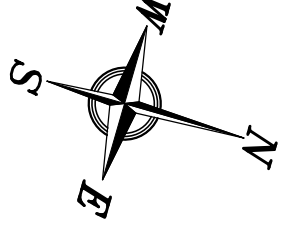


INDICATES SOIL BORING LOCATION & LOG SEE DWG. C3 & C4

NOTE:
 THE CONTRACTOR SHALL PERFORM DEBRIS REMOVAL AND DISPOSAL FOR THE RIVER BOTTOM IN DEMOLITION AREA 3 APPROXIMATELY 10'-0" BEYOND PREVIOUS WHARF CURB LINE AS REQUIRED FOR THE INSTALLATION OF THE NEW PILING.

AS BUILT

DEMOLITION AREA LOCATION PLAN
 1" = 20'



| | |
|-------------------------------------|------------------|
| ALABAMA STATE PORT AUTHORITY | |
| MOBILE | ALABAMA |
| ASPA PROJECT NO: 10481 | ASPA DRAWING NO: |

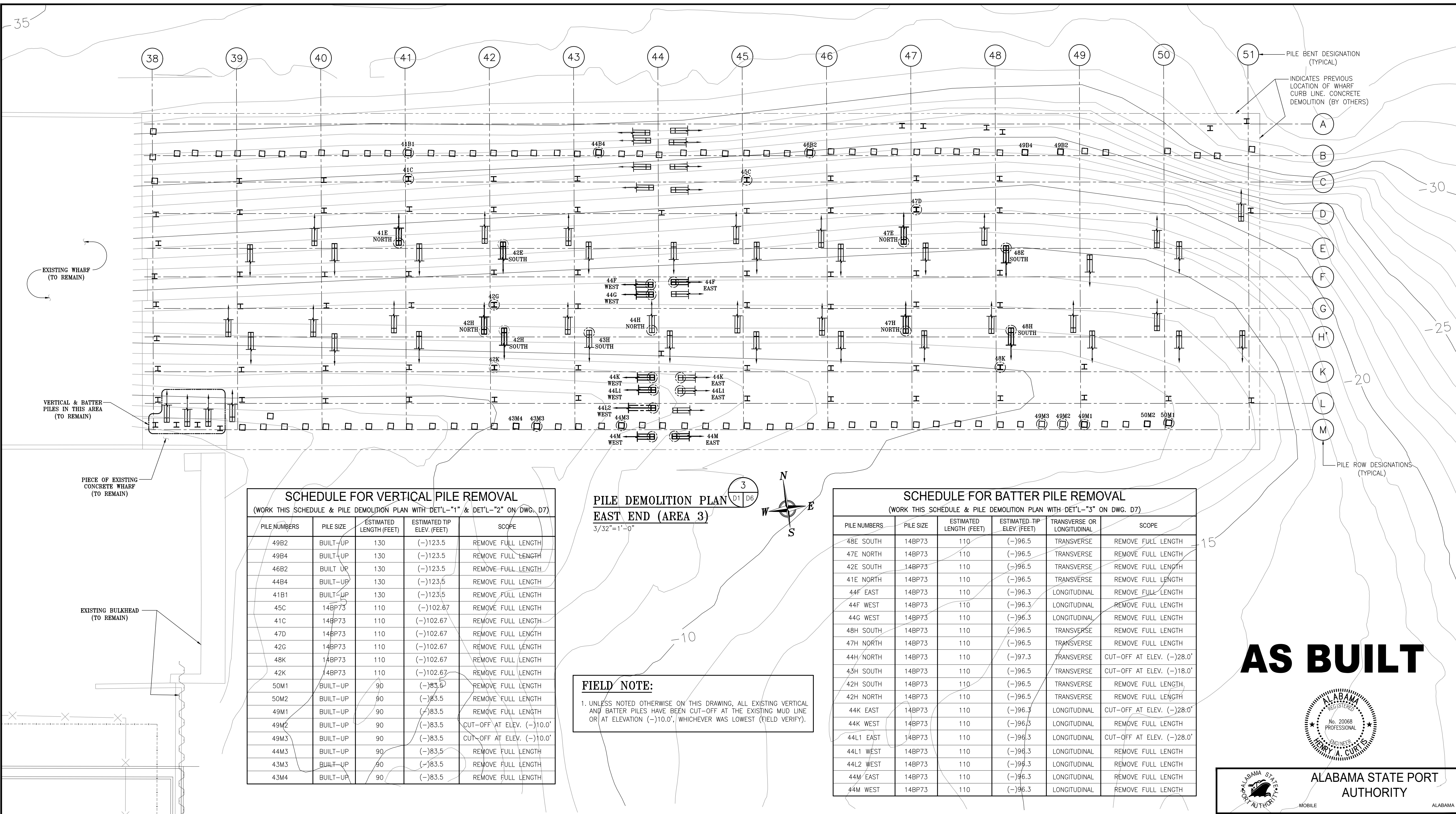
| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |



THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL 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.

DRAWN: RST CK'D: HAC APPD: RSG DATE: 3/20/18 SCALE: 1"=20'

| | |
|-----------------------------------|------------|
| APMT DOCK EXTENSION PACKAGE | |
| EXISTING MAIN DOCK (NORTH END) | |
| DEMOLITION AREA LOCATION PLAN | |
| FOR: ALABAMA STATE PORT AUTHORITY | |
| PROJECT NO: 4111 | DWG NO: D1 |
| REV: 1 | |



SCHEDULE FOR VERTICAL PILE REMOVAL
(WORK THIS SCHEDULE & PILE DEMOLITION PLAN WITH DET'L-1" & DET'L-2" ON DWG. D7)

| PILE NUMBERS | PILE SIZE | ESTIMATED LENGTH (FEET) | ESTIMATED TIP ELEV. (FEET) | SCOPE |
|--------------|-----------|-------------------------|----------------------------|---------------------------|
| 49B2 | BUILT-UP | 130 | (-)123.5 | REMOVE FULL LENGTH |
| 49B4 | BUILT-UP | 130 | (-)123.5 | REMOVE FULL LENGTH |
| 46B2 | BUILT-UP | 130 | (-)123.5 | REMOVE FULL LENGTH |
| 44B4 | BUILT-UP | 130 | (-)123.5 | REMOVE FULL LENGTH |
| 41B1 | BUILT-UP | 130 | (-)123.5 | REMOVE FULL LENGTH |
| 45C | 14BP73 | 110 | (-)102.67 | REMOVE FULL LENGTH |
| 41C | 14BP73 | 110 | (-)102.67 | REMOVE FULL LENGTH |
| 47D | 14BP73 | 110 | (-)102.67 | REMOVE FULL LENGTH |
| 42C | 14BP73 | 110 | (-)102.67 | REMOVE FULL LENGTH |
| 48K | 14BP73 | 110 | (-)102.67 | REMOVE FULL LENGTH |
| 42K | 14BP73 | 110 | (-)102.67 | REMOVE FULL LENGTH |
| 50M1 | BUILT-UP | 90 | (-)83.5 | REMOVE FULL LENGTH |
| 50M2 | BUILT-UP | 90 | (-)83.5 | REMOVE FULL LENGTH |
| 49M1 | BUILT-UP | 90 | (-)83.5 | REMOVE FULL LENGTH |
| 49M2 | BUILT-UP | 90 | (-)83.5 | CUT-OFF AT ELEV. (-)10.0' |
| 49M3 | BUILT-UP | 90 | (-)83.5 | CUT-OFF AT ELEV. (-)10.0' |
| 44M3 | BUILT-UP | 90 | (-)83.5 | REMOVE FULL LENGTH |
| 43M3 | BUILT-UP | 90 | (-)83.5 | REMOVE FULL LENGTH |
| 43M4 | BUILT-UP | 90 | (-)83.5 | REMOVE FULL LENGTH |

PILE DEMOLITION PLAN
EAST END (AREA 3)
3/32"=1'-0"

FIELD NOTE:
1. UNLESS NOTED OTHERWISE ON THIS DRAWING, ALL EXISTING VERTICAL AND BATTER PILES HAVE BEEN CUT-OFF AT THE EXISTING MUD LINE OR AT ELEVATION (-)10.0', WHICHEVER WAS LOWEST (FIELD VERIFY).

SCHEDULE FOR BATTER PILE REMOVAL
(WORK THIS SCHEDULE & PILE DEMOLITION PLAN WITH DET'L-3" ON DWG. D7)

| PILE NUMBERS | PILE SIZE | ESTIMATED LENGTH (FEET) | ESTIMATED TIP ELEV. (FEET) | TRANSVERSE OR LONGITUDINAL | SCOPE |
|--------------|-----------|-------------------------|----------------------------|----------------------------|---------------------------|
| 48E SOUTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 47E NORTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 42E SOUTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 41E NORTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 44F EAST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |
| 44F WEST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |
| 44G WEST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |
| 48H SOUTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 47H NORTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 44H NORTH | 14BP73 | 110 | (-)97.3 | TRANSVERSE | CUT-OFF AT ELEV. (-)28.0' |
| 43H SOUTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | CUT-OFF AT ELEV. (-)18.0' |
| 42H SOUTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 42H NORTH | 14BP73 | 110 | (-)96.5 | TRANSVERSE | REMOVE FULL LENGTH |
| 44K EAST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | CUT-OFF AT ELEV. (-)28.0' |
| 44K WEST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |
| 44L1 EAST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | CUT-OFF AT ELEV. (-)28.0' |
| 44L1 WEST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |
| 44L2 WEST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |
| 44M EAST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |
| 44M WEST | 14BP73 | 110 | (-)96.3 | LONGITUDINAL | REMOVE FULL LENGTH |

AS BUILT



ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

NOTES

- PROJECT VERTICAL DATUM IS BASED ON NAVD88.

| REFERENCE DRAWINGS | NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|---|-----|-------------------------|-------|------|------|----------|
| 417B-S7 MAIN WHARF SECTIONS & PILE DETAILS / ORE TERMINAL MAIN WHARF PROJECT (1952) | | | | | | |
| 417B-S6 MAIN WHARF SECTIONS & PILE DETAILS / ORE TERMINAL MAIN WHARF PROJECT (1952) | 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 417B-S2 MAIN WHARF PILE PLAN & DETAILS / ORE TERMINAL MAIN WHARF PROJECT (1952) | 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |

APTIM
PORT SERVICES, LLC

THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL 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.

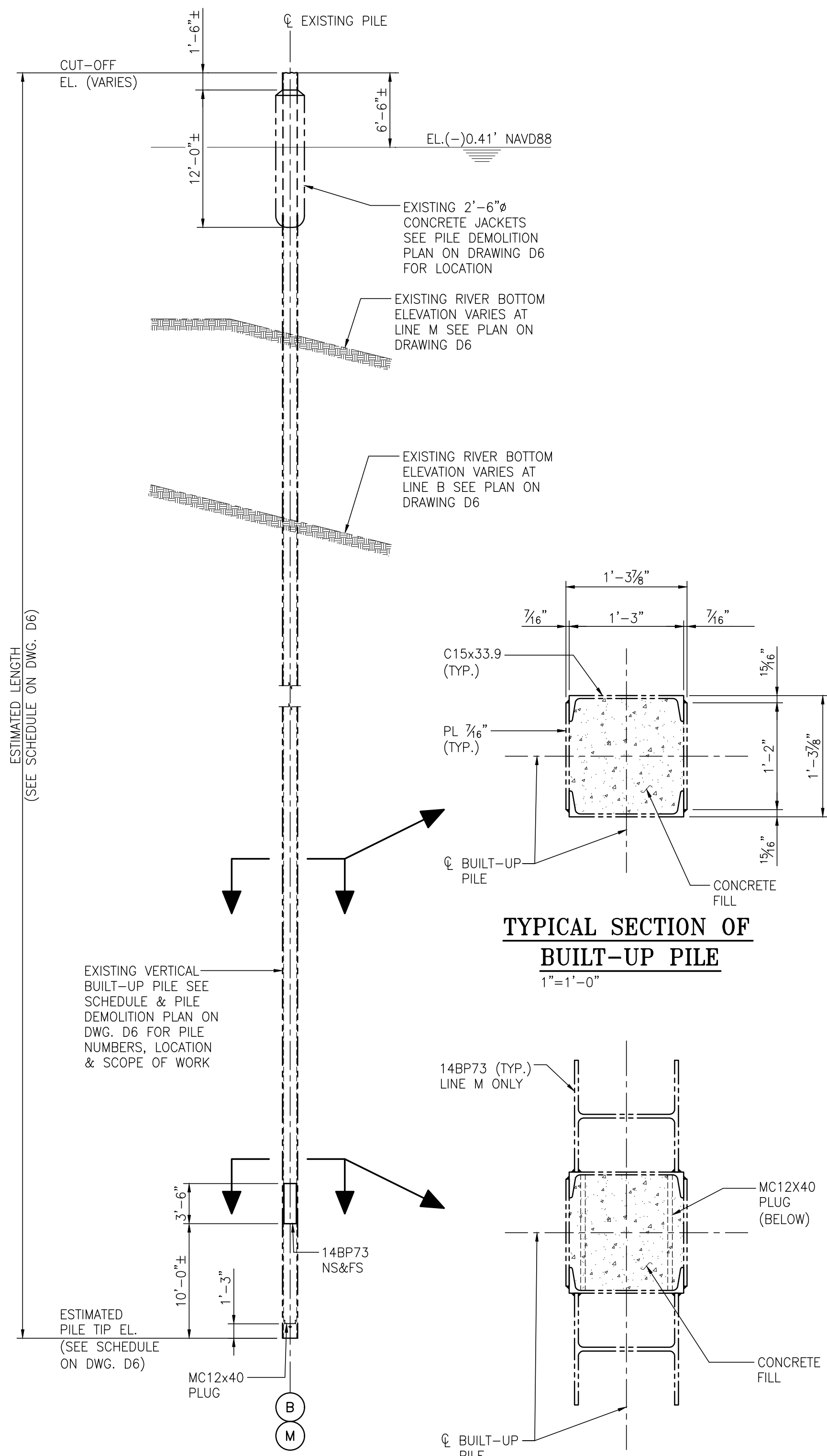
DRAWN: RST CK'D: HAC APPD: RSG DATE: 7/20/18 SCALE: 3/32"=1'-0"

ASPA PROJECT NO: 10481 ASPA DRAWING NO:

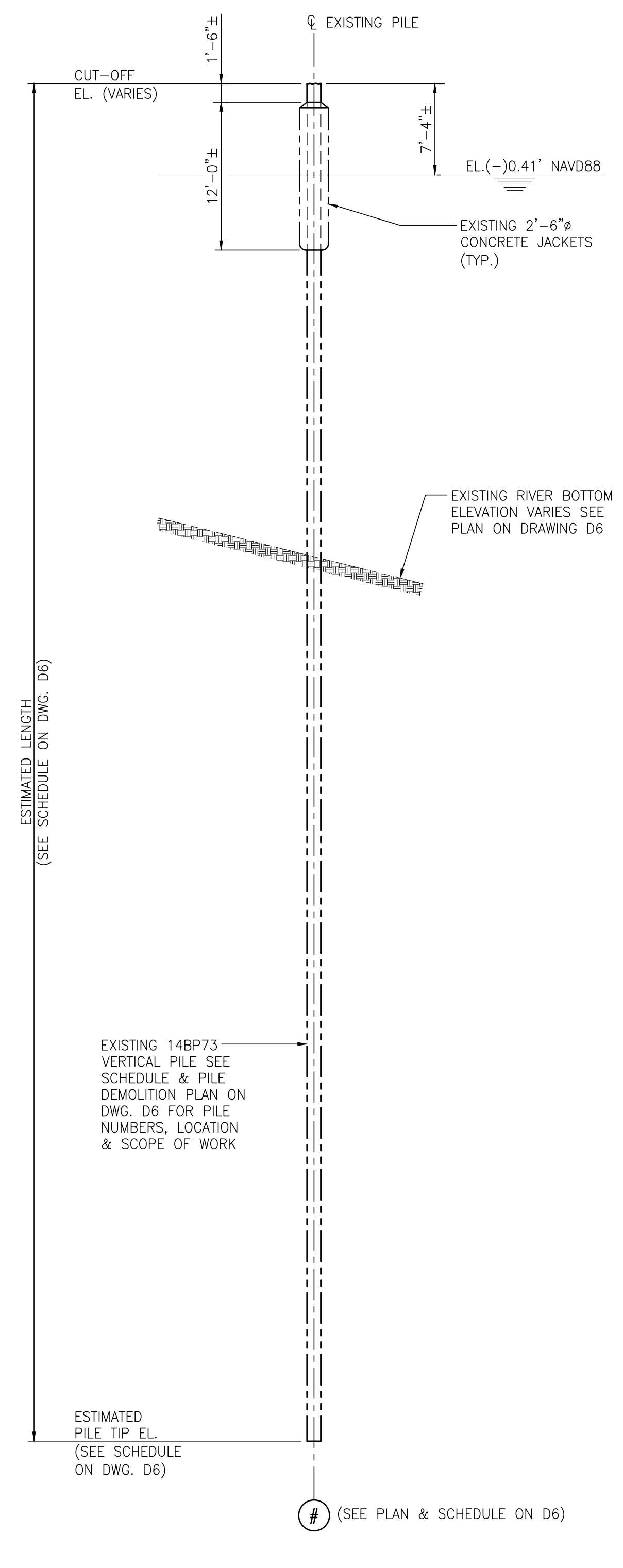
APMT DOCK EXTENSION PACKAGE
EXISTING WHARF (EAST END AREA 3)
PILE DEMOLITION PLAN, SCHEDULE & NOTES

FOR: ALABAMA STATE PORT AUTHORITY

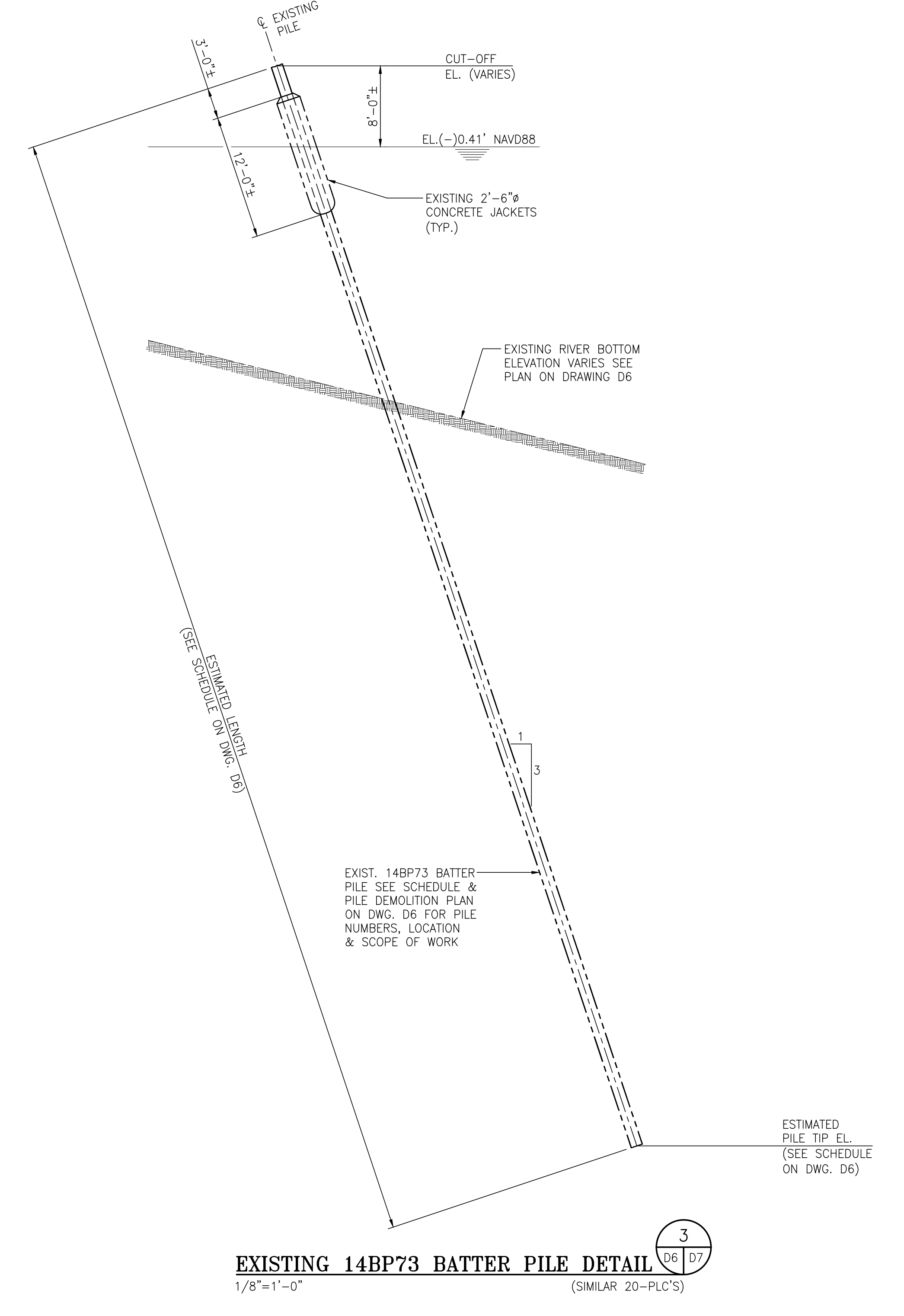
PROJECT NO: 4111 DWG NO: D6 REV: 1



EXISTING BUILT-UP VERTICAL PILE DETAIL
1/8"=1'-0" (SIMILAR 13-PLC'S)



EXISTING 14BP73 VERTICAL PILE DETAIL
1/8"=1'-0" (SIMILAR 6-PLC'S)



EXISTING 14BP73 BATTER PILE DETAIL
1/8"=1'-0" (SIMILAR 20-PLC'S)



AS BUILT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

ASPA PROJECT NO: 10481 ASPA DRAWING NO:

APMT DOCK EXTENSION PACKAGE
EXISTING WHARF (EAST END AREA 3)
PILE DEMOLITION DETAILS

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: D7 REV: 1

| NO. | REVISION | DRAWN | CK'D | APPD | DATE | | |
|---------|---|-------|-------------------------|------|------|-----|----------|
| 417B-S7 | MAIN WHARF SECTIONS & PILE DETAILS / ORE TERMINAL MAIN WHARF PROJECT (1952) | | | | | | |
| 417B-S6 | MAIN WHARF SECTIONS & PILE DETAILS / ORE TERMINAL MAIN WHARF PROJECT (1952) | 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 417B-S2 | MAIN WHARF PILE PLAN & DETAILS / ORE TERMINAL MAIN WHARF PROJECT (1952) | 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |
| | REFERENCE DRAWINGS | NO. | | | | | |

APTIM
PORT SERVICES, LLC

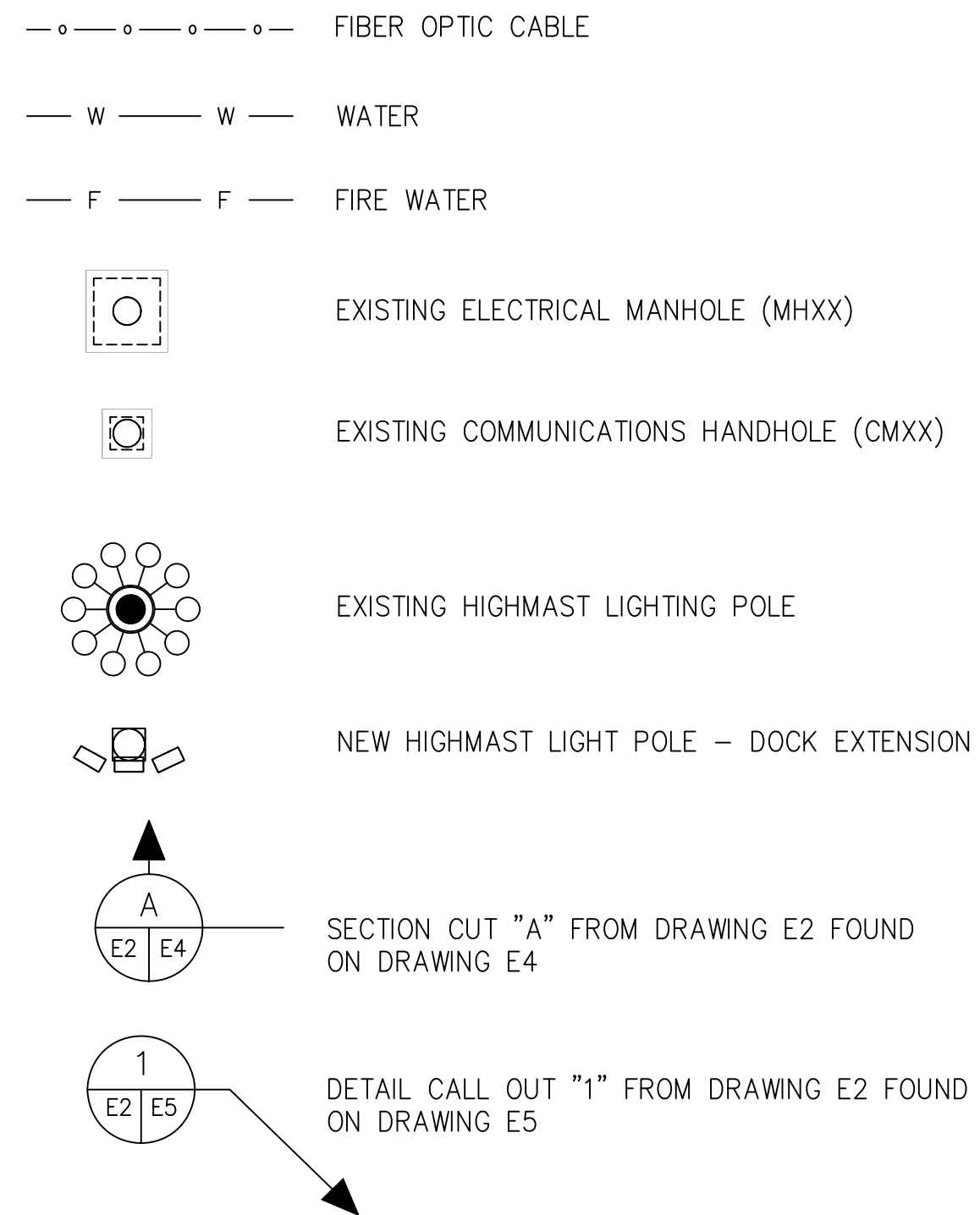
THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

DRAWN: RST CK'D: HAC APPD: RSG DATE: 7/20/18 SCALE: 3/32"=1'-0"

GENERAL NOTES:

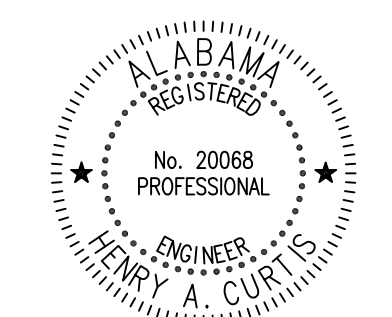
- ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA, NEMA, ANSI STANDARDS, NATIONAL ELECTRICAL SAFETY CODE AND RULES/REGULATIONS OUTLINED IN ANY FEDERAL, STATE OR LOCAL ORDINANCE AND CODES.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PERMITS AND INSPECTIONS AS REQUIRED BY FEDERAL, STATE OR LOCAL ORDINANCES. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER REQUIRED FOR CONSTRUCTION PURPOSES.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL EQUIPMENT WITH ALL OTHER CONTRACTORS (CIVIL/STRUCTURAL/MECHANICAL) PRIOR TO COMMENCEMENT OF PROJECT AND DURING ALL PHASES OF CONSTRUCTION.
- EQUIPMENT INSTALLATION SHALL COMPLY WITH WORKING CLEARANCES AND DEDICATED EQUIPMENT SPACE REQUIREMENTS DEFINED IN THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- EXISTING AS-BUILT DRAWINGS ARE PROVIDED FOR GENERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL REFERENCED EXISTING AS-BUILT INFORMATION ASSOCIATED WITH THIS INSTALLATION PRIOR TO PROJECT BID AND EXECUTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES WITH PREVIOUS AS-BUILT DRAWINGS TO THE OWNER'S REPRESENTATIVE.
- CAUTION:** UNCHARTED AND/OR UNDOCUMENTED OBSTRUCTIONS MAY EXIST. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ANY POSSIBLE UNDERGROUND UTILITIES THAT ARE NOT SHOWN ON THE CONTRACT DOCUMENTS. THE UNDERGROUND UTILITIES THAT ARE SHOWN ON THE CONTRACT DOCUMENTS ARE SHOWN AT APPROXIMATE LOCATIONS ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATIONS. THE CONTRACTOR SHALL STOP ALL WORK IF ANY EXISTING UNDERGROUND UTILITY THAT WAS NOT PREVIOUSLY IDENTIFIED IS DISCOVERED DURING EXCAVATION UNTIL APPROVED BY THE ON-SITE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE TO PROCEED.
- ALL NECESSARY FIELD CHANGES TO DRAWINGS SHALL BE RECORDED AND BROUGHT TO OWNER'S REPRESENTATIVE'S ATTENTION. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL RETURN ONE SET OF PRINTS WITH ALL FIELD CHANGES INDICATED ON THEM.
- ALL DUCT BANK CONDUIT SHALL BE SCH. 80 PVC. ALL OTHER CONDUIT SHALL BE PVC COATED RIGID GALVANIZED STEEL WITH CONDUIT EXPANSION FITTINGS EVERY 100 FEET (MIN) IN STRAIGHT RUNS OF CONDUIT. ALL CONDUIT BENDS SHALL BE FACTORY LONG RADIUS ELBOWS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT FITTINGS, DRAINS, BREATHERS, ETC, NOT SHOWN BUT REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION CONSISTENT WITH GOOD ENGINEERING PRACTICE AND THE REQUIREMENTS DEFINED IN THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- ALL CONDUIT FITTINGS AND JUNCTION BOXES SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS WITH THE COVERED OPENING ORIENTED FOR MAXIMUM ACCESSIBILITY.
- INSTALL AT LEAST ONE PULL FITTING IN EVERY 300 FEET OF A CONDUIT RUN. NO MORE THAN THREE (3) 90 DEGREE CONDUIT BENDS SHALL BE ALLOWED BETWEEN PULL FITTINGS.
- CONDUITS SHOWN ON DRAWINGS REFLECT THE DIAGRAMMATICAL ROUTING. CONDUIT RUNS SHALL BE ROUTED PARALLEL WITH THE STRUCTURE AND SHALL BE INSTALLED TO AVOID INTERFERENCES WITH MECHANICAL EQUIPMENT. EXACT ROUTING OF CONDUITS AND METHODS OF SUPPORT SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- CONTRACTOR SHALL INSTALL ALL CONDUCTORS IN MANHOLES & HANDHOLES ALONG THE WALLS USING THE PROVIDED SUPPORTS. CONDUCTORS SHALL ALWAYS TAKE THE LONGEST ROUTE AROUND THE MANHOLES & HANDHOLES TO ALLOW SLACK FOR FUTURE.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH LOCAL REGULATIONS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- ALL ENCLOSURES HOUSING ELECTRICAL EQUIPMENT AND/OR CONDUCTORS SHALL BE GROUNDED TO THE NEAREST GROUNDED STEEL STRUCTURE OR GROUND GRID CONDUCTOR WITH A #2 AWG INSULATED COPPER GROUND CONDUCTOR.
- UNLESS OTHERWISE NOTED, ALL SINGLE CONDUCTORS SHALL BE TYPE XHHW, 600V, 75°C INSULATED COPPER. SIZE # 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID CABLES AND # 8 AWG & LARGER CONDUCTORS SHALL BE STRANDED CABLES.
- ALL ELECTRICAL CIRCUITS SHALL INCLUDE A SEPARATE GREEN, XHHW COPPER EQUIPMENT GROUNDING CONDUCTOR, SIZED PER THE REQUIREMENTS DEFINED IN THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), TO GROUND THE ELECTRICAL EQUIPMENT TO THE SOURCE.
- LABELS AND TAGS FOR WIRING SHALL CARRY A REVERSE TAGGING IDENTIFICATION TO INDICATE THE EQUIPMENT, DEVICE, TERMINAL BLOCK, AND TERMINAL NUMBER ON THE OPPOSITE END. REFERENCE ANSI/TIA STANDARD 606-B FOR GENERIC LABELING PRACTICES THAT APPLIES TO ALL TYPES OF PREMISES.

LEGEND:



ABBREVIATIONS:

- HHXX ELECTRICAL/COMMUNICATIONS HANDHOLE W/ID NUMBER
- HMXX HIGHMAST LIGHT POLE W/ID NUMBER
- LPXX FLOODLIGHT POLE W/ID NUMBER
- MHXX ELECTRICAL MANHOLE, W/ID NUMBER
- CMXX COMMUNICATIONS HANDHOLE W/ID NUMBER



AS BUILT

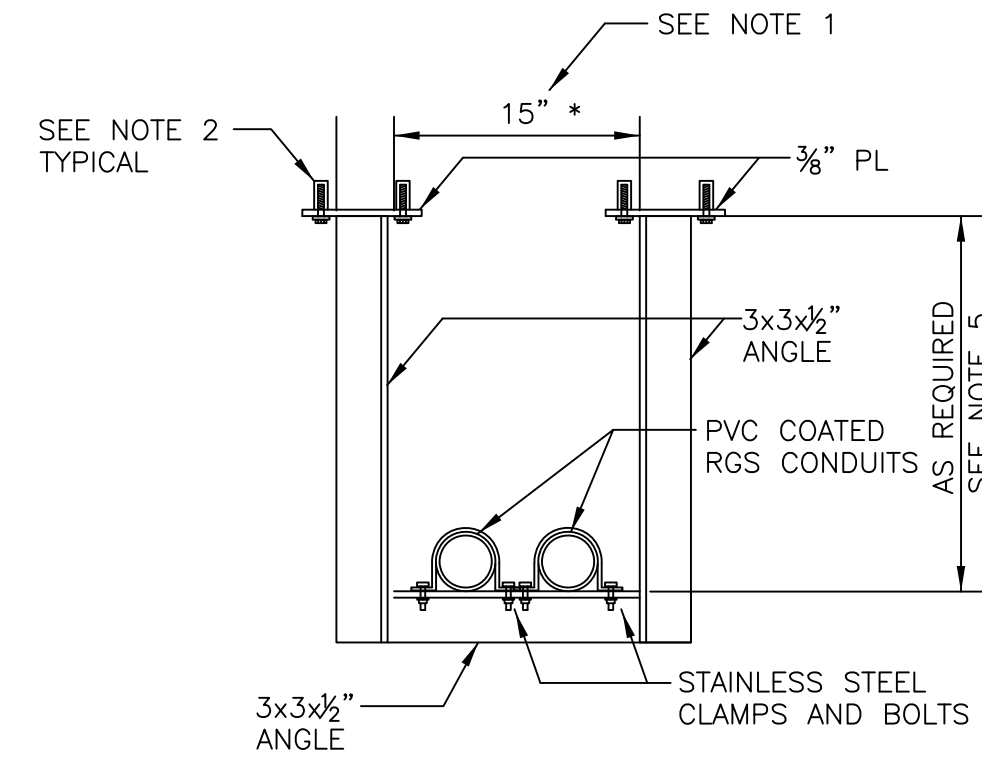
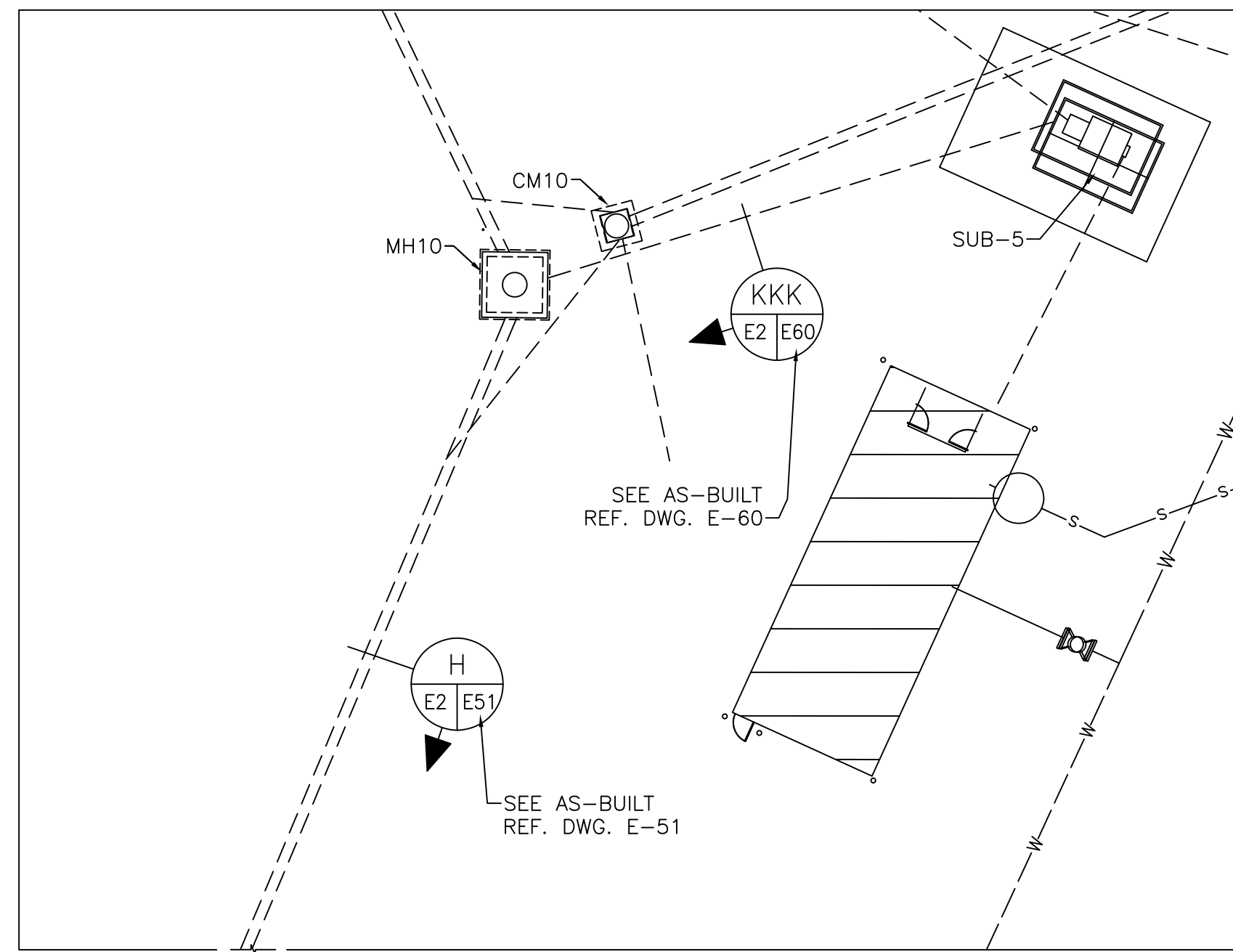
ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA



| | |
|--|------------------|
| ASPA PROJECT NO: 10481 | ASPA DRAWING NO: |
| APMT DOCK EXTENSION PACKAGE ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS | |
| FOR: ALABAMA STATE PORT AUTHORITY | |
| PROJECT NO: 4111 | DWG NO: E1 |
| DATE: 2/15/18 | SCALE: N.T.S. |
| REV: 1 | |

| NOTES | NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|---|-----|-------------------------|-------|------|------|----------|
| DRAWING G2 - PROJECT GENERAL NOTES AND DRAWING INDEX | 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| APMT/GSE AS-BUILT DWGS: E-4, E-10, E-11, E-22, E-51 AND E-60 (DATED 06/20/09) | 0 | ISSUED FOR CONSTRUCTION | WMB | RST | HAC | 9/19/18 |
| REFERENCE DRAWINGS | NO. | | | | | |

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.



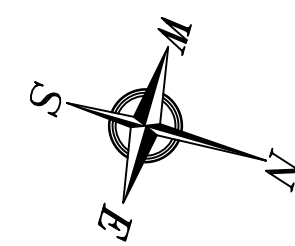
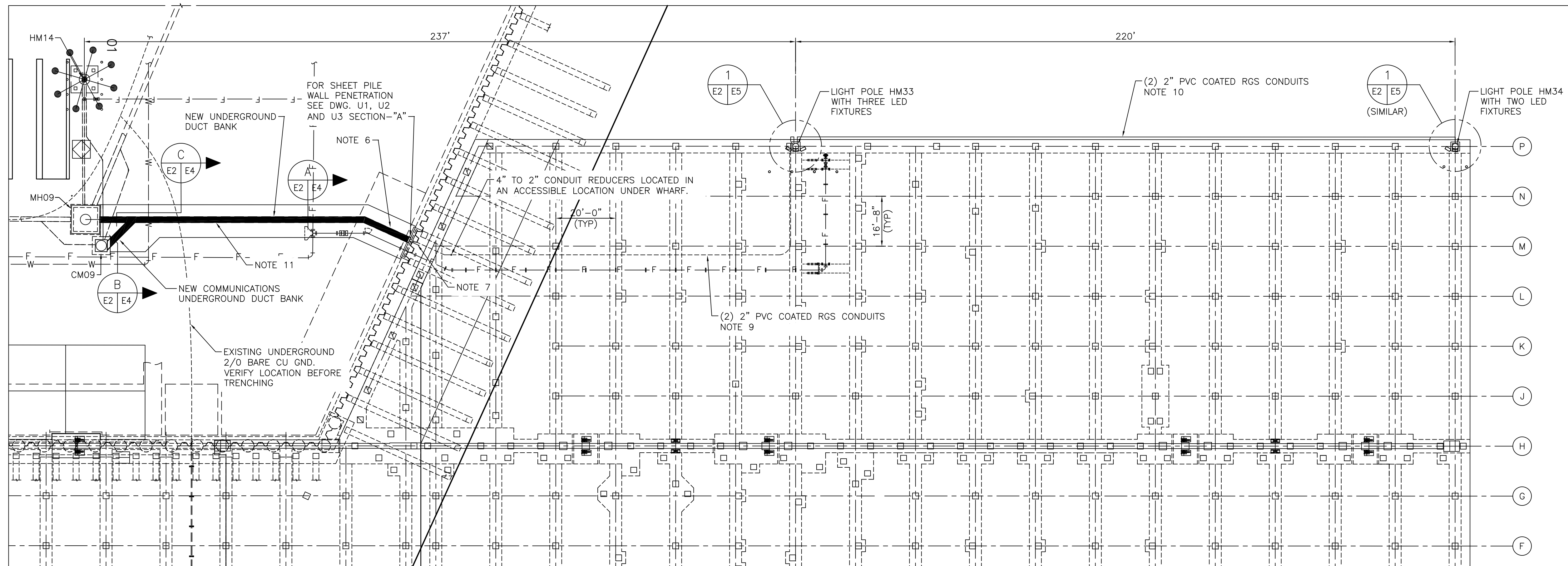
CONDUIT SUPPORT DETAIL 8
NOT TO SCALE

CONDUIT SUPPORT DETAIL NOTES:

1. SPACING OF CONDUIT SUPPORTS, WIDTH, AND ATTACHMENT SHALL BE OPTIMIZED AS REQUIRED WITH ENGINEERS WRITTEN APPROVAL PER UNDER DOCK SYSTEM CHOSEN BY THE CONTRACTOR.
2. CONDUIT SUPPORTS SHALL BE ATTACHED TO BOTTOM OF DOCK WITH HILTI EPOXY ANCHORS OR PREAPPROVED EQUAL WITH MINIMUM EMBEDMENT IN CONCRETE OF 6".
3. ANGLE IRON SUPPORTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
4. ALL BOLTS, CLAMPS, AND BRACKETS SHALL BE FABRICATED FROM TYPE 304 STAINLESS STEEL.
5. CONDUITS SHALL BE INSTALLED AS CLOSE TO THE BOTTOM OF THE DOCK STRUCTURE AS POSSIBLE AND BE SLOPED TOWARDS THE LANDSIDE OF THE DOCK TO INSURE PROPER DRAINAGE.

NOTES:

1. SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
2. SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX.
3. FOR ELECTRICAL INSTALLATION ASSOCIATED WITH HM33 & HM34, REFERENCE THE LIGHTING RISER DIAGRAM ON DWG. E7.
4. ALL CONDUITS SHALL BE SEALED WATERTIGHT.
5. FIELD ROUTE CONDUITS IN STRAIGHT LINES AS MUCH AS POSSIBLE. COORDINATE THE CONDUITS INSTALLATION LOCATION WITH CONSTRUCTION MANAGER AND THE CLIENT'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. PVC CONDUITS INSTALLED IN THE DUCT BANK SHALL TRANSITION TO PVC COATED RGS CONDUIT PRIOR TO PENETRATING THE SHEET PILE WALL.
7. TWO SPARE 4" CONDUITS INSTALLED IN THE DUCT BANK SHALL EXTEND A MINIMUM OF 24" PAST THE SHEET PILE WALL FOR FUTURE USE. CONTRACTOR SHALL INSTALL A PULL STRING IN THESE SPARE CONDUITS AND CAP THE ENDS FOR FUTURE USE.
8. CONDUIT SUPPORTS SHALL BE INSTALLED AT APPROXIMATELY 8 FEET APART. NO MORE THAN ONE CONDUIT COUPLING SHALL BE INSTALLED BETWEEN SUPPORTS.
9. CONDUITS INSTALLED BENEATH THE DOCK SHALL BE SUPPORTED USING ANGLE IRON SUPPORTS AND SHALL BE SLOPED TOWARDS THE LANDSIDE OF THE DOCK TO INSURE PROPER DRAINAGE. REFERENCE DETAIL 8, THIS DRAWING.
10. CONDUITS INSTALLED OUTSIDE THE DOCK EDGE OF CONCRETE SHALL BE SUPPORTED FROM THE HAND RAIL. ALL BOLTS, CLAMPS, AND BRACKETS SHALL BE FABRICATED FROM TYPE 304 STAINLESS STEEL. COORDINATE THE EXACT SUPPORT METHOD WITH THE HAND RAIL PROVIDED BY OTHERS. CONDUITS SHALL BE SLOPED TOWARDS THE LANDSIDE OF THE DOCK TO INSURE PROPER DRAINAGE.
11. SUFFICIENT SPACING SHALL BE PROVIDED BETWEEN THE DUCT BANK AND ALL EXISTING UTILITY LINES. CONTRACTOR SHALL FIELD VERIFY THE INSTALLATION DEPTH OF ALL EXISTING UTILITY LINES AND NOTIFY THE ENGINEER IF THE SPECIFIED DUCT BANK DEPTH/DESIGN WILL HAVE TO BE ALTERED TO AVOID INTERFERENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL REQUIRED INSTALLATION MODIFICATIONS.



POWER PLAN
1"=20'-0"



AS BUILT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA



ASPA PROJECT NO: 10481 ASPA DRAWING NO:

APMT DOCK EXTENSION PACKAGE

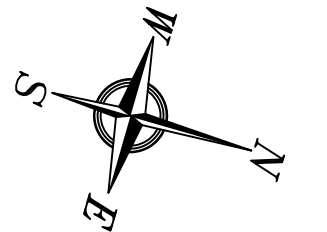
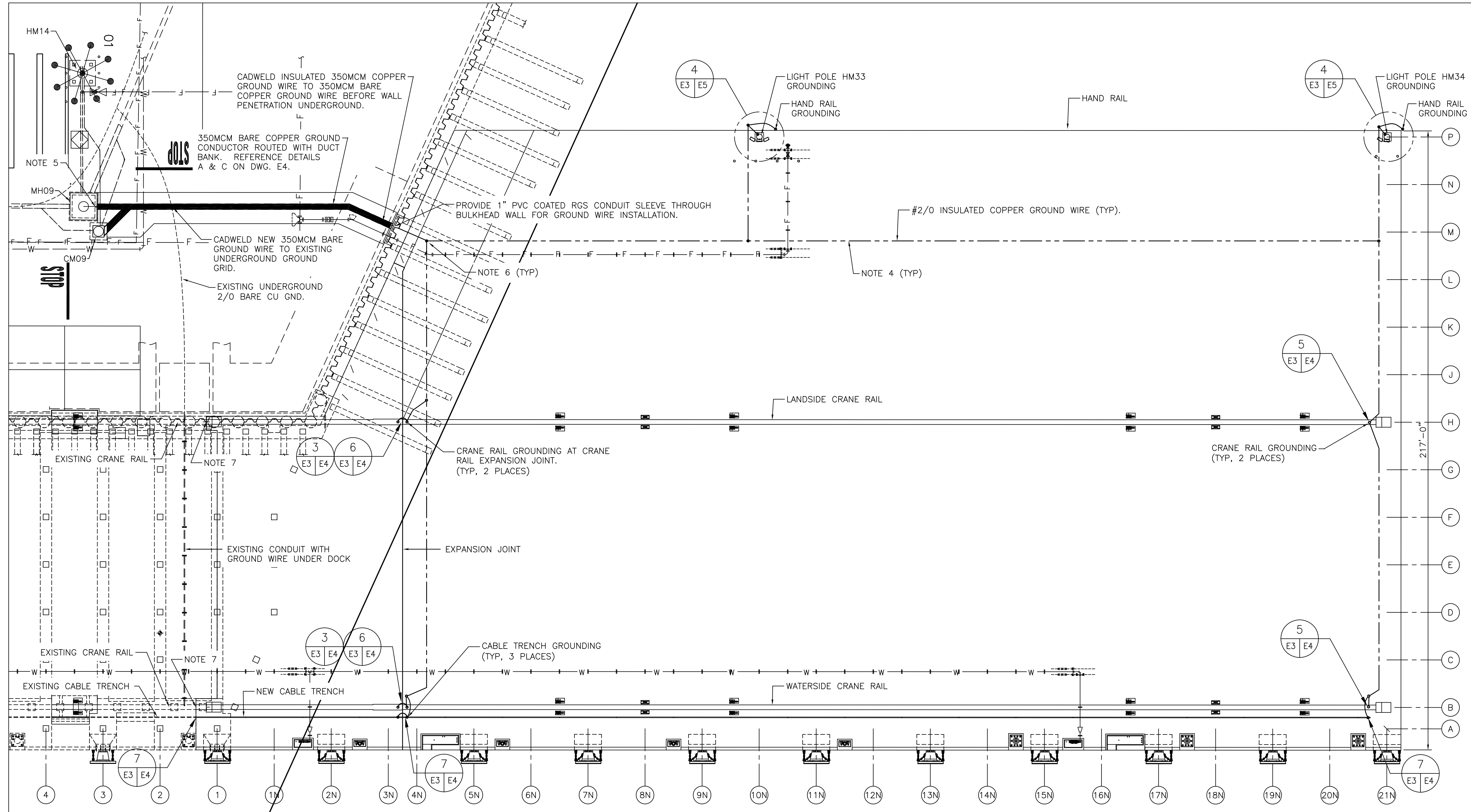
POWER PLAN

FOR: ALABAMA STATE PORT AUTHORITY

| NOTES | NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|--|-----|-------------------------|-------|------|------|----------|
| DWG E7 LIGHTING RISER DIAGRAM AND FIBER OPTIC WIRING DIAGRAM | 1 | AS-BUILT | WMB | HAC | RSG | 02/28/20 |
| APMT/GSE AS-BUILT DWGS: E-10, E-11, E-22, E-51 & E-60 (DATED 06/20/09) | 0 | ISSUED FOR CONSTRUCTION | WMB | HAC | RSG | 9/19/18 |
| REFERENCE DRAWINGS | NO. | | | | | |

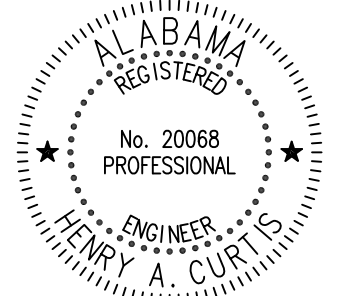
THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

PROJECT NO: 4111 DWG NO: E2 REV: 1



GROUNDING PLAN
1"=20'-0"

- NOTES:**
- SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
 - SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX.
 - THE GROUNDING SYSTEM INSTALLED UNDER THIS CONTRACT IS INTENDED TO BE BONDED TO THE EXISTING FACILITY GROUNDING SYSTEM. THE INTEGRITY OF THE EXISTING FACILITY GROUNDING SYSTEM INDICATED ON THESE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF THE INTEGRITY OF THE EXISTING FACILITY GROUNDING SYSTEM IS QUESTIONABLE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY AND INCLUDE RECOMMENDATIONS FOR ADDRESSING THE INTEGRITY ISSUES.
 - GROUND CONDUCTOR SHALL BE FIRMLY SECURED TO THE UNDERSIDE OF THE DOCK WITH STAINLESS STEEL FASTENERS ON 24" CENTERS (MAX). SUFFICIENT SLACK SHALL BE PROVIDED AT EACH DOCK EXPANSION JOINT. THE GROUND CONDUCTOR SHALL NOT BE 'LOOSE' AT ANY LOCATION AND SHALL NOT BE ALLOWED TO SPAN BETWEEN CONCRETE BEAMS UNSECURED.
 - PROVIDE A 1" SCHEDULE 80 PVC CONDUIT SLEEVE THROUGH THE MANHOLE WALL FOR THE GROUND WIRE PENETRATION. BOND THE GROUND WIRE TO THE EXISTING GROUND ROD IN MH09.
 - ALL GROUND WIRE CONNECTIONS AND SPLICES MADE BELOW THE DOCK SHALL BE CADWELD EXOTHERMIC CONNECTIONS.
 - BOND THE NEW CRANE RAIL TO THE EXISTING CRANE RAIL WITH A #2/0 BARE COPPER BONDING JUMPER AND BURNDY CAT NO. QA26-B CONNECTORS WELDED TO THE RAILS.
 - THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD AND THE CLIENT A RED-LINED SET OF DRAWINGS INDICATING THE INSTALLATION LOCATION OF ALL GROUNDING COMPONENTS AT THE COMPLETION OF THE PROJECT.



AS BUILT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA



ASPA PROJECT NO: 10481 ASPA DRAWING NO:

APMT DOCK EXTENSION PACKAGE

GROUNDING PLAN

FOR: ALABAMA STATE PORT AUTHORITY

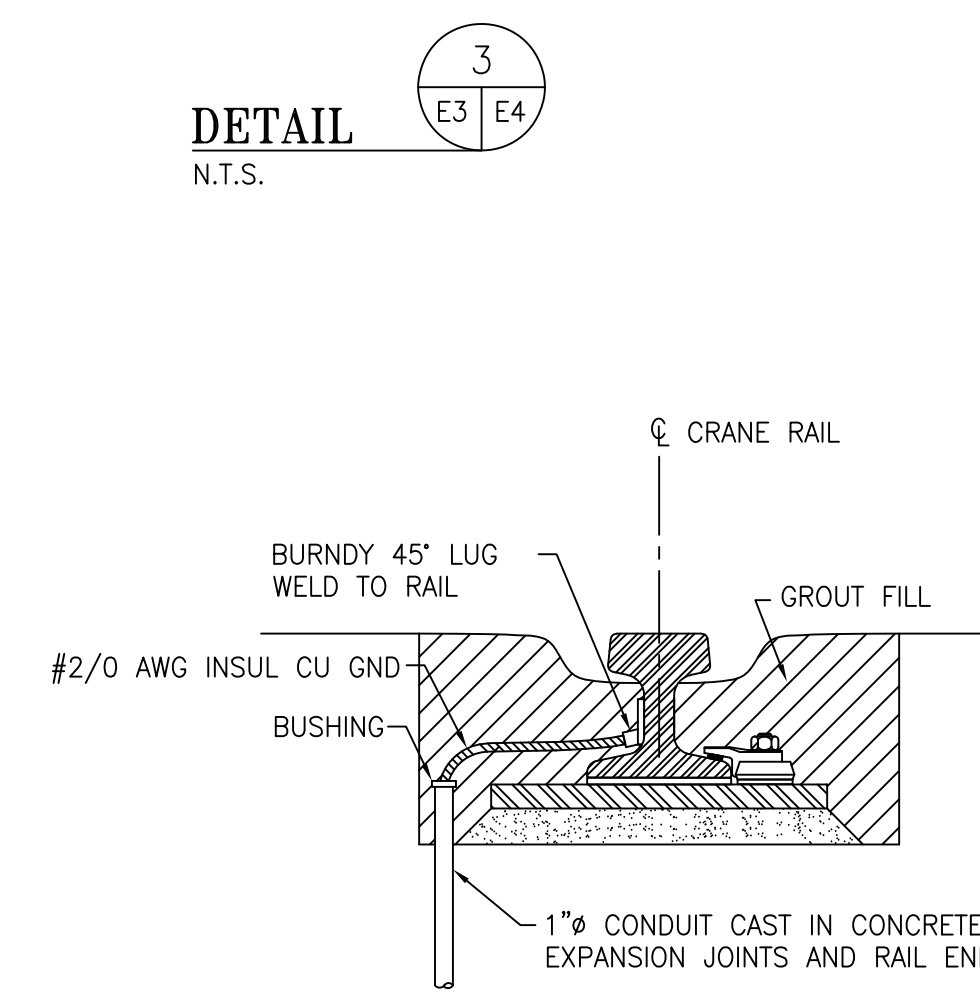
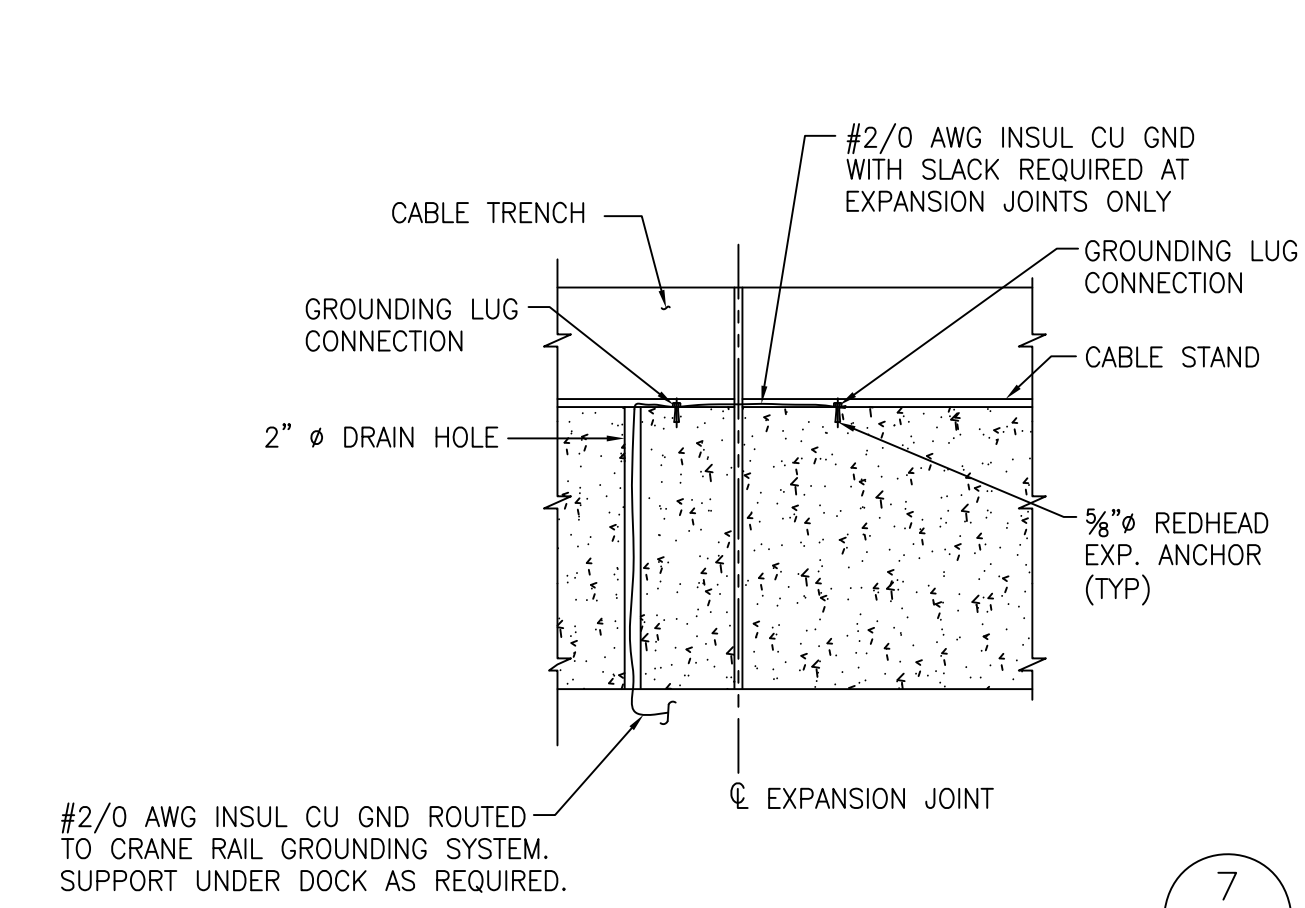
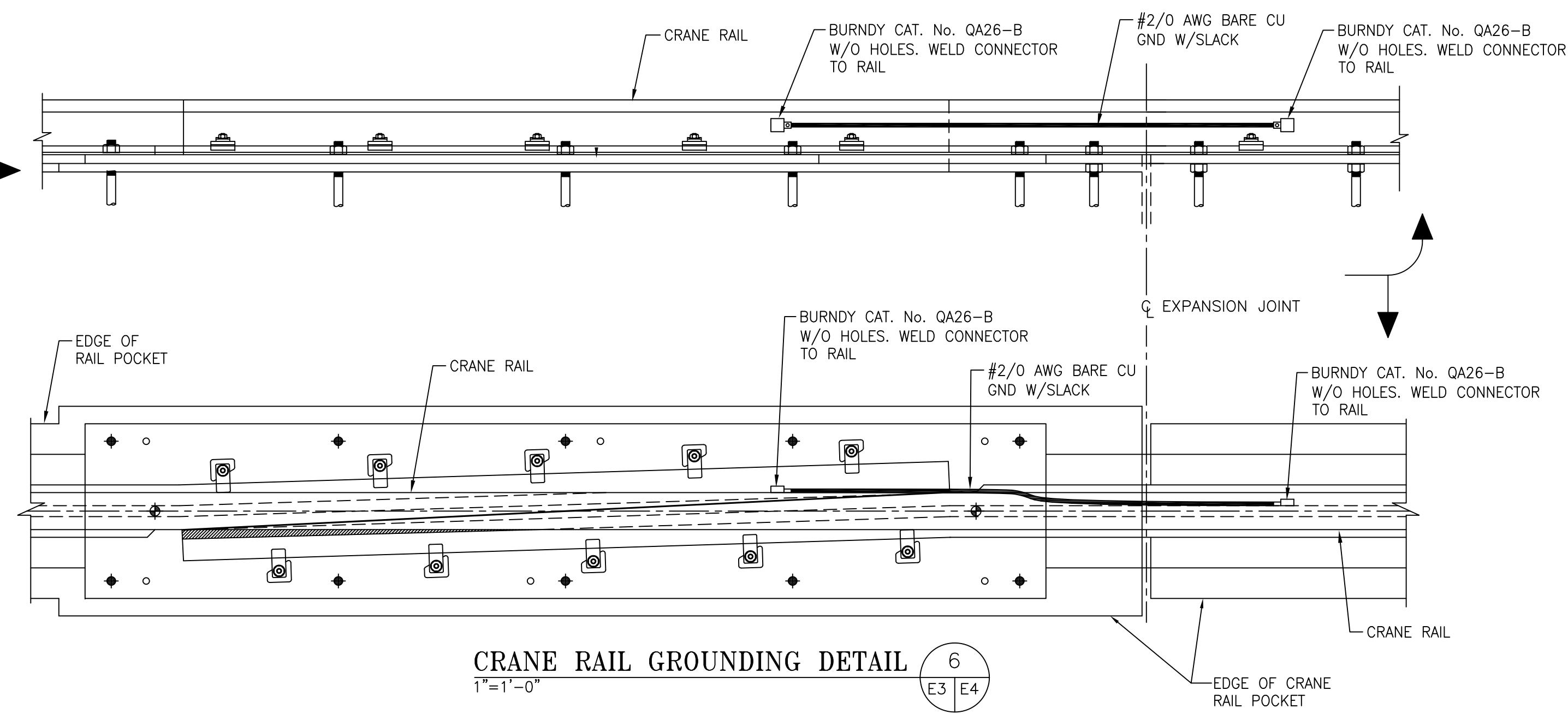
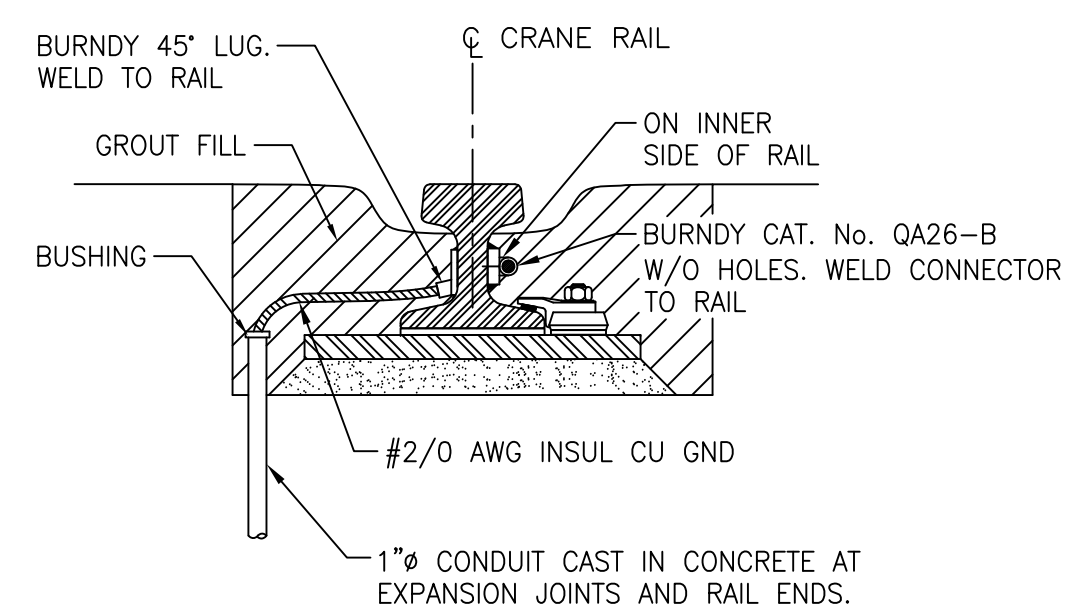
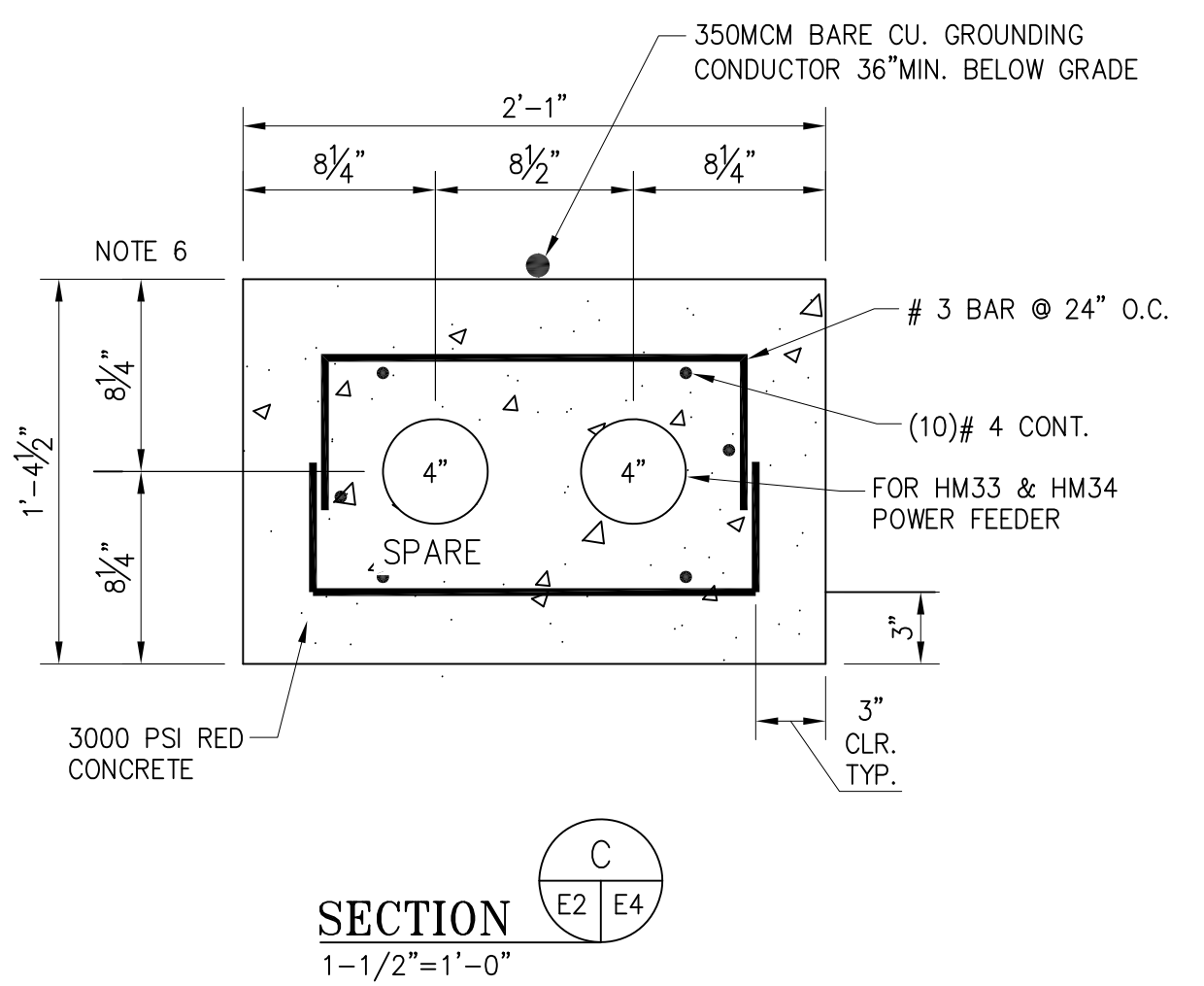
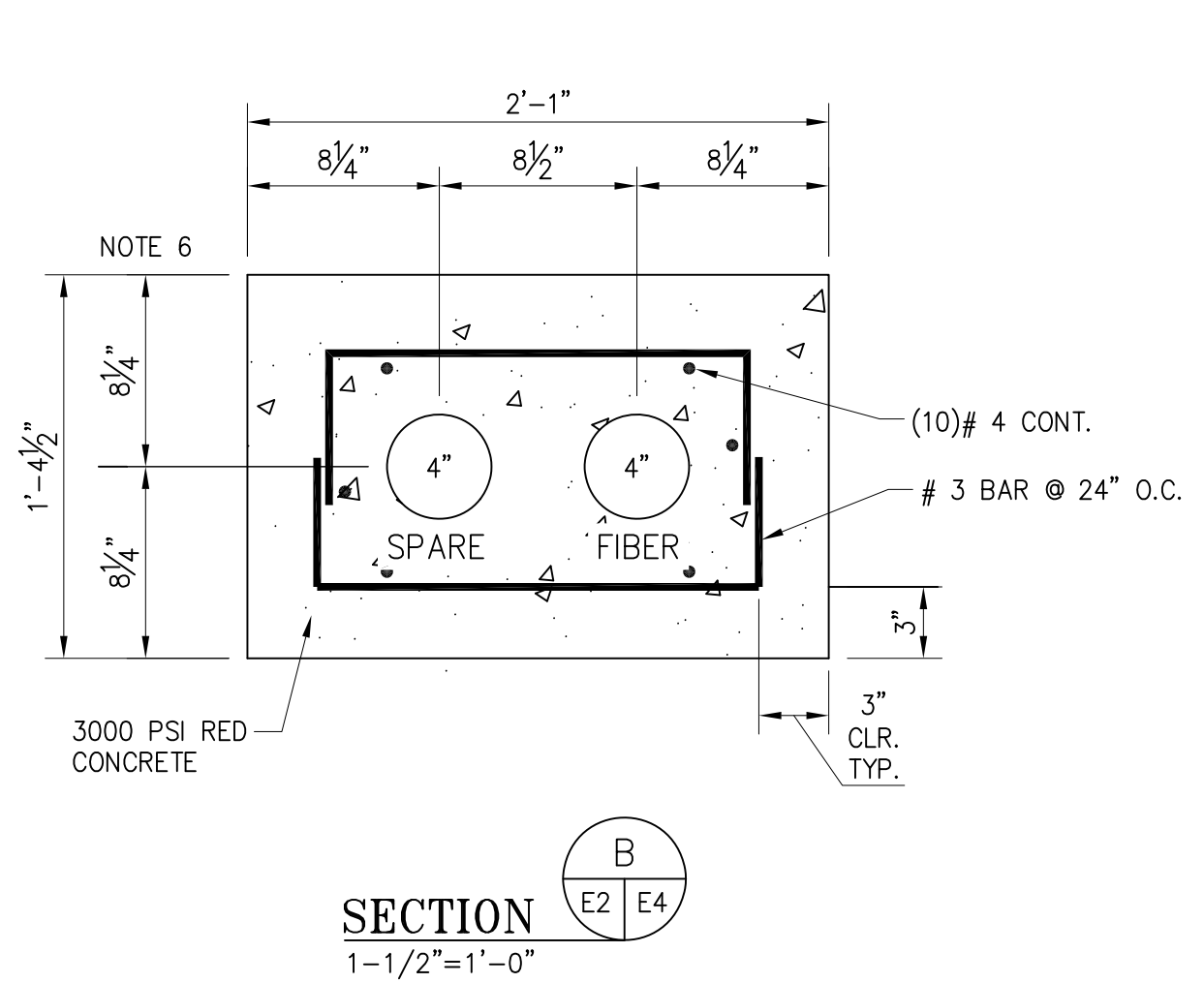
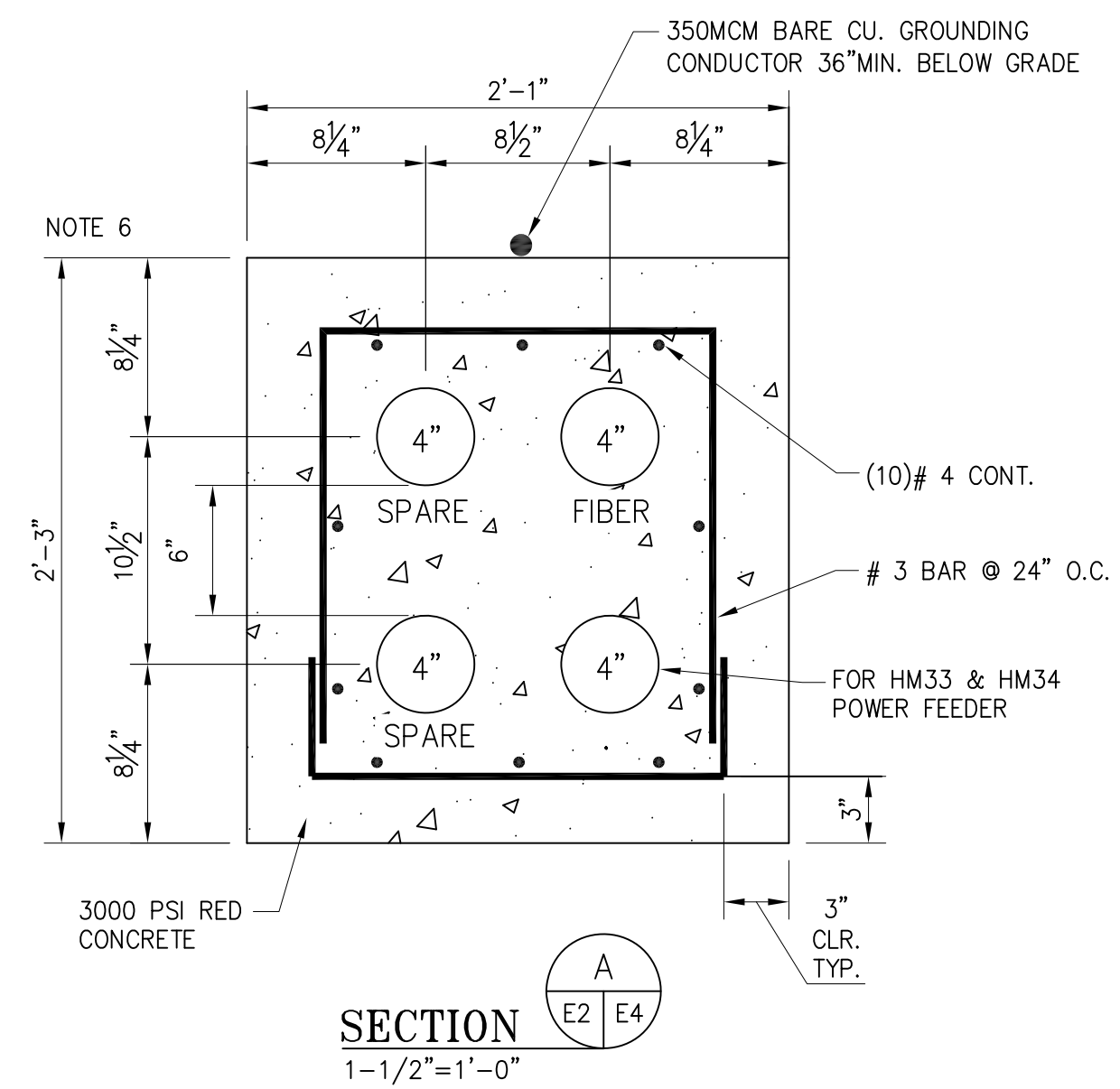
| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | WMB | RST | HAC | 02/28/20 |
| 0 | ISSUED FOR CONSTRUCTION | WMB | RST | HAC | 9/19/18 |
| | REFERENCE DRAWINGS | | | | |

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.

PROJECT NO: 4111 DWG NO: E3 REV: 1

NOTES:

- SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
- SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX.
- CAUTION:** UNCHARTED AND/OR UNDOCUMENTED OBSTRUCTIONS MAY EXIST. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ANY POSSIBLE UNDERGROUND UTILITIES THAT ARE NOT SHOWN ON THE CONTRACT DRAWINGS.
- ALL DUCT BANKS SHALL USE 3000 PSI RED DYE CONCRETE.
- PLASTIC DUCT SPACERS SHALL BE USED TO MAINTAIN DISTANCE BETWEEN CONDUITS THAT HAVE BEEN CALLED OUT ON THIS DWG. THESE SPACERS SHALL BE PLACED PER THE MANUFACTURER'S INSTRUCTIONS, BUT NOT LESS THAN 2 SPACER ASSEMBLIES PER 10 FEET OF CONDUIT ASSEMBLY.
- DUCT BANKS SHALL BE A MINIMUM OF 36 INCHES BELOW FINISHED GRADE. DUCT BANKS SHALL BE SLOPED BACK TO THE MANHOLES TO INSURE PROPER DRAINAGE OF CONDUITS. DEPTHS TO THE TOP OF DUCT BANKS GREATER THAN 4 FEET FOR DISTANCES OF SUBSTANTIAL LENGTH SHALL BE APPROVED BY THE CLIENT'S ON-SITE REPRESENTATIVE PRIOR TO INSTALLATION.
- UNLESS OTHERWISE DETAILED, ALL GROUND WIRE SHALL UTILIZE PVC COATED RGS CONDUIT WHERE EXPOSED OR PASSING THROUGH CONCRETE.
- CONDUIT PENETRATIONS THROUGH THE DOCK FOR GROUND CABLE TO CRANE RAIL SHALL NOT EXCEED THE BASE ELEVATION OF THE CRANE RAIL.
- ALL GROUNDING COMPONENTS SHALL BE SUITABLE FOR GROUT ENCASEMENT, AS REQUIRED.
- THE ENTIRE CRANE RAIL GROUNDING SYSTEM MUST BE INSPECTED AND DOCUMENTED BY THE SITE'S CONSTRUCTION MANAGER, THE CLIENT'S REPRESENTATIVE, AND THE PERMITTING ORGANIZATION (AS REQUIRED) PRIOR TO COVERING.
- FIELD QUALITY CONTROL:** PERFORM THE FOLLOWING TEST/INSPECTIONS AND PREPARE REPORTS:
 - VERIFY COMPLIANCE WITH ALL APPLICABLE ELECTRICAL CODES AND STANDARDS.
 - PERFORM TEST AND/OR INSPECTIONS AS REQUIRED BY THE RULES/REGULATIONS OUTLINED IN ANY FEDERAL, STATE, OR LOCAL ORDINANCE/CODES.
 - AFTER INSTALLING THE ENTIRE GROUNDING SYSTEM, PERFORM A GROUND RESISTANCE TEST AT EACH CRANE RAIL & LIGHT POLE CONNECTIONS AND PREPARE A TEST REPORT RECORDING ALL RESULTS.



CABLE TRENCH GROUNDING DETAIL
1/2"=1'-0"

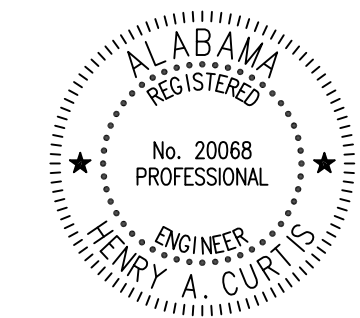
CABLE TRENCH GROUNDING NOTES:

- AT THE EXPANSION JOINTS OF THE DOCK EXTENSION, THE CONTRACTOR SHALL REMOVE THE CABLE TRENCH CABLE STAND AND INSTALL A GROUNDING JUMPER ACROSS THE EXPANSION JOINT. THE GROUNDING JUMPER SHALL THEN BE CONNECTED TO THE CRANE RAIL GROUNDING SYSTEM UNDER THE DOCK USING THE NEAREST DRAIN HOLE FOR ACCESS TO THE UNDERSIDE OF THE DOCK.
- AT THE NORTH END OF THE DOCK EXTENSION, THE CONTRACTOR SHALL GROUND THE CABLE TRENCH AT THE NEAREST DRAIN HOLE TO THE CRANE RAIL GROUNDING SYSTEM UNDER THE DOCK. THE CONTRACTOR SHALL UTILIZE THE DRAIN HOLE TO ACCESS THE UNDERSIDE OF THE DOCK.
- AT THE SOUTH END OF THE DOCK EXTENSION, THE CONTRACTOR SHALL BOND THE NEW CABLE TRENCH TO THE EXISTING CABLE TRENCH WITH A #2/0 INSULATED COPPER BONDING JUMPER.

TYPICAL CRANE RAIL GROUNDING

DETAIL 5
N.T.S.

AS BUILT



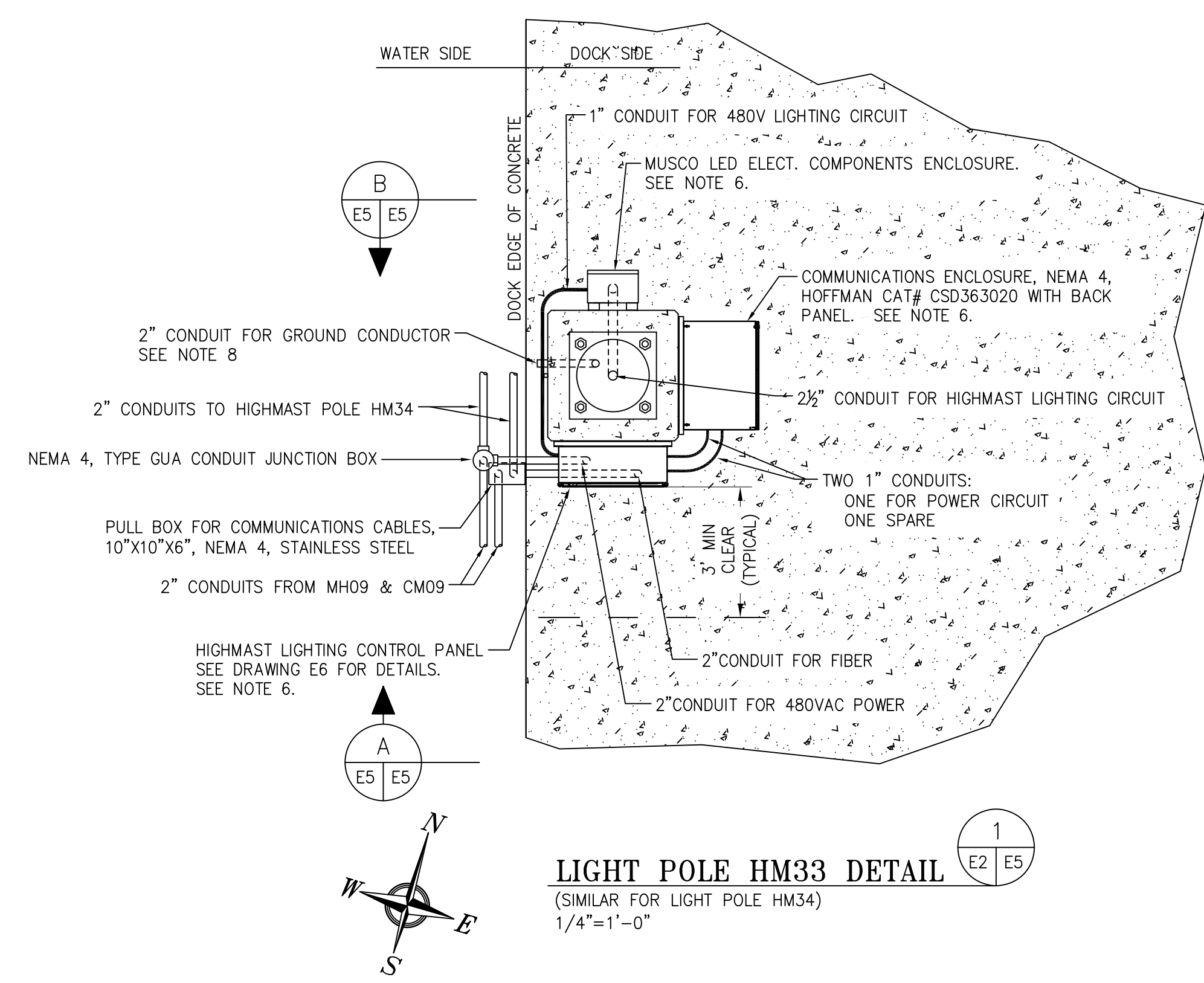
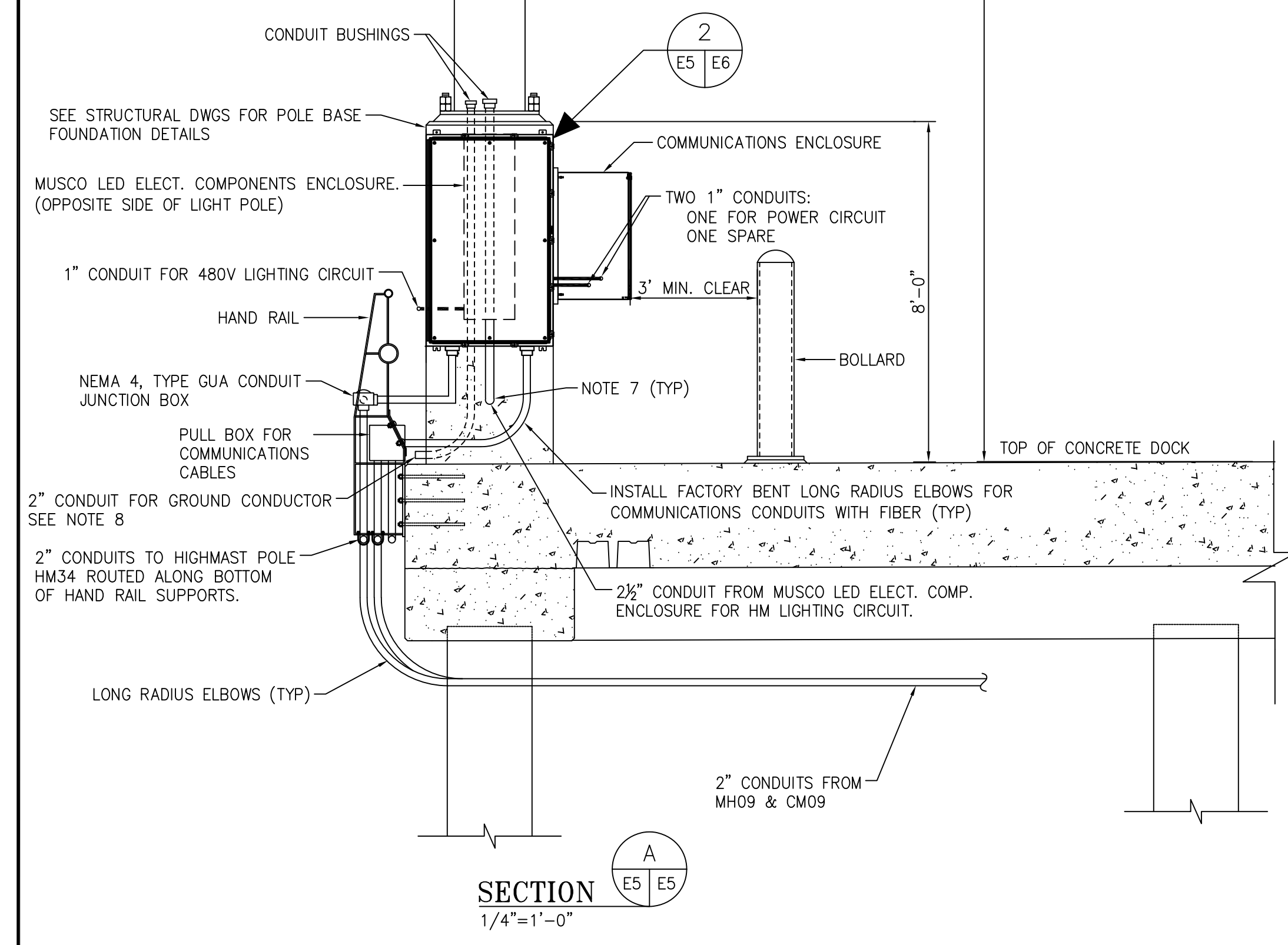
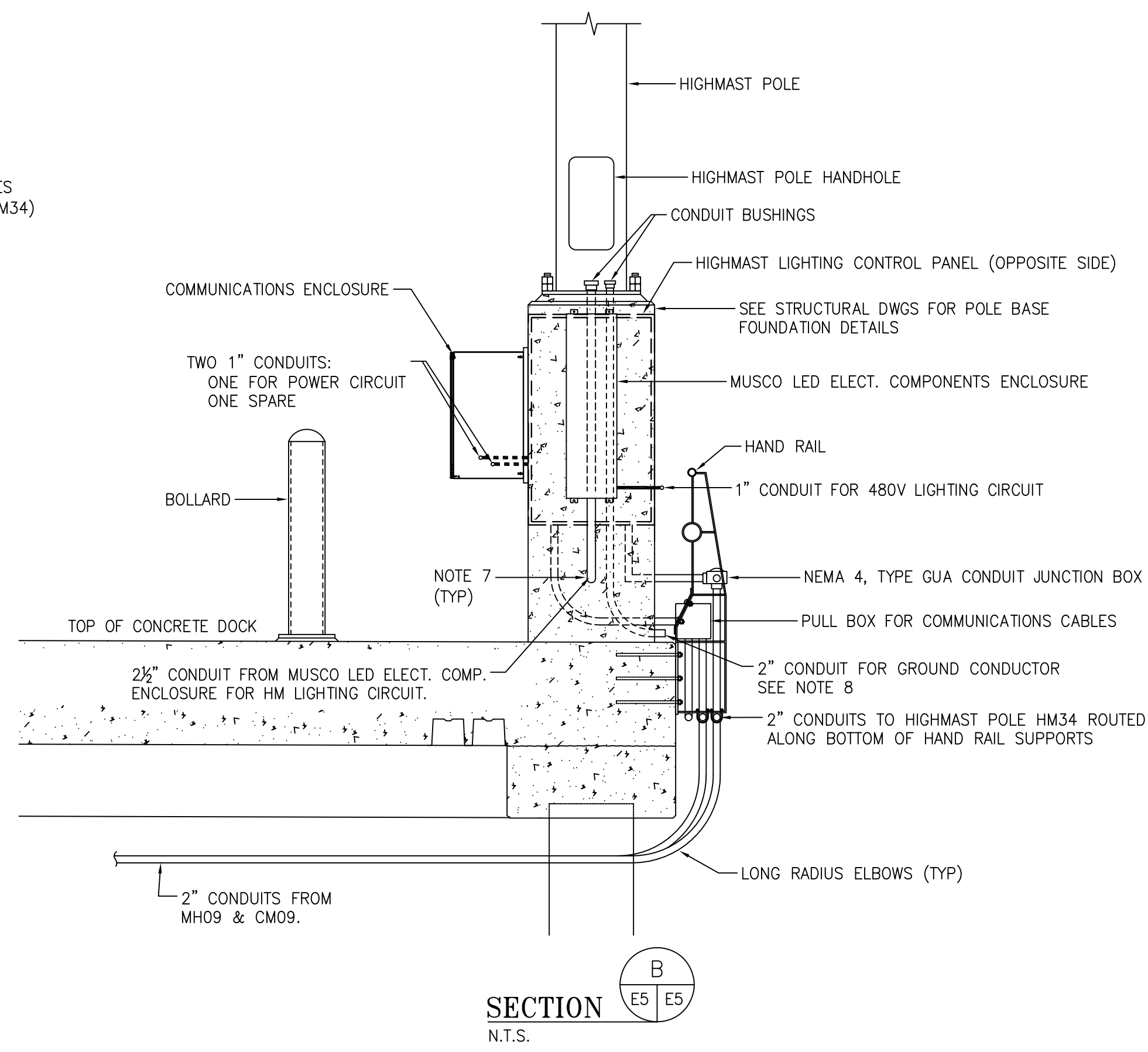
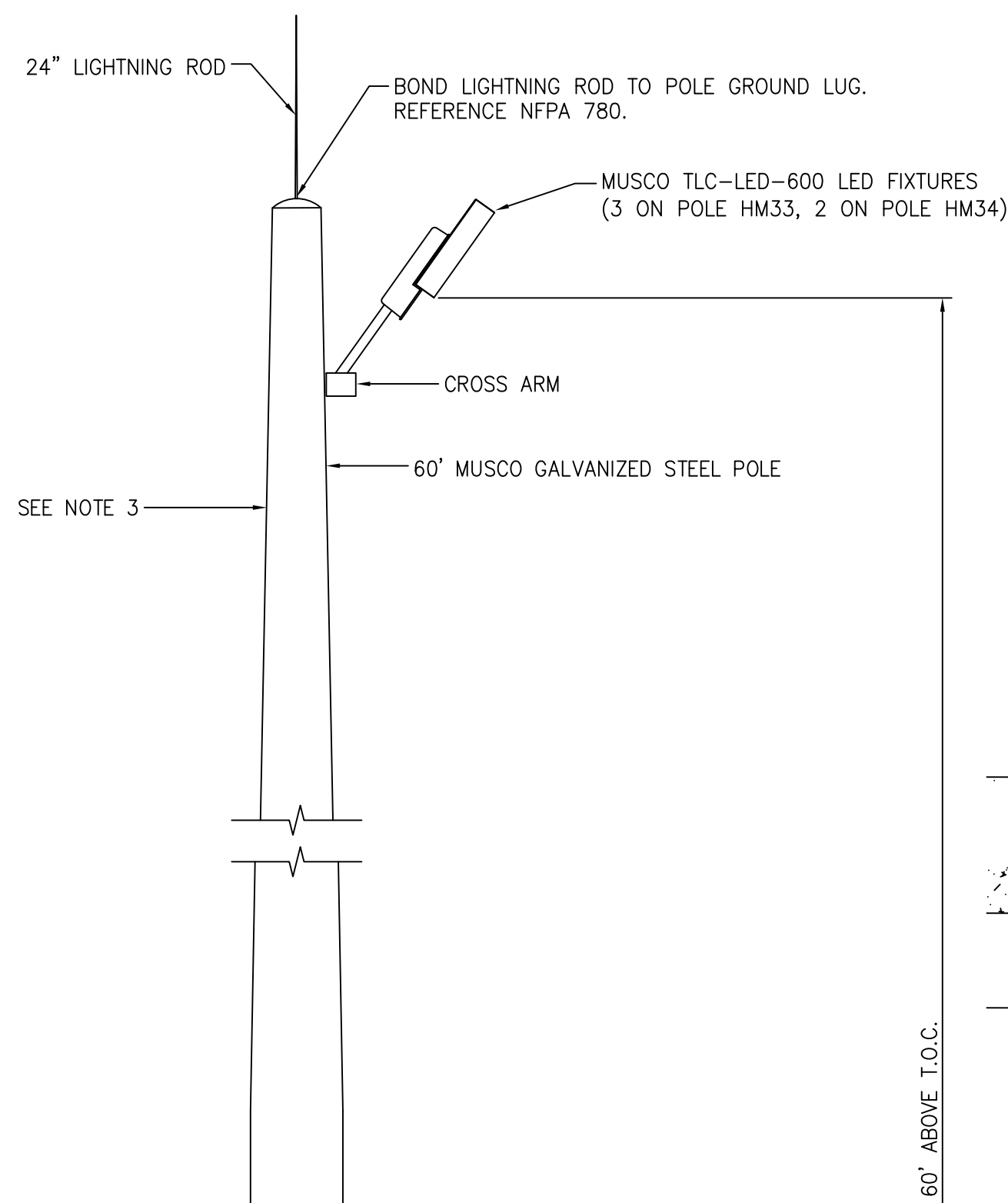
ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA
ASPA PROJECT NO: 10481 | ASPA DRAWING NO:



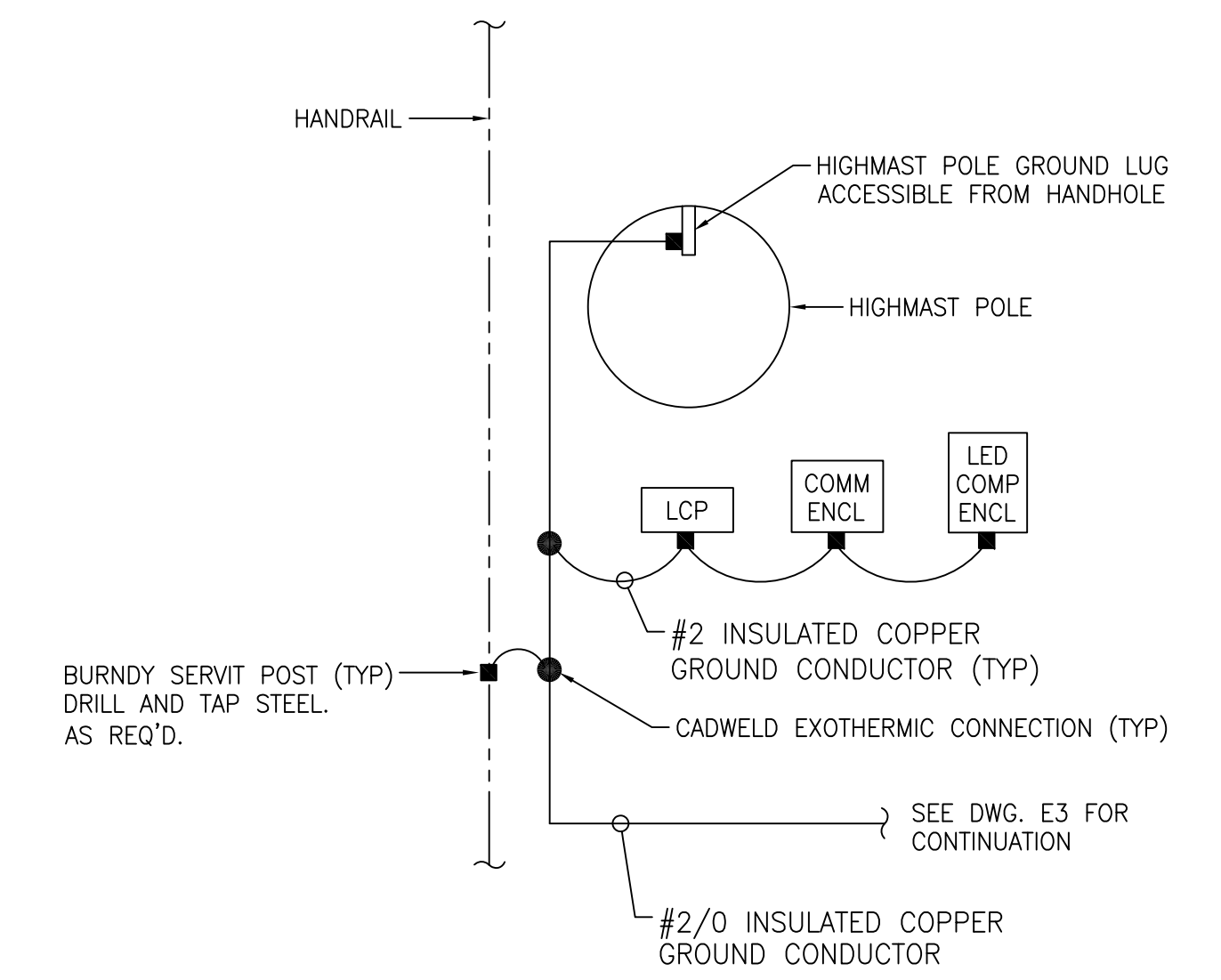
THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

APMT DOCK EXTENSION PACKAGE
SECTIONS AND DETAILS
FOR: ALABAMA STATE PORT AUTHORITY
PROJECT NO: 4111 | DWG NO: E4 | REV: 1

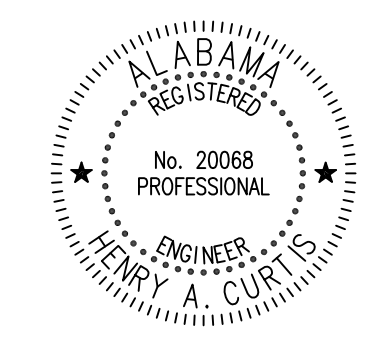
| NO. | REVISION | DATE | DRAWN | CK'D | APPD |
|-----|-------------------------|----------|-------|------|------|
| 1 | AS-BUILT | 02/28/20 | WMB | RST | HAC |
| 0 | ISSUED FOR CONSTRUCTION | 9/19/18 | WMB | RST | HAC |
| | REFERENCE DRAWINGS | | | | |



- NOTES:**
- SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
 - SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX.
 - THE ENTIRE HIGHMAST LIGHTING SYSTEM SHALL BE DESIGNED TO WITHSTANDING 155 MPH WINDS IN ACCORDANCE WITH ASCE 7-10.
 - ALL FUTURE ADJUSTABLE/REMOVABLE COMPONENTS SHALL BE PROVIDED WITH 'ANTI-SEIZE' LUBRICANT. PLASTIC SCREWS AND/OR BUSHINGS WILL NOT BE ACCEPTED.
 - THE HIGHMAST POLE SHALL BE GROUNDED AS INDICATED ON THE ASSOCIATED GROUNDING DRAWINGS AND TO THE SYSTEM GROUND CONDUCTOR.
 - PANELS/ENCLOSURES SHALL BE SECURED TO THE POLE FOUNDATION USING EPOXY ANCHOR BOLTS AND GALVANIZED UNISTRUT, AS REQ'D.
 - COORDINATE ALL CONDUITS STUB-OUT LOCATIONS WITH THE EQUIPMENT PROVIDED PRIOR TO INSTALLATION.
 - CONDUIT SHALL BE SUFFICIENTLY SEALED AFTER INSTALLATION OF THE GROUND CONDUCTOR.



4 HIGHMAST POLE GROUNDING DETAIL
SCALE: NOT TO SCALE



AS BUILT

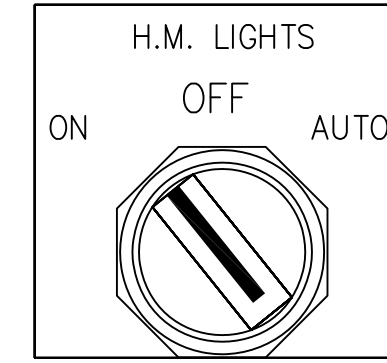
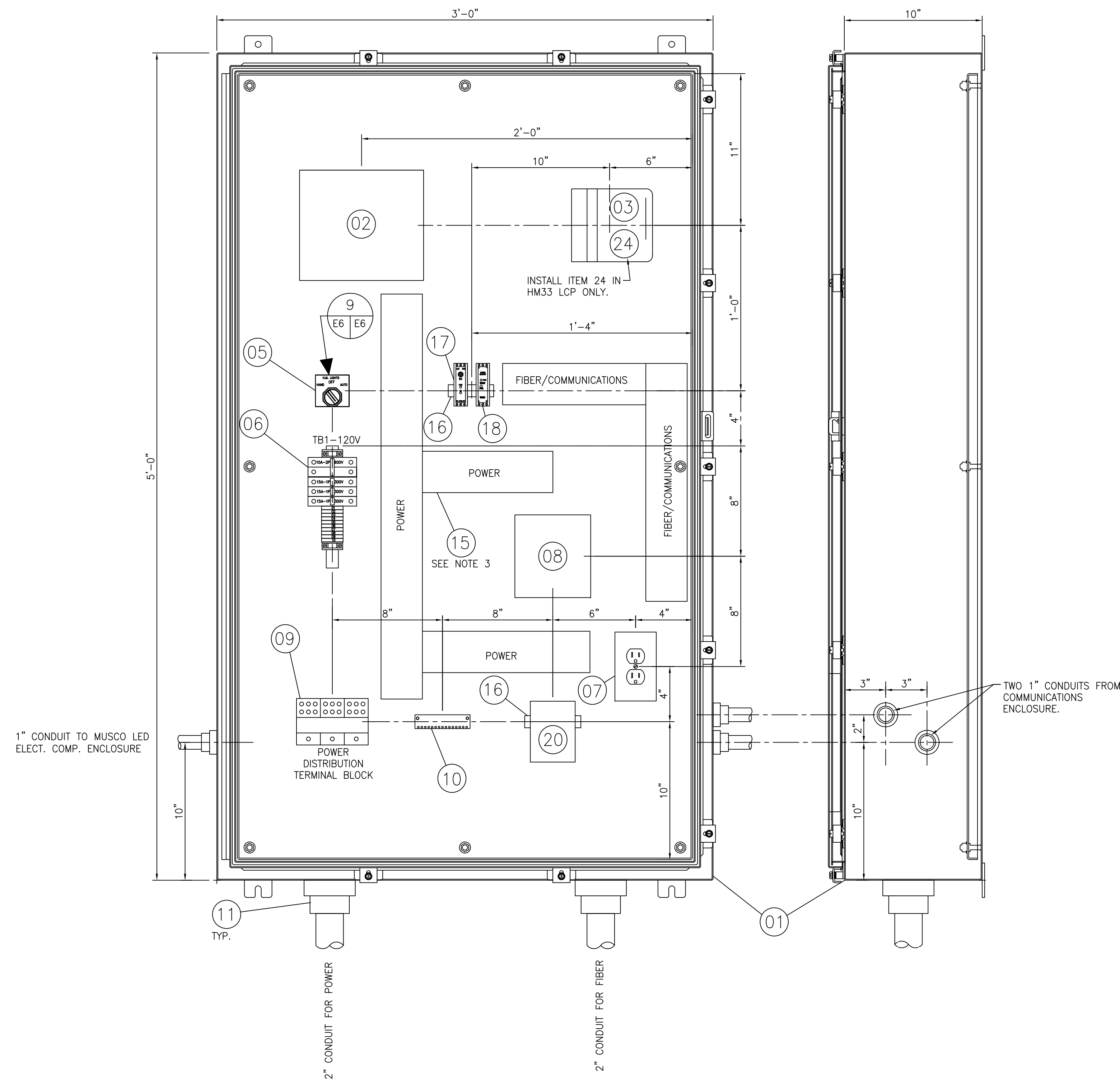
ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA



| | |
|-----------------------------------|------------------|
| ASPA PROJECT NO: 10481 | ASPA DRAWING NO: |
| APMT DOCK EXTENSION PACKAGE | |
| HIGHMAST LIGHT POLE | |
| SECTIONS, DETAILS AND GROUNDING | |
| FOR: ALABAMA STATE PORT AUTHORITY | |
| PROJECT NO: 4111 | DWG NO: E5 |
| REV: 1 | |

| NOTES | NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|--|-----|-------------------------|-------|------|------|----------|
| DWG E8 HIGHMAST LIGHTING CONTROL PANEL WIRING DIAGRAM | 1 | AS-BUILT | WMB | RST | HAC | 02/28/20 |
| DWG E7 LIGHTING RISER DIAGRAM AND FIBER OPTIC WIRING DIAGRAM | 0 | ISSUED FOR CONSTRUCTION | WMB | RST | HAC | 9/19/18 |
| REFERENCE DRAWINGS | NO. | REVISION | DRAWN | CK'D | APPD | DATE |

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.



NOTES:

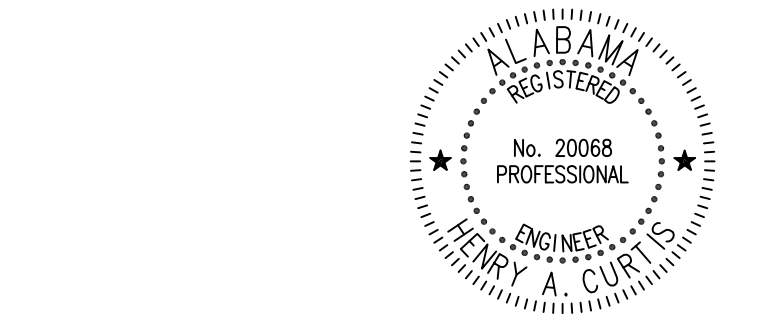
- SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
- SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX.
- PANDUIT OR APPROVED EQUAL PVC WIRING DUCT CABLE MANAGEMENT ORGANIZER SLOTTED WITH SNAP-ON COVERS SIZED FOR THE CABLE RUNS AND CABLE BUNDLES TO BE USED. SECURE TO CONTROL PANEL BACKPLATE WITH STAINLESS STEEL FASTENERS. LABEL "POWER" OR "FIBER/COMMUNICATIONS" AS SHOWN.
- ALL FIBER OPTIC CONNECTIONS AND DEVICES ASSOCIATED WITH THE NEW HIGHMAST LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE A LABEL ON THE EXTERIOR FRONT DOOR OF THIS PANEL WARNING PERSONNEL THAT MULTIPLE POWER SOURCES ARE PRESENT WITHIN THIS PANEL UP TO 480V.
- CONTRACTOR SHALL COORDINATE THE TYPE EQUIPMENT TO BE PROVIDED WITH THE CLIENT'S EXISTING LIGHTING CONTROL SYSTEM AND THE DESIGN ILLUSTRATED.

LIST OF MATERIALS

| MARK | DESCRIPTION |
|------|--|
| 01 | 60"x36"x12" 316 STAINLESS STEEL NEMA 4X ENCLOSURE HOFFMAN MODEL, A60H3612SS6LP. W/STAINLESS STEEL BACKPANEL A60P36SSP. |
| 02 | 3kVA OPEN TYPE TRANSFORMER 480V/120V SOLA, MODEL T3000. |
| 03 | FIBER OPTIC SPLITTER MANUFACTURED BY BLACK BOX. (NOTE 6) |
| 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-SP2D100. (4) 15A-1P CIRCUIT BREAKERS - ALLEN BRADLEY MODEL 1492-CB1H100N. (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 120VAC, GFCI RECEPTACLE FLUSH MOUNTED INSIDE OF ENCLOSURE. 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 TERMINAL BLOCK BUSSMANN, MODEL 16332. |
| 10 | GROUND BAR |
| 11 | GALV. RAIN TIGHT HUB TYPICAL - MATCH CONDUIT TYPE. |
| 12 | (NOT USED) |
| 13 | (NOT USED) |
| 14 | (NOT USED) |
| 15 | 3"x3" PANDUIT WIRING DUCT WITH COVERS, SEE NOTE 3 THIS DRAWING. |
| 16 | 35 MM DIN RAIL, ALLEN BRADLEY CAT. NO. 199-DR1., AS REQUIRED. |
| 17 | FIBER OPTIC RECEIVER. WEED INSTRUMENT FOR-CC-850-MM-ST. |
| 18 | 24V DC POWER SUPPLY. WEED INSTRUMENT PSM-CC. |
| 19 | (NOT USED) |
| 20 | 30A-3P CIRCUIT BREAKER ALLEN BRADLEY MODEL 1492-MC-AA330. |
| 21 | (NOT USED) |
| 22 | (NOT USED) |
| 23 | 1M FIBER OPTIC CABLE. (NOTE 6) |
| 24 | FIBER OPTIC COUPLER/SPLITTER - 1x2 MM 62.5-MICRON COUPLER WITH A 50:50 SPLIT RATIO AT 850nm, MANUFACTURED BY FIBERTRONICS OR APPROVED EQUAL. |

HIGHMAST LIGHTING CONTROL PANEL LAYOUT & DETAILS

AS BUILT



ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

ASPA PROJECT NO: 10481 ASPA DRAWING NO:



APMT DOCK EXTENSION PACKAGE
HIGHMAST LIGHTING CONTROL PANEL
LAYOUT AND FABRICATION DETAILS

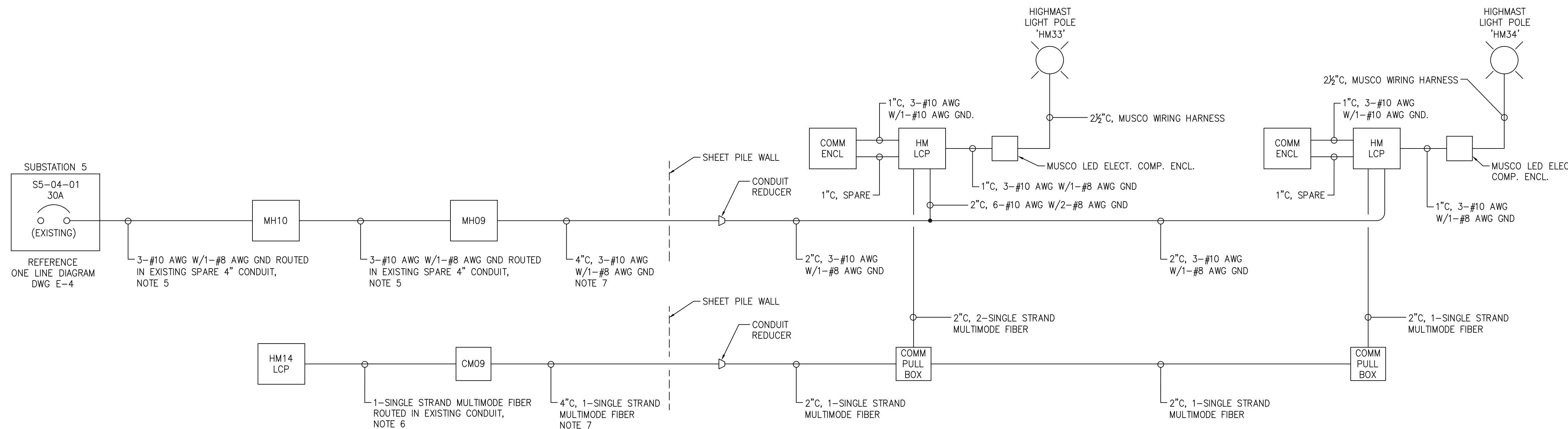
FOR: ALABAMA STATE PORT AUTHORITY

NOTES

| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|--------------------------|-------|------|------|----------|
| 2 | AS-BUILT | WMB | RST | HAC | 02/28/20 |
| 1 | REVISED FOR CONSTRUCTION | WMB | RST | HAC | 5/2/19 |
| 0 | ISSUED FOR CONSTRUCTION | WMB | RST | HAC | 9/19/18 |
| | REFERENCE DRAWINGS | | | | |

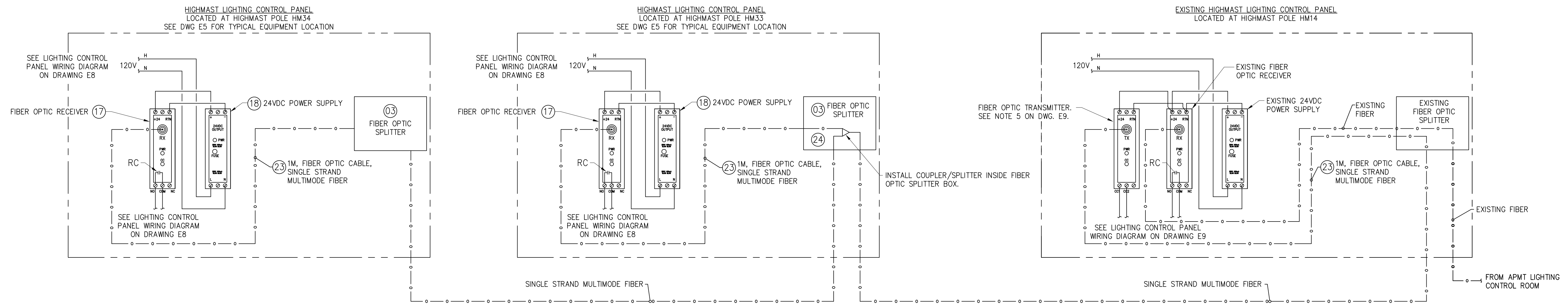
THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

PROJECT NO: 4111 DWG NO: E6 REV: 2

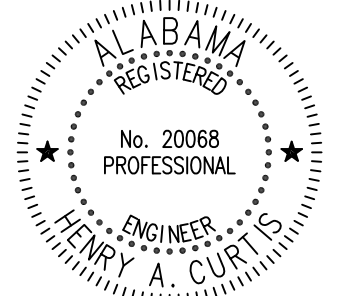


LIGHTING RISER DIAGRAM
SCALE: N.T.S.

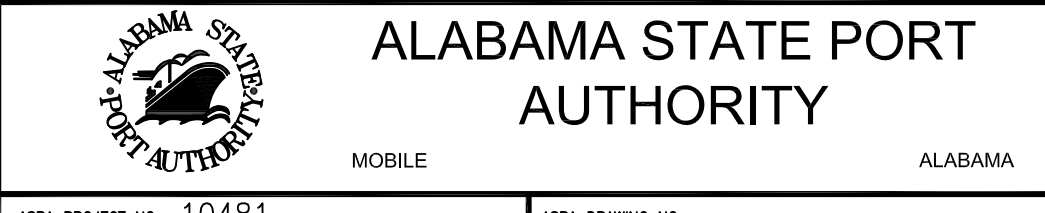
- NOTES:**
- SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
 - SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX.
 - SEE 'LIST OF MATERIALS' ON DWG. E6 FOR DESCRIPTIONS OF ITEMIZED ELECTRICAL COMPONENTS CALLED OUT ON THIS DRAWING.
 - ALL FIBER OPTIC CABLE, DEVICES, AND CONNECTIONS ASSOCIATED WITH THE NEW HIGHMAST LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
 - ELECTRICAL FEEDER SHALL BE ROUTED IN EXISTING SPARE CONDUIT FROM SUBSTATION 5 TO MH10 AND MH09. REFERENCE SECTION DETAIL 'KKK' ON DWG. E60 AND SECTION DETAIL 'H' ON DWG. E51.
 - FIBER OPTIC CABLE SHALL BE ROUTED IN EXISTING COMMUNICATIONS CONDUIT FROM HM14 LIGHTING CONTROL PANEL TO CM09. REFERENCE SECTION DETAIL 'KKK' ON DWG. E60 AND SECTION 'H' ON DWG. E51.
 - INSTALL IN NEW DUCTBANK TO THE SHEET PILE WALL. REFERENCE SECTION DETAILS 'A', 'B', AND 'C' ON DWG. E4.



LIGHTING FIBER OPTIC WIRING DIAGRAM
SCALE: N.T.S.



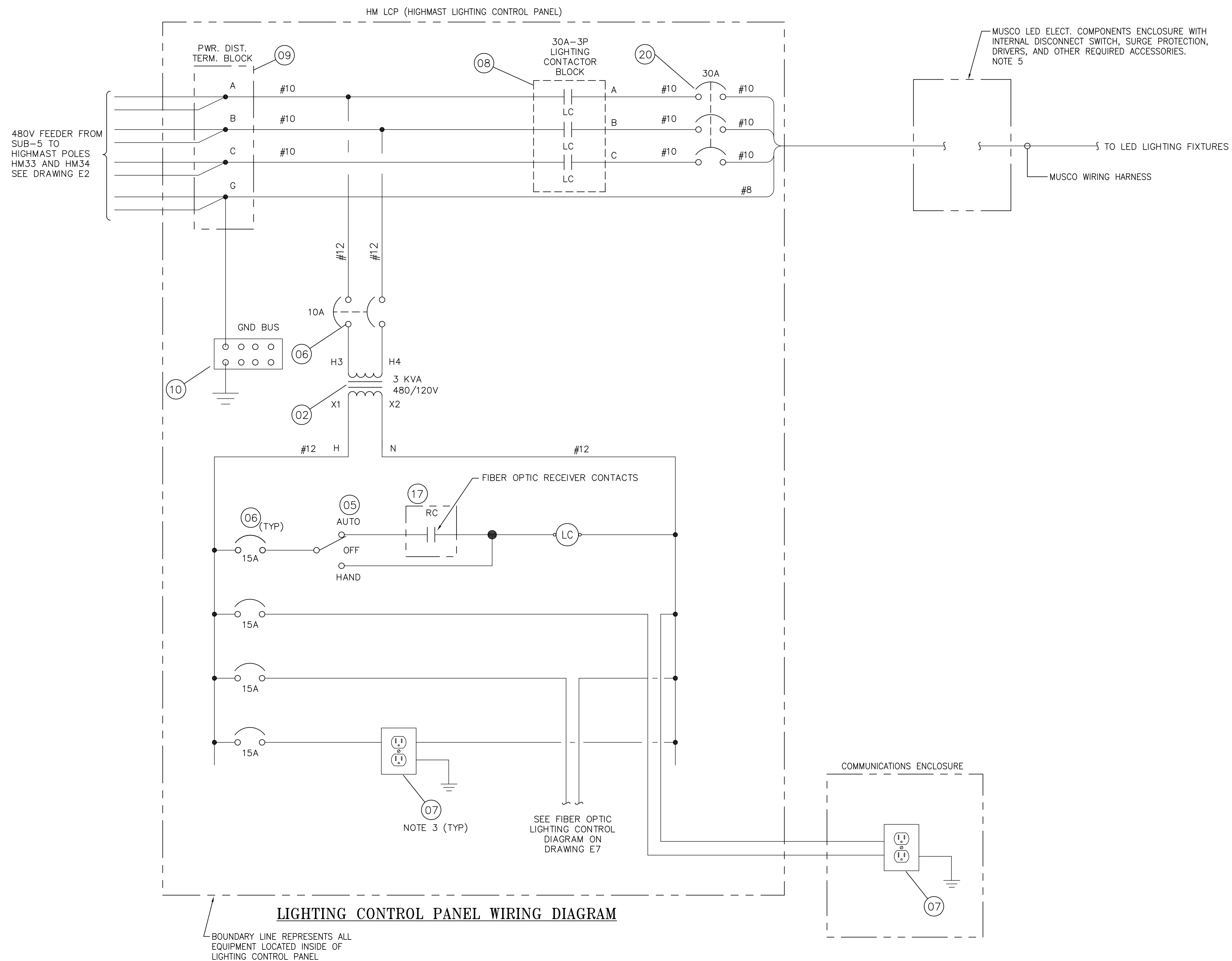
AS BUILT



| NOTES | NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|--|-----|--------------------------|-------|------|------|----------|
| DWG E-4 SUBSTATIONS 1, 2 AND 5 ELECTRICAL ONE LINE DIAGRAM | 2 | AS-BUILT | WMB | RST | HAC | 02/28/20 |
| DWG E2 POWER PLAN | 1 | REVISED FOR CONSTRUCTION | WMB | RST | HAC | 5/2/19 |
| DWG E8 HIGHMAST LIGHTING CONTROL PANEL WIRING DIAGRAM | 0 | ISSUED FOR CONSTRUCTION | WMB | RST | HAC | 9/19/18 |
| REFERENCE DRAWINGS | NO. | | | | | |



| | | |
|-----------------------------------|------------------|---------|
| ALABAMA STATE PORT AUTHORITY | MOBILE | ALABAMA |
| ASPA PROJECT NO: 10481 | ASPA DRAWING NO: | |
| APMT DOCK EXTENSION PACKAGE | | |
| LIGHTING RISER DIAGRAM AND | | |
| FIBER OPTIC WIRING DIAGRAM | | |
| FOR: ALABAMA STATE PORT AUTHORITY | | |
| PROJECT NO: 4111 | DWG NO: E7 | REV: 2 |



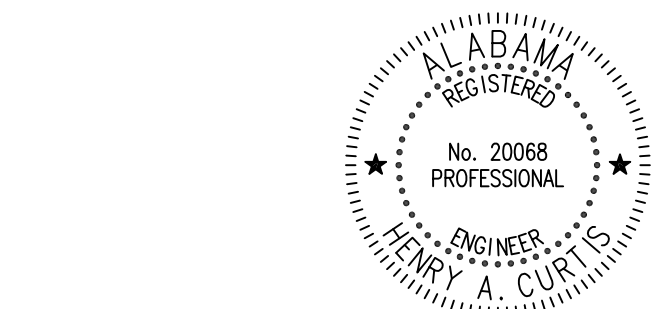
NOTES:

1. SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
2. SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX..
3. SEE 'LIST OF MATERIALS' ON DWG. E6 FOR DESCRIPTIONS OF ITEMIZED ELECTRICAL COMPONENTS CALLED OUT ON THIS DRAWING.
4. ALL FIBER OPTIC CABLE, DEVICES AND CONNECTIONS ASSOCIATED WITH THE NEW HIGHMAST LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
5. EACH FIXTURE SHALL BE SUPPLIED FROM A SEPARATE DRIVER ENERGIZED FROM SEPARATE 480V SINGLE PHASE CIRCUIT. REFER TO THE MANUFACTURER'S DRAWINGS FOR INTERNAL COMPONENTS AND WIRING.
6. CONTRACTOR TO INSTALL AND WIRE ONE ALLEN BRADLEY CONTROL RELAY AS SHOWN IN THE ELECTRICAL CONTROL SCHEMATIC THIS DWG. ALLEN BRADLEY CATALOG NUMBER 700-HA32A1, 2-POLE, DPDT, 120VAC COIL, 2 FORM C CONTACTS WITH RELAY BASE 700-HN125.
7. A NEW WEED INSTRUMENTS FIBER OPTIC TRANSMITTER CATALOG NUMBER FOT-CC-850-MM-ST SHALL BE INSTALLED INSIDE THE EXISTING HIGH MAST LIGHTING CONTROL CABINET LOCATED AT HIGH MAST POLE HM14 AND WIRED AS SHOWN. DISCONNECT AND RECONNECT THE EXISTING FIBER THAT IS DESIGNATED FOR LIGHTING CONTROLS AS SHOWN.

LIGHTING CONTROL PANEL WIRING DIAGRAM

BOUNDARY LINE REPRESENTS ALL EQUIPMENT LOCATED INSIDE OF LIGHTING CONTROL PANEL

AS BUILT



ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

ASPA PROJECT NO: 10481 ASPA DRAWING NO:

APMT DOCK EXTENSION PACKAGE
HIGHMAST LIGHTING CONTROL PANEL
WIRING DIAGRAM

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: E8 REV: 1

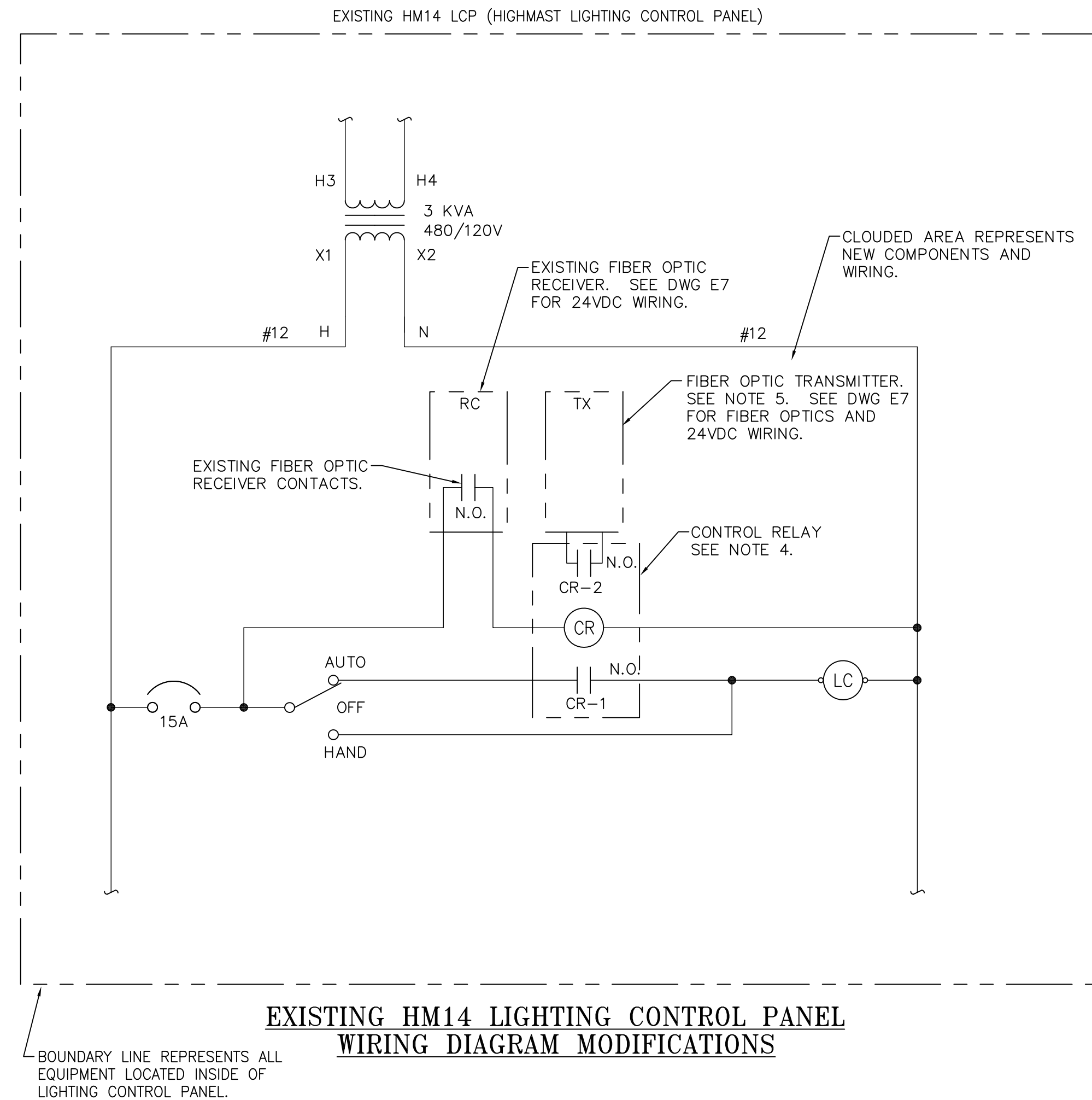


THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | WMB | RST | HAC | 02/28/20 |
| 0 | ISSUED FOR CONSTRUCTION | WMB | RST | HAC | 9/19/18 |
| | REFERENCE DRAWINGS | | | | |

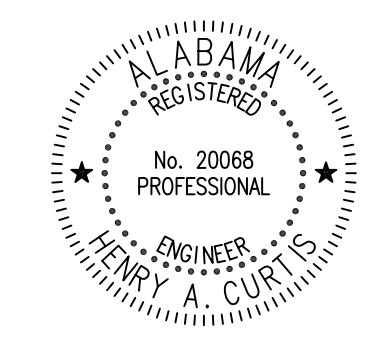
NOTES:

- SEE DWG. E1 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
- SEE DWG. G2 FOR THE ELECTRICAL DRAWING INDEX..
- ALL FIBER OPTIC CABLE, DEVICES AND CONNECTIONS ASSOCIATED WITH THE NEW HIGHMAST LIGHTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- CONTRACTOR TO INSTALL AND WIRE ONE CONTROL RELAY AS SHOWN IN THE ELECTRICAL CONTROL SCHEMATIC THIS DWG. ALLEN BRADLEY CATALOG NUMBER 700-HA3ZAT, 2-POLE, DPDT, 120VAC COIL, 2 FORM C CONTACTS WITH RELAY BASE 700-HN1Z5.
- WEED INSTRUMENTS FIBER OPTIC TRANSMITTER CATALOG NUMBER FOT-CC-850-MM-ST SHALL BE INSTALLED INSIDE THE EXISTING HIGH MAST LIGHTING CONTROL CABINET LOCATED AT HIGH MAST POLE HM14 AND WIRED AS SHOWN.

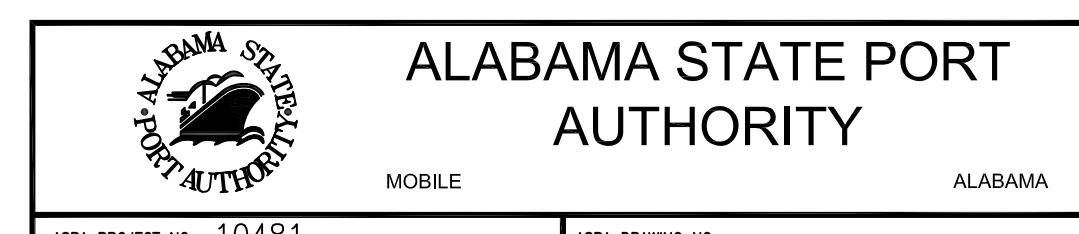


**EXISTING HM14 LIGHTING CONTROL PANEL
WIRING DIAGRAM MODIFICATIONS**

BOUNDARY LINE REPRESENTS ALL EQUIPMENT LOCATED INSIDE OF LIGHTING CONTROL PANEL.



AS BUILT

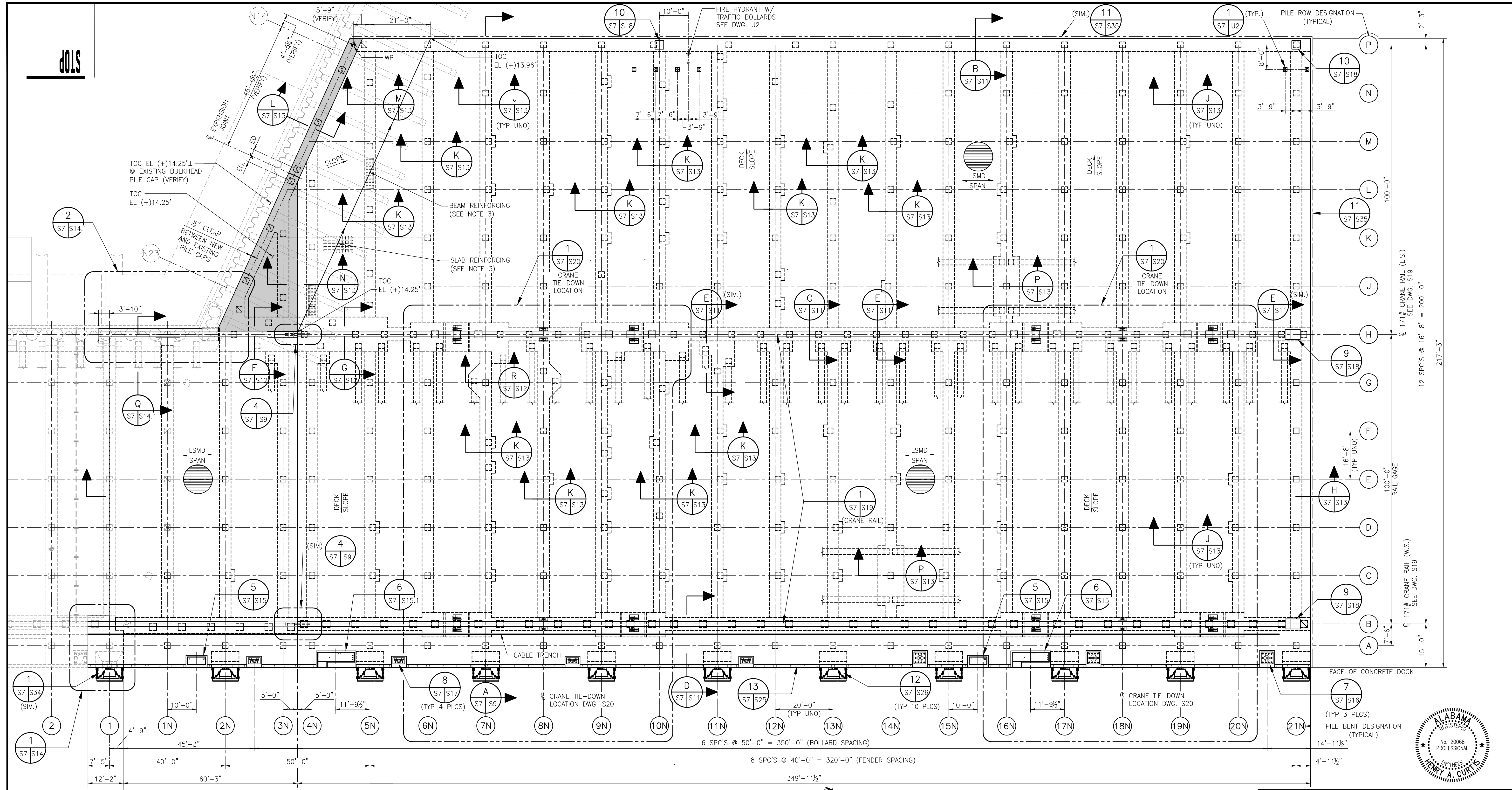


| NOTES | NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|--|-----|-------------------------|-------|------|------|----------|
| | 1 | AS-BUILT | WMB | RST | HAC | 02/28/20 |
| DWG E7 LIGHTING RISER DIAGRAM AND FIBER OPTIC WIRING DIAGRAM | 0 | ISSUED FOR CONSTRUCTION | WMB | RST | HAC | 5/2/19 |
| REFERENCE DRAWINGS | NO. | | | | | |

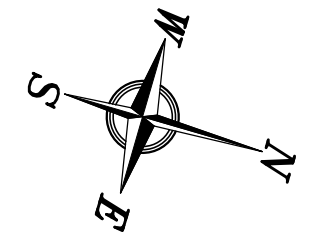


THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

| | |
|--|------------------|
| ASPA PROJECT NO: 10481 | ASPA DRAWING NO: |
| APMT DOCK EXTENSION PACKAGE EXIST. HIGHMAST HM14 LIGHTING CONTROL PANEL WIRING DIAGRAM MODIFICATIONS | |
| FOR: ALABAMA STATE PORT AUTHORITY | |
| PROJECT NO: 4111 | DWG NO: E9 |
| DATE: 3/8/19 | SCALE: N.T.S. |
| REVISION: 1 | |



DOCK EXTENSION DECK PLAN
1/16"=1'-0"



AS BUILT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

- NOTES**
- 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.
 - CRANE TIE-DOWN ASSEMBLIES TO BE CAST INTO CONCRETE BEAMS (TYP. @ ALL LOCATIONS). SEE DRAWING S20, S21, S22, & S23 FOR TIE-DOWN ENLARGED PLANS, SECTIONS & DETAILS.
 - BEND & SLOPE TOP REINFORCING BARS AT TRANSVERSE BEAM & SLAB WHERE THEY INTERSECT WITH SLOPE LINE AS REQUIRED TO MAINTAIN A CONSTANT REBAR CLEARANCE WITH TOP OF CONCRETE.

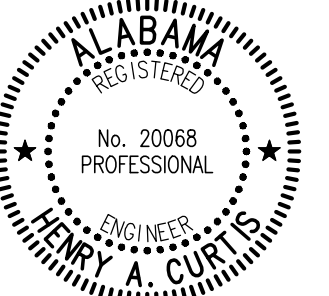
| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|--------------------------|-------|------|------|----------|
| 3 | AS-BUILT | RST | HAC | RSR | 02/28/20 |
| 2 | REVISED FOR CONSTRUCTION | RST | HAC | RSR | 4/30/19 |
| 1 | REVISED FOR CONSTRUCTION | RST | HAC | RSR | 2/26/19 |
| 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSR | 9/19/18 |

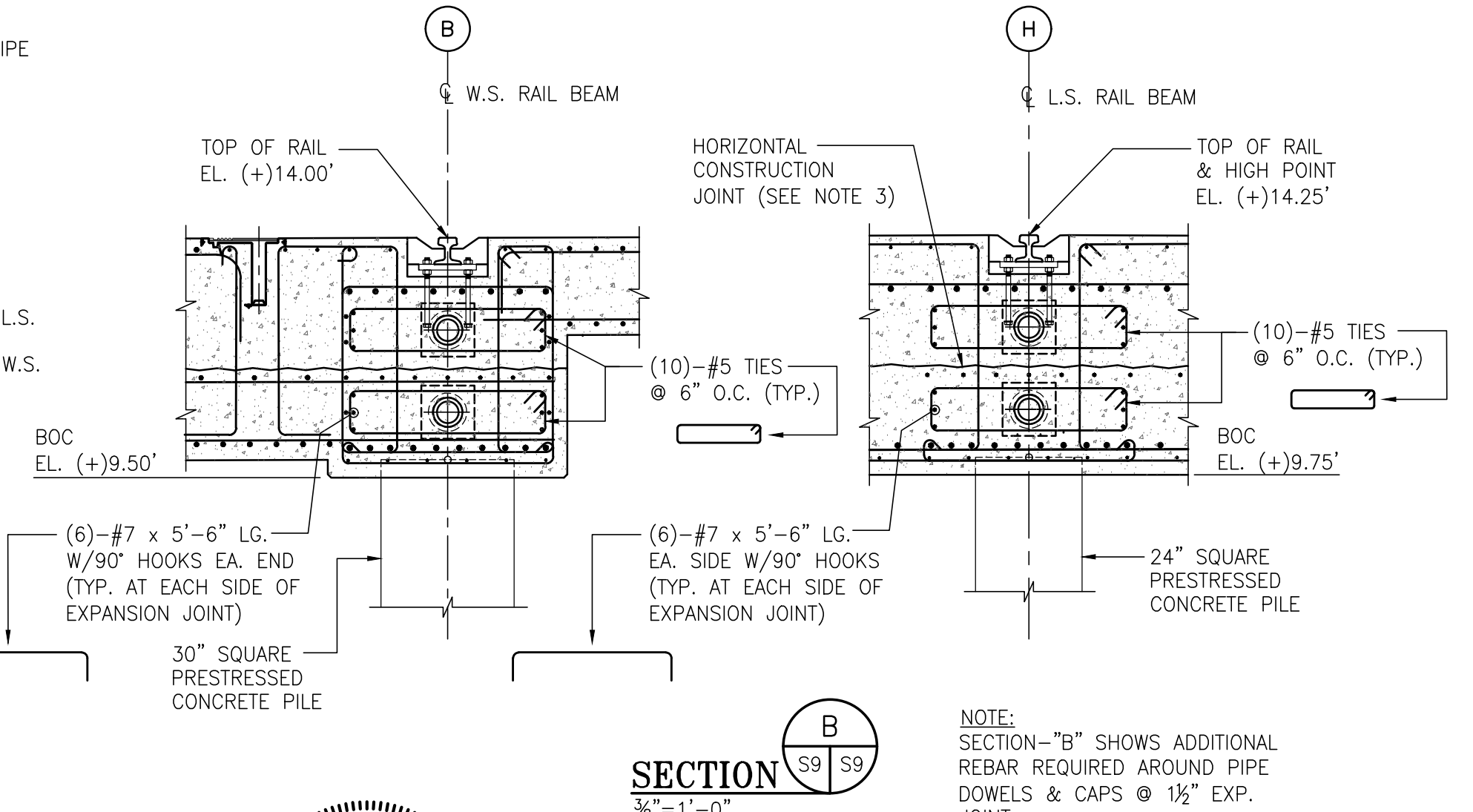
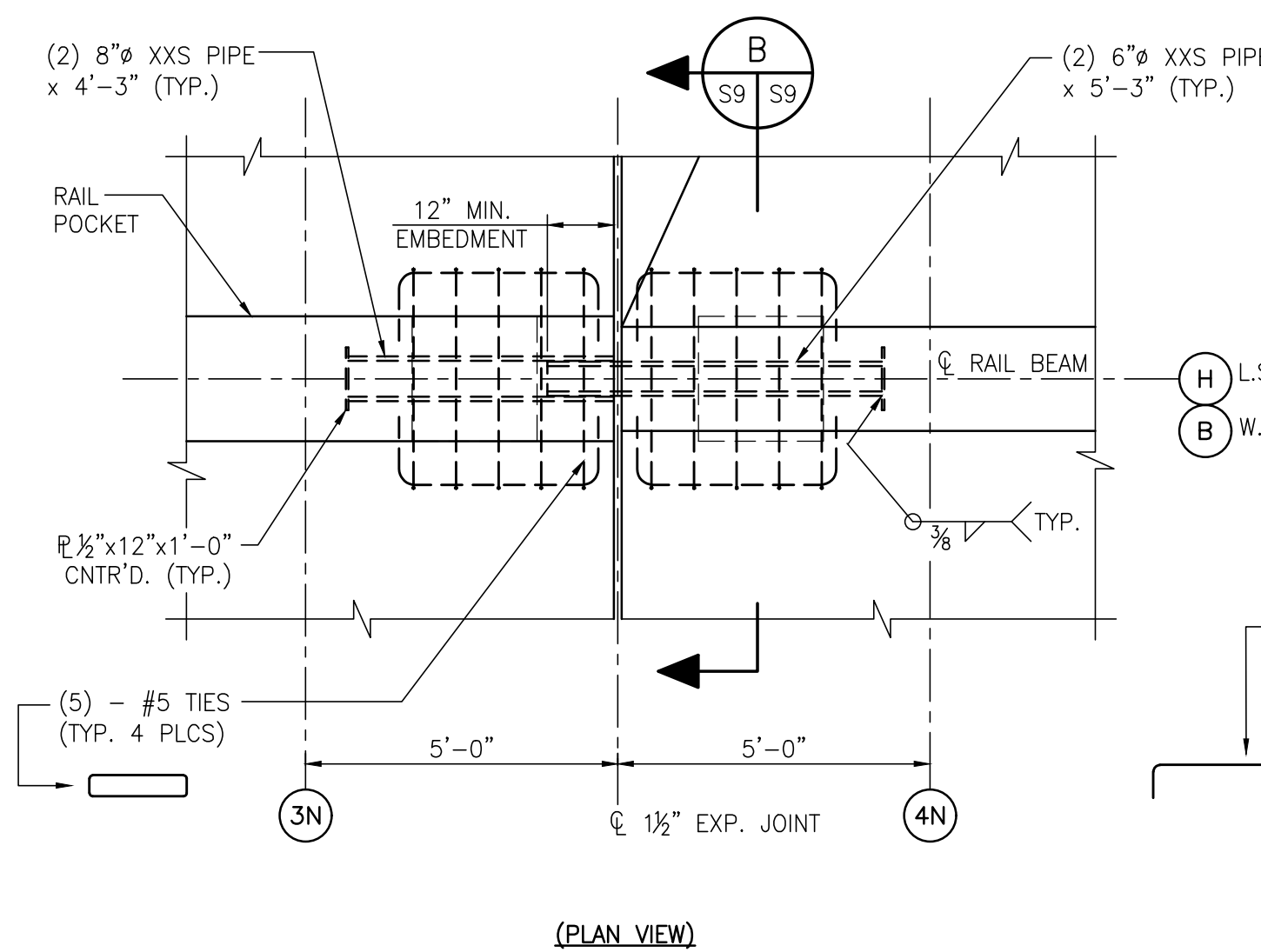
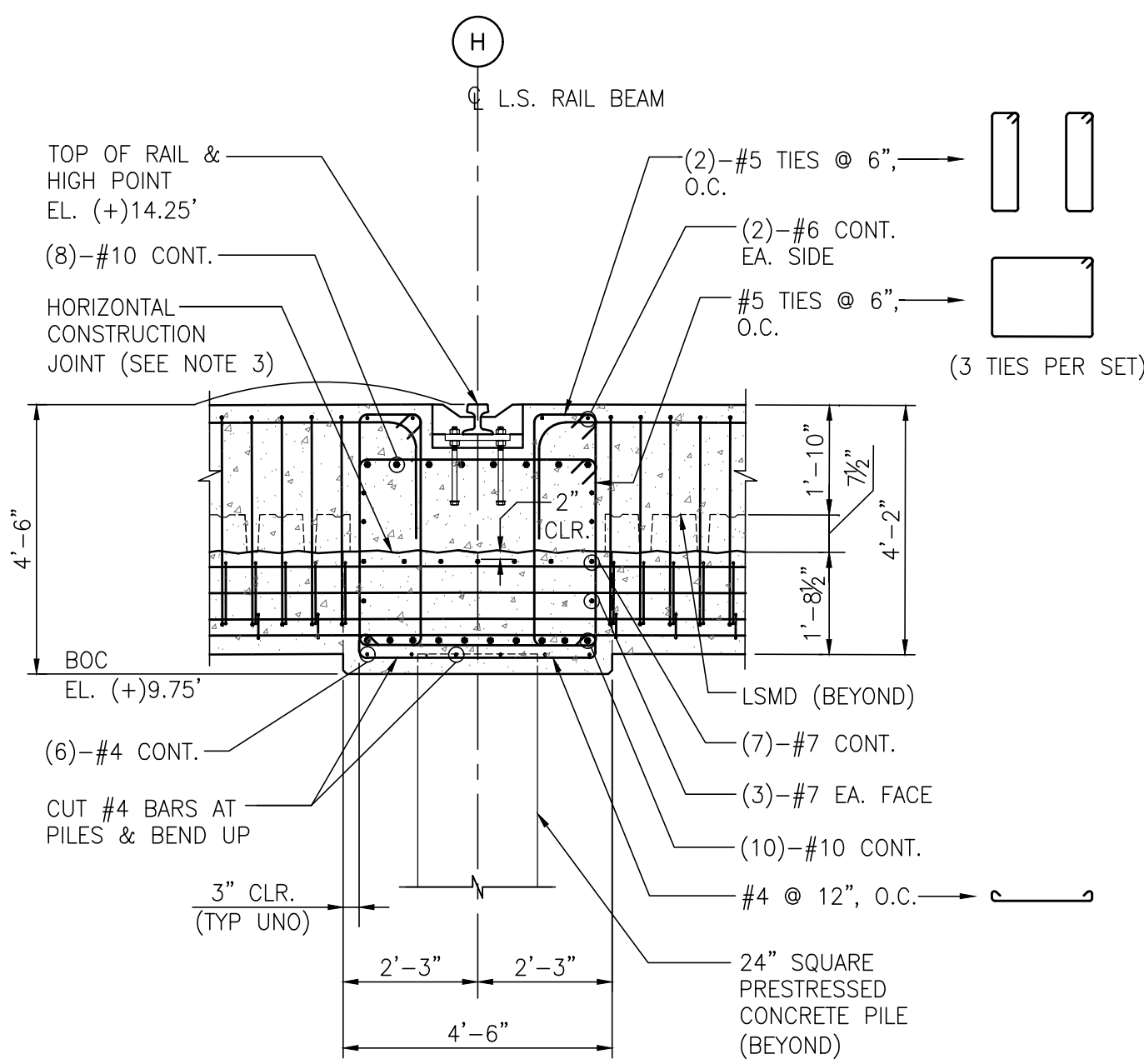
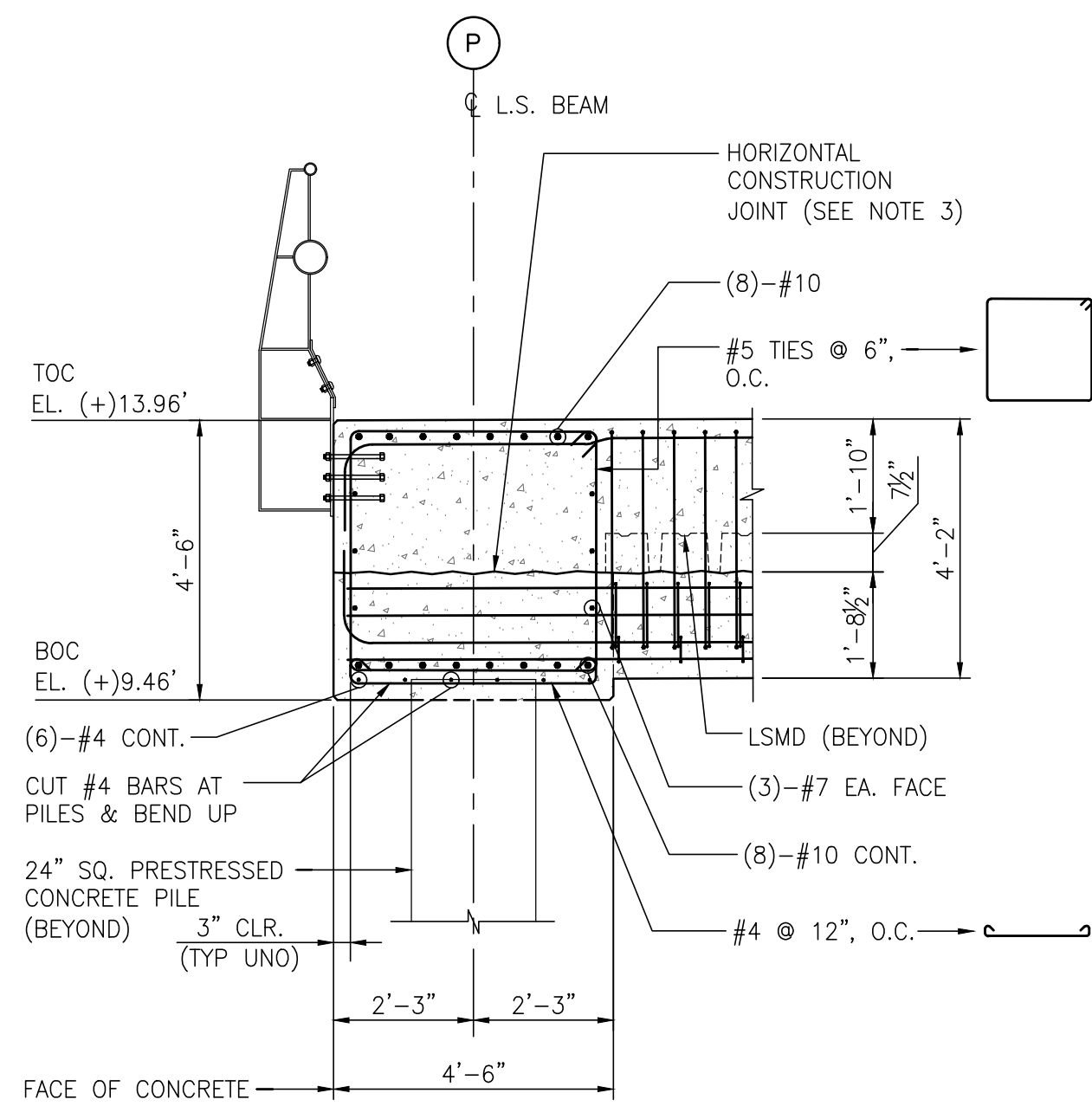
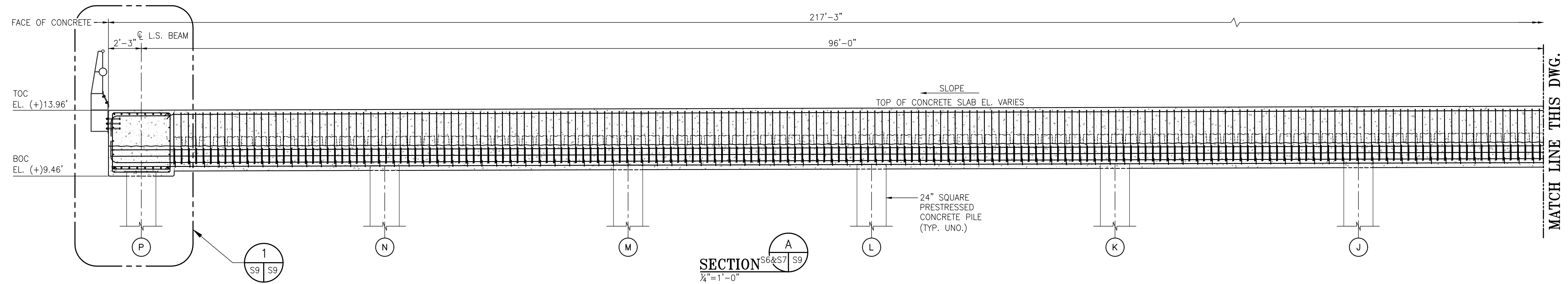
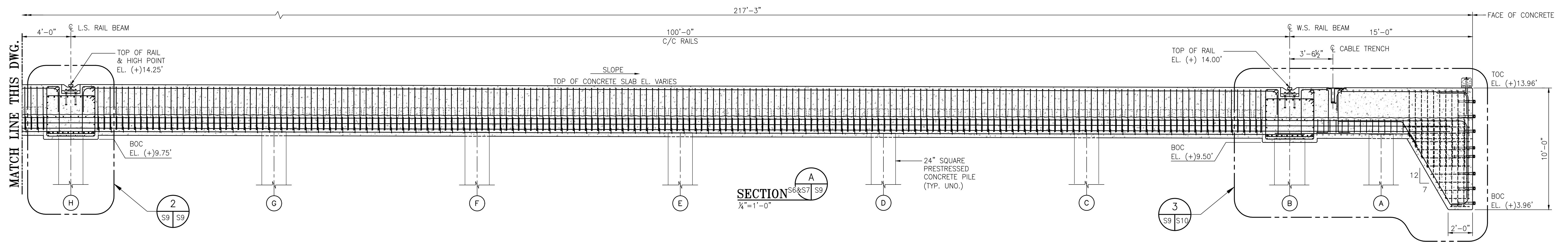
APTIM
PORT SERVICES, LLC

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.

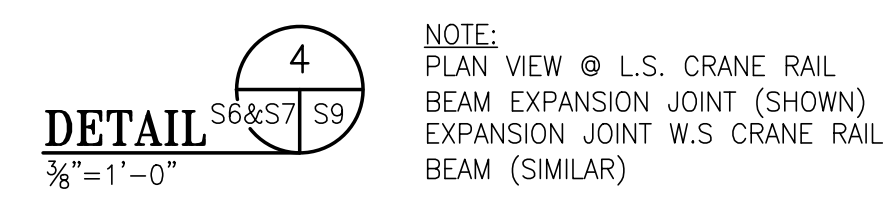
FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: S7 REV: 3

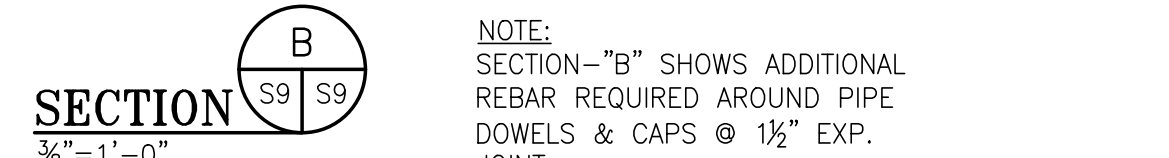




AS BUILT



NOTE:
PLAN VIEW @ L.S. CRANE RAIL
BEAM EXPANSION JOINT (SHOWN)
EXPANSION JOINT W.S. CRANE RAIL
BEAM (SIMILAR)



NOTE:
SECTION "B" SHOWS ADDITIONAL
REBAR REQUIRED AROUND PIPE
DOWELS & CAPS @ 1/2" EXP.
JOINT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA
ASPA PROJECT NO: 10481 ASPA DRAWING NO:

- NOTES
- FOR PROJECT GENERAL NOTES SEE DWG. G2
 - 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 |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | RST | HAC | RSB | 02/28/20 |
| 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSB | 9/19/18 |

APTIM
PORT SERVICES, LLC

THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL 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.

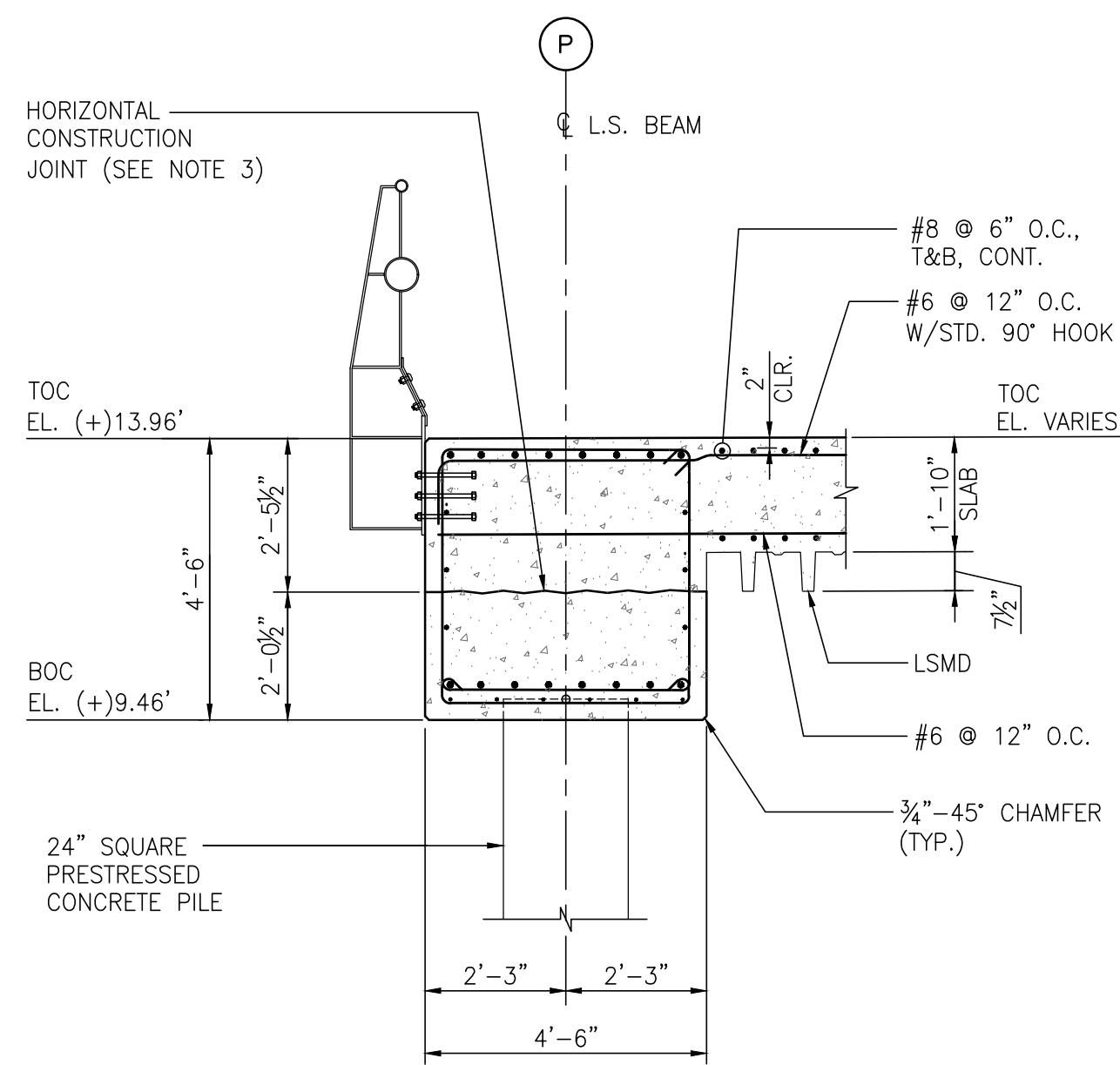
DRAWN: RST CK'D: HAC APPD: RSB DATE: 3/20/18 SCALE: AS NOTED

APMT DOCK EXTENSION PACKAGE

CONCRETE SECTIONS - METAL DECK OPTION

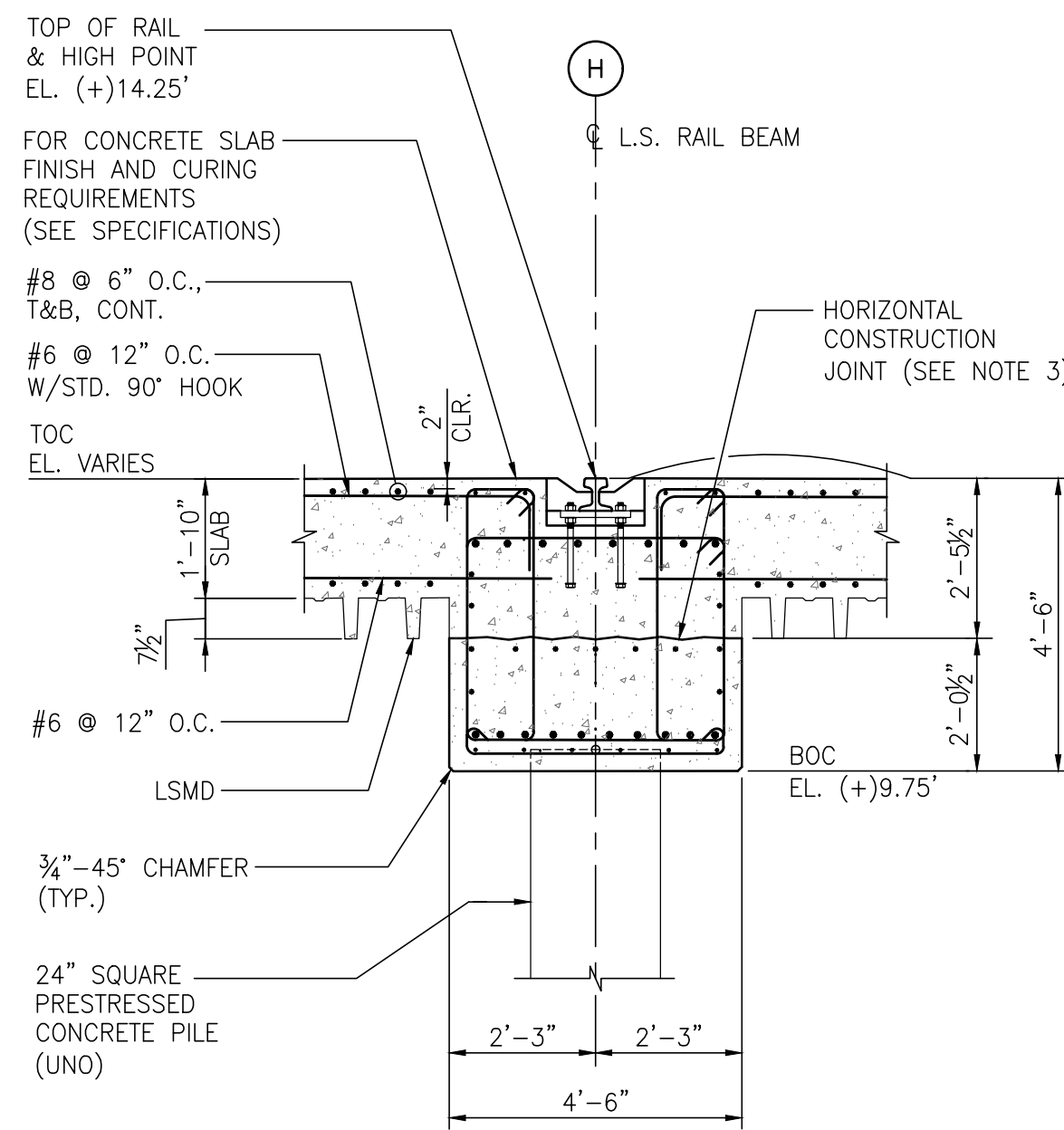
FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: S9 REV: 1



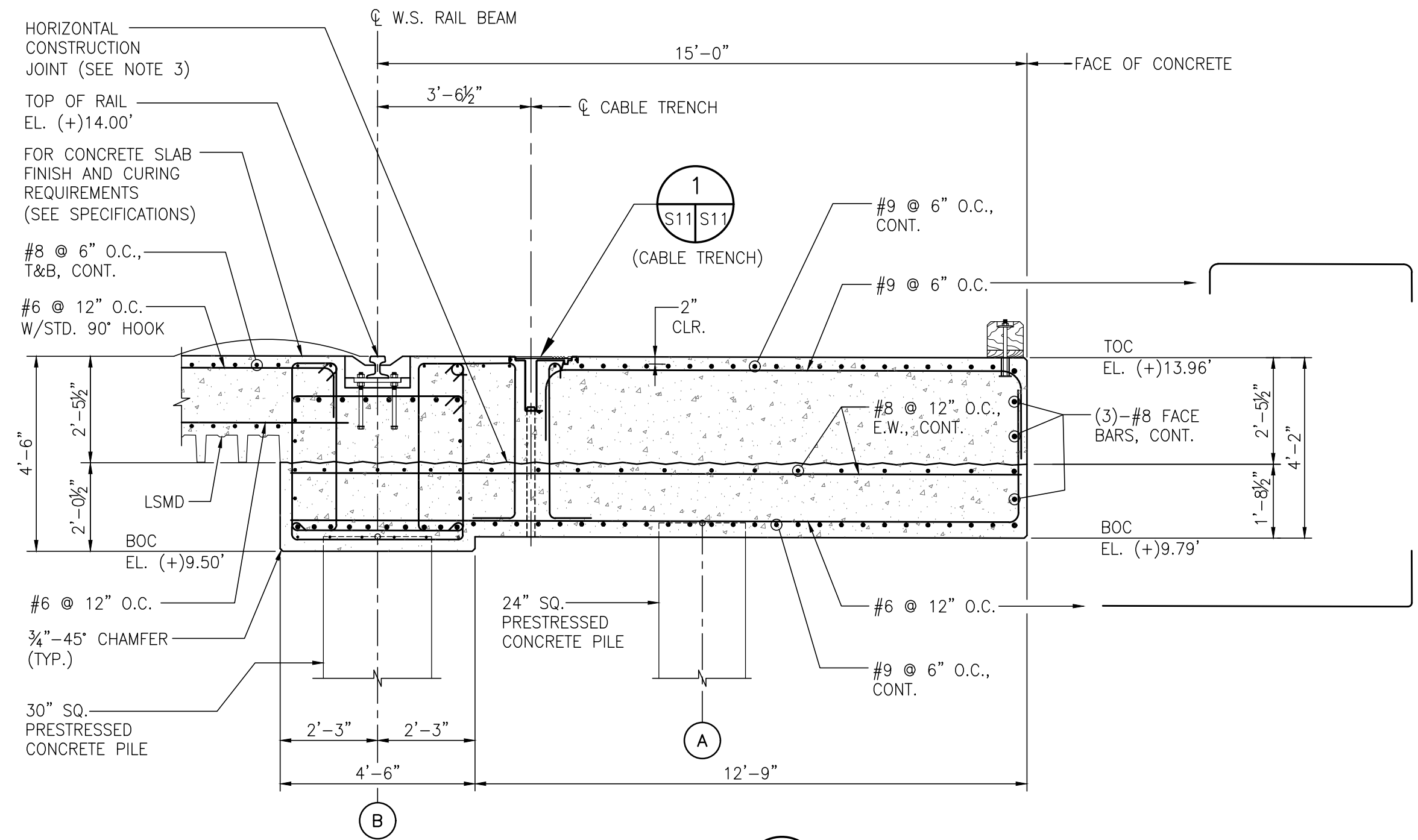
SECTION B
S6&S7/S11
3/8" = 1'-0"

NOTE:
SEE DET'L-"1" ON DWG. S9
FOR L.S. BEAM REINFORCING
INFORMATION NOT SHOWN IN
THIS SECTION VIEW.



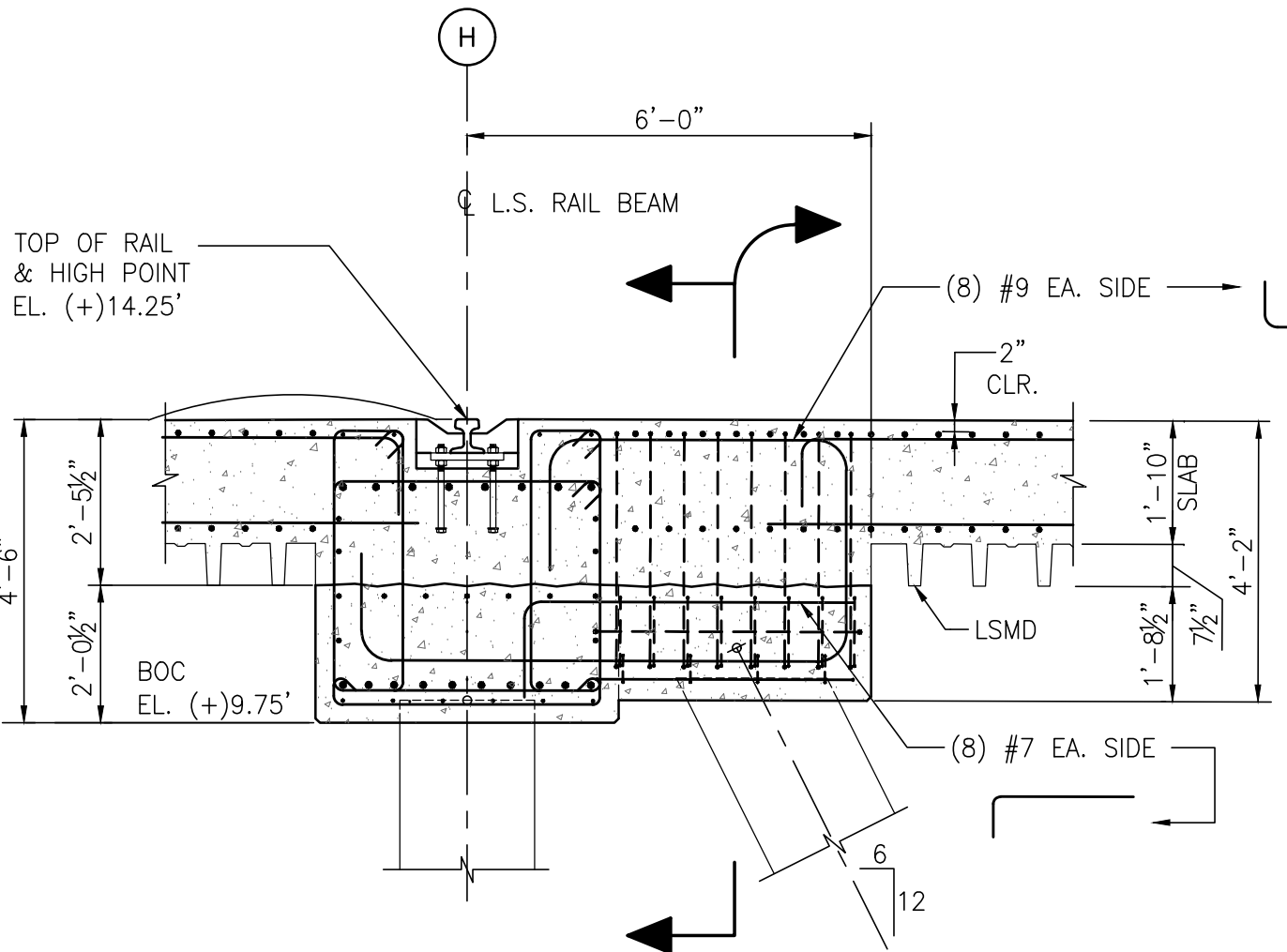
SECTION C
S6&S7/S11
3/8" = 1'-0"

NOTE:
SEE DET'L-"2" ON DWG. S9
FOR L.S. RAIL BEAM REINFORCING
INFORMATION NOT SHOWN IN THIS
SECTION VIEW.



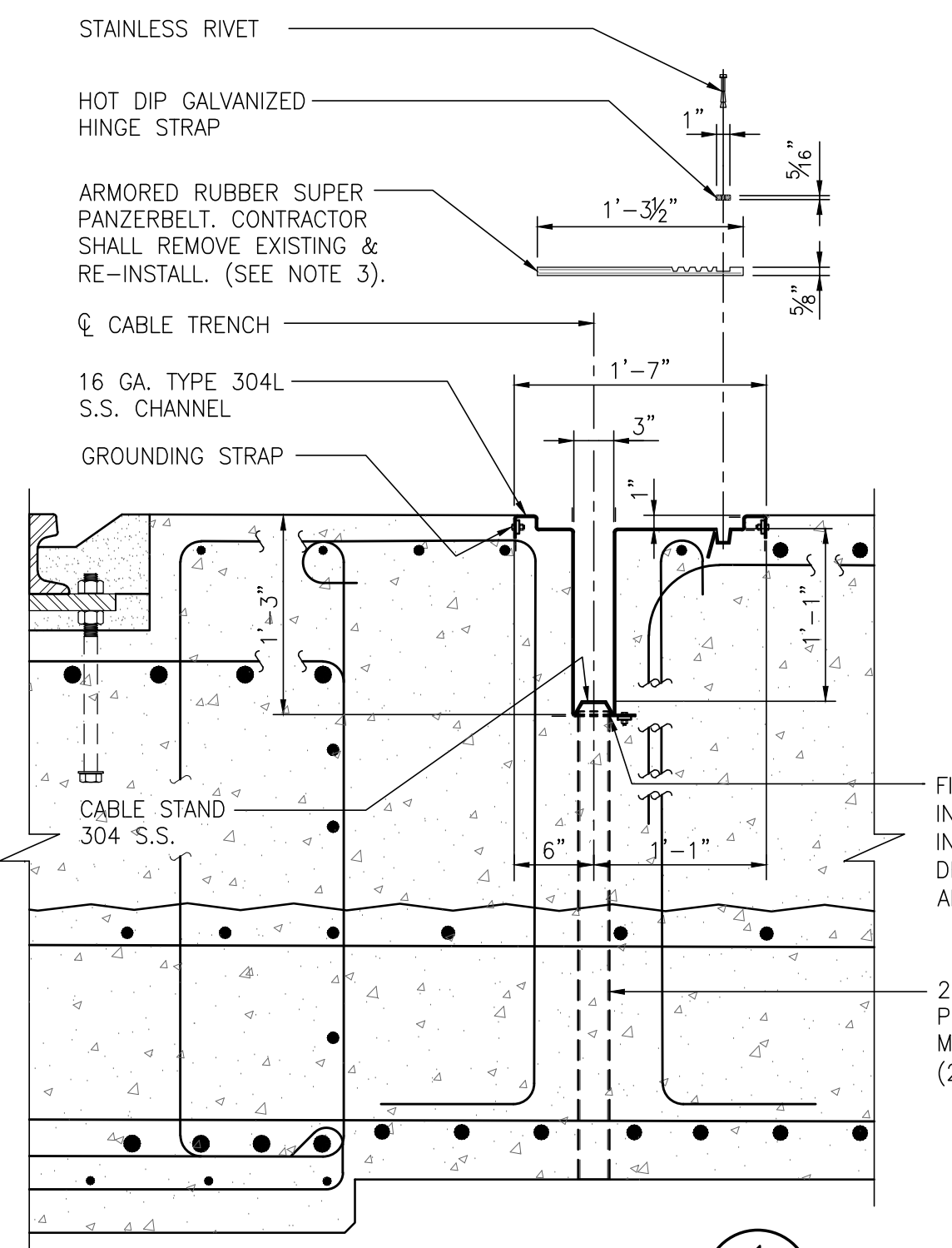
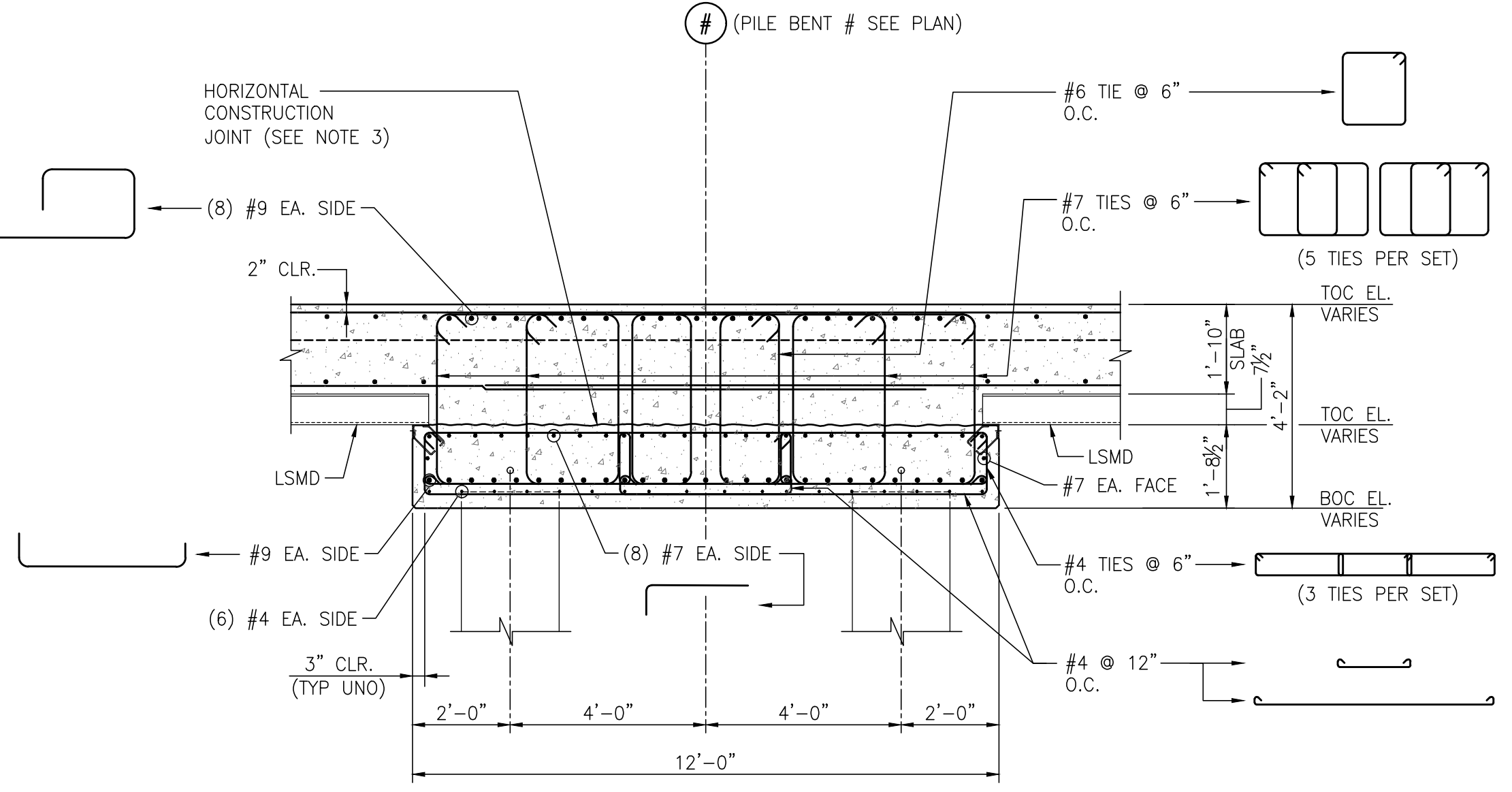
SECTION D
S6&S7/S11
3/8" = 1'-0"

NOTE:
SEE DETAIL-"3" ON DWG. S10
FOR W.S. RAIL BEAM REINFORCING
INFORMATION NOT SHOWN IN THIS
SECTION VIEW.



SECTION E
S6&S7/S11
3/8" = 1'-0"

NOTE:
1. ALL HORIZONTAL REINFORCING
AT TRANSVERSE BEAM SECTION
SHALL BE CONTINUOUS THRU
WIDENED CAP SECTION
2. SEE DETAIL-"2" ON DWG. S9
FOR L.S. RAIL BEAM REINFORCING
INFORMATION NOT SHOWN IN THIS
SECTION VIEW.
3. SEE SECTION-"J" ON DWG. S13
FOR TRANSVERSE BEAM REINFORCING
INFORMATION NOT SHOWN IN THIS
SECTION VIEW.



CABLE TRENCH INSTALLATION NOTES:

1. ORIGINAL CABLE TRENCH WAS MANUFACTURED BY GANTREX. THE EXISTING CABLE TRENCH SHALL BE EXTENDED WITH CABLE TRENCH MANUFACTURED BY CAVOTEC. ACTUAL DIMENSIONS AND DETAILS WILL CONFORM TO MANUFACTURED ITEM INSTALLED. MAXIMUM ALLOWABLE DEPTH OF CONCRETE BLOCK OUT IS 15 INCHES. MANUFACTURER SHALL VERIFY THAT SYSTEM SUPPLIED IS CAPABLE OF HANDLING UP TO SIX (6) 50MM DIAMETER CABLES.
2. CABLE TRENCH SHALL BE INSTALLED IN STRICT ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS AND TOLERANCES.
3. EXISTING PANZERBELT SHALL BE REMOVED AT THE LOCATION SHOWN ON DETAIL 1 ON DWG S14 FOR A SUFFICIENT LENGTH TO AVOID DAMAGE DURING CONCRETE DEMOLITION. THE NEW PANZERBELT SHALL BE SPLICED TO THE EXISTING PANZERBELT AS ONE PIECE WITH A MECHANICAL SPLICE.
4. CARE SHALL BE TAKEN WHERE EXISTING CABLE TRENCH IS CUT TO ENSURE THAT NO SHARP EDGES OR BURRS EXIST TO INTERFERE WITH CABLE OPERATION AT THE JOINT BETWEEN THE NEW CABLE TRENCH AND THE EXISTING CABLE TRENCH. SEE NOTE 5 BELOW.
5. AT CABLE TRENCH JOINTS A SMOOTH TRANSITION SHALL BE PROVIDED TO ENSURE NO INTERFERENCE WITH CABLE OPERATION. IF NECESSARY, SIKAFLEX-15M ELASTOMERIC SEALANT (OR APPROVED EQUAL) SHALL BE APPLIED TO THE CABLE TRENCH JOINT. APPLICATION OF ELASTOMERIC SEALANT SHALL BE AT THE DISCRETION OF THE ENGINEER.



AS BUILT

DETAIL-CABLE TRENCH
S11/S11
1" = 1'-0"

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

NOTES

1. FOR PROJECT GENERAL NOTES SEE DWG. G2
2. PROJECT DATUM IS BASED ON NAVD88.
3. 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 |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |

APTIM
PORT SERVICES, LLC

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.

DRAWN: RST CK'D: HAC APPD: RSG DATE: 3/20/18 SCALE: AS NOTED

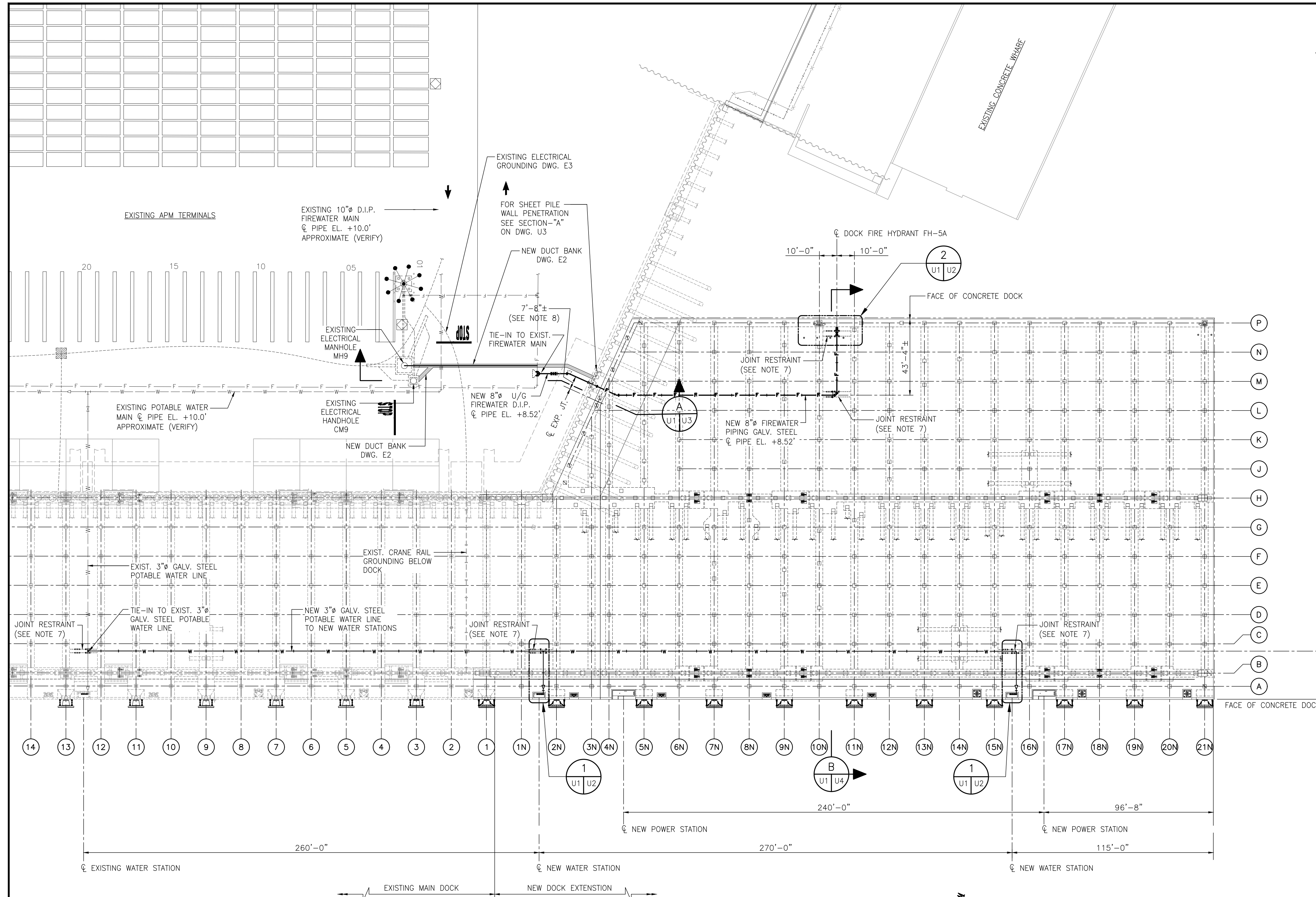
ASPA PROJECT NO: 10481 ASPA DRAWING NO:

APMT DOCK EXTENSION PACKAGE

CONCRETE SECTIONS - METAL DECK OPTION

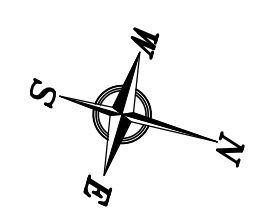
FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: S11 REV: 1



- NOTES:**
- ALL PIPELINE MATERIAL AND INSTALLATION SHALL CONFORM TO THE MOBILE AREA WATER AND SEWER SYSTEM STANDARD SPECIFICATIONS, PROJECT SPECIFICATION SECTION-15140 WATER SYSTEM, DETAILS INDICATED ON THE PROJECT DRAWINGS AND ALL APPLICABLE LOCAL AND STATE REQUIREMENTS.
 - THE EXACT LOCATION OF THE PROPOSED UNDERGROUND WATERLINES MAY VARY WITHIN THE LIMITS ESTABLISHED BY THE OWNER TO AVOID CONFLICTS WITH EXISTING UTILITIES AND OTHER PHYSICAL FEATURES.
 - ALL POTABLE AND FIREWATER PIPING SHALL BE INSTALLED WITH THE MINIMUM VERTICAL/HORIZONTAL SEPARATION FROM ALL EXISTING AND/OR PROPOSED SANITARY, STORM PIPING AS REQUIRED BY THE MOBILE AREA WATER AND SEWER SYSTEM. CONFLICTS BETWEEN STORM AND SANITARY SEWER SYSTEMS, FORCE MAINS AND PROPOSED POTABLE OR FIREWATER MAINS SHALL BE RESOLVED BY ADJUSTING THE PROPOSED POTABLE/FIREWATER MAIN. PIPE JOINT DEFLECTIONS SHALL NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDATIONS.
 - WHEN REQUIRED, PROPER BACKFLOW PREVENTION ASSEMBLIES SHALL BE PROVIDED IN ACCORDANCE WITH AWWA MANUAL M14, "BACKFLOW PREVENTION AND CROSS CONNECTION CONTROL" AND THE MOBILE AREA WATER AND SEWER SYSTEM.
 - ALL NEW WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 3'-0" OF COVER, UNLESS NOTED OTHERWISE. WATER MAINS CROSSING DITCHES SHALL HAVE A MINIMUM COVER OF 4'-0".
 - CONTRACTOR SHALL INSTALL WATER MAIN TO AVOID HIGH POINTS IN THE MAIN UNLESS INDICATED ON THE PLANS.
 - AT LOCATIONS WHERE PIPING UNDERNEATH DOCK STRUCTURE IS INDICATED TO REQUIRE "JOINT RESTRAINT", A PIPE SUPPORT FRAME SHALL BE INSTALLED. SEE DETAILS ON DRAWING U5 FOR 8" SCH. 40 GALVANIZED STEEL FIRE WATER LINE AND DWG. U6 FOR 3" SCH. 40 GALVANIZED STEEL POTABLE WATER LINE.
 - FIELD VERIFY LOCATIONS OF PIPING & ELECTRICAL PENETRATIONS IN THIS AREA AS REQUIRED TO CLEAR INTERLOCKING CONNECTIONS AT EXISTING AZ48 SHEET PILE WALL. LIMIT REMOVAL OF SHEET PILE ONLY AS REQUIRED TO INSTALL PIPE & CONDUITS. (FIELD NOTE: DO NOT CUT INTERLOCKING CONNECTIONS AT AZ48 SHEET PILE WALL.)

UTILITY PIPING PLAN
1"=30'



AS BUILT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA
ASPA PROJECT NO: 10481 ASPA DRAWING NO:

NOTES

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|--------------------------|-------|------|------|----------|
| 2 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 1 | REVISED FOR CONSTRUCTION | RST | HAC | RSG | 2/1/19 |
| 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |

APTIM
PORT SERVICES, LLC

THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL 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.

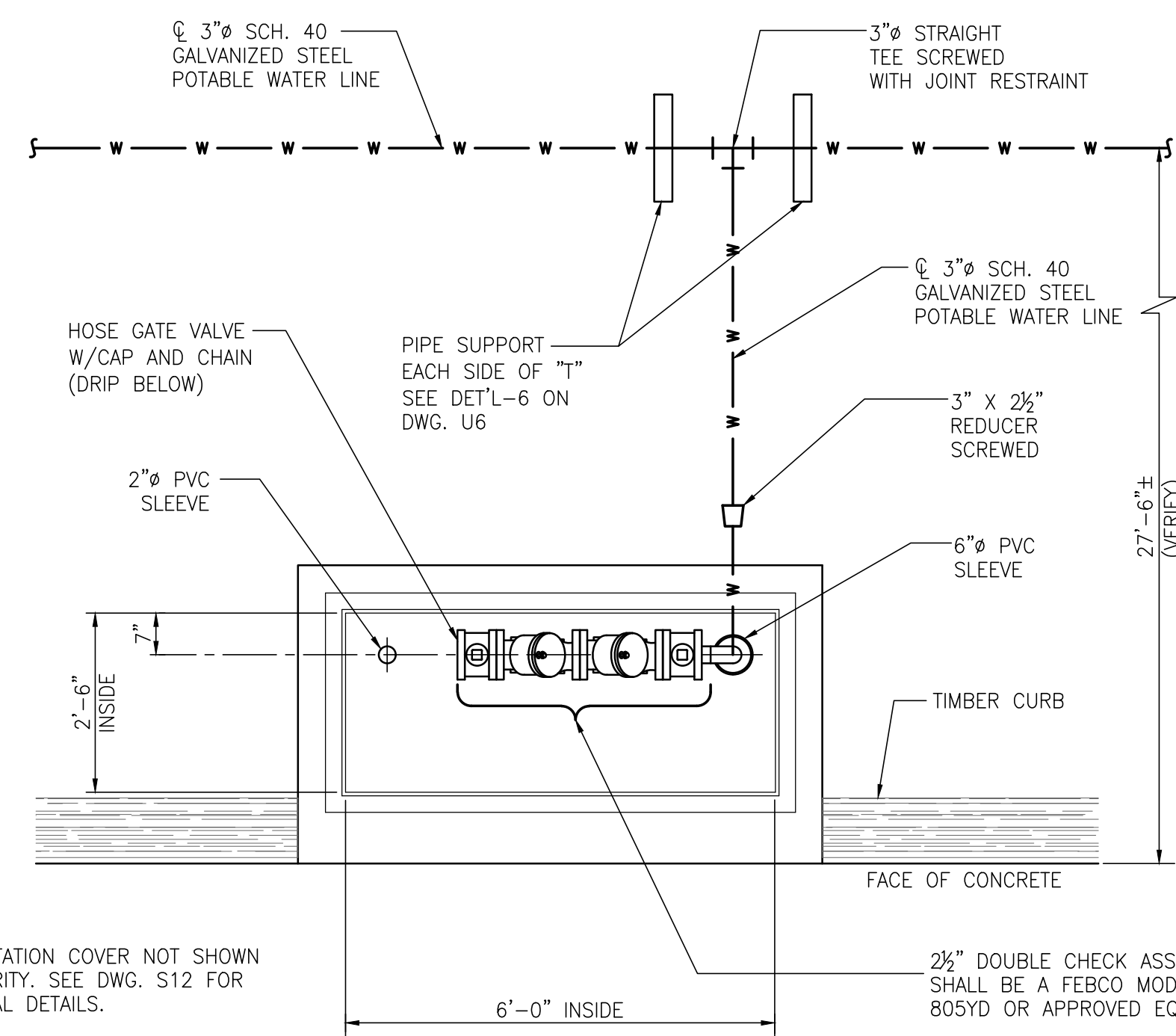
DRAWN: RST CK'D: HAC APPD: RSG DATE: 1/08/18 SCALE: AS NOTED

APMT DOCK EXTENSION PACKAGE

UTILITY PIPING PLAN & NOTES

FOR: ALABAMA STATE PORT AUTHORITY

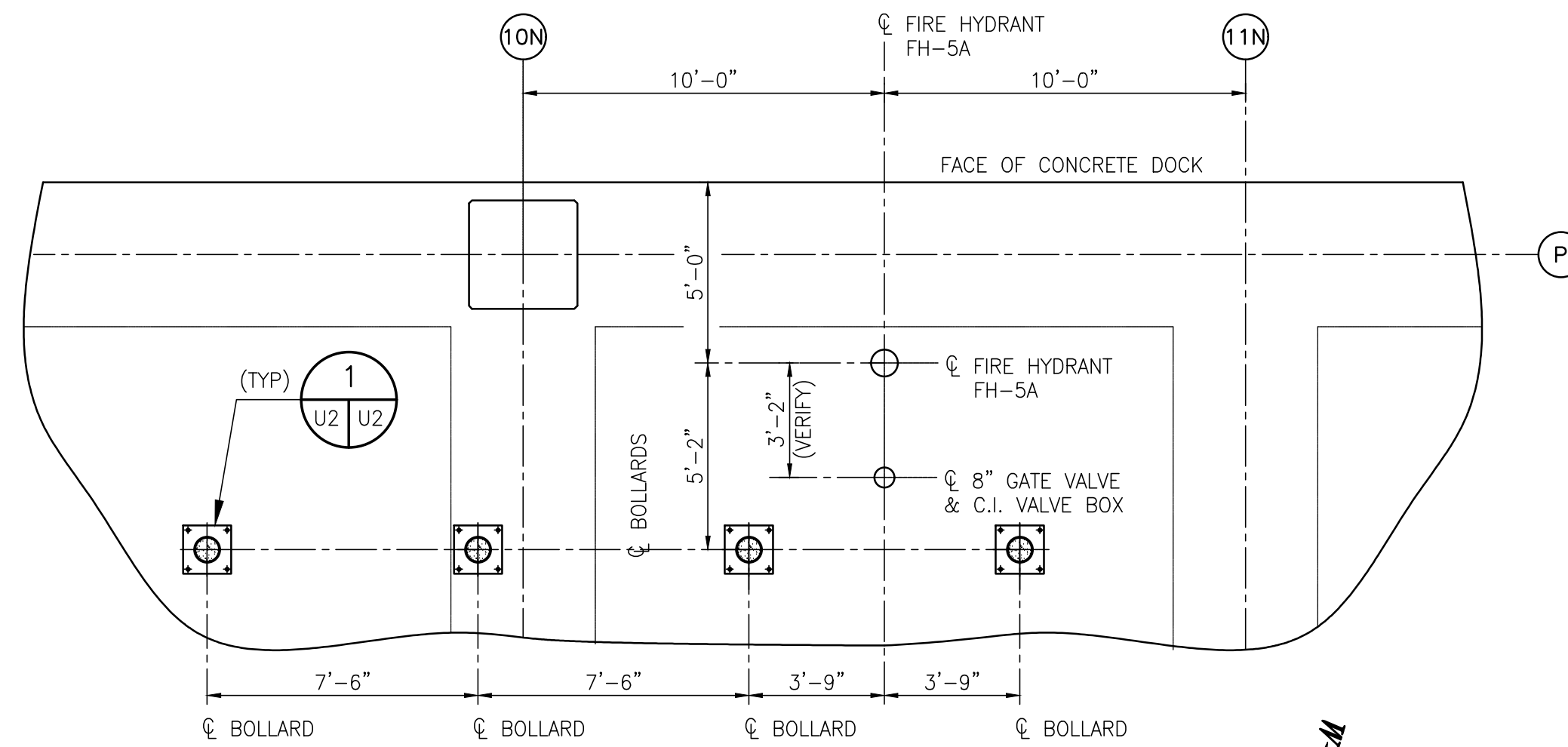
PROJECT NO: 4111 DWG NO: U1 REV: 2



WATER STATION DETAIL

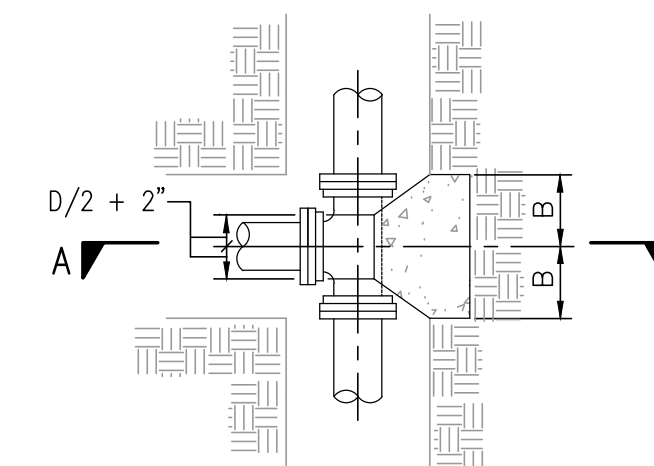
1/2"=1'-0"

NOTE:
WATER STATION COVER NOT SHOWN FOR CLARITY. SEE DWG. S12 FOR ADDITIONAL DETAILS.

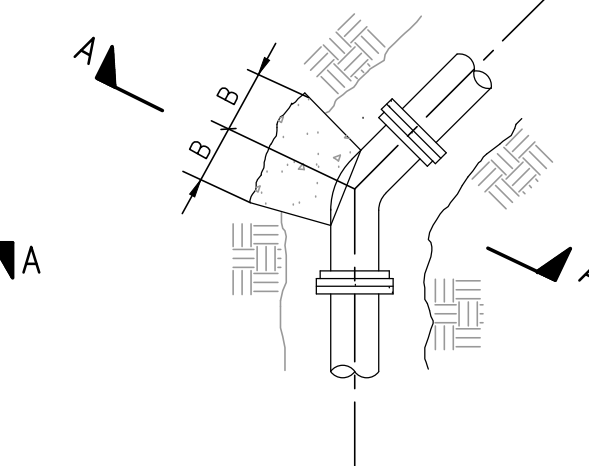


PLAN @ DOCK FIRE HYDRANT LOCATION

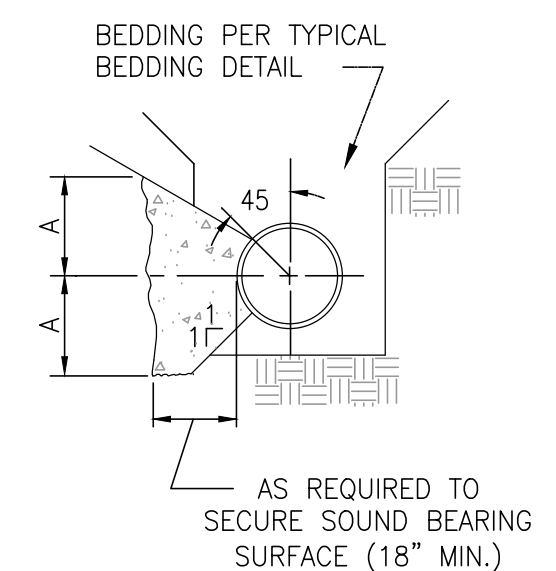
1/4"=1'-0"



PLAN - TEES

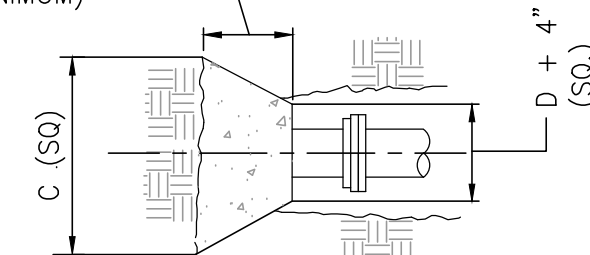


PLAN - BENDS



BENDS & TEES SECTION A-A

AS REQUIRED TO SECURE SOUND BEARING SURFACE (18" MINIMUM)



PLAN & ELEVATION PLUGS

***THRUST BLOCK DIMENSION TABLE**

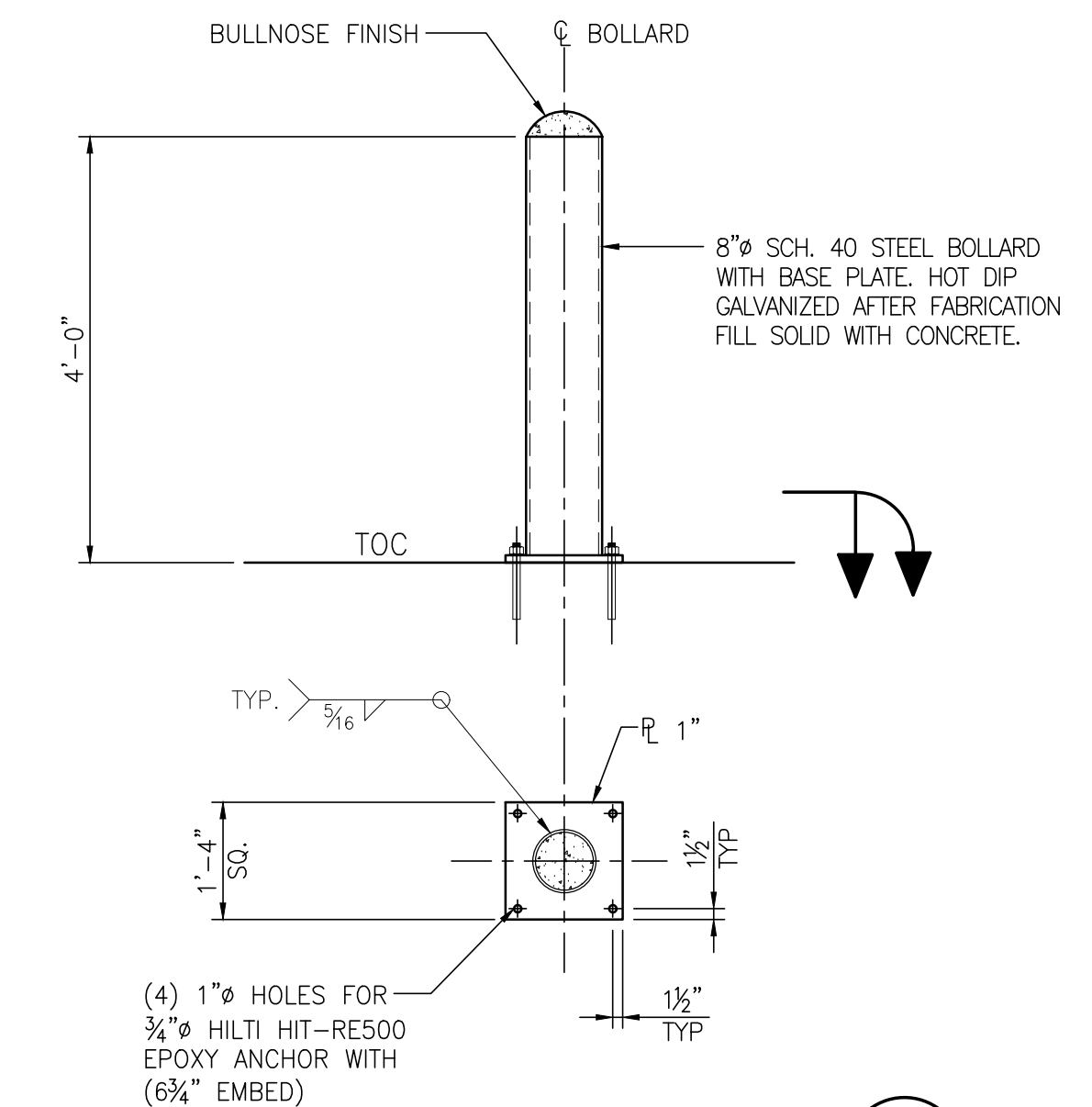
| PIPE SIZE | 90° ELLS | | 45° ELLS | | 22 1/2° ELLS | | TEES | | PLUGS | |
|-----------|----------|-----|----------|-----|--------------|-----|------|-----|-------|--|
| | D | A | A | B | A | B | A | B | C | |
| 2" | 3" | 6" | 3" | 3" | 3" | 3" | 3" | 4" | 7" | |
| 2 1/2" | 3" | 9" | 3" | 5" | 3" | 3" | 3" | 6" | 9" | |
| 3" | 4" | 12" | 3" | 9" | 3" | 5" | 3" | 11" | 12" | |
| 4" | 5" | 14" | 4" | 10" | 4" | 5" | 4" | 13" | 14" | |
| 6" | 8" | 18" | 6" | 13" | 6" | 7" | 6" | 17" | 20" | |
| 8" | 10" | 25" | 8" | 17" | 8" | 9" | 8" | 22" | 27" | |
| 10" | 13" | 29" | 10" | 20" | 10" | 11" | 10" | 27" | 33" | |
| 12" | 15" | 35" | 12" | 24" | 12" | 12" | 12" | 31" | 39" | |

*DIMENSIONS SHOWN ARE MINIMUM

NOTE:
ALL THRUST BLOCK CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI.

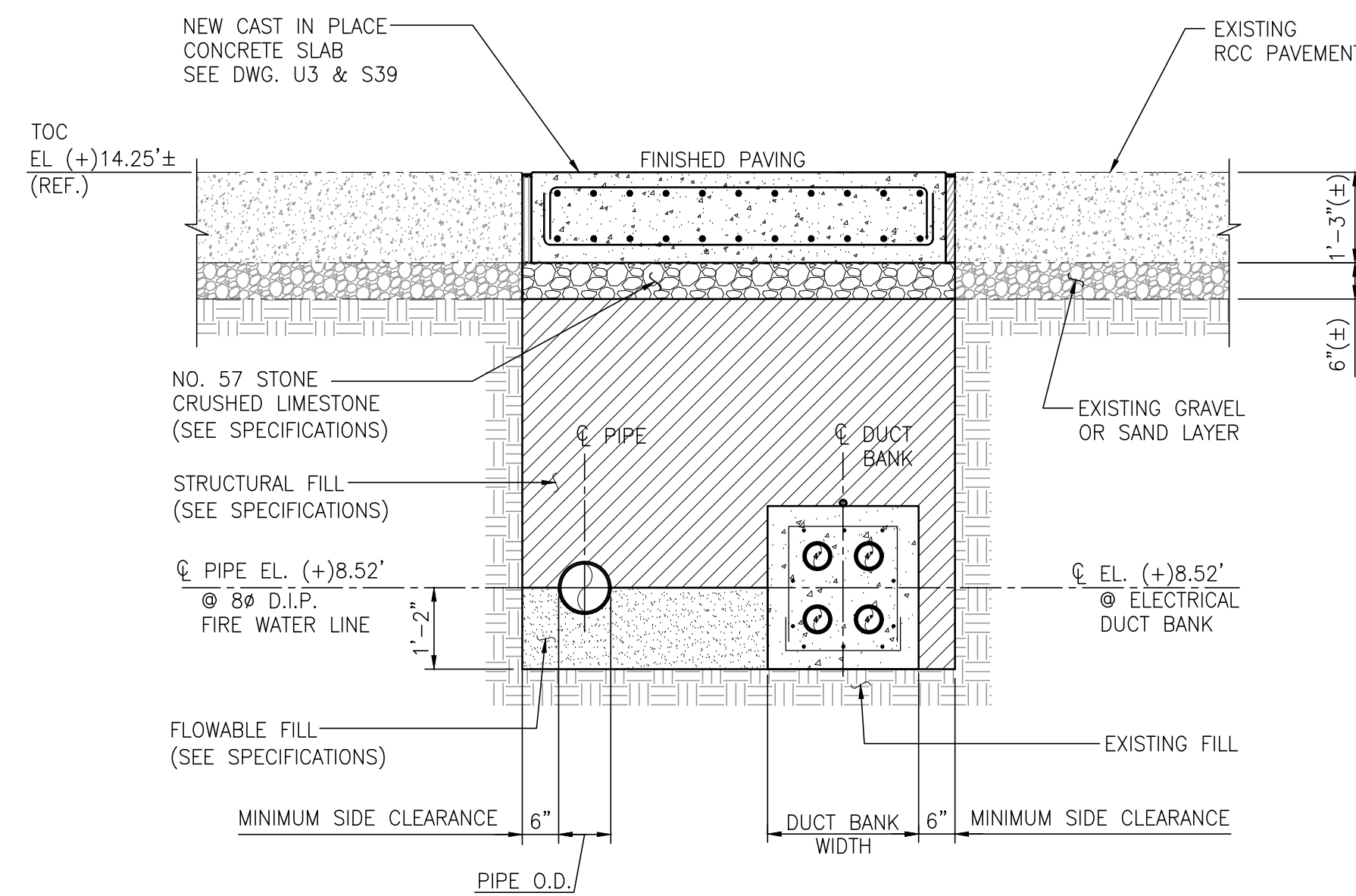
THRUST BLOCK DETAILS

NOT TO SCALE



TYPICAL BOLLARD DETAIL

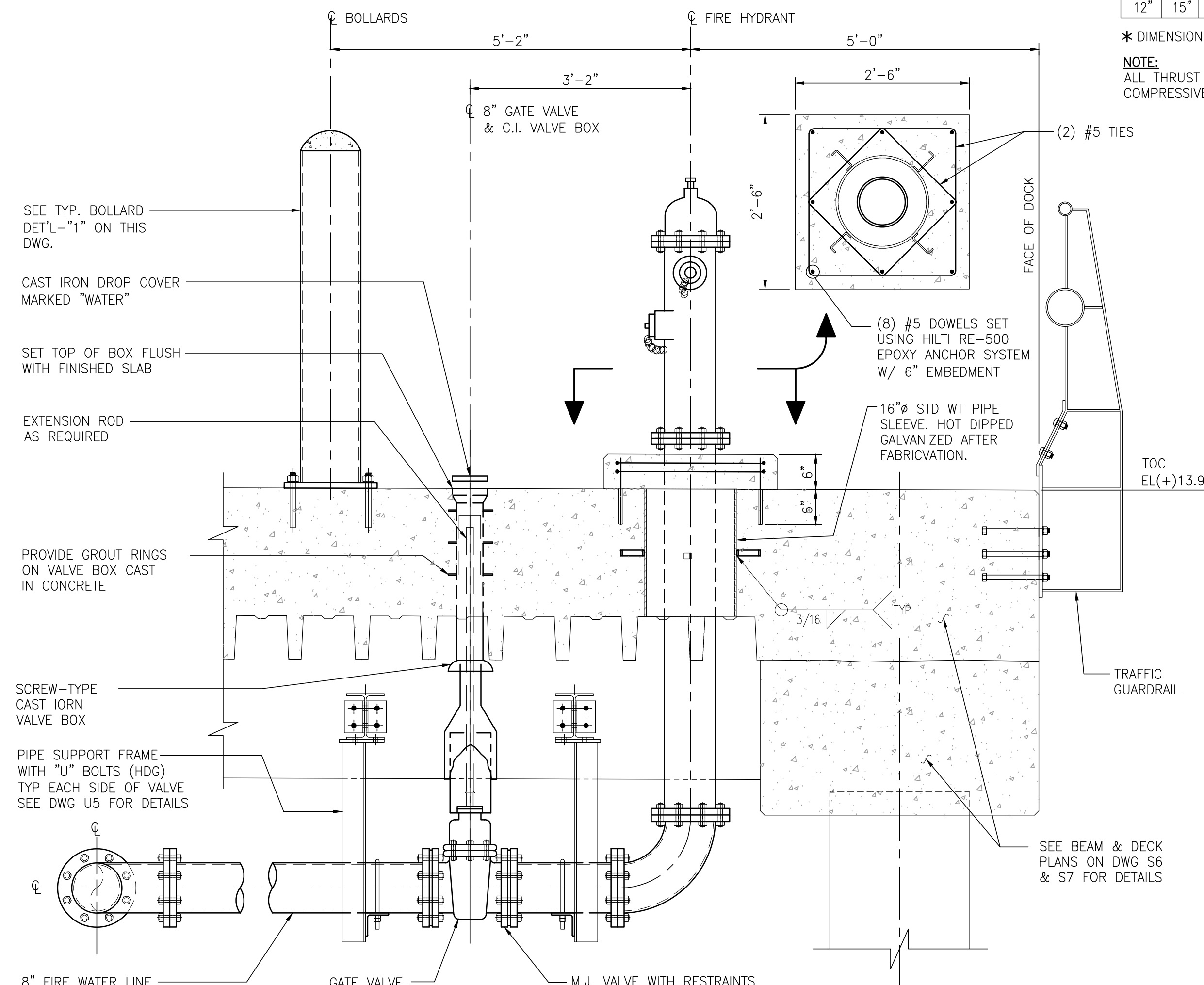
1/2"=1'-0" (TOTAL NO. REQ'D. = 6)



TRENCH DETAIL

1/2"=1'-0"

- NOTES:**
- TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 - BACKFILL SHALL BE TAMPED IN 6" LAYERS.



DOCK FIRE HYDRANT & GATE VALVE DETAIL

NOT TO SCALE



AS BUILT

ALABAMA STATE PORT AUTHORITY

MOBILE ALABAMA

ASPA PROJECT NO: 10481 ASPA DRAWING NO:

APMT DOCK EXTENSION PACKAGE

UTILITY PIPING SECTIONS & DETAILS

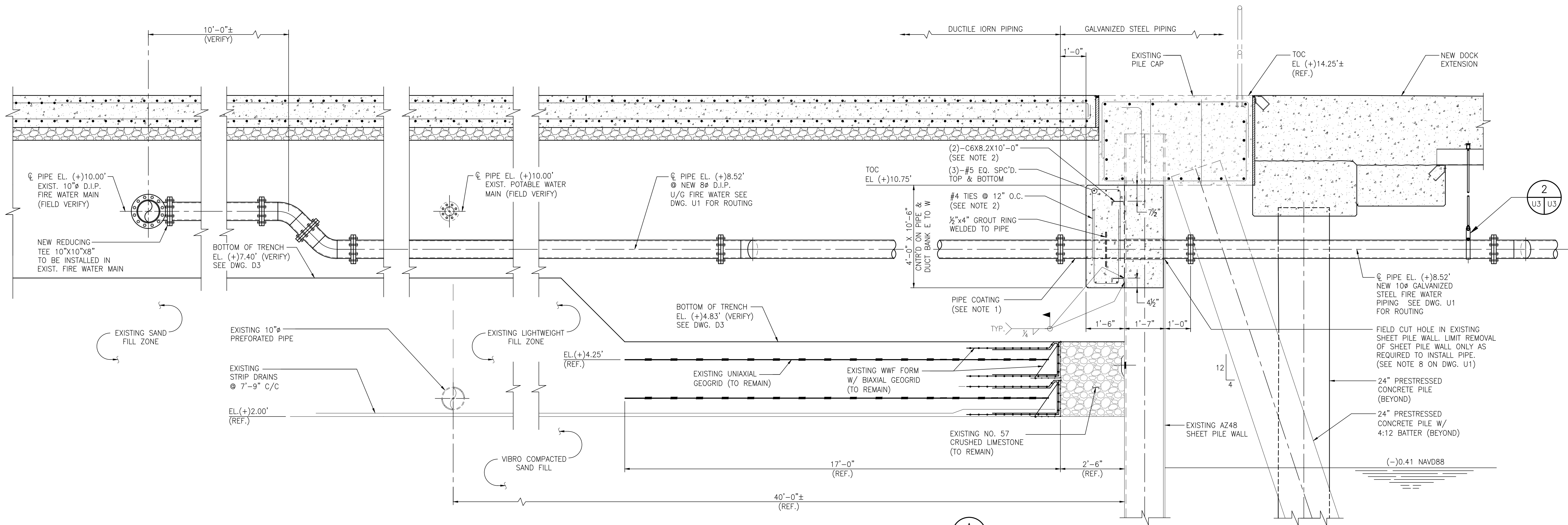
FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: U2

REV: 1

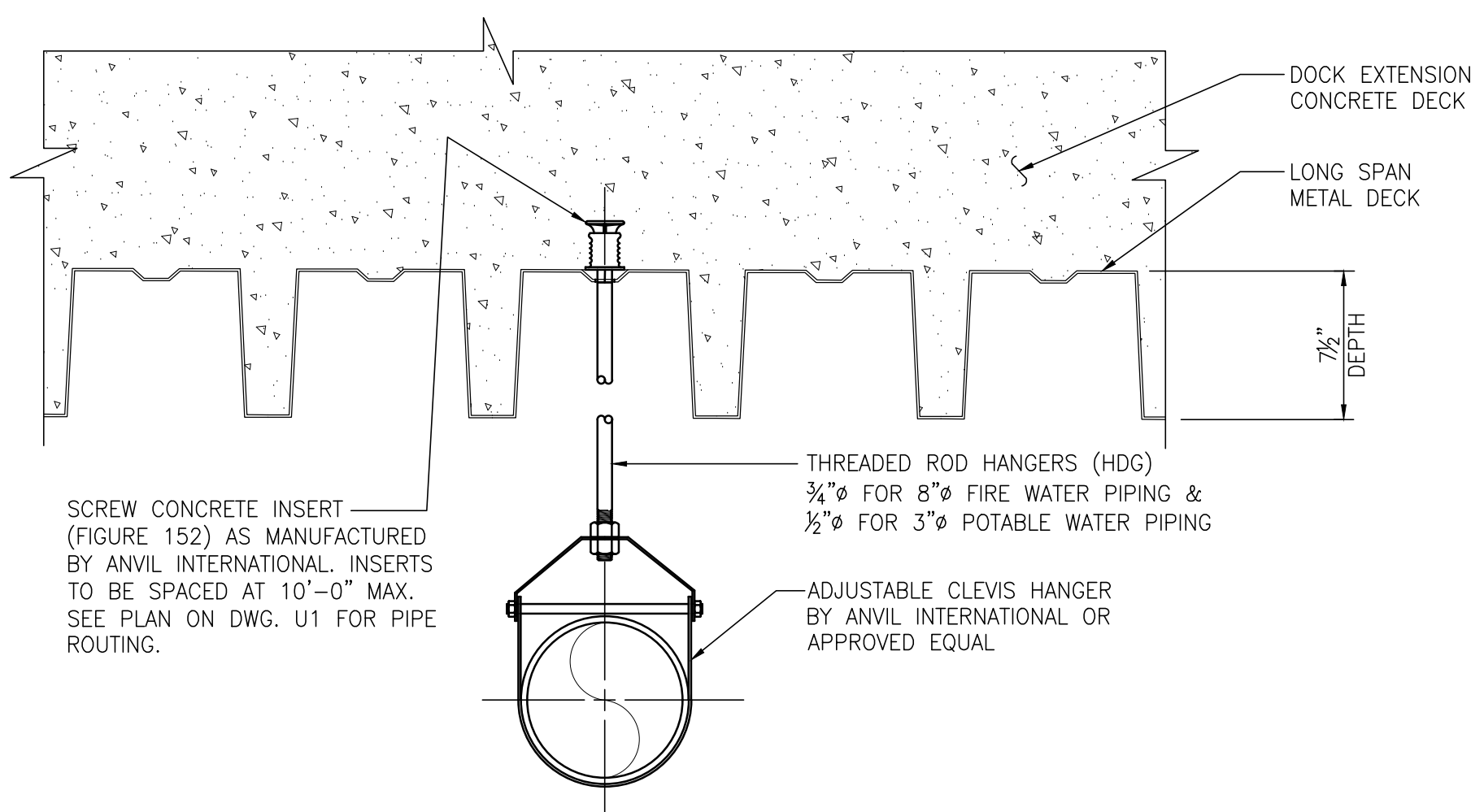


THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.



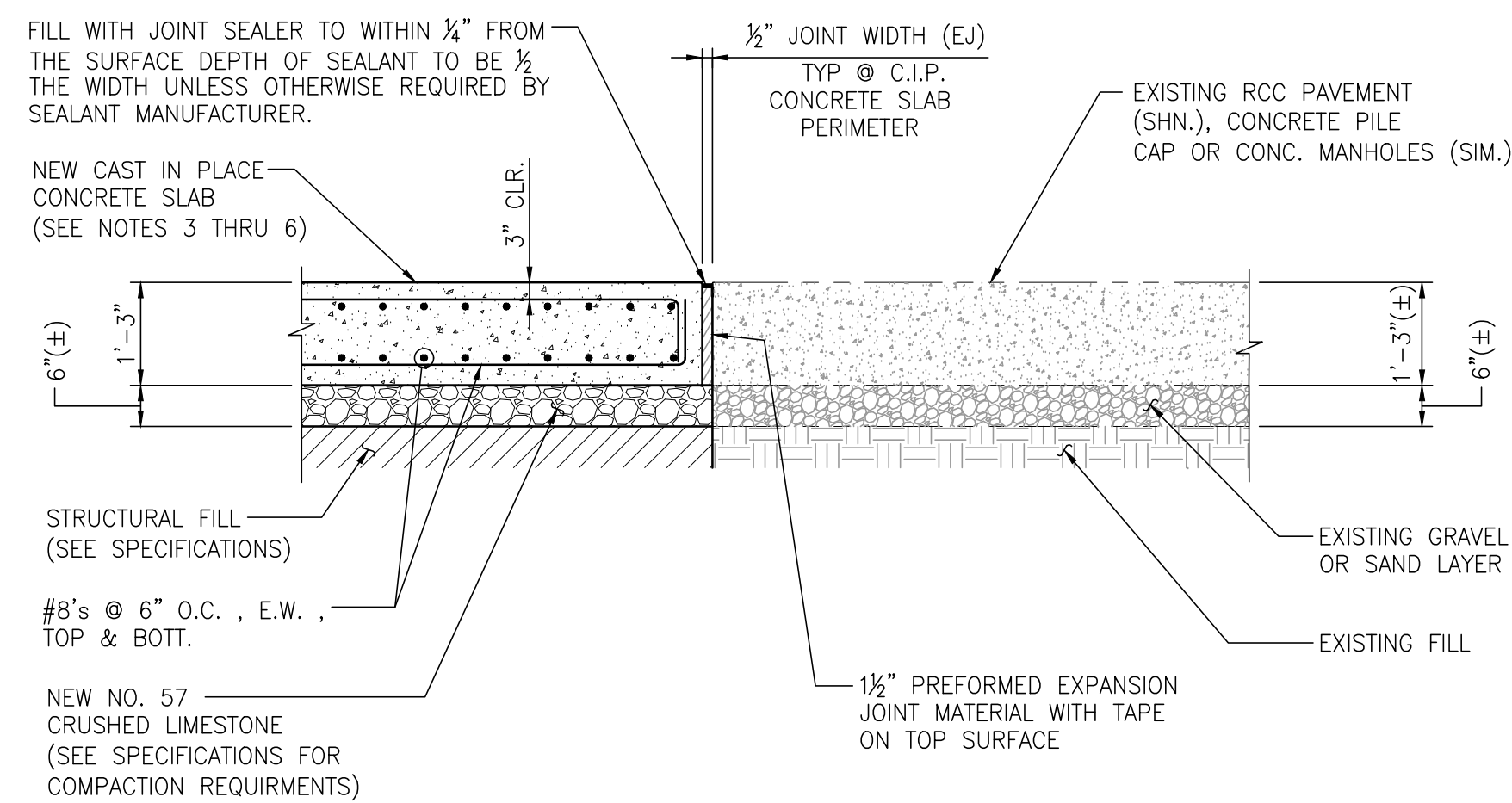
SECTION @ SHEET PILE WALL PENETRATION

1/2"=1'-0"



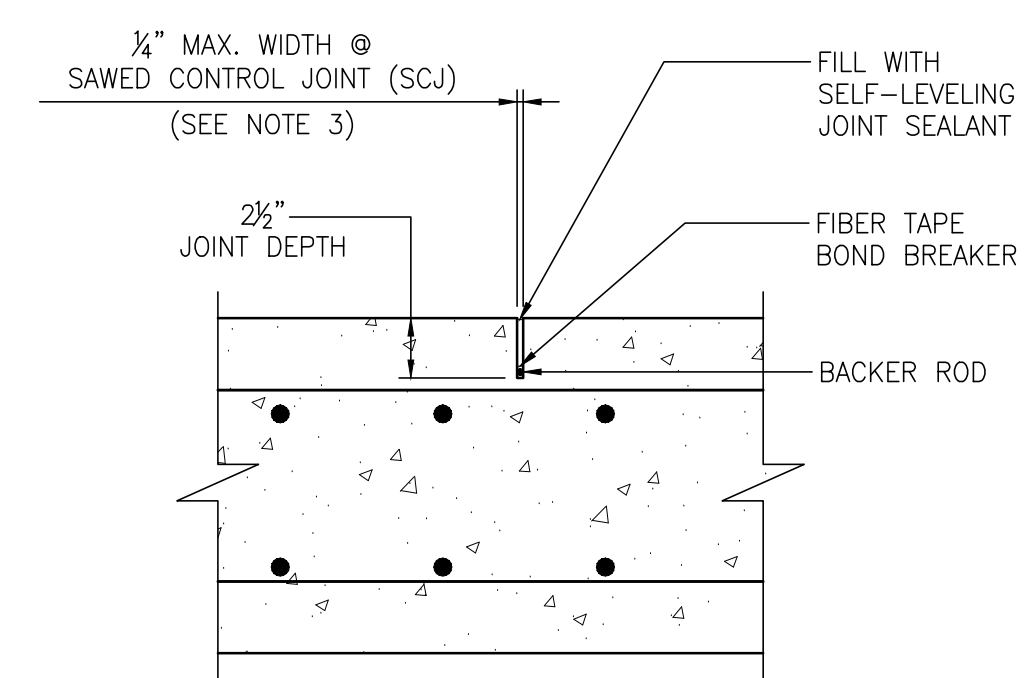
DETAIL

1/2"=1'-0"



SECTION BETWEEN NEW C.I.P. CONCRETE SLAB & EXISTING RCC PAVEMENT

1/2"=1'-0"



SAWED CONTROL JOINT (SCJ)

1/2"=1'-0" LONGITUDINAL OR TRANSVERSE



AS BUILT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA
ASPA PROJECT NO: 10481 ASPA DRAWING NO:

- NOTES**
1. COAT GALVANIZED STEEL PORTION OF BURIED PIPE WITH BITUMASTIC COATING PRIOR TO BACKFILL.
 2. CUT HOLE IN CHANNEL AS REQUIRED TO INSTALL #4 TIES.
 3. SAWED CONTROL JOINTS SHALL BE SPACED IN THE TRANSVERSE/LONGITUDINAL DIRECTIONS OF NEW C.I.P. CONCRETE SLAB AS DESCRIBED IN THE PROJECT SPECIFICATION.
 4. TOP OF CONCRETE ELEVATIONS AT NEW C.I.P. CONCRETE SLAB PERIMETER SHALL MATCH TOP OF CONCRETE ELEVATIONS AT EXISTING RCC PAVEMENT & EXISTING CONCRETE PILE CAP. TOP OF CONCRETE ELEVATIONS INSIDE OF PERIMETER SHALL BE SET AS REQUIRED TO MATCH EXISTING CONDITIONS FOR PROPER DOCK ACCESS AND RUN-OFF/DRAINAGE.
 5. C.I.P. CONCRETE SLAB SHALL HAVE A BROOM FINISH AS DESCRIBED IN THE PROJECT SPECIFICATION.
 6. ALL RE-ENTRANT CORNERS OF NEW C.I.P. CONCRETE SLAB TO RECEIVE (2)-ADDT'L. #6 BARS X 4'-0" LONG TOP & BOTTOM.

| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |

APTIM
PORT SERVICES, LLC

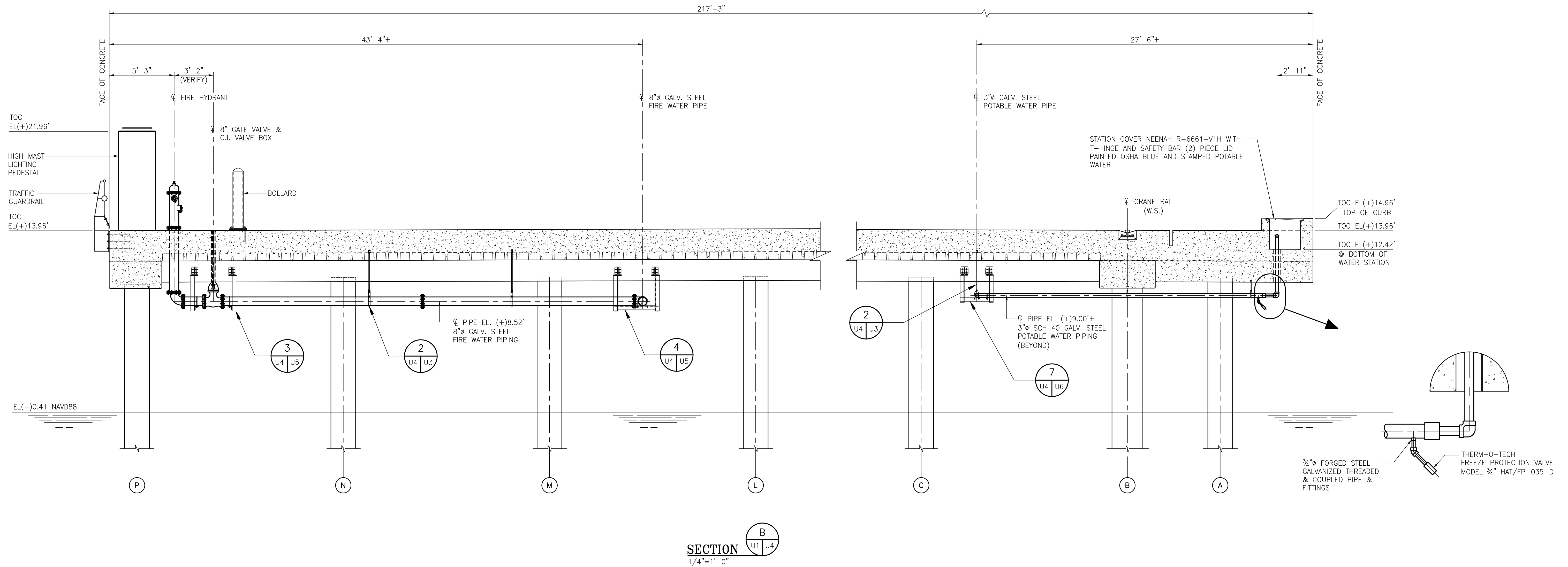
THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIALY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK BEING PERFORMED BY APTIM. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN WORK PERFORMED BY APTIM IS FORBIDDEN EXCEPT BY EXPRESS WRITTEN PERMISSION OF APTIM. IT IS TO BE SAFEGUARDED AGAINST BOTH DELIBERATE AND INADVERTENT DISCLOSURE TO ANY THIRD PARTY.

DRAWN: RST CK'D: HAC APPD: RSG DATE: 1/08/18 SCALE: AS NOTED

APMT DOCK EXTENSION PACKAGE
UTILITY PIPING SECTIONS & DETAILS

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: U3 REV: 1



AS BUILT

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

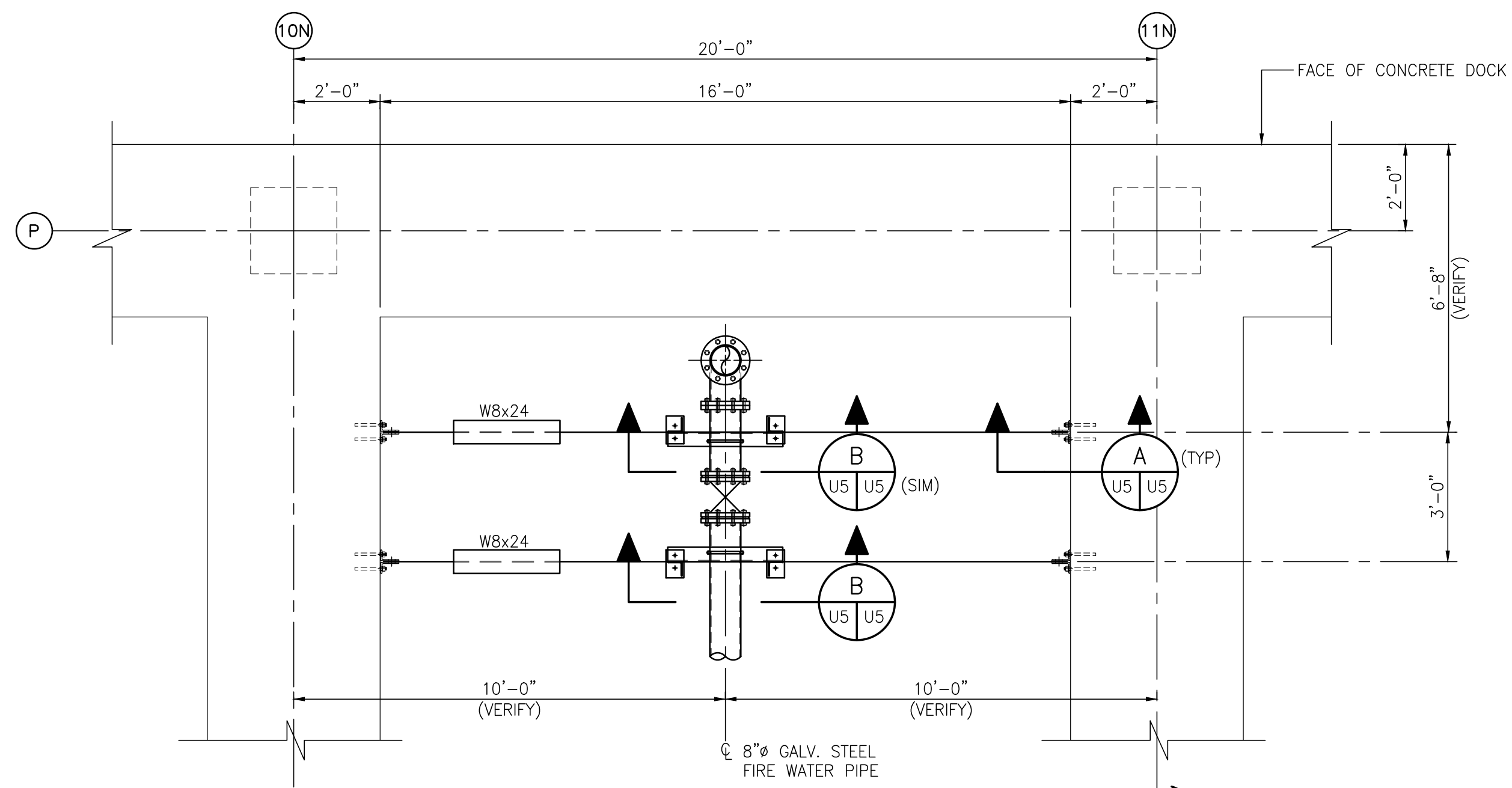


ASPA PROJECT NO: 10481 ASPA DRAWING NO:
APMT DOCK EXTENSION PACKAGE
UTILITY PIPING SECTIONS & DETAILS
FOR: ALABAMA STATE PORT AUTHORITY
PROJECT NO: 4111 DWG NO: U4 REV: 1

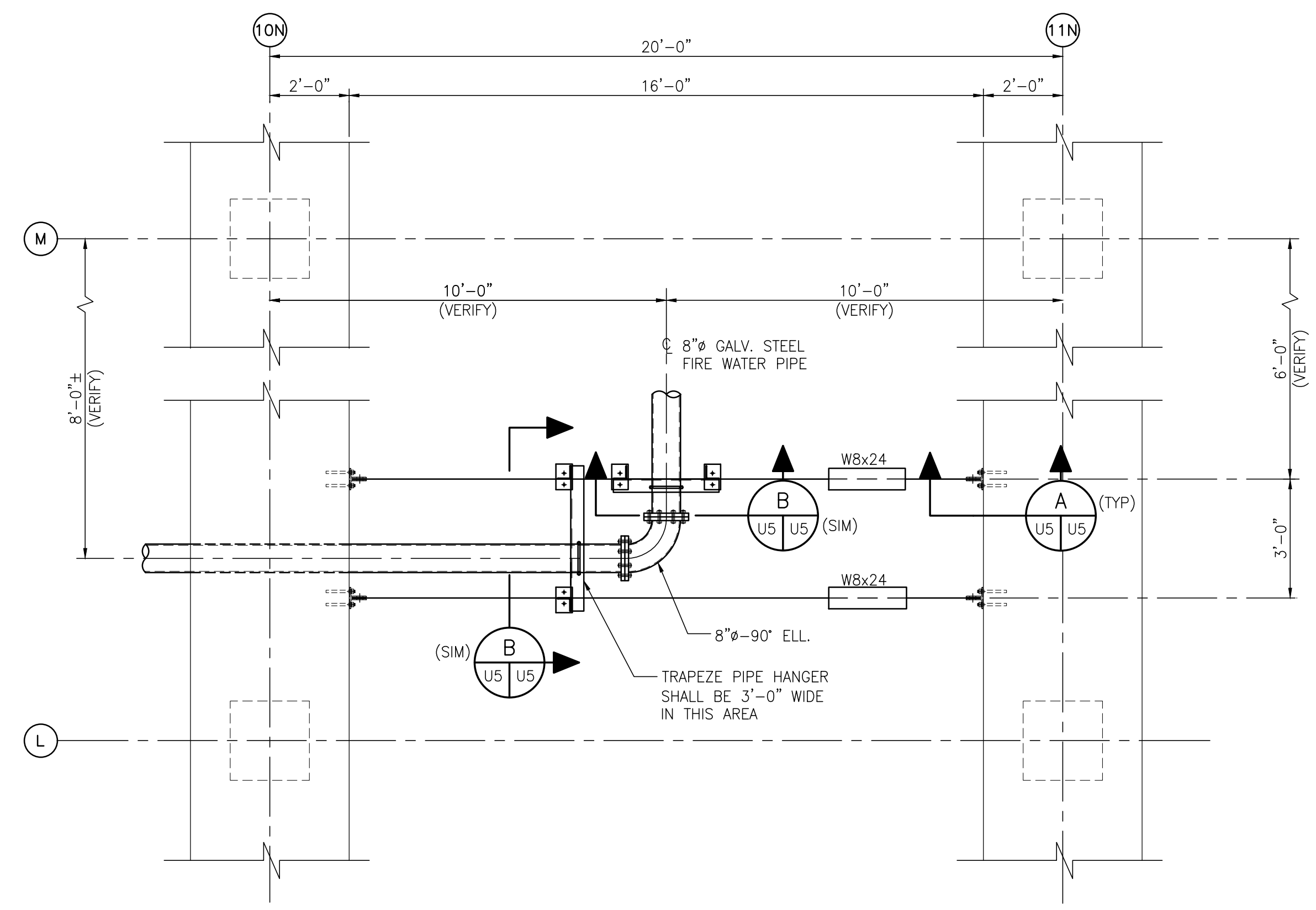
| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 0 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |

THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL 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.

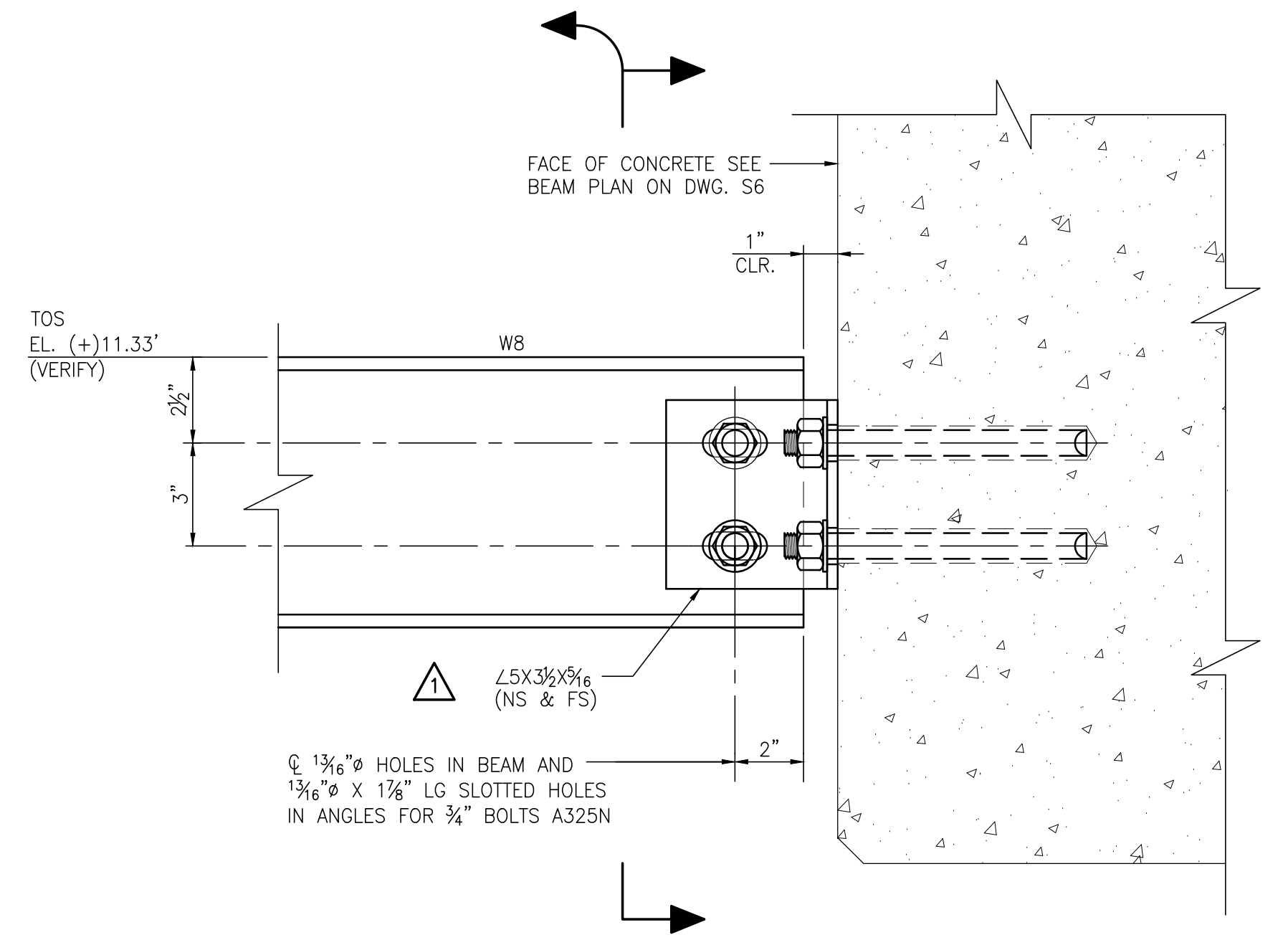
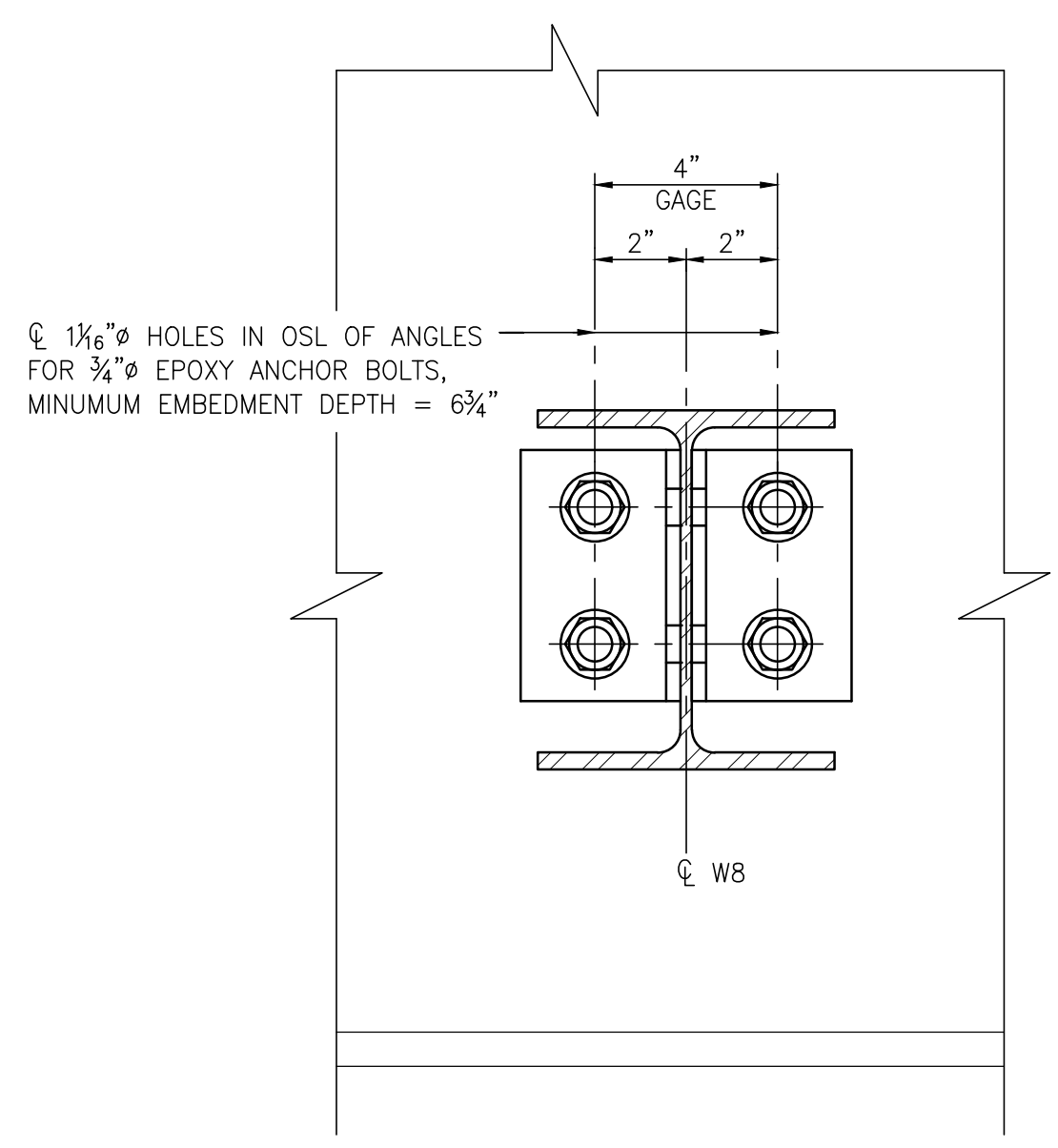
DRAWN: RST CK'D: HAC APPD: RSG DATE: 1/08/18 SCALE: AS NOTED



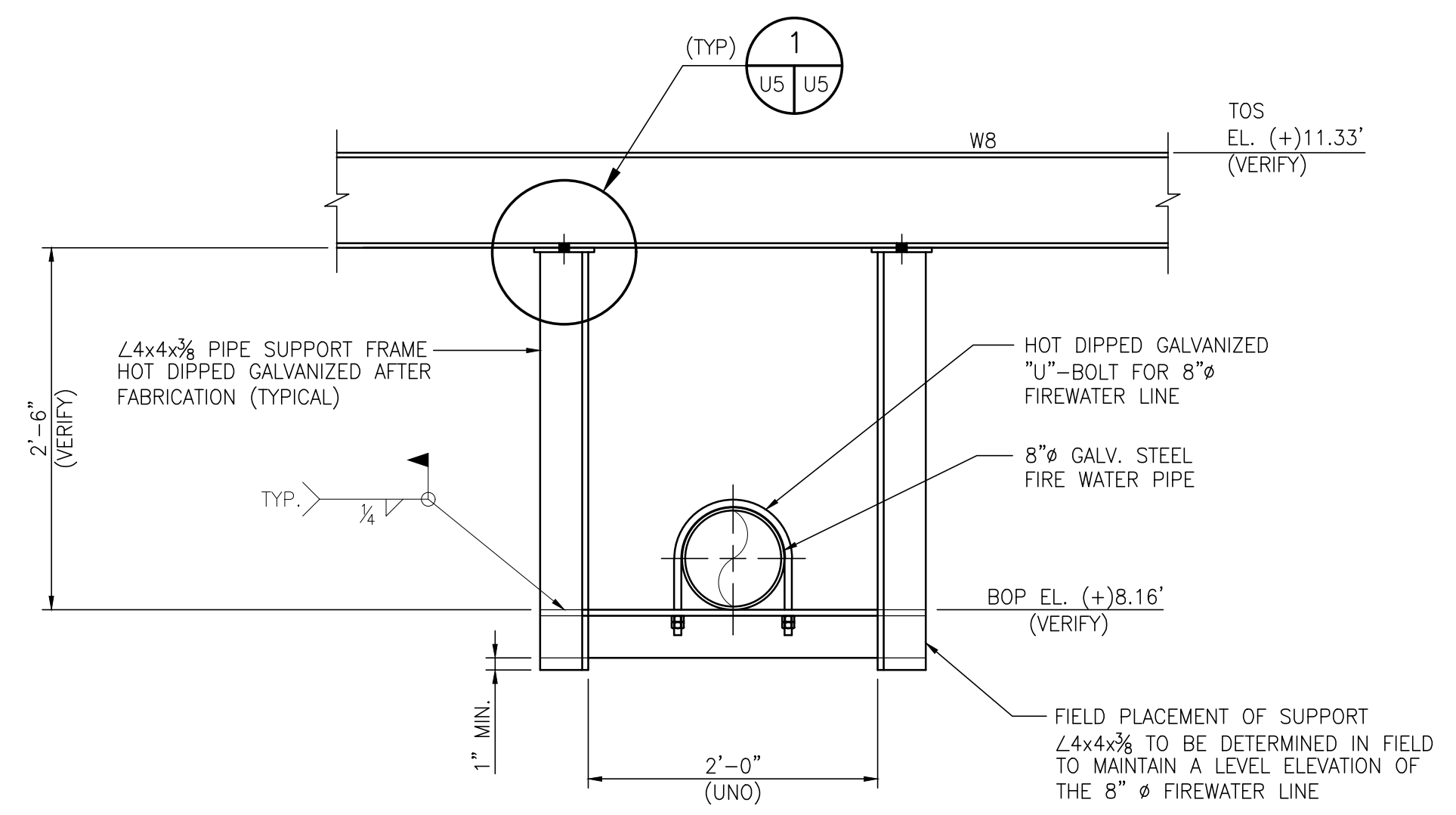
PIPE SUPPORT FRAMING DETAIL
 3/8"=1'-0" * SEE NOTE 7 ON DWG U1



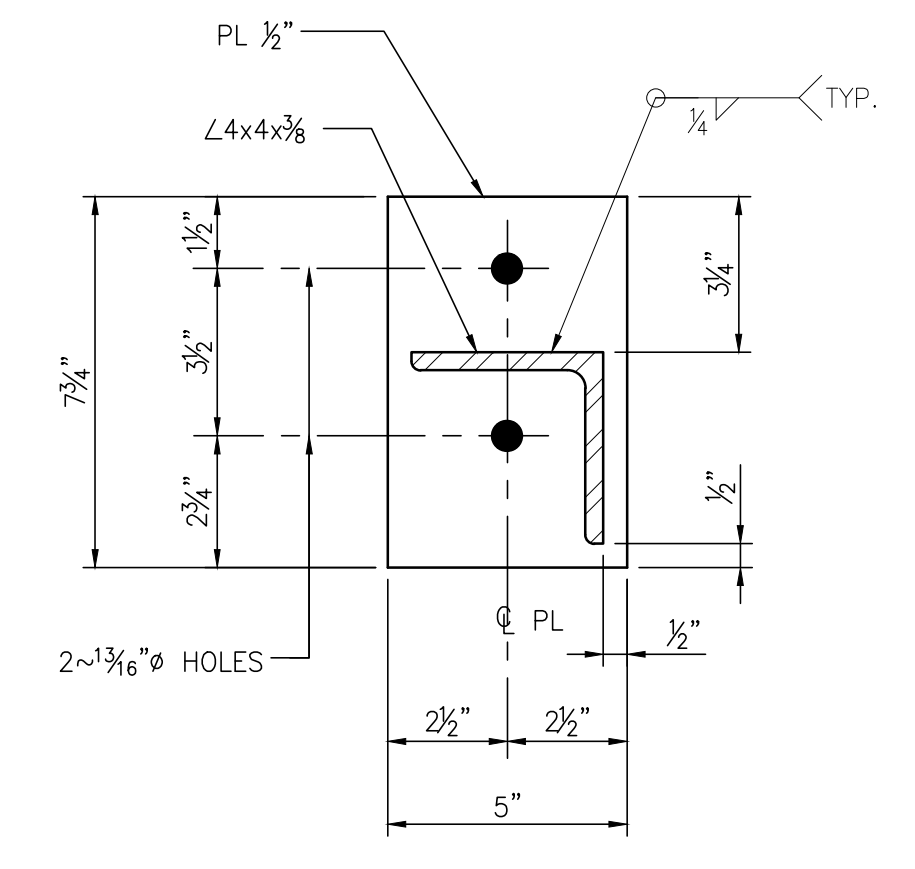
PIPE SUPPORT FRAMING DETAIL
 3/8"=1'-0" * SEE NOTE 7 ON DWG U1



SECTION A
 3"=1'-0"



SECTION B
 1"=1'-0"



DETAIL 1
 3"=1'-0"

AS BUILT

ALABAMA STATE PORT AUTHORITY
 MOBILE ALABAMA

ASPA PROJECT NO: 10481 ASPA DRAWING NO:

APMT DOCK EXTENSION PACKAGE

UTILITY PIPING SECTIONS & DETAILS

FOR: ALABAMA STATE PORT AUTHORITY

PROJECT NO: 4111 DWG NO: U5 REV: 1



THIS DOCUMENT IS THE PROPERTY OF APTIM. IT MAY CONTAIN INFORMATION DESCRIBING TECHNOLOGY OWNED BY APTIM AND DEEMED TO BE COMMERCIAL 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.

| NO. | REVISION | DRAWN | CK'D | APPD | DATE |
|-----|-------------------------|-------|------|------|----------|
| 1 | AS-BUILT | RST | HAC | RSG | 02/28/20 |
| 1 | ISSUED FOR CONSTRUCTION | RST | HAC | RSG | 9/19/18 |