

LETTER OF TRANSMITTAL

TO:

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FROM: Don Tabor, P.E.

DATE: August 28, 2025

PROJ. NO.: G24017

SUBJECT: Addendum No. 1
City of Lookout Mountain, GA
Chickamauga Trail Pump Station Improvements

PAGES: 15 pages to follow

**PLEASE
RESPOND****TO CONFIRM RECEIPT OF THIS ADDENDUM NO. 1
PLEASE SIGN AND EMAIL TO CTI**vvisco@ctiengr.com

Company _____

Signature _____

Title _____

Date _____

ID 863152

ADDENDUM NO. 1

CHICKAMAUGA TRAIL PUMP STATION IMPROVEMENTS

CITY OF LOOKOUT MOUNTAIN, GEORGIA
GEFA LOAN NUMBER: GF2024017
CTI PROJECT NO. G24017-01

I. CONTRACT DOCUMENTS

The following changes shall be made to the Contract Documents:

A. *Section 00 01 10, Table of Contents*

1. DELETE page 00 01 10-1 in its entirety and REPLACE therefor with the attached page 00 01 10-1.1.

B. *Section 00 01 15, List of Drawings*

2. DELETE page 00 01 15-1 in its entirety and REPLACE therefor with the attached page 00 01 15-1.1.

C. *Section 33 09 30, Pump Controls*

1. DELETE page 33 09 30-2 in its entirety and REPLACE therefor with the attached page 33 09 30-2.1.

D. *Section 00 82 00, GEFA SRF – American Iron and Steel Special Conditions and Information*

1. DELETE this section in its entirety.

II. CONTRACT DRAWINGS

The following changes shall be made to the Contract Drawings:

A. *Drawing G-001.1*. DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing G-001.2.

B. *Drawing C-002*. DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing C-002.1.

C. *Drawing C-004*. INSERT the attached Drawing C-004 in its entirety.

D. *Drawing M-001*. DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing M-001.1.

E. *Drawing S-002*. DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing S-002.1.

- F. **Drawing S-004.** DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing S-004.1.
- G. **Drawing S-005.** DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing S-005.1.
- H. **Drawing E-001.** DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing E-001.1.
- I. **Drawing E-002.** DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing E-002.1.
- J. **Drawing E-003.** DELETE the Drawing in its entirety and SUBSTITUTE therefor the attached Drawing E-003.1.

III. REQUESTS FOR BIDDER INFORMATION

The following responses are to Request for Bidder Information Questions/Comments that were submitted to CTI Engineers, Inc.:

1. Division 33 Utilities, Part 2 Products, 2.1 Single Supplier, Line A, Page 33 09 30-2 states "Components shall be from a U.S. manufacturer..." Will there be any exceptions?

Response: Paragraph 2.1A was changed in "I. CONTRACT DOCUMENTS, C. Section 33 09 30, Pump Controls" of this Addendum.

2. Was the electrical service shown on Drawing E-001 a misprint? It shows 6 – 500 kcmil in a 4" conduit. By code, that is not legal.

Response: The conduit size was changed to 5" on Drawing E-001.1 (included in this Addendum).

Date: August 28, 2025

CTI Engineers, Inc.
/s/ Don Tabor, P.E.
Project Manager

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00 45 13 Statement of Bidder's Qualifications
00 45 14 Statement of Equipment
00 45 19 Noncollusion Affidavit of Prime Bidder
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Corporate Certificate
00 45 45 Joint Venture Questionnaire
00 45 50 Statement of License Certificate
00 45 66 Bidder and Proposer Affidavit and Agreement

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00 52 00 Contract
00 55 00 Notice to Proceed
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SECTION 00 01 15

LIST OF DRAWINGS

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1.6 SHOP PAINTING

- A. Clean, shop prime, and shop paint control panels and accessories in accordance with the recommendations of the manufacturer and the requirements of Section 01 60 00 - Materials and Equipment.

1.7 OPERATION AND MAINTENANCE DATA

- A. Submit complete operation and maintenance data on the controls in accordance with the requirements of Section 01 78 23 - Operating and Maintenance Data.

1.8 OPERATION AND MAINTENANCE TRAINING

- A. The Contractor shall provide training for the pump station, controls, and remote telemetry for City employees. Training shall be provided by an authorized factory representative.
- B. The Contractor shall provide a certification that all required training has been completed.

1.9 GUARANTEE

- A. Provide a guarantee against defective equipment and workmanship in accordance with the requirements of Section 01 78 36 - Warranties and Bonds.
- B. The warranty period shall be for two (2) years and shall be non-prorated.

1.10 SPARE PARTS

- A. Provide all necessary spare parts as recommended by the manufacturer of the various equipment components and in accordance with the requirements of Section 01 78 43, Spare Parts.

PART 2 - PRODUCTS

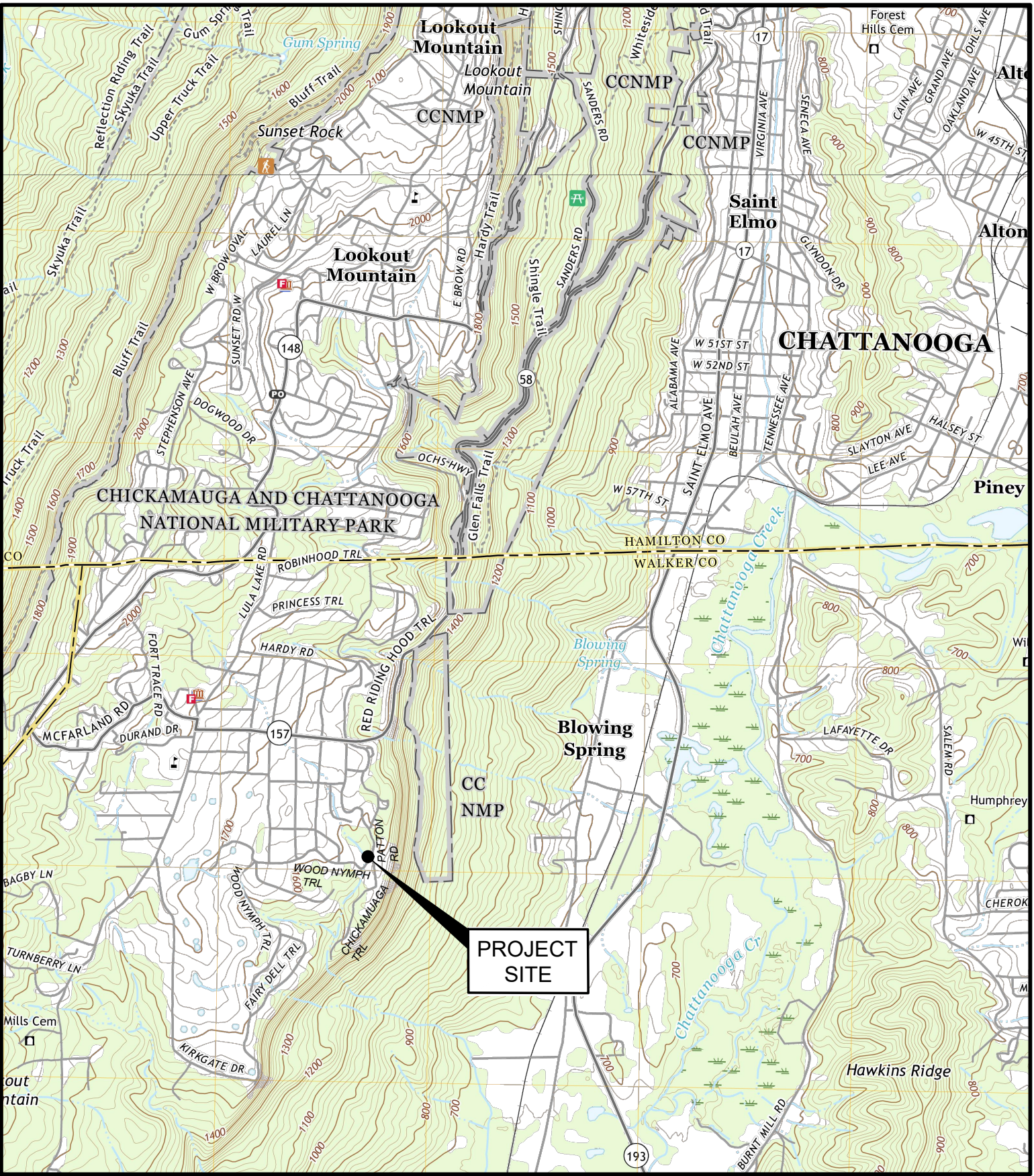
2.1 SINGLE SUPPLIER

- A. A single supplier shall furnish all components of the pump station control system. The supplier's experience must include equipment of comparable type and size in successful operation for not less than three years.

2.2 ACCEPTABLE MANUFACTURERS

- A. The pump control system manufacturer is not specified; however, the Engineer will determine the acceptability of the pump control system selected by the Contractor.

CITY OF LOOKOUT MOUNTAIN GEORGIA
CHICKAMAUGA TRAIL PUMP STATION IMPROVEMENTS
305 PATTEN ROAD
LOOKOUT MOUNTAIN, GEORGIA 30750
DRAWING INDEX



LOCATION MAP
SCALE: 1"= 2000'

CITY OF LOOKOUT MOUNTAIN, GEORGIA
1214 LULA LAKE ROAD
LOOKOUT MOUNTAIN, GEORGIA 30750

MAYOR AND CITY COUNCIL

DAVID S. BENNETT, MAYOR
KEVIN LECKENBY
TONY TOWNS
TAYLOR WATSON
CAROLINE WILLIAMS
ARCH WILLINGHAM, VICE MAYOR

KENNY LEE, CITY MANAGER
BRAD HAVEN, SENIOR OPERATIONS MANAGER
JASON DERRYBERRY, MAINTENANCE SUPERVISOR

REVISION NO.	DATE	REQUESTED BY

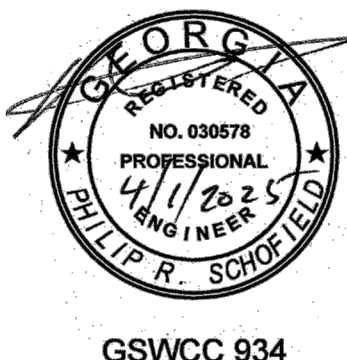
TITLE	DRAWING NO.
TITLE SHEET	G-001.2 1
GENERAL NOTES	G-002.1
PUMP STATION SITE PLAN - EXISTING LAYOUT	C-001
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ES&PC NOTES	ES-001
ESPC PLAN	ES-002
ESPC DETAILS (2 SHEETS)	ES-003 THRU ES-004

PREPARED BY:



Donald D. Tabor, Jr., P.E.
DONALD D. TABOR, P.E.
GEORGIA LICENSE NO. 043756
TELEPHONE: 423-648-8381

04/01/2025
DATE



GSWCC 934

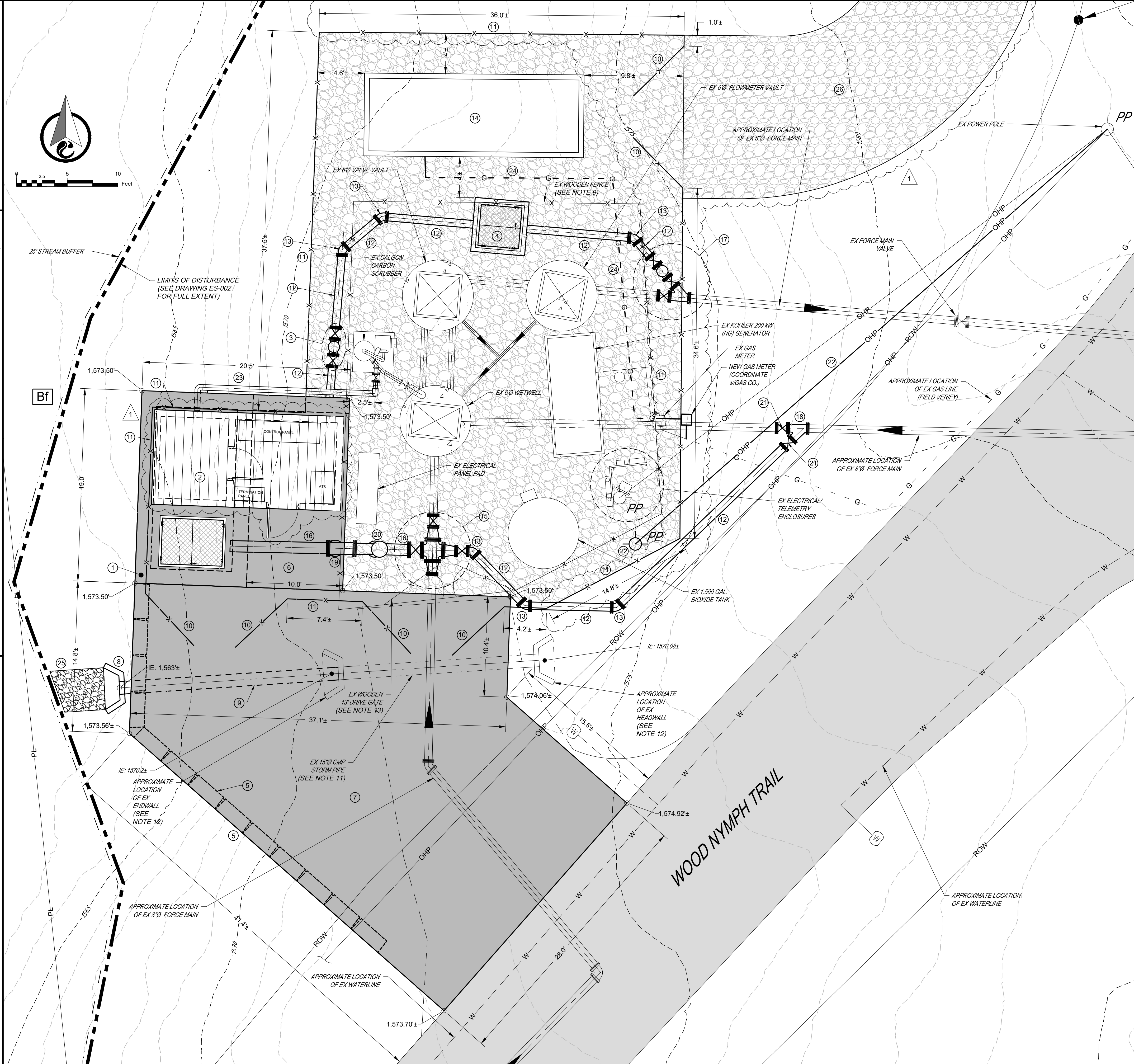
I CERTIFY THAT I HAVE BEEN IN RESPONSIBLE CHARGE OF THE DESIGN OF THIS PROJECT IN ACCORDANCE WITH THE RULES OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS. I FURTHER CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED IN ACCORDANCE WITH CURRENT STANDARD ENGINEERING PRACTICES AND ACCURATELY REFLECT THE DESIGN DEVELOPMENT REPORT (DDR) PREVIOUSLY REVIEWED AND CONCURRED IN BY EPD. I FURTHER CERTIFY THAT THE SYSTEM AS DESIGNED CAN REASONABLY BE EXPECTED TO CONSISTENTLY MEET ALL CURRENT APPLICABLE PERMIT LIMITS, CONDITIONS, AND REGULATORY REQUIREMENTS, PROVIDED THE FACILITY IS CONSTRUCTED AS DESIGNED AND PROPERLY OPERATED AND MAINTAINED.

Donald D. Tabor, Jr., P.E.
DONALD D. TABOR, JR., P.E.

LEGEND	
	EXISTING WOODEN FENCE
	EXISTING OVERHEAD POWER LINE
	EXISTING POWER POLE
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	EXISTING SEWER FORCE MAIN
	EXISTING WATER LINE
	EXISTING GRAVITY SEWER & MANHOLE
	EXISTING UNDERGROUND WATERLINE
	EXISTING GAS LINE
	EXISTING ISOLATION VALVES (SEWER AND/OR WATER)
	EXISTING WATER METER
	EXISTING STORM DRAIN PIPE
	NEW STORM DRAIN PIPE
	NEW SEWER FORCE MAIN
	NEW ISOLATION VALVES (SEWER)
	NEW OVERHEAD POWER LINE
	NEW POWER SERVICE POLE

- DRAWING KEY (IMPROVEMENTS)**
- NEW 8' x 16' PRECAST CONCRETE WETWELL (SEE DRAWING M-001 & STRUCTURAL DRAWINGS).
 - NEW 8' x 16' CONCRETE MASONRY BLOCK BUILDING (SEE DRAWING M-001 & STRUCTURAL DRAWINGS).
 - NEW TEMPORARY BYPASS PUMP CONNECTION ASSEMBLY (SEE DETAIL ON DRAWING M-002).
 - NEW 4' x 4' PRECAST CONCRETE METER VAULT (SEE DETAILS ON DRAWING M-002).
 - NEW STACKED STONE RETAINING WALL (SEE STRUCTURAL DRAWINGS).
 - NEW CAST-IN-PLACE REINFORCED CONCRETE SLAB (SEE STRUCTURAL DRAWINGS).
 - NEW CAST-IN-PLACE REINFORCED CONCRETE DRIVEWAY (SEE STRUCTURAL DRAWINGS).
 - NEW PRECAST CONCRETE HEADWALL/ENDWALLS (SEE NOTE 12 ON THIS DRAWING).
 - NEW 15"Ø RCP DRAIN PIPE (41 ± L.F.).
 - NEW 14' WIDE DUAL-LEAF WOODEN VEHICULAR ACCESS GATES (SEE STRUCTURAL DRAWINGS).
 - NEW 12' HIGH WOODEN FENCE (SEE STRUCTURAL DRAWINGS).
 - NEW 8"Ø DUCTILE IRON FORCE MAIN.
 - NEW 8"Ø MJ DUCTILE IRON 45° BEND.
 - NEW 350 KW, 437 KVA DUAL-FUEL NG/LP BACKUP GENERATOR (SEE ELECTRICAL DRAWINGS).
 - NEW FORCE MAIN CONNECTION ASSEMBLY (SEE DETAIL ON DRAWING M-002).
 - NEW 12"Ø DUCTILE IRON FORCE MAIN (SEE DETAIL ON DRAWING M-001).
 - NEW 8"Ø FORCE MAIN CONNECTION AND BYPASS ASSEMBLY - PHASE 1 (SEE DETAIL ON DRAWING M-002).
 - NEW 8"Ø MJ DUCTILE IRON WYE (w/2 FOSTER ADAPTERS).
 - NEW 12"Ø MJ DUCTILE IRON WYE (SEE DETAIL ON DRAWING M-001).
 - NEW 12"Ø INLINE CLEANOUT ASSEMBLY (SEE DETAIL ON DRAWING M-001).
 - NEW 8"Ø MJ GATE VALVES w/VALVE BOXES (SEE DETAIL ON DRAWING M-002).
 - NEW POWER SERVICE POLE AND SERVICE LINE (SEE ELECTRICAL DRAWINGS).
 - NEW 6"Ø SCHEDULE 10 S.S. VENT PIPE AND ASSOCIATED APPURTENANCES (SEE DRAWING M-001 AND DETAIL ON DRAWING M-003).
 - NEW GAS LINE AND GAS METER (COORDINATE WITH GAS COMPANY).
 - NEW RIPRAP OUTLET PROTECTION (SEE EROSION CONTROL DRAWINGS).
 - NEW PERMANENT GRAVELED ACCESS ROAD (SEE DRAWING C-004)

- NOTES**
- A NEW SERVICE POLE WITH NEW METER, DISCONNECTS, ETC. SHALL BE INSTALLED AT THE LOCATION SHOWN ON THE CONTRACT DRAWINGS. INSTALL THE POLE AND APPURTENANCES IN ACCORDANCE WITH THE DETAIL SHOWN ON CONTRACT DRAWING E-001.
 - ALL NEW CONNECTION ASSEMBLIES AND FITTINGS THAT ARE TO BE INSTALLED IN THE EXISTING FORCE MAIN SEGMENTS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE CONTRACT DRAWINGS. THE OWNER SHALL BE GIVEN AT LEAST 48 HOURS ADVANCE NOTICE PRIOR TO INSTALLING THE CONNECTION ASSEMBLIES AND FITTINGS IN THE EXISTING FORCE MAIN SEGMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTOR REGARDING THE BEST TIME TO DO THE WORK.
 - THE NEW FORCE MAIN SEGMENTS AND PUMP STATION DISCHARGE PIPING SHALL BE CONSTRUCTED OF 8-INCH AND 12-INCH (NOMINAL) DIAMETER DUCTILE IRON AS SHOWN ON THE CONTRACT DRAWINGS AND IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS.
 - THE CREATION OF UNPLANNED HIGH POINTS ALONG THE NEW FORCE MAIN SEGMENTS MUST BE AVOIDED. THE CROWN OF THE FORCE MAIN SHALL BE INSTALLED AT A MINIMUM OF 3-FEET BELOW THE EXISTING SURFACE AND SHALL MATCH THE DEPTHS OF THE EXISTING FORCE MAIN SEGMENTS AT THE TIE-IN LOCATIONS. THE SEWER FORCE MAIN SEGMENTS SHALL BE TESTED AND APPROVED PER THE REQUIREMENTS OF THE SPECIFICATIONS.
 - TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS AND AS SHOWN ON THE CONTRACT DRAWINGS.
 - THE NEW BACKFILL SHALL BE PLACED AND COMPACTED IN LIFTS IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS AND AS SHOWN ON THE CONTRACT DRAWINGS.
 - STONE BACKFILL SHALL BE PLACED AND COMPACTED AROUND THE NEW PUMP STATION AND THE NEW PRECAST CONCRETE STRUCTURES IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS AND AS SHOWN ON THE CONTRACT DRAWINGS.
 - ALL NON-CONCRETE AND NON-GRAVELED DISTURBED AREAS SHALL BE GRADED AND SEEDED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS.
 - THE EXISTING 12-FOOT-HIGH WOODEN FENCING AND GATES SHALL BE REMOVED AND REPLACED WITH NEW 12-FOOT-HIGH WOODEN FENCING AND GATES AT THE LOCATIONS SHOWN ON THIS DRAWING. THE NEW FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS AND AS SHOWN ON THE CONTRACT DRAWINGS.
 - ALL NON-CONCRETE, NON-PAVED, AND NON-GRAVELED DISTURBED AREAS SHALL BE GRADED AND SEEDED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS.
 - THE EXISTING 15" DIAMETER CMP DRAIN PIPE SHALL BE REPLACED AND EXTENDED AS SHOWN WITH A NEW 15" DIAMETER RCP DRAIN PIPE.
 - THE EXISTING HEADWALL AND ENDWALL SHALL BE REMOVED AND REPLACED WITH A NEW PRECAST CONCRETE HEADWALL AND ENDWALL (FOLEY PRODUCTS COMPANY OR APPROVED EQUAL).



THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS, INC. (CTI), WHICH SHALL BE RETAINED BY THE AUTHORITY AND COMMON TO ALL PROJECTS. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO UNAUTHORIZED USE OR REUSE OF THIS DRAWING OR PORTIONS THEREOF.

DESIGN		REVISIONS		BY		DATE	
NO.	DESCRIPTIONS	DDT	DDT	DDT	DDT	DDT	DDT
1	LENGTHENED MASONRY BUILDING, REVISED FENCE LAYOUT, & ADDED ACCESS DRIVE					08/25	

CITY OF LOOKOUT MOUNTAIN GEORGIA CHICKAMAUGA TRAIL PUMP STATION IMPROVEMENTS	DESIGN	DDT	DDT	DDT	DDT
	DRAWN	DDT	CHECKED	DDT	APPROVED
PUMP STATION SITE PLAN - IMPROVEMENTS					

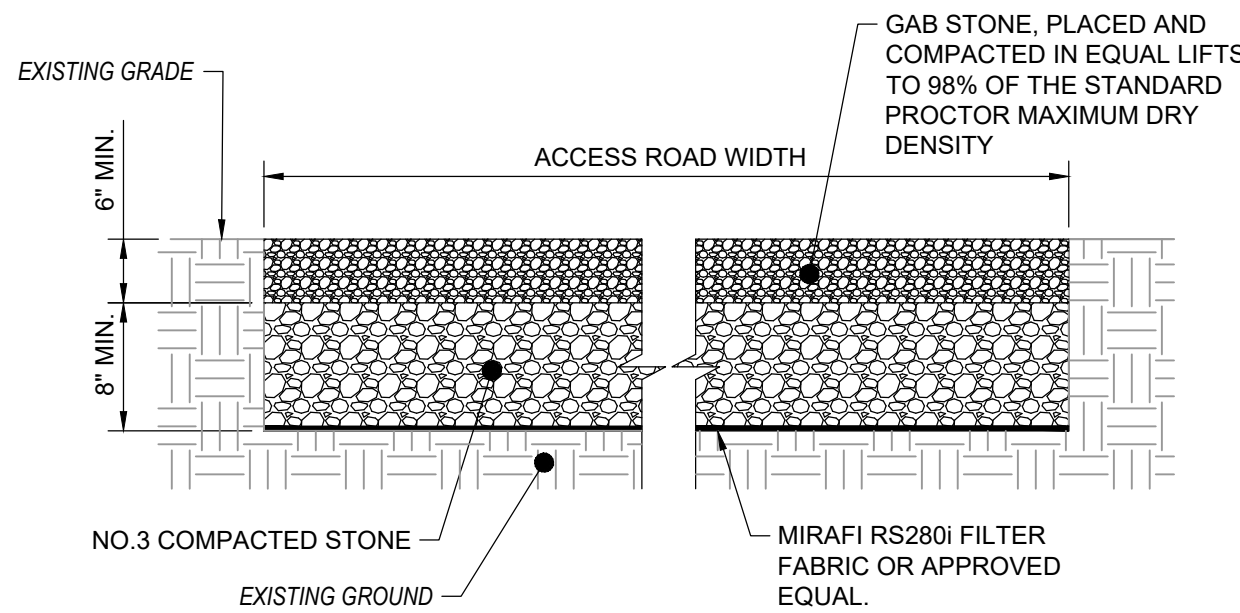
CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613

EDWARD DWYER, P.E.
NO. 043758
PROFESSIONAL ENGINEER
STATE OF GEORGIA
EXPIRES 04/01/2025

JOB NO. G24017-01
ISSUE DATE 04/01/2025
DRAWING NO. C-002.1

LEGEND

- X-X-X EXISTING WOODEN FENCE
OHP EXISTING OVERHEAD POWER LINE
PP EXISTING POWER POLE
PL EXISTING PROPERTY LINE
ROW EXISTING RIGHT-OF-WAY LINE
--- EXISTING SEWER FORCE MAIN
--- EXISTING WATER LINE
--- EXISTING GRAVITY SEWER & MANHOLE
--- EXISTING UNDERGROUND WATERLINE
--- EXISTING GAS LINE
--- EXISTING ISOLATION VALVES (SEWER AND/OR WATER)
--- EXISTING WATER METER
--- EXISTING STORM DRAIN PIPE
--- NEW STORM DRAIN PIPE
--- NEW SEWER FORCE MAIN
--- NEW ISOLATION VALVES (SEWER)
OHP NEW OVERHEAD POWER LINE
PP NEW POWER SERVICE POLE



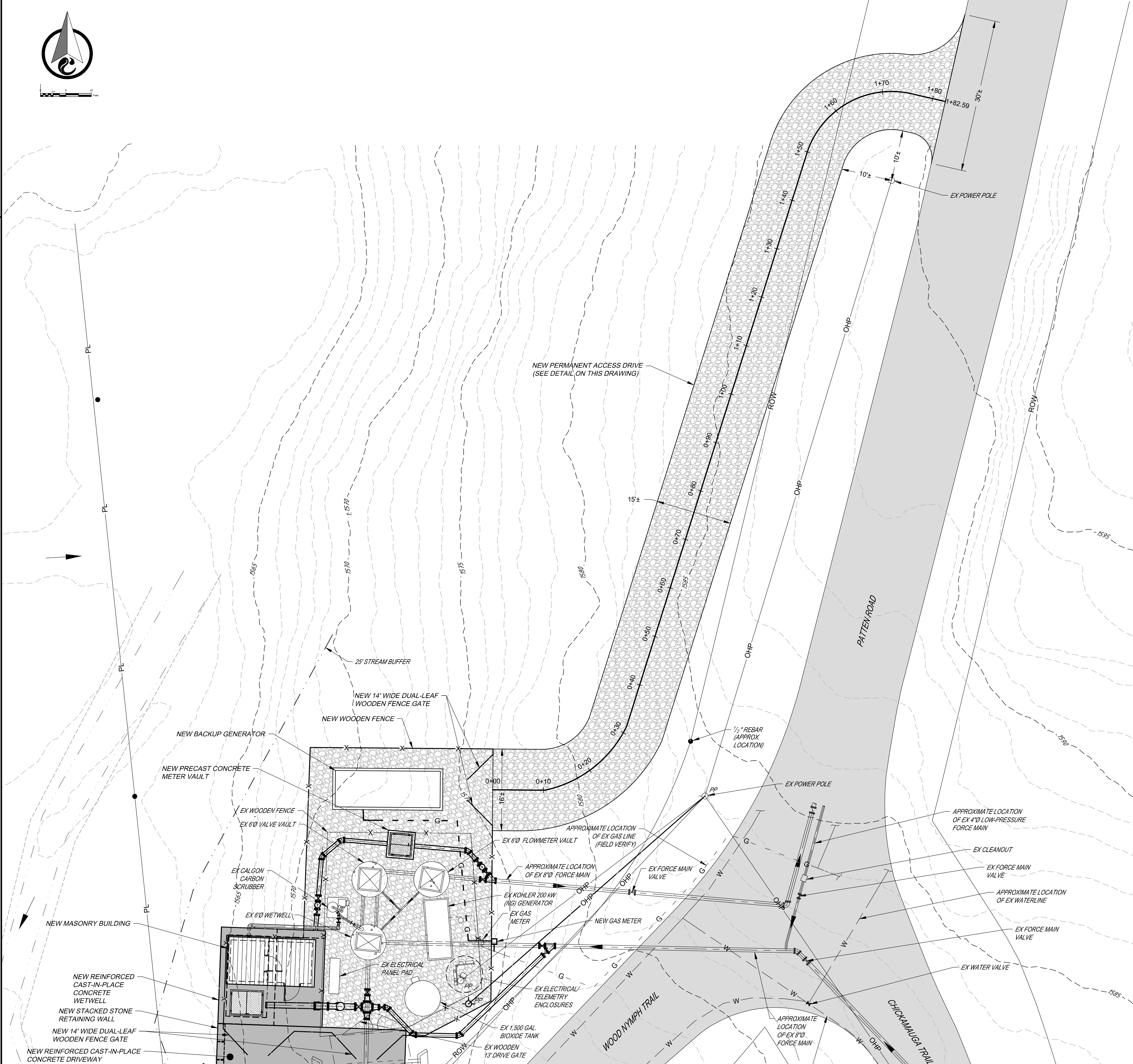
SECTION

NOTES:

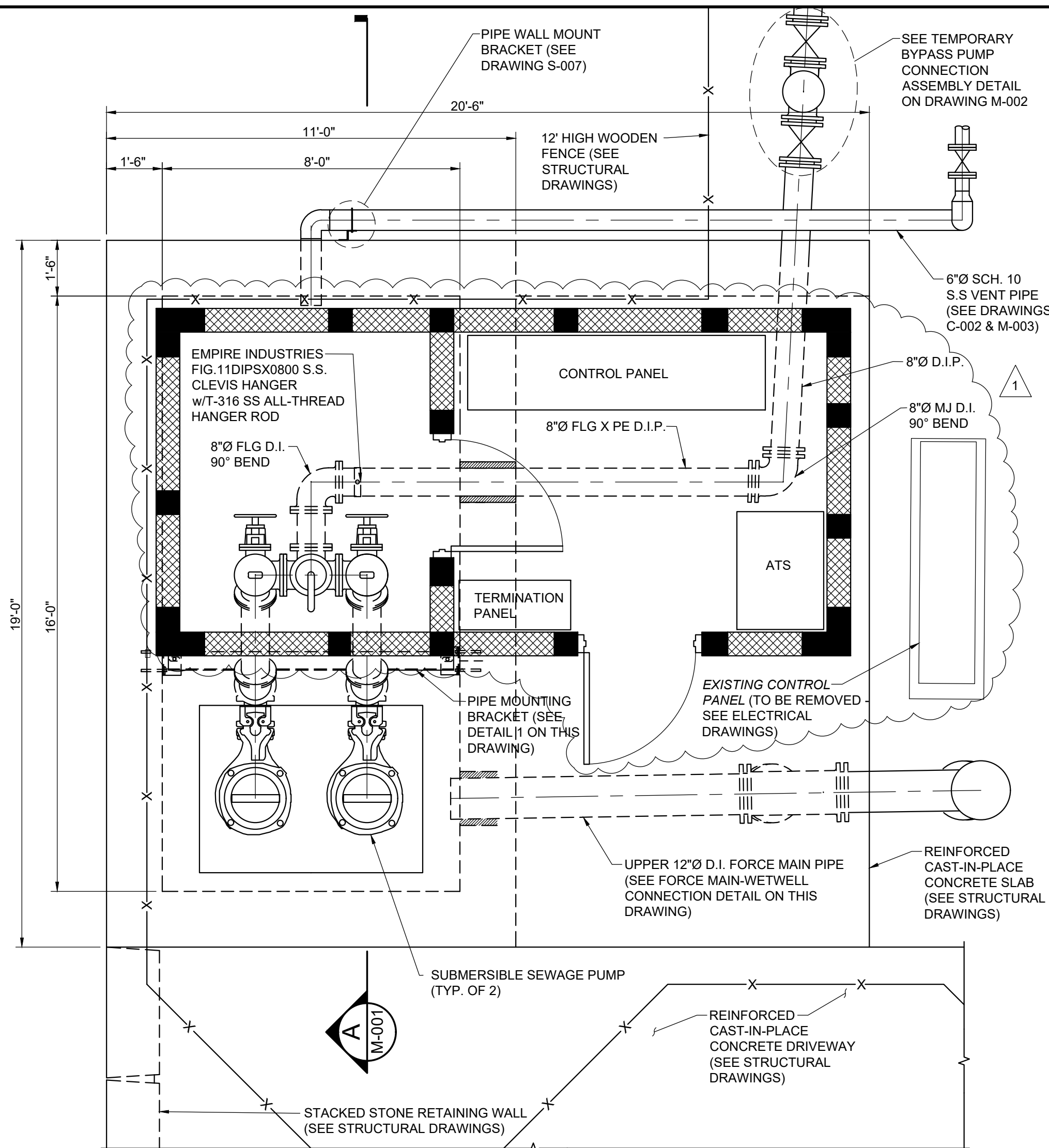
- UNLESS OTHERWISE SHOWN AND/OR NOTED, THE ACCESS DRIVE SHALL BE 15'-WIDE AND SHALL BE FIELD LOCATED.
- ONLY THE TREES NECESSARY FOR THE CONSTRUCTION OF THE ACCESS DRIVE SHALL BE REMOVED. EXCEPT FOR THE ACCESS DRIVE ENTRANCE, A TREE BUFFER SHALL REMAIN BETWEEN THE EXISTING PAVED ROAD AND THE NEW ACCESS DRIVE.
- MIRAFI RS280I FILTER FABRIC OR APPROVED EQUAL SHALL BE PLACED ACROSS THE BOTTOM OF THE EXCAVATED ACCESS ROAD WIDTH.
- NO.3 COMPACTED STONE (8" MINIMUM THICKNESS) SHALL BE PLACED ON TOP OF THE FILTER FABRIC.
- COMPACTED GAB STONE (6" MINIMUM THICKNESS) SHALL BE PLACED ON TOP OF THE NO.3 COMPACTED STONE.

ACCESS DRIVE DETAIL

NOT TO SCALE

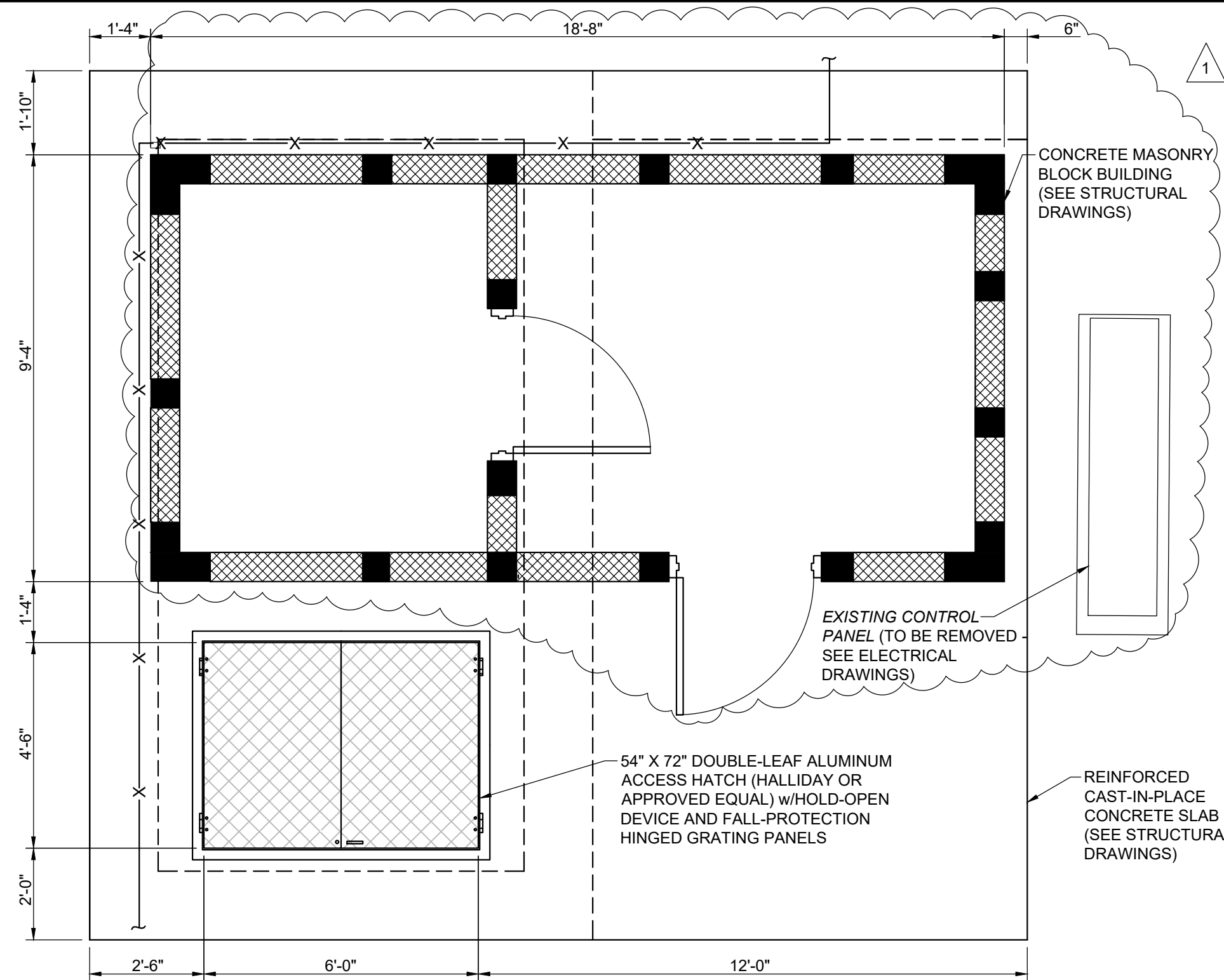


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DESIGN	DDT
DRAWN	DDT
CHECKED	DDT
APPROVED	DDT
NO.	DATE
BY	APPD
REVISIONS	
NO.	DESCRIPTIONS
CITY OF LOOKOUT MOUNTAIN GEORGIA CHICKAMAUGA TRAIL PUMP STATION IMPROVEMENTS	
NEW PERMANENT GRAVELED ACCESS DRIVE	
1122 RIVERFRONT PARKWAY CHATTANOOGA, TN 37402 423-267-7613	
JOB NO. G24017-01	
ISSUE DATE 08/27/2025	
DRAWING NO. C-004	

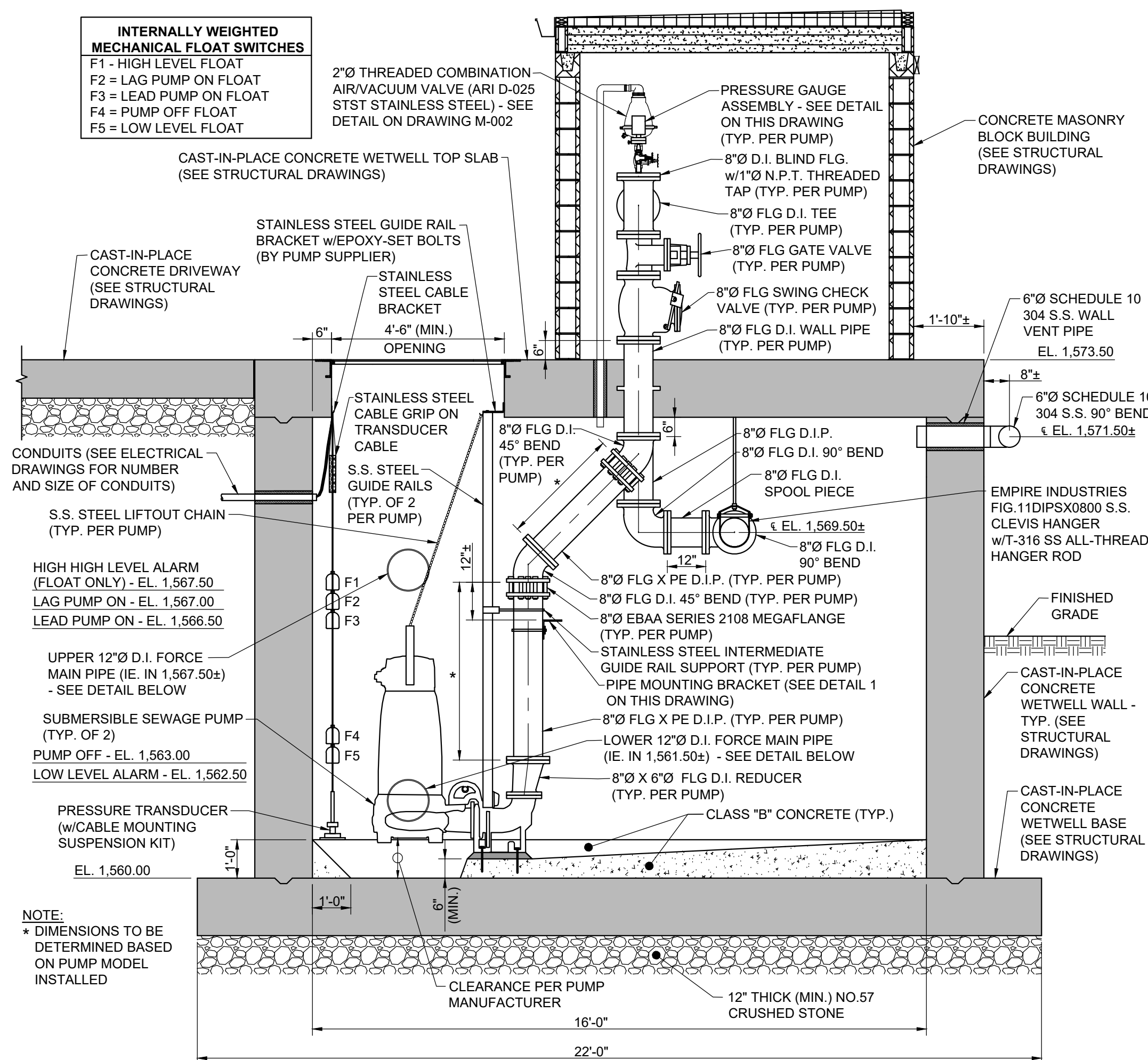


PUMP STATION PLAN

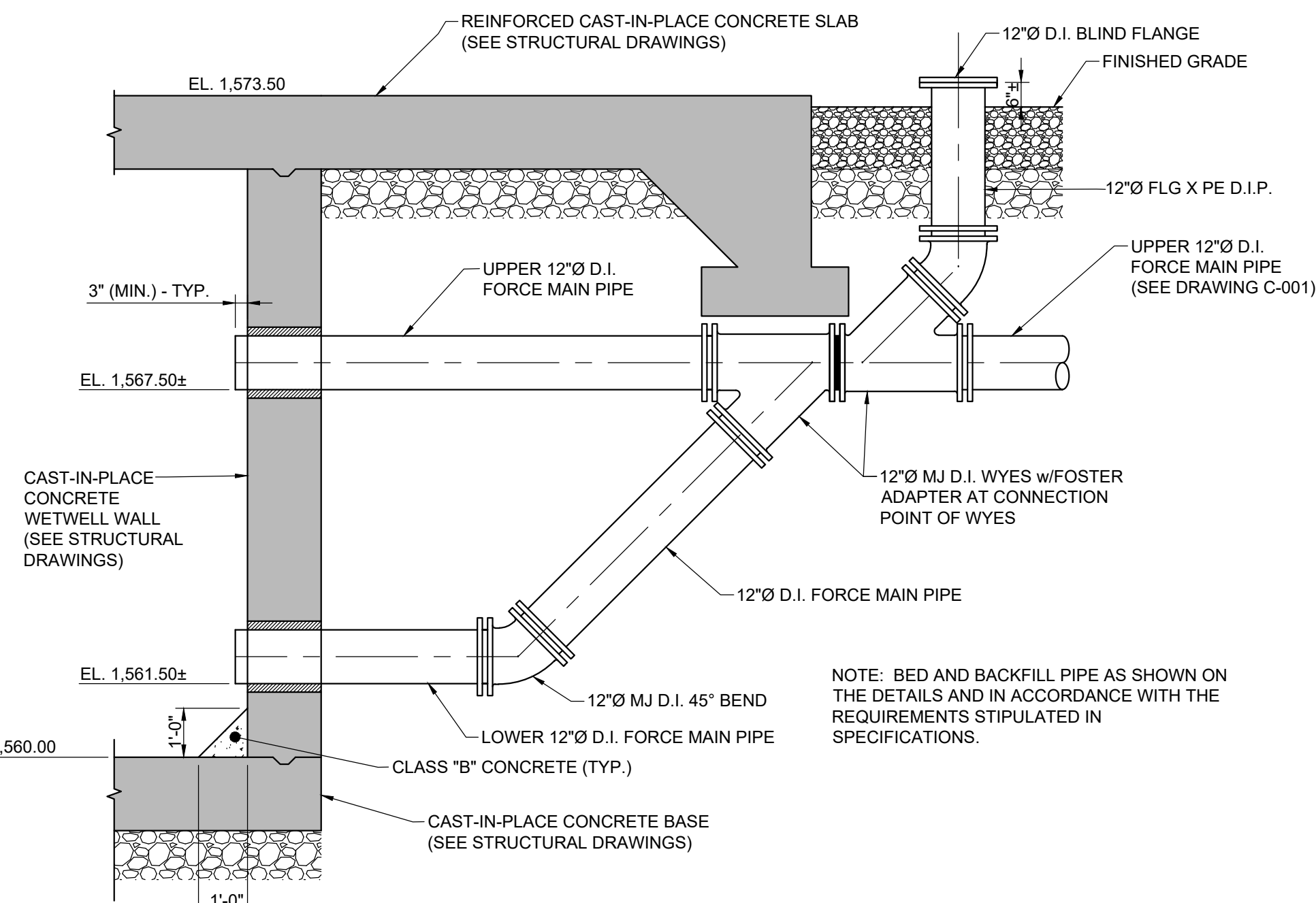
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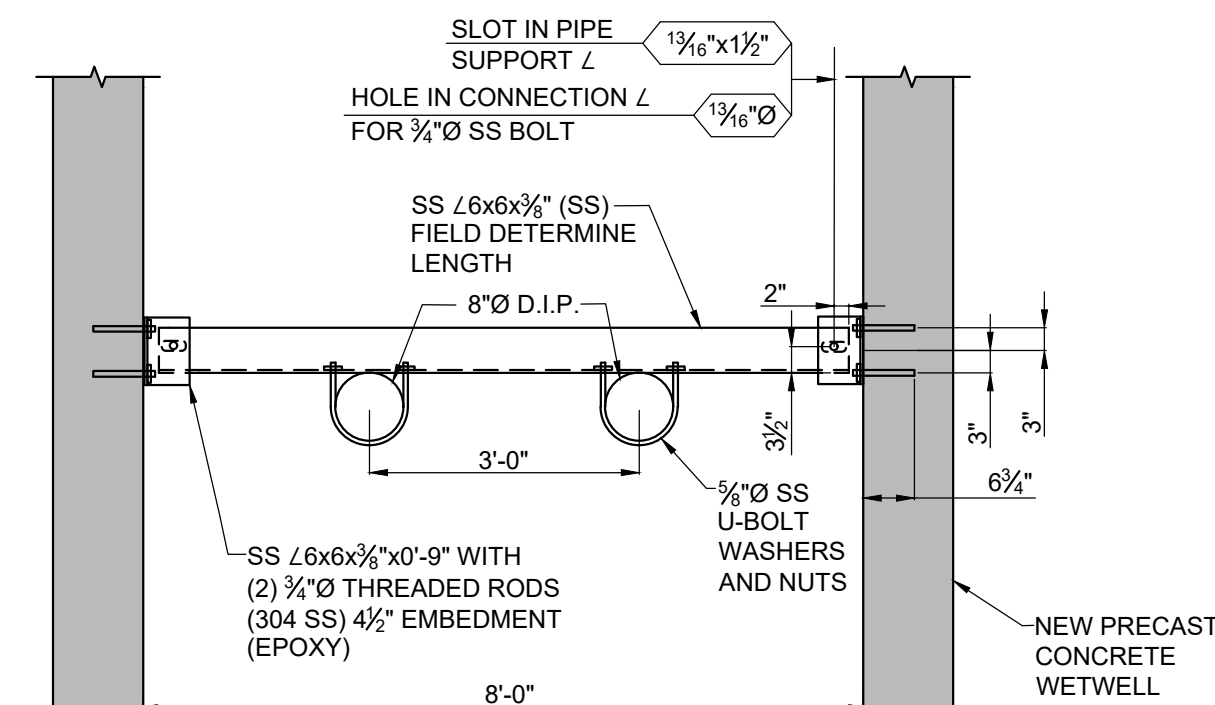
PUMP STATION TOP PLAN
SCALE: $\frac{3}{8}" = 1'-0"$



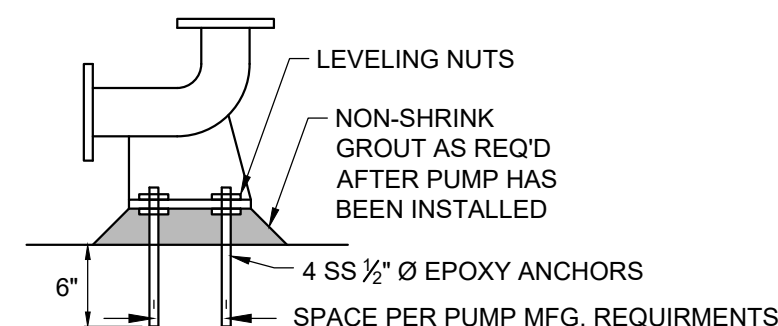
A SECTION
M-001 SCALE: $\frac{3}{8}" = 1'-0"$



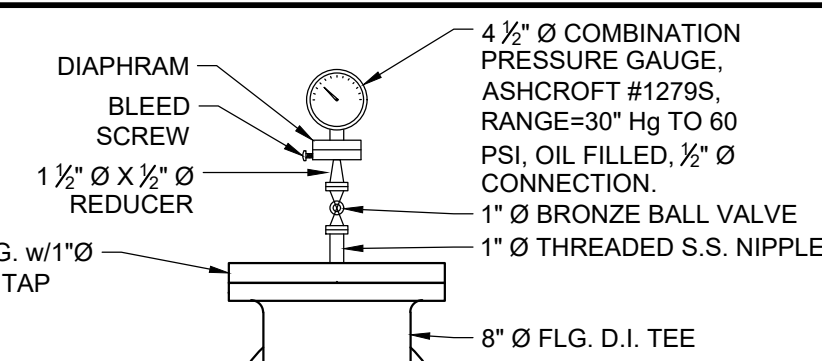
FORCE MAIN - WETWELL CONNECTION DETAIL (TYP.)
N.T.S.



DETAIL 1
N.T.S. M-001



2 TYPICAL BASE ELBOW DETAIL (TYP.)
M.001 N.T.S.



ALL STAINLESS STEEL PIPE AND FITTINGS
PRESSURE GAUGE DETAIL (TYP.)
N.T.S.

NOTES:

1. ALL NEW DUCTILE IRON PIPING SHALL BE CONSTRUCTED OF CLASS 350 DUCTILE IRON IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN SPECIFICATION SECTION 40 15.33 AND AS SHOWN ON THE CONTRACT DRAWINGS. THE INTERIOR OF THE PIPE SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY LINING BY INDURON COATINGS OR APPROVED EQUAL. ANY DAMAGE TO THE INTERIOR COATING INCURRED DURING FIELD CUTTING OF THE NEW DUCTILE IRON PIPE SHALL BE REPAIRED/RE-COATED, AS NECESSARY, WITH THE SAME TYPE OF CERAMIC EPOXY COATING THAT WAS DAMAGED (PER THE COATING MANUFACTURER'S INSTRUCTIONS).
2. ALL DUCTILE IRON PIPE AND FITTINGS BURIED UNDERGROUND SHALL HAVE MECHANICAL-TYPE JOINTS AND A STANDARD BITUMINOUS OUTSIDE COATING CONFORMING TO ANSI A21.6 OR A21.51. THE COLOR OF THE TOP COAT SHALL BE BLACK.
3. ALL NON-FLANGED, MECHANICAL-TYPE JOINT DUCTILE IRON PIPE AND FITTINGS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS, UNLESS OTHERWISE SHOWN. ALL MECHANICAL JOINT PIPING/FITTINGS SHALL BE RESTRAINED WITH EBAA MEGALUG SERIES 1108 OR APPROVED EQUAL AND ALL PUSH-ON JOINTS SHALL BE RESTRAINED WITH EBAA MEGALUG SERIES 1708, U.S. PIPE FIELD LOK 350 GASKETS (WITH U.S. PIPE TYTON PIPE OR FITTINGS), AMERICAN PIPE FAST GRIP GASKETS (WITH AMERICAN DUCTILE IRON FASTITE PIPE), OR APPROVED EQUAL. WHERE SHOWN, EBAA SERIES 2108 MEGAFLANGES (OR APPROVED EQUAL) SHALL BE INSTALLED TO CONNECT TO PLAIN END DUCTILE IRON PIPE TO FLANGED CONNECTIONS.
4. ALL EXPOSED OR IMMERSED DUCTILE IRON PIPE AND FITTINGS SHALL HAVE FLANGE-TYPE JOINTS (UNLESS OTHERWISE SHOWN) AND AN OUTSIDE SHOP (PRIME) COAT OF EPOXY COATING, TNEMEC SERIES N69 HI-BUILD EPOXOLINE II (OR EQUAL) AT 4 TO 6 MILS DFT AND TWO ADDITIONAL COATS OF TNEMEC SERIES N69 AT 4 TO 6 MILS DFT PER COAT. TOTAL MINIMUM DFT OF COATING SYSTEM SHALL BE 12 MILS. TOTAL MAXIMUM DFT SHALL NOT EXCEED 18 MILS. THE COLOR OF THE PRIMER SHOP COATING SHALL BE RED AND THE COLOR OF THE TOP COATS SHALL BE BLACK.
5. THE INTERIOR WALLS, FLOOR, AND CEILING OF THE WETWELL SHALL BE SURFACE PREPARED AND COATED AS FOLLOWS:
 - A. SURFACE PREP: SSPC-SP13/NACE 6 WITH MINIMUM SURFACE PROFILE OF ICRI CSP-SP5.
 - B. 1ST COAT: TNEMEC MORTARCLAD 218 (FILL HOLES/VOIDS $> \frac{1}{16}$ " - $\frac{1}{2}$ " PER LIFT. MAXIMUM $\frac{1}{2}$ " THICKNESS) IN WALL AND CEILING.
 - C. 2ND COAT: TNEMEC PERMA GLAZE SERIES 435 (30-40 MILS DFT, 1 TO 2 COATS). THE COLOR SHALL BE GRAY.
6. CHECK VALVES SHALL BE NON-PACKED, SWING-TYPE CHECK VALVES (WITH WEIGHTED ARM). ALL ISOLATION VALVES SHALL BE GATE VALVES. BOTH VALVE TYPES SHALL MEET THE REQUIREMENTS STIPULATED IN SPECIFICATION SECTION 40 05.23.
7. GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, WASHERS, BRACKETS, ANGLES, CLIPS, ETC. SHALL BE STAINLESS STEEL.
8. ALL PRECAST STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN SPECIFICATION SECTION 03 48.00.
9. UNLESS OTHERWISE NOTED, A LINK SEAL RUBBER BOOT (HELD IN PLACE BY STAINLESS STEEL BANDS) BY KOR-N-SEAL, OR APPROVED EQUAL, SHALL BE INSTALLED IN ALL PIPE PENETRATIONS THROUGH THE WALLS OF THE PRECAST STRUCTURES.
10. THE WETWELL ACCESS OPENING SHALL BE EQUIPPED WITH A PERMANENTLY INSTALLED FALL-PROTECTION HINGED GRATING PANELS THAT PROVIDE CONTINUOUS SAFETY ASSURANCE THE FALL PROTECTION SYSTEM SHALL BE MANUFACTURED BY HALLIDAY PRODUCTS, INC. OR APPROVED EQUAL.

REVISIONS				
NO.	DESCRIPTIONS	DATE	BY	APPD
1	LENGTHENED MASONRY BUILDING	08/25	DDT	DDT

DESIGN	DDT
DRAWN	DDT
CHECKED	DDT
APPROVED	DDT

CITY OF LOOKOUT MOUNTAIN GEORGIA
CHICKAMAUGA TRAIL PUMP STATION

PUMP STATION SECTIONS AND DETAILS



CTI ENGINEERS
1122 RIVERFRONT PARKWAY
CHATTANOOGA, TN 37402
423-267-7613



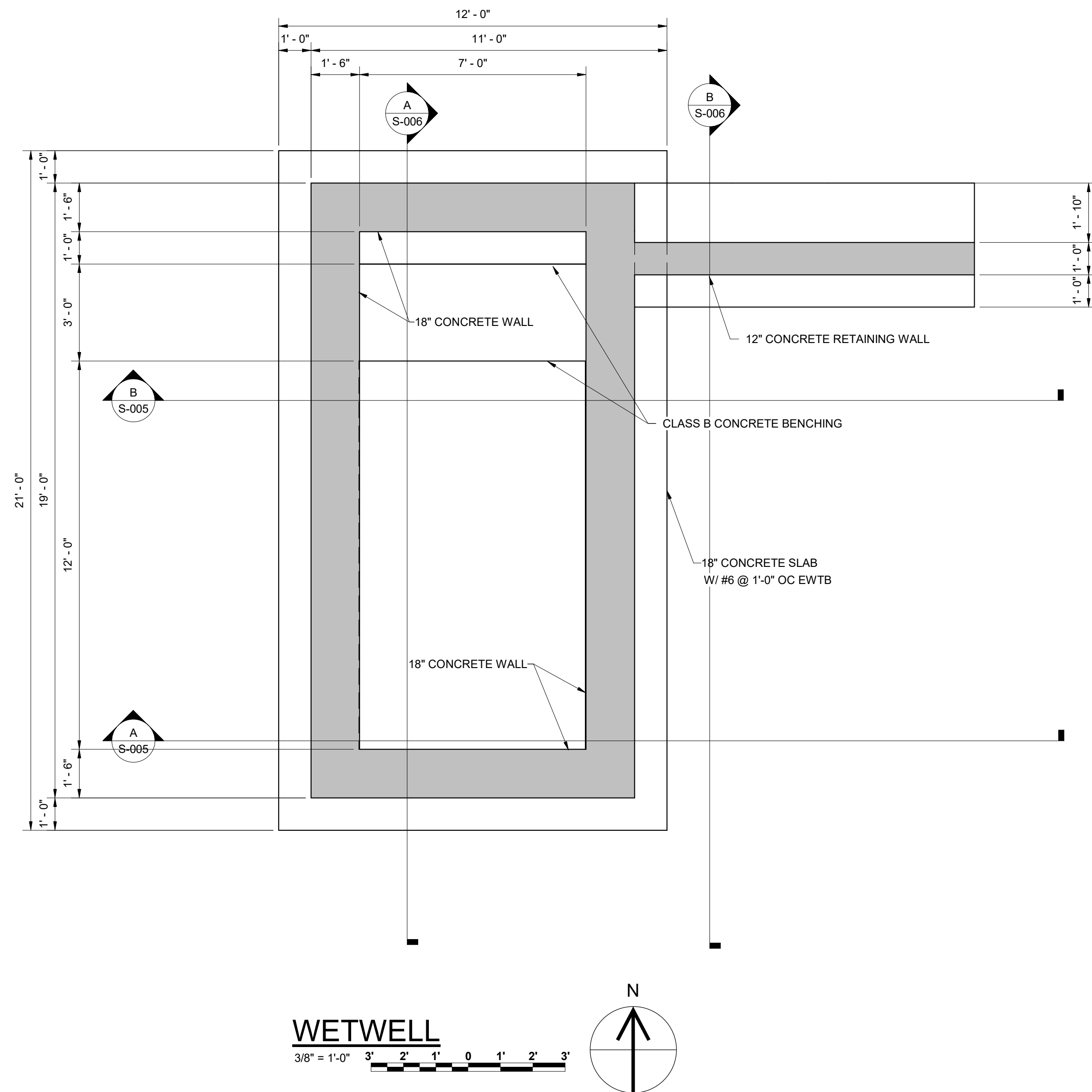
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624017-01

ISSUE DATE

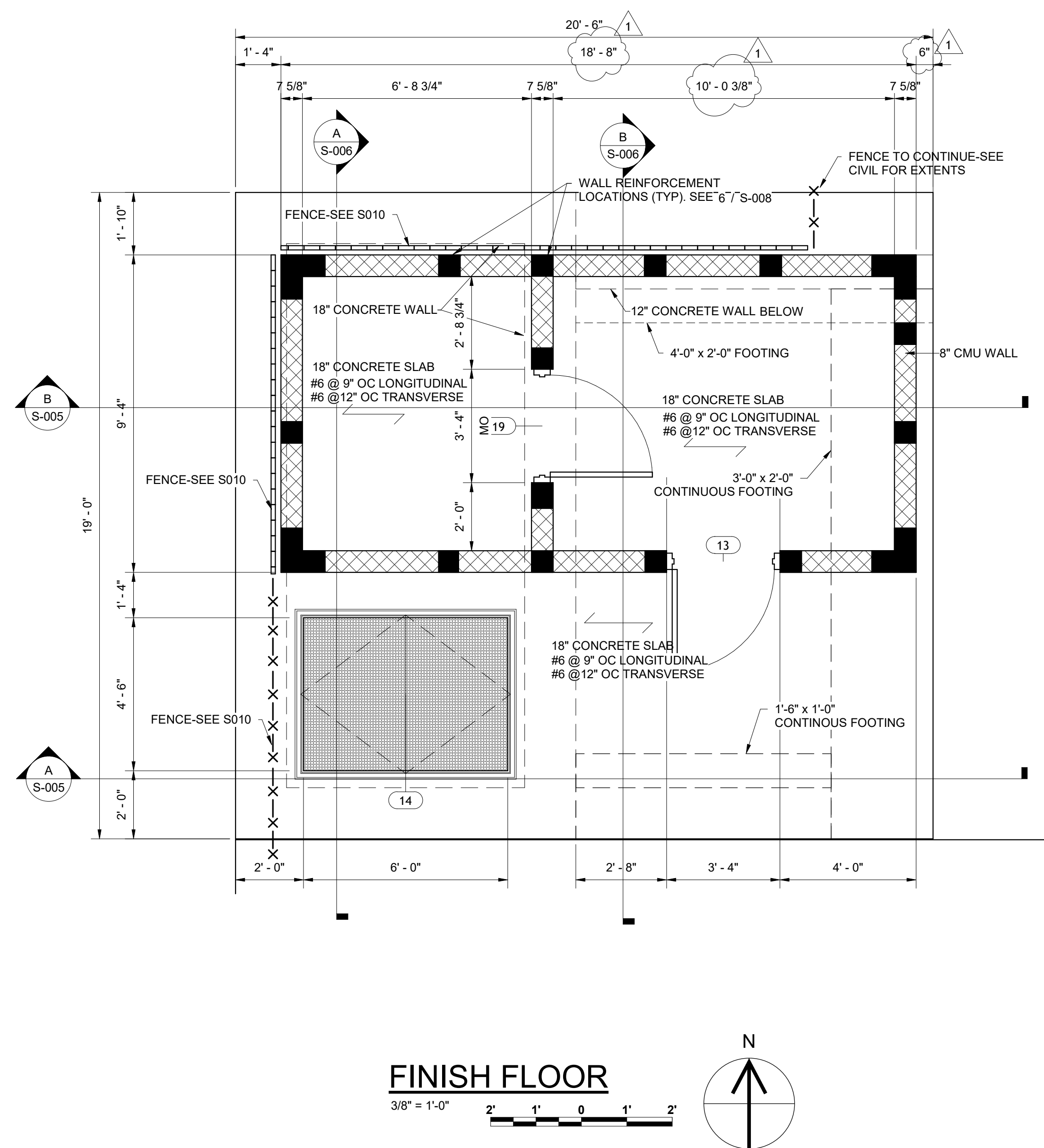
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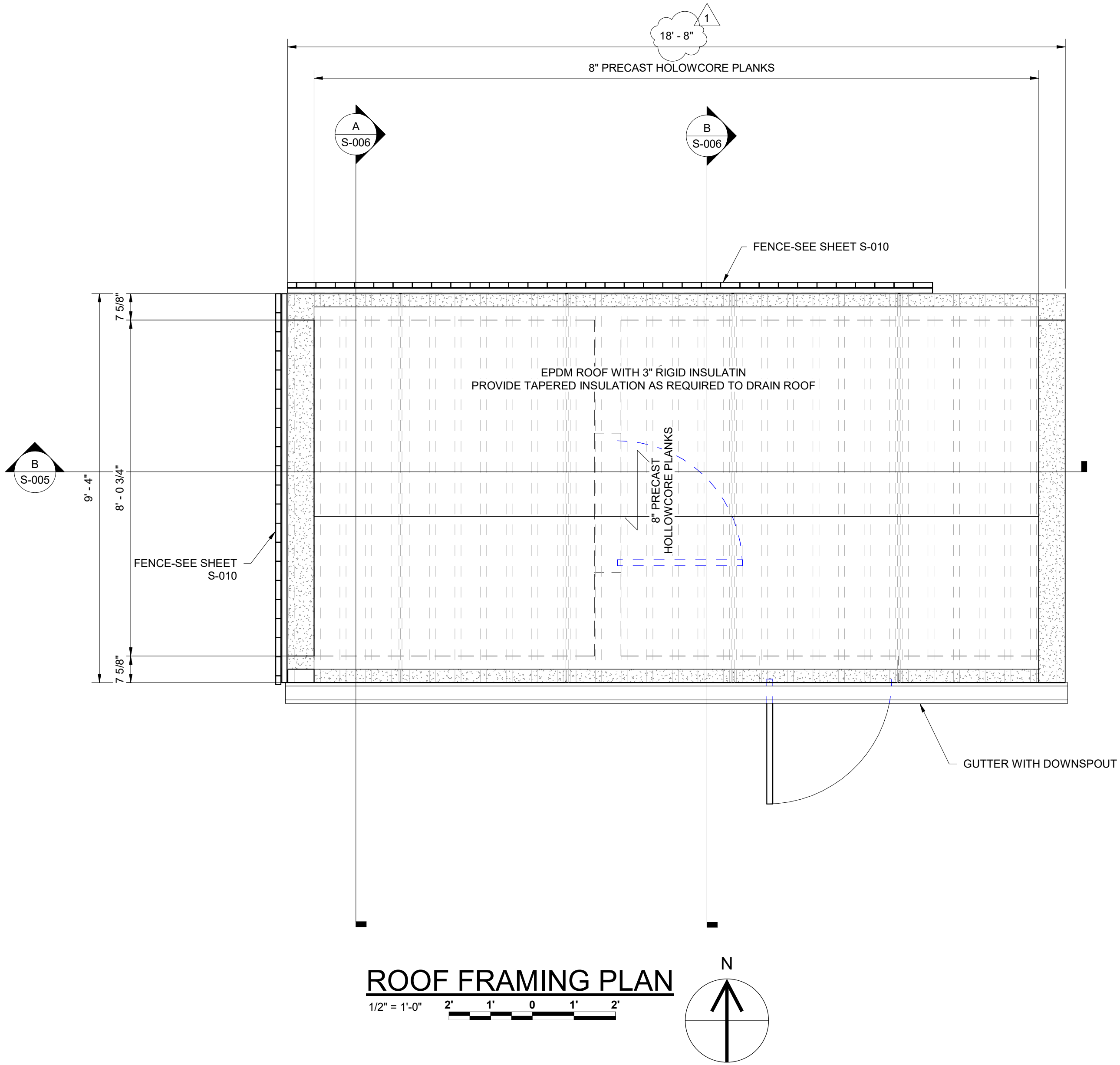
M-001.1



- NOTES:**
1. MO INDICATES MASONRY OPENING
 2. COORDINATE FLOOR AND WALL PENETRATIONS WITH MECHANICAL, HVAC AND ELECTRICAL DRAWINGS
 3. PIPING AND EQUIPMENT SHOWN FOR COORDINATION PURPOSES ONLY. CONSULT ALL OTHER TRADE DRAWINGS
 4. ALL INTERIOR WALLS TO BE PAINTED. CONSULT WITH OWNER FOR COLOR.

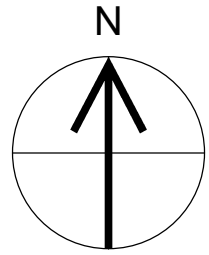


 CTIENGINEERS 1122 RIVERFRONT PARKWAY CHATTANOOGA, TN 37402 423-267-7613	CITY OF LOOKOUT MOUNTAIN GEORGIA CHICKAMAUGA TRAIL PUMP STATION IMPROVEMENTS	DESIGNED JBM DRAWN JBM	REVISIONS				
			NO.	DESCRIPTIONS	DATE	BY	APP'D
			1	LENGTHENED MASONRY BUILDING	09/25	JBM	KGP
	WETWELL & FOUNDATION PLAN	CHECKED KGP					
		APPROVED KGP/D					
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JOB NO. G24017-01							
ISSUE DATE 03/28/2025							
DRAWING NO. S-002.1							



ROOF FRAMING PLAN

1/2" = 1'-0"



CITY OF LOOKOUT MOUNTAIN GEORGIA CHICKAMAUGA TRAIL PUMP STATION IMPROVEMENTS		DESIGNED JBM		REVISIONS				THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS, INC. (CTI), WHICH SHALL BE DEEMED THE AUTHOR AND WHICH SHALL BE USED BY THE USER UNDER THE USER'S OWN RISK. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES OF ANY UNAUTHORIZED REUSE OF THIS DRAWING OR PORTIONS THEREOF.			
ROOF FRMAING PLAN		DRAWN JBM	BY JBM	DATE 08/25	DESCRIPTIONS	NO.	1	LENGTHENED MASONRY BUILDING	BY JBM	APPROVED KGP	THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS, INC. (CTI), WHICH SHALL BE DEEMED THE AUTHOR AND WHICH SHALL BE USED BY THE USER UNDER THE USER'S OWN RISK. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES OF ANY UNAUTHORIZED REUSE OF THIS DRAWING OR PORTIONS THEREOF.



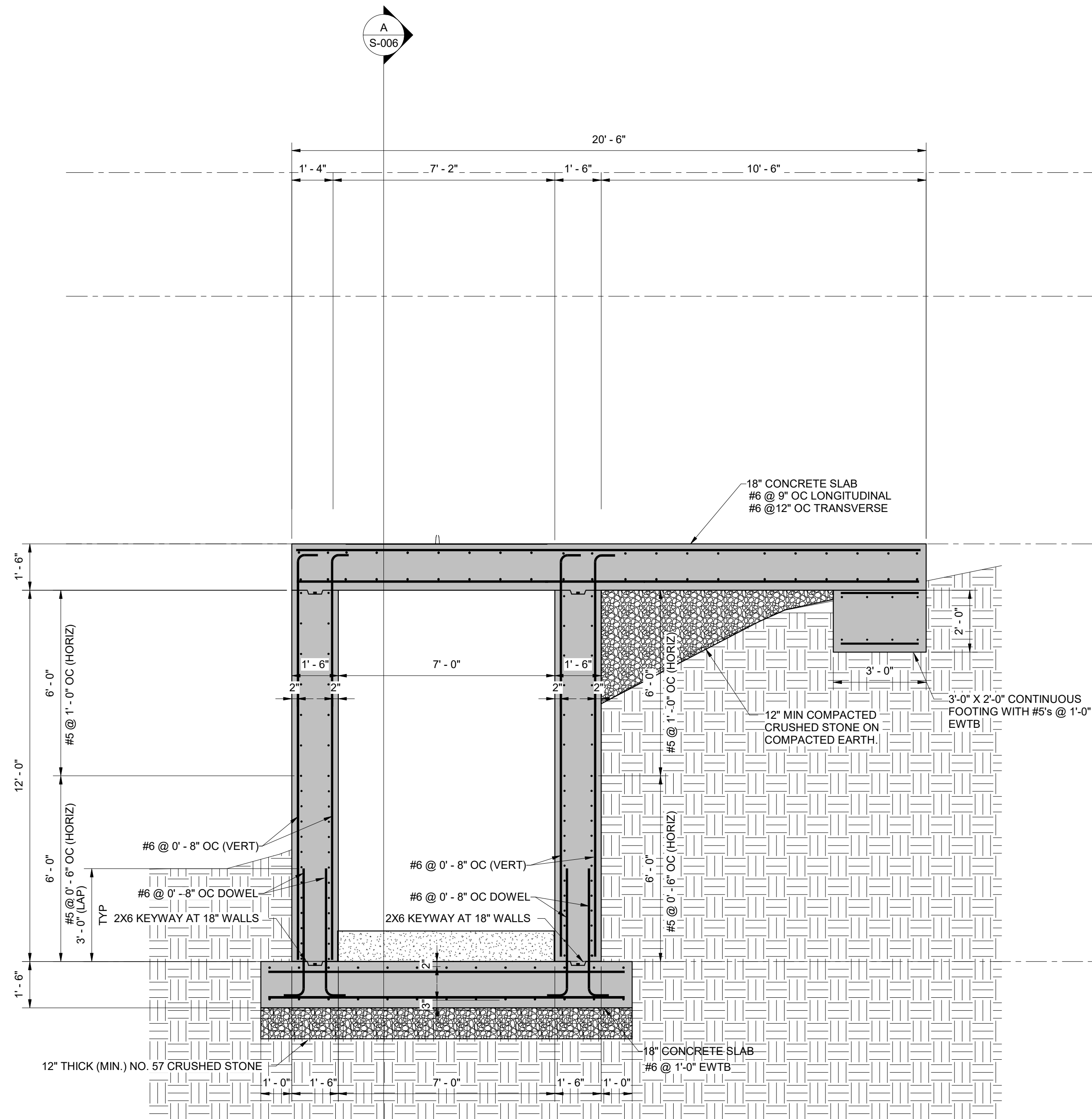
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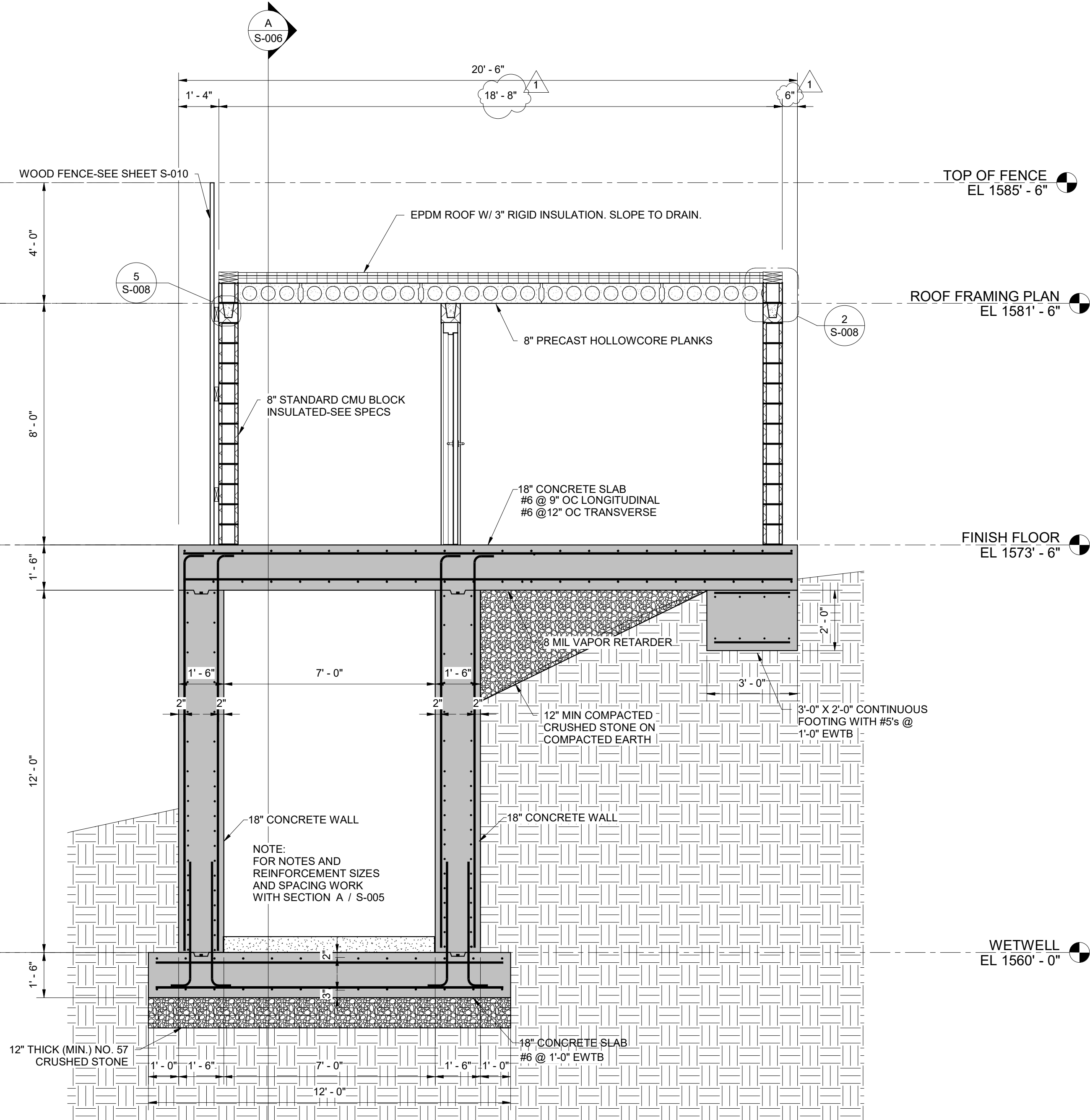
JOB NO.
G24017-01

ISSUE DATE
03/28/2025

DRAWING NO.
S-004.1



A SECTION
S-002 3/8" = 1'-0" 3' 2' 1' 0 1' 2' 3'



B SECTION
S-002 3/8" = 1'-0" 3' 2' 1' 0 1' 2' 3'

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DESIGNED		REVISIONS		BY		DATE		APPROVED	
JBM		DESCRIPTIONS		JBM		08/25		KGP	
DRAWN		1 LENGTHENED MASONRY BUILDING		JBM					
CHECKED									
APPROVED									

CITY OF LOOKOUT MOUNTAIN GEORGIA
CHICKAMAUGA TRAIL PUMP STATION
IMPROVEMENTS

TRANSVERSE SECTIONS



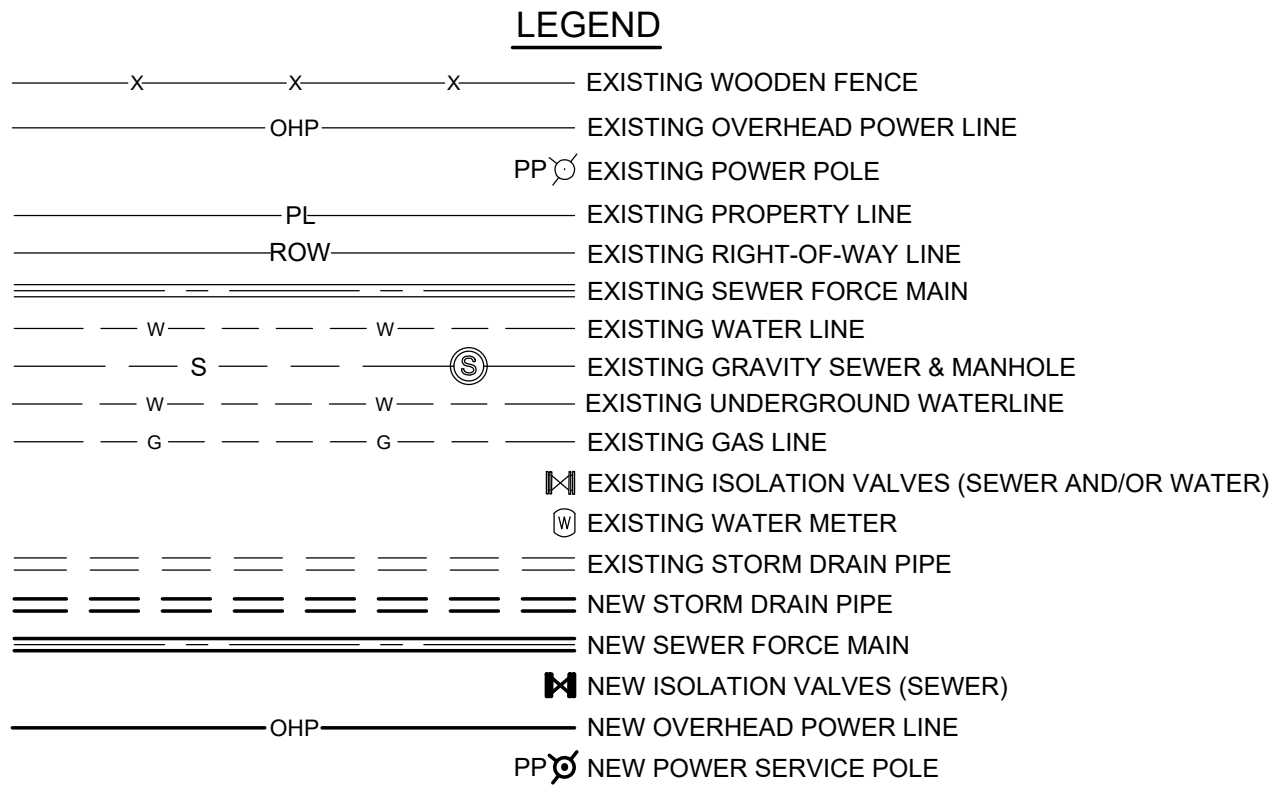
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JOB NO.
G24017-01

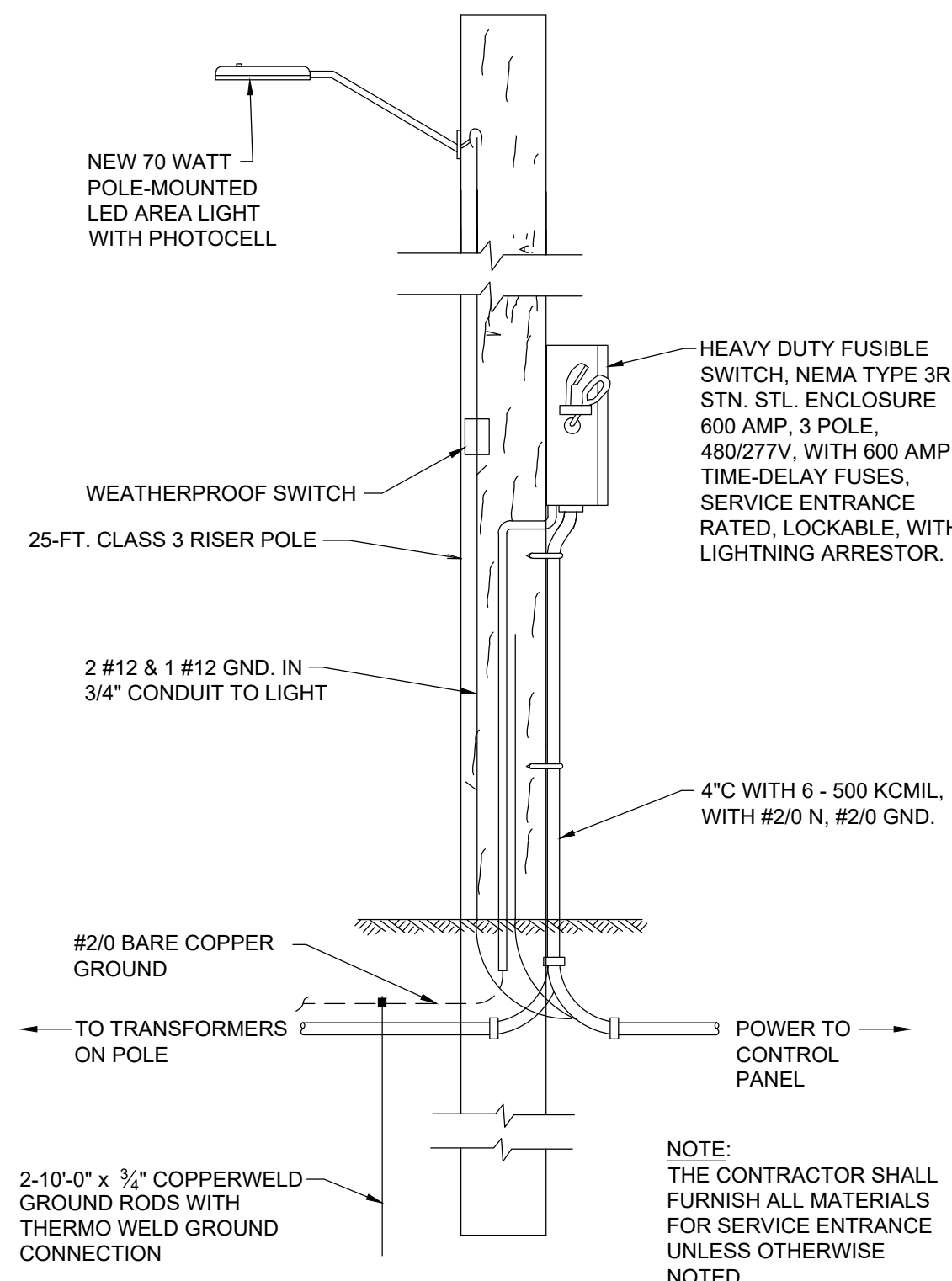
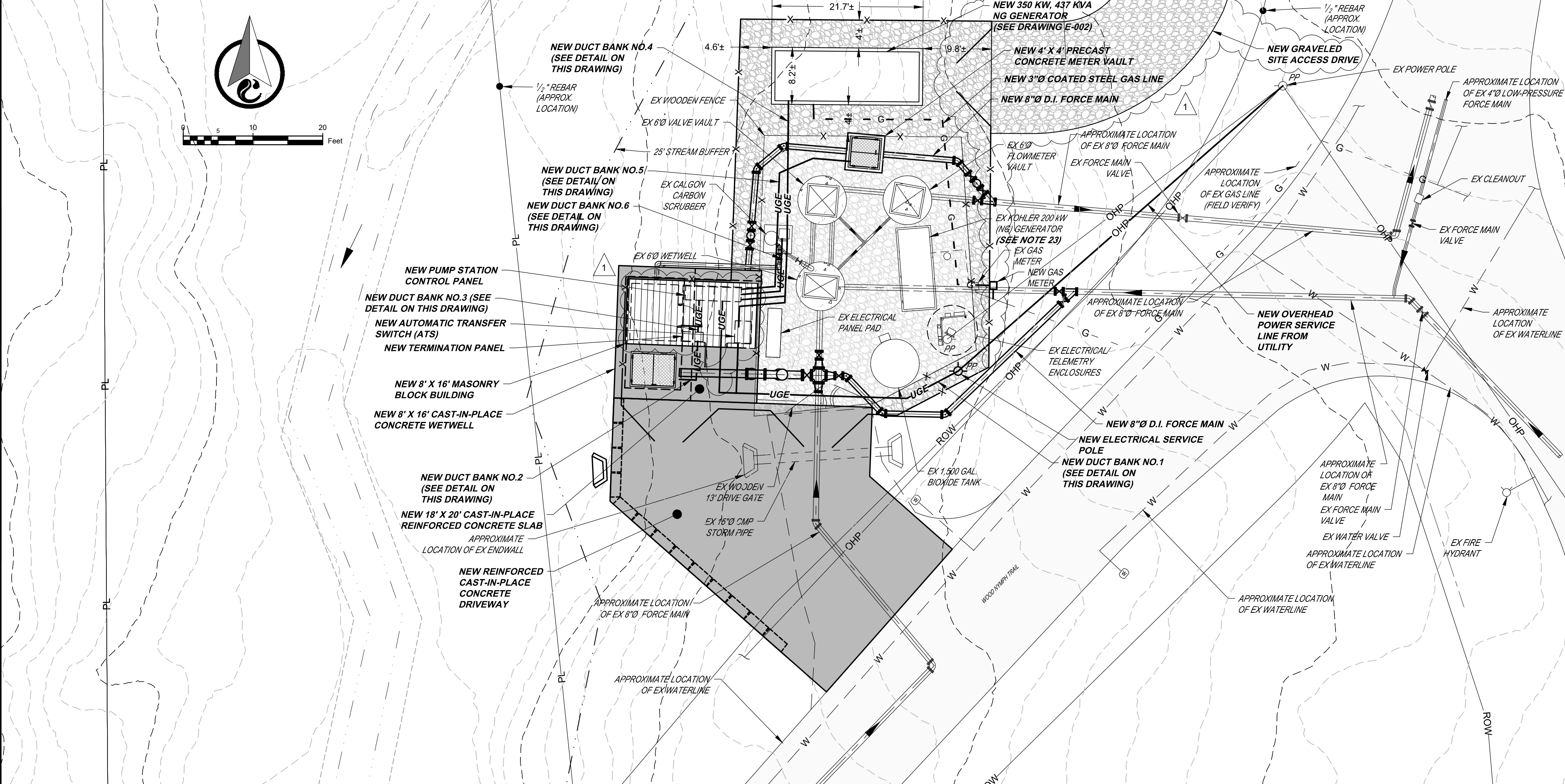
ISSUE DATE
03/28/2025

DRAWING NO.
S-005.1

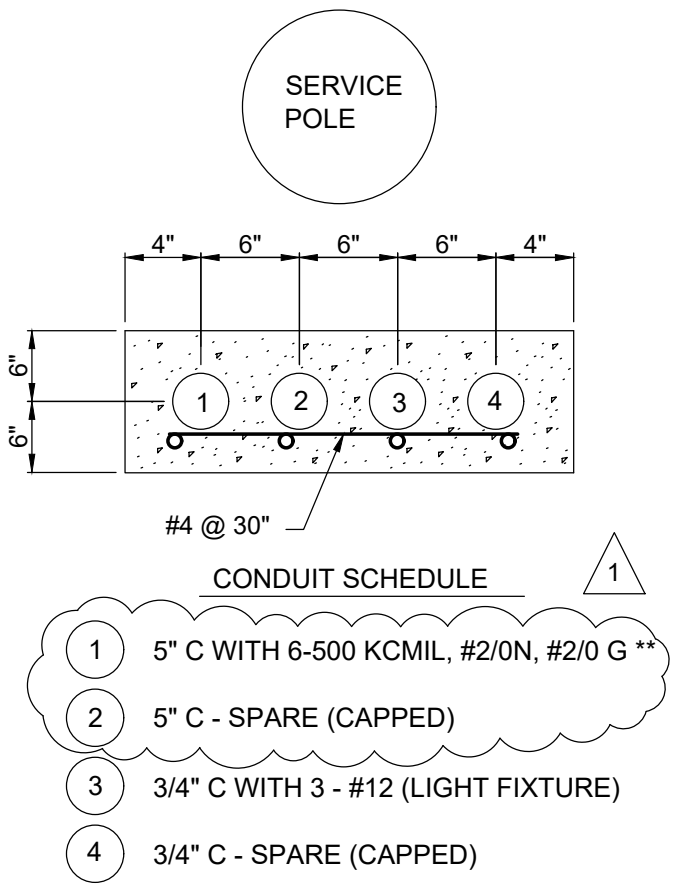


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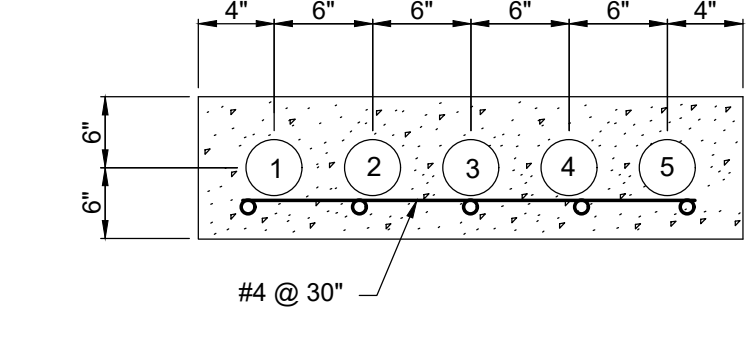
- THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CONNECTIONS WITH THE APPROPRIATE AGENCIES AND SHALL PAY ALL COSTS ASSOCIATED WITH THE CONNECTION OF EACH UTILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING A NEW CONTROL PANEL AND ASSOCIATED APPURTENANCES (INCLUDING NEW CONDUIT/DUCT BANKS, NEW WIRING, ETC.) AT THE LOCATION SHOWN ON THE CONTRACT DRAWINGS. REFER TO THE SPECIFICATIONS FOR REQUIRED CONTROL PANEL FUNCTIONS. PROVIDE ALL WIRING FOR THE CONTROLS.
- INSTALL NEW CONDUIT FOR THE CHECK VALVE LIMIT SWITCHES FROM THE VALVES TO THE NEW CONTROL PANEL INSIDE THE NEW MASONRY BLOCK BUILDING AS SHOWN ON THE CONTRACT DRAWINGS.
- POSITION SERVICE POLE SO THAT THE PROPER CLEARANCES ARE MAINTAINED FOR THE METER SOCKET, DISCONNECTS, ETC. PER THE REQUIREMENTS OF THE APPLICABLE ELECTRICAL CODES.
- FLEXIBLE SUBMERSIBLE CABLES SHALL BE CONTINUOUS FROM PUMPS AND FLOAT SWITCHES TO THE NEW CONTROL PANEL.
- INSTALL SEAL-OFF FITTINGS AS REQUIRED IN ALL CONDUITS LEADING FROM WETWELL TO CONTROL PANEL. WETWELL IS A CLASS 1, DIVISION 1 HAZARDOUS LOCATION.
- PROVIDE WATERTIGHT COMPRESSION FITTINGS AS REQUIRED WHERE CABLES EMERGE FROM CONDUITS IN WETWELL.
- SUPPORT FLEXIBLE CABLES AT TOP OF WETWELL INDEPENDENT OF CONDUITS.
- UNLESS OTHERWISE NOTED ALL ELECTRICAL CONDUIT AND RELATED FITTINGS SHALL BE PVC-COATED, RIGID GALVANIZED STEEL. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC, CONCRETE ENCASED.
- ALL SUPPORTS, FASTENER, AND HARDWARE SHALL BE STAINLESS STEEL.
- ALL ELECTRICAL CONDUIT WIRING AND MATERIALS SHALL BE UL LISTED.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE NEC AND APPLICABLE STATE AND LOCAL CODES.
- MOUNT GFI RECEPTACLE AND LIGHT INSIDE CONTROL PANEL.
- REFER TO SPECIFICATIONS FOR REQUIRED CONTROL FUNCTIONS.
- WIRING SHALL BE COPPER, WITH 600V INSULATION, THWN-2 OR XHHW-2.
- A 3 PHASE LIGHTNING SUPPRESSOR SHALL BE MOUNTED ON OUTSIDE DISCONNECT AT SERVICE POLE.
- HAZARDOUS AREA CLASSIFICATIONS FOR ELECTRICAL WORK:
 - INTERIOR OF BELOW GRADE WETWELL - CLASS 1, DIVISION 1, GROUP D
 - INTERIOR OF BELOW GRADE METER OR VALVE VAULT - CLASS 1, DIVISION 2, GROUP D
 - WITHIN 3 FEET OF WETWELL VENT - CLASS 1, DIVISION 1, GROUP D
 - WITHIN 5 FEET OF WETWELL VENT - CLASS 1, DIVISION 2, GROUP D
 - WITHIN 3 FEET OF EDGE OF HATCH UP TO 1.5 FEET HIGH - CLASS 1, DIVISION 2, GROUP D
- ALL CONDUITS LEAVING CLASSIFIED AREAS SHALL BE SEALED. CONDUIT BETWEEN HAZARDOUS AREA AND SEAL SHALL BE RIGID METAL. ALL JUNCTION BOXES AND PULL BOXES INSIDE CLASSIFIED AREAS SHALL BE EXPLOSION-PROOF.
- ALL ELECTRICAL CONTROL DEVICES SUCH AS FLOAT SWITCHES, LIMIT SWITCHES, AND SUBMERSIBLE PRESSURE TRANSDUCERS LOCATED INSIDE CLASSIFIED AREAS SHALL BE PROTECTED BY INTRINSICALLY-SAFE BARRIERS.
- ALL 480-VOLT GEAR SHALL HAVE A SYMMETRICAL SHORT CIRCUIT WITHSTAND RATING OF NOT LESS THAN 65-KA. ALL 480-VOLT FUSES AND CIRCUIT BREAKERS SHALL HAVE A SHORT CIRCUIT INTERRUPTING RATING OF NOT LESS THAN 65-KA.
- FURNISH AND INSTALL A NEW MISSION COMMUNICATIONS MODEL M852 RTU MY DRO SERIES WIRELESS REAL-TIME ALARM SYSTEM WITH STREAMING DATA UNIT IN A FLATPAK NEMA1 ENCLOSURE AND MOUNT THE ENCLOSURE IN THE PUMP CONTROL CABINET. IN ADDITION, MOUNT THE ANTENNA ASSOCIATED WITH THE UNIT AT A LOCATION RECOMMENDED BY THE MANUFACTURER AND AS DIRECTED BY THE ENGINEER. WIRE THE NEW UNIT TO MATCH THE ALARM OUTPUTS STIPULATED IN THE SPECIFICATIONS.
- FURNISH AND INSTALL AN OUTDOOR AREA LIGHT, LIGHT SWITCH (IN A WEATHERPROOF BOX w/COVER), CONDUIT, WIRING, AND OTHER RELATED APPURTENANCES NECESSARY TO MOUNT THE LIGHT ON THE POLE. THE LIGHT SHALL BE LITHONIA RSX2, 72W, 120V, WITH 2' MAST ARM AND PHOTOCELL.
- AFTER THE NEW PUMP STATION IS ON LINE AND OPERATING, THE EXISTING GENERATOR AND CONTROL PANEL SHALL BE REMOVED AND TRANSPORTED TO A LOCATION DESIGNATED BY THE OWNER. THE GAS LINE FROM THE EXISTING GENERATOR TO THE GAS METER AND THE ELECTRICAL WIRING FROM THE EXISTING GENERATOR TO THE ATS AND CONTROL PANEL SHALL BE REMOVED AS WELL. IN ADDITION, ALL OTHER WIRING TO THE CONTROL PANEL SHALL BE REMOVED AND THE CONDUITS ENTERING THE BOTTOM OF THE CONTROL PANEL SHALL BE CUT/CAPPED NEAR THE CONCRETE PAD SURFACE.
- RUN #2/0 BARE COPPER GROUND GRID CONDUCTOR FROM SERVICE ENTRANCE GROUND RODS AND BOND TO THE FOLLOWING:
 - FENCE POST
 - GENERATOR GROUND ROD
 - DUCTILE IRON FORCE MAIN INSIDE METER VAULT.



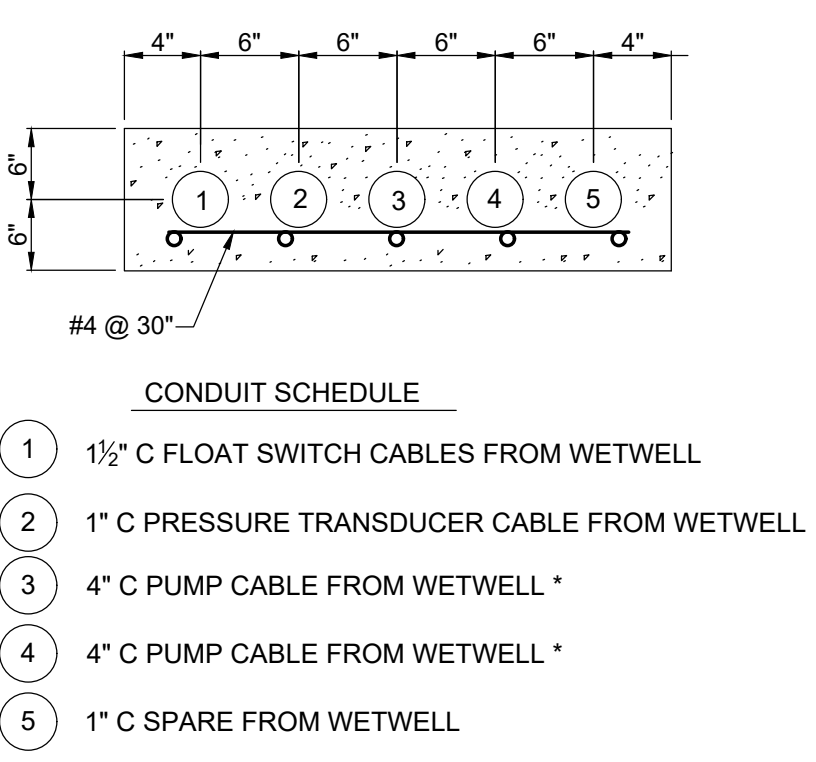
PUMP STATION SERVICE POLE DETAIL



**DUCT BANK NO.1
(SERVICE POLE TO ATS
AND CONTROL PANEL)**

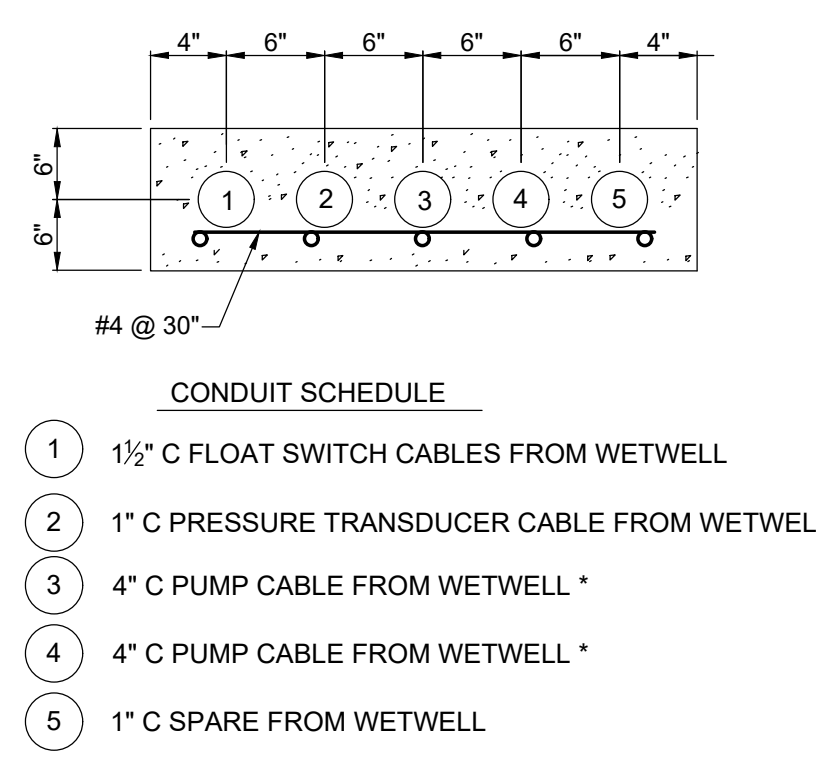


DUCT BANK NO.4 (GENERATOR TO ATS AND CONTROL PANEL)

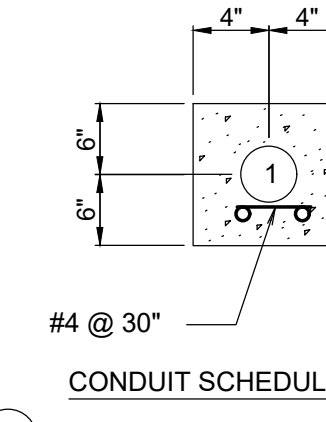


**DUCT BANK NO.2
(WETWELL TO TERMINATION PANEL)**

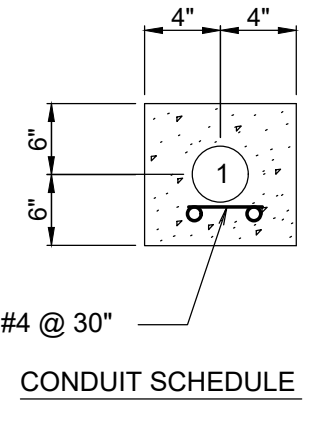
- * MINIMUM SIZE. CONFIRM ADEQUATE FOR PUMP CABLE SIZE.
- ** MINIMUM SIZE FOR AVAILABLE TRADE SIZES.



**DUCT BANK NO.3
(TERMINATION PANEL TO
CONTROL PANEL)**



DUCT BANK NO.5



DUCT BANK NO.6

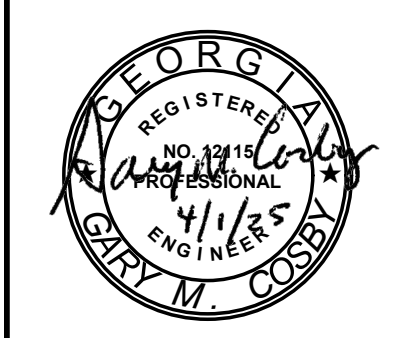
UNDERGROUND DUCT BANK DETAILS

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NO.	DESIGN	REVISIONS			DATE	BY	APPD
		DESCRIPTIONS	DATE	BY			
1	GMC	LENGTHENED MASONRY BUILDING, CHANGED CONDUIT SIZE IN DUCT BANK NO.1, REVISED NOTE 23.	08/25	GMC			
	DRAWN						
	CHECKED						
	APPROVED						

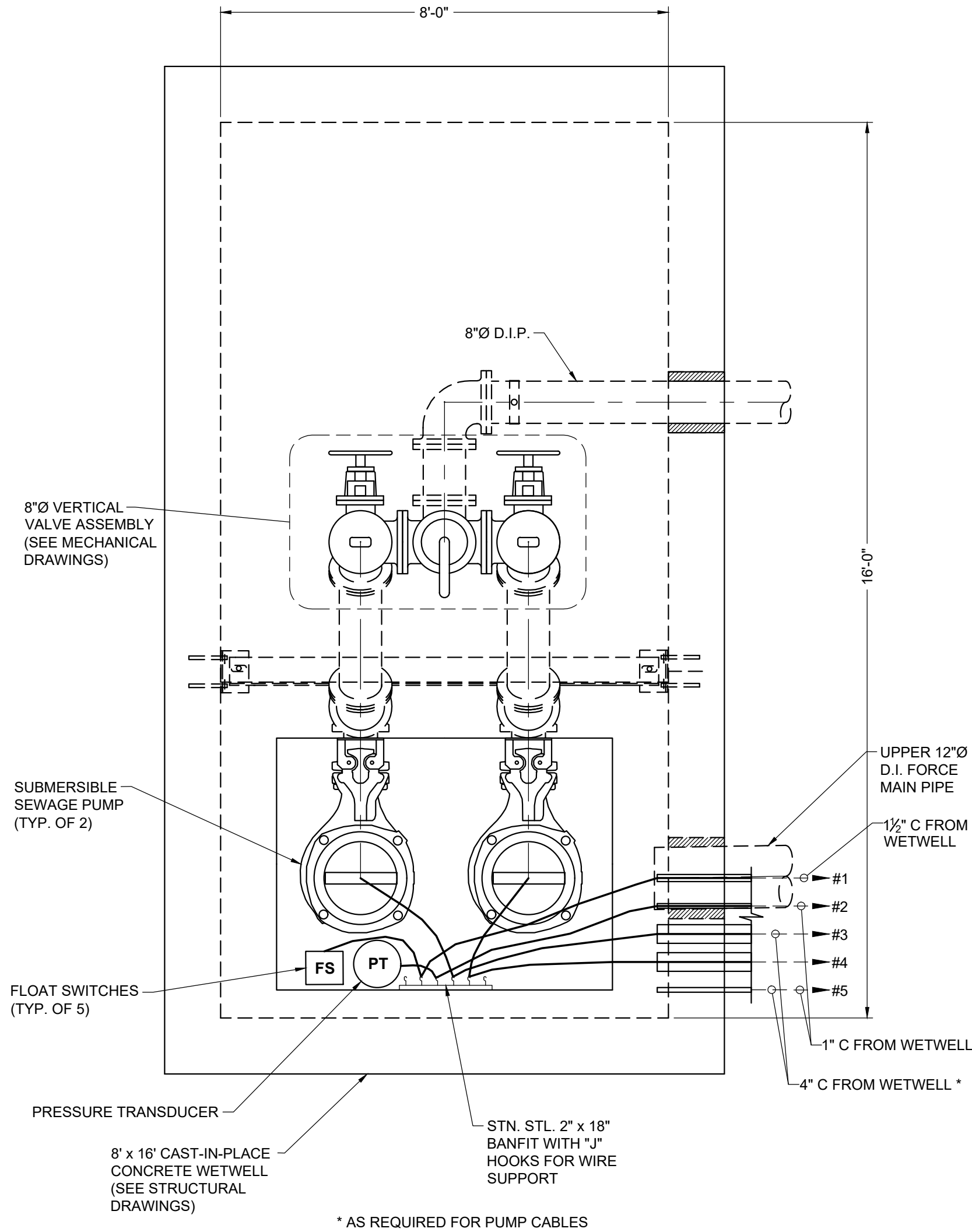
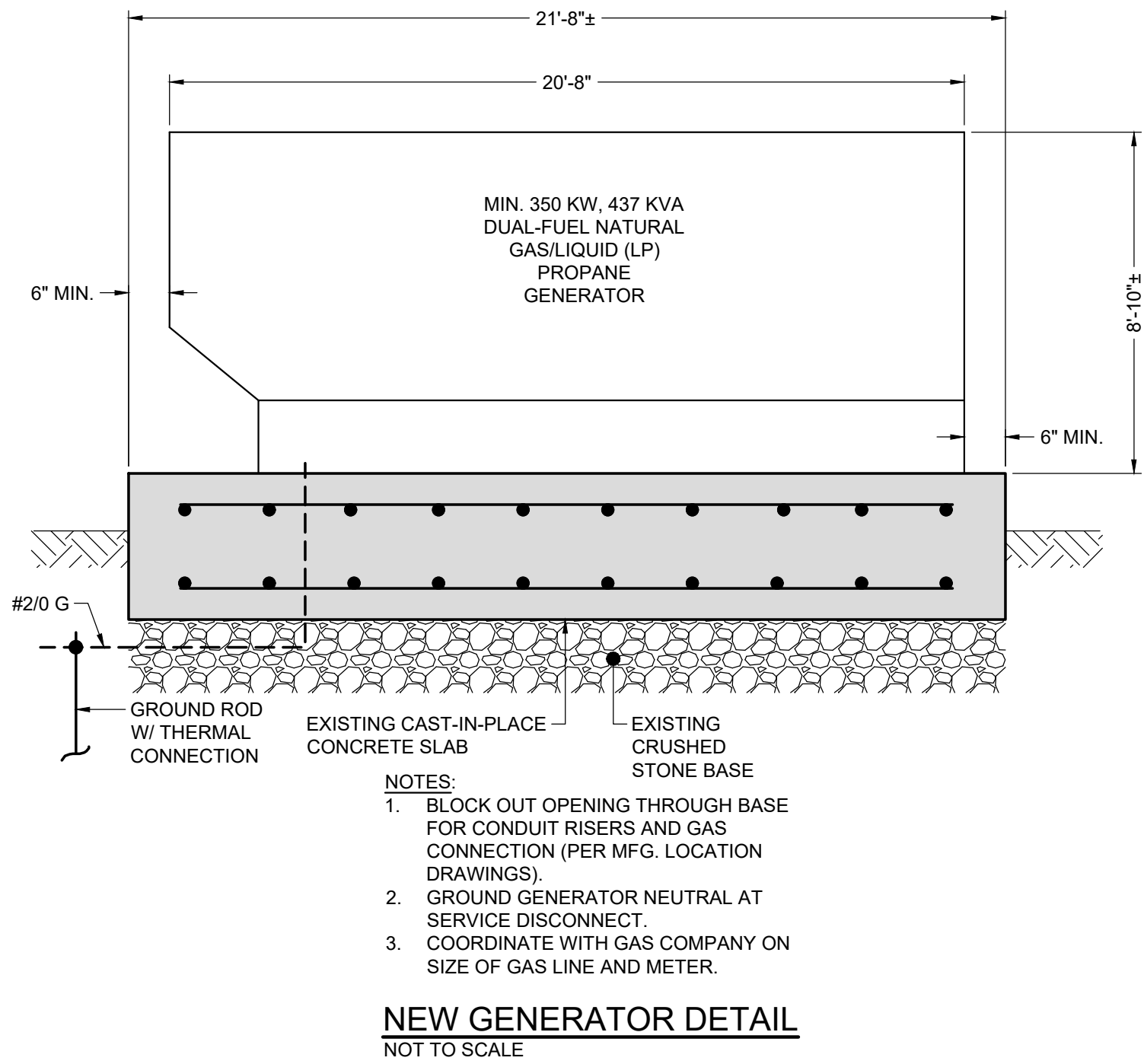
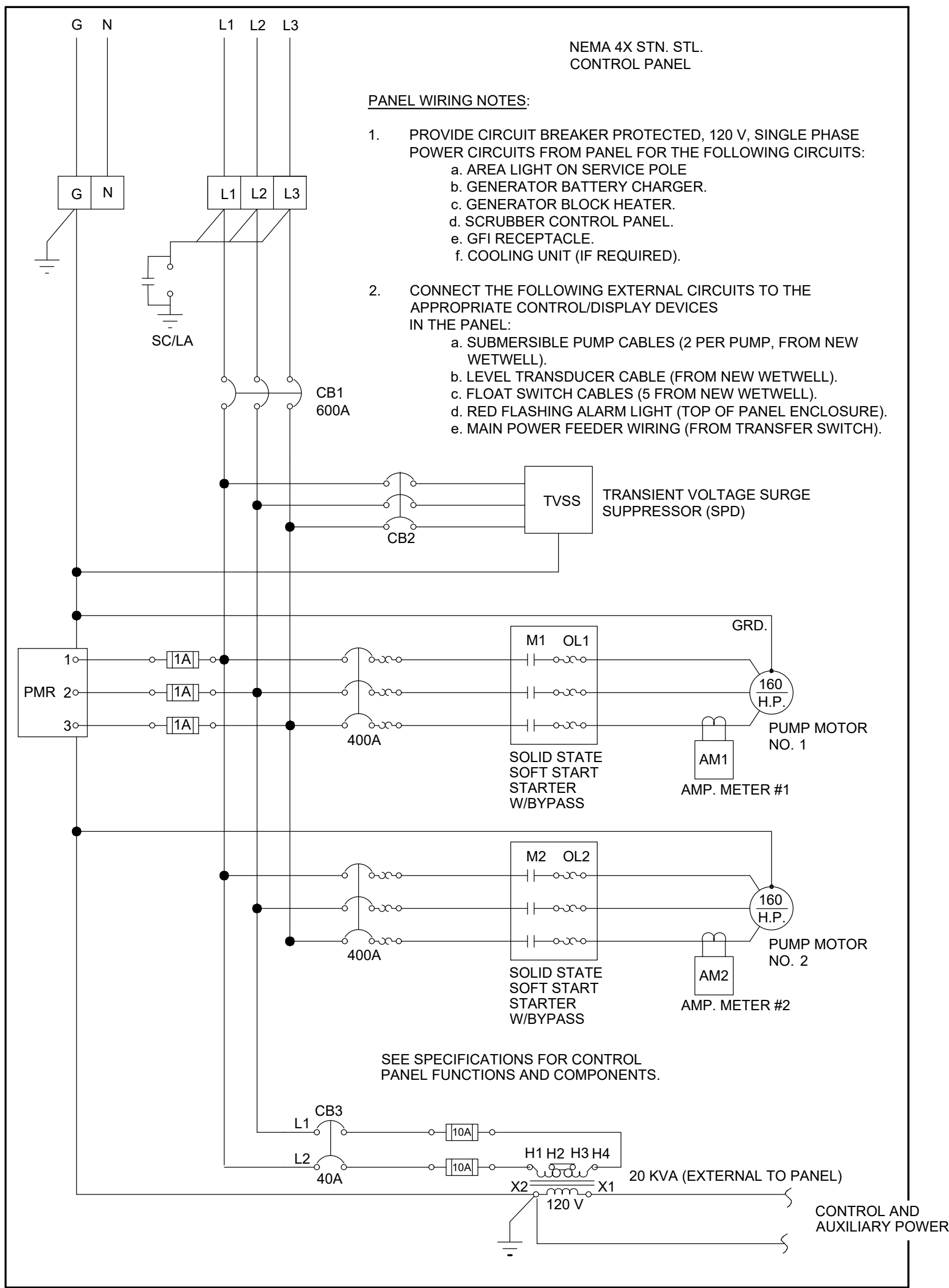
CITY OF LOOKOUT MOUNTAIN GEORGIA
CHICKAMAUGA TRAIL PUMP STATION
IMPROVEMENTS

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423-267-7613



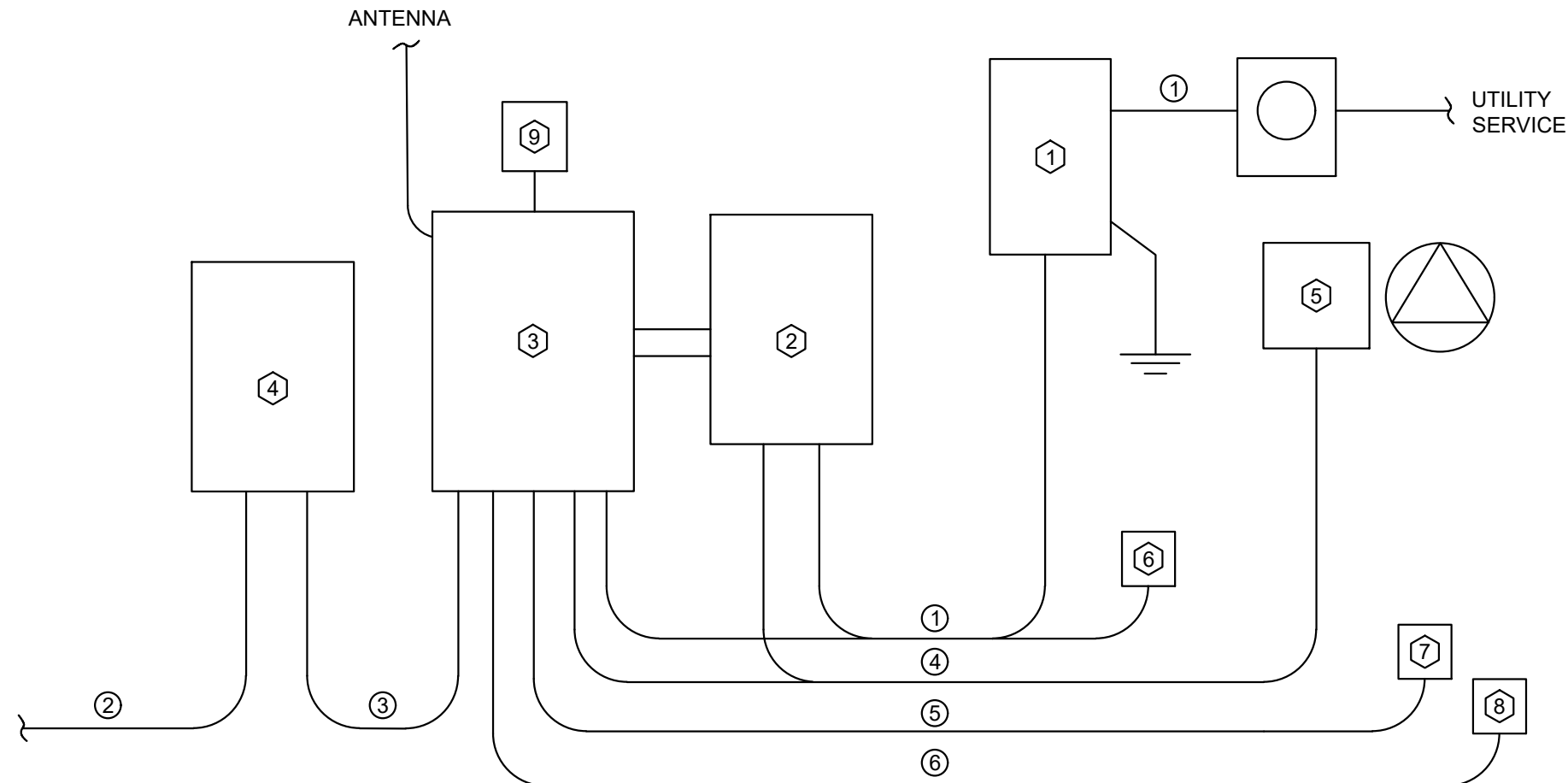
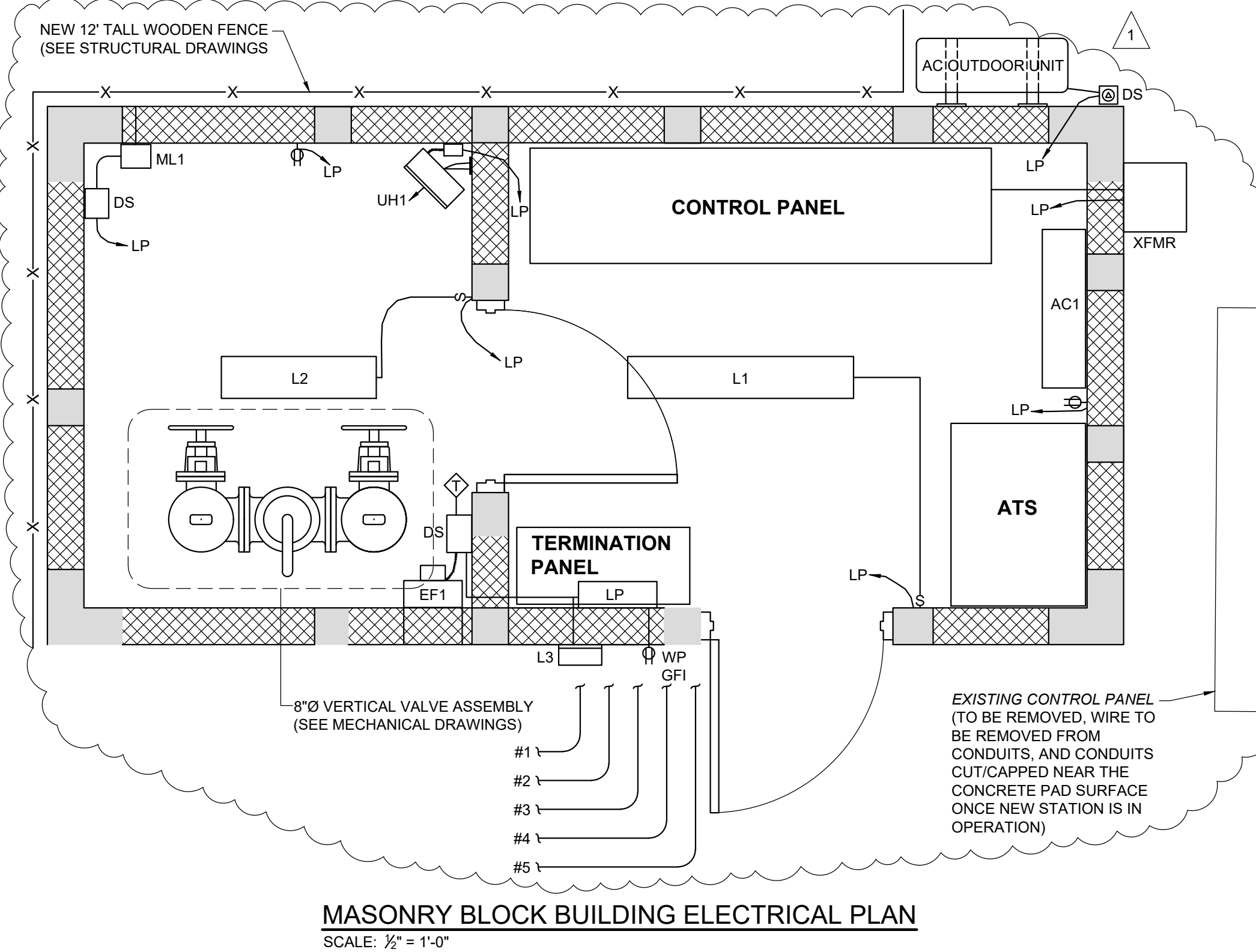
JOB NO.
G24017-01
ISSUE DATE
04/01/2025
DRAWING NO.
E-001.1

INCOMING LINE POWER 480 VOLT, 3 PHASE, 60HZ



BUILDING ELECTRICAL/HVAC EQUIPMENT LEGEND:

- LP LIGHTING PANELBOARD 120/240V, 100A, 3W, TINNED COPPER BUS, 20-CKT., NEMA 1, SURFACE MOUNT, WITH GROUND KIT. PROVIDE THE FOLLOWING CIRCUIT BREAKERS:
60A, 2P, MAIN BREAKER.
20A, 2P, HVAC UNIT.
30A, 2P, UNIT HEATER.
20A, 1P, RECEPTACLES.
15A, 1P, LIGHTING.
15A, 1P, FAN AND LOUVER.
15A, 1P, SPARE.
- XFMR DRY TRANSFORMER IN OUTDOOR ENCLOSURE, 20 KVA, 480V-120/240V, ENCAPSULATED, SINGLE PHASE, WITH WALL BRACKET.
- UH1 ELECTRIC UNIT HEATER, COMMERCIAL GRADE, 3 KW, 240V, SINGLE PHASE, WITH INTEGRAL THERMOSTAT AND WALL BRACKET.
- EF1 ALUMINUM SHUTTER-MOUNT EXHAUST FAN, 200 CFM AT 1/2-INCH SP, 120V, WITH FAN GUARD, WALL SLEEVE, AND GRAVITY ALUMINUM EXHAUST DAMPER, DAYTON, OR EQUAL.
- T LINE-VOLTAGE COOLING THERMOSTAT, SUITABLE FOR FAN LOAD, WITH 60 MIN., ADJUSTABLE REPEAT CYCLE TIMER.
- DS DISCONNECT SWITCH, 15A, 120V, IN NEMA 1 ENCLOSURE.
- ML1 4-INCH DEEP, 16 IN. X 16 IN., MOTOR-OPERATED, ALUMINUM INTAKE LOUVER WITH BIRD SCREEN, 120V, CONTROLLED THROUGH FAN THERMOSTAT.
- AC1 DUCTLESS MINI-SPLIT HEAT PUMP, COMMERCIAL GRADE, WITH SEACOAST PROTECTION, 12,000 BTUH, 240V, SINGLE PHASE, INTEGRAL CONTROLS, WITH TUBING, MITSUBISHI R454B, OR EQUAL.
- L1 VAPOR-TIGHT, LED CEILING LIGHT, 4 FT., 120V, 68W, SURFACE MOUNT, LITHONIA, OR EQUAL.
- L2 VAPOR-TIGHT, LED CEILING LIGHT, 2 FT., 120V, 40W, SURFACE MOUNT, LITHONIA, OR EQUAL.
- L3 LED OUTDOOR WALLPACK, BRONZE ANODIZED ALUMINUM, 120V, SWITCHABLE COLOR, SWITCHABLE WATTAGE 55-112 WATTS, WITH PHOTOCELL LITHONIA TWR2, OR EQUAL.



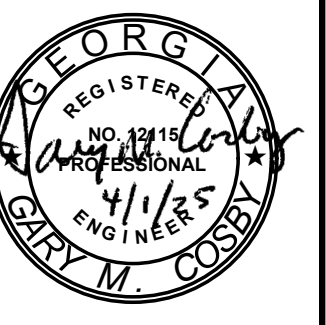
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REVISIONS	DATE	BY	APPD	DESCRIPTIONS
1	08/25	GMC	GMC	LENGTHENED MASONRY BUILDING & REVISED BLDG ELECT HVAC LEGEND

DESIGN	GMC
DRAWN	DDT
CHECKED	GMC
APPROVED	GMC

CITY OF LOOKOUT MOUNTAIN GEORGIA
CHICKAMAUGA TRAIL PUMP STATION
IMPROVEMENTS

PUMP STATION ELECTRICAL
SCHEMATIC AND DETAILS



JOB NO.

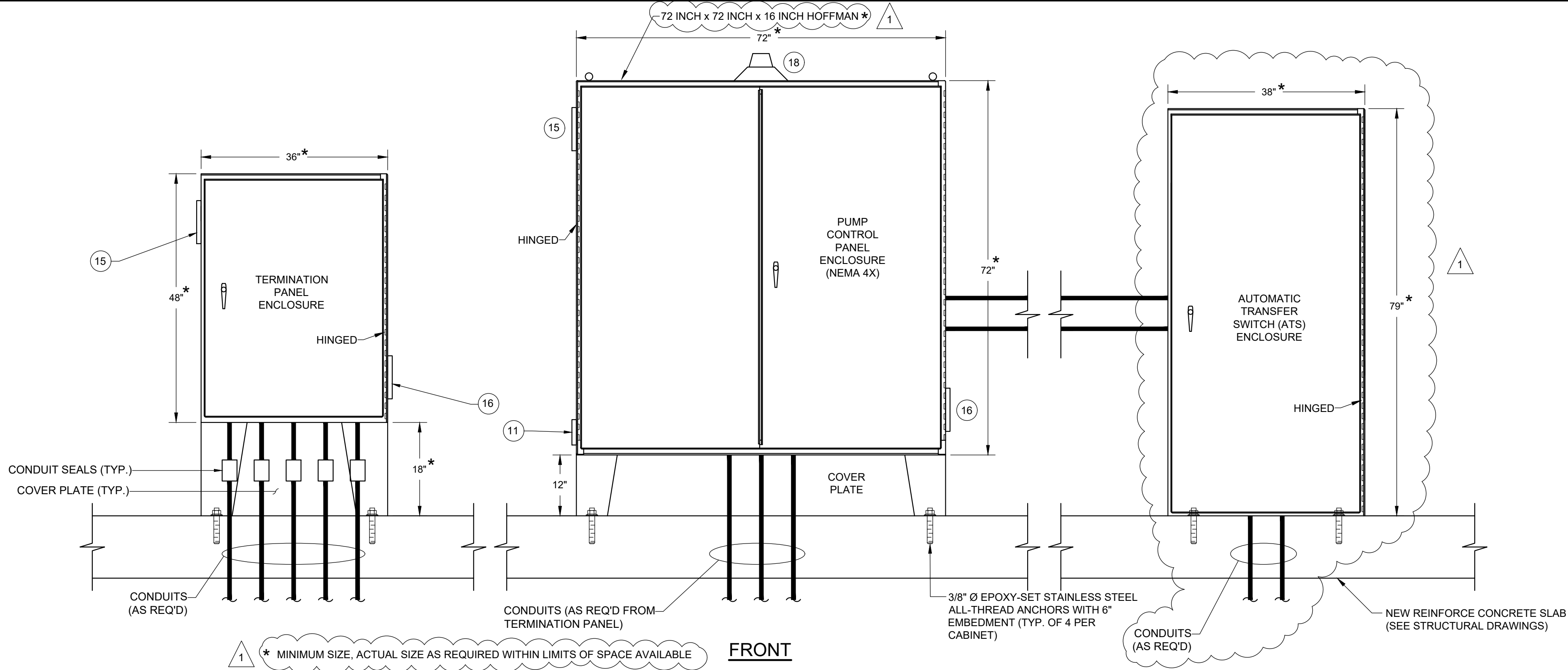
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ISSUE DATE

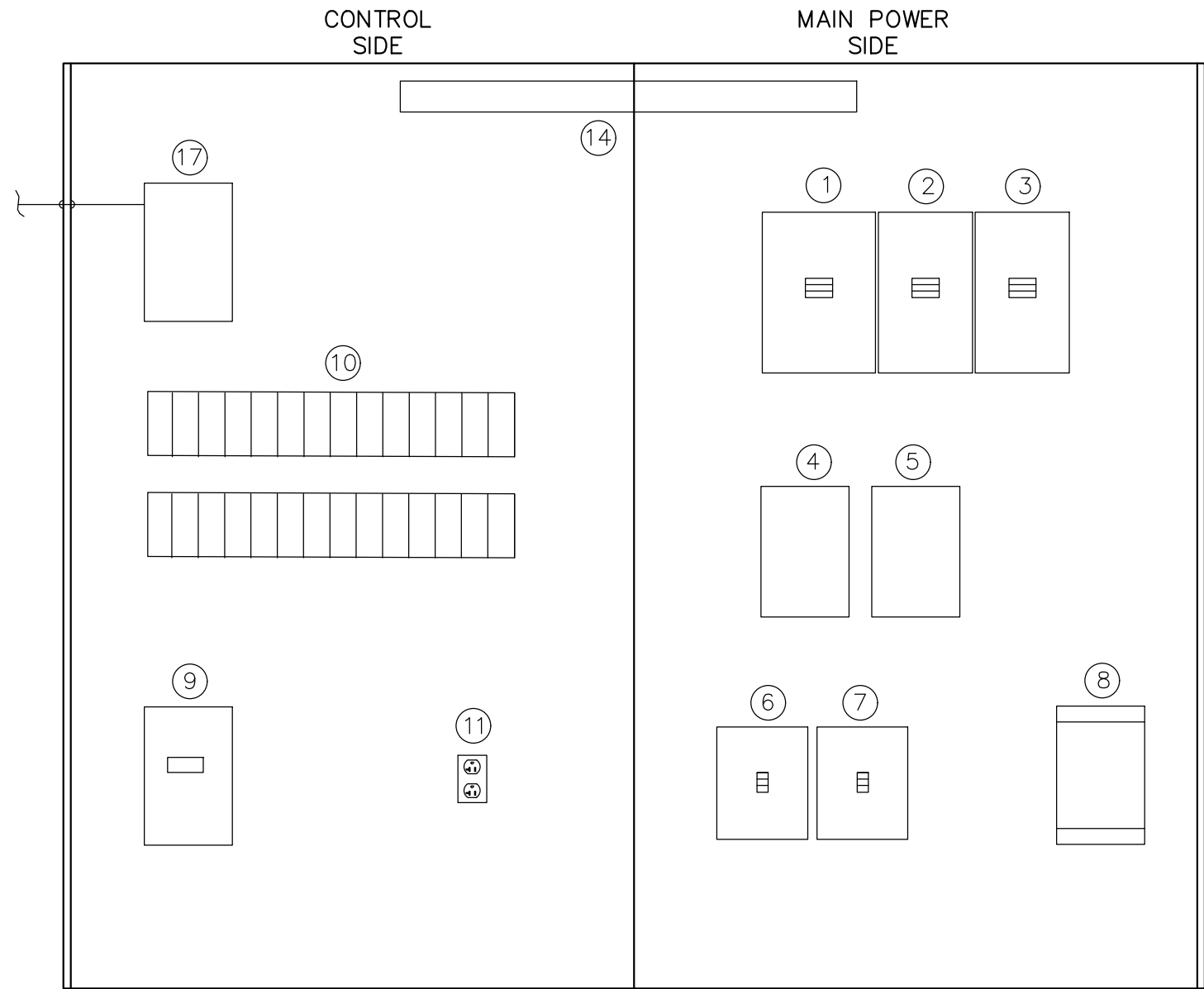
04/01/2025

DRAWING NO.

E-002.1



PUMP STATION TERMINATION PANEL, CONTROL PANEL, AND ATS PANEL MOUNTING DETAIL
NOT TO SCALE



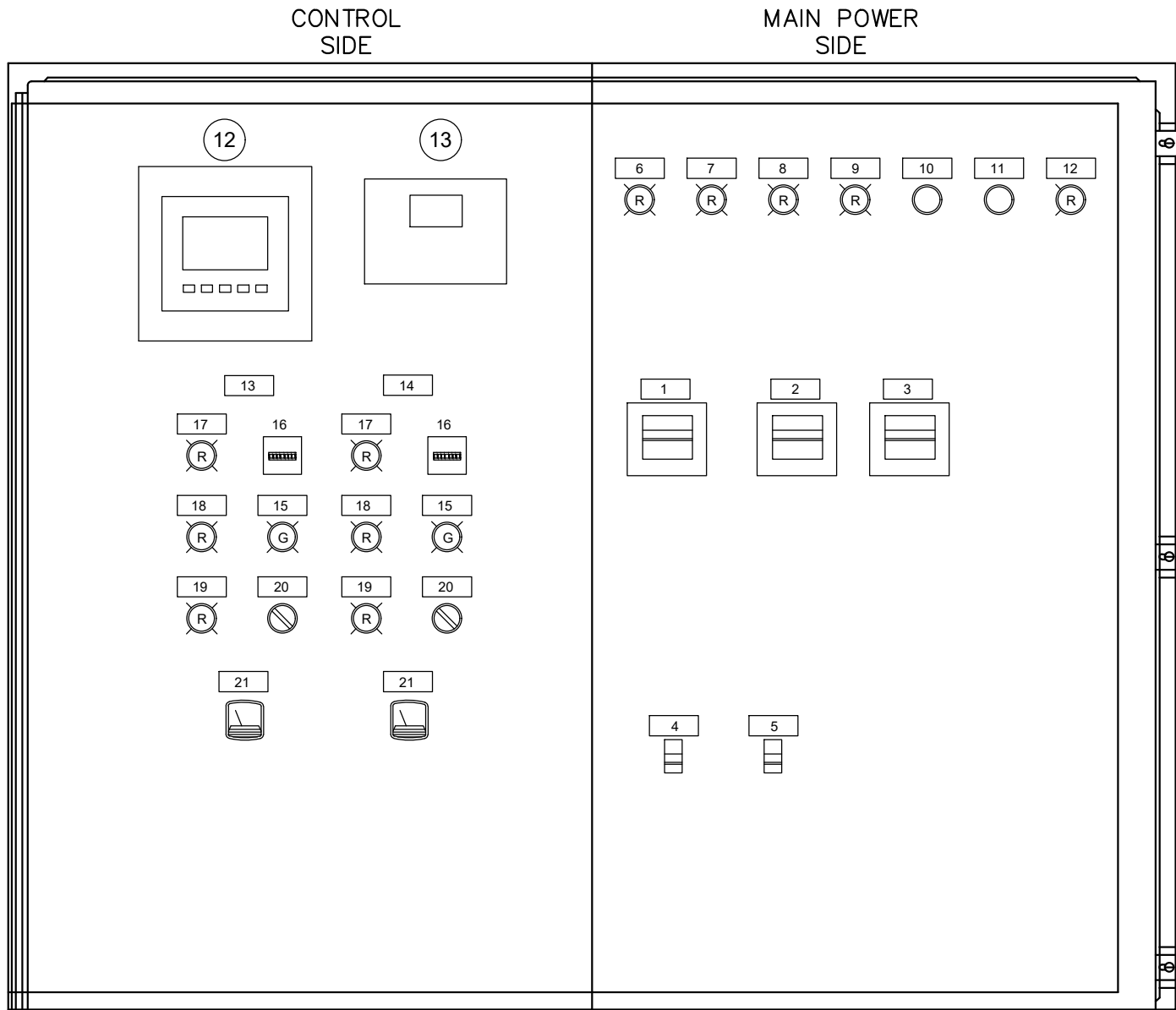
PUMP STATION CONTROL PANEL INTERNAL LAYOUT

PANEL MAJOR EQUIPMENT LEGEND:

- 1 MAIN CIRCUIT BREAKER, 600A, LOCKABLE
- 2 PUMP 1 CIRCUIT BREAKER, 400A, LOCKABLE
- 3 PUMP 2 CIRCUIT BREAKER, 400A, LOCKABLE
- 4 PUMP 1 STARTER
- 5 PUMP 2 STARTER
- 6 TVSS CIRCUIT BREAKER
- 7 TRANSFORMER CIRCUIT BREAKER
- 8 480V-120/240V, 20 KVA TRANSFORMER (EXTERIOR)
- 9 SURGE PROTECTOR (TVSS)
- 10 MISCELLANEOUS DIN-MOUNTED RELAYS
- 11 DUPLEX, GFI RECEPTACLE
- 12 PUMP CONTROLLER
- 13 FLOW METER DISPLAY

- 14 INTERIOR PANEL LIGHT (WITH SWITCH)
- 15 SCREENED AIR INTAKE WITH HOOD
- 16 EXHAUST FANS WITH HOOD AND THERMOSTAT
- 17 MISSIONS COMMUNICATIONS RTU
- 18 RED FLASHING ALARM LIGHT

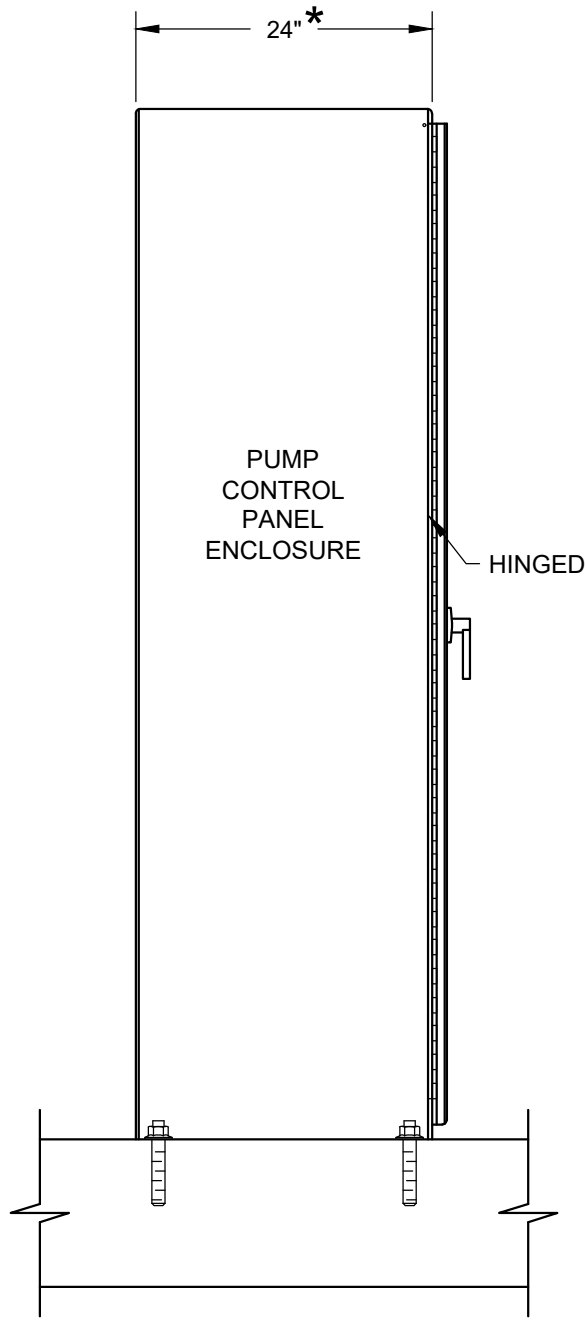
NOTE:
PROVIDE DIN RAIL MOUNTED BREAKERS FOR 120V ACCESSORIES



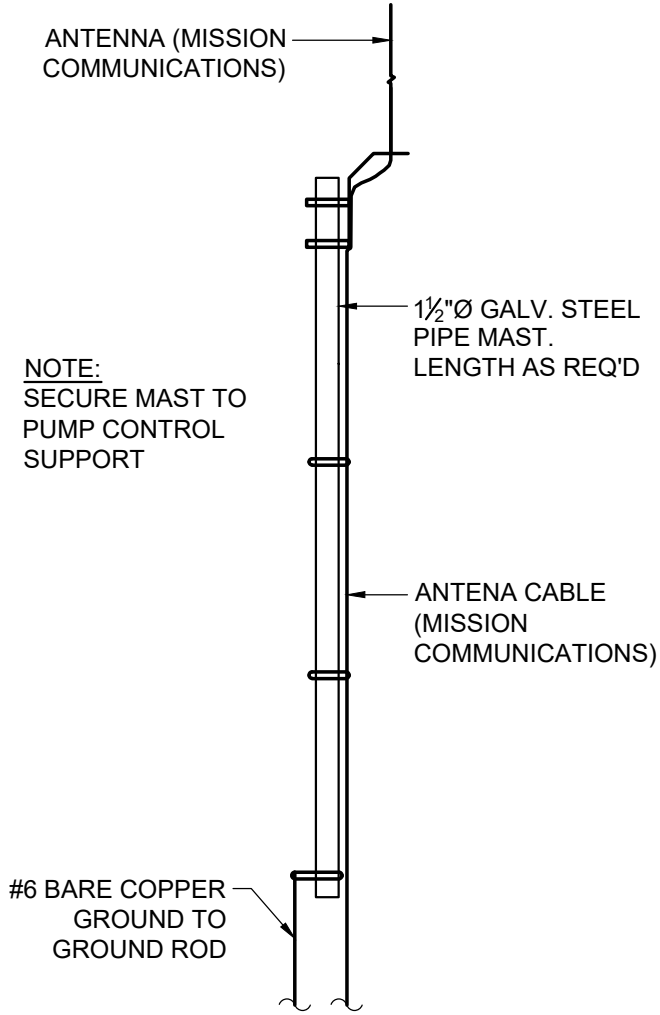
PUMP STATION CONTROL PANEL INNER DOOR LAYOUT
(LOCATED BEFORE INTERNAL LAYOUT)

PANEL DOOR DEVICE LEGEND:

- 1 MAIN CIRCUIT BREAKER
- 2 PUMP 1 CIRCUIT BREAKER
- 3 PUMP 2 CIRCUIT BREAKER
- 4 TVSS CIRCUIT BREAKER
- 5 TRANSFORMER CIRCUIT BREAKER
- 6 ON FLOATS
- 7 HIGH LEVEL FLOAT
- 8 LOW LEVEL FLOAT
- 9 POWER ABNORMALITY
- 10 ALARM TEST
- 11 ALARM RESET
- 12 CONTROL POWER
- 13 PUMP 1
- 14 PUMP 2
- 15 RUNNING
- 16 ETM
- 17 SEAL FAIL
- 18 OVERTEMP
- 19 PUMP FAIL
- 20 H-O-A
- 21 AMPS



SIDE



ANTENNA DETAIL
NOT TO SCALE

NOTE:
SECURE MAST TO
WOODEN SECURITY
FENCE POST -
FIELD LOCATE

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NO.	REVISIONS	DATE	BY	APP'D
1	REVISED LABELS & DIMENSIONS	08/25	GMC	GMC

DESIGN	GMC
DRAWN	DDT
CHECKED	GMC
APPROVED	GMC

CITY OF LOOKOUT MOUNTAIN GEORGIA
CHICKAMAUGA TRAIL PUMP STATION
IMPROVEMENTS

PUMP STATION CONTROL PANEL DETAILS



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