIONS FOR THE UPSIZED FEEDER CONDUCTORS. SEE DWG. 4484-E22 FOR SIMILAR LIST OF MATERIALS.
- INSTALL AND REWIRE 10A-2P CIRCUIT BREAKER ON THE PRIMARY SIDE OF THE TRANSFORMER AS SHOWN. REWIRE EXISTING SPD (SURGE PROTECTION DEVICE) AS SHOWN.
- POWER RECEPTACLE FOR CAMERA EQUIPMENT TO BE INSTALLED BY THIS CONTRACTOR IN THE COMMUNICATIONS ENCLOSURES LOCATED AT LIGHT POLES LP-24 THRU LP-40. CAMERA EQUIPMENT, UPS (UNINTERRUPTIBLE POWER SUPPLY), FIBER AND CONNECTIONS WILL BE INSTALLED BY OTHERS.
- EXISTING FIBER BOX SPLITTER IS FOR COMMUNICATIONS FIBER AND NOT FOR LIGHTING CONTROLS. COMMUNICATIONS FIBER RUNS THROUGH LP-22, LP-23 AND TERMINATES IN LP-24.

**EXISTING LP-23 PERIMETER LIGHTING CONTROL PANEL REVISED WIRING DIAGRAM**

**EXISTING PERIMETER LIGHT POLE LP-23  
NEW FIBER OPTIC LIGHTING CONTROL DIAGRAM**

**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE  
ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:



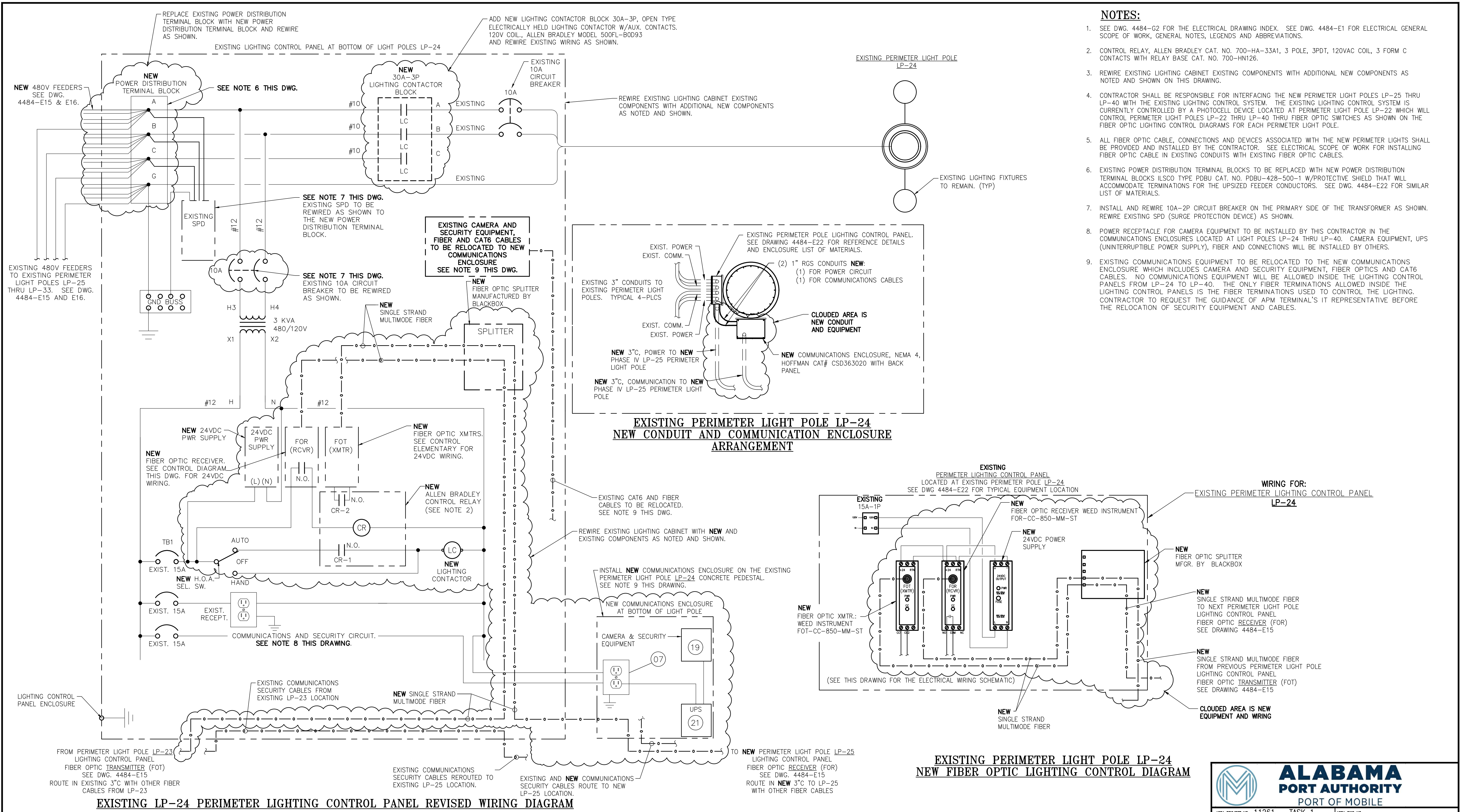
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APMT PHASE IV YARD EXPANSION  
EXISTING PERIMETER LIGHT POLE LP-23  
WIRING AND CONTROL DIAGRAM MODIFICATIONS

FOR: ALABAMA PORT AUTHORITY

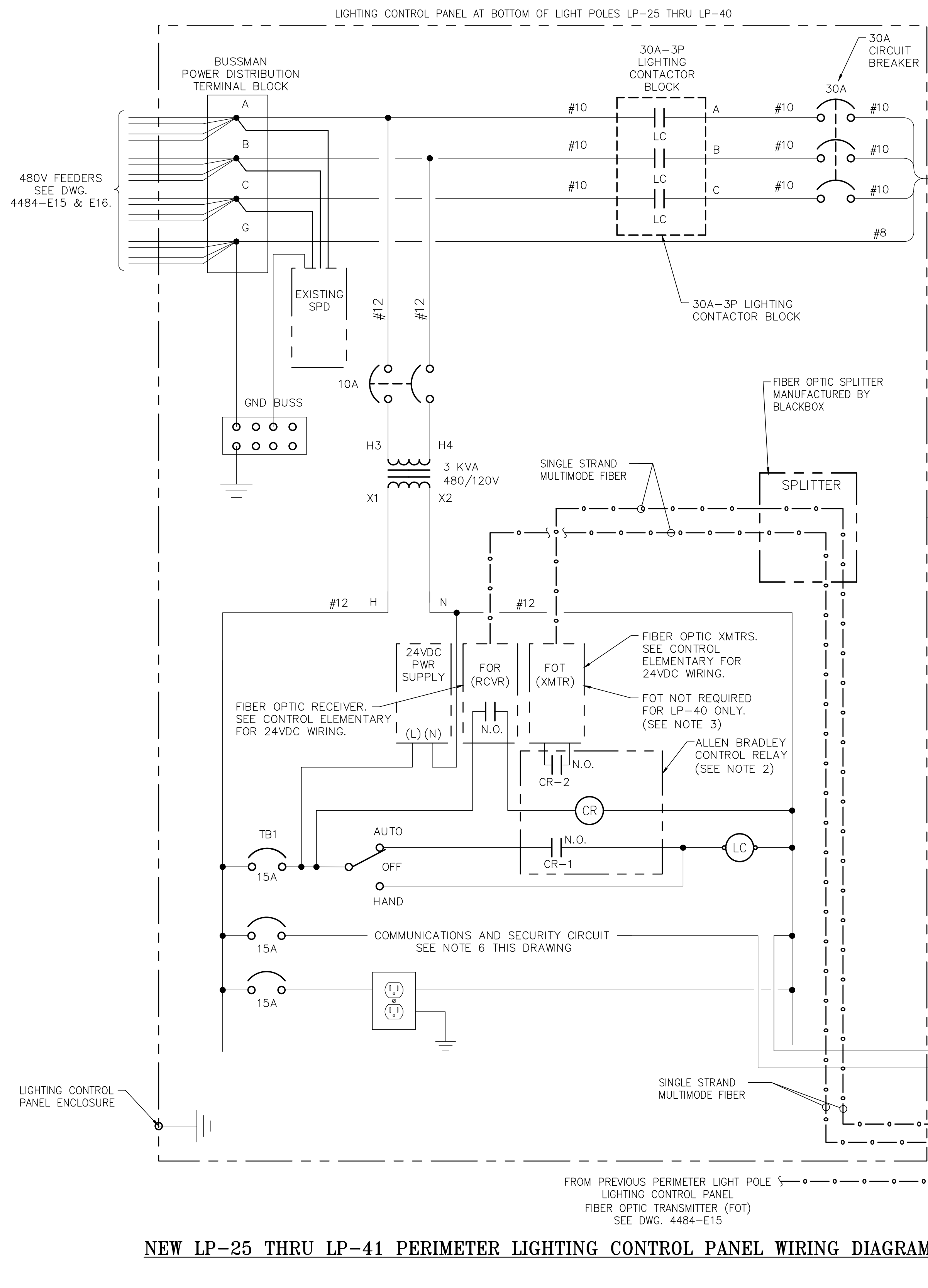
NO.	REVISION	DATE	APPD	CK'D	DRAWN
A	ISSUED FOR BID	04/05/24	RSG	MED	WMB
REFERENCE DRAWINGS					

PROJECT NO: 4484 | DWG NO: E18 | REV: A

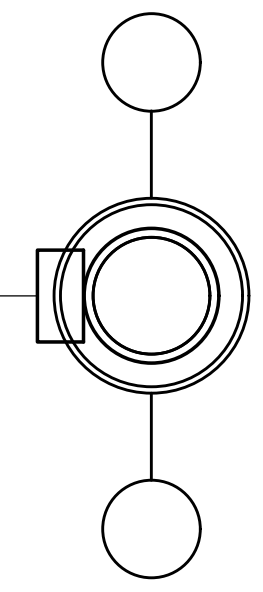


- NOTES:**
- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
  - CONTROL RELAY, ALLEN BRADLEY CAT. NO. 700-HA-33A1, 3 POLE, 3PDT, 120VAC COIL, 3 FORM C CONTACTS WITH RELAY BASE CAT. NO. 700-HN126.
  - REWIRE EXISTING LIGHTING CABINET EXISTING COMPONENTS WITH ADDITIONAL NEW COMPONENTS AS NOTED AND SHOWN ON THIS DRAWING.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 WITH THE EXISTING LIGHTING CONTROL SYSTEM. THE EXISTING LIGHTING CONTROL SYSTEM IS CURRENTLY CONTROLLED BY A PHOTOCELL DEVICE LOCATED AT PERIMETER LIGHT POLE LP-22 WHICH WILL CONTROL PERIMETER LIGHT POLES LP-22 THRU LP-40 THRU FIBER OPTIC SWITCHES AS SHOWN ON THE FIBER OPTIC LIGHTING CONTROL DIAGRAMS FOR EACH PERIMETER LIGHT POLE.
  - ALL FIBER OPTIC CABLE, CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW PERIMETER LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. SEE ELECTRICAL SCOPE OF WORK FOR INSTALLING FIBER OPTIC CABLE IN EXISTING CONDUITS WITH EXISTING FIBER OPTIC CABLES.
  - EXISTING POWER DISTRIBUTION TERMINAL BLOCKS TO BE REPLACED WITH NEW POWER DISTRIBUTION TERMINAL BLOCKS ILSCO TYPE PDBU CAT. NO. PDBU-428-500-1 W/PROTECTIVE SHIELD THAT WILL ACCOMMODATE TERMINATIONS FOR THE UPSIZED FEEDER CONDUCTORS. SEE DWG. 4484-E22 FOR SIMILAR LIST OF MATERIALS.
  - INSTALL AND REWIRE 10A-2P CIRCUIT BREAKER ON THE PRIMARY SIDE OF THE TRANSFORMER AS SHOWN. REWIRE EXISTING SPD (SURGE PROTECTION DEVICE) AS SHOWN.
  - POWER RECEPTACLE FOR CAMERA EQUIPMENT TO BE INSTALLED BY THIS CONTRACTOR IN THE COMMUNICATIONS ENCLOSURES LOCATED AT LIGHT POLES LP-24 THRU LP-40. CAMERA EQUIPMENT, UPS (UNINTERRUPTIBLE POWER SUPPLY), FIBER AND CONNECTIONS WILL BE INSTALLED BY OTHERS.
  - EXISTING COMMUNICATIONS EQUIPMENT TO BE RELOCATED TO THE NEW COMMUNICATIONS ENCLOSURE WHICH INCLUDES CAMERA AND SECURITY EQUIPMENT, FIBER OPTICS AND CAT6 CABLES. NO COMMUNICATIONS EQUIPMENT WILL BE ALLOWED INSIDE THE LIGHTING CONTROL PANELS FROM LP-24 TO LP-40. THE ONLY FIBER TERMINATIONS ALLOWED INSIDE THE LIGHTING CONTROL PANELS IS THE FIBER TERMINATIONS USED TO CONTROL THE LIGHTING. CONTRACTOR TO REQUEST THE GUIDANCE OF APM TERMINAL'S IT REPRESENTATIVE BEFORE THE RELOCATION OF SECURITY EQUIPMENT AND CABLES.

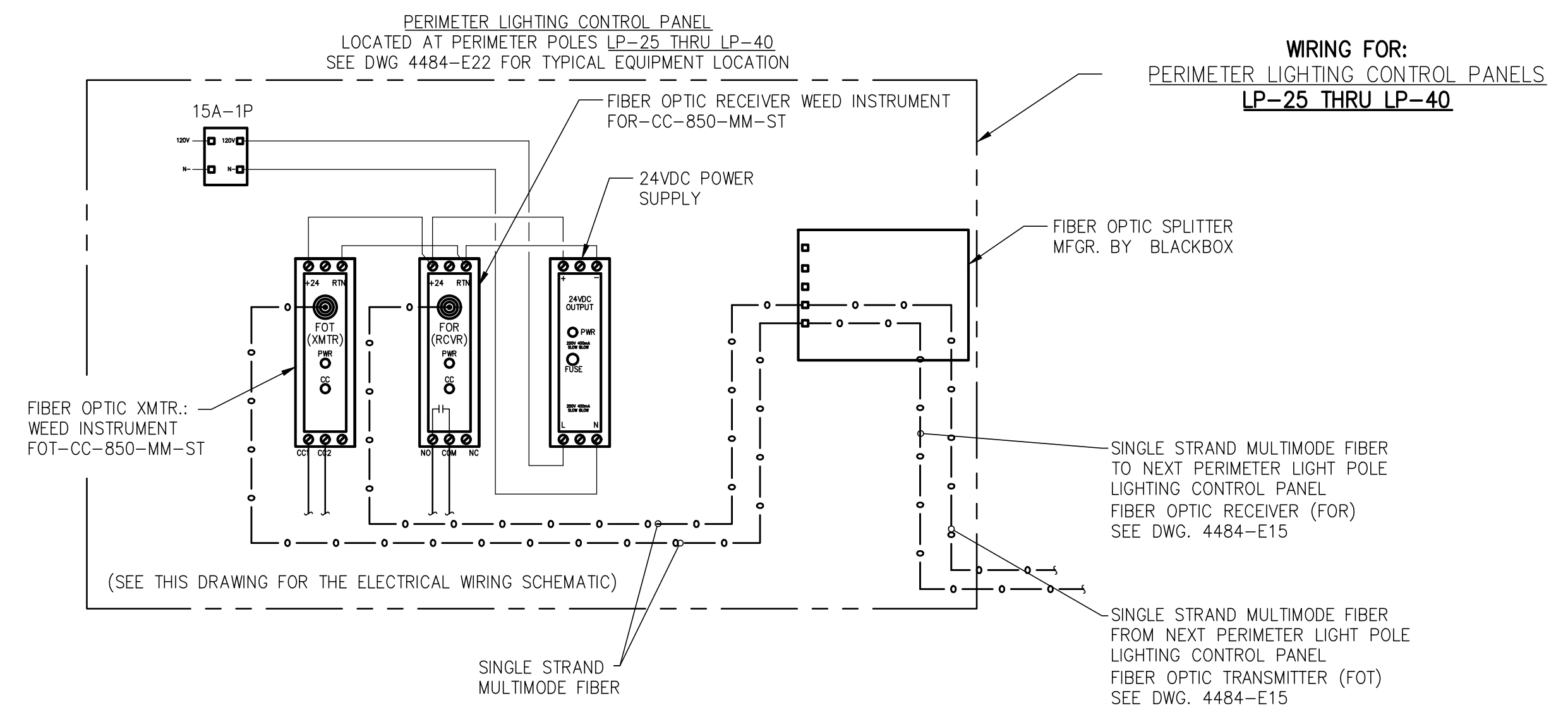
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												ASPA PROJECT NO: 11261 - TASK 1   ASPA DWG NO:	
												APMT PHASE IV YARD EXPANSION EXISTING PERIMETER LIGHT POLE LP-24 WIRING AND CONTROL DIAGRAM MODIFICATIONS	
												FOR: ALABAMA PORT AUTHORITY	
												PROJECT NO: 4484   DWG NO: E19   REV: A	
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												A ISSUED FOR BID   WMB MED RSG   04/05/24	
												DRAWN: WMB   CK'D: MED   APPD: RSG   DATE: 12/14/22   SCALE: NONE	
												REFERENCE DRAWINGS   NO.   REVISION	



NEW PERIMETER LIGHT POLES LP-25 THRU LP-41



- NOTES:**
- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
  - CONTROL RELAY, ALLEN BRADLEY CAT. NO. 700-HA-33A1, 3 POLE, 3PDT, 120VAC COIL, 3 FORM C CONTACTS WITH RELAY BASE CAT. NO. 700-HN126.
  - FIBER OPTIC TRANSMITTER NOT REQUIRED FOR PERIMETER LIGHT POLE LP-4
  - 01 LIGHTING CONTROL CABINET.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 WITH THE EXISTING LIGHTING CONTROL SYSTEM. THE EXISTING LIGHTING CONTROL SYSTEM IS CURRENTLY CONTROLLED BY A PHOTOCELL DEVICE LOCATED AT PERIMETER LIGHT POLE LP-22 WHICH WILL CONTROL PERIMETER LIGHT POLES LP-22 THRU LP-40 THRU FIBER OPTIC SWITCHES AS SHOWN ON THE FIBER OPTIC LIGHTING CONTROL DIAGRAMS FOR EACH PERIMETER LIGHT POLE.
  - ALL FIBER OPTIC CABLE, CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW PERIMETER LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
  - POWER RECEPTACLE FOR CAMERA EQUIPMENT TO BE INSTALLED BY THIS CONTRACTOR IN THE COMMUNICATIONS ENCLOSURES LOCATED AT LIGHT POLES LP-24 THRU LP-40. CAMERA EQUIPMENT, UPS (UNINTERRUPTIBLE POWER SUPPLY), FIBER AND CONNECTIONS WILL BE INSTALLED BY OTHERS.
  - SEE DWG. 4484-E22 LIST OF MATERIALS.



NEW LP-25 THRU LP-41 PERIMETER LIGHTING CONTROL PANEL WIRING DIAGRAM

NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 FIBER OPTIC LIGHTING CONTROL DIAGRAM

**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE  
ASPA PROJECT NO: 11261 - TASK 1 | ASPA DWG NO:

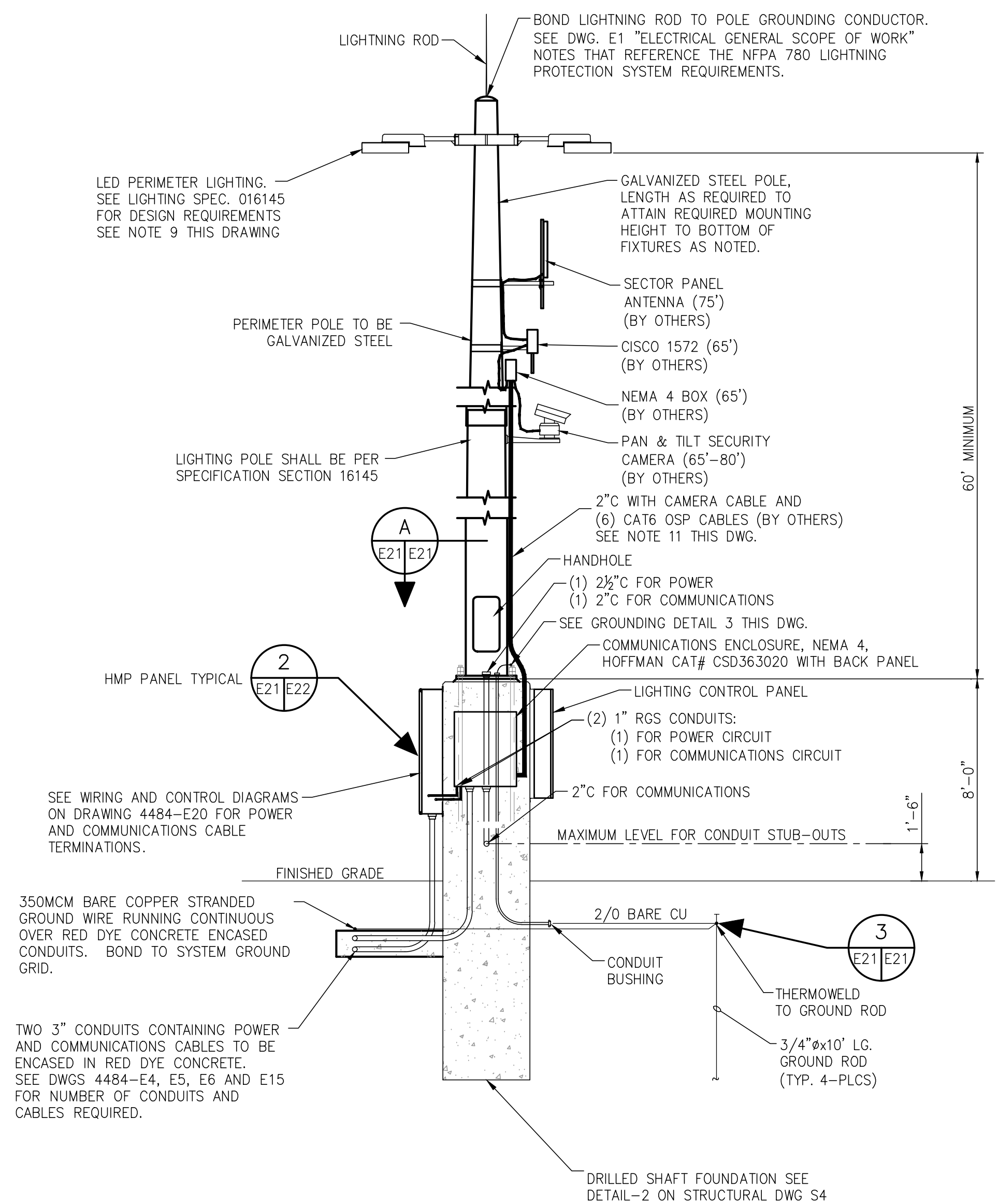
APMT PHASE IV YARD EXPANSION  
NEW PERIMETER LIGHT POLES LP-25 THRU LP-40 WIRING AND CONTROL DIAGRAM  
FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: E20 | REV: A



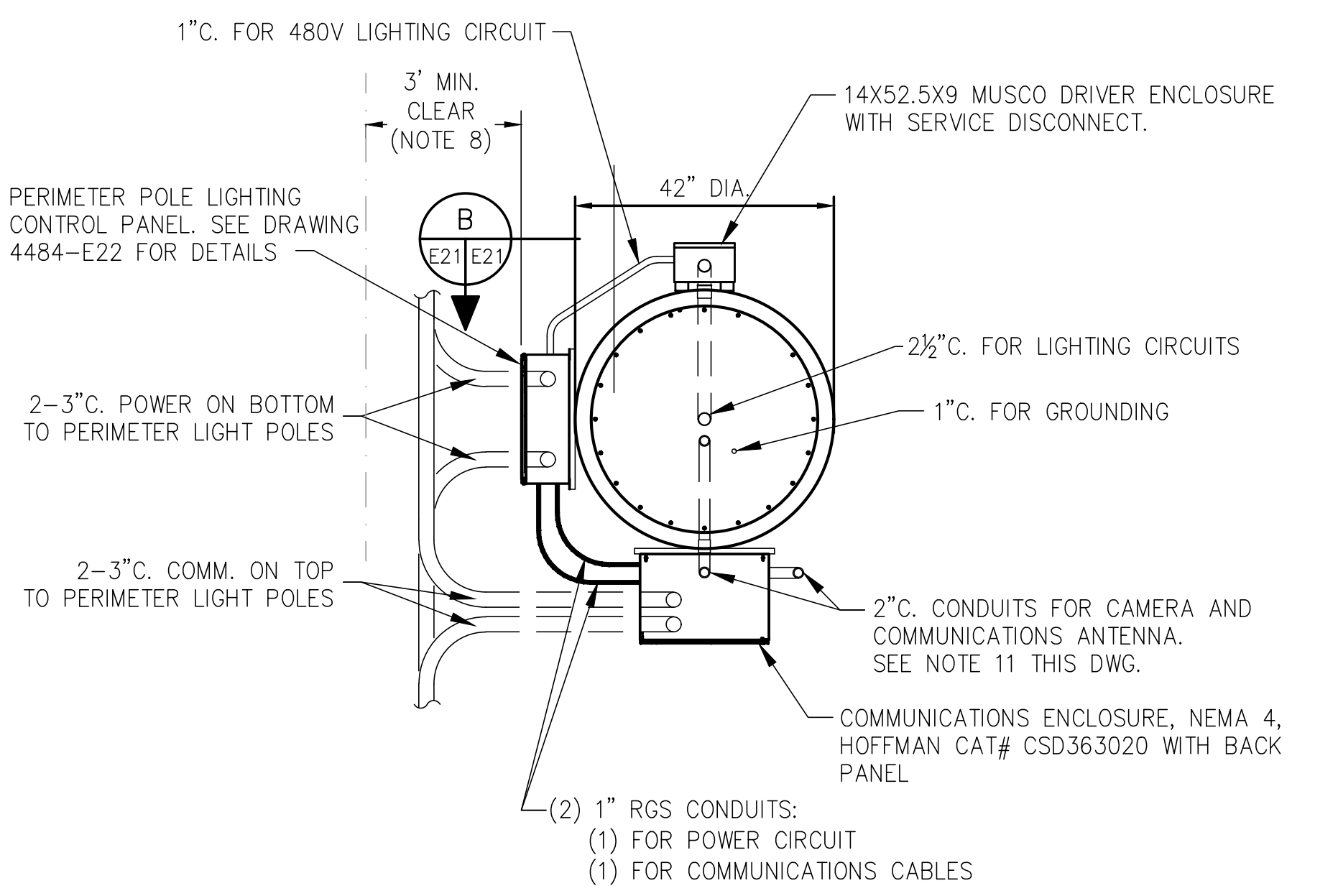
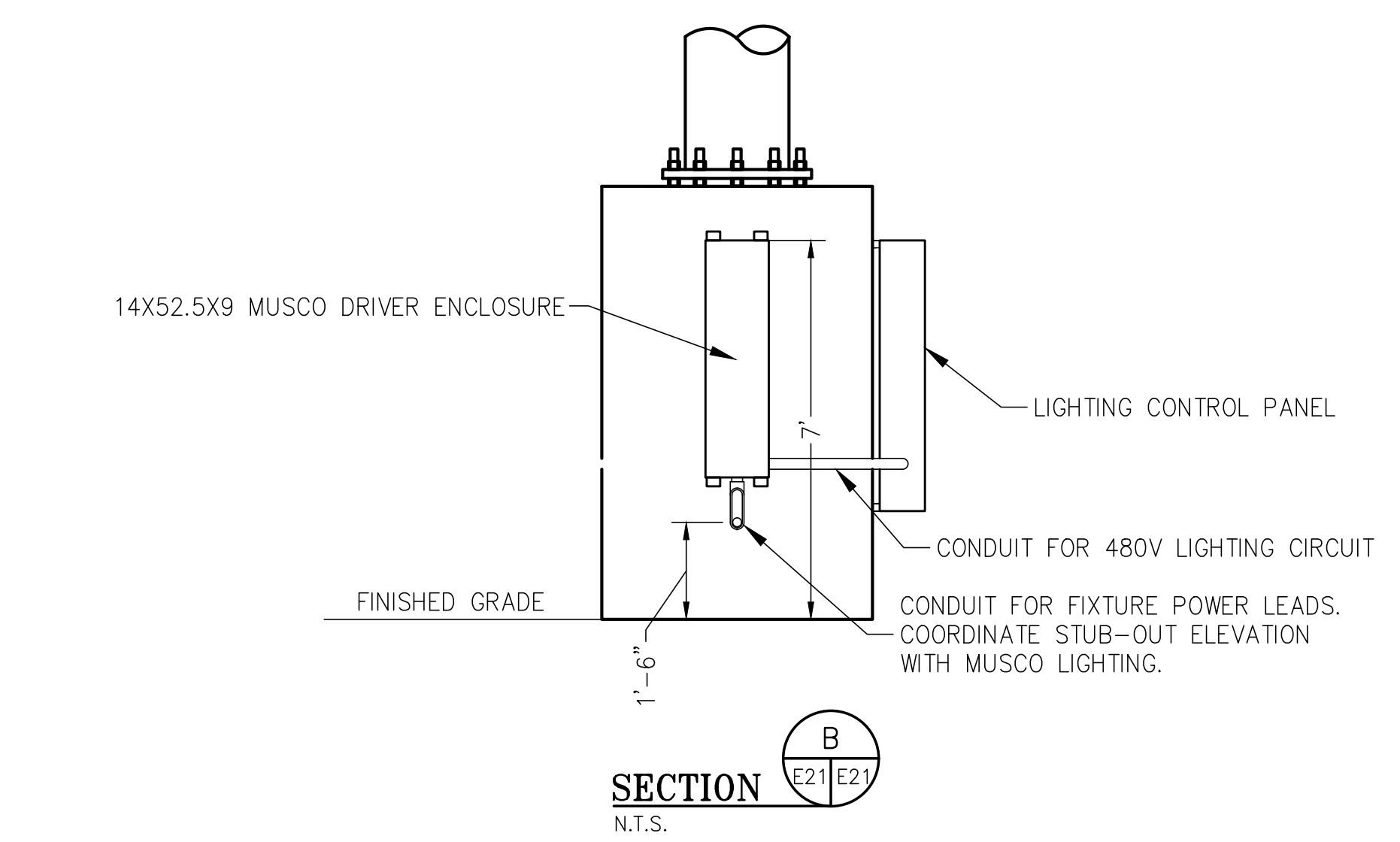
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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
REFERENCE DRAWINGS					



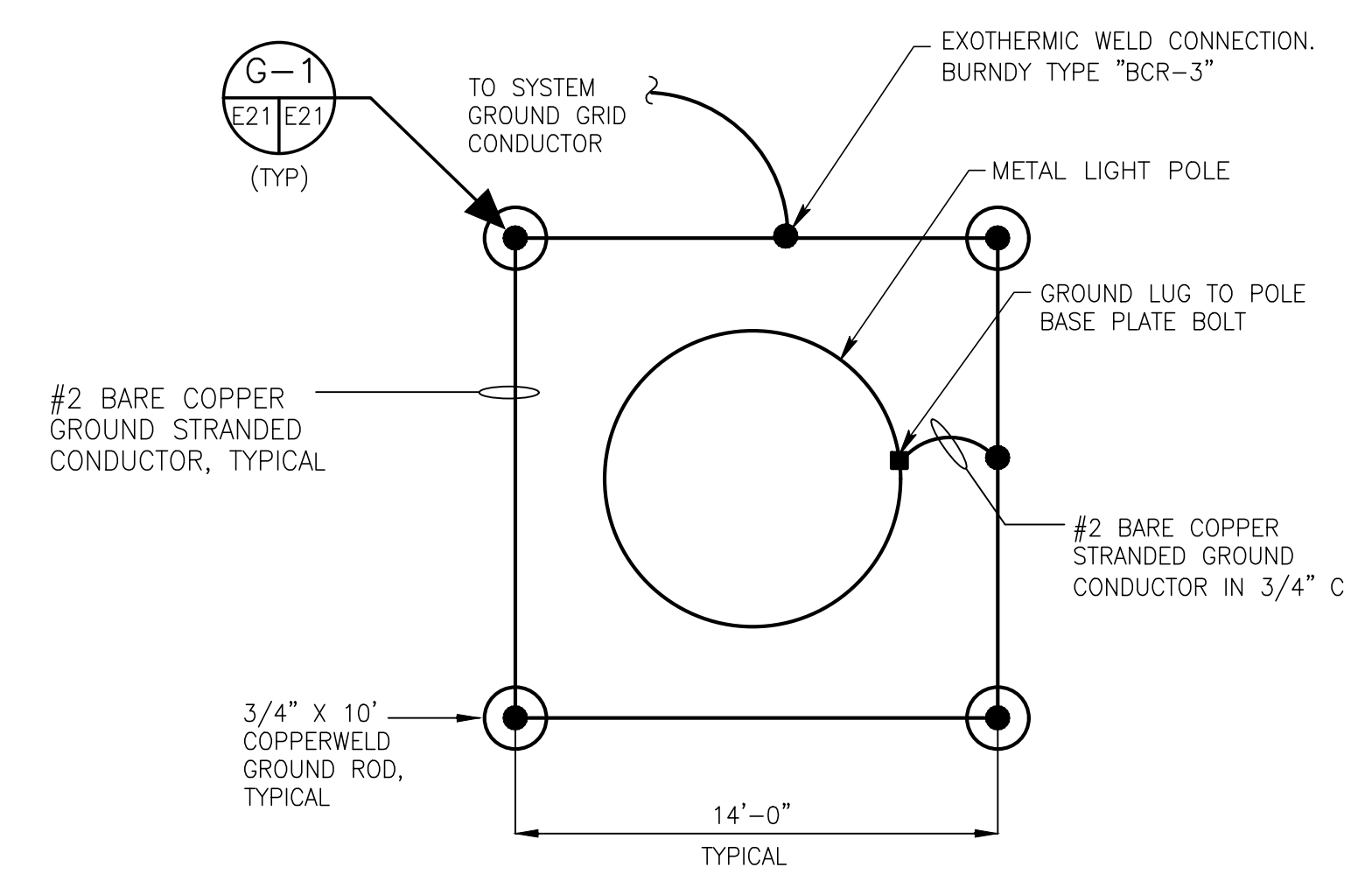
**TYPICAL FOR NEW PERIMETER LIGHTING POLES  
LP-25 THRU LP-40**

**DETAIL 3**  
1/4"=1'-0" \* E4, E5, E6



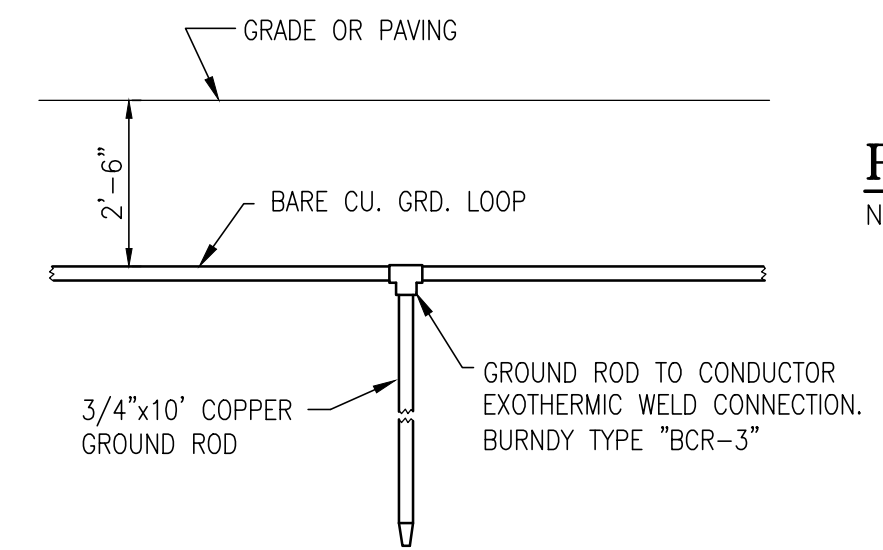
**SECTION A**  
N.T.S.

- NOTES:**
- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
  - PERIMETER SYSTEM SHALL BE PRE-APPROVED BY ENGINEER.
  - PERIMETER LIGHTING SYSTEM SHALL BE CAPABLE OF WITHSTANDING 155 MPH WINDS IN ACCORDANCE WITH ASCE 7.
  - CONTRACTOR SHALL USE SAME MANUFACTURER AND TYPE PERIMETER SYSTEM AT ALL LOCATIONS.
  - THE PERIMETER TOWER SHALL BE GROUNDED AS INDICATED ON THE ASSOCIATED GROUNDED DETAILS AND TO THE SYSTEM GROUND CONDUCTOR.
  - PROVIDE AND INSTALL TERMINAL FOR GROUNDED LIGHT POLE. TERMINAL SHALL BE ACCESSIBLE FROM HANDHOLE.
  - ALL SCREWS ON THE FIXTURES SHALL HAVE "ANTI-SEIZED" LUBE.
  - MAINTAIN A 36" MIN DEPT OF CLEAR WORKING SPACE AT ELECTRICAL EQUIPMENT PER NFPA 70, NEC TABLE 110.26(A)(1) AND 110.34(A) FOR 600V LIVE PARTS MIN CLEAR DISTANCES. CONTRACTOR TO POSITION LIGHTING CONTROL PANELS AVOIDING INTERFERENCES OF BOLLARDS, FIRE HYDRANTS, FENCING, ETC.
  - CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT LIGHTING ON THE PERIMETER LIGHT POLES TO ACHIEVE THE MAX/MIN AVERAGE FOOTCANDLES OF 5FC. CONTRACTOR TO PROVIDE LIGHTING SPREAD CALCULATIONS SUPPLIED BY AN APPROVED LIGHTING VENDOR DETAILING THE DESIRED MAX/MIN AVERAGE RESULTS.
  - ALL FIBER OPTIC CABLE, CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW PERIMETER LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
  - CONTRACTOR TO COORDINATE WITH APM TERMINAL SECURITY AND COMMUNICATIONS PERSONNEL REGARDING THE ROUTING OF CABLES INSIDE THE POLE OR ON THE OUTSIDE SURFACE OF THE POLE.

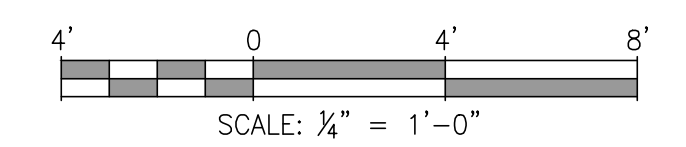


- NOTES:**
- GROUND GRID COST SHALL BE INCLUDED WITH FOUNDATION COST.
  - GROUND GRID SHALL BE 36" BELOW FINISHED GRADE.
  - CADWELD ALL CONNECTIONS.

**PERIMETER LIGHTPOLE GROUNDED DETAIL**  
NOT TO SCALE



**DETAIL "G-1"**  
GROUND ROD



NOTES

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
REFERENCE DRAWINGS					

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DRAWN: WMB CK'D: MED APPD: RSG DATE: 12/14/22 SCALE: NONE

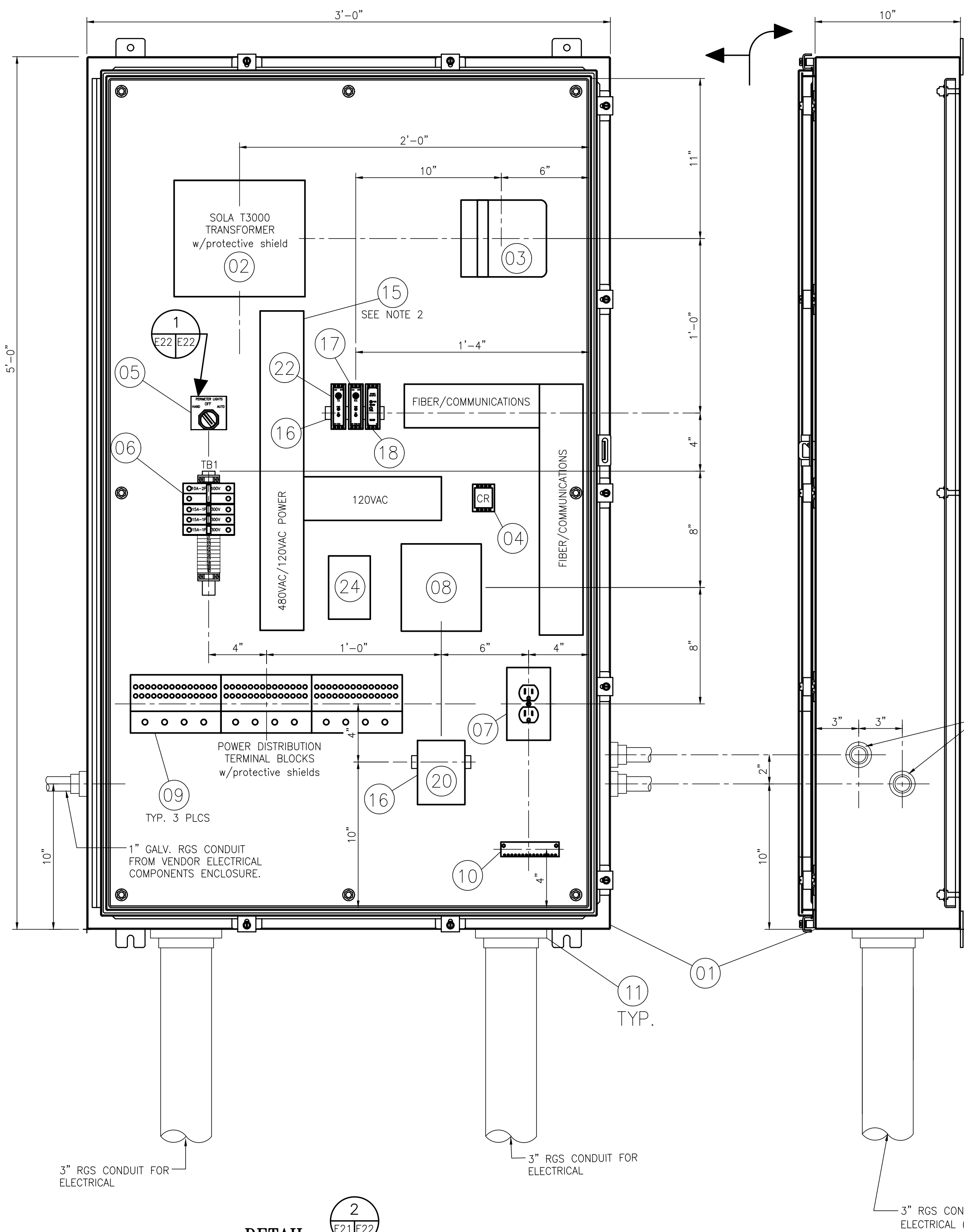
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
NEW PERIMETER LIGHT POLES  
INSTALLATION AND GROUNDED DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: E21 REV: A

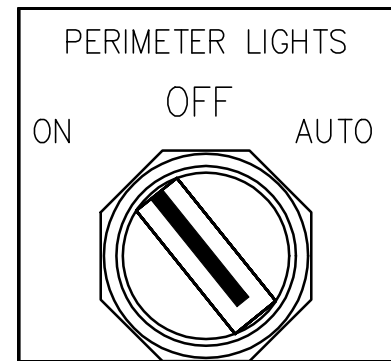


**NOTES:**

- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- PANDUIT OR APPROVED EQUAL PVC WIRING DUCT CABLE MANAGEMENT ORGANIZER SLOTTED WITH SNAP-ON COVERS SIZED FOR THE CABLE RUNS AND CABLE BUNDLES TO BE USED. SECURE TO CONTROL PANEL BACKPLATE WITH STAINLESS STEEL FASTENERS. LABEL "POWER" OR "FIBER/COMMUNICATIONS" WITH POWER RATING FOR EACH PANDUIT DUCT SYSTEM.
- ALL FIBER OPTIC CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW HIGH MAST LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- LABEL THE PANEL, SWITCHES AND MAJOR COMPONENTS AS INDICATED ON THIS DRAWING WITH SELF ADHESIVE DURALABELS OR THE EQUIVALENT.
- SEE DRAWING 4484-E21 FOR LIGHTING CONTROL PANEL MOUNTING POSITIONS ON HIGH MAST POLE AND MINIMUM CLEARANCES PER NEC. MOUNT CENTER OF PANEL AT 48" AFF.

**LIST OF MATERIALS**

MARK	DESCRIPTION
01	60"x36"x12" 316 STAINLESS STEEL NEMA 4X ENCLOSURE HOFFMAN MODEL, A60H3612SS6LP. W/ALUMINUM BACKPANEL A6036P.
02	3kVA OPEN TYPE TRANSFORMER 480V/120V SOLA, MODEL T3000 WITH PROTECTIVE SHIELD
03	FIBER OPTIC SPLITTER BOX - MANUFACTURED BY BLACK BOX.
04	CONTROL RELAY, ALLEN BRADLEY CAT. NO. 700-HH-33AT, 3-POLE, 3PDT, 120VAC COIL, 3 FORM C CONTACTS WITH RELAY BASE CAT. NO. 700-HN126.
05	THREE POSITION SELECTOR SWITCH MAINTAINED POSITION. (2) N.C. AND (2) N.O. CONTACTS, ALLEN BRADLEY MODEL 800T-J2B. WITH 800T-X-700E NAMEPLATE THAT READS AS SHOWN ON DRAWING.
06	TERMINAL BLOCK "TB1" CONSISTING OF: (1) 10A-2P, 480V CIRCUIT BREAKER - ALLEN BRADLEY MODEL 1492-SP-2-D-100. (3) 15A-1P CIRCUIT BREAKERS - ALLEN BRADLEY MODEL 1492-CB-1-H-100-N. (10) TERMINAL BLOCKS - ALLEN BRADLEY MODEL 1492-F1 TERMINAL MOUNTING RAIL - ALLEN BRADLEY 1492-N22 END BARRIER - ALLEN BRADLEY MODEL 1492-N18. END CLAMPS - ALLEN BRADLEY MODEL 1492-N2.
07	15A 120V, GFCI RECEPTACLE FLUSH MOUNTED INSIDE OF ENCLOSURES. PROVIDE ALUMINUM WEATHER PROOF COVER. SHALL NOT BE A GFCI TYPE IN COMMUNICATIONS ENCLOSURE.
08	30A-3P, OPEN TYPE ELECTRICALLY HELD LIGHTING CONTACTOR W/AUX. CONTACTS. 120V COIL. ALLEN BRADLEY MODEL 500FL-B0D93
09	POWER DISTRIBUTION BLOCKS - ILSCO TYPE PDBU CAT. NO. PDBU-428-500-1 W/PROTECTIVE SHIELD
10	GROUND BAR
11	GALV. RAIN TIGHT HUB TYPICAL
12	(NOT USED)
13	(NOT USED)
14	(NOT USED)
15	3"x3" PANDUIT WIRING DUCT WITH COVERS, SEE NOTE 2 THIS DRAWING
16	35 MM DIN RAIL, ALLEN BRADLEY CAT. NO. 199-DR1., AS REQUIRED
17	FIBER OPTIC RECEIVER FOR-CC-850-MM-ST
18	24V DC POWER SUPPLY, DIN RAIL MOUNTED.
19	FIBER OPTIC CAMERA & SECURITY EQUIPMENT BY BLACK BOX. INSTALL IN COMM. ENCL. (BY OTHERS)
20	30A-3P CIRCUIT BREAKER ALLEN BRADLEY MODEL 1492-MC-BA330.
21	UNINTERRUPTIBLE POWER SUPPLY (UPS). INSTALL IN COMM. ENCL. (BY OTHERS)
22	FIBER OPTIC TRANSMITTER FOT-CC-850-MM-ST.
23	1M FIBER OPTIC CABLE. (SEE DWG. 4484-E21 PERIMETER LIGHTING AND CONTROL DIAGRAMS)
24	SURGE SUPPRESSOR - EXISTING IN LP-22, 23 AND 24. MATCH EXISTING SPD FOR LP-25 THRU LP-40
25	COMMUNICATIONS ENCLOSURE, NEMA 4, HOFFMAN CAT# CSD363020 WITH BACK PANEL



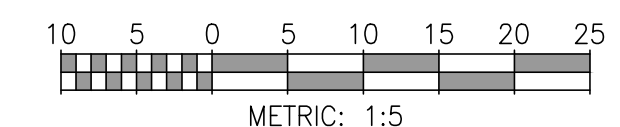
**DETAIL 1**  
SCALE: NONE

**DETAIL 2**  
SCALE: 1:5

**PERIMETER LIGHT POLE CONTROL PANEL LAYOUT & DETAILS**

**NOTE:**

ALL BOM ITEMS TO BE SUPPLIED BY CONTRACTOR UNLESS OTHERWISE NOTED.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:



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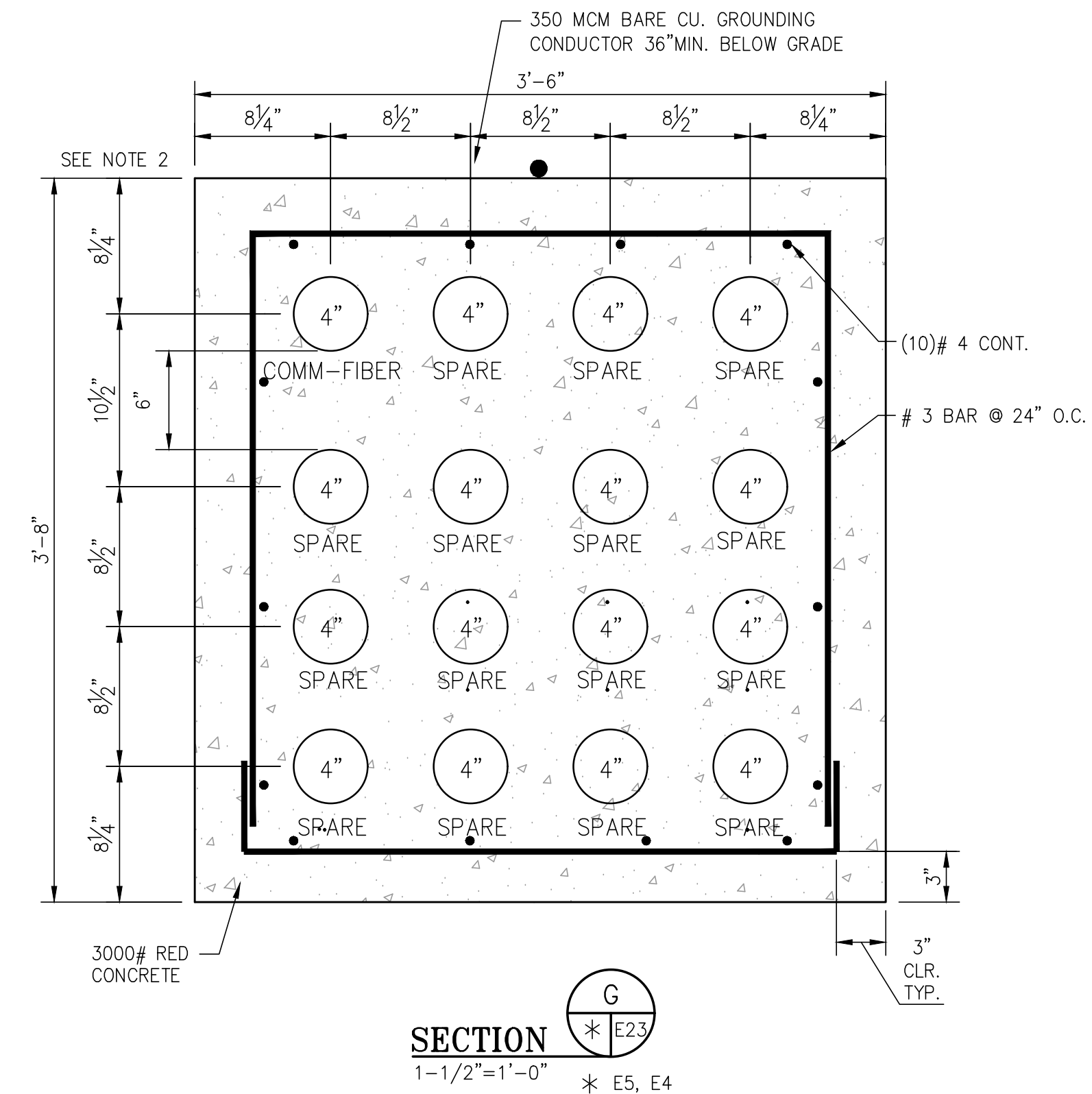
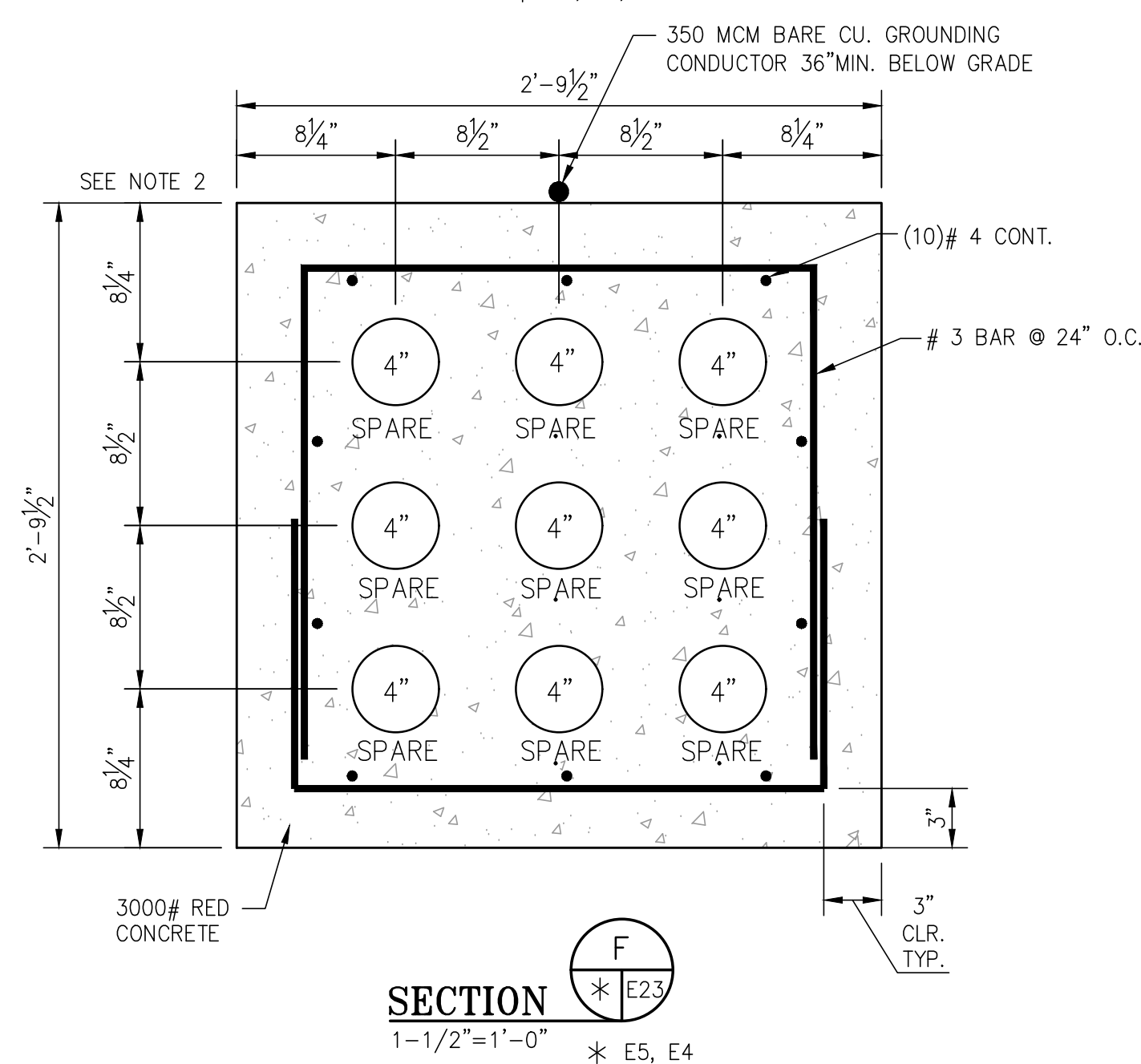
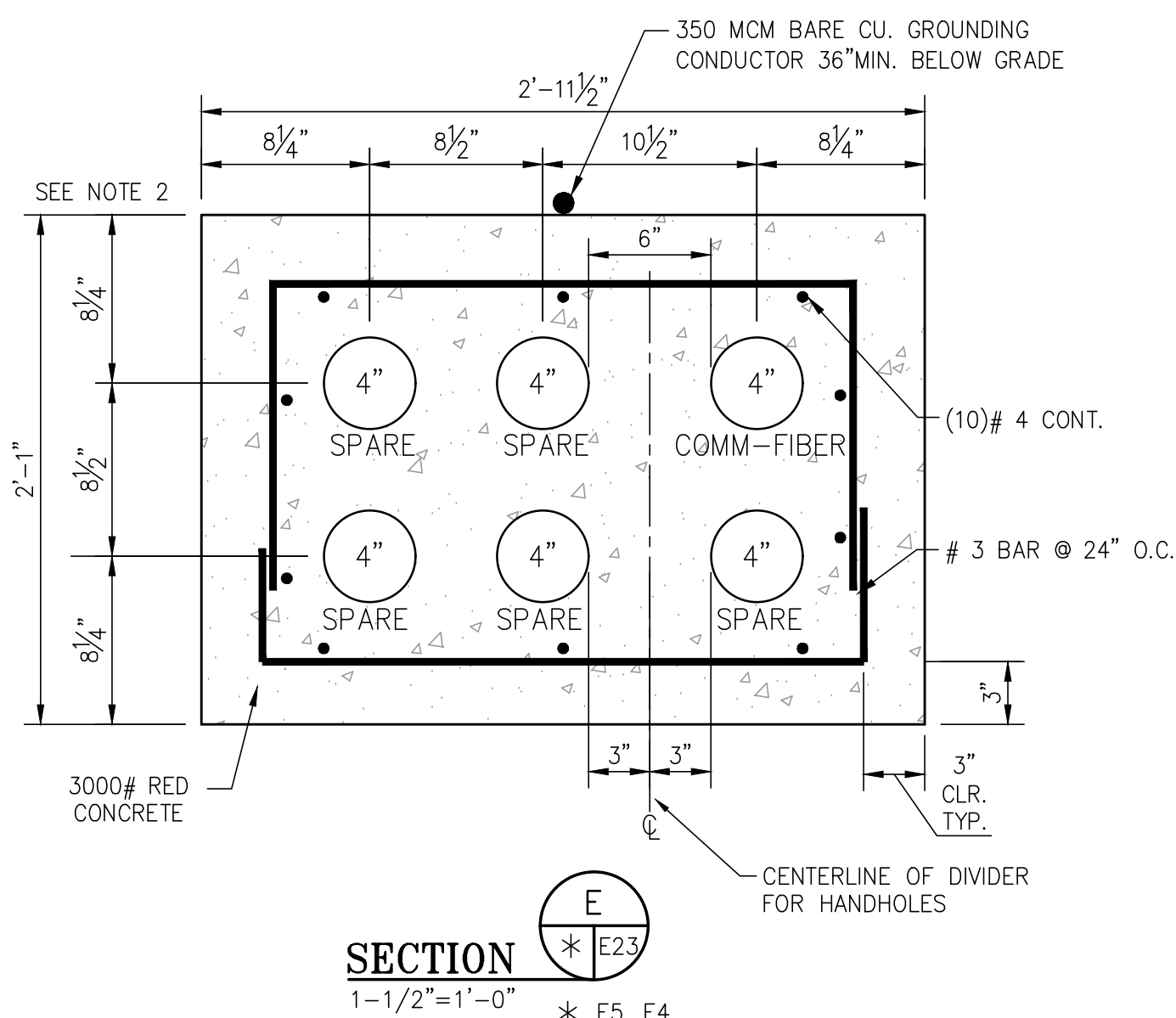
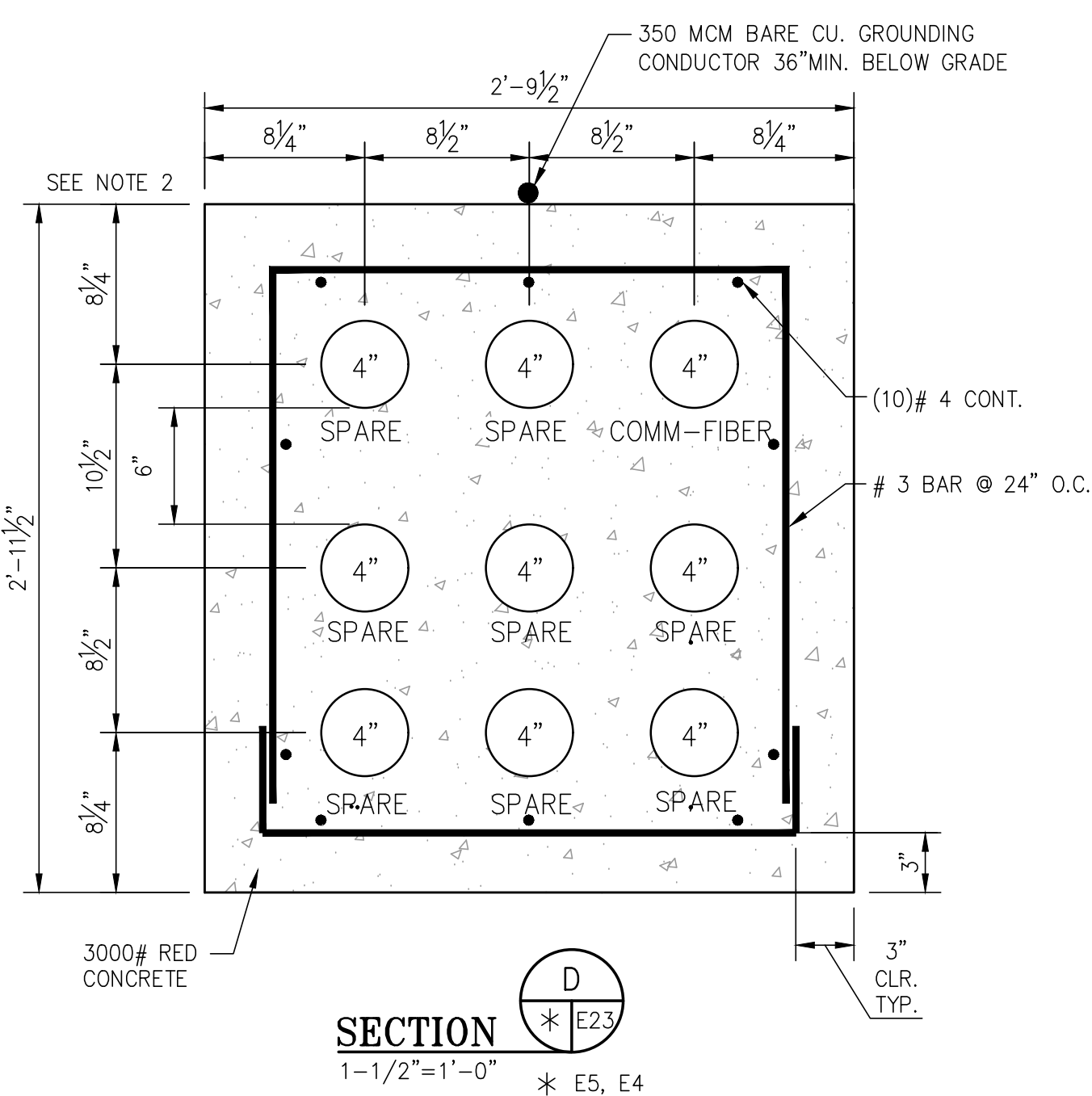
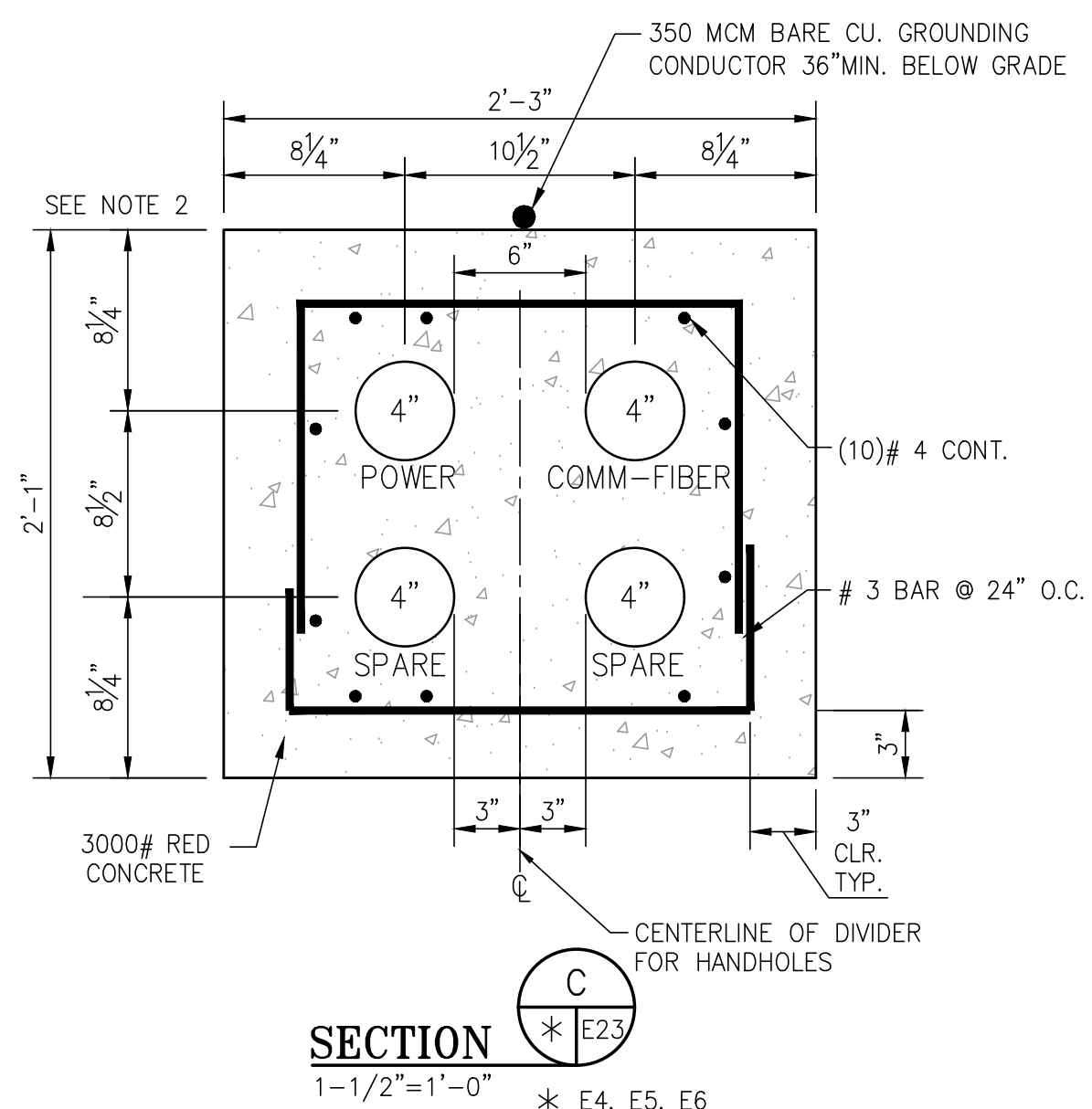
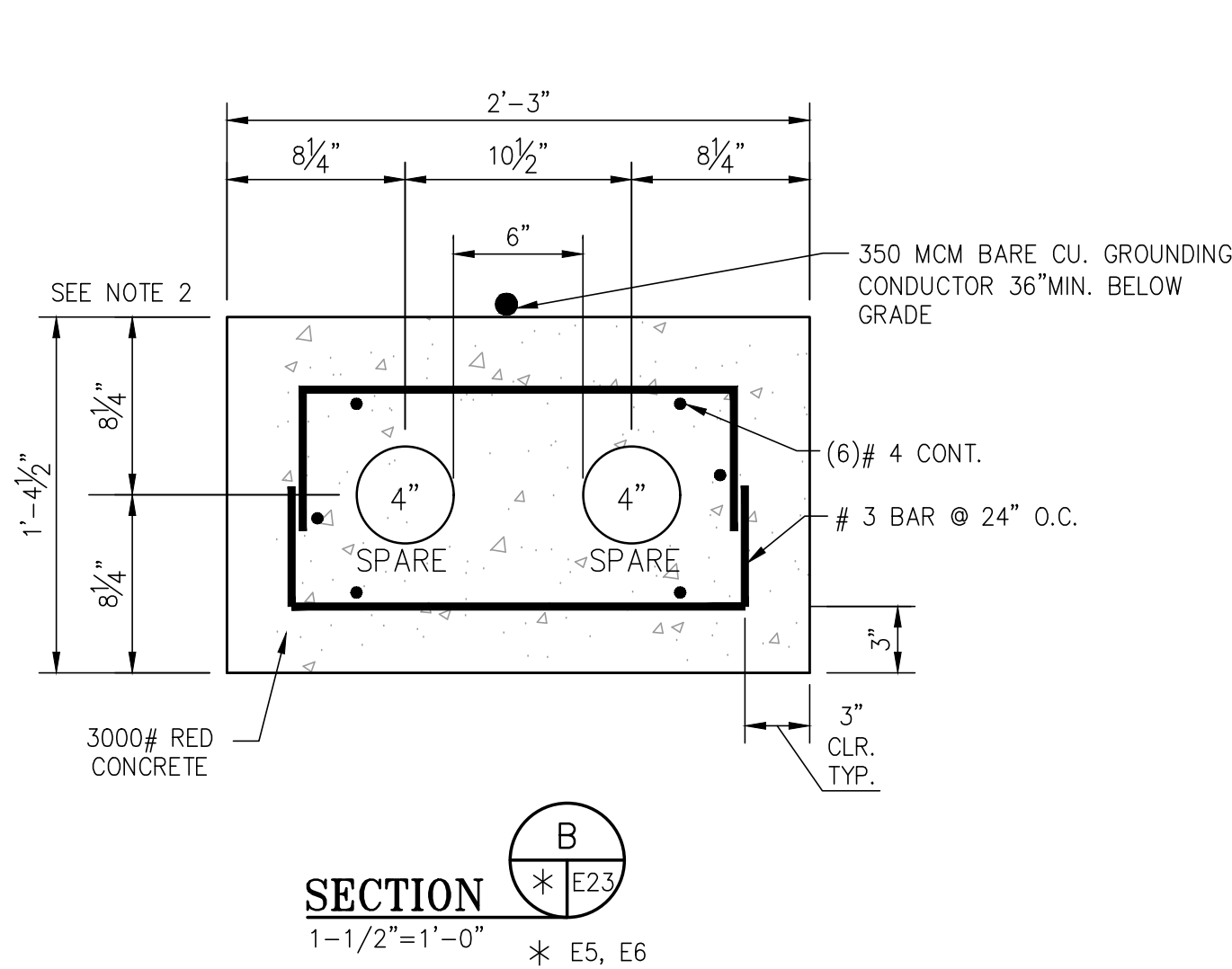
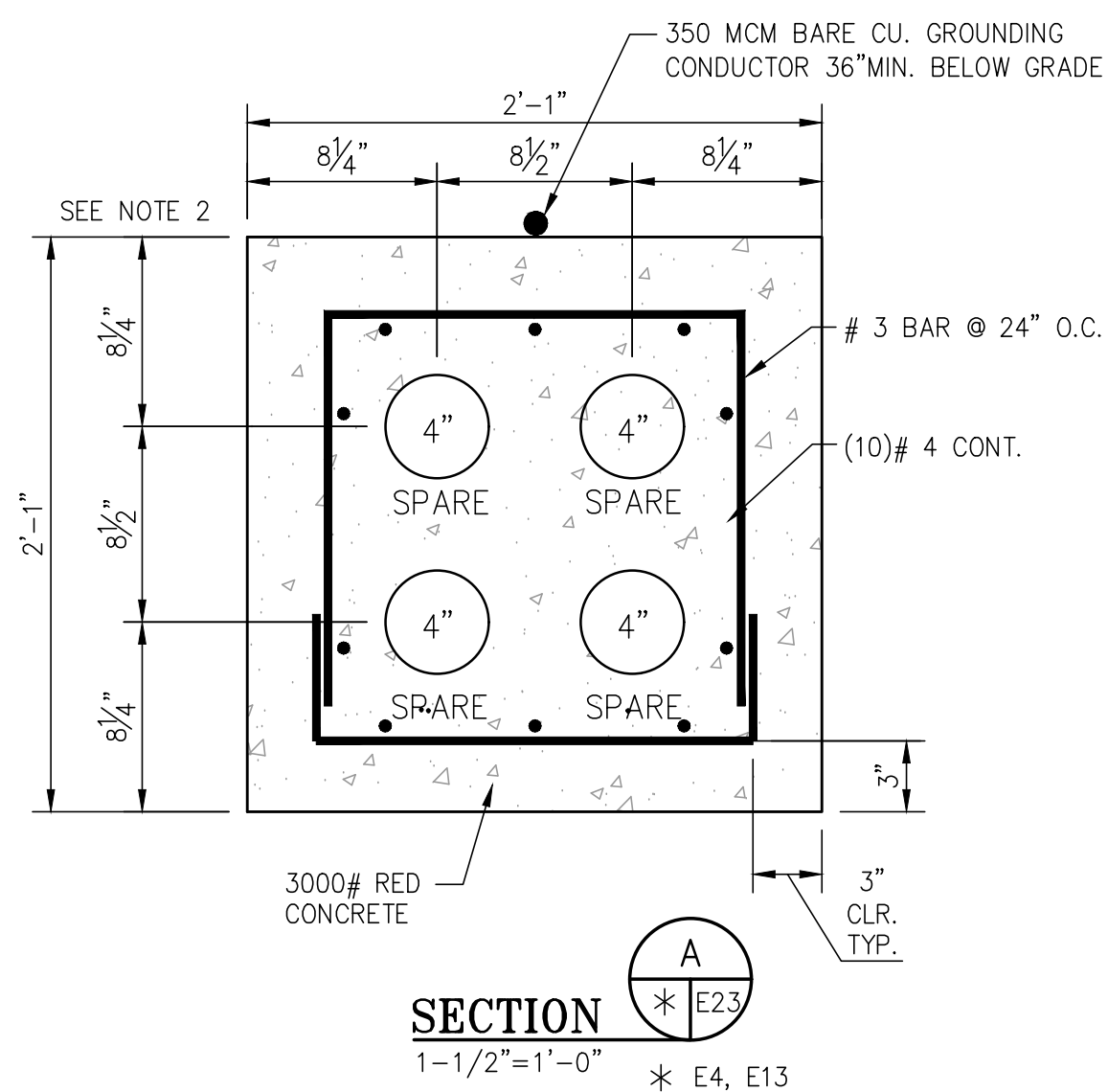
APMT PHASE IV YARD EXPANSION  
NEW PERIMETER LIGHT POLES LIGHTING CONTROL  
PANEL LAYOUT AND FABRICATION DETAILS

FOR: ALABAMA PORT AUTHORITY

NO.	REVISION	DATE	APPD	CK'D	WMB	APPD	DATE
A	ISSUED FOR BID	04/05/24	RSG	WMB	WMB	WMB	04/05/24
<p>REFERENCE DRAWINGS</p>							

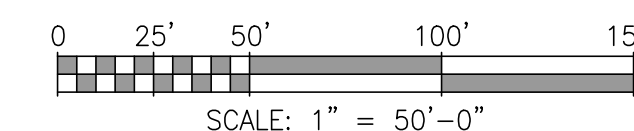
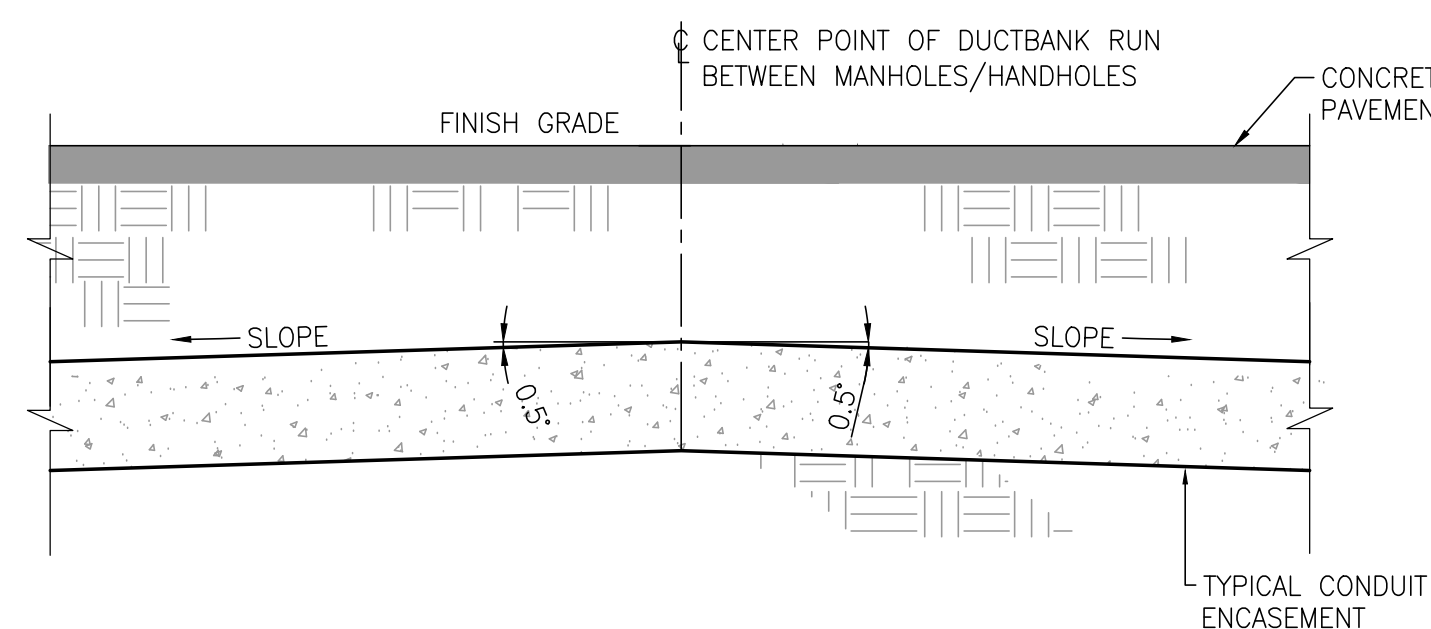
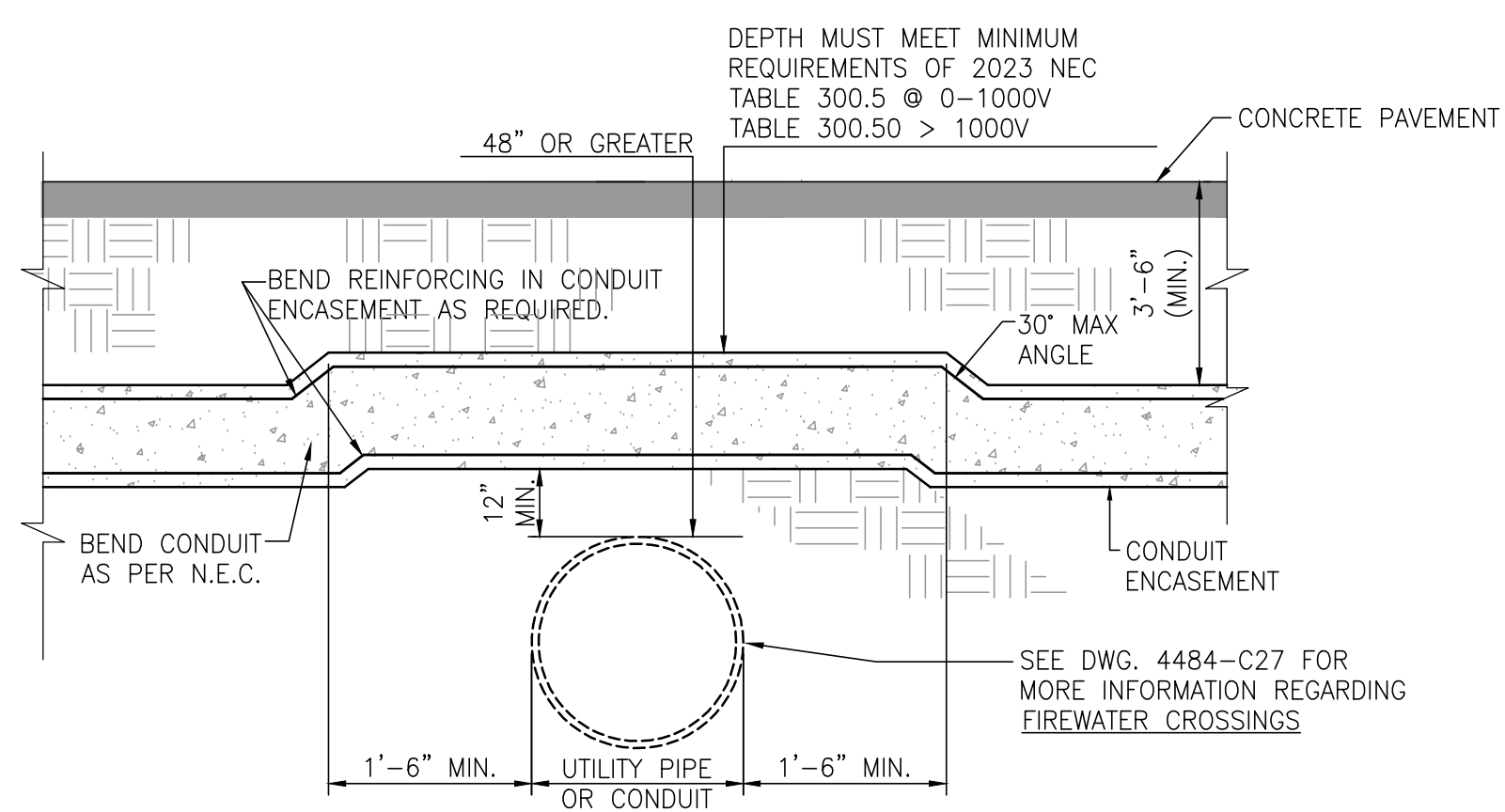
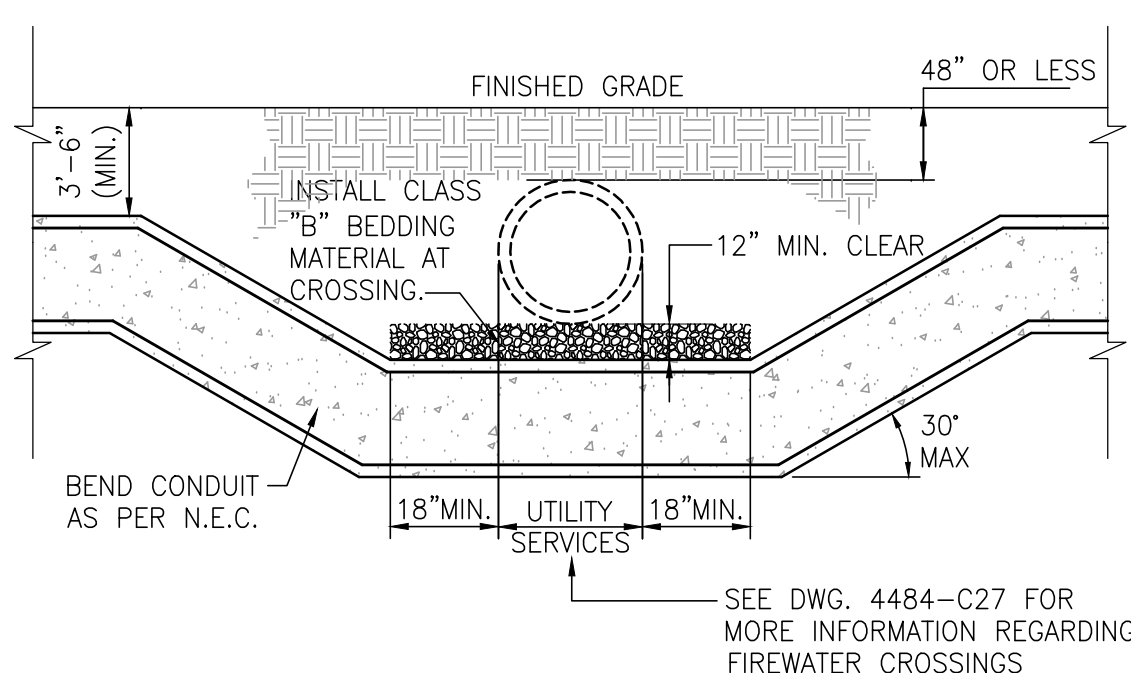
PROJECT NO: 4484 DWG NO: E22 REV: A





**NOTES**

- SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR ELECTRICAL GENERAL SCOPE OF WORK, GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
- DUCTBANKS SHALL BE MINIMUM OF 36" BELOW FINISHED GRADE. DUCTBANKS SHALL BE SLOPED AT 0.5 DEGREES BACK TO MANHOLES FROM THE CENTER POINT OF DUCTBANK RUNS TO BOTH ENDS OF THE DUCTBANK RUNS TO ALLOW PROPER DRAINAGE OF CONDUITS. SEE DUCTBANK SLOPE DETAIL THIS DWG.



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
NEW ELECTRICAL/COMMUNICATIONS DUCTBANK  
SECTIONS AND DETAILS

FOR: ALABAMA PORT AUTHORITY

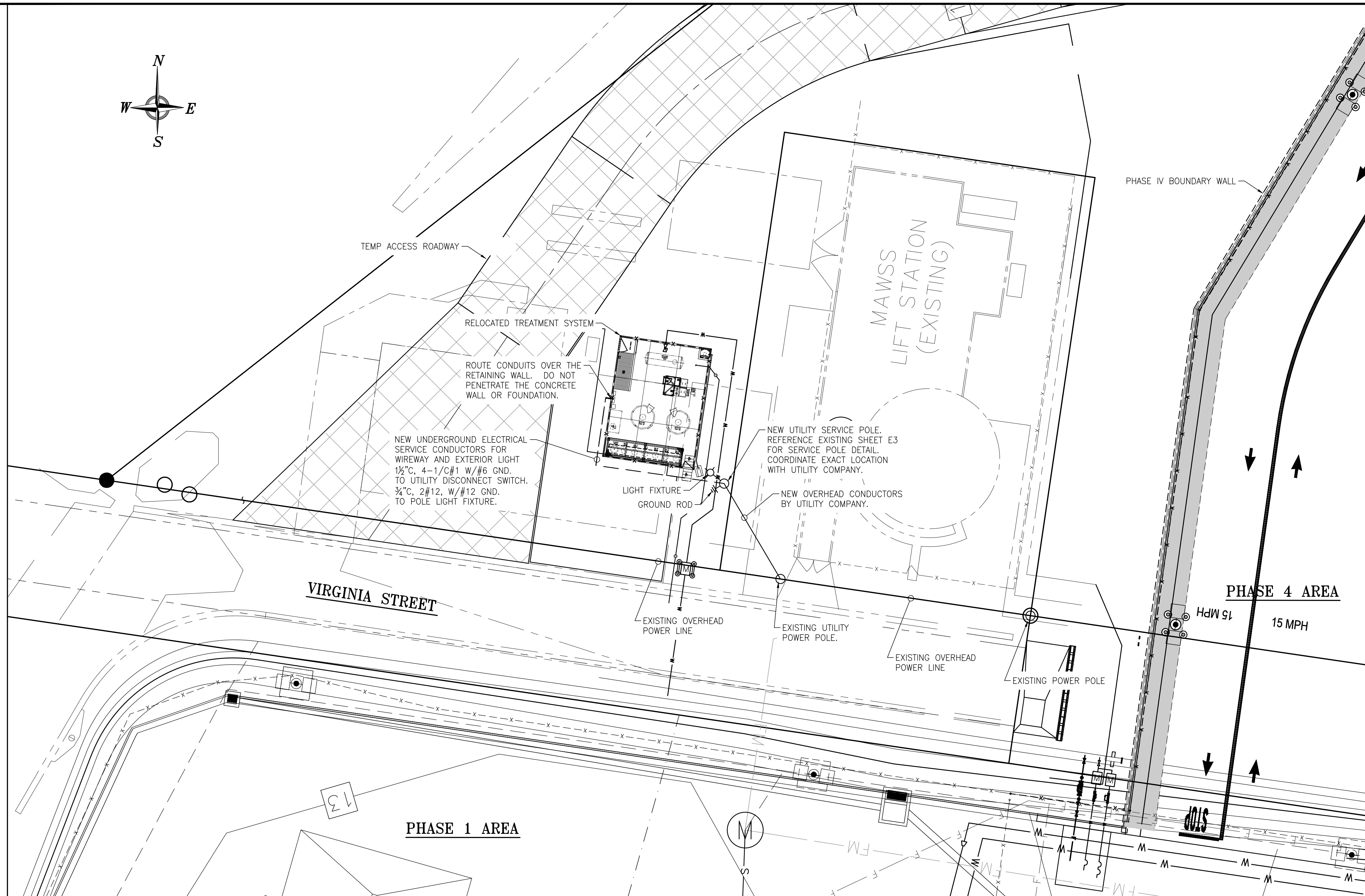
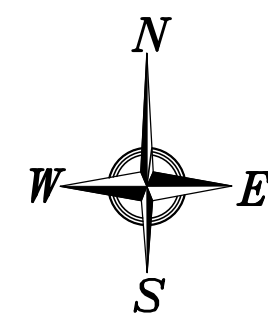
PROJECT NO: 4484 DWG NO: E23

REV: A



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24
REFERENCE DRAWINGS					



**NOTES**

1. SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX. SEE DWG. 4484-E1 FOR GENERAL ELECTRICAL NOTES AND GROUNDING.

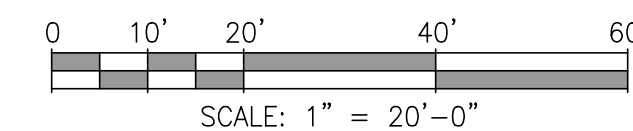
**TREATMENT SYSTEM RELOCATION ELECTRICAL SCOPE OF WORK:**

- CONTRACTOR TO PROVIDE A NEW POWER POLE INCLUDING GUY WIRES NEAR THE RELOCATED TREATMENT SYSTEM. RELOCATE EXISTING POLE MOUNTED HEAVY DUTY 100A, 600V, STAINLESS STEEL SAFETY SWITCH AND OVERHEAD LIGHT FIXTURE TO THE NEW POWER POLE. SEE AS-BUILT ELECTRICAL REFERENCE DRAWINGS E1, E2, E3 AND E4 FOR EXISTING CONDITIONS AND SERVICE POLE DETAILS.
- NEW WATT-HOUR METER WILL BE PROVIDED BY APCO (ALABAMA POWER COMPANY).
- APCO IS EXPECTED TO INSTALL THE FOLLOWING ITEMS:  
OVERHEAD CONDUCTORS  
WATT-HOUR METER  
POLE MOUNTED TRANSFORMERS
- CONTRACTOR TO INSTALL UNDERGROUND CONDUITS MINIMUM 24" DEEP COVERED IN RED DYE CONCRETE FOR 1½" AND ¾" RIGID PVC CONDUITS FROM THE NEW POWER POLE TO THE NEW TREATMENT SYSTEM.
- CONTRACTOR TO COORDINATE WITH APCO FOR ALL EQUIPMENT, CABLE, GROUNDING AND TERMINATION RESPONSIBILITIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL WIRING AND TERMINATIONS FROM THE NEW POWER POLE WATT-HOUR METER, SAFETY DISCONNECT SWITCH AND THE OVERHEAD POLE MOUNTED LIGHT FIXTURE TO THE NEW TREATMENT SYSTEM.
- CONTRACTOR SHALL PROVIDE PERSONNEL WHO HAVE THE QUALIFICATIONS AND CERTIFICATIONS TO WORK AROUND HAZMAT CONDITIONS.
- SEE DEMOLITION DRAWINGS 4484-E25 AND E26 FOR ELECTRICAL EQUIPMENT THAT SHALL BE RELOCATED TO THE NEW TREATMENT SYSTEM LOCATION.

**ELECTRICAL REFERENCE DRAWINGS**

- E1 EXISTING ELECTRICAL SITE PLAN (AS-BUILT)
- E2 EXISTING ELECTRICAL CONTROL SCHEMATIC (AS-BUILT)
- E3 EXISTING ELECTRICAL DETAILS (AS-BUILT)
- E4 EXISTING SINGLE LINE DIAGRAM (AS-BUILT)

**RELOCATED TREATMENT SYSTEM POWER AND LIGHTING PLAN**  
1:20



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION  
TREATMENT SYSTEM RELOCATION  
POWER AND LIGHTING PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484

DWG NO: E24

REV: A

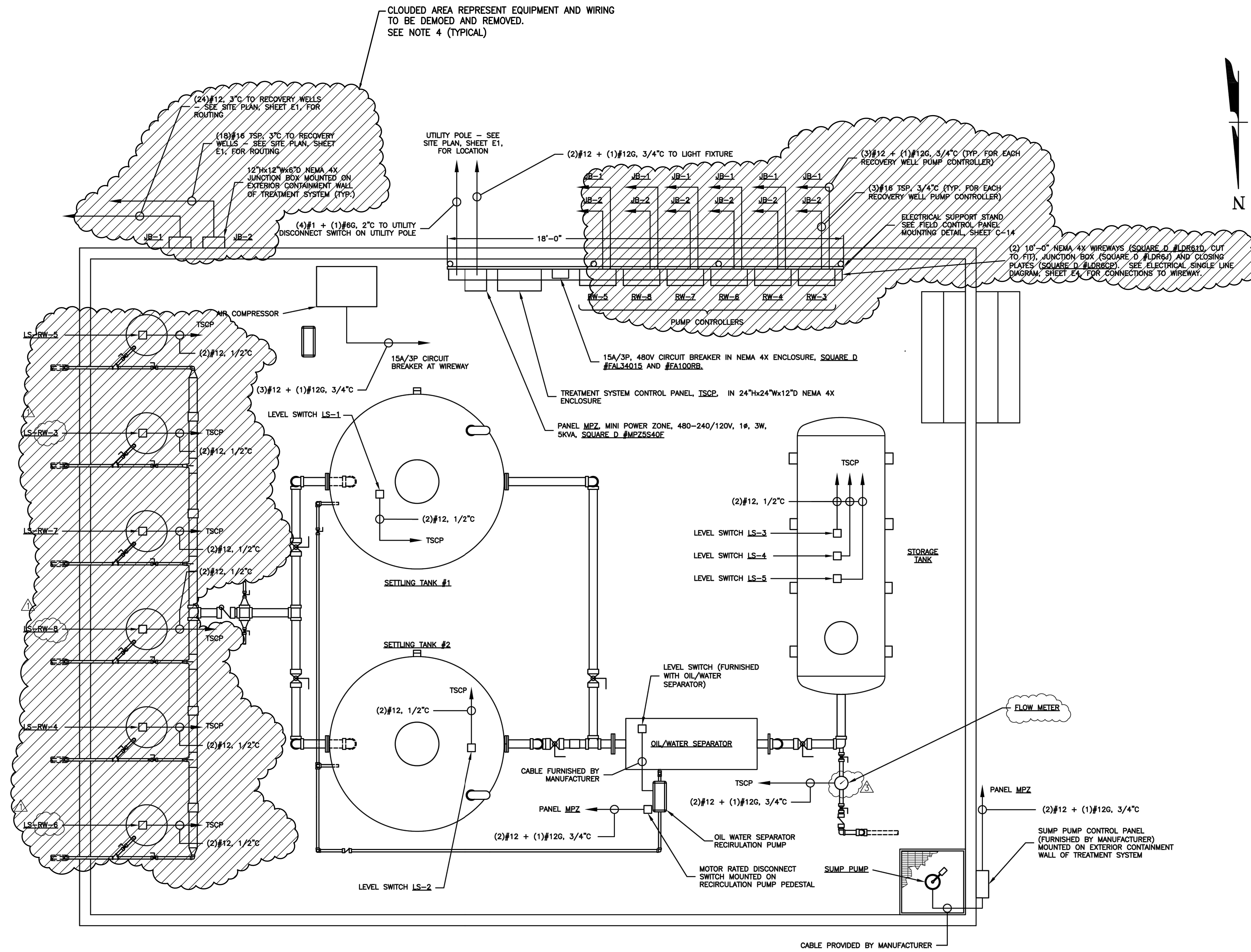


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NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN	CK'D	APPD	DATE	SCALE
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24					AS NOTED
	REFERENCE DRAWINGS									

**NOTES:**

1. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
2. SEE DRAWING 4484-E24 FOR TREATMENT SYSTEM RELOCATION ELECTRICAL SCOPE OF WORK.
3. SEE DRAWING 4484-E26 FOR TREATMENT SYSTEM REVISED SINGLE LINE DIAGRAM.
4. CONTRACTOR TO DEMO AND REMOVE EXISTING ITEMS AS CLOUDED.
5. CONTRACTOR TO RELOCATE ALL NON-CLOUDED ELECTRICAL AND COMMUNICATIONS WIRING AND DEVICES TO THE NEW TREATMENT SYSTEM LOCATION AND REINSTALL.



**EXISTING TREATMENT SYSTEM DEMOLITION PLAN**



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO.

**APMT PHASE IV YARD EXPANSION**  
**EXISTING TREATMENT SYSTEM**  
**DEMOLITION AND RELOCATION DETAILS**

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 | DWG NO: E25 | REV: A



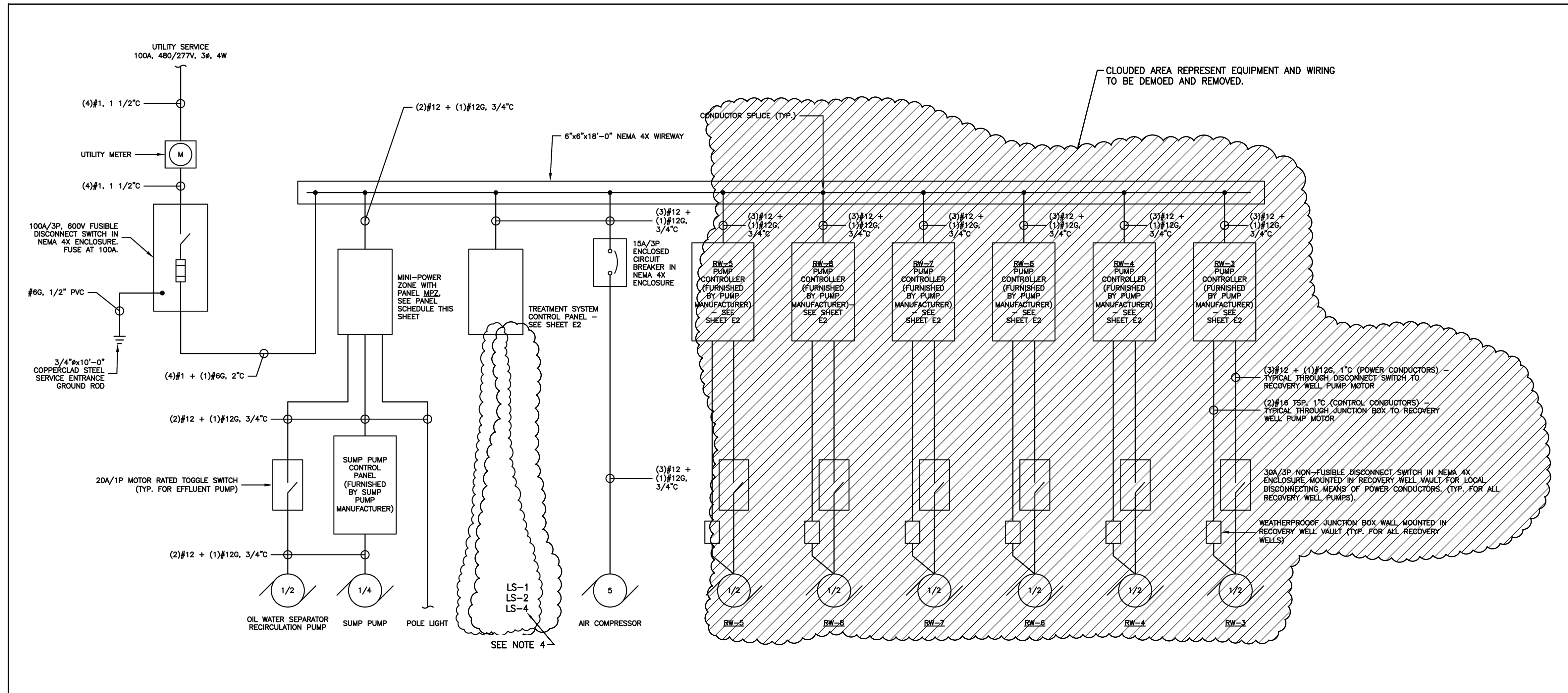
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DRAWN: WMB | CK'D: MED | APPD: RSG | DATE: 06/16/23 | SCALE: NONE

NOTES

**NOTES:**

1. SEE DWG. 4484-G2 FOR THE ELECTRICAL DRAWING INDEX. SEE DWG. 4484-E1 FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
2. SEE DRAWING 4484-E24 FOR TREATMENT SYSTEM RELOCATION ELECTRICAL SCOPE OF WORK.
3. SEE DRAWING 4484-E25 FOR TREATMENT SYSTEM DEMOLITION AND RELOCATION PLAN.
4. LEVEL SWITCHES LS-1, LS-2 AND LS-4 ARE THE ONLY LEVEL SWITCHES EXPECTED TO BE RELOCATED AND REWIRED TO THE TREATMENT SYSTEM CONTROL PANEL (TSCP).



**REVISED SINGLE LINE DIAGRAM**



ASPA PROJECT NO: 11261 - TASK 1 | ASPA DRAWING NO:



APMT PHASE IV YARD EXPANSION  
EXISTING TREATMENT SYSTEM  
REVISED SINGLE LINE DIAGRAM

FOR: ALABAMA PORT AUTHORITY

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PROJECT NO: 4484 | DWG NO: E26 | REV: A



# ALABAMA PORT AUTHORITY

## PORT OF MOBILE

# APMT PHASE IV DOCK MODIFICATION AND BULKHEAD EXTENSION

KAY IVEY, GOVERNOR OF ALABAMA  
JOHN C. DRISCOLL, DIRECTOR



APRIL 2024

### DRAWING INDEX

DWG. #	DWG. TITLE
<b>GENERAL</b>	
G1	PROJECT COVER SHEET & DRAWING INDEX
G2	PROJECT SITE LOCATION PLAN & VICINITY MAP
G3	ENLARGED PROJECT SITE LOCATION PLAN
G4	SOIL BORING LOCATION PLAN
G5	SOIL BORING LOGS
G6	EXISTING HYDROGRAPHIC SURVEY
<b>STRUCTURAL</b>	
S1	PROJECT GENERAL, STRUCTURAL NOTES
S2	24" SQ. PRESTRESSED CONCRETE PILE DETAILS
S3	PILE SCHEDULES
S4	AREA KEY PLAN
S5	PILE PLAN - AREA AN
S6	PILE PLAN - AREA BN
S7	PIPE Z COMBINATION WALL DETAILS
S8	PIPE Z COMBINATION WALL DETAILS
S9	PIPE Z COMBINATION WALL DETAILS
S10	BULKHEAD EXT. PILE CAP PLAN - AREA AN
S11	BULKHEAD EXT. PILE CAP PLAN - AREA BN
S12	BULKHEAD EXT. PILE CAP SECTIONS & DETAILS
S13	BULKHEAD EXT. PILE CAP SECTIONS & DETAILS
S14	BULKHEAD EXT. PILE CAP SECTIONS & DETAILS
S15	OUTFALL NO.1 PIPE PENETRATION DETAIL & SECTIONS
S16	BULKHEAD EXT. PILE CAP SOUTH TIE-IN DETAIL & SECTIONS
S17	BULKHEAD EXT. PILE CAP DEMOLITION DETAIL & SECTIONS
S18	BULKHEAD EXT. PILE CAP NORTH TIE-IN DETAIL & SECTIONS
S19	BULKHEAD EXT. PILE CAP DEMOLITION DETAIL & SECTIONS
S20	BULKHEAD EXT. PILE CAP SECTIONS & DETAILS
S21	BULKHEAD EXT. PILE CAP SECTION
S22	BULKHEAD EXT. GUARD RAIL RELOCATION ELEVATION
S23	DOCK MODIFICATION BEAM PLAN - METAL DECK OPTION
S24	DOCK MODIFICATION DECK PLAN - METAL DECK OPTION
S25	DOCK MODIFICATION - CONCRETE SECTIONS & DETAILS
S26	DOCK MODIFICATION - CONCRETE SECTIONS & DETAILS
S27	DOCK MODIFICATION - CONCRETE SECTIONS & DETAILS
S28	DOCK MODIFICATION - CONCRETE SECTIONS & DETAILS
<b>ELECTRICAL</b>	
E1	HM33 & HM34 REMOVAL AND REINSTALLATION PLAN
E2	CABLE, CONDUIT & FIBER REMOVAL AND REINSTALLATION NOTES
E3	HM33 & HM34 REMOVAL AND REINSTALLATION DETAILS
<b>REFERENCE</b>	
<b>ORE TERMINAL MAIN WHARF PROJECT (1952)</b>	
417B-S2	MAIN WHARF - PILE PLAN & DETAILS
417B-S6	MAIN WHARF - TRANSVERSE SECTIONS I & PILE DETAILS
417B-S7	MAIN WHARF - TRANSVERSE SECTIONS II & PILE DETAILS
417B-S27	MAIN WHARF PILE DRIVING POINT DETAILS
417B-S14	NORTH BARGE WHARF PILE PLAN & ELEVATIONS
417B-S15	NORTH BARGE WHARF TRANSVERSE SECTIONS
417B-S16	NORTH BARGE WHARF PILE PLAN & ELEVATION
<b>CHOCTAW POINT TERMINAL STAGE ONE WHARF PROJECT (2004)</b>	
M1716-S02A	PILE PLAN AREA NORTH SECTION
M1716-S12	WHARF DECK PLAN AREA "A" NORTH SECTION
M1716-S16	MISCELLANEOUS SECTIONS AND DETAILS
M1716-S16A	MISCELLANEOUS SECTIONS AND DETAILS
<b>BLUE CREEK COAL TERMINAL BULKHEAD REPLACEMENT PROJECT (2012)</b>	
1800-SP-C2	SHEET PILE PLAN (ALTERNATE)
1800-SP-S6	SECTIONS & DETAILS WALL 8, 9 & 10
1800-SP-S8	SHEET PILE WALL DETAILS
1800-SP-S9	SHEET PILE WALL DETAILS
1800-SP-S9A	SHEET PILE WALL DETAILS
1800-SP-WSD1	WALER SHOP DRAWING
1800-SP-WE1	SHEET PILE WALER PLAN
1800-SP-T1	TIEBACK TEST PLAN
<b>APM TERMINAL PHASE III DOCK EXTENSION PROJECT (2018)</b>	
4111-D6	MAIN WHARF PILE DEMO PLAN & SCHEDULE
4111-D7	MAIN WHARF PILE DEMO DETAILS
4111-S7	DECK PLAN - METAL DECK OPTION
4111-S9	CONCRETE SECTIONS - METAL DECK OPTION
4111-S11	CONCRETE SECTIONS - METAL DECK OPTION



ASPA PROJECT NO: 11099 - TASK 3 | ASPA DRAWING NO.

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
PROJECT COVER SHEET & DRAWING INDEX

FOR: ALABAMA PORT AUTHORITY

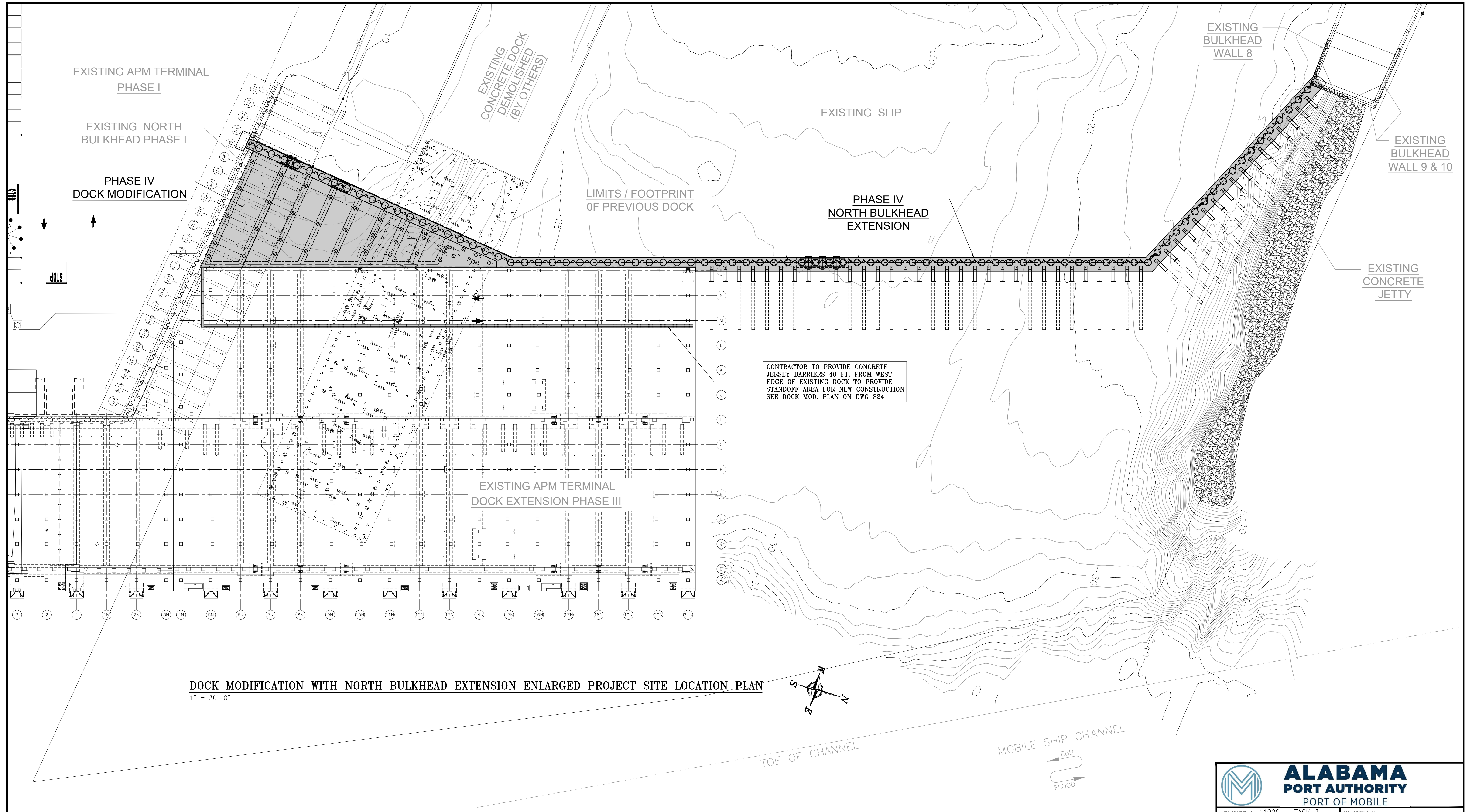
PROJECT NO: 4485 | DWG NO: G1 | REV: A

NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN	CK'D	APPD	DATE	SCALE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24	RST	JEJ	RSG	06/21/22	NONE



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**DOCK MODIFICATION WITH NORTH BULKHEAD EXTENSION ENLARGED PROJECT SITE LOCATION PLAN**  
 1" = 30'-0"


NOTES	

NO.	REVISION	DRAWN	CK'D	APPD	DATE
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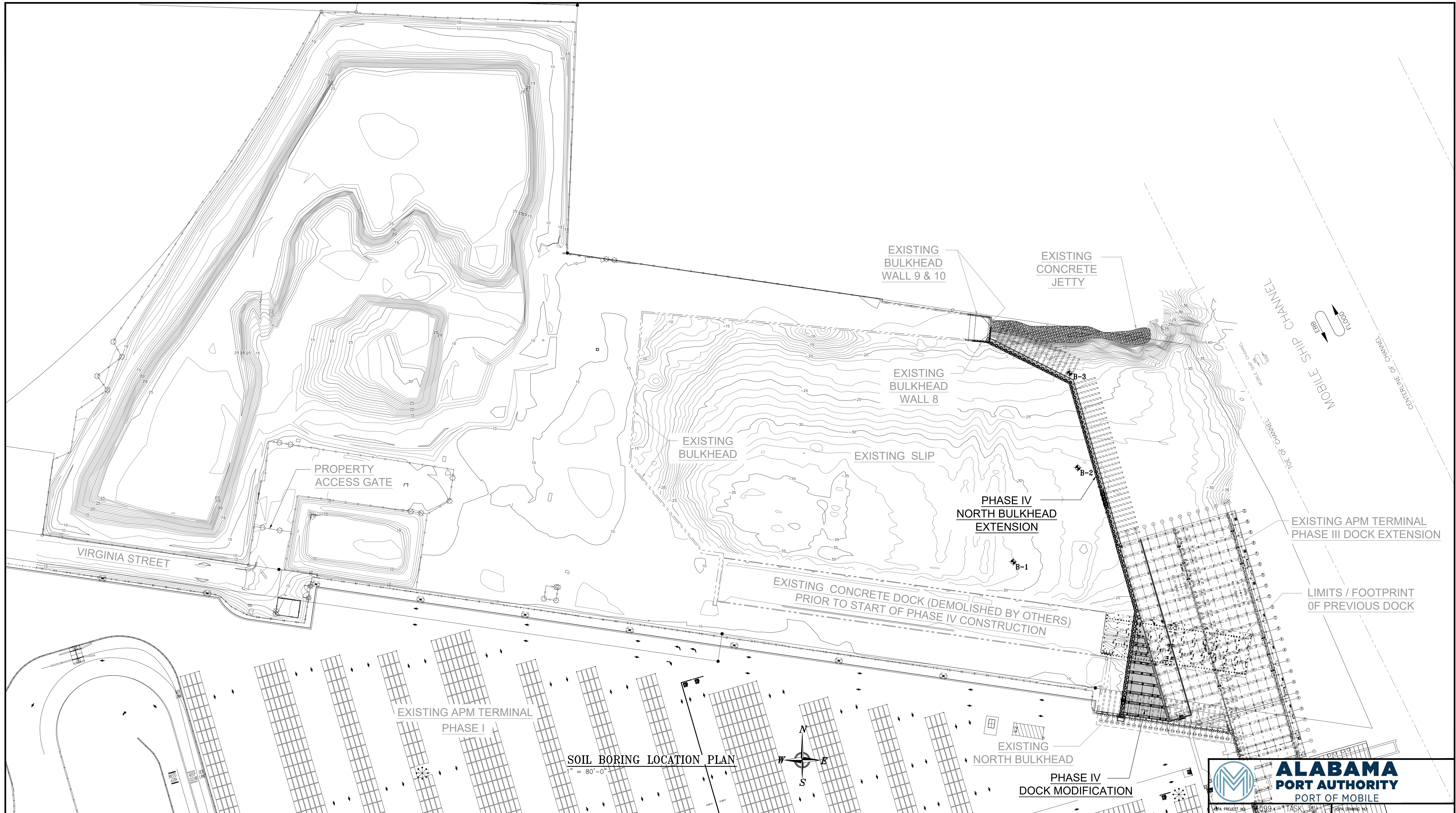
**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 3 | ASPA DRAWING NO:

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
 ENLARGED PROJECT SITE LOCATION PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 | DWG NO: G3 | REV: A



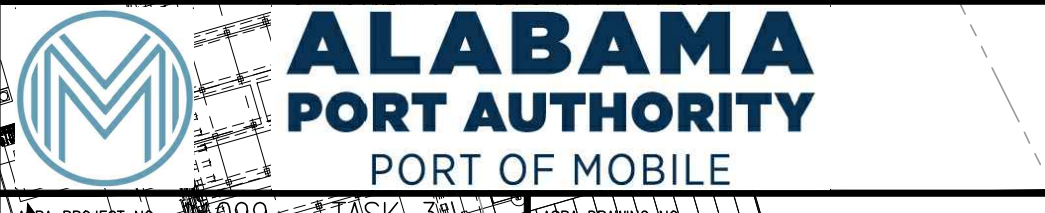
NOTES

1. SEE DRAWING S1 FOR SURVEY NOTES.
2. SEE DRAWING G5 FOR SOIL BORING LOGS.

NO.	REVISION	DATE	APPD	DATE
A	ISSUED FOR BID	04/05/24	RST	JEU



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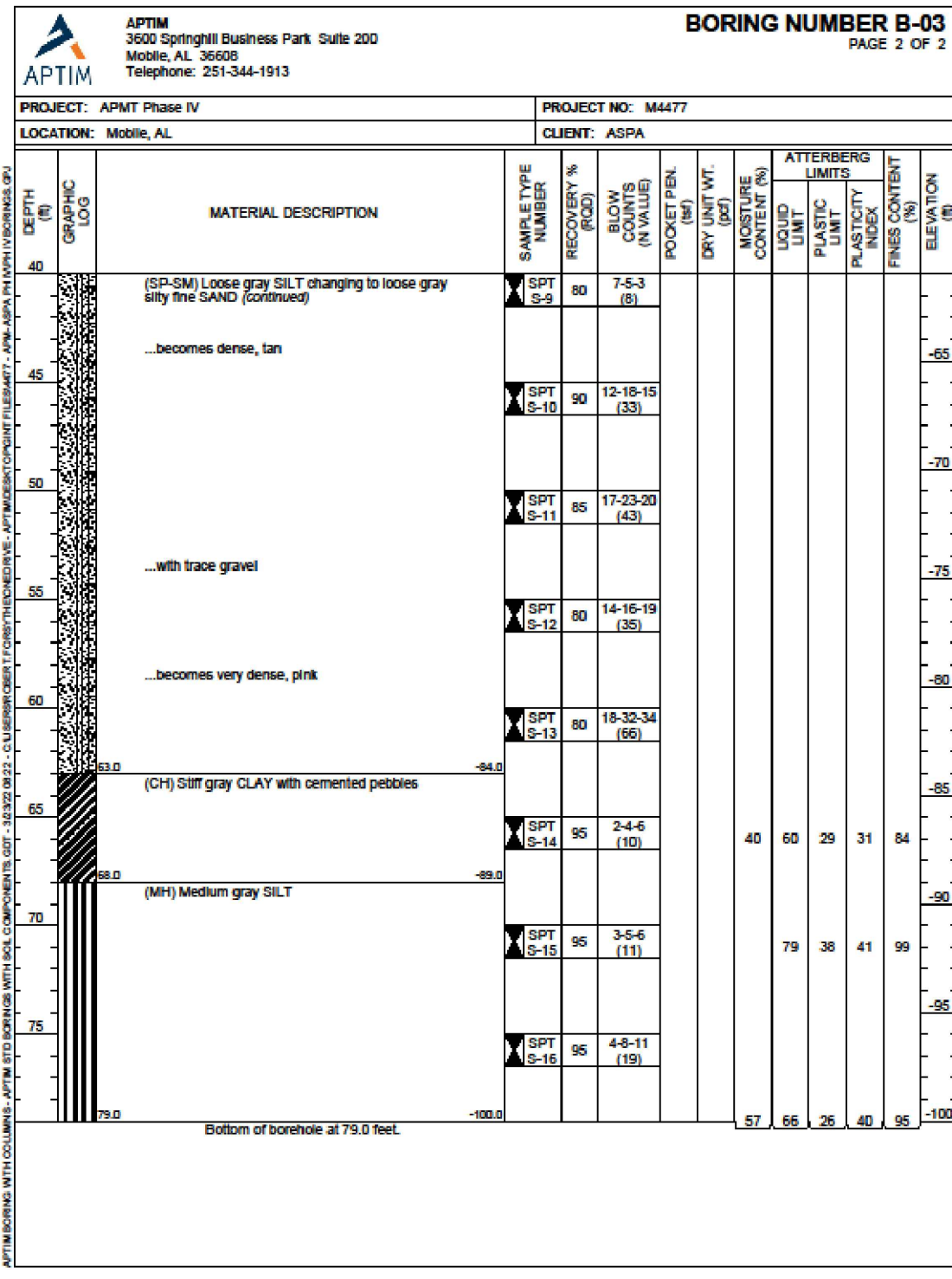
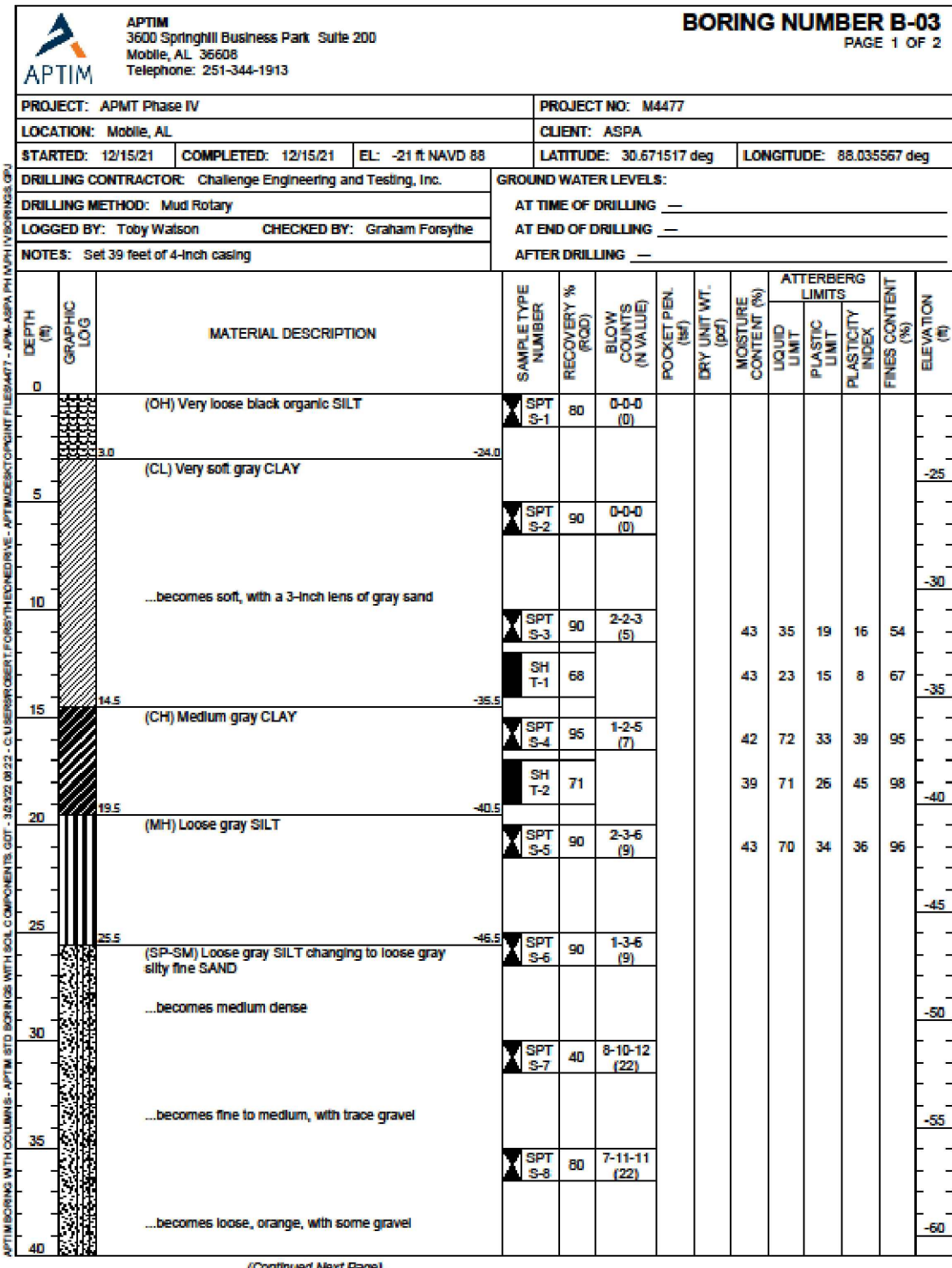
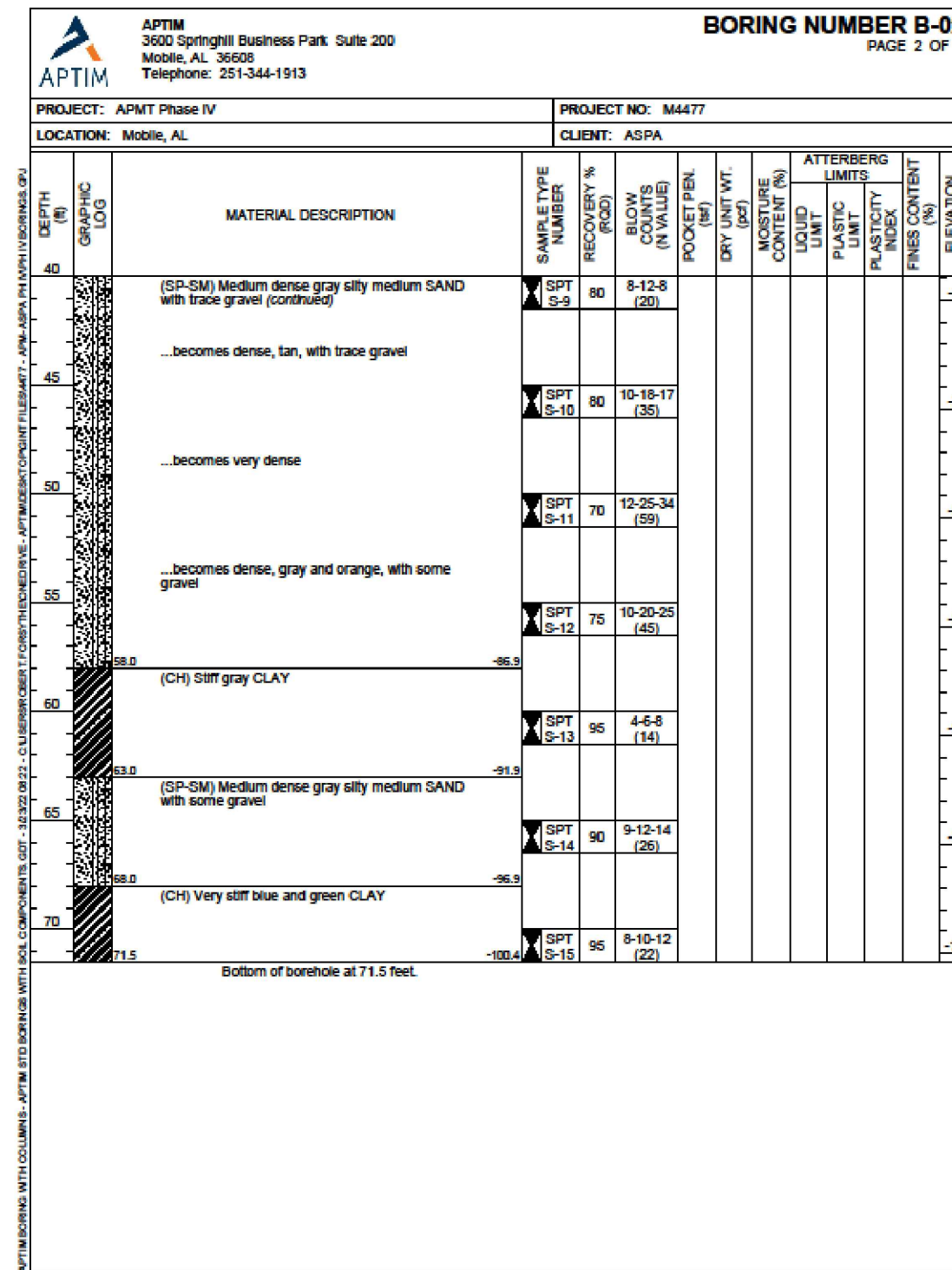
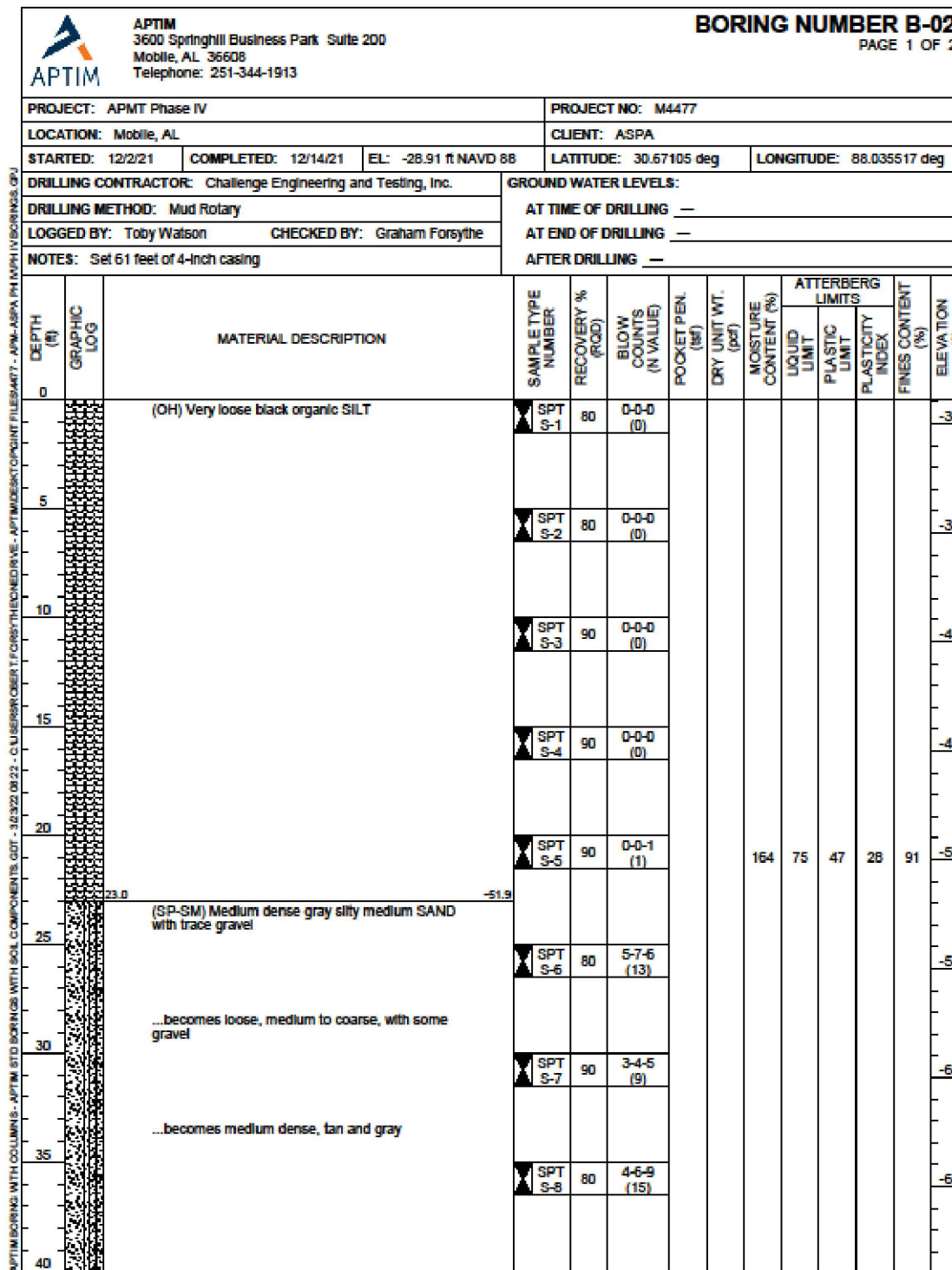
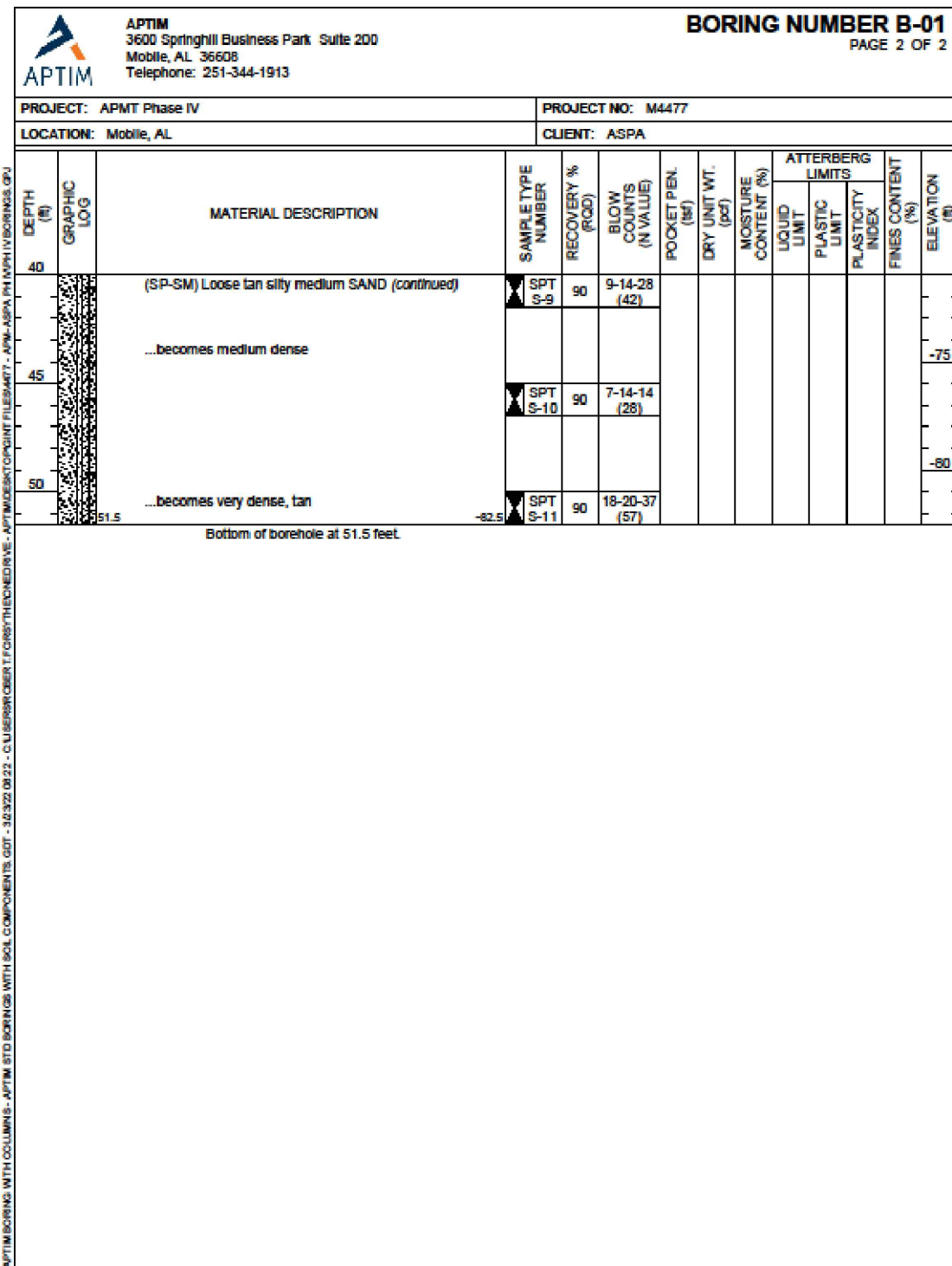
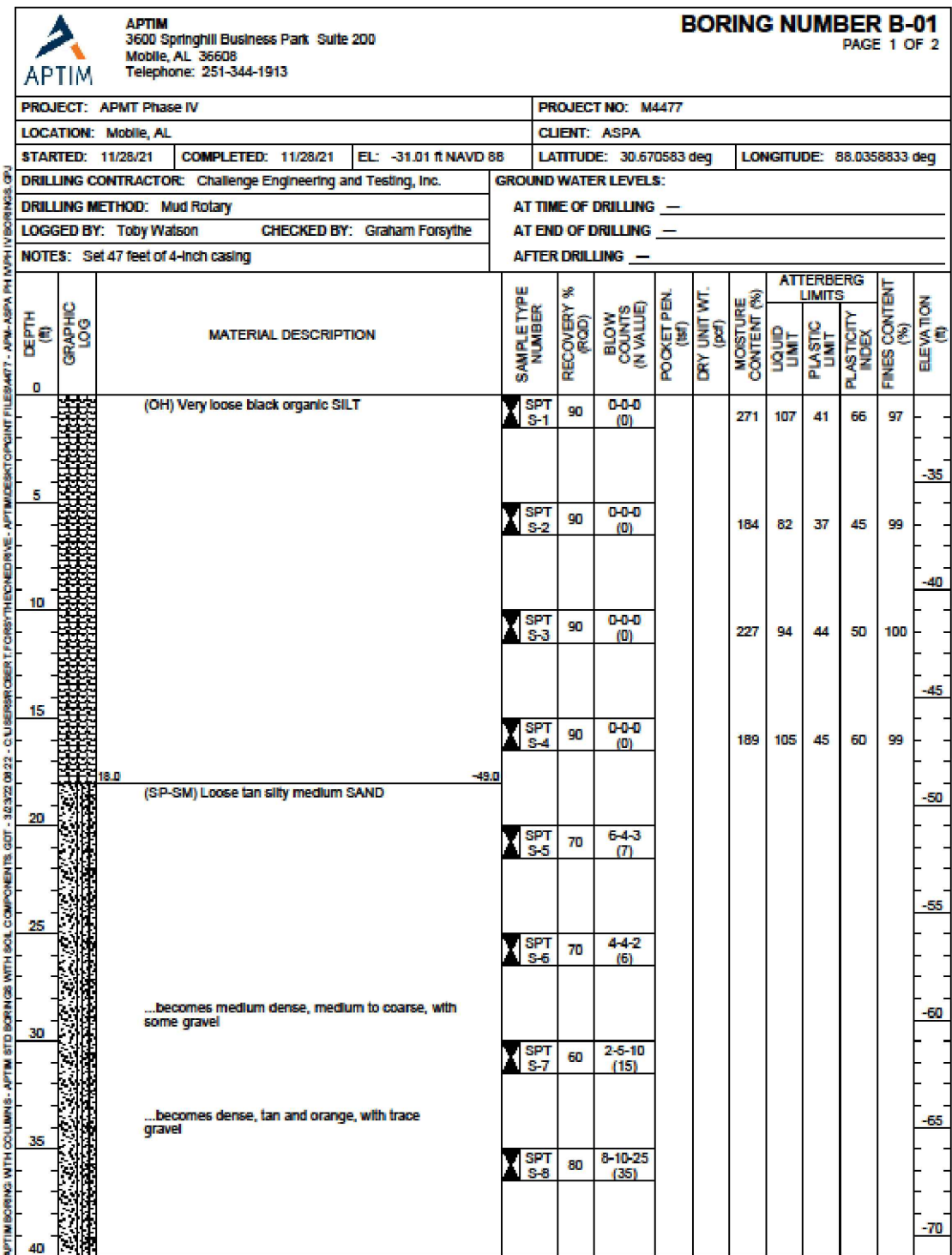
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.

SOIL BORING LOCATION PLAN

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 DWG NO: G4 REV: A





- NOTES
- SEE DRAWING S1 FOR SURVEY NOTES.
  - SEE DRAWING G4 FOR SOIL BORING LOCATIONS.

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE	DRAWN: LRH	CK'D: JEJ	APPD: RSG	DATE: 03/22/22	SCALE: NONE



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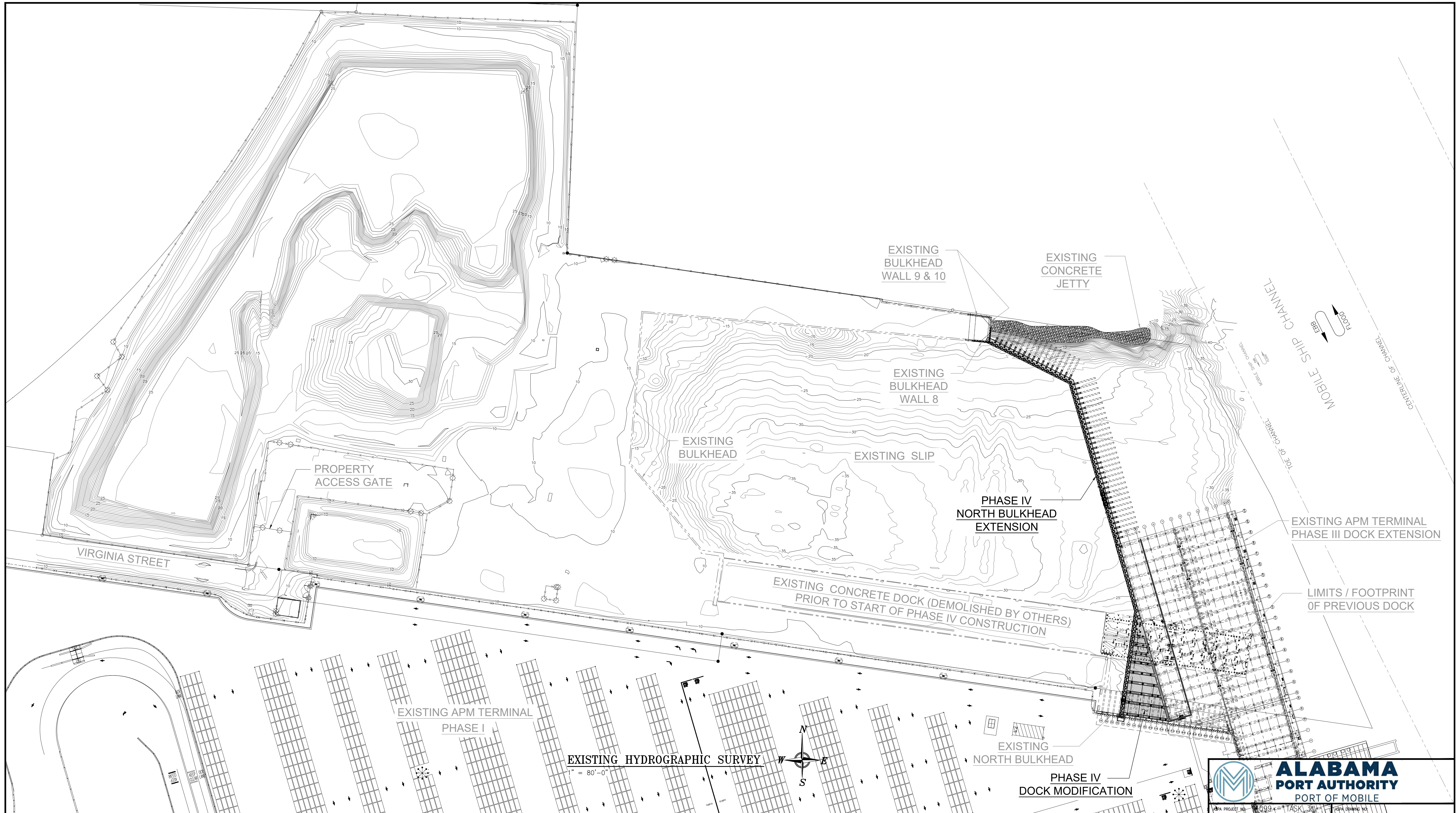
ASPA PROJECT NO: 11099 - TASK 3 | ASPA DWG NO:

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.

SOIL BORING LOGS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 | DWG NO: G5 | REV: A



NOTES

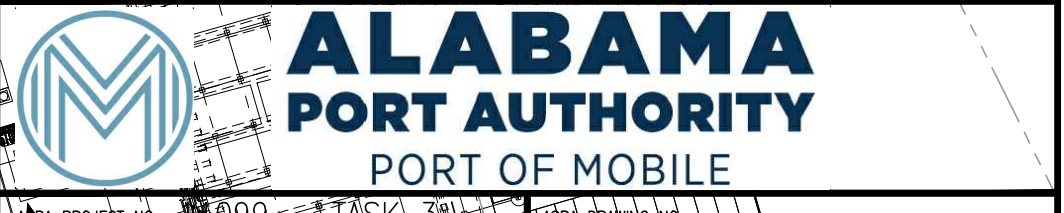
1. SEE DRAWING S1 FOR SURVEY NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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DRAWN: RST | CK'D: JEJ | APPD: RSG | DATE: 06/21/22 | SCALE: 1" = 80'



APMT PHASE IV DOCK MOD. & BULKHEAD EXT.

EXISTING HYDROGRAPHIC SURVEY

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 | DWG NO: G6 | REV: A

**CONCRETE NOTES:**

- ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 5000 PSI IN 28 DAYS.
- ALL LOADS (INCLUDING VEHICULAR AND BACKFILL) SHALL BE KEPT AWAY FROM NEW CONCRETE FOR A MINIMUM OF 7 DAYS.
- AT LOCATIONS NOTED ON THE DRAWINGS, WHERE NEW CONCRETE IS TO BE PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEAN AND FREE OF LAITANCE AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH. PRIOR TO PLACING THE NEW CONCRETE, AN EPOXY BONDING AGENT SHALL BE APPLIED TO THE CLEAN, ROUGHENED SURFACE. EPOXY BONDING AGENT SHALL BE "SIKADUR 32, HI-MOD LPL" OR APPROVED EQUAL.
- EPOXY MATERIAL FOR DRILLED AND GROUTED REBAR AND ANCHORS SHALL BE AS CALLED FOR ON THE DRAWINGS (HILTI) OR ENGINEER APPROVED EQUAL.
- CONCRETE DOCK SURFACE SHALL HAVE A BROOM FINISH. VERTICAL FACES SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.

**REINFORCING STEEL NOTES:**

- REINFORCING STEEL:
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD 318 AND THE CRSI MANUAL OF STANDARD PRACTICE. A MINIMUM OF 2" CONCRETE COVER SHALL BE PROVIDED AT ALL REINFORCING BARS EXCEPT THAT ½" OF COVER SHALL BE PROVIDED AT CRANE RAIL POCKETS AND OVER CONCRETE PILES.
  - REINFORCING DETAILER RESPONSIBLE FOR VERIFYING ALL REINFORCING DIMENSIONS.
  - SPLICES IN REINFORCING BARS SHALL BE CLASS "B" SPLICES AS DEFINED BY ACI 318 UNLESS NOTED OTHERWISE ON THE DRAWING.
  - MECHANICAL SPLICES SHALL BE ZAP SCREWLOK TYPE 2 BY BARSPLICE OR APPROVED EQUAL OF THE APPROPRIATE SIZE FOR THE BAR BEING SPLICED AS APPROVED BY THE ENGINEER.
  - EMBEDMENT AND LAP SPlice LENGTHS SHALL BE AS FOLLOWS:

MINIMUM SPLICE AND EMBEDMENT LENGTHS (INCHES)				
CONCRETE STRENGTH = 5,000 PSI				
BAR SIZE NUMBER	MINIMUM EMBEDMENT LENGTH	TOP BARS EMBEDMENT LENGTH	MINIMUM SPLICE LENGTH	TOP BARS SPLICE LENGTH
3	13	17	17	22
4	17	22	22	29
5	22	28	28	36
6	26	33	33	43
7	37	49	49	63
8	43	55	55	72
9	48	63	63	81
10	54	70	70	91
11	60	78	78	101

- WHERE BARS ARE OF DIFFERENT SIZE, THE LAP LENGTH SHALL BE BASED ON LARGER BAR, UNLESS NOTED OTHERWISE.
- THE SUBCONTRACTOR SHALL DETERMINE ANY SPLICE LOCATIONS IN ADDITION TO THOSE SHOWN, SUBJECT TO SHOP DRAWING APPROVAL.
- TOP BARS ARE HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 1 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW DEVELOPMENT LENGTH OR SPLICE.

**DESIGN LOADS:**

- BULKHEAD LOADING:  
SURCHARGE LOAD = 1,000 psf
- DOCK UNIFORM LOADING:  
DECK LIVE LOAD = 1,200 psf
- EQUIPMENT LOADINGS:
- TRUCK  
HS25 LOADING
- STRADDLE CARRIER  
CAPACITY = 88.2 kips  
CENTER TO CENTER TIRE TRACK = 13'-6"  
TIRES PER TRACK = 4  
TIRE SPACING = 6'-11"  
TIRE CONTACT PRESSURE = 145 psi  
TIRE CONTACT AREA = 201.4 square inches  
MINIMUM WHEEL LOAD = 18.2 kips  
MAXIMUM WHEEL LOAD = 28.2 kips

- CONTAINER HANDLER  
TAYLOR MACHINE WORKS TEC-950L
- MOBILE HARBOR CRANE  
OUTRIGGER LOAD = 187 kips (28" x 28" PAD)  
MOVING LOAD ON DECK BASED ON GOTTWALD HMK280 OR SIMILAR

ENVIRONMENTAL CONDITIONS:

- RIVER CURRENT  
5 feet per second
- FLOOD ELEVATION  
BASE FLOOD ELEVATION = +12.00 FEET (NAVD88)
- TEMPERATURE  
ΔT = 40°F

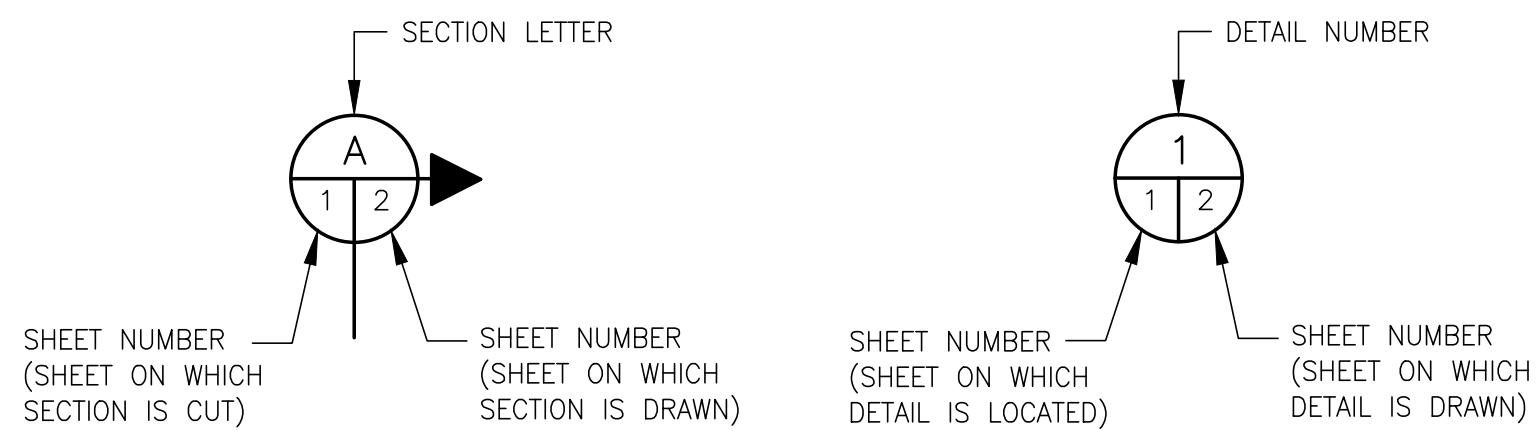
**GENERAL NOTES:**

- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ALABAMA PORT AUTHORITY (APA) PERSONNEL AND THE ENGINEER.
- ALL WORK SHALL CONFIRM TO ALL APPLICABLE CODES AND STANDARDS.
- AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT REVIEWS OF THESE CONDITIONS.
- CONSTRUCTION JOINTS:  
CONSTRUCTION JOINTS SHALL BE AT A MAXIMUM SPACING OF 70 FEET AND SHALL BE LOCATED AS APPROVED BY THE ENGINEER. REINFORCING BAR SPLICES SHALL NOT CROSS CONSTRUCTION JOINTS.
- PILE ALIGNMENT:  
IN ADDITION TO PILE DRIVING TEMPLATES, IT IS THE CONTRACTOR'S COMPLETE RESPONSIBILITY TO MAINTAIN THE PROPER ALIGNMENT OF PILES UNTIL ENCASED IN CONCRETE.
- THE CONTRACTOR SHALL PROVIDE AN ON-SITE OFFICE TRAILER FOR THE DURATION OF THE PROJECT. SEE SPECIFICATIONS.

**SURVEY NOTES:**

- SITE SURVEY PERFORMED FEBRUARY 2022 BY LAWLER AND COMPANY.
- HORIZONTAL COORDINATES SHOWN ON DRAWINGS ARE BASED ON THE ALABAMA STATE PLANE COORDINATE SYSTEM, WEST ZONE NAD83 (2011) ESTABLISHED ON SITE USING RTK GPS REFERENCING ALDOT CORS NETWORK.
- ELEVATIONS SHOWN ON DRAWINGS ARE IN FEET AND DECIMALS AND ARE BASED ON NAVD 1988 AND REFERENCING ALDOT CORS NETWORK AND ESTABLISHED ON SITE USING RTK GPS. TO CONVERT NAVD88 TO MLLW, ADD 0.41 FEET TO NAVD88.

TIDAL DATUM MEAN LOWER LOW WATER (MLLW) 0.00 FT.      PROJECT DATUM NORTH AMERICAN VERTICAL DATUM (NAVD 88) -0.41 FT.



**SECTION AND DETAIL SYSTEM**

NOTES										
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										<small>FOR: ALABAMA PORT AUTHORITY</small>
										<small>PROJECT NO: 4485    DWG NO: S1    REV: A</small>
										<small>FOR: ALABAMA PORT AUTHORITY</small>
										<small>PROJECT NO: 4485    DWG NO: S1    REV: A</small>

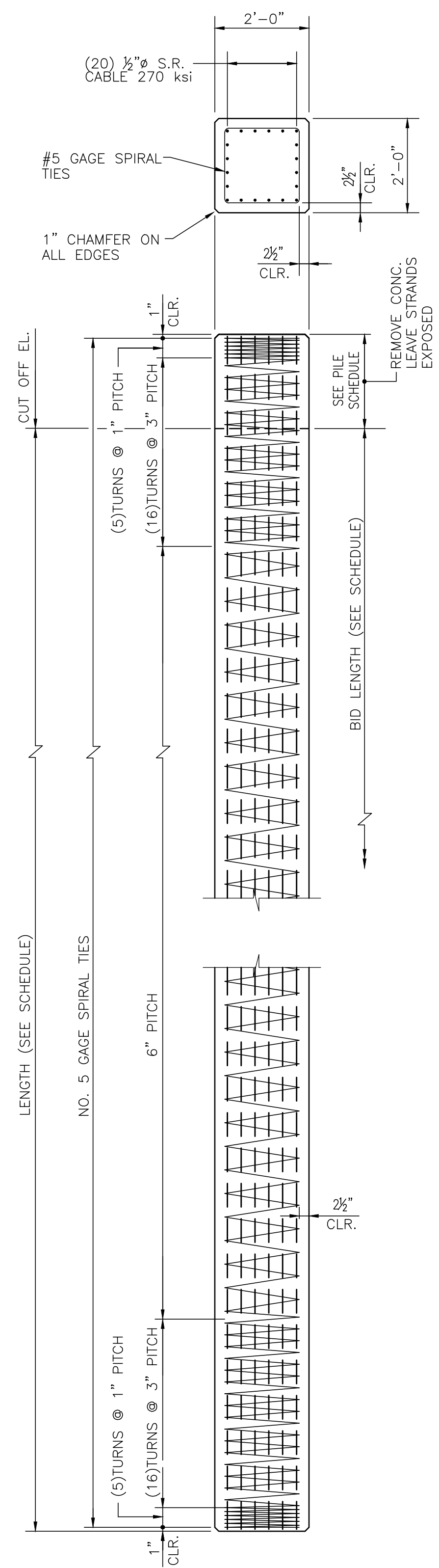
ASPA PROJECT NO: 11099 - TASK 3    ASPA DRAWING NO:

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.

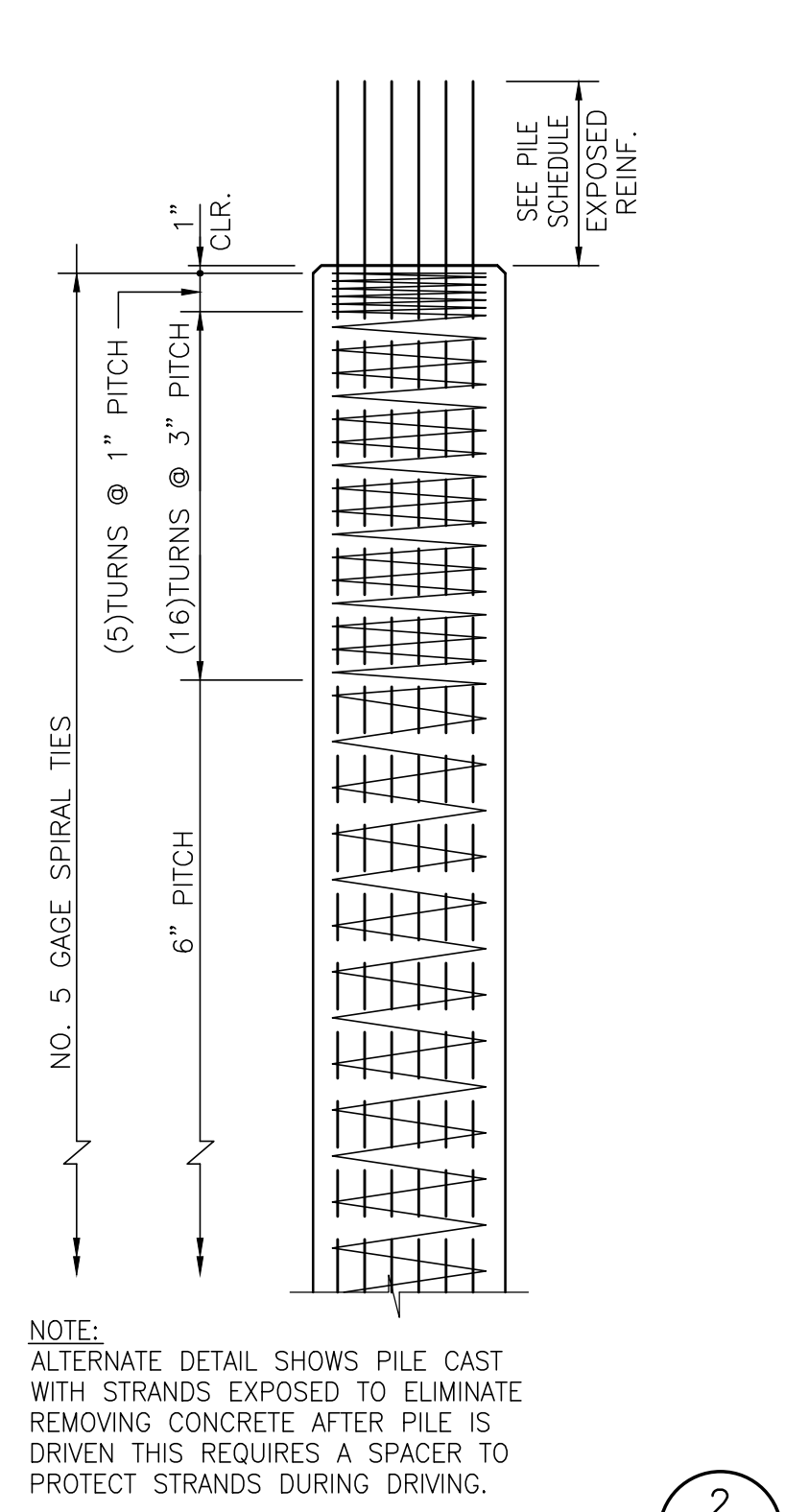
STRUCTURAL GENERAL NOTES

FOR: ALABAMA PORT AUTHORITY

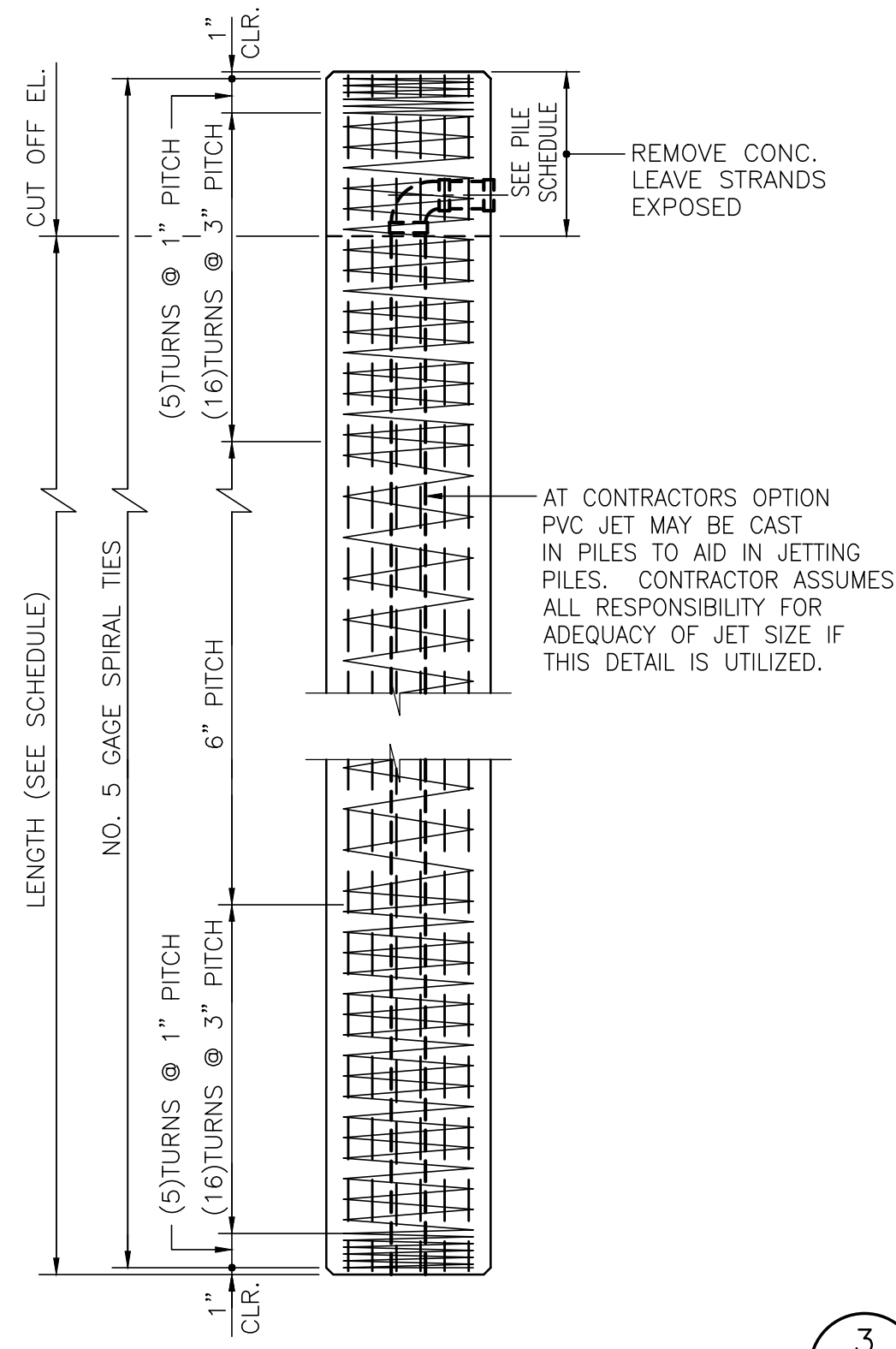
PROJECT NO: 4485    DWG NO: S1    REV: A



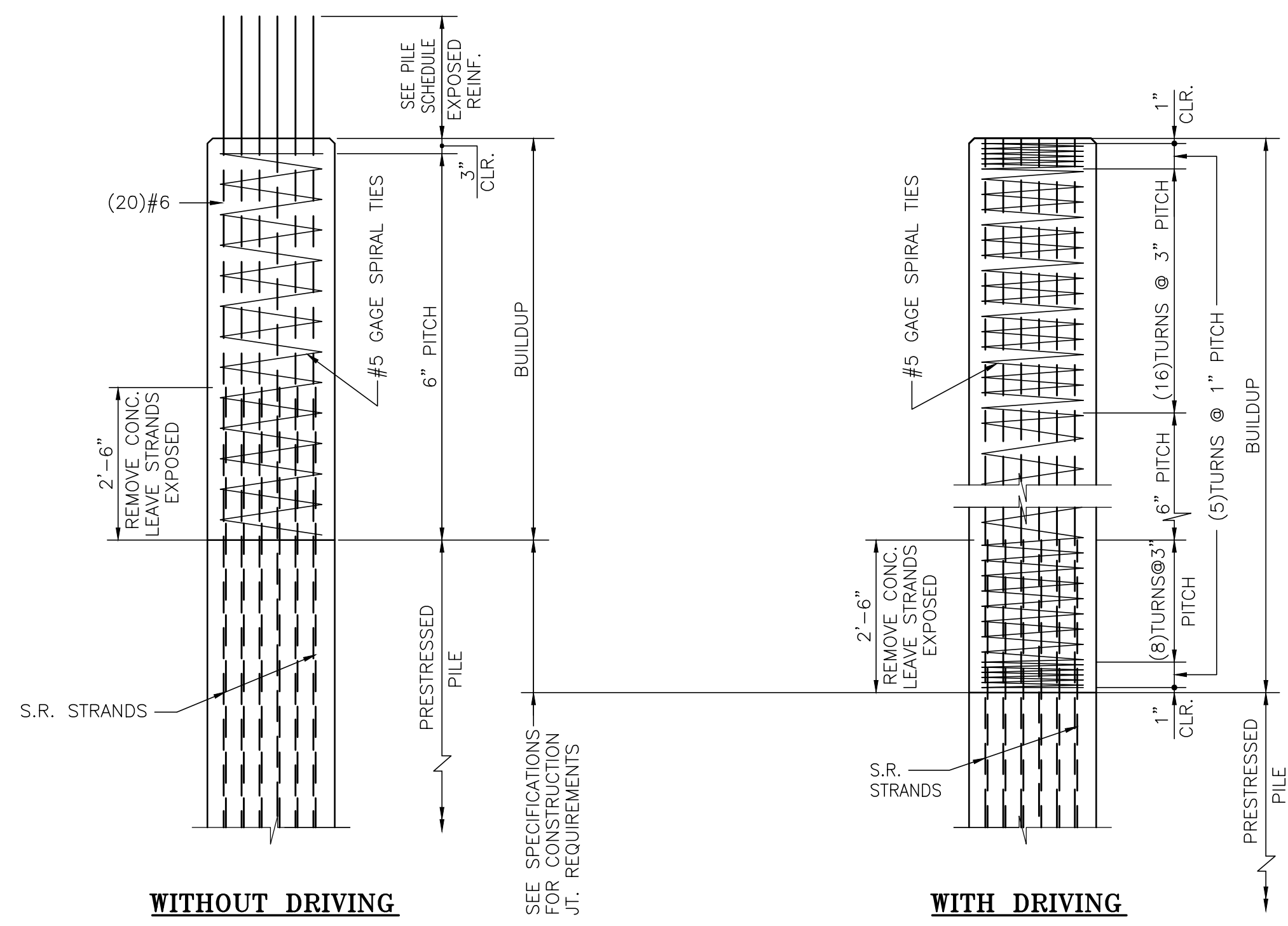
**24" PRESTRESSED PILE DETAIL**  
 $\frac{1}{2}" = 1'-0"$



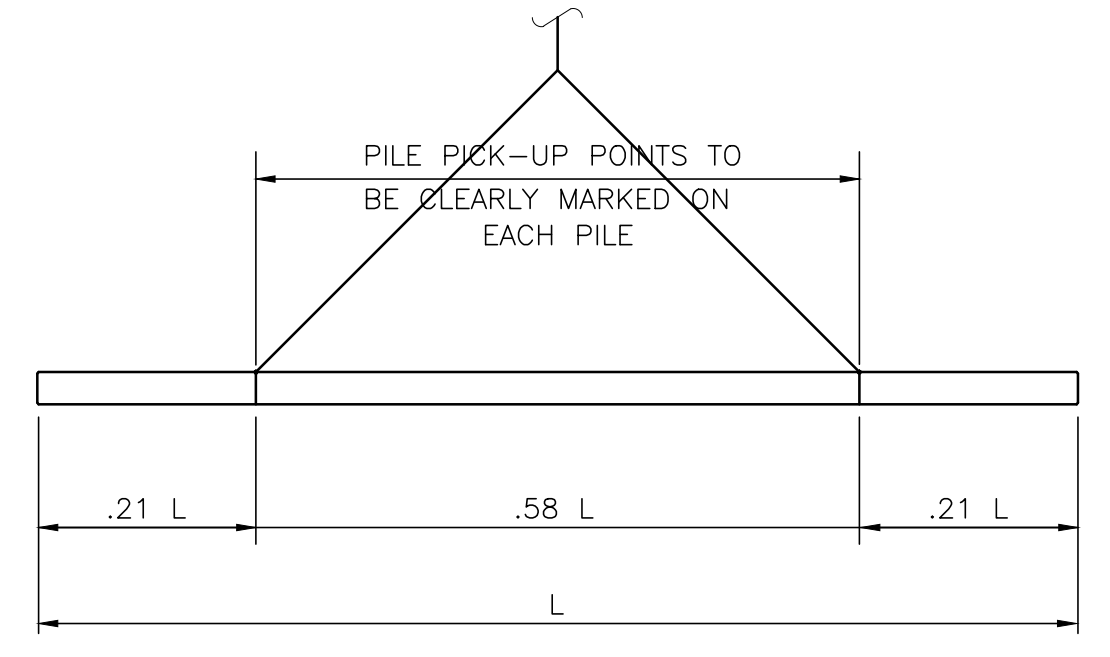
**ALTERNATE END DETAIL**  
 $\frac{1}{2}" = 1'-0"$



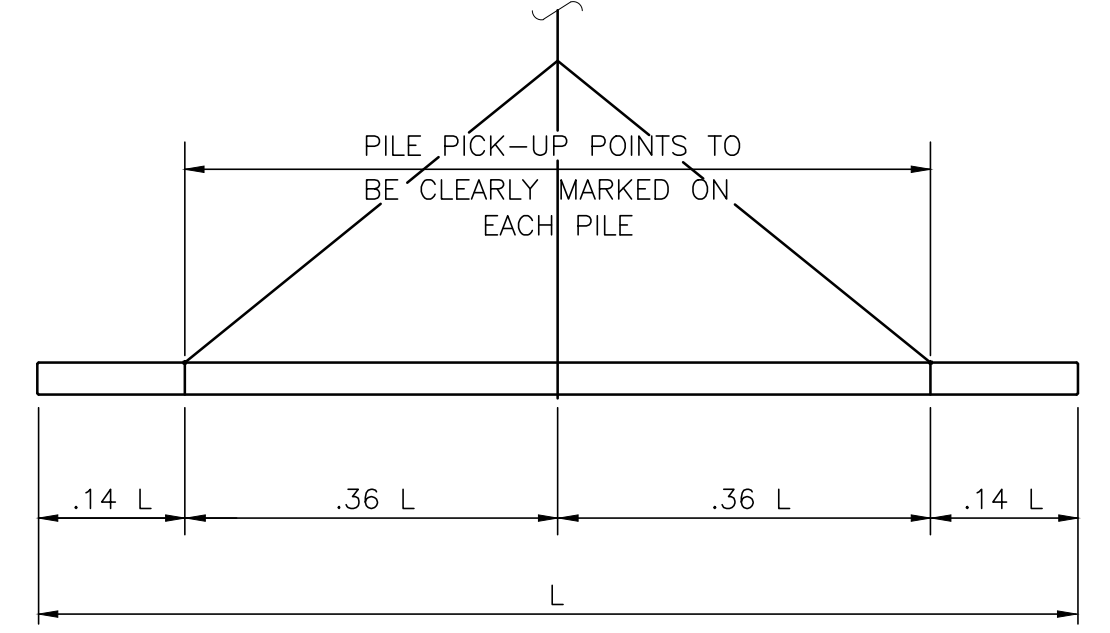
**ALTERNATE CAST IN JET (24" PILE)**  
 $\frac{1}{2}" = 1'-0"$



**24" PRESTRESSED PILE BUILDUP DETAIL**  
 $\frac{1}{2}" = 1'-0"$



**2 POINT PICK-UP FOR LENGTHS UP TO 90'-0"**



**3 POINT PICK-UP FOR LENGTHS OVER 90'-0"**

NOTE:  
 L = LENGTH OF PILE  
**PILE LIFTING DETAIL**  
 NTS

**CONCRETE PILE NOTES:**

1. PRESTRESSED PILES AND PILE BUILDUPS SHALL CONFORM TO THE REQUIREMENTS OF THE JOINT COMMITTEE OF AASHTO AND PCI FOR PRESTRESSED CONCRETE PILES UNLESS OTHERWISE NOTED OR SPECIFIED.
2. CONCRETE FOR PRESTRESSED PILES & PILE BUILDUPS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI IN 28 DAYS.
3. PRESTRESSING REINFORCEMENT SHALL CONFORM TO ASTM A416.
4. REINFORCING FOR PILE BUILDUPS SHALL CONFORM TO ASTM A615 GRADE 60.
5. ALL PILE RECORDS SHALL USE NUMBERING SYSTEM SHOWN ON DRAWING NO. S5 & S6.
6. IF FOR INSTALLATION PURPOSES (HAMMER, TEMPLATE CLEARANCES, ETC.) A LONGER PILE LENGTH IS REQUIRED FROM WHAT IS SHOWN, THE CONTRACTOR SHALL ALLOW FOR IT IN HIS BID.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING OF THE PILES AT THE CORRECT ELEVATION FOR DOCK CONSTRUCTION PURPOSES.
8. IN ADDITION TO DRIVING TEMPLATES, IT IS THE CONTRACTORS COMPLETE RESPONSIBILITY TO MAINTAIN THE PROPER ALIGNMENT OF THE CONCRETE PILES UNTIL ENCASED IN CONCRETE.

NOTES

1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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ASPA PROJECT NO: 11099 - TASK 3  
 ASPA DRAWING NO:  
 APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
 24" SQ. PRESTRESSED CONCRETE  
 PILE DETAILS  
 FOR: ALABAMA PORT AUTHORITY  
 PROJECT NO: 4485  
 DWG NO: S2  
 REV: A

**24" SQ. PRESTRESSED CONCRETE PILE SCHEDULE**

PILE NUMBERS	LOCATION SEE PILE PLAN DWG. S5 & S6	BATTER	APPROXIMATE TIP ELEVATION (FEET)	PILE CUT-OFF ELEVATION (FEET)	BID LENGTH (FEET)	MINIMUM REQ'D LENGTH OF STRAND EXPOSURE BEYOND CUT-OFF ELEVATION (FEET)	NUMBER OF PILES	TOTAL BID LENGTH (FEET)
P85 THRU P116	WALL 2	6:12	(-)110	(+)10.45	135	3.17	32	4320
P117 RHRU 127	WALL 3	6:12	(-)110	(+)10.45	135	3.17	11	1485
P128 THRU 133	WALL 3	4:12	(-)122	(+)10.32	140	3.17	6	840
P134 THRU 167	DOCK MODIFICATION	N/A	(-)115	(+)9.83	125	2.00	34	4250

**STEEL PIPE KING PILE AND SHEET PILE SCHEDULE**

PILE NUMBERS	LOCATION SEE PILE PLAN DWG. S5 & S6	PILE SIZE OR EQUAL	APPROXIMATE TIP ELEVATION (FEET)	PILE CUT-OFF ELEVATION (FEET)	NUMBER OF PILES	PILE LENGTH (FEET)
P1 THRU P34	WALL 1	PNZ54	(-)75	(+)10.00	34	85
SHEET PILE	WALL 1	NZ19	(-)57	(+)11.00	35 PAIR	68
P35 THRU P67	WALL 2	PNZ54	(-)80	(+)10.00	33	90
SHEET PILE	WALL 2	NZ19	(-)61	(+)11.00	34 PAIR	72
P68 THRU P84	WALL 3	PNZ54	(-)75	(+)10.00	17	85
SHEET PILE	WALL 3	NZ19	(-)74	(+)11.00	18 PAIR	85

NOTES

- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
- PROJECT DATUM IS BASED ON NAVD88.
- SEE DWG S5 & S6 FOR PILE PLAN.
- SEE DWG S7 THRU S9 & S15 FOR STEEL PIPE PAZ54/NZ19 SHEET PILE COMBINATION WALLS DETAILS.
- SEE DWG. S2 FOR 24" SQ. PRESTRESSED CONCRETE PILE DETAILS.

REFERENCE DRAWINGS

A

ISSUED FOR BID

RST

JEJ

RSG

04/05/24

NO.

REVISION

DRAWN

CK'D

APPD

DATE

DRAWN: RST

CK'D: JEJ

APPD: RSG

DATE: 06/21/22

SCALE: NONE



**ALABAMA  
PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 3

ASPA DRAWING NO:

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.

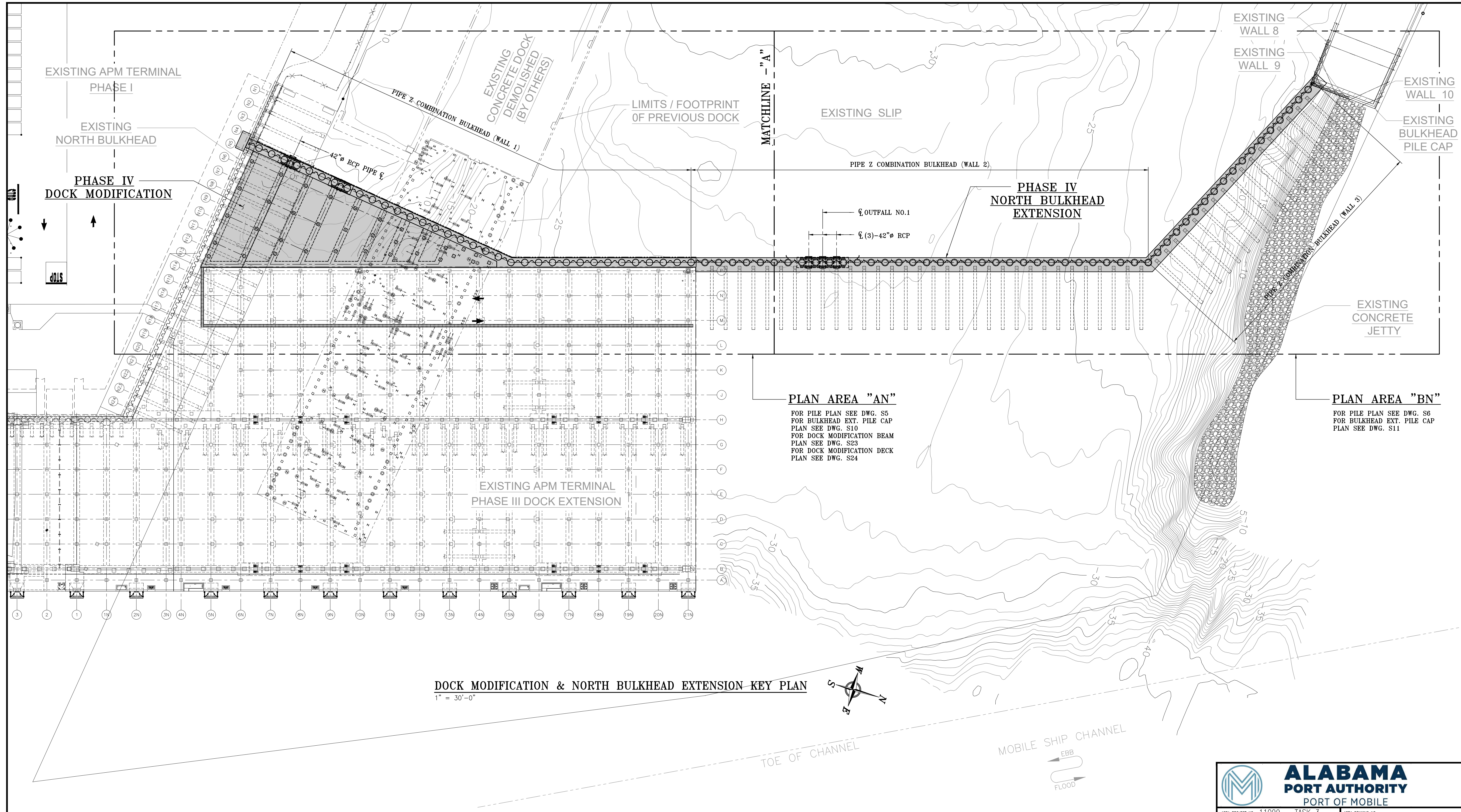
PILE SCHEDULES

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485

DWG NO: S3

REV: A



**DOCK MODIFICATION & NORTH BULKHEAD EXTENSION KEY PLAN**  
 1" = 30'-0"

**PLAN AREA "AN"**  
 FOR PILE PLAN SEE DWG. S5  
 FOR BULKHEAD EXT. PILE CAP  
 PLAN SEE DWG. S10  
 FOR DOCK MODIFICATION BEAM  
 PLAN SEE DWG. S23  
 FOR DOCK MODIFICATION DECK  
 PLAN SEE DWG. S24

**PLAN AREA "BN"**  
 FOR PILE PLAN SEE DWG. S6  
 FOR BULKHEAD EXT. PILE CAP  
 PLAN SEE DWG. S11

- NOTES**
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES & SURVEY NOTES.
  - SEE AREA PILE LOCATION PLANS ON DWG. S5 & S6 FOR STATE PLANE LOCATION COORDINATES.
  - SEE SURVEY NOTES ON DWG. S1 FOR STATE PLANE CONTROL POINTS.

NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	04/05/24	RST	JEJ	RSG

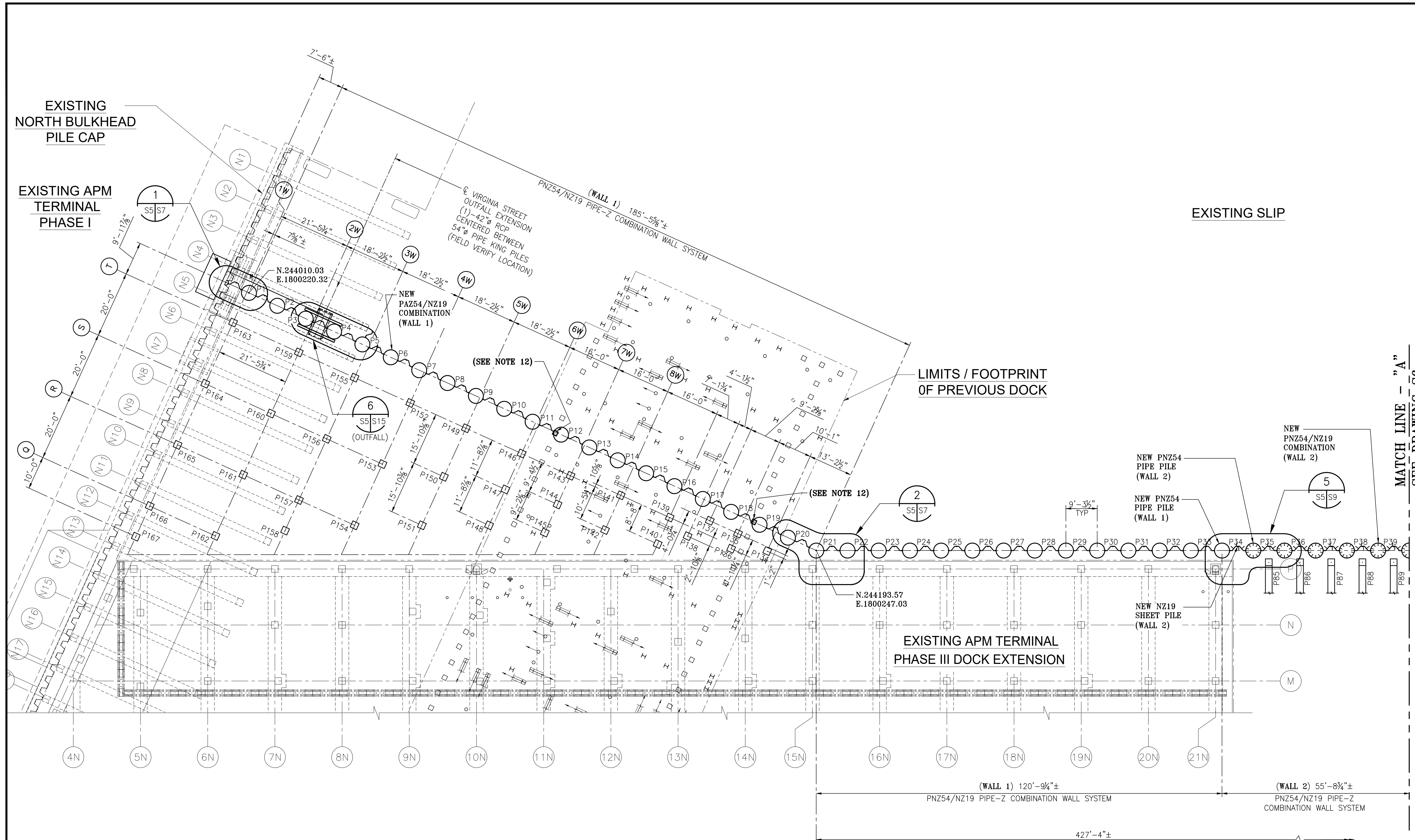
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DRAWN: RST CK'D: JEJ APPD: RSG DATE: 05/04/22 SCALE: 1" = 30'

**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

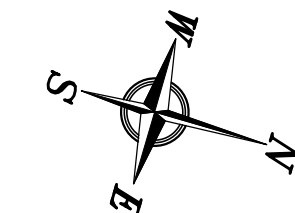
ASPA PROJECT NO: 11099 - TASK 3  
 ASPA DRAWING NO:  
**APMT PHASE IV DOCK MOD. & BULKHEAD EXT.**  
**DOCK MODIFICATION & BULKHEAD EXTENSION**  
**AREA KEY PLAN**  
 FOR: ALABAMA PORT AUTHORITY  
 PROJECT NO: 4485 DWG NO: S4 REV: A



**PILE NOTES (TYPICAL):**

- PIPE PILES SHALL CONFORM TO ASTM A252 GRADE 3 (60 ksi). SHEET PILES SHALL CONFORM TO ASTM A572, GRADE 60.
- PILING SHALL BE COATED BOTH SIDES WHERE INDICATED. COATING TYPE AND DIMENSIONS SHALL BE AS SPECIFIED.
- IT IS THE CONTRACTORS COMPLETE RESPONSIBILITY TO VERIFY THE QUANTITY OF PILING REQUIRED AND TO PROVIDE THE PROPER QUANTITY FOR CORRECT WALL TIE-INS AND TO ACHIEVE WALL DIMENSIONS AS SHOWN. DRIVING TOLERANCES SHALL BE ACCOUNTED FOR.
- CONTRACTOR SHALL ALSO PROVIDE (1) ADDITIONAL PAIR OF NZ19 SHEETS BEYOND WHAT IS REQUIRED FOR CORRECT DIMENSIONAL TIE-IN AS STATED IN NOTE 3. (ADDITIONAL PAIR SHALL BE 85 FT. IN LENGTH)
- CONTRACTOR SHALL MONITOR DIMENSIONS OF SHEET PILE WALLS DURING INSTALLATION & MODIFY TIE-IN CONNECTIONS ACCORDINGLY.
- IT IS THE CONTRACTORS COMPLETE RESPONSIBILITY TO MAINTAIN THE PROPER ALIGNMENT OF THE SHEET PILE WALLS UNTIL ENCASED IN CONCRETE.
- (WALL 1)  
PIPE PILE = 54"Ø x 0.625" PIPE AND IS 85 FT. IN LENGTH. SHEET PILE = NZ19 AND IS 68 FT. IN LENGTH.
- (WALL 2)  
PIPE PILE = 54"Ø x 0.625" PIPE AND IS 90 FT. IN LENGTH. SHEET PILE = NZ19 AND IS 72 FT. IN LENGTH
- (WALL 3)  
PIPE PILE = 54"Ø x 0.625" PIPE AND IS 85 FT. IN LENGTH. SHEET PILE = NZ19 AND IS 85 FT. IN LENGTH
- ALL PIPE AND SHEET PILING SHALL BE DOMESTICALLY (U.S.) PRODUCED.
- STUDS SHALL BE CONNECTED TO PIPE PILES IN STRICT ACCORDANCE WITH MANUFACTURES GUIDELINES.
- CONTRACTOR SHALL REMOVE (2) EXISTING BUILT-UP STEEL PILING PREVIOUSLY CUT OFF AT THE MUDLINE ELEVATION, IN THE AREAS OF P12 AND P19. SEE REFERENCE DRAWINGS FOR EXISTING PILE DETAILS.

**DOCK MODIFICATION & BULKHEAD PIPE Z COMBINATION WALL - PILE PLAN - AREA "AN"**  
1/16"=1'-0"



NOTES	REFERENCE DRAWINGS	NO.	REVISION	APPD.	DATE
1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES & SURVEY NOTES. 2. PROJECT DATUM IS BASED ON NAVD88. 3. SEE DWG S3 FOR PILE SCHEDULES	4111-D6 MAIN WHARF PILE DEMO PLAN & SCHEDULE / APMT DOCK EXTENSION PHASE III (2018) 4111-D7 MAIN WHARF PILE DEMO DETAILS / APMT DOCK EXTENSION PHASE III (2018) 417B-S27 MAIN WHARF PILE DRIVING POINT DETAILS / ORE TERMINAL MAIN (1952)				
417B-S16 NORTH BARGE WHARF SECTIONS & DETAILS / ORE TERMINAL PROJECT (1952)	417B-S7 MAIN WHARF SECTIONS & PILE DETAILS / ORE TERMINAL PROJECT (1952)				
417B-S15 NORTH BARGE WHARF TRANSVERSE SECTIONS / ORE TERMINAL PROJECT (1952)	417B-S6 MAIN WHARF SECTIONS & PILE DETAILS / ORE TERMINAL PROJECT (1952)				
417B-S14 NORTH BARGE WHARF PILE PLAN & ELEVATION / ORE TERMINAL PROJECT (1952)	417B-S2 MAIN WHARF PILE PLAN & DETAILS / ORE TERMINAL PROJECT (1952)	A	ISSUED FOR BID	RST	JEU
REFERENCE DRAWINGS (CONTINUED)	REFERENCE DRAWINGS	NO.	REVISION	APPD.	DATE

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DATE: 06/22/22 SCALE: 1/16"=1'-0"

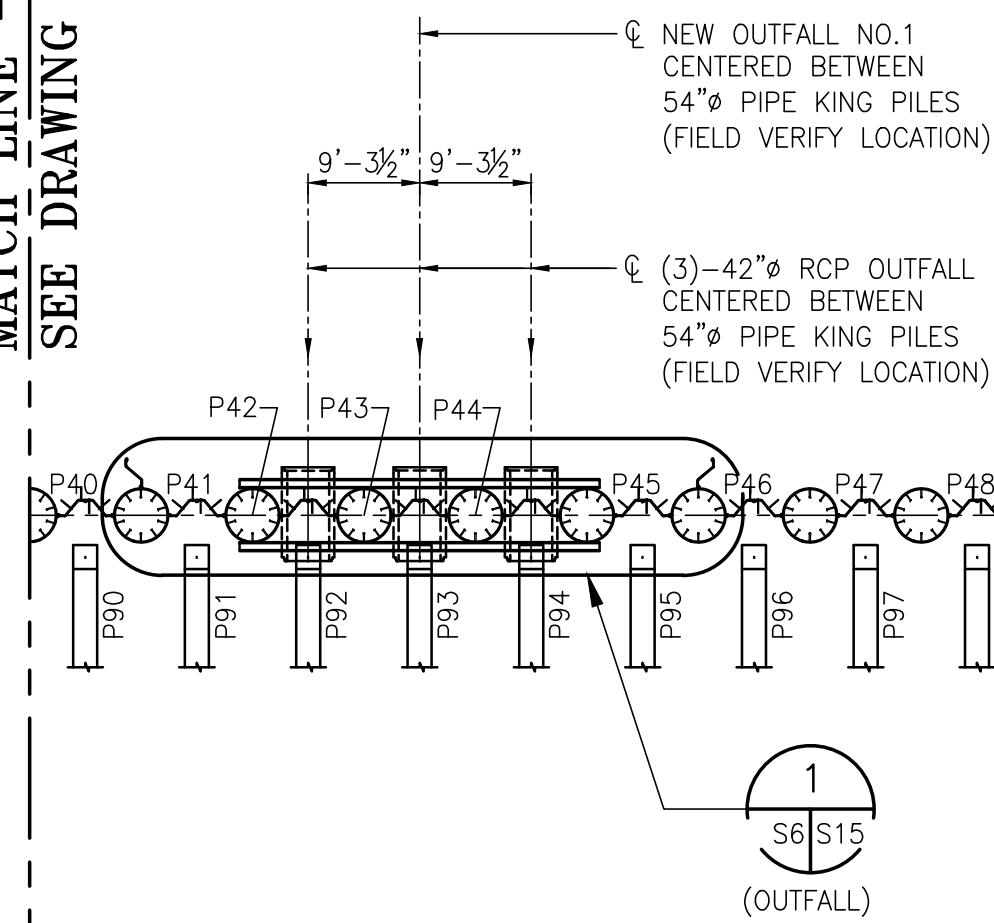
ASPA PROJECT NO: 11099 - TASK 3  
ASPA DRAWING NO: 4485 - S5

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
PILE PLAN AREA "AN"

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 DWG NO: S5 REV: A

MATCH LINE - "A"  
SEE DRAWING S5



EXISTING SLIP

NEW PNZ54/NZ19  
COMBINATION  
(WALL 2)

(3)  
S6/S8

NEW PNZ54/NZ19  
COMBINATION  
(WALL 3)

EXISTING  
WALL 8 &  
WALER

EXISTING  
TIE RODS

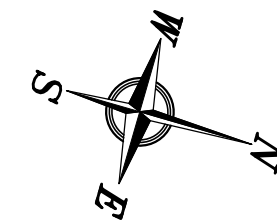
EXISTING  
WALL 9 &  
WALER

EXISTING  
WALL 10 &  
WALER

EXISTING  
BULKHEAD  
PILE CAP

EXISTING  
CONCRETE  
JETTY

**PIPE Z COMBINATION BULKHEAD WALL - PILE PLAN - AREA "BN"**  
1/16"=1'-0"



NOTES	REFERENCE DRAWINGS (CONTINUED)
1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES & SURVEY NOTES. 2. PROJECT DATUM IS BASED ON NAVD88. 3. SEE DWG S3 FOR PILE SCHEDULES	
1800-SP-T1 REV. 0 TIEBACK TEST PLAN \ BLUE CREEK COAL TERMINAL (2012)	
1800-SP-WE1 REV. A SHEET PILE WALER PLAN \ BLUE CREEK COAL TERMINAL (2012)	

REFERENCE DRAWINGS	NO.	REVISION	ISSUED FOR BID	DATE	DRAWN	CK'D	APPD
1800-SP-WSD1 REV. A WALER SHOP DRAWING \ BLUE CREEK COAL TERMINAL (2012)							
1800-SP-S9A REV. 0 SHEET PILE WALL DETAILS \ BLUE CREEK COAL TERMINAL (2012)							
1800-SP-S9 REV. 1 SHEET PILE WALL DETAILS \ BLUE CREEK COAL TERMINAL (2012)							
1800-SP-S8 REV. 0 SHEET PILE WALL DETAILS \ BLUE CREEK COAL TERMINAL (2012)							
1800-SP-S6 REV. 0 SECTIONS & DETAILS WALL 8, 9, 10 \ BLUE CREEK COAL TERMINAL (2012)							
1800-SP-C2 REV. 4 SHEET PILE PLAN (ALTERNATE) \ BLUE CREEK COAL TERMINAL (2012)	A	ISSUED FOR BID	RST	04/05/24	JEU	RSG	

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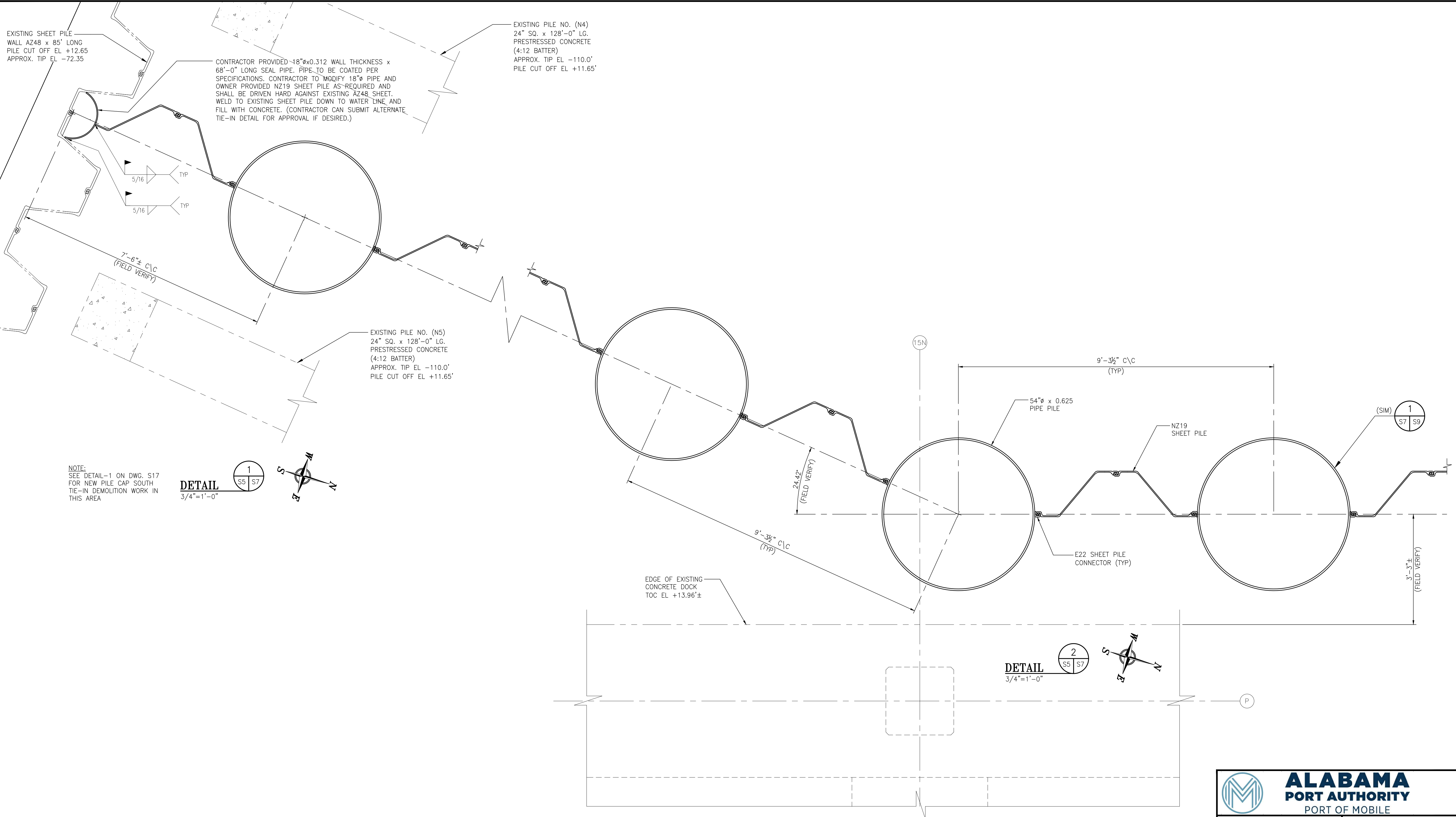
DATE: 06/22/22 SCALE: 1/16"=1'-0"

**ALABAMA**  
PORT AUTHORITY  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 3  
ASPA DRAWING NO:

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.	
PILE PLAN AREA "BN"	
PROJECT NO: 4485	DWG NO: S6
REV: A	





EXISTING SHEET PILE  
WALL AZ48 x 85' LONG  
PILE CUT OFF EL +12.65  
APPROX. TIP EL -72.35

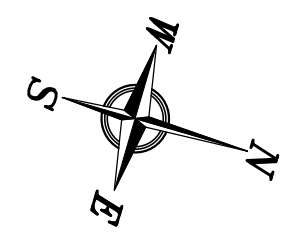
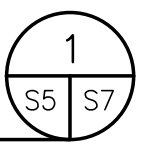
CONTRACTOR PROVIDED 18"Øx0.312 WALL THICKNESS x  
68'-0" LONG SEAL PIPE. PIPE TO BE COATED PER  
SPECIFICATIONS. CONTRACTOR TO MODIFY 18"Ø PIPE AND  
OWNER PROVIDED NZ19 SHEET PILE AS REQUIRED AND  
SHALL BE DRIVEN HARD AGAINST EXISTING AZ48 SHEET.  
WELD TO EXISTING SHEET PILE DOWN TO WATER LINE AND  
FILL WITH CONCRETE. (CONTRACTOR CAN SUBMIT ALTERNATE  
TIE-IN DETAIL FOR APPROVAL IF DESIRED.)

EXISTING PILE NO. (N4)  
24" SQ. x 128'-0" LG.  
PRESTRESSED CONCRETE  
(4:12 BATTER)  
APPROX. TIP EL -110.0'  
PILE CUT OFF EL +11.65'

EXISTING PILE NO. (N5)  
24" SQ. x 128'-0" LG.  
PRESTRESSED CONCRETE  
(4:12 BATTER)  
APPROX. TIP EL -110.0'  
PILE CUT OFF EL +11.65'

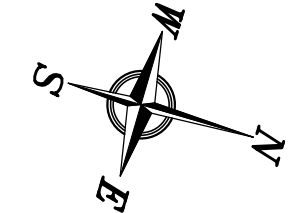
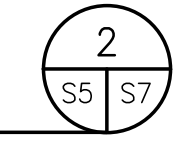
NOTE:  
SEE DETAIL-1 ON DWG. S17  
FOR NEW PILE CAP SOUTH  
TIE-IN DEMOLITION WORK IN  
THIS AREA

**DETAIL**  
3/4"=1'-0"



EDGE OF EXISTING  
CONCRETE DOCK  
TOC EL +13.96±

**DETAIL**  
3/4"=1'-0"



**ALABAMA**  
**PORT OF MOBILE**

ASPA PROJECT NO: 11099 - TASK 3 | ASPA DRAWING NO:


APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION  
PIPE Z COMBINATION WALL DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 | DWG NO: S7 | REV: A

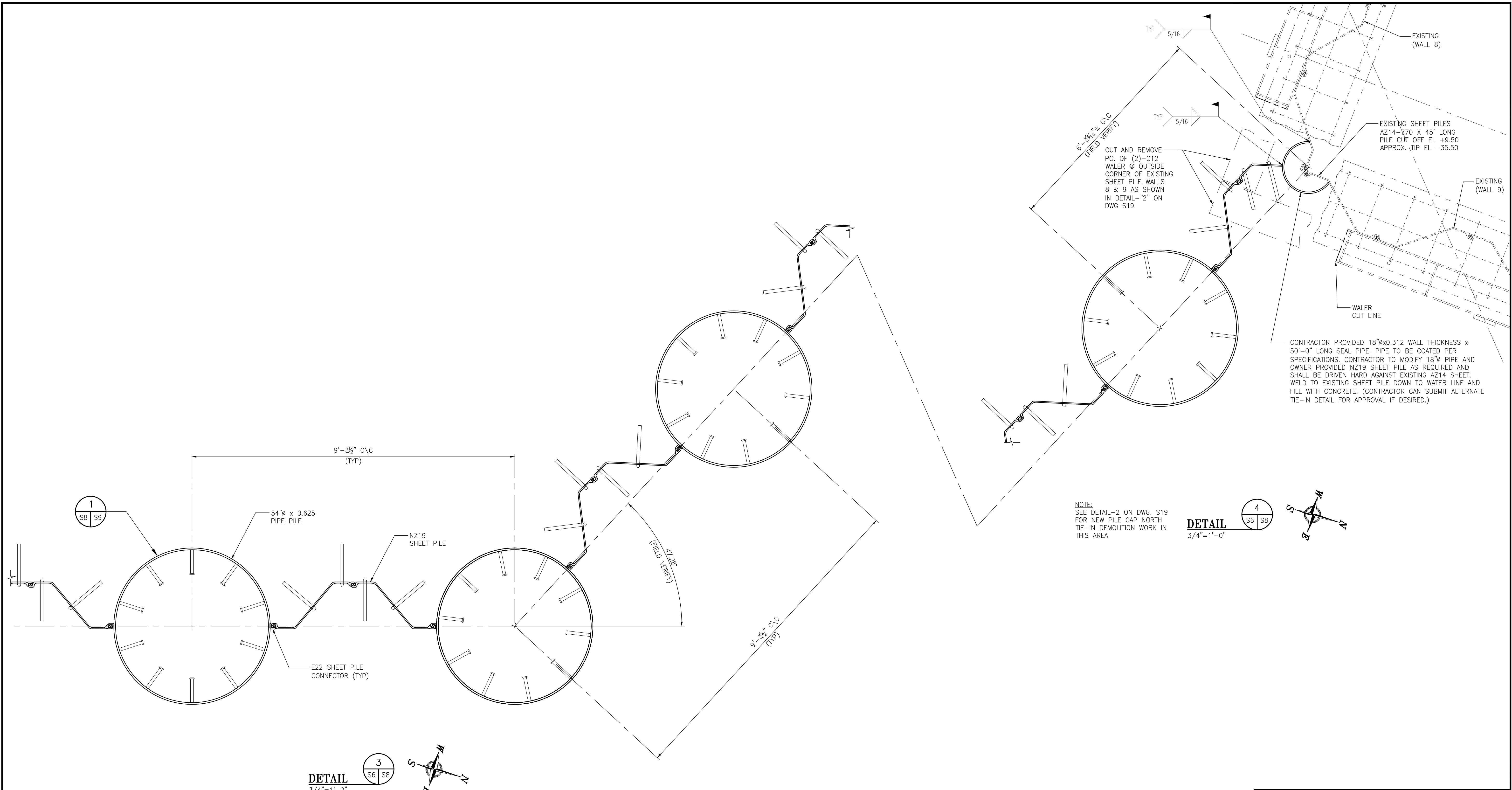
NOTES	
1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.	

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24



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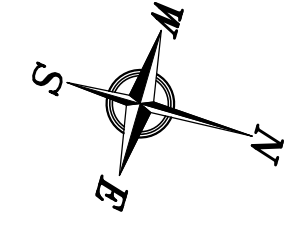
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1  
S8 S9

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

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



NOTES  
1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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DRAWN: RST CK'D: JEJ APPD: RSG DATE: 05/05/22 SCALE: 3/4"=1'-0"

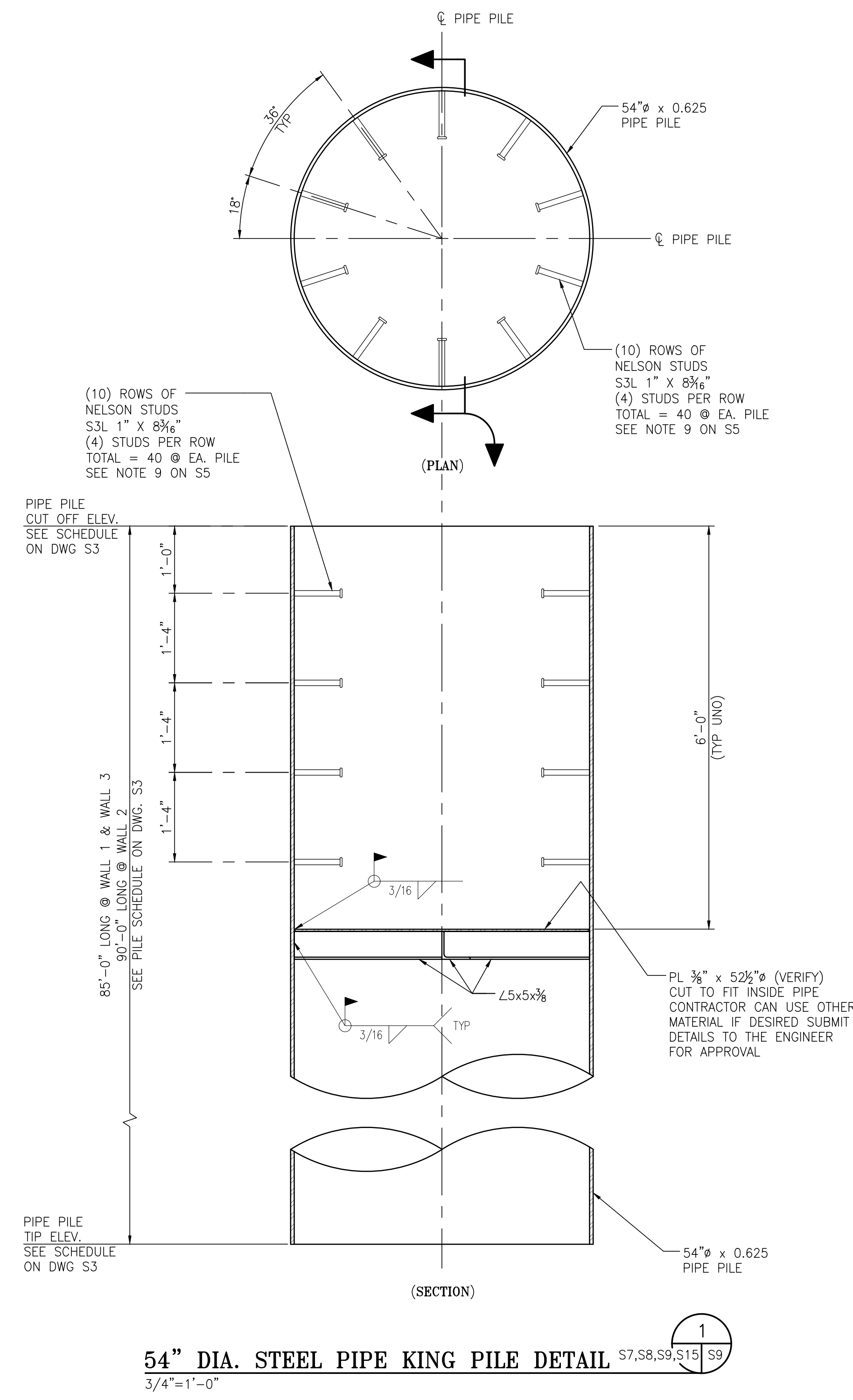
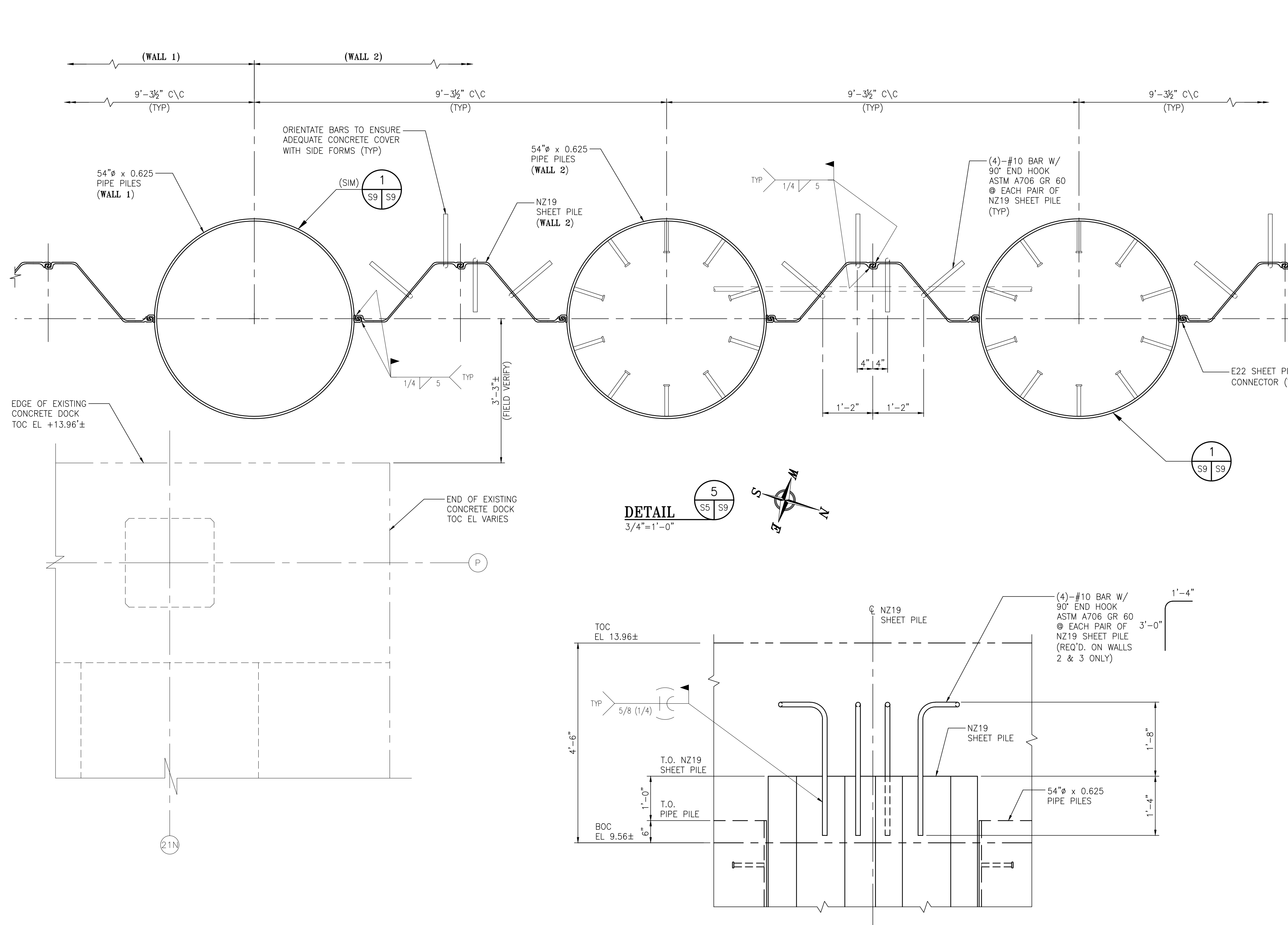
**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 3 ASPA DRAWING NO:

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION  
PIPE Z COMBINATION WALL DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 DWG NO: S8 REV: A



NOTE:  
SHEAR STUDS REQUIRED AT PIPE PILE HEADS FOR WALL 2 AND WALL 3 ONLY

**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 3 | ASPA DRAWING NO:

NOTES

1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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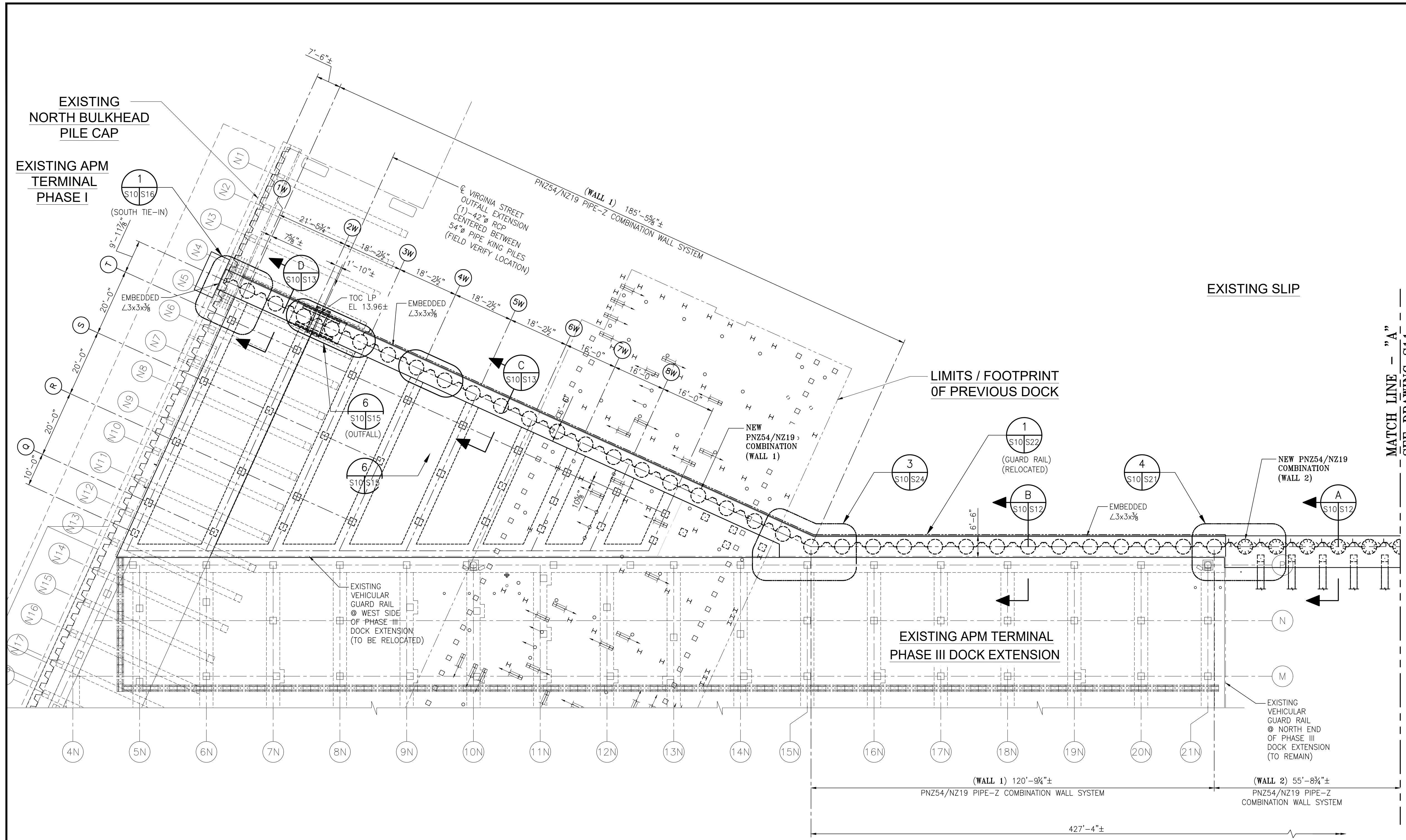
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DRAWN: RST | CK'D: JEJ | APPD: RSG | DATE: 05/05/22 | SCALE: 3/4"=1'-0"

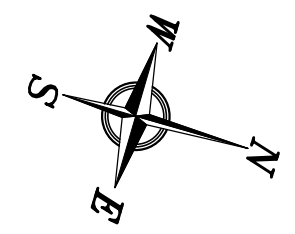
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION  
PIPE Z COMBINATION WALL DETAILS

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 | DWG NO: S9 | REV: A



**DOCK MODIFICATION & BULKHEAD EXTENSION PILE CAP PLAN AREA "AN"**  
 1/16"=1'-0"



NOTES

- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES & SURVEY NOTES.
- SEE AREA PILE LOCATION PLANS ON DWG. S5 & S6 FOR STATE PLANE LOCATION COORDINATES.
- SEE SURVEY NOTES ON DWG. S1 FOR STATE PLANE CONTROL POINTS.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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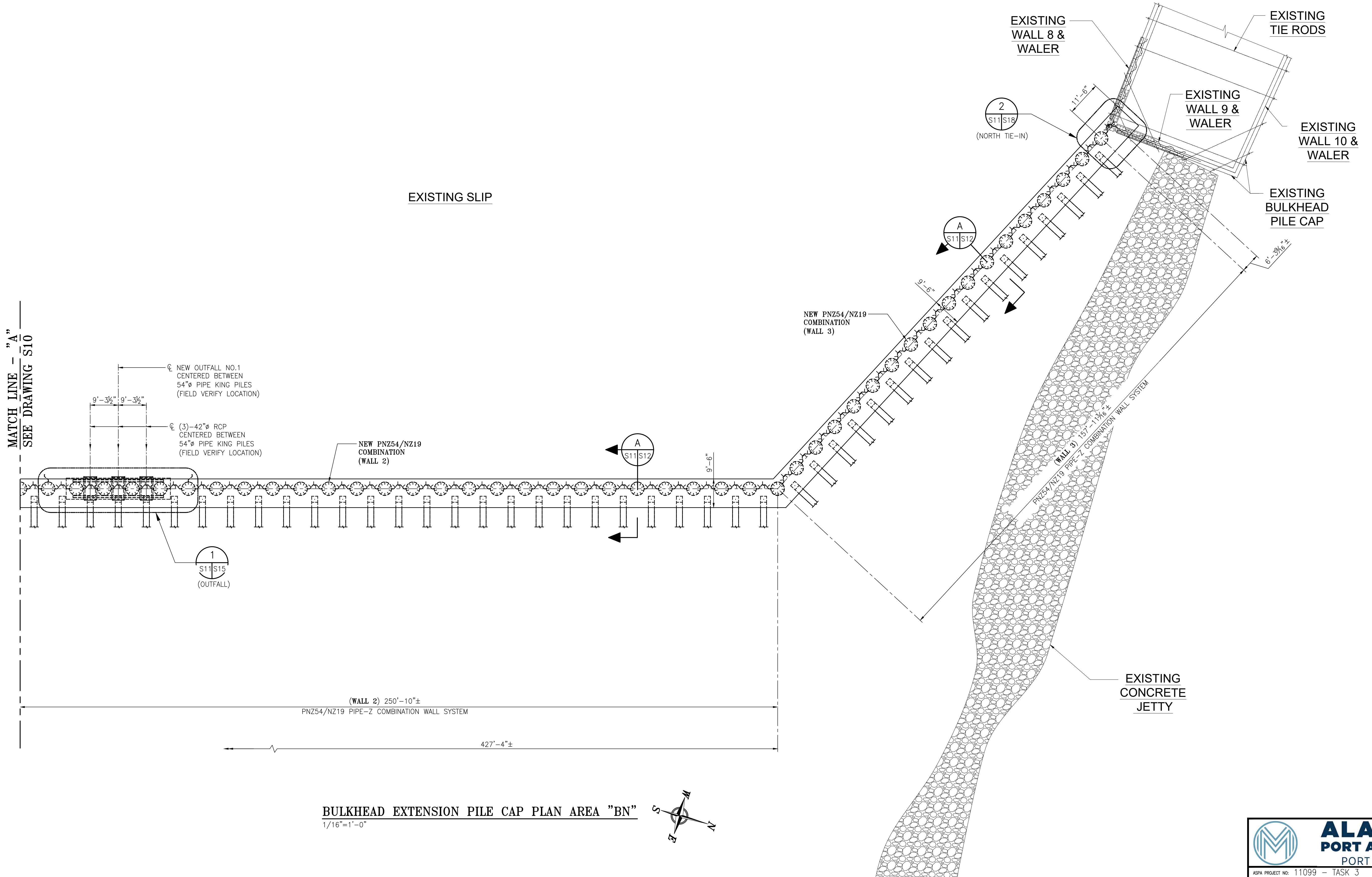
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ASPA PROJECT NO: 11099 - TASK 3 ASPA DRAWING NO:

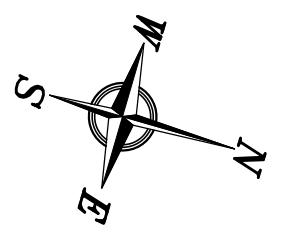
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
 BULKHEAD EXTENSION PILE CAP  
 PLAN AREA "AN"

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4485 DWG NO: S10 REV: A




**BULKHEAD EXTENSION PILE CAP PLAN AREA "BN"**  
 1/16"=1'-0"



MATCH LINE - "A"  
SEE DRAWING S10

NOTES	
1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES & SURVEY NOTES.	
2. SEE AREA PILE LOCATION PLANS ON DWG. S5 & S6 FOR STATE PLANE LOCATION COORDINATES.	
3. SEE SURVEY NOTES ON DWG. S1 FOR STATE PLANE CONTROL POINTS.	

REFERENCE DRAWINGS	NO.	REVISION	DRAWN	CK'D	APPD	DATE



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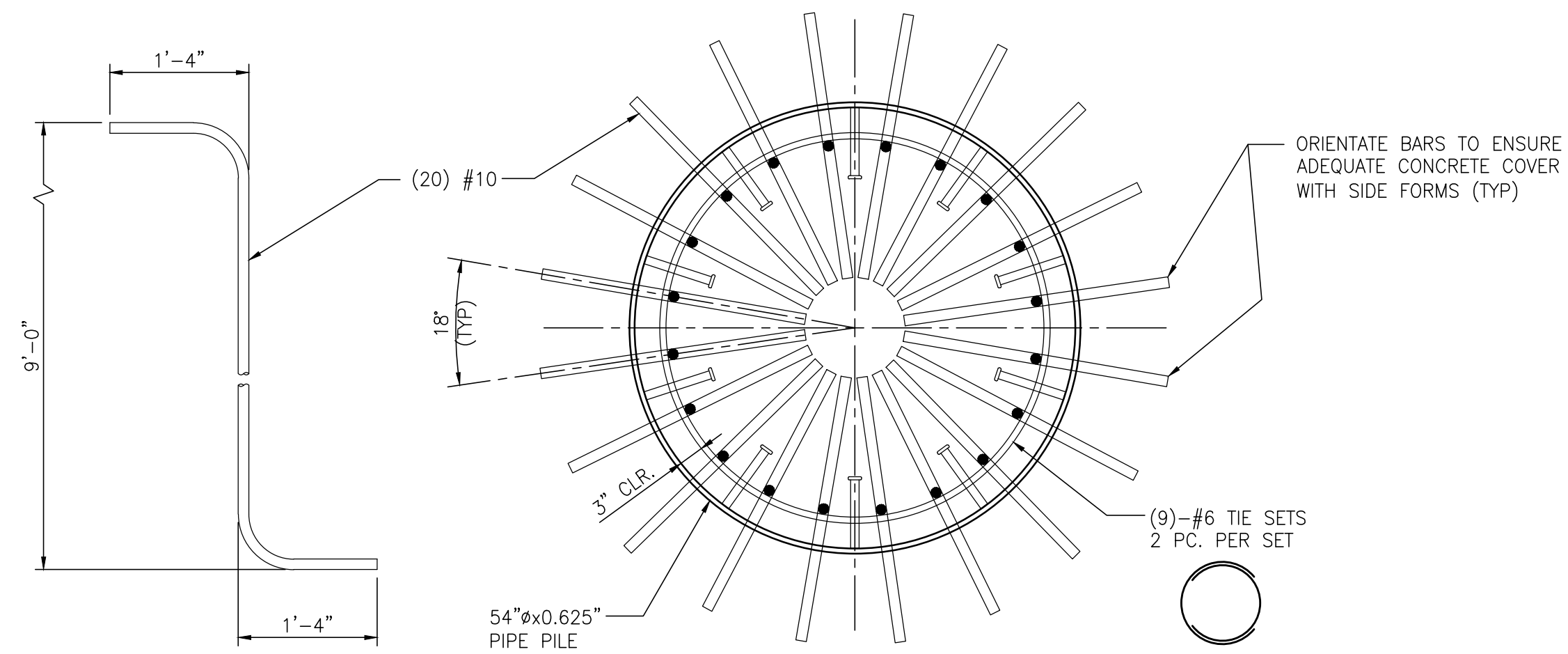
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 DRAWN: RST    CK'D: JEJ    APPD: RSG    DATE: 06/28/22    SCALE: 1/16"=1'-0"



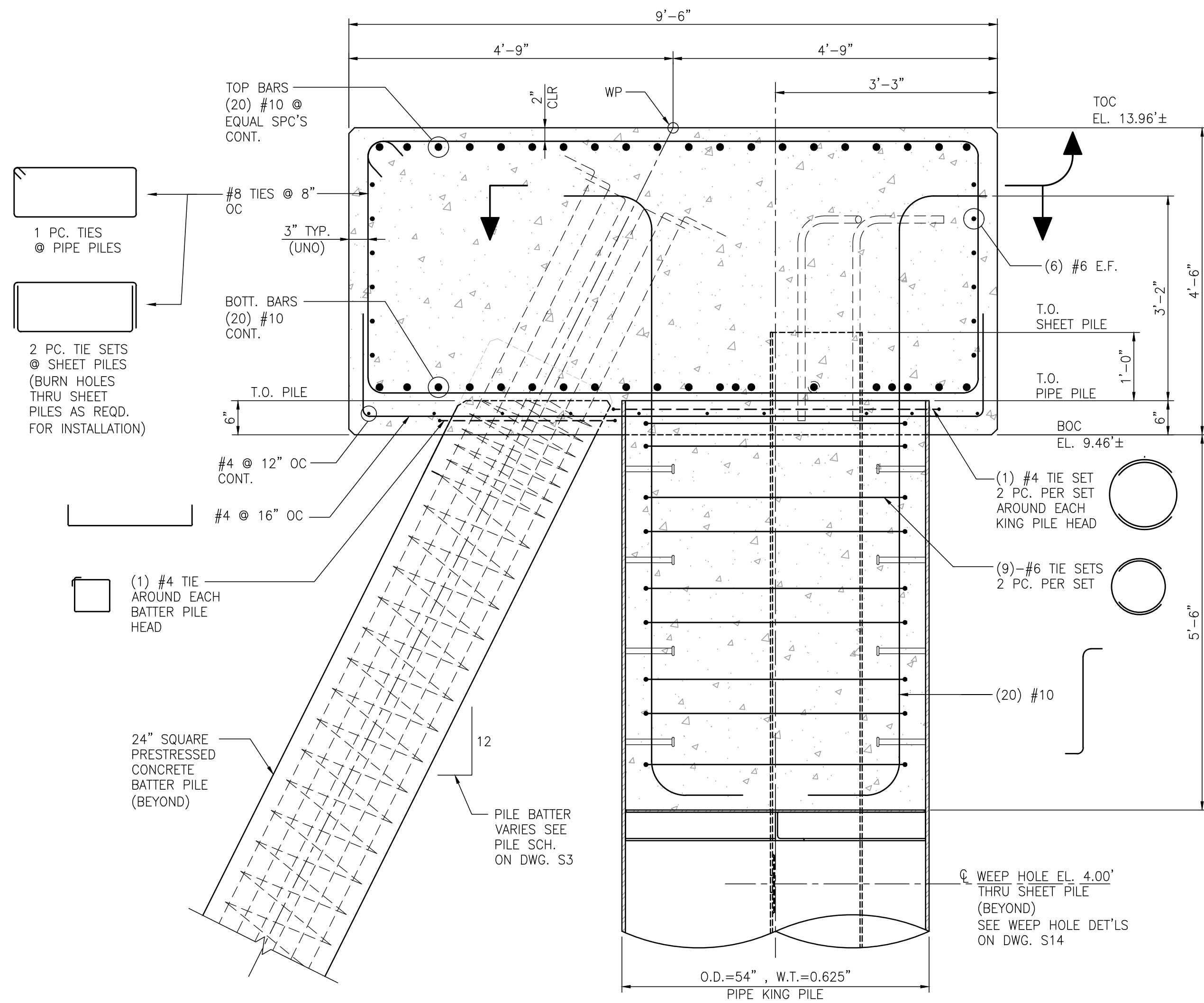
**ALABAMA**  
**PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 3    ASPA DRAWING NO:

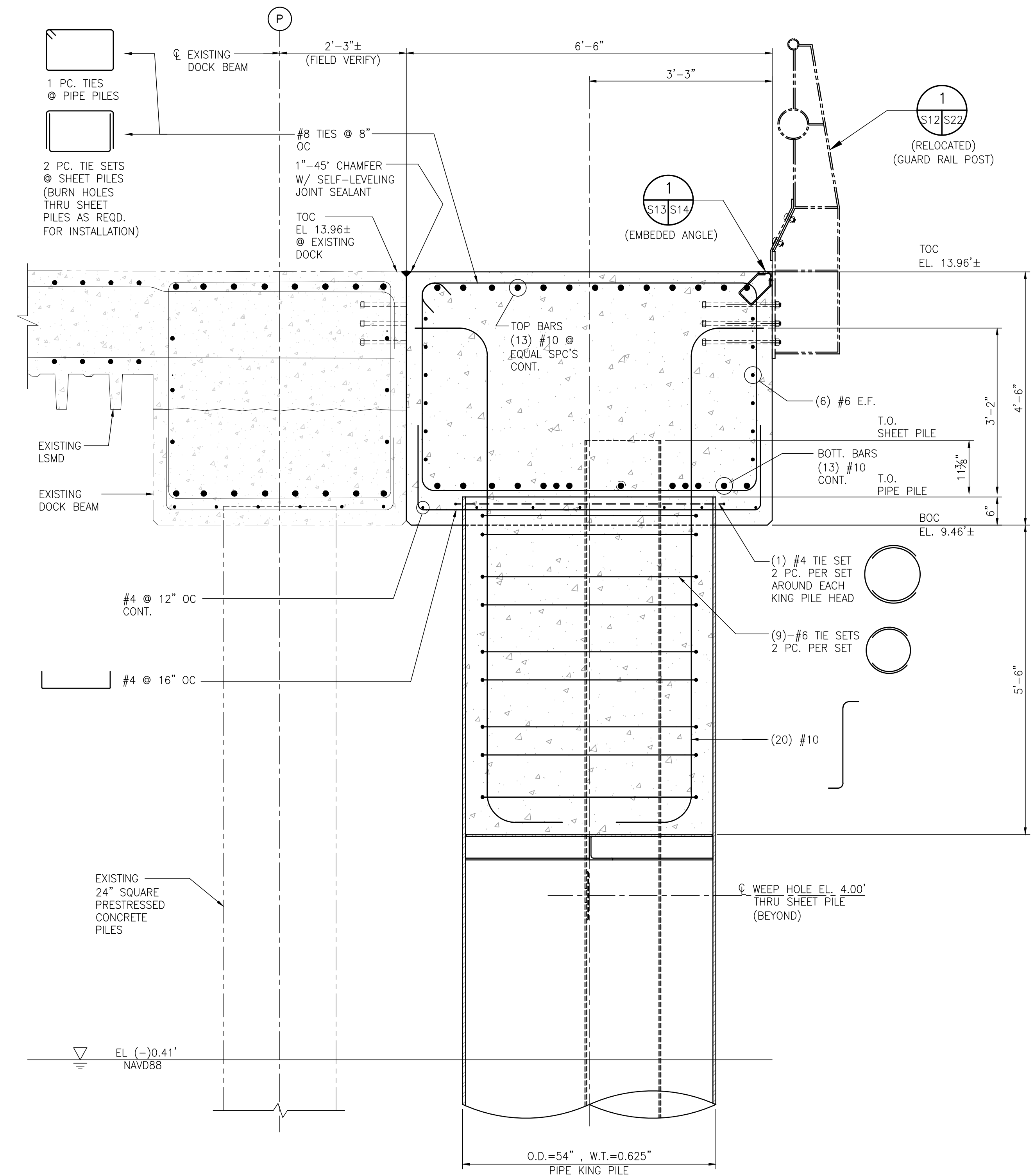
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.	
BULKHEAD EXTENSION PILE CAP	
PLAN AREA "BN"	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4485	DWG NO: S11
REV: A	



**TOP VIEW OF 54"Ø PIPE KING PILE REINFORCING**  
3/4"=1'-0"



**SECTION A**  
S10,S11,S18,S21,S12  
3/4"=1'-0"



**SECTION B**  
S10,S20,S12  
3/4"=1'-0"

NOTES

1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

NO.	REVISION	APPD.	DATE
A	ISSUED FOR BID	RST JEJ RSG	04/05/24



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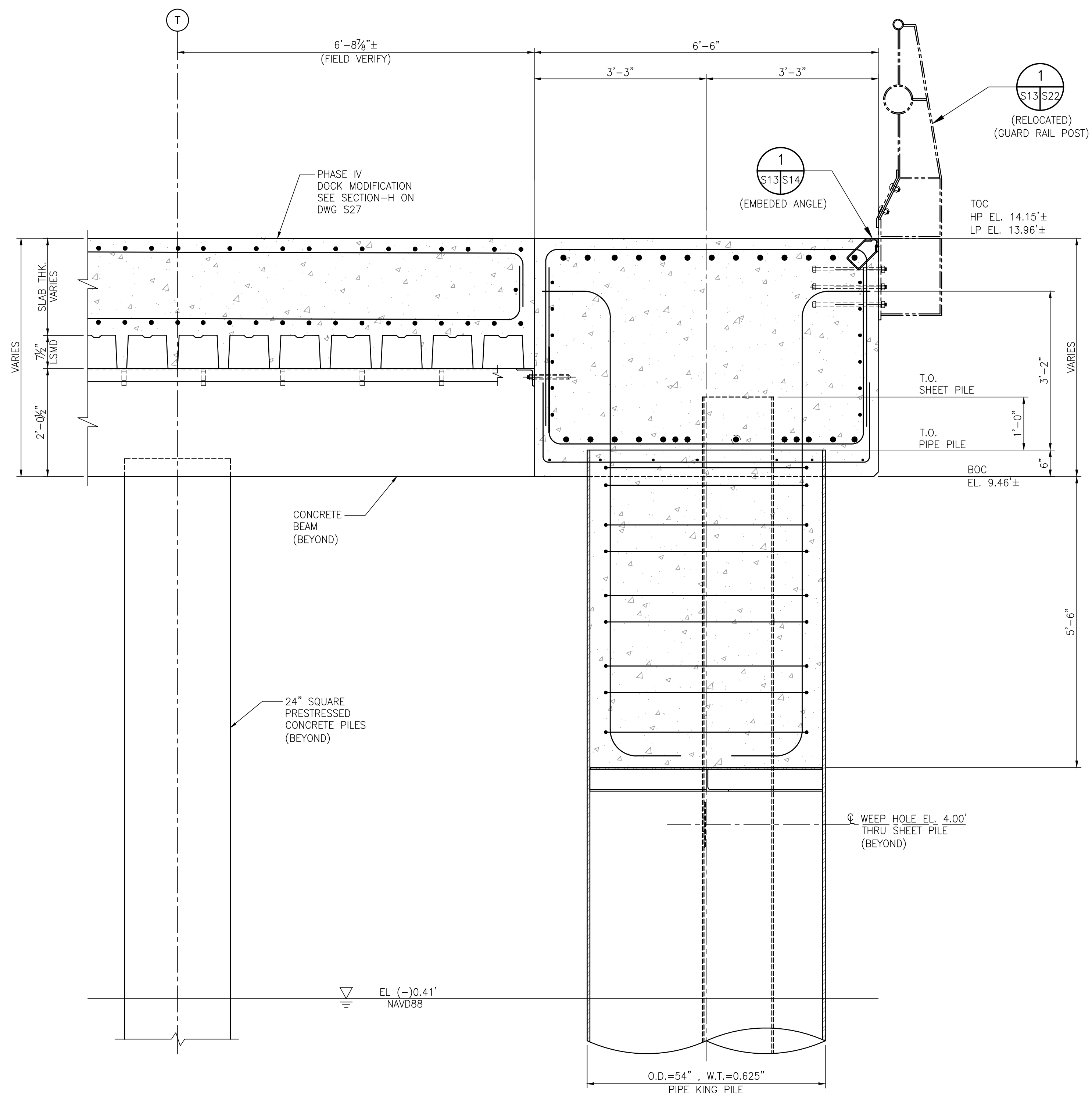
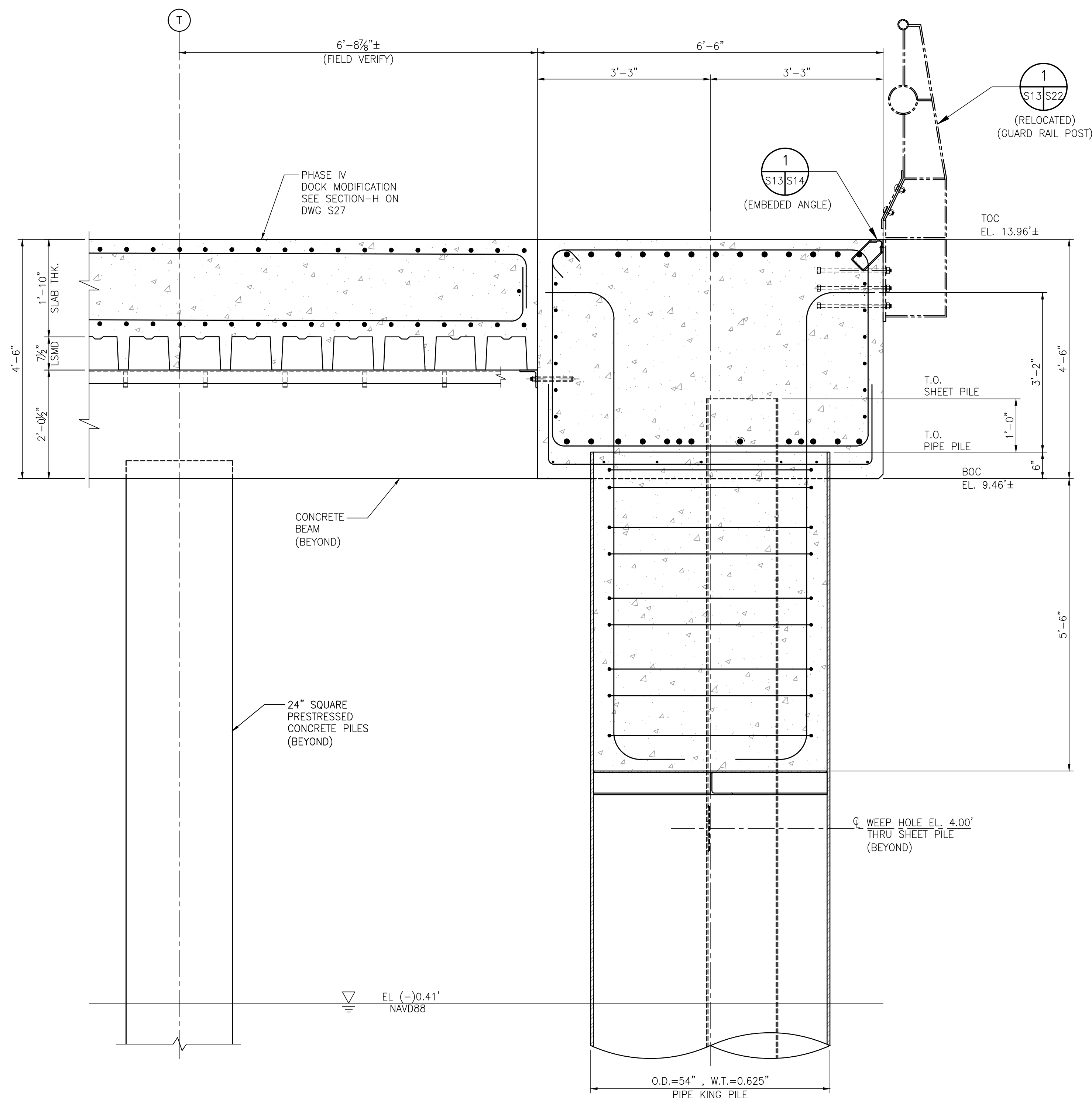


ASPA PROJECT NO. 11099 - TASK 3 ASPA DRAWING NO.

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION  
PILE CAP SECTION & DETAILS

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485 DWG NO: S12 REV: A



NOTE:  
SEE SECTION-"B" ON DWG. S12  
FOR PILE CAP & PIPE KING PILE  
SIMILAR REINFORCING INFORMATION  
NOT SHOWN IN THIS SECTION VIEW.

SECTION C  
S10/S13  
3/4"=1'-0"

NOTE:  
SEE SECTION-"B" ON DWG. S12  
FOR PILE CAP & PIPE KING PILE  
SIMILAR REINFORCING INFORMATION  
NOT SHOWN IN THIS SECTION VIEW.

SECTION D  
S10/S16/S13  
3/4"=1'-0"

NOTES

1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
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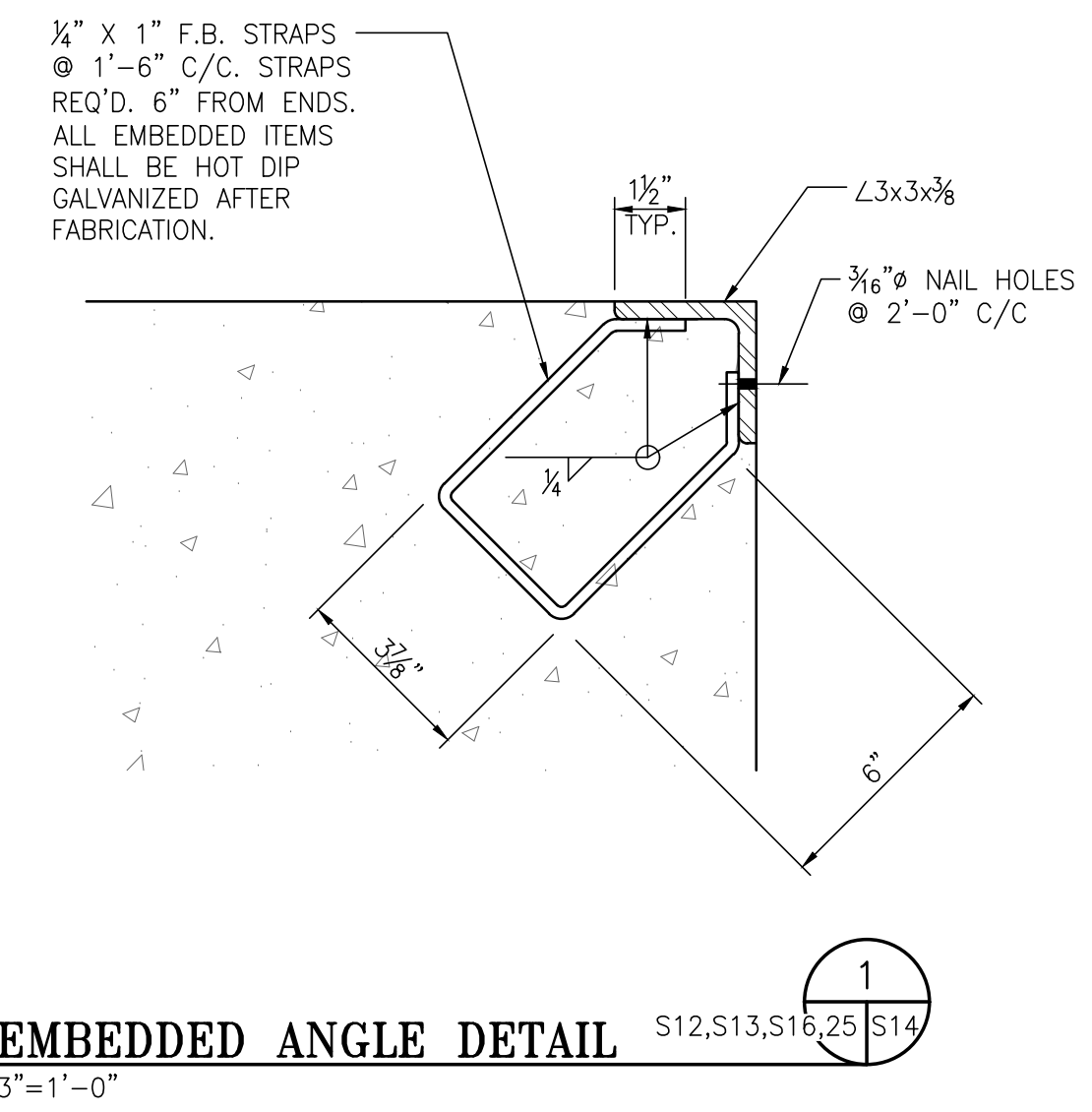
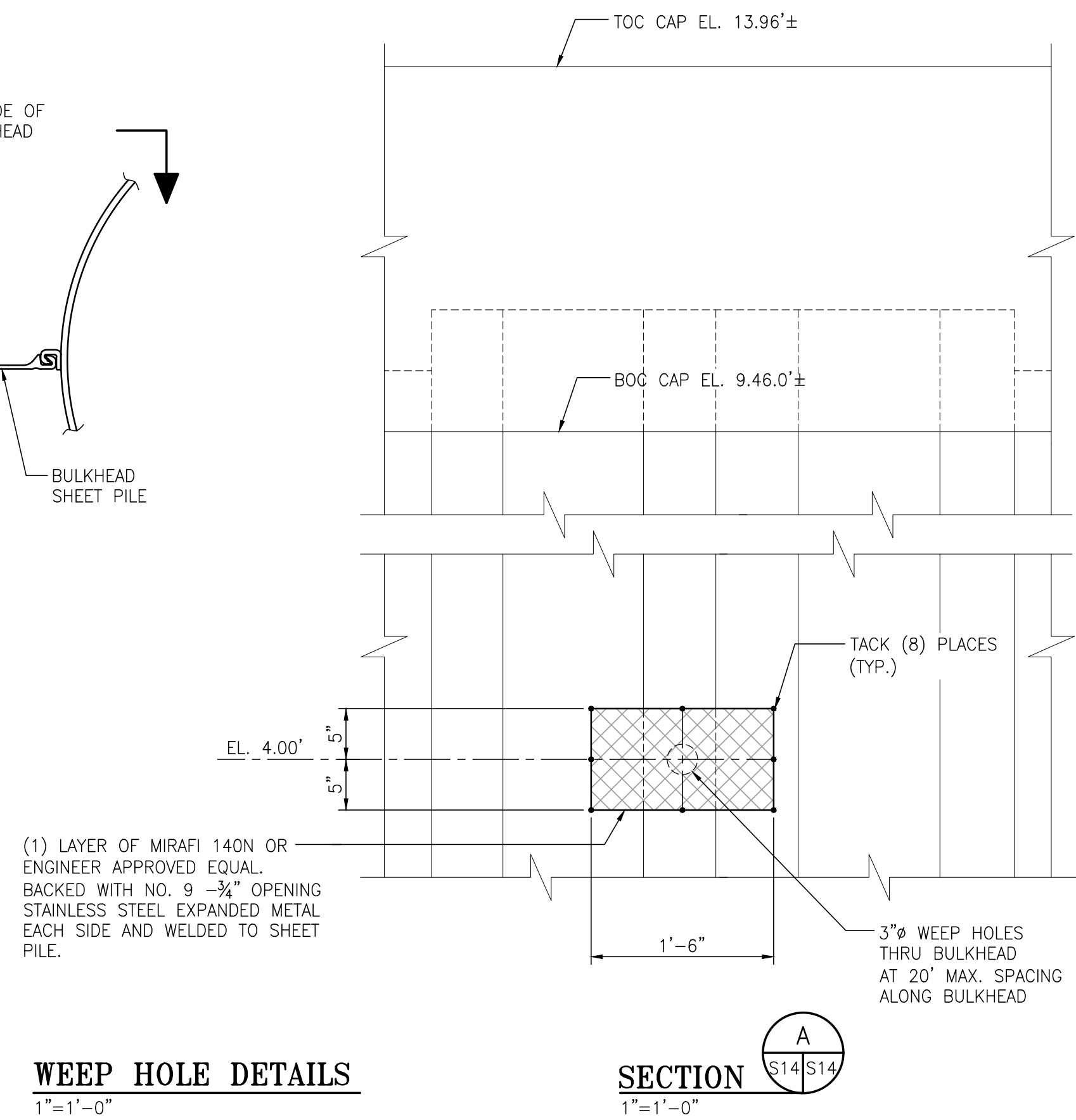
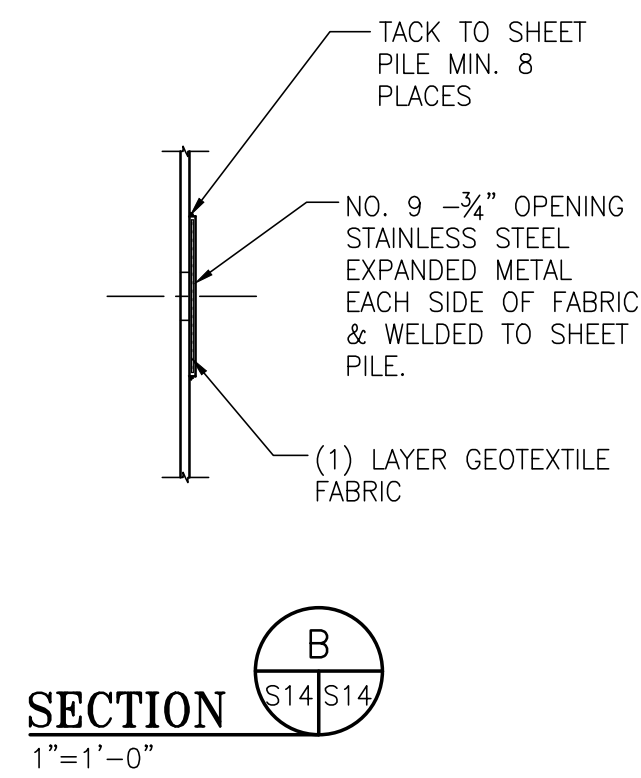
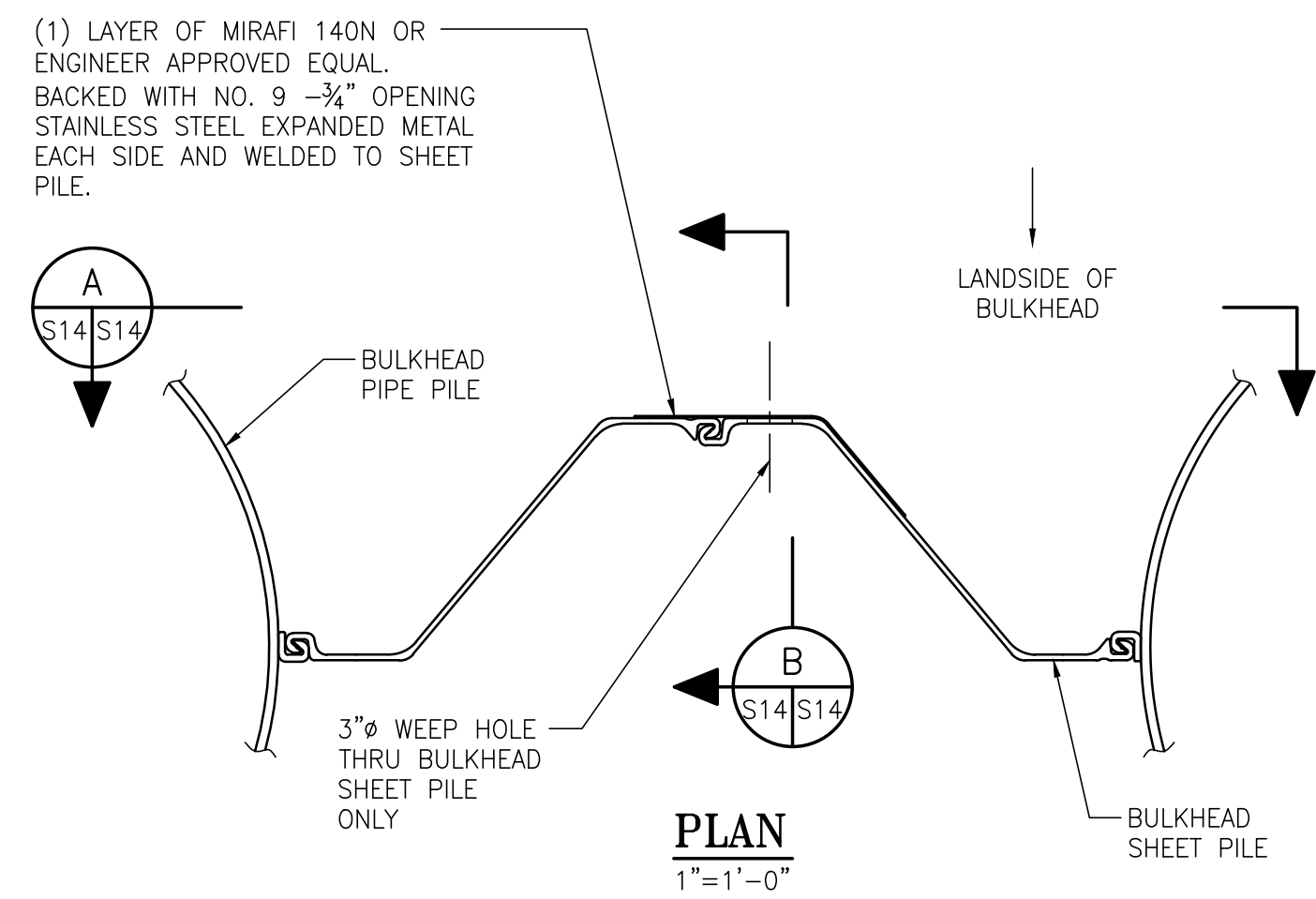
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ASPA PROJECT NO. 11099 TASK 3  
ASPA DRAWING NO.

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION  
PILE CAP SECTION & DETAILS

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485    DWG NO: S13    REV: A



ASPA PROJECT NO. 11099 TASK 3 ASPA DRAWING NO.

NOTES

1. SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

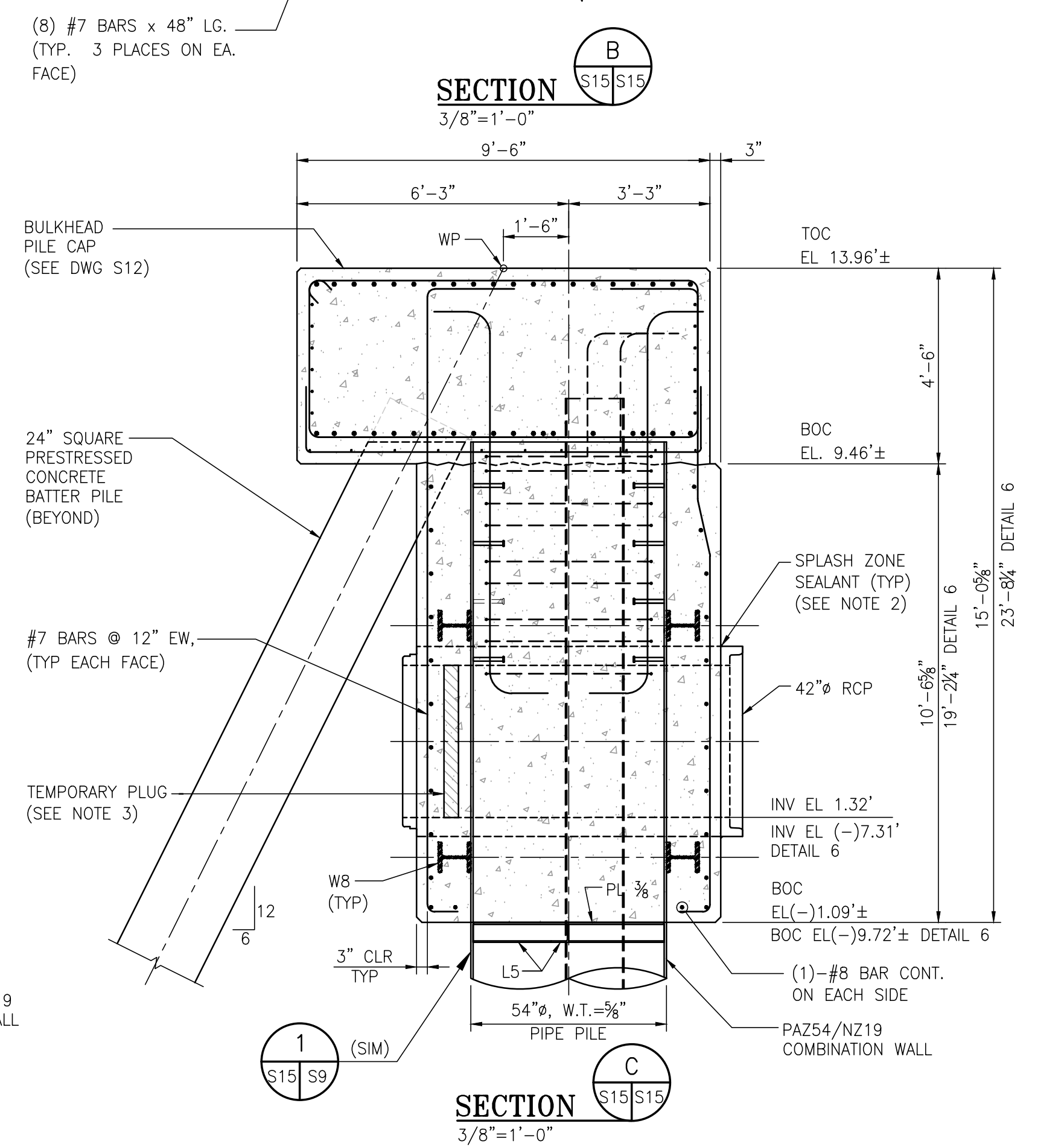
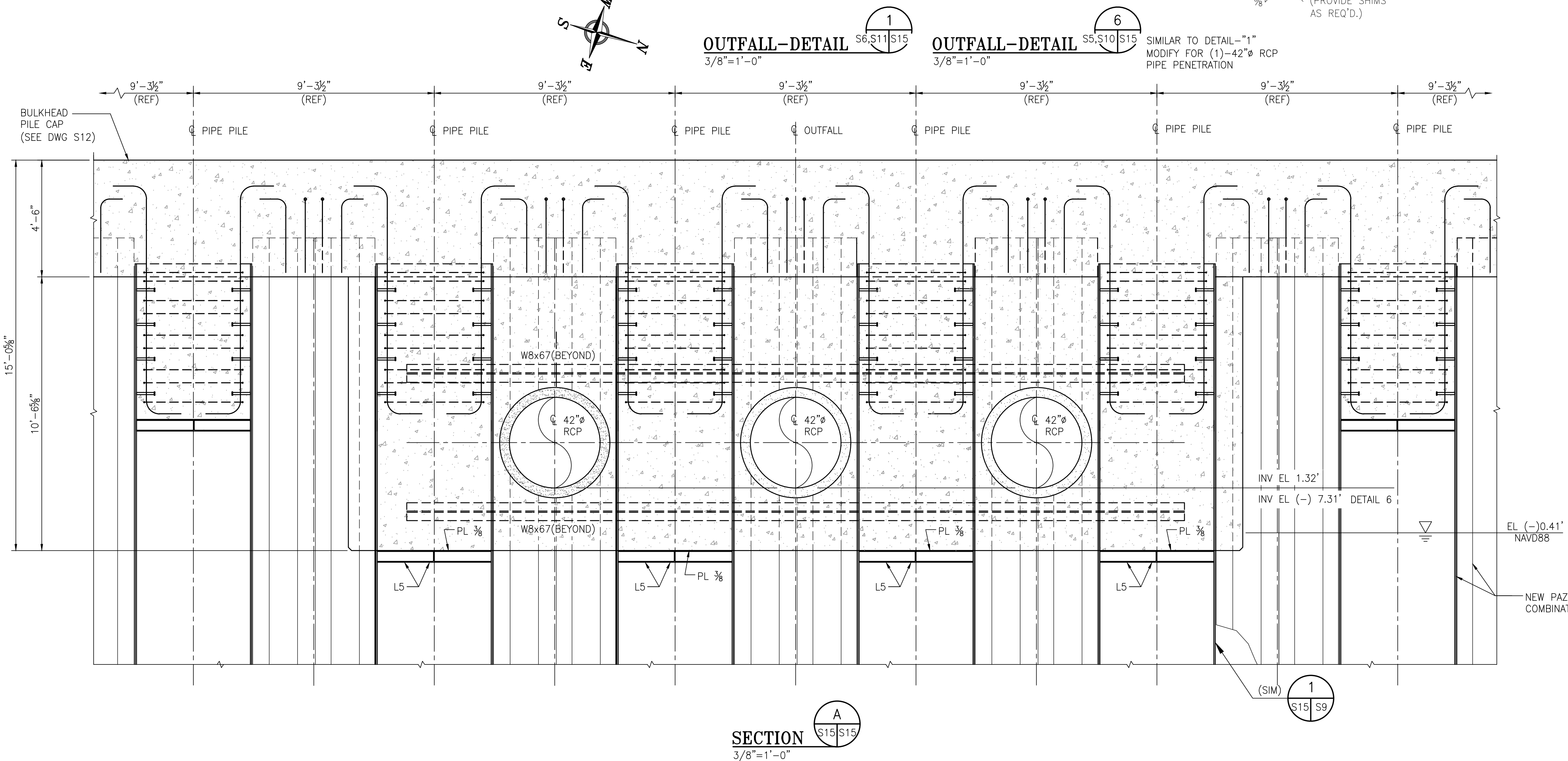
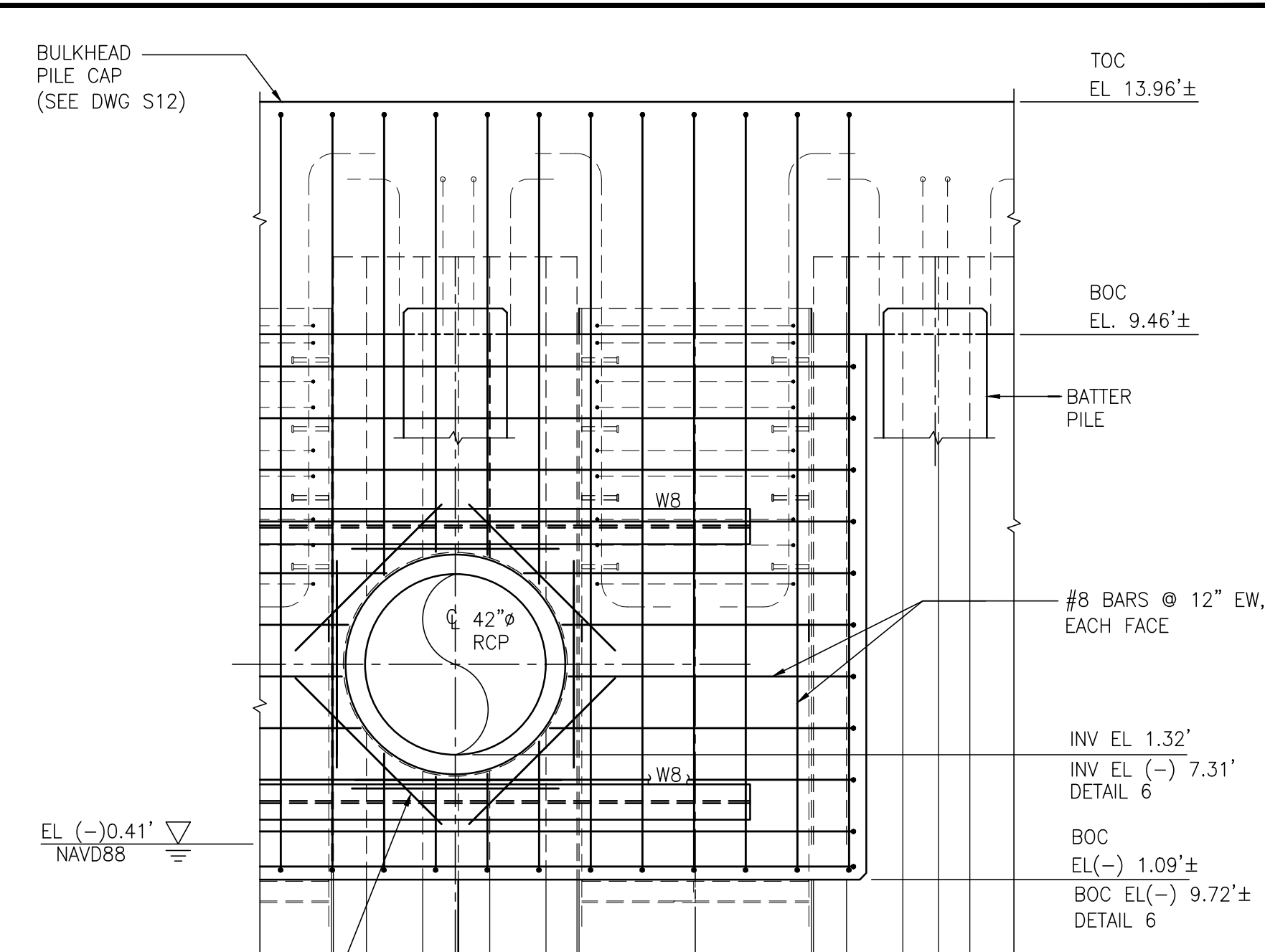
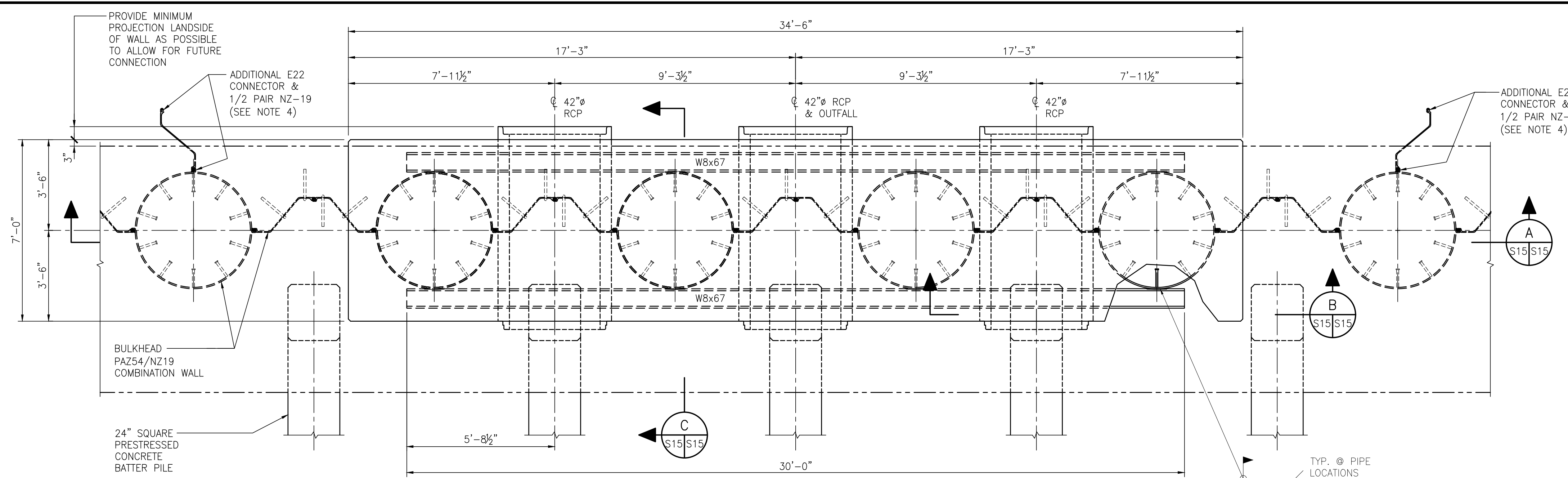
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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APMT PHASE IV DOCK MOD. & BULKHEAD EXT. BULKHEAD EXTENSION	
PILE CAP SECTION & DETAILS	
FOR: ALABAMA STATE PORT AUTHORITY	
PROJECT NO: 4485	DWG NO: S14
REVISION: A	





- NOTES
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
  - APPLY A FILLET OF SPLASH ZONE SEALANT OR OTHER APPROVED MATERIAL AT LANDSIDE AND WATERSIDE INTERFACE OF PIPE TO CONCRETE TO ASSURE A WATERTIGHT SEAL.
  - CONTRACTOR TO PROVIDE A TEMPORARY PLUG PIECE IN THE PIPE SECTION THAT CAN BE REMOVED WHEN CONNECTING TO STORM DRAINAGE SYSTEM IN THE FUTURE.
  - ADDITIONAL E22 CONNECTOR & 1/2 PAIR OF NZ19 SHEET PILE WILL BE SUPPLIED FOR PIPES THAT ARE TO BE INSTALLED OUTSIDE THE LIMITS OF THE WALL PENETRATIONS.

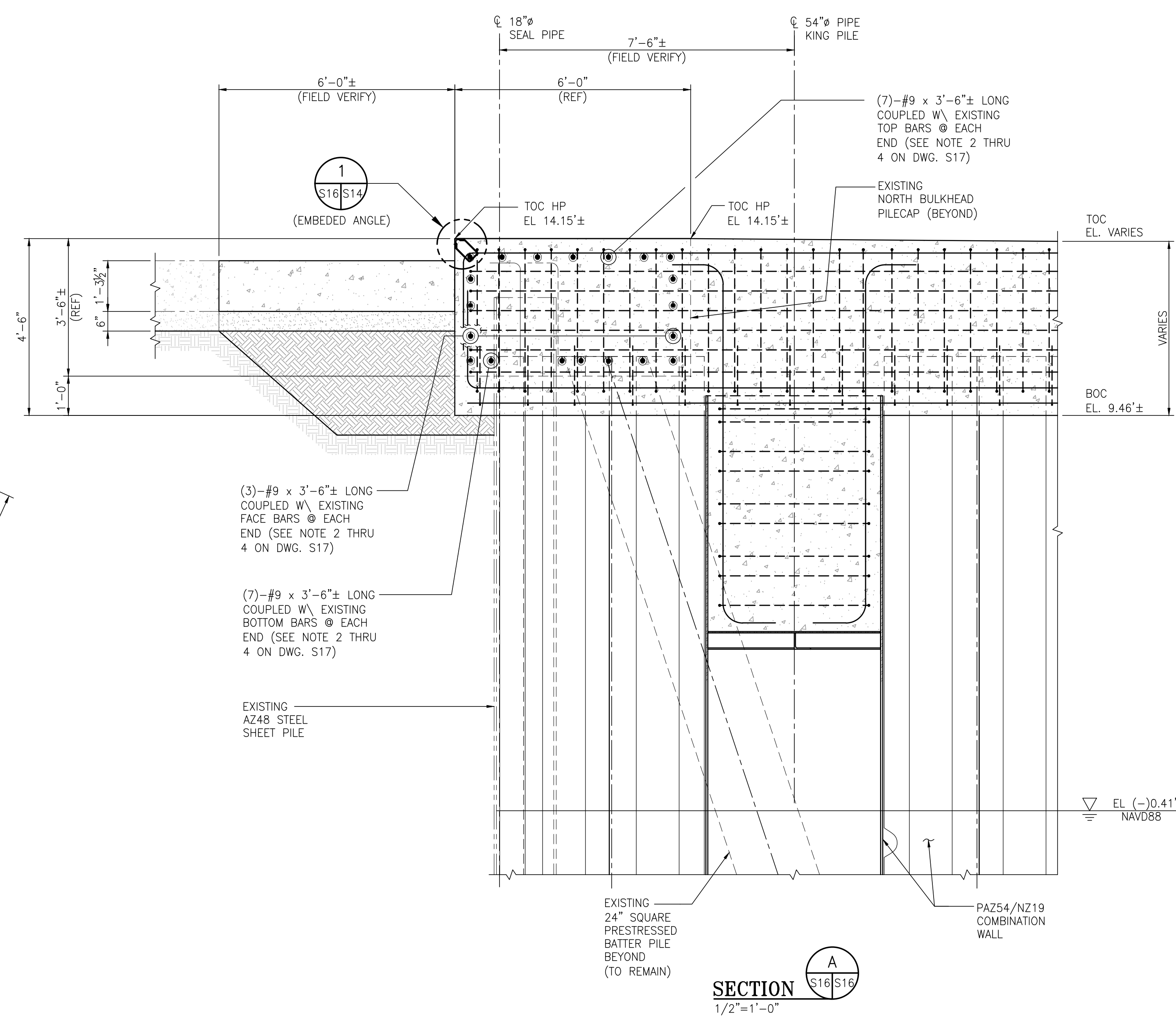
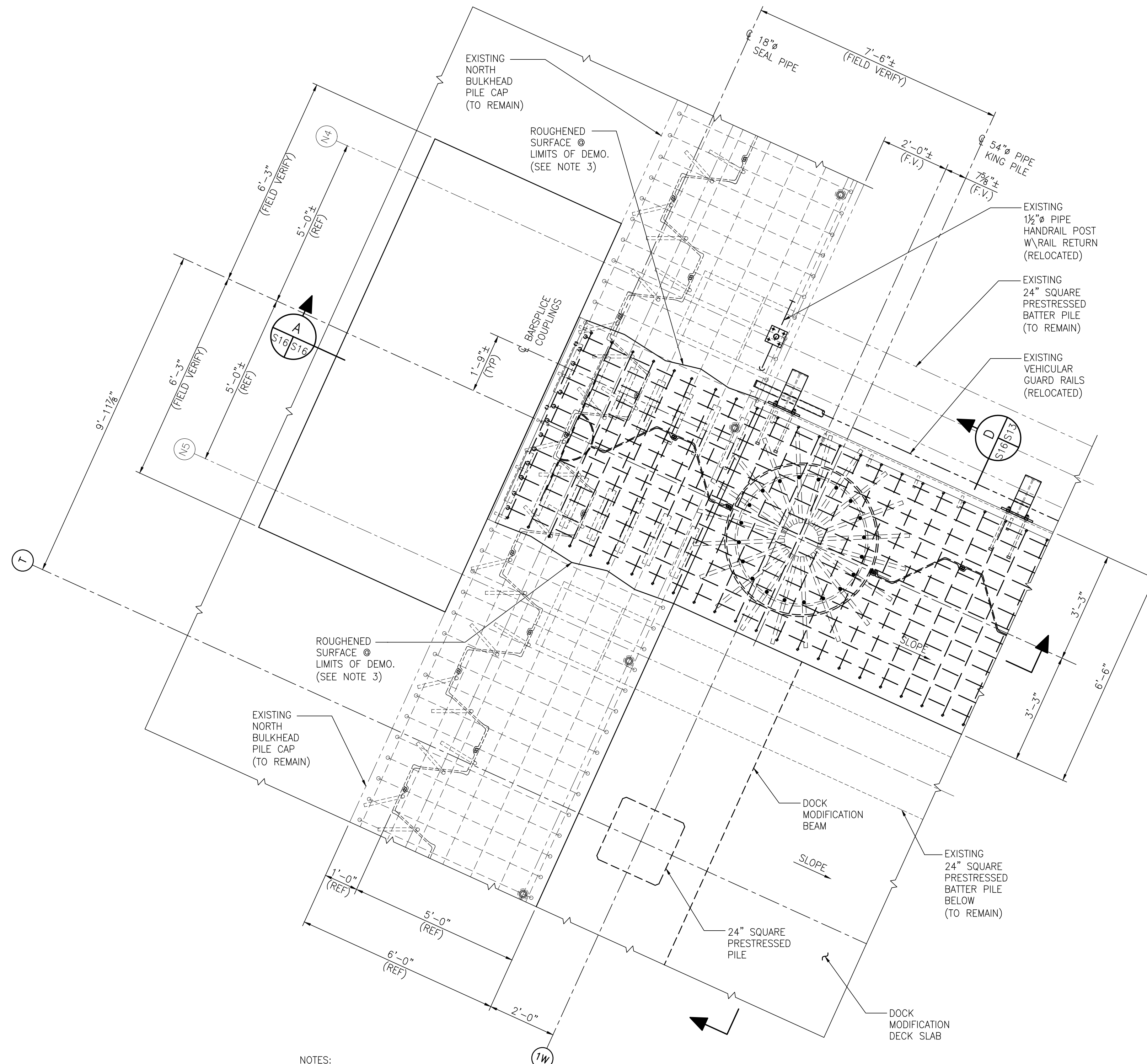
NO.	REVISION	DATE	DRAWN	CK'D	APPD
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ASPA PROJECT NO. 11099 TASK 3  
ASPA DRAWING NO. **APMT PHASE IV DOCK MOD. & BULKHEAD EXT. BULKHEAD EXTENSION OUTFALL NO.1 PIPE PENETRATION DETAIL & SECTIONS**

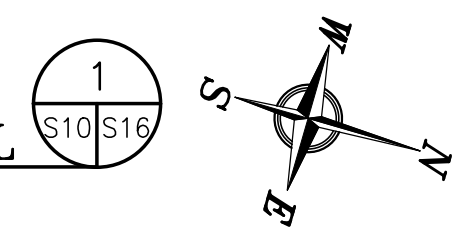
FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485 DWG NO: S15 REV: A



NOTES:  
 1. SEE DETAIL-1 ON DWG. S17 FOR NEW PILE CAP SOUTH TIE-IN DEMOLITION WORK IN THIS AREA  
 2. SEE DETAIL-11 ON DWG. S7 FOR PAZ54/NZ19 COMBINATION WALL INFORMATION NOT SHOWN FOR CLARITY

**SOUTH PILE CAP TIE-IN DETAIL**  
 1/2"=1'-0"



- NOTES
- SEE DWG. S1 FOR GENERAL PROJECT, STRUCTURAL NOTES AND DWG. S17 FOR DEMOLITION NOTES.
  - PROJECT DATUM IS BASED ON NAVD88.
  - ROUGHEN SURFACE OF EXISTING CONCRETE TO A FULL AMPLITUDE OF APPROX. 1/4" PRIOR TO PLACING NEW CONCRETE AND APPLY SIKADUR 32 HI-MOD LPL BONDING AGENT

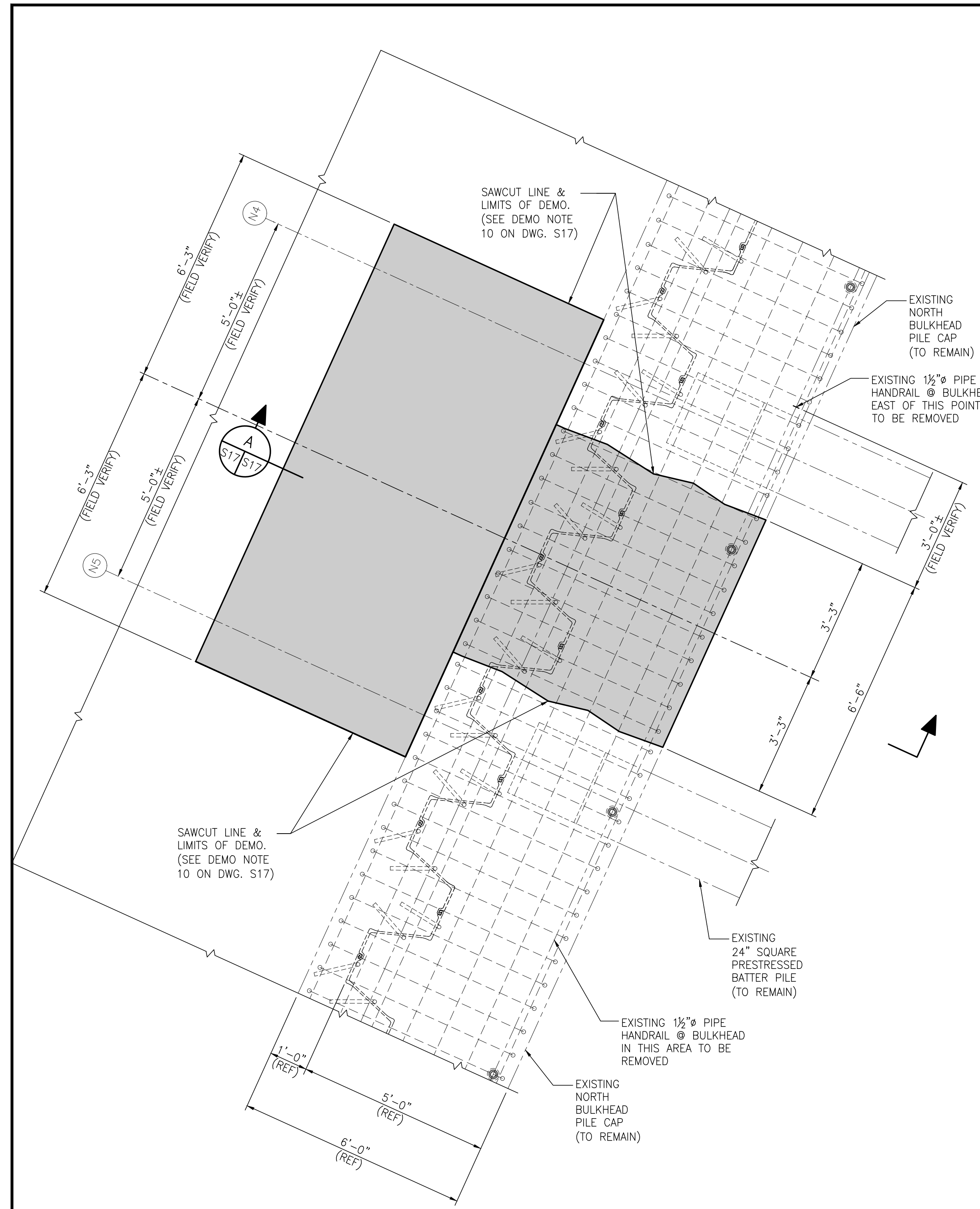
NO.	REVISION	DATE	DRAWN	CK'D	APPD
A	ISSUED FOR BID	04/05/24	RST	JEJ	RSG
REFERENCE DRAWINGS					



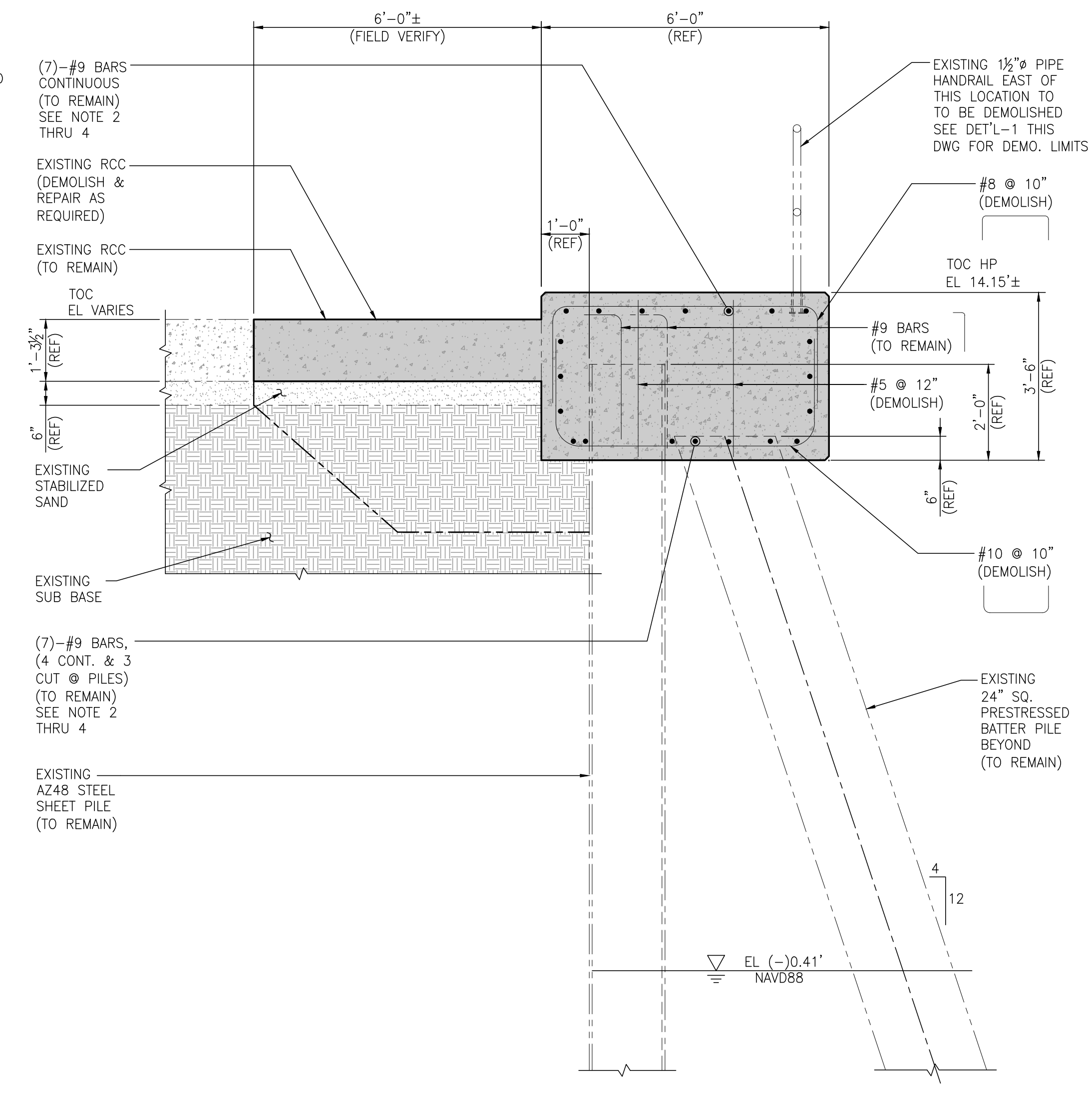
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ASPA PROJECT NO. 11099 TASK 3  
 ASPA DRAWING NO.  
**APMT PHASE IV DOCK MOD. & BULKHEAD EXT. BULKHEAD EXTENSION SOUTH TIE-IN PILE CAP DETAIL & SECTION**  
 FOR: ALABAMA STATE PORT AUTHORITY  
 PROJECT NO: 4485 DWG NO: S16 REV: A



(PLAN OF EXISTING CONDITIONS)



(EXISTING CONDITIONS)

**DEMOLITION NOTES:**

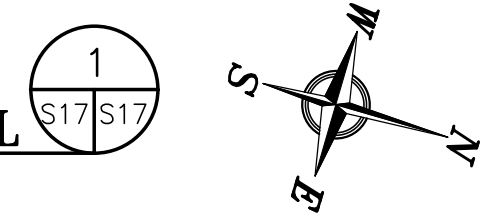
1. APTIM HAS ATTEMPTED TO PROVIDE THE CONTRACTOR WITH THE MOST CURRENT "AS BUILT" INFORMATION AS POSSIBLE REGARDING EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL EXISTING CONDITIONS AND HOW THEY AFFECT THE REQUIRED WORK PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCY NOTED BETWEEN ACTUAL CONDITIONS AND THOSE DESCRIBED BY THESE DRAWINGS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER. NO ADDITIONAL COST ASSOCIATED WITH THE MODIFICATIONS TO THE SCOPE OF WORK REQUIRED DUE TO INACCURATE EXISTING CONDITIONS AS SHOWN BY THESE DRAWINGS WILL BE CONSIDERED UNLESS SAID CONDITIONS HAVE BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO RECEIVING BIDS.
2. THE WORK INCLUDED UNDER THIS CONTRACT SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, EQUIPMENT, MATERIAL, SERVICES, AND SUPERVISION NECESSARY FOR THE DEMOLITION AND REMOVAL FROM THE SITE ALL INDICATED STRUCTURES INCLUSIVE OF BUT NOT LIMITED TO ALL CONCRETE AND ALL ASSOCIATED CONSTRUCTION THAT EXIST IN THE AREAS DESIGNATED FOR DEMOLITION. REMOVED MATERIALS AS DESIGNATED BY THE OWNER SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE SAFELY STORED AS DIRECTED. MATERIAL SPECIFIED TO BE DISPOSED OF SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE DISPOSED OF OFF OWNER'S PROPERTY.
3. CARE SHALL BE TAKEN TO AVOID DROPPING ANY REMOVED MATERIAL IN THE WATER AND ANY SUCH MATERIALS ENTERING THE WATER SHALL BE IMMEDIATELY REMOVED.
4. **APPLICABLE CODES AND STANDARDS**  
ANSI. A10.6 (LATEST EDITION) DEMOLITION OPERATIONS-SAFETY REQUIREMENTS  
NATIONAL ASSOCIATION OF DEMOLITION CONTRACTORS DEMOLITION SAFETY MANUAL
5. **REQUIRED SUBMITTALS**  
THE CONTRACTOR SHALL SUBMIT PROPOSED DEMOLITION AND REMOVAL PROCEDURES TO THE OWNER FOR APPROVAL BEFORE WORK BEGINS. THE DEMOLITION PLAN SHALL INCLUDE PROCEDURES FOR CAREFUL REMOVAL AND DISPOSITION OF ALL MATERIALS AND A DETAILED DESCRIPTION OF METHODS AND EQUIPMENT TO BE USED FOR EACH OPERATION AND OF SEQUENCE OF OPERATIONS.
6. **NOTIFICATION OF DEMOLITION AND DISPOSAL**  
THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL HAULING AND DISPOSAL REGULATIONS, FURNISHING TIMELY NOTIFICATION OF THE DEMOLITION WORK TO FEDERAL, STATE, REGIONAL AND LOCAL AUTHORITIES AS REQUIRED.
7. **DUST AND DEBRIS CONTROL**  
THE CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS AND AVOID THE CREATION OF A NUISANCE OR HAZARD IN THE SURROUNDING AREA. WATER SPRAY SHALL BE REQUIRED DURING DEMOLITION OPERATIONS WHEN CONDITIONS WARRANT.
8. **PROTECTION OF EXISTING STRUCTURES**  
TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN AND AROUND THE WORK AREA, TRAFFIC BARRICADES WITH FLASHING LIGHTS SHALL BE USED AS REQUIRED. STRUCTURES, EQUIPMENT, AND OTHER ITEMS IN THE ADJACENT AREA SHALL BE PROTECTED AS REQUIRED DURING DEMOLITION AND REMOVAL WORK. ANY SUCH ITEMS DAMAGED DURING THE COURSE OF THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, OR REPLACED. WHERE DEMOLITION AND REMOVAL WORK CAUSE HAZARDOUS CONDITIONS APPROPRIATE BARRIERS AND TEMPORARY COVERINGS SHALL BE USED AS REQUIRED.
9. **EXISTING CONSTRUCTION AND OPERATIONS**  
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL NECESSARY DETAILS OF THE EXISTING CONSTRUCTION AS RELATIVE TO ITS EFFECTS ON HIS WORK. CONTRACTOR SHALL ALSO COORDINATE HIS ACTIVITIES AROUND THE OWNERS OPERATIONS.
10. **REMOVAL OF PILE CAP CONCRETE & RCC AS INDICATED ON THE DEMOLITION DRAWINGS SHALL BEGIN WITH SAW CUTTING A JOINT IN THE TOP OF EXISTING CONCRETE AT PERIMETER/DEMOLITION LIMITS AS SHOWN IN DEMOLITION PLAN TO PREVENT SPALLING OF EXISTING CONCRETE EDGES. SAW CUT JOINTS SHALL BE TAKEN AT A DEPTH TO AVOID CUTTING EXISTING REBAR.**

**LEGEND:**

 INDICATES AREA OF EXISTING CONCRETE TO BE REMOVED, REBAR REMOVAL AS NOTED

NOTE:  
SEE DETAIL-1 ON DWG. S16  
FOR NEW PILE CAP SOUTH  
TIE-IN WORK IN THIS AREA

**SOUTH PILE CAP TIE-IN DEMOLITION DETAIL**  
1/2"=1'-0"



**SECTION A**  
1/2"=1'-0"

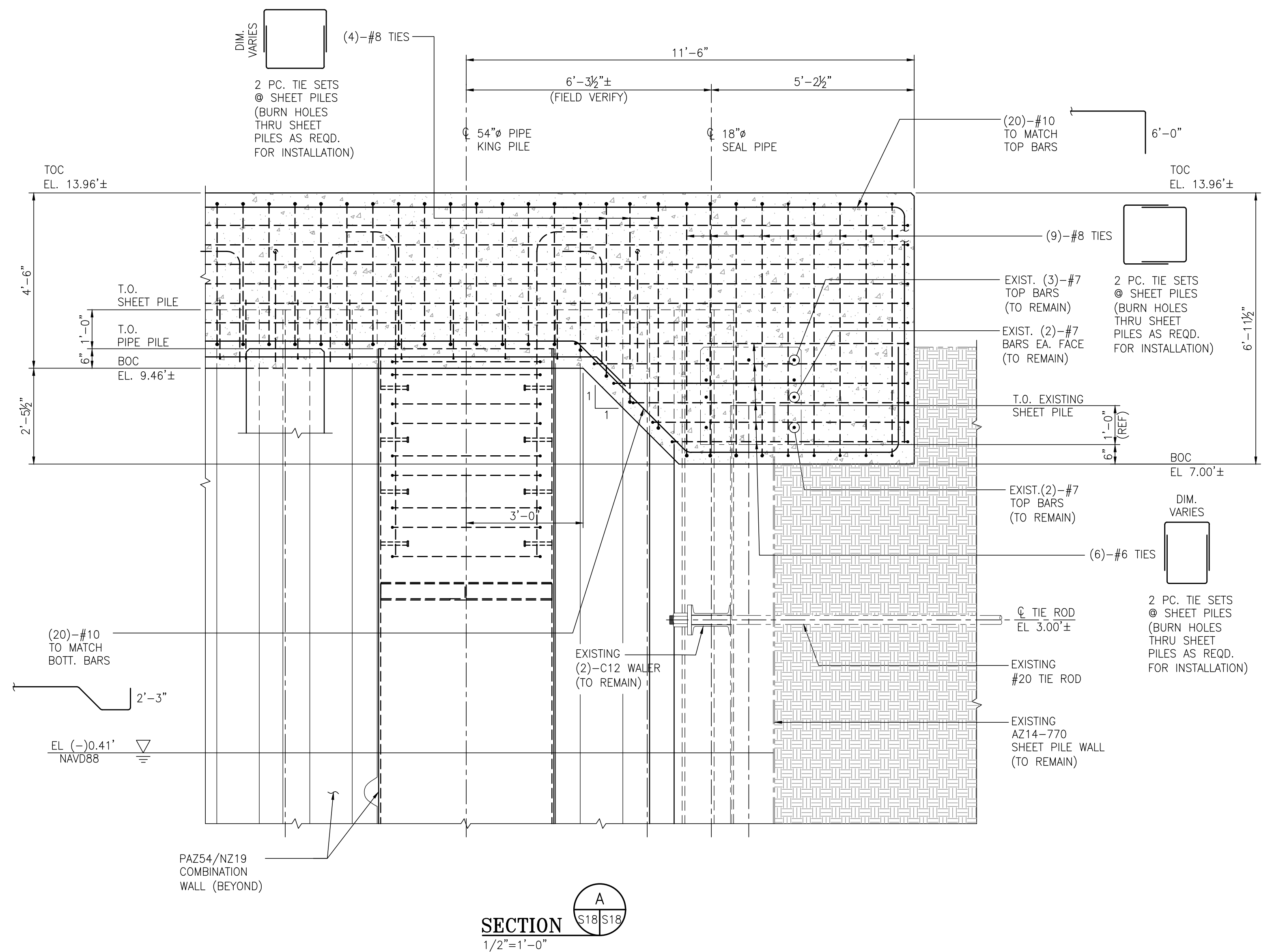
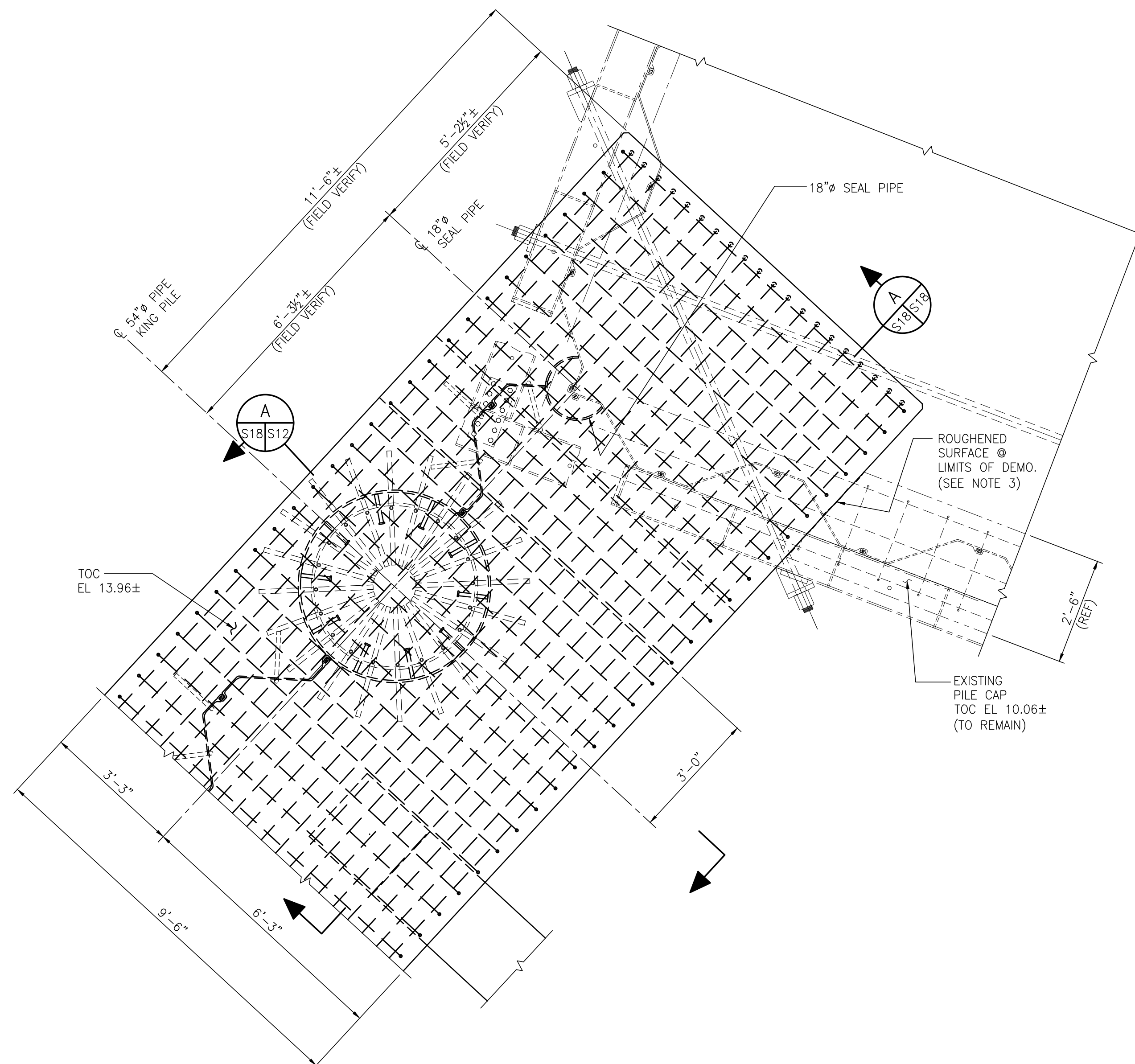
 **ALABAMA PORT AUTHORITY**  
PORT OF MOBILE  
ASPA PROJECT NO. 11099 TASK 3 | ASPA DRAWING NO.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
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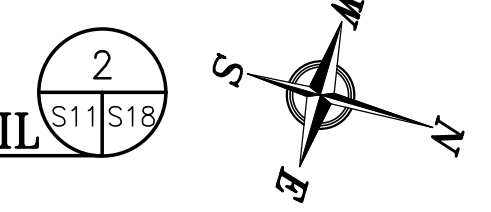
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APMT PHASE IV DOCK MOD. & BULKHEAD EXT.	
BULKHEAD EXTENSION SOUTH TIE-IN	
PILE CAP DEMOLITION DETAIL & SECTION	
FOR: ALABAMA STATE PORT AUTHORITY	
PROJECT NO: 4485	DWG NO: S17
DATE: 07/20/22	SCALE: NOTED
REVISION	REV: A



NOTE:  
SEE DETAIL-2 ON DWG. S19  
FOR NEW PILE CAP NORTH  
TIE-IN DEMOLITION WORK IN  
THIS AREA  
  
SEE DETAIL-4 ON DWG. S9  
FOR PAZ54/NZ19 COMBINATION  
WALL INFORMATION NOT SHOWN  
FOR CLARITY

**NORTH PILE CAP TIE-IN DETAIL**  
1/2"=1'-0"



**SECTION A**  
1/2"=1'-0"

- NOTES
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
  - PROJECT DATUM IS BASED ON NAVD88.
  - ROUGHEN SURFACE OF EXISTING CONCRETE TO A FULL AMPLITUDE OF APPROX. 1/4" PRIOR TO PLACING NEW CONCRETE AND APPLY SIKADUR 32 HI-MOD LPL BONDING AGENT

NO.	REVISION	DRAWN	CK'D	APPD	DATE
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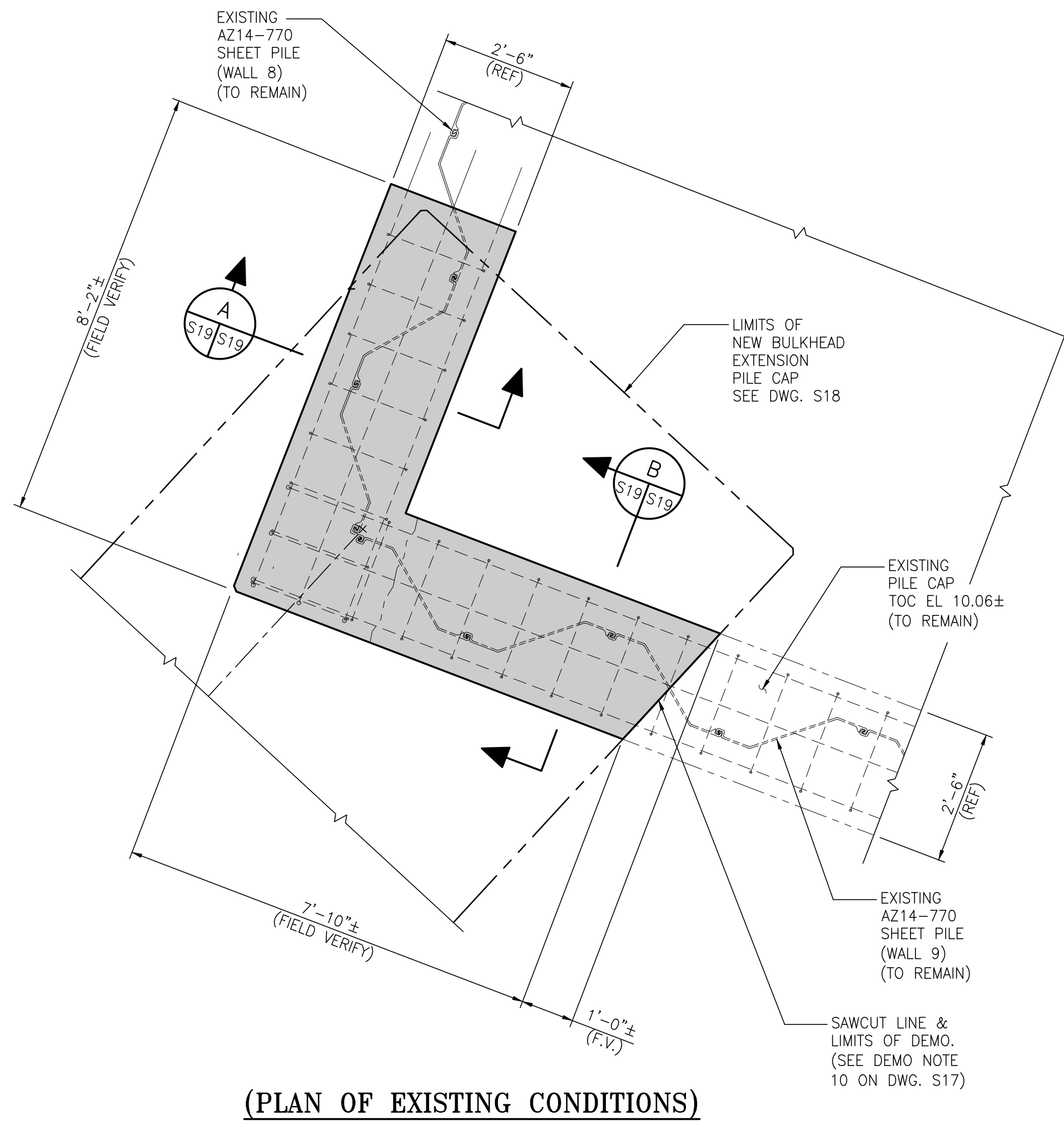
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ASPA PROJECT NO. 11099 TASK 3  
ASPA DRAWING NO.

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION NORTH TIE-IN  
PILE CAP DETAIL & SECTION

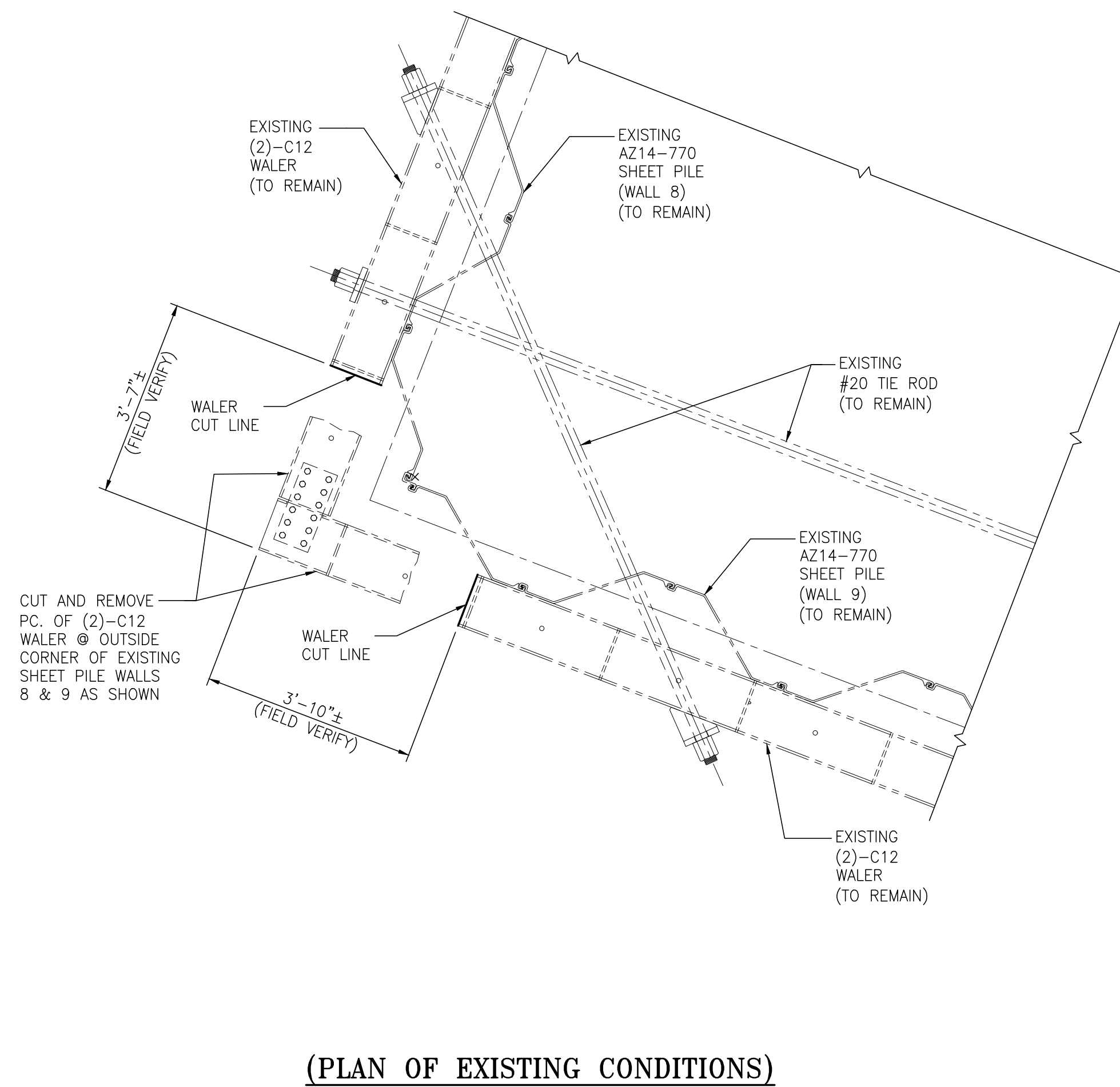
FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485    DWG NO: S18    REV: A



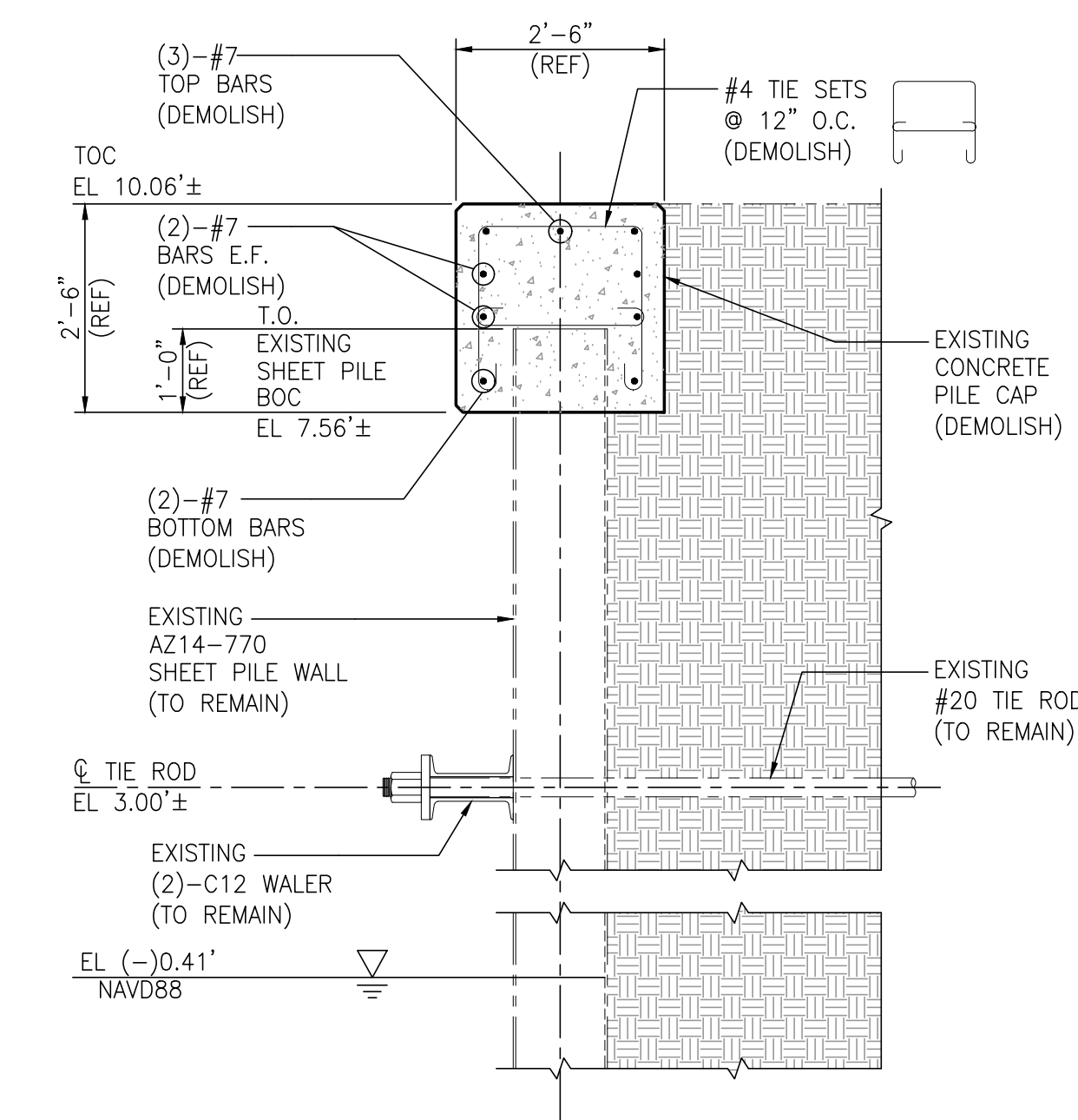
(PLAN OF EXISTING CONDITIONS)

WALL 8 & WALL 9 PILE CAP TOC EL 10.00±



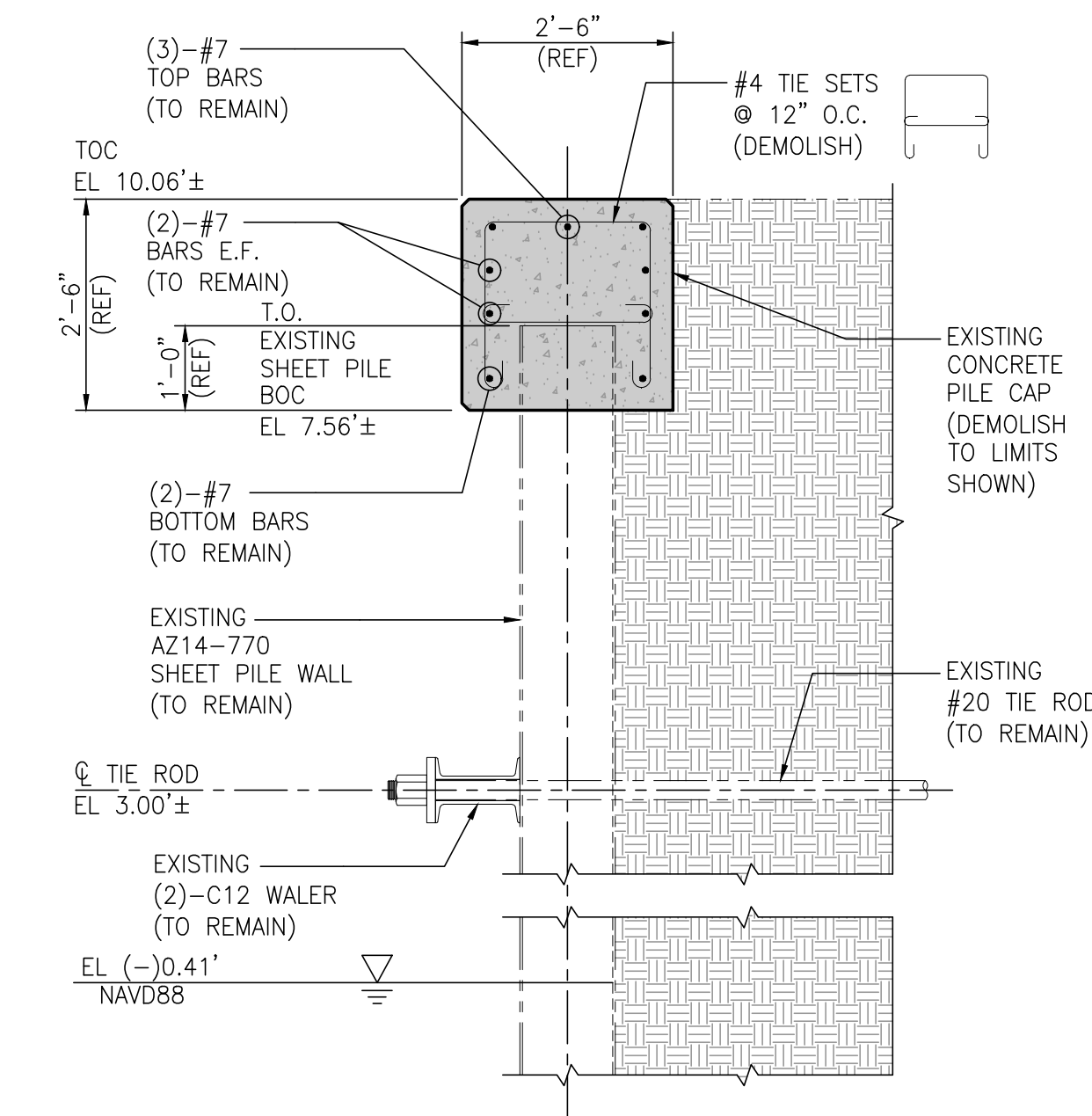
(PLAN OF EXISTING CONDITIONS)

(WALL 8 & WALL 9 (2)-C12 WALER @ EL 3.00±)



(EXISTING CONDITIONS)

SECTION A  
S19/S19  
1/2"=1'-0"



(EXISTING CONDITIONS)

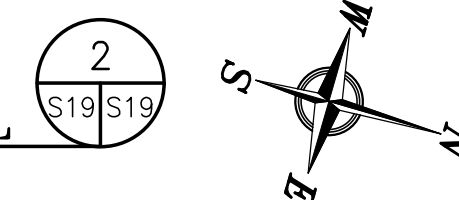
SECTION B  
S19/S19  
1/2"=1'-0"

LEGEND:

- INDICATES AREA OF EXISTING CONCRETE TO BE REMOVED IN ITS ENTIRETY, REBAR REMOVAL AS NOTED

NOTE:  
SEE DETAIL-2 ON DWG. S18 FOR NEW PILE CAP NORTH TIE-IN WORK IN THIS AREA

NORTH PILE CAP TIE-IN DEMOLITION DETAIL  
1/2"=1'-0"



- NOTES
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES AND DWG. S17 FOR DEMOLITION NOTES.
  - CONTRACTOR SHALL USE EXTREME CARE TO NOT CUT OR REMOVE ANY BARS UNLESS ABSOLUTELY NECESSARY IN ORDER TO FULLY REMOVE INDICATED CONCRETE AS REQUIRED TO INSTALL NEW COMBINATION WALL & NEW REINFORCING STEEL FOR BULKHEAD EXTENSION AS SHOWN OR NOTED ON THE DRAWINGS. IF BARS ARE REMOVED OR CUT THEY SHALL BE REPLACED IN KIND AND LAP SPLICED WITH THE APPROPRIATE LAP SPLICE LENGTH OR BY USING A MECHANICAL SPLICE COUPLING BY BARSPlice PRODUCTS INC. AS APPROVED BY THE ENGINEER.
  - MECHANICAL SPLICES SHALL BE ZAP SCREWLOK TYPE 2 BY BARSPlice PRODUCTS INC. OR APPROVED EQUAL AND SHALL BE INSTALLED IN STRICT ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS.
  - REBAR SHALL BE SAW CUT. FLAME CUTTING OF REBAR IS NOT ALLOWED.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEU	RSG	04/05/24

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DRAWN: RST CK'D: JEJ APPD: RSG DATE: 07/20/22 SCALE: NOTED

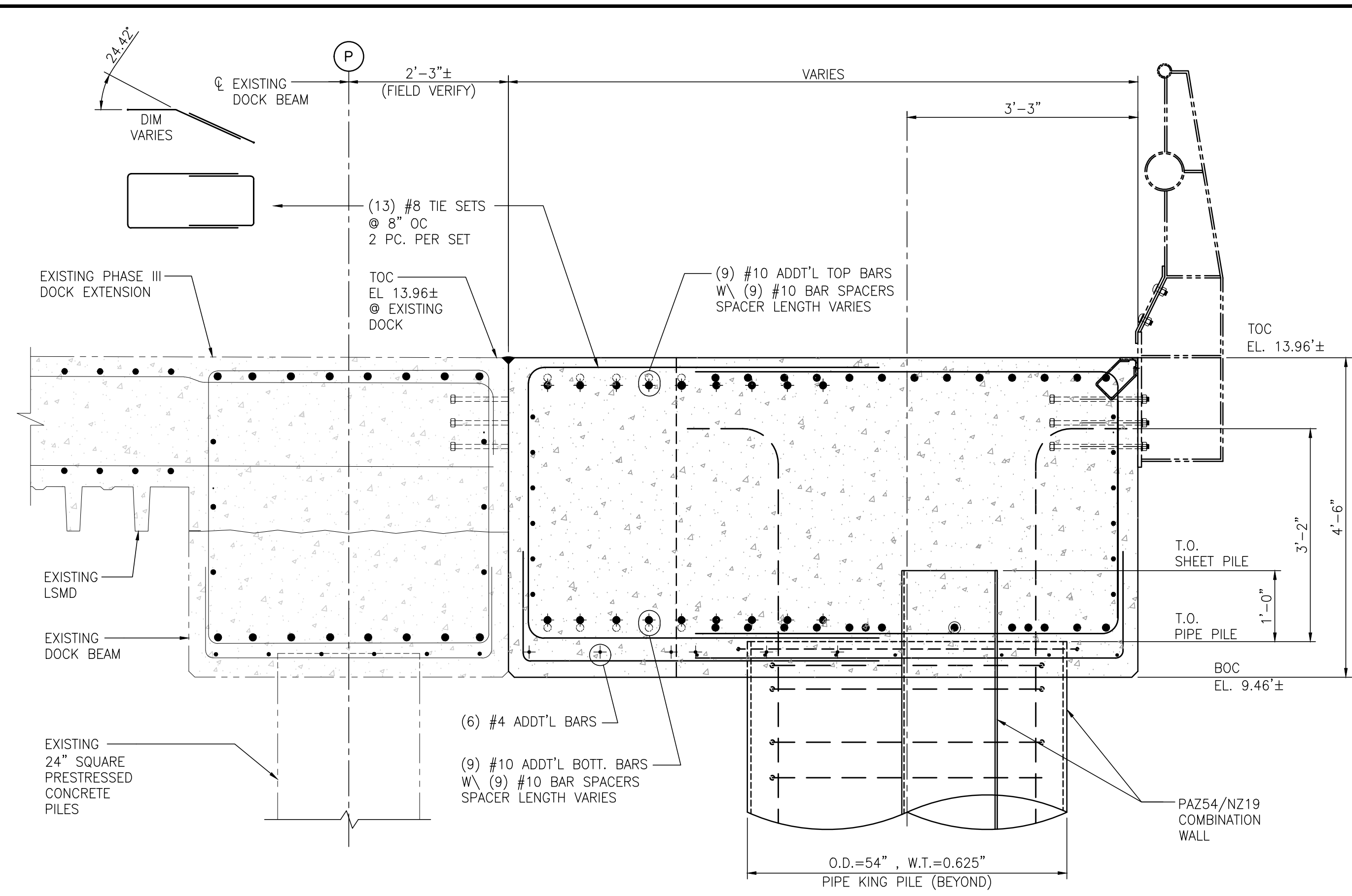
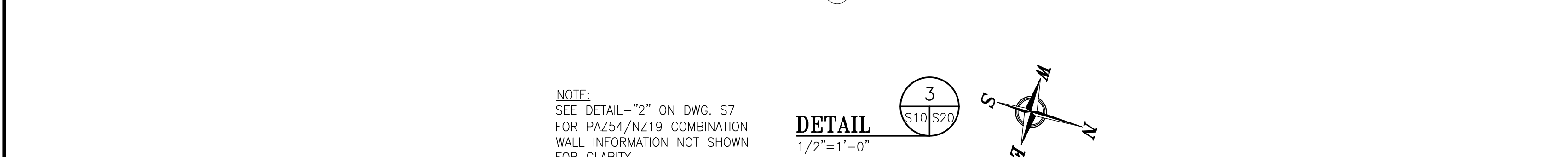
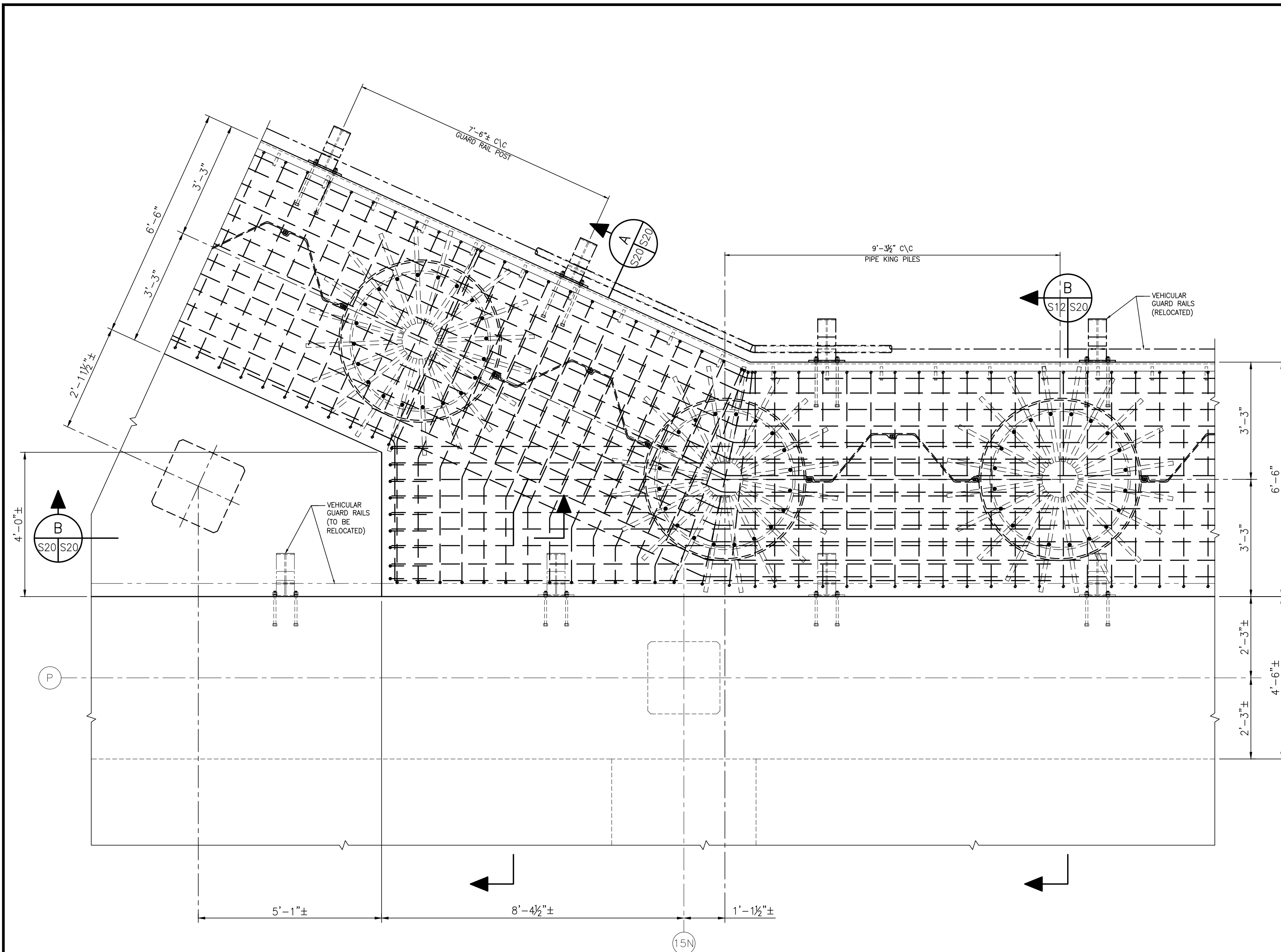
ALABAMA PORT AUTHORITY  
PORT OF MOBILE

ASPA PROJECT NO. 11099 TASK 3 ASPA DRAWING NO.

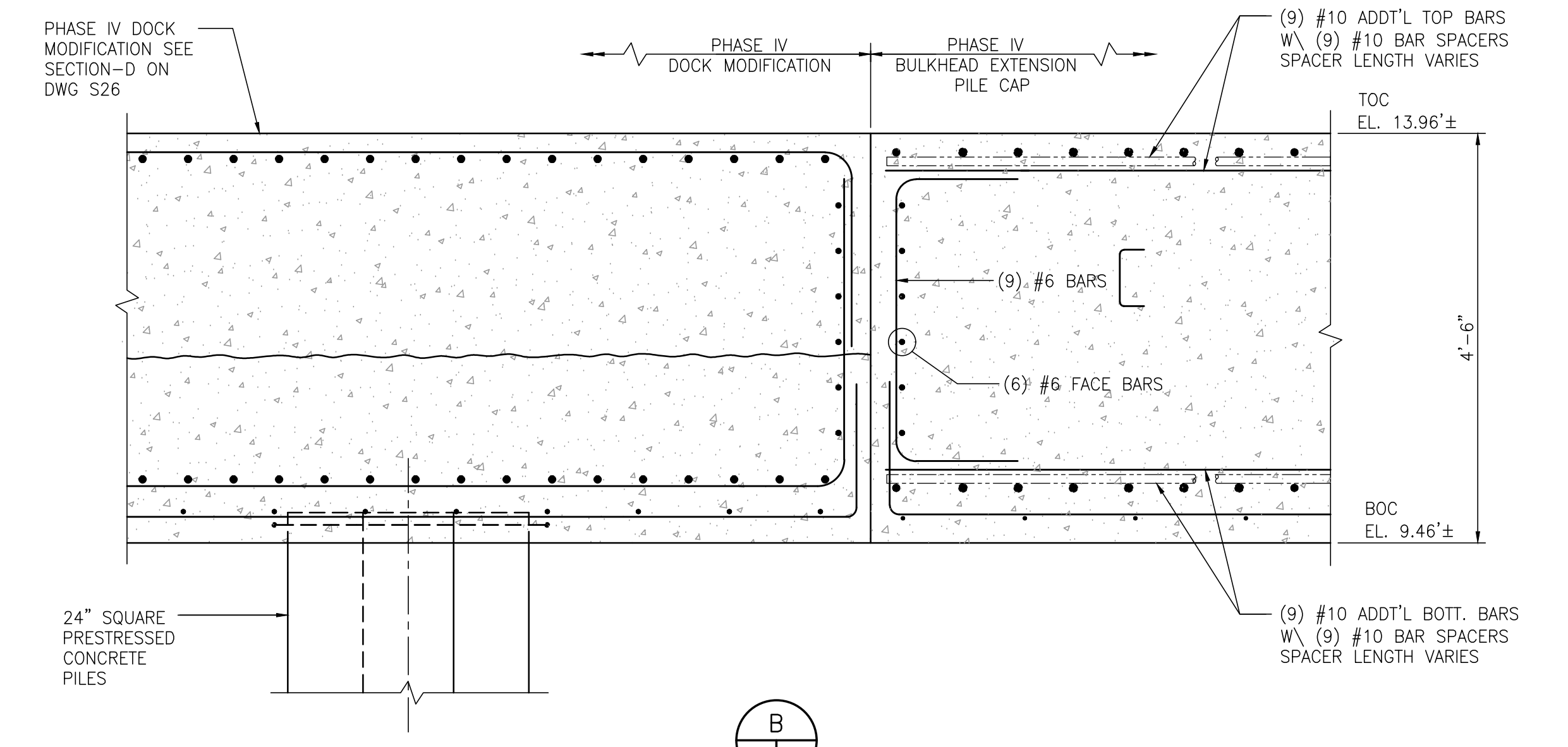
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION NORTH TIE-IN  
PILE CAP DEMOLITION DETAIL & SECTION

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485 DWG NO: S19 REV: A



NOTE:  
SEE SECTION-"B" ON DWG. S12  
FOR PILE CAP & PIPE KING PILE  
SIMILAR REINFORCING INFORMATION  
NOT SHOWN IN THIS SECTION VIEW.



NOTES

- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

NO.	REVISION	APPD.	DATE	DRAWN	CK'D	APPD.	DATE
A	ISSUED FOR BID	RST	04/05/24	RST	JEJ	RSG	04/05/24

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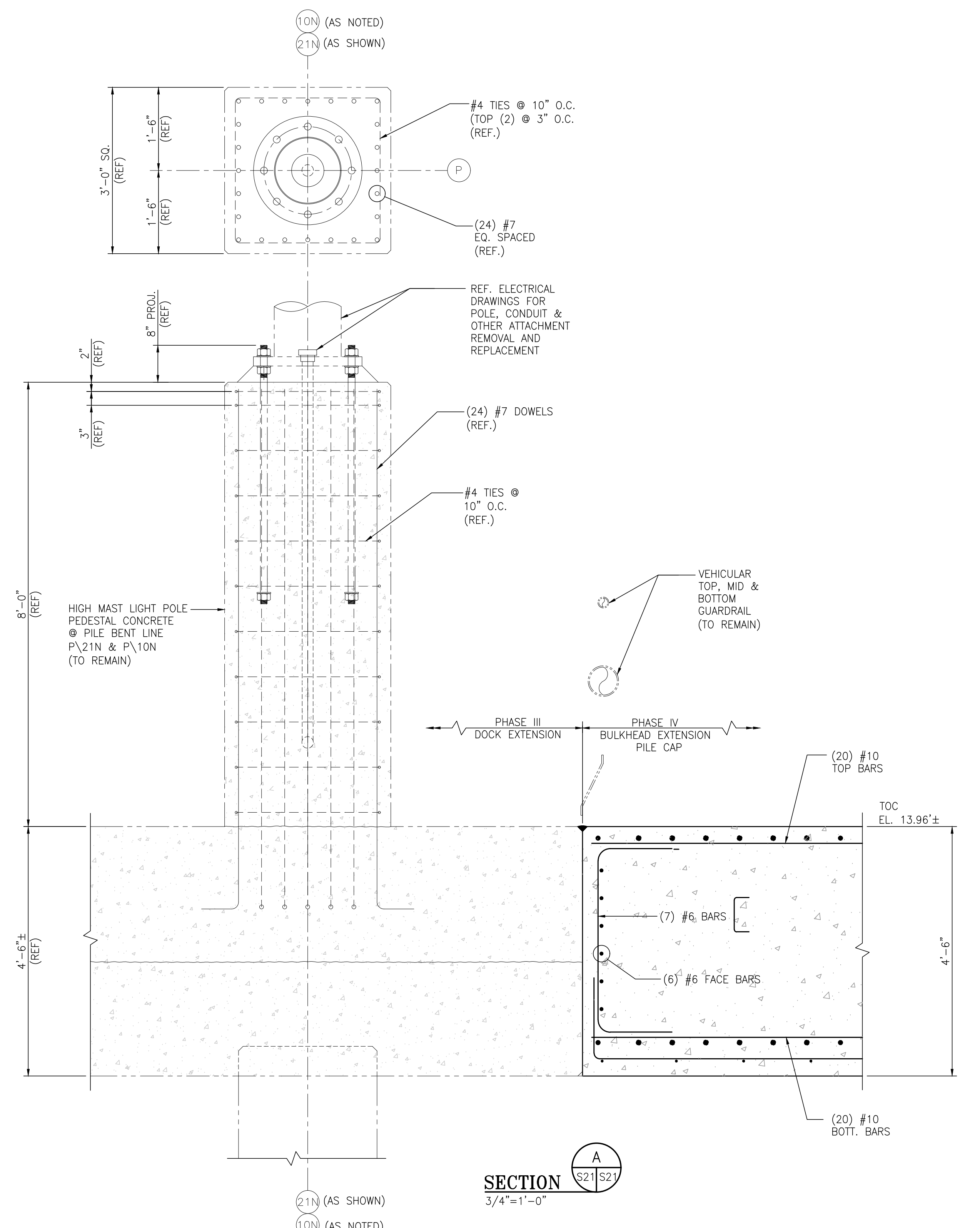
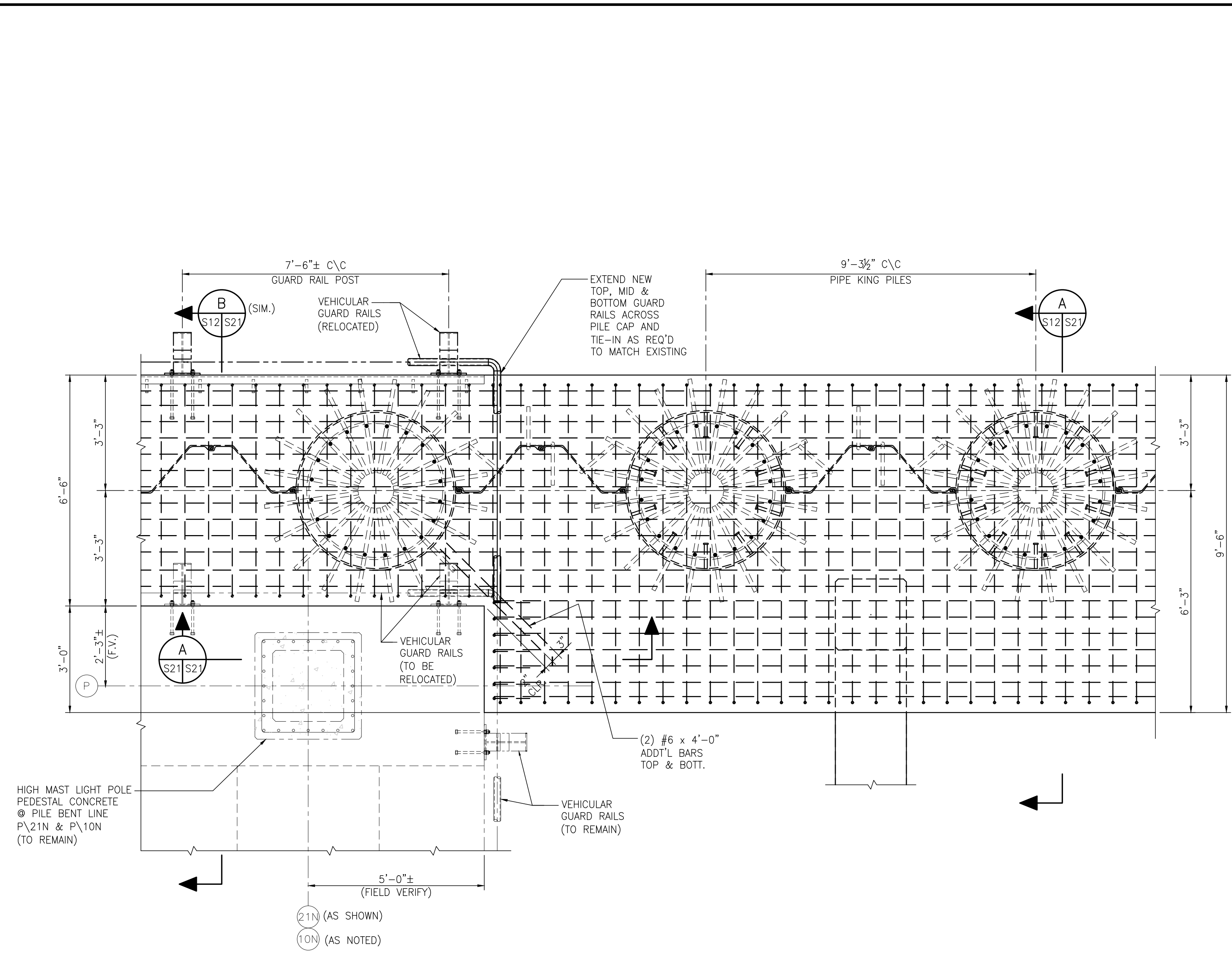
ALABAMA  
PORT AUTHORITY  
PORT OF MOBILE

ASPA PROJECT NO. 11099 TASK 3

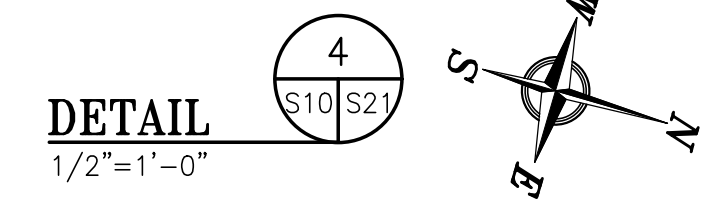
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION  
PILE CAP DETAIL & SECTION

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485 DWG NO: S20



NOTE:  
SEE DETAIL-"5" ON DWG. S9  
FOR PAZ54/NZ19 COMBINATION  
WALL INFORMATION NOT SHOWN  
FOR CLARITY



NOTES

- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.

NO.	REVISION	DATE	BY	CHK'D	APP'D
A	ISSUED FOR BID	04/05/24	RST	JEJ	RSG

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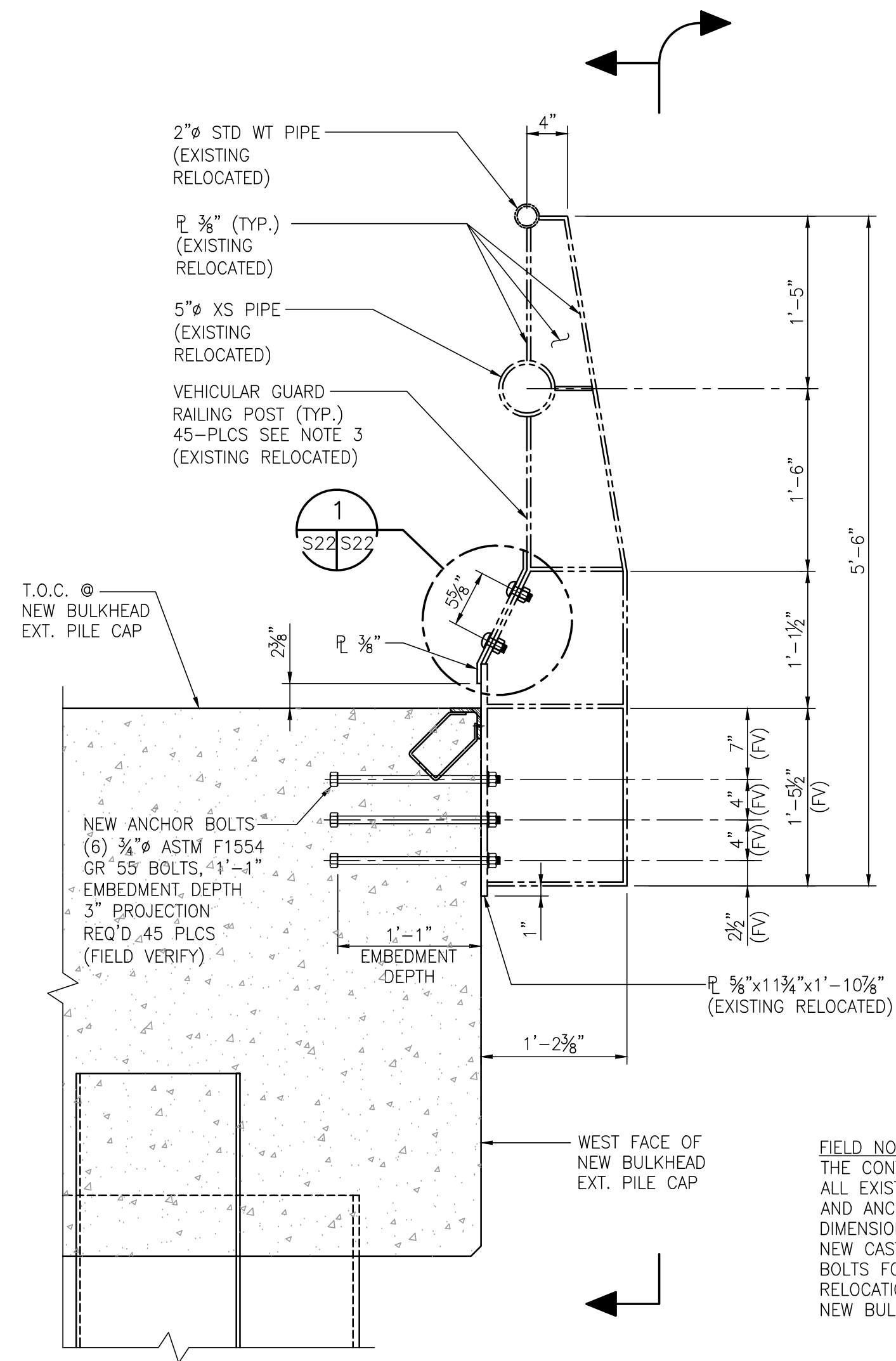
FOR: ALABAMA STATE PORT AUTHORITY

ALABAMA PORT AUTHORITY  
PORT OF MOBILE

ASPA PROJECT NO. 11099 TASK 3  
ASPA DRAWING NO.

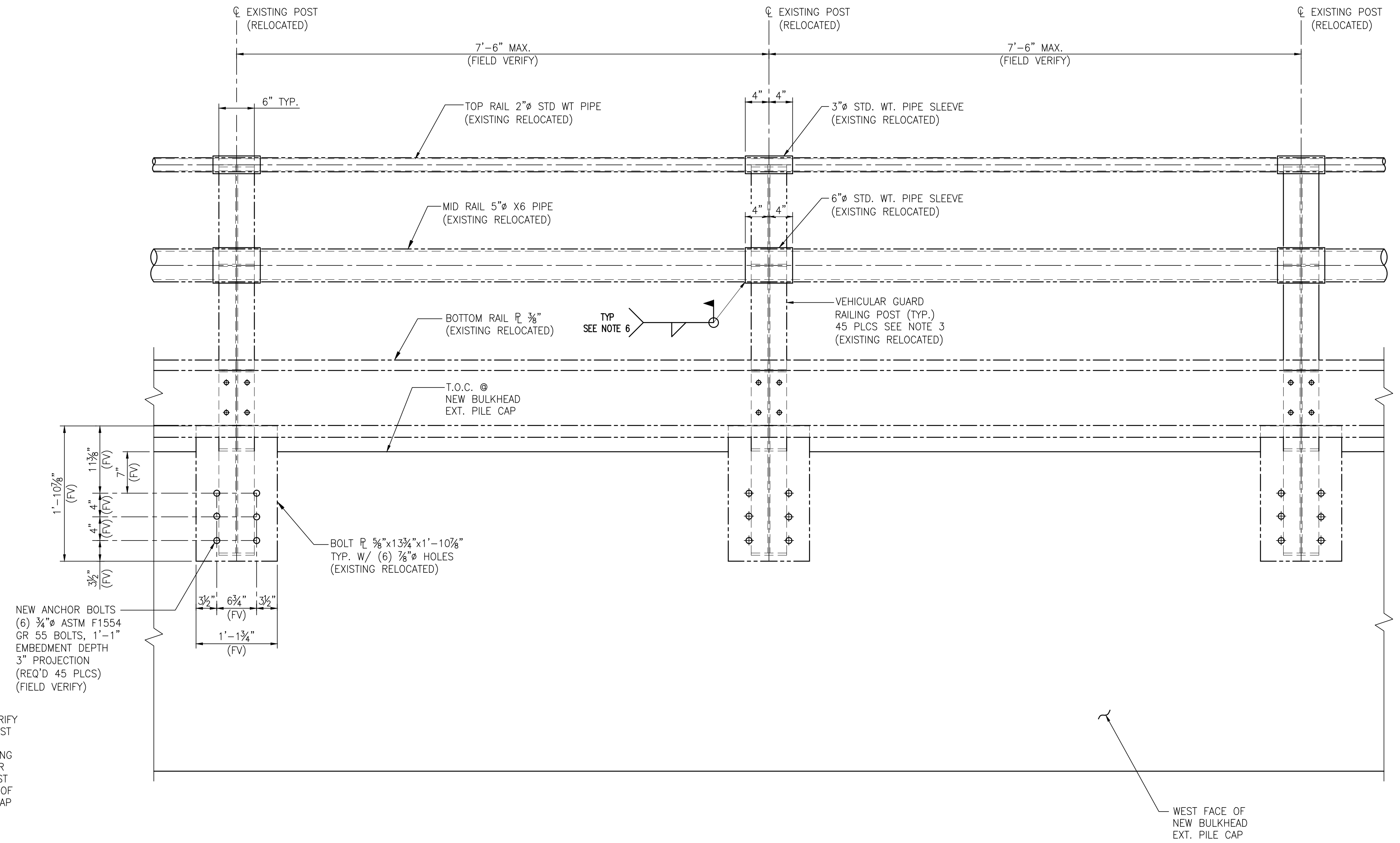
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXTENSION  
PILE CAP DETAIL & SECTION

PROJECT NO: 4485  
DWG NO: S21  
REV: A

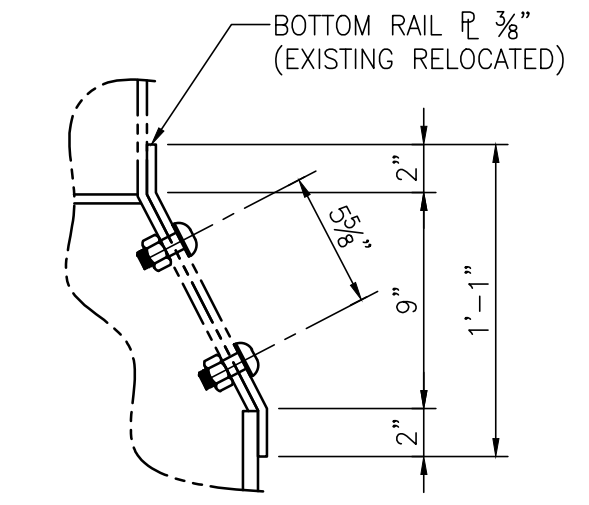


**FIELD NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL EXISTING GUARDRAIL POST AND ANCHOR BOLT SPACING DIMENSIONS PRIOR TO SETTING NEW CAST IN PLACE ANCHOR BOLTS FOR GUARD RAIL POST RELOCATION TO WEST FACE OF NEW BULKHEAD EXT. PILE CAP

**VEHICULAR GUARD RAILING POST RELOCATION-DETAIL** S10,S11,S12,S13,S16,S20,S21,S23,S24 S22  
1"=1'-0" (SEE NOTE 3)



**VEHICULAR GUARD RAILING RELOCATION ELEVATION**  
1"=1'-0"



**DETAIL 1**  
1 1/2"=1'-0"

- NOTES**
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
  - PROJECT DATUM IS BASED ON NAVD88.
  - VEHICULAR RAILING POST DETAIL-1 SHOWN RELOCATED TO THE WEST SIDE OF NEW BULKHEAD EXTENSION PILE CAP. THE VEHICULAR RAILING POST & RAILS AT THE NORTH END OF THE EXISTING PHASE III DOCK SHALL REMAIN IN THEIR CURRENT LOCATION.
  - ALL EXISTING PLATES ARE ASTM A572 GR. 50 AND ALL PIPE SHALL BE ASTM A53, GB, UNO.
  - ALL EXISTING COMPONENTS WERE HOT-DIP GALVANIZED AFTER FABRICATION AND RECEIVED 2 COATS SAFETY YELLOW EPOXY PAINT, SEE PROJECT SPECIFICATION SECTION 05500-MISCELLANEOUS METALS.
  - SEAL WELD PIPE RAIL TO PIPE SLEEVE AT EVERY 3RD POST & AT THE 1ST & LAST POST. SEAL ENDS OF PIPE RAILS AT THE 1ST & LAST POST WITH 3/8" PLATE SEAL WELDED TO END OF PIPE.
  - FIELD WELDED JOINTS SHALL BE COLD GALVANIZED AND PAINTED WITH 2 COATS OF SAFETY YELLOW EPOXY PAINT PER PROJECT SPECIFICATION SECTION 05500-MISCELLANEOUS METALS.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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ASPA PROJECT NO. 11099 TASK 3  
ASPA DRAWING NO.

APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
BULKHEAD EXT. VEHICULAR GUARD RAILING  
RELOCATION ELEVATION & DETAILS

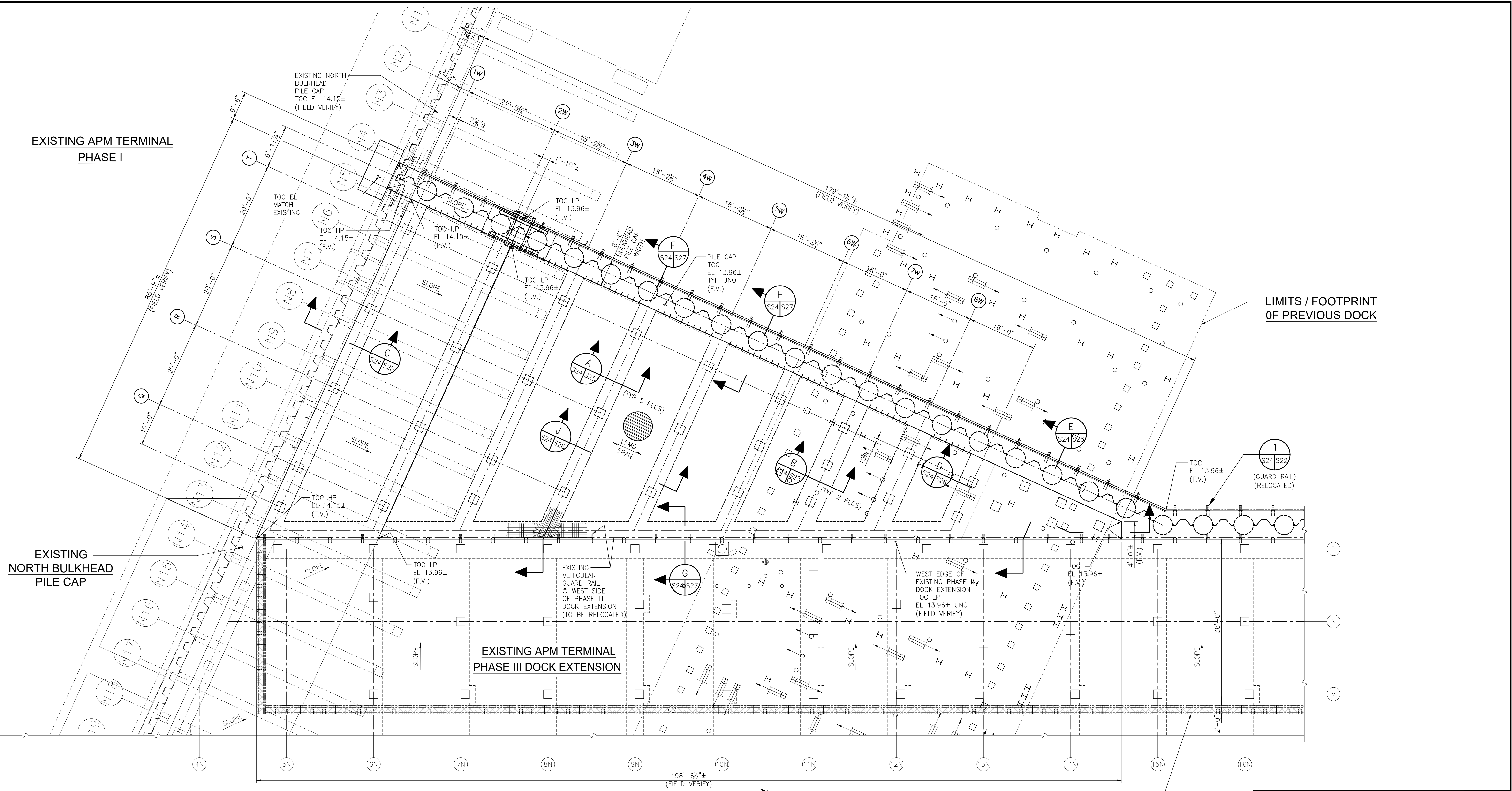
FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485    DWG NO: S22    REV: A

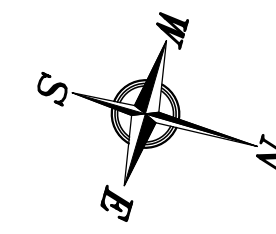




**EXISTING APM TERMINAL  
PHASE I**



**DOCK MODIFICATION DECK PLAN**  
3/32"=1'-0"



JERSEY BARRIERS CONTINUED TO END OF EXISTING DOCK (CONTRACTOR PROVIDED)

**ALABAMA PORT AUTHORITY**  
PORT OF MOBILE

ASPA PROJECT NO: 11099 - TASK 3 | ASPA DRAWING NO:

NOTES

- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
- PROJECT DATUM IS BASED ON NAVD88.
- ALL REFERENCE DIMENSIONS WERE TAKEN FROM EXISTING DRAWINGS, BUT WERE NOT VERIFIED. CONTRACTOR SHALL VERIFY ALL REFERENCE DIMENSIONS PRIOR TO STRUCTURAL WORK AND SHALL NOTIFY THE ENGINEER OF ANY MAJOR DISCREPANCIES.

REFERENCE DRAWINGS	NO.	REVISION	DATE	DRAWN	CK'D	APPD
	A	ISSUED FOR BID	04/05/24	RST	JEU	RSG

**APTIM**  
PORT SERVICES, LLC

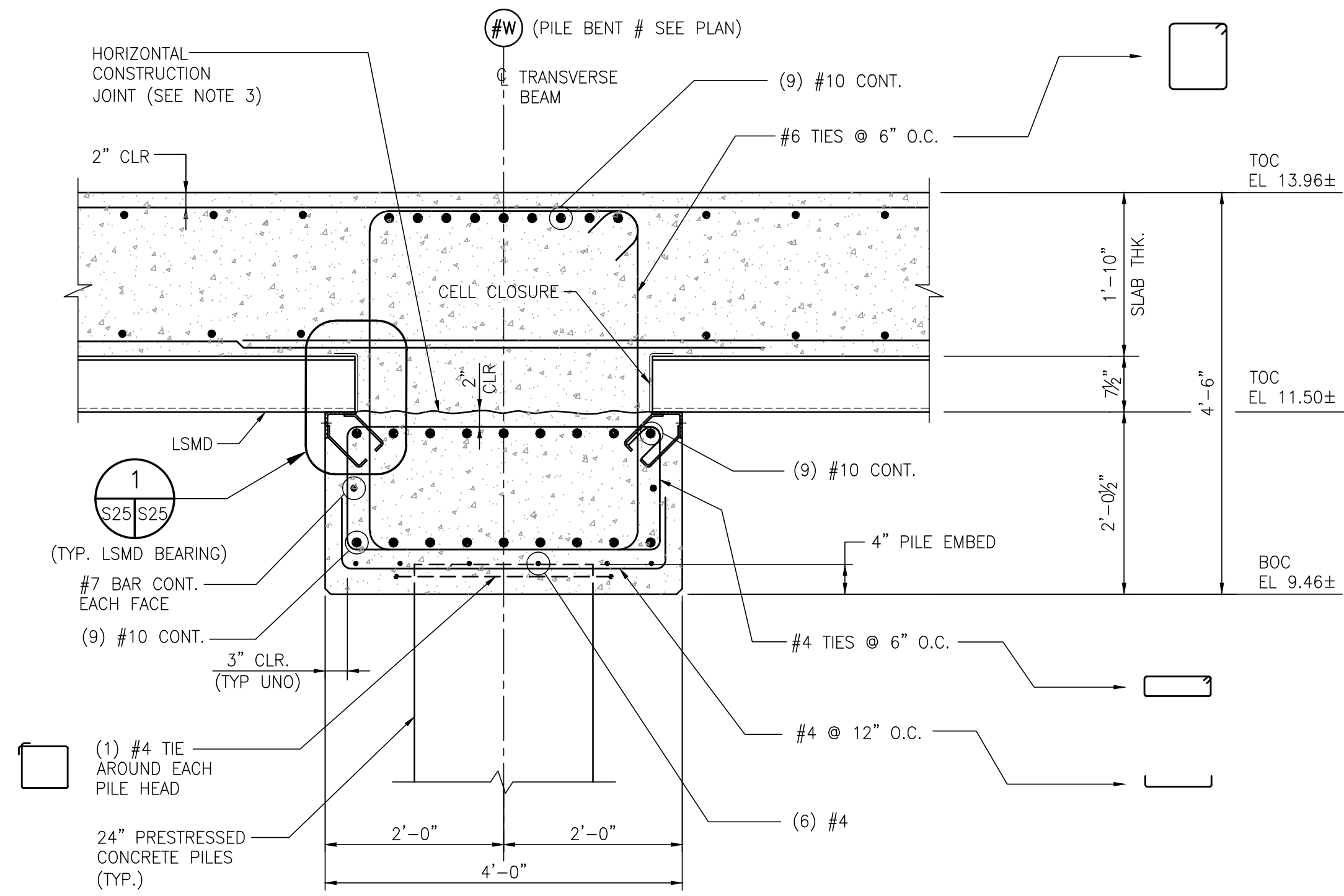
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DATE: 08/11/22 | SCALE: 3/32"=1'-0"

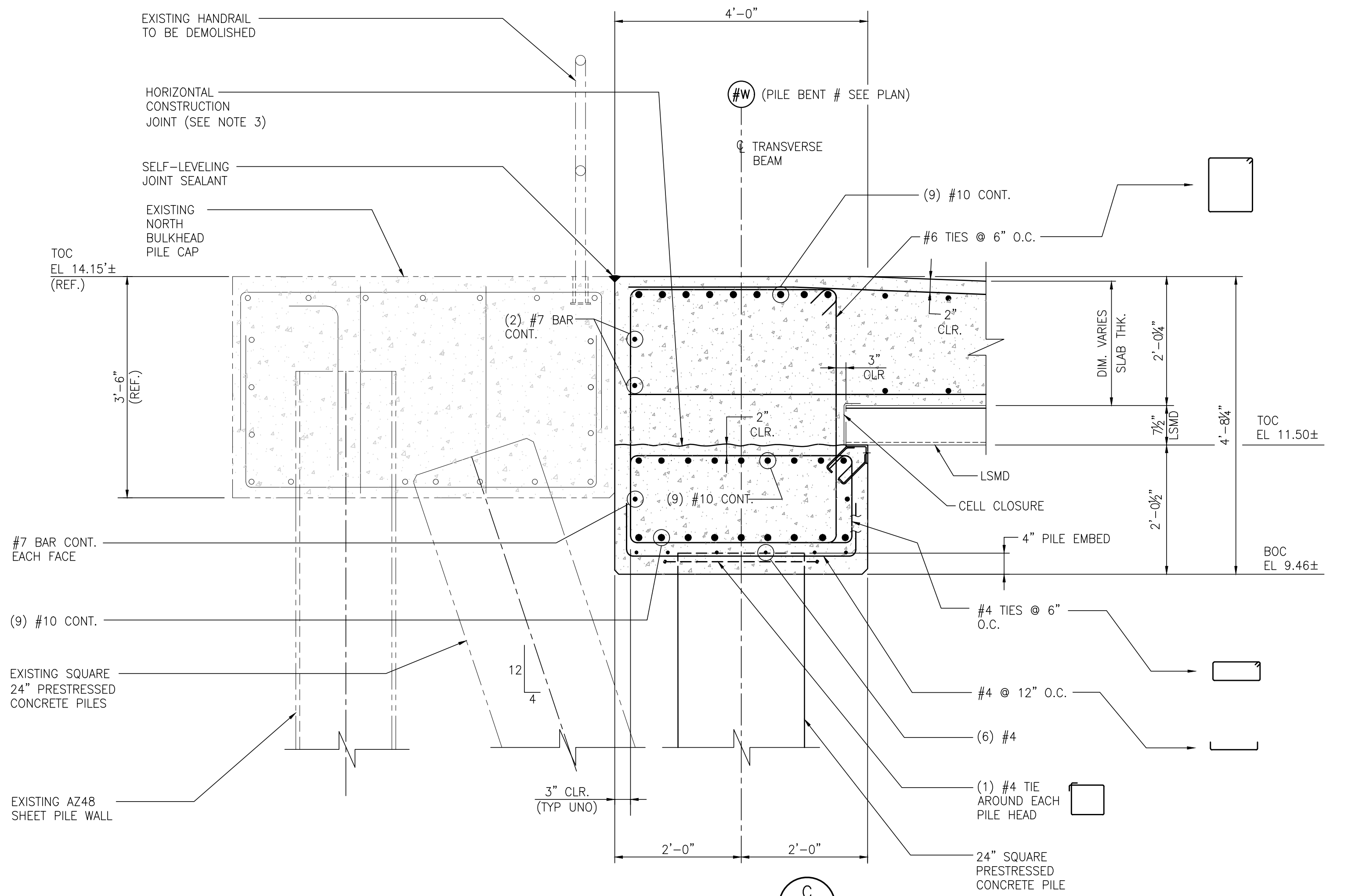
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
DOCK MODIFICATION  
DECK PLAN

FOR: ALABAMA PORT AUTHORITY

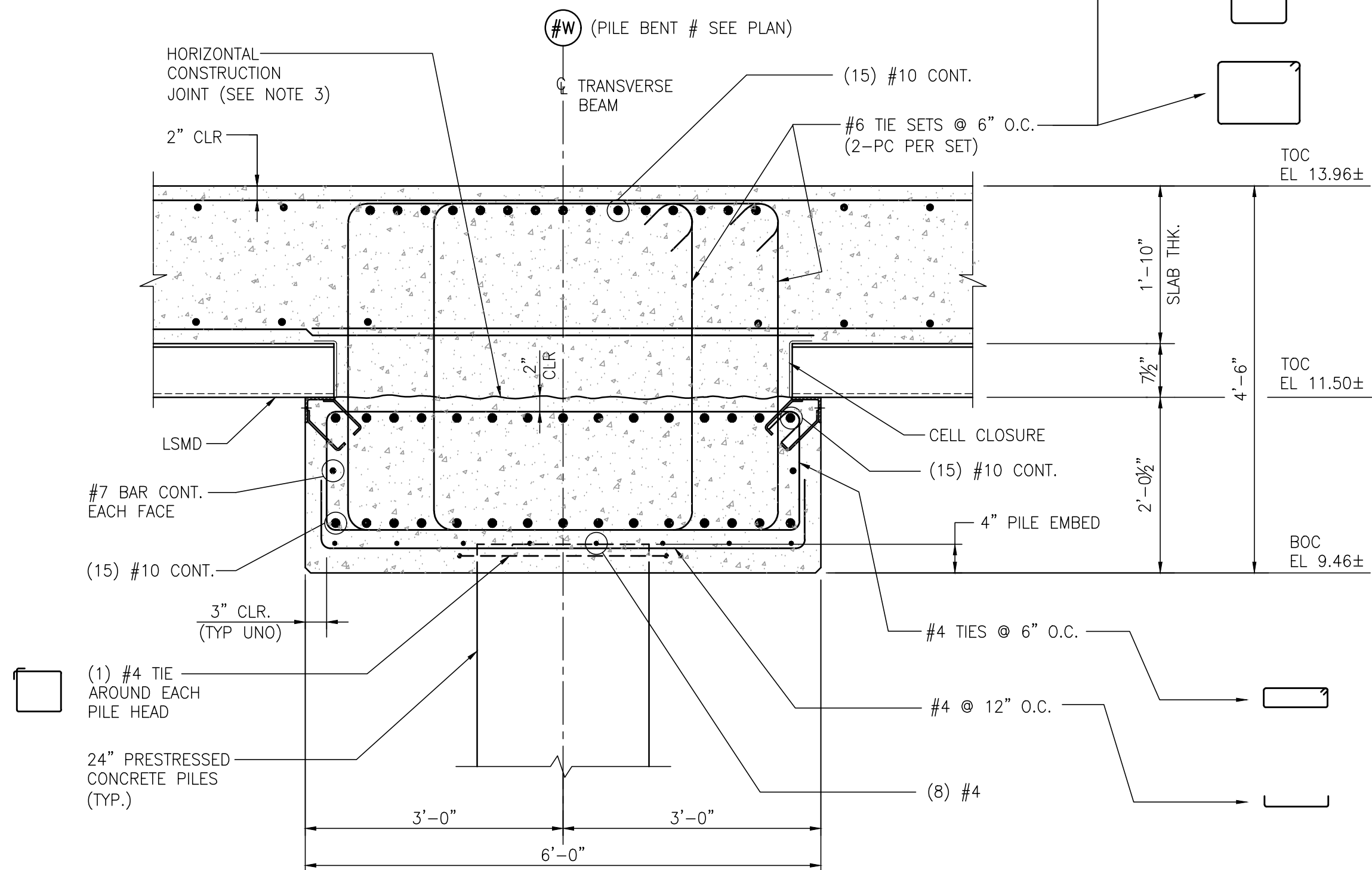
PROJECT NO: 4485 | DWG NO: S24 | REV: A



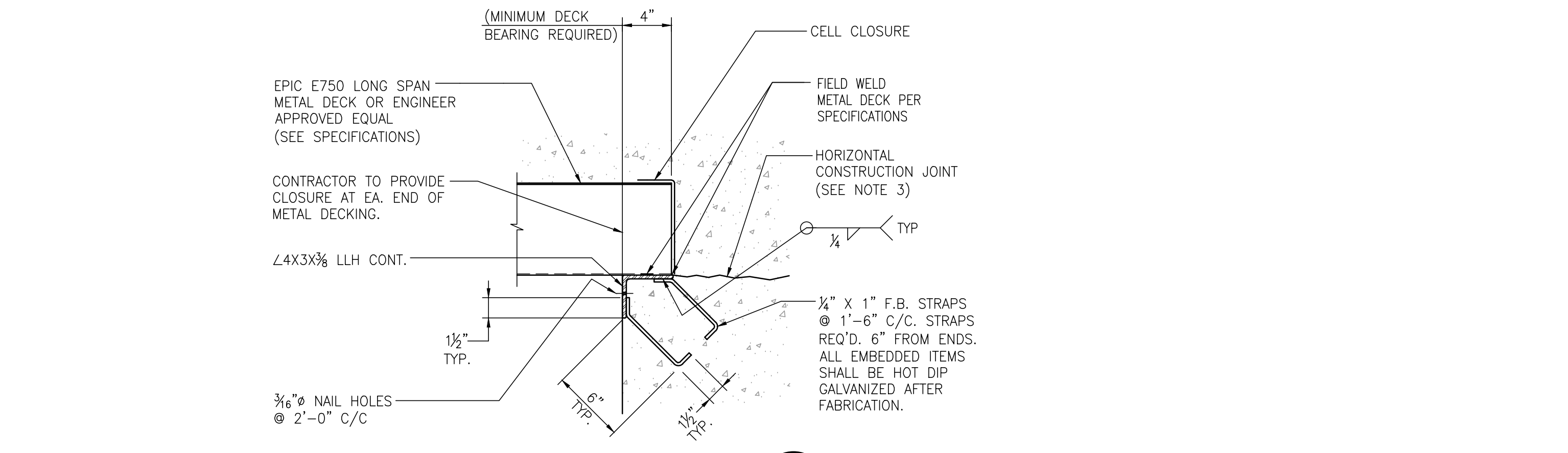
**SECTION A**  
S23, S24, S27, S25  
3/4"=1'-0"



**SECTION C**  
S23, S24, S25  
3/4"=1'-0"



**SECTION B**  
S23, S24, S25  
3/4"=1'-0"



**LSMD BEARING DETAIL**  
S25, S25  
1/2"=1'-0"

- NOTES**
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
  - PROJECT DATUM IS BASED ON NAVD88.
  - ROUGHEN SURFACE OF EXISTING CONCRETE TO A FULL AMPLITUDE OF APPROX. 1/4" PRIOR TO PLACING NEW CONCRETE. SIKADUR 32 HI-MOD LPL BONDING AGENT SHALL BE APPLIED TO ALL CLEAN ROUGHENED SURFACES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEU	RSG	04/05/24

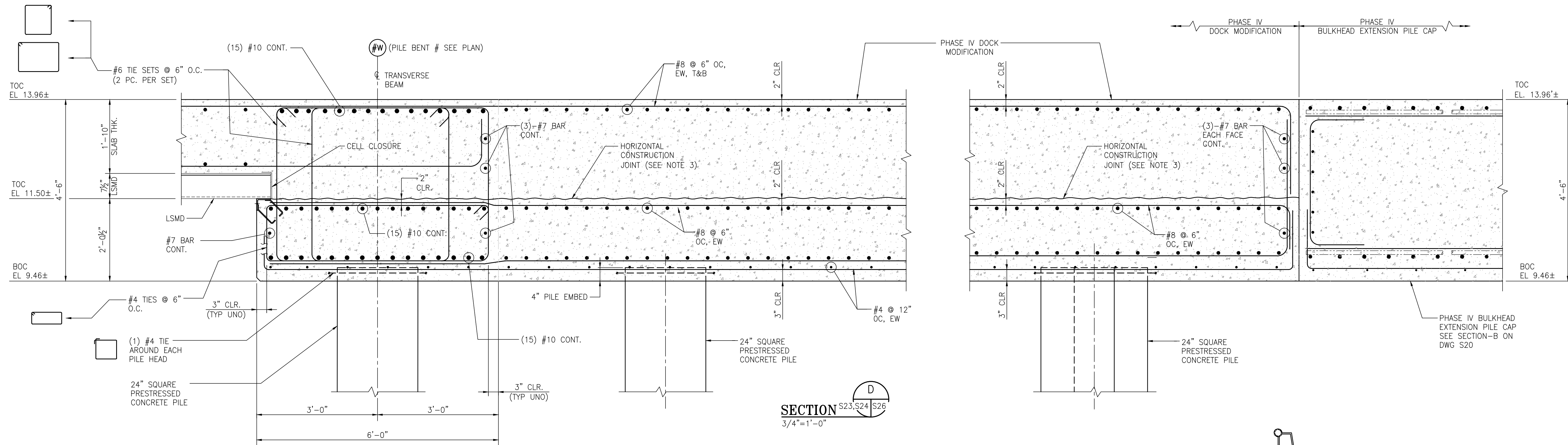
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ASPA PROJECT NO. 11099 - TASK 3  
ASPA DRAWING NO.

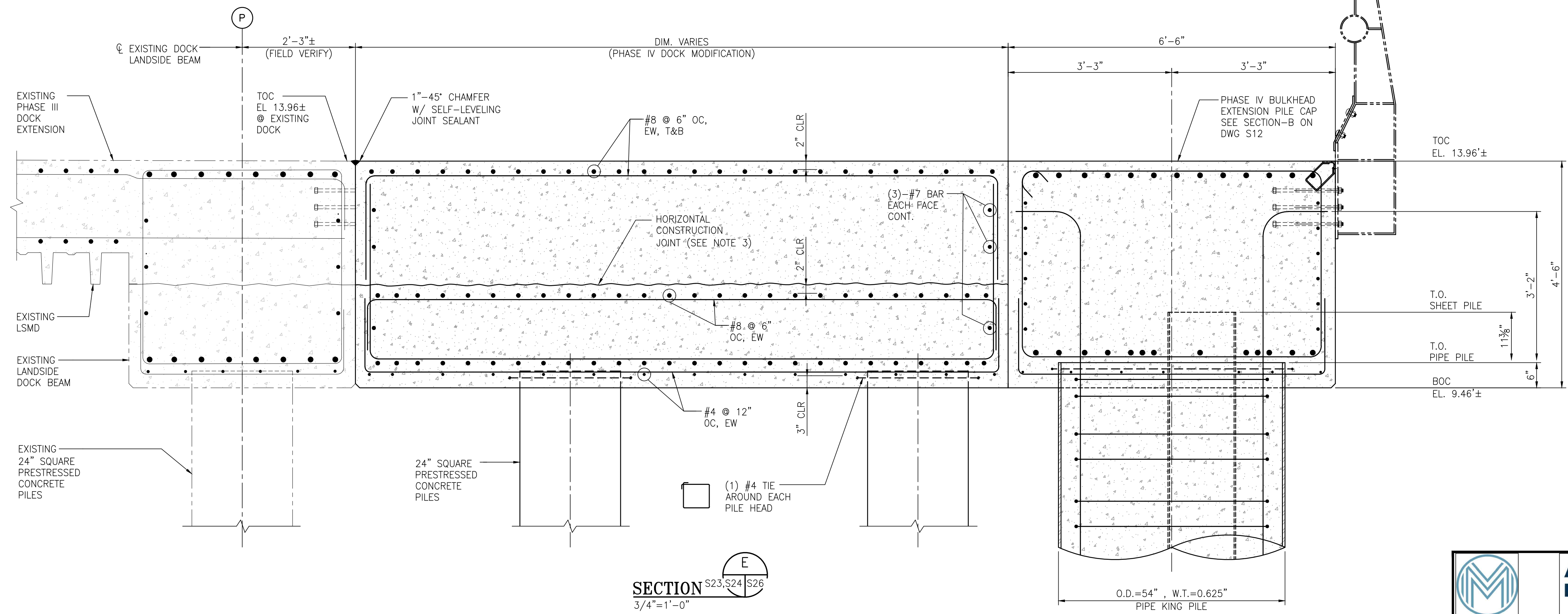
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
DOCK MODIFICATION - CONCRETE  
SECTIONS & DETAILS

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4485    DWG NO: S25    REV: A



SECTION D  
3/4"=1'-0"



SECTION E  
3/4"=1'-0"

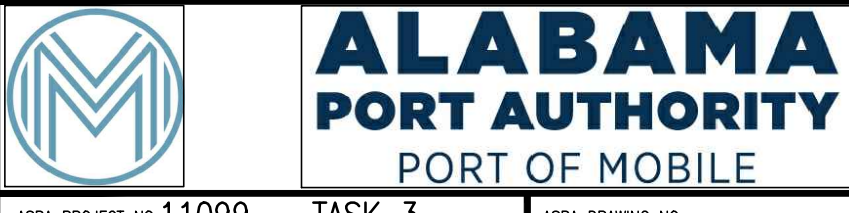
NOTES

- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
- PROJECT DATUM IS BASED ON NAVD88.
- ROUGHEN SURFACE OF EXISTING CONCRETE TO A FULL AMPLITUDE OF APPROX. 1/4" PRIOR TO PLACING NEW CONCRETE. SIKADUR 32 HI-MOD LPL BONDING AGENT SHALL BE APPLIED TO ALL CLEAN ROUGHENED SURFACES.

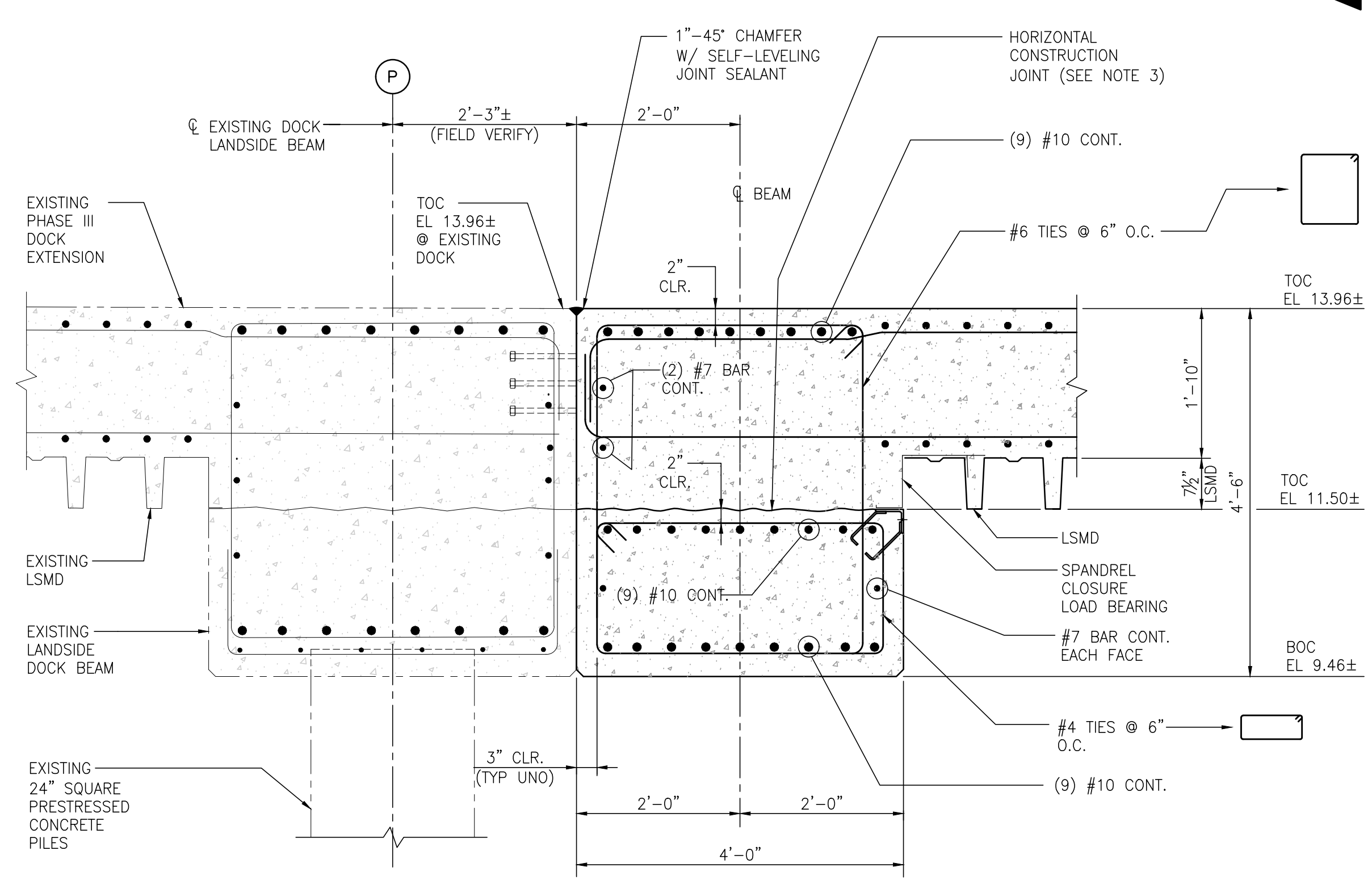
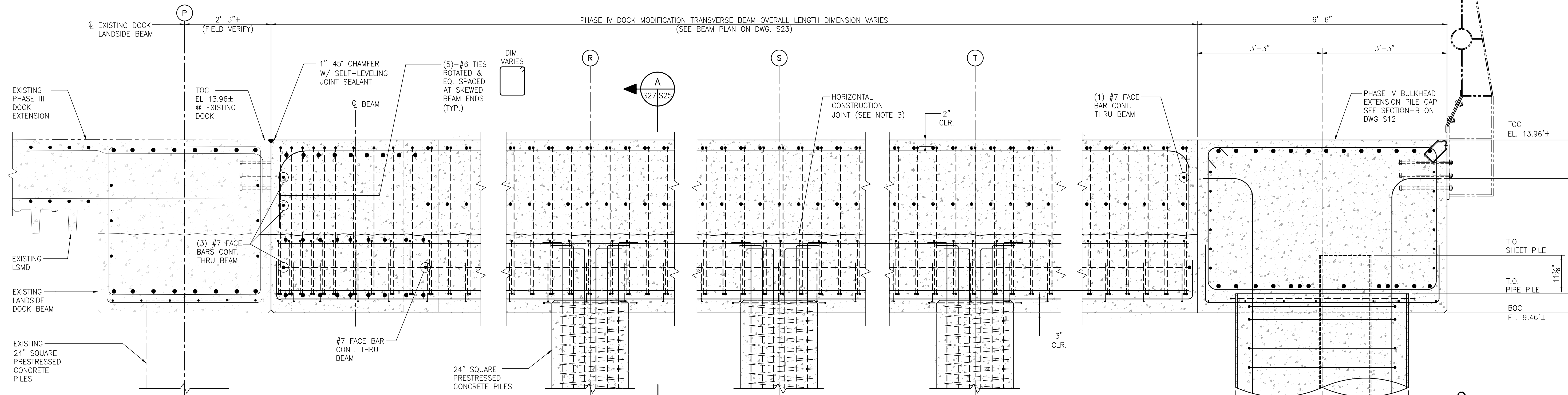
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEU	RSG	04/05/24



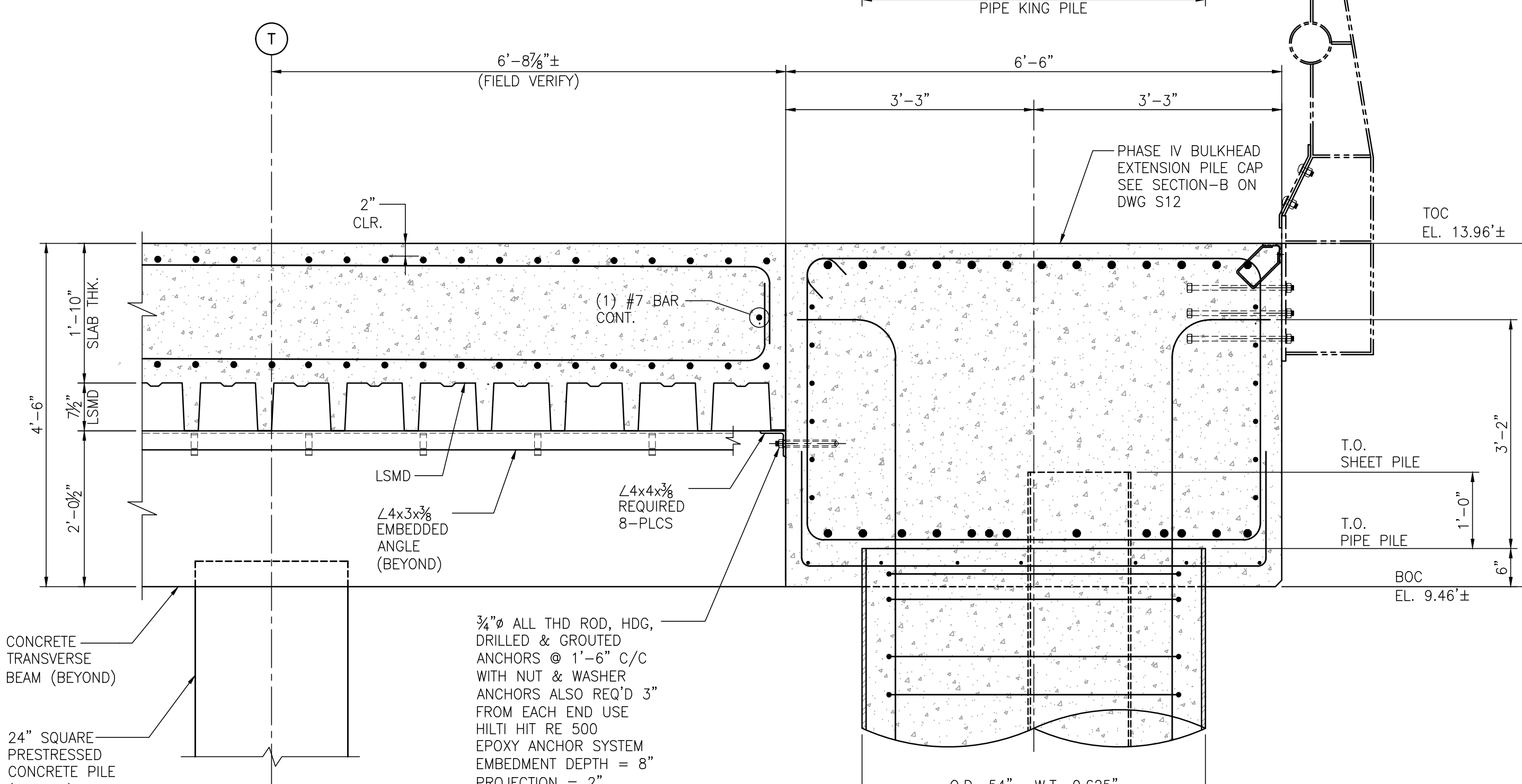
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ASPA PROJECT NO. 11099 - TASK 3  
ASPA DRAWING NO.  
APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
DOCK MODIFICATION - CONCRETE  
SECTIONS & DETAILS  
FOR: ALABAMA STATE PORT AUTHORITY  
PROJECT NO: 4485 DWG NO: S26 REV: A



**SECTION F**  
S23, S24, S27  
3/4"=1'-0"



**SECTION H**  
S23, S24, S27  
3/4"=1'-0"

**SECTION G**  
S23, S24, S27  
3/4"=1'-0"

**NOTE:**  
1. ALL HORIZONTAL BEAM REINFORCING SHOWN IN THIS SECTION SHALL BE CONTINUOUS THRU EAST END OF ALL TRANSVERSE BEAMS



ASPA PROJECT NO. 11099 - TASK 3  
ASPA DRAWING NO.

- NOTES**
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
  - PROJECT DATUM IS BASED ON NAVD88.
  - ROUGHEN SURFACE OF EXISTING CONCRETE TO A FULL AMPLITUDE OF APPROX. 1/4" PRIOR TO PLACING NEW CONCRETE. SIKADUR 32 HI-MOD LPL BONDING AGENT SHALL BE APPLIED TO ALL CLEAN ROUGHENED SURFACES.

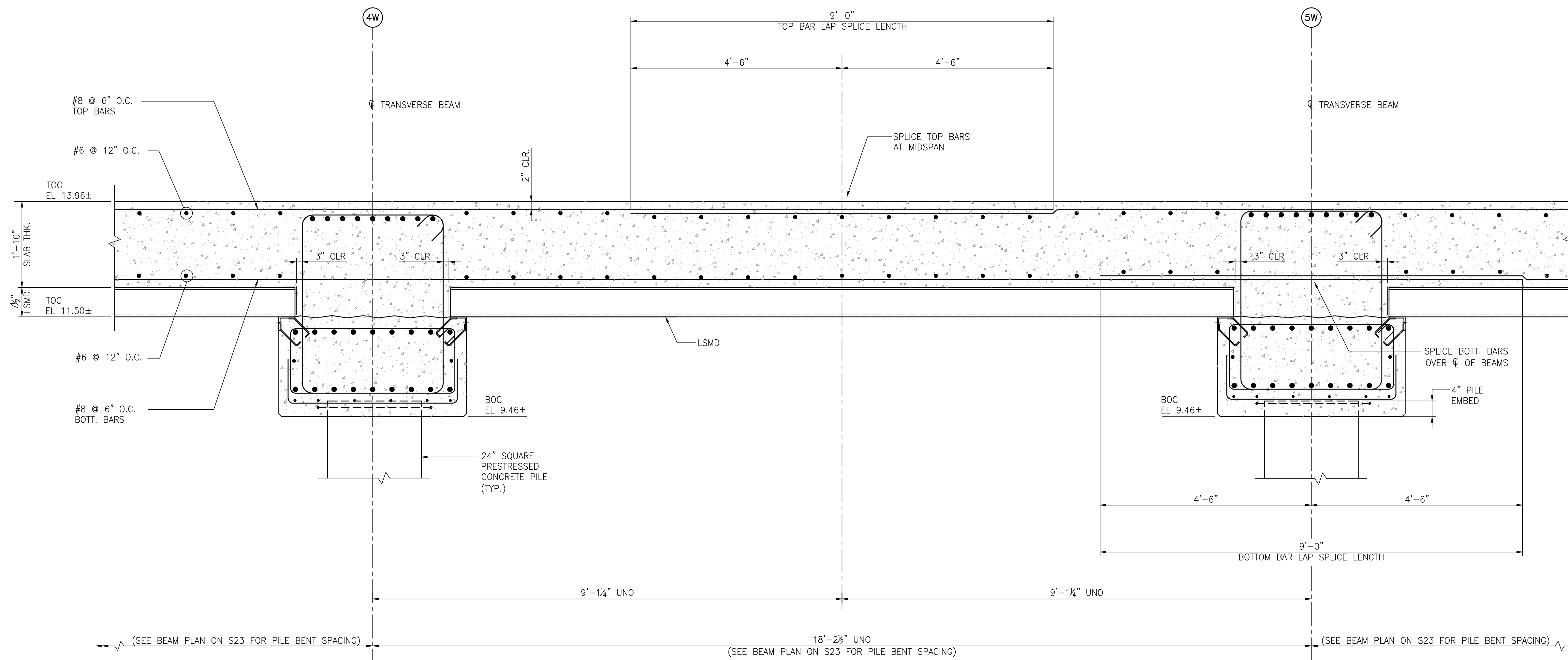
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEU	RSG	04/05/24

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**APMT PHASE IV DOCK MOD. & BULKHEAD EXT. DOCK MODIFICATION - CONCRETE SECTIONS & DETAILS**

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO:	4485	DWG NO:	S27	REV:	A
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SECTION  $\frac{3}{4}'' = 1'-0''$   
 S23, S24, S28  
 J



ASPA PROJECT NO. 11099 - TASK 3 ASPA DRAWING NO.

- NOTES
- SEE DWG. S1 FOR PROJECT GENERAL, STRUCTURAL NOTES.
  - PROJECT DATUM IS BASED ON NAVD88.
  - ROUGHEN SURFACE OF EXISTING CONCRETE TO A FULL AMPLITUDE OF APPROX.  $\frac{1}{4}''$  PRIOR TO PLACING NEW CONCRETE. SIKADUR 32 HI-MOD LPL BONDING AGENT SHALL BE APPLIED TO ALL CLEAN ROUGHENED SURFACES.

NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	RST	JEJ	RSG	04/05/24

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APMT PHASE IV DOCK MOD. & BULKHEAD EXT.  
 DOCK MODIFICATION - CONCRETE  
 SECTIONS & DETAILS  
 FOR: ALABAMA STATE PORT AUTHORITY  
 PROJECT NO: 4485 DWG NO: S28 REV: A







