# HIGHWAY 17 NORTH PUMP STATION

MARCH, 2023

**BRUNSWICK-GLYNN** JOINT WATER & SEWER COMMISSION JWSC PROJECT #2109



# **COMMISSION MEMBERS:**

MR. BEN TURNIPSEED PE, CHAIRMAN

MR. TRIPP STEPHENS, VICE CHAIRMAN

MR. CHAD STRICKLAND

MR. CHARLES S. COOK

MR. CLAY WATSON

MRS. KENDRA ROLLE (CITY OF BRUNSWICK)

MR. WAYNE NEAL (GLYNN CO. BOC)

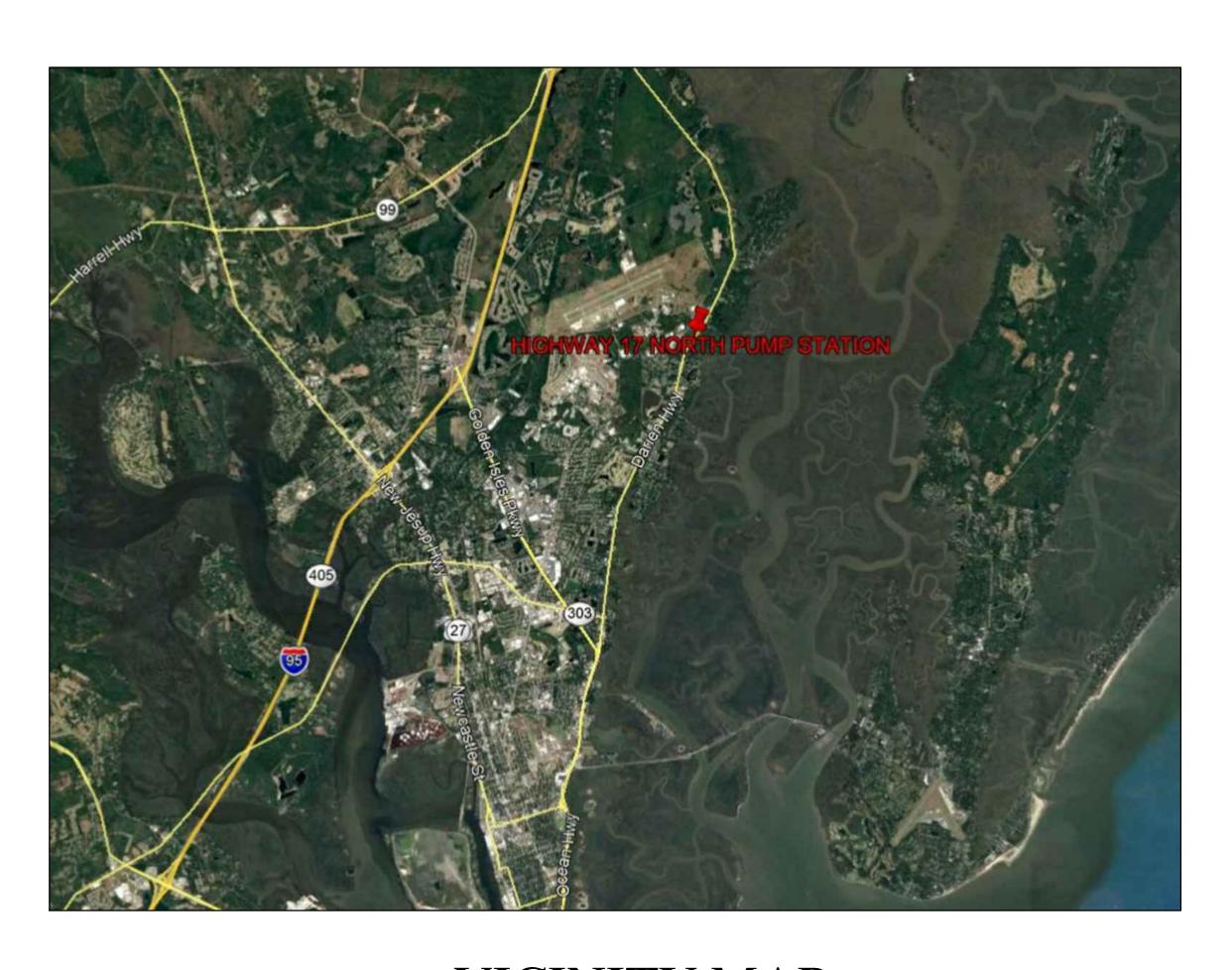
# EXECUTIVE DIRECTOR:

MR. ANDREW BURROUGHS, PE



BRUNSWICK - GLYNN COUNTY

24-HOUR CONTACT: TODD KLINE, PE, DIRECTOR OF ENGINEERING EMERGENCY NUMBER: (912) 634-0258

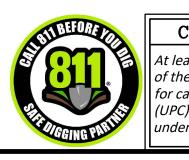


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# **NOTES:**

CONTRACTOR SHALL NOTIFY BGJWSC PLANNING AND CONSTRUCTION DIVISION 48 HOURS BEFORE STARTING WORK ON THIS PROJECT.



CALL BEFORE YOU DIG!

PE 31262 PROFESSIONAL  *  PE 31262 PROFESSIONAL  *  *  *  *  *  *  *  *  *  *  *  *  *

OINT WATER & SEWER CO
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# STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION APPENDIX

	CANITADY OFFICE LIFT OTATION AND TODOS	ANING ACCEPTABLE MANUELOTUBES				
PARAGRAPH	SANITARY SEWER — LIFT STATION AND FORCE M PRODUCT					
	SITE REQUIREMENTS	MANUFACTURER				
	Bypass Pumping Connection Cam Lock	Dixon				
	Bypass Piping	OPW Vulcan Plastics				
	PVC 1120, Class 150, DR 18	JM Eagle  Star Pipe				
	DR 18 Sewer Safe Mechanical Joint Fittings	Sigma Corp.				
	Bypass Piping Ductile Iron Pipe	Griffin Pipe US Pipe				
	Ductile Iron Pipe Sewer Safe Mechanical Joint Fittings	Star Pipe Sigma Corp.				
4.5.3	WET WELL CONFIGURATION					
4.5.3.4 	Access Hatches	U.S. Foundry, EJ, Consolidated				
4.5.4	PRECAST CONCRETE STRUCTURES					
4.5.4.1	Precast Concrete Structures	MST Inc. Hanson Pipe and Precast				
		Mega Cast				
4.5.4.2	Moderate Risk Corrosion Protection	SewperCoat Madewell CA				
		SewperCoat				
	High Risk Corrosion Protection	Madewell CA				
	Significant Risk Corrosion Protection	SewperCoat Madewell CA				
4.5.5	FIBERGLASS STRUCTURES					
4.5.5.1	Fiberglass Structures	Xerxes L.F. Manufacturing				
 4.5.7	WET WELL AND DISCHARGE HEADER PIPING	Flowtite				
		Performance Pipe				
4.5.7.1 	Interior Piping High Density Polyethylene (HDPE) Pipe	JM Eagle Lamson & Sessions				
	Interior Piping Class 53 Flange by Flange Ductile Iron Pipe	Star Pipe Sigma Corp.				
4.5.7.2	Exterior Piping Class 53 Flange by Flange Ductile Iron Pipe	Griffin Pipe US Pipe				
	Exterior Pipe Fittings Flange by Flange	Star Pipe Sigma Corp.				
 4.5.8	VALVES AND APPURTENANCES					
4.5.8.1	Isolation (Plug) Valves	Dezurik				
4.5.8.2	Check Valves	Clow				
	Air Release Valve	ARI D-025 w/one way valve				
	Discharge Gauge Fittings					
4.5.9	PUMPING STATION					
4.5.9.2	Submersible Pumps	Flygt, KSB, Wilo, Grundfos				
4.5.9.3	Grinder Pumps	Flygt, KSB, Wilo, Grundfos				
4.5.11	ELECTRICAL EQUIPMENT AND CONTROLS					
A E 11 1A	En ele euro	Hoffman APX				
4.5.11.1A	Enclosure	Flygt Bison				
		D13011				
	Panel Components	Listed Below				
4.5.11.2B		Listed Below Square D Danfoss VLT				
4.5.11.2B	Panel Components  Motor Starters Variable Frequency Drives	Listed Below Square D				
4.5.11.2B 4.5.11.2C		Listed Below Square D Danfoss VLT				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E	Motor Starters Variable Frequency Drives  Circuit Breakers	Listed Below  Square D Danfoss VLT ABB  Square D				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F	Motor Starters Variable Frequency Drives  Circuit Breakers	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H 4.5.11.2U	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H 4.5.11.2J 4.5.11.2J	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H 4.5.11.2J 4.5.11.2J 4.5.11.2X	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch  Hand Off Auto Switches  Power Monitor	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer Square D  Macromatic  NTE Allen Bradley				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H 4.5.11.2J 4.5.11.2J	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch  Hand Off Auto Switches  Power Monitor	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer Square D  Macromatic  NTE				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H 4.5.11.2J 4.5.11.2J 4.5.11.2V 4.5.11.2N	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch  Hand Off Auto Switches  Power Monitor	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer Square D  Macromatic  NTE Allen Bradley AA Electric				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2G 4.5.11.2H 4.5.11.2J 4.5.11.2V 4.5.11.2N 4.5.11.2N	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch  Hand Off Auto Switches  Power Monitor  Relays	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer Square D  Macromatic  NTE Allen Bradley AA Electric Idec Ditek				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2H 4.5.11.2H 4.5.11.2J 4.5.11.2V 4.5.11.2N 4.5.11.2N 4.5.11.2O 4.5.11.2O	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch  Hand Off Auto Switches  Power Monitor  Relays  Lighting Arrestors  Elapsed Time Meter	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer Square D  Macromatic  NTE Allen Bradley AA Electric Idec  Ditek Delta ENG Yokogawa Roto Float				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2H 4.5.11.2H 4.5.11.2J 4.5.11.2V 4.5.11.2N 4.5.11.2N 4.5.11.2O 4.5.11.2O	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm  Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch  Hand Off Auto Switches  Power Monitor  Relays  Lighting Arrestors	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer Square D  Macromatic  NTE Allen Bradley AA Electric Idec  Ditek Delta  ENG Yokogawa  Roto Float Blue Ribbon Vega				
4.5.11.2B 4.5.11.2C 4.5.11.2D & E 4.5.11.2F 4.5.11.2H 4.5.11.2J 4.5.11.2J 4.5.11.2V 4.5.11.2N 4.5.11.2N 4.5.11.2O 4.5.11.2O	Motor Starters Variable Frequency Drives  Circuit Breakers  Audible Alarm Alarm Light  GFI Receptacles  Generator Receptacles  Manual Transfer Switch  Hand Off Auto Switches  Power Monitor  Relays  Lighting Arrestors  Elapsed Time Meter	Listed Below  Square D Danfoss VLT ABB  Square D  Federal Signal 24v  Federal Signal 24v  ISO GE Morris Leviton  Cam Lock  ATS ABB Trueone ATS Level 4  Cutler Hammer Square D  Macromatic  NTE Allen Bradley AA Electric Idec  Ditek Delta  ENG Yokogawa  Roto Float Blue Ribbon				

# STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION APPENDIX

	4A					
	SANITARY SEWER - LIFT STATION AND FORCE	MAINS - ACCEPTABLE MANUFACTURERS				
PARAGRAPH	PRODUCT	MANUFACTURER				
4.5.12	REMOTE TERMINAL UNIT					
4.5.12	RTU (SCADA)	ELECTRONIC MACHINE CONTROL				
4.5.14	LOW FLOW STATION (ONLY) RTU SYSTEM					
4.5.14.1	RTU (SCADA)	ELECTRONIC MACHINE CONTROL				
4.5.16	ON-SITE STANDBY GENERATORS & AUTOMATIC TRANSFER CONTROLS					
4.5.16	Standby Generators	Onan Caterpillar				
4.5.16.2	Engine—Generator Controls	Onan Caterpillar				
4.5.16.3 Auto Transfer Switches		ABB Trueone ATS Level 4				
4.7.6	FORCE MAIN MATERIALS					
4.7.6.1	AWWA C-900/C-905 DR 18	Vulcan Plastics JM Eagle U.S. Plastic Corp.				
	DR 11 (HDPE) Pipe High Density Polyethylene	Performance Pipe JM Eagle Lamson & Sessions				
	Interior Coated CL52 Ductile Iron Pipe	Griffin Pipe US Pipe				
4.7.6.3	Sewer Safe Mechanical Joint Fittings	Star Pipe Sigma Corp.				
	Sewer Safe Coupling	HyMax Star Pipe Sigma Corp.				
4.7.6.4	Isolation (Plug) Valves Air Release Valves	ARI D-025 w/one way valve				

NOTE 1	WHERE NO MANUFACTURER IS LISTED FOR A PARTICULAR ITEM OF MATERIAL OR EQUIPMENT, THE CONTRACTOR MAY SELECT THE MANUFACTURER PROVIDED THAT ALL REQUIREMENTS OF THESE STANDARDS FOR THAT PARTICULAR ITEM OF MATERIAL OR EQUIPMENT ARE MET. SUBMITTALS FOR SUCH ITEMS ARE REQUIRED.
NOTE 2	STANDARD CONSTRUCTION DETAILS MAY BE FOUND ON PLAN SHEETS P-7 AND P-8 OF THESE CONSTRUCTION PLANS.

## LEGEND:

FOUND

SATELLITE DISH

- IRF IRON REBAR FOUND■ CMF CONCRETE MONUMENT■ CABLE TV BC
  - NUMENT © CABLE TV BOX

    SIGN
  - FIRE HYDRANT

    9,3

    SPOT ELEVATION

    WATER VALVE

    CONCRETE
  - WATER METER

    IRRIGATION CONTROL VALVE

    BUILDING
  - WELL AS

    CATCH BASIN

    GR
  - MAIL BOX
    SANITARY SEWER MANHOLE

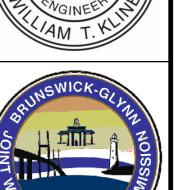
    BRICK PAVERS

  - → UTILITY POLE —— OHU —— OVERHEAD UTILITIES

    → GUY WIRE —— w—— w—— WATER LINE

— ss — ss — SANITARY SEWER LINE

# PE 31262 PROFESSIONAL



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BRUNSWICK-GLYNN COUNTY
JOINT WATER & SEWER COMMISSION
PLANNING & CONSTRUCTION DIVISION
1703 Gloucester Street
Brunswick, Georgia 31520
(912) 261-7110 Phone
(912) 261-7178 Fax

COMMENTS:	K. YOUNG COMMENTS	T. KLINE COMMENTS	-	•	,	-	
ATE:	27/2022	28/2022	-			-	

NO.: DATE:

1 04/27/2022
2 04/28/2022
- - -

17 NORTH PUMP STATION
COUNTY JOINT WATER & SEWER COMMISSIO

BRUNSWICK-GLYNN COUNTY JOIN

PROJ. #2109

DATE:

MAR 20, 2023

SCALE:

NONE

SHEET NO.:

# JWSC WATER & SEWER NOTES

- 1. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATION OF THE BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION. IN THE EVENT OF A DISCREPANCY BETWEEN THESE CONSTRUCTION PLANS AND THE AFOREMENTIONED STANDARDS AND SPECIFICATIONS, THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS SHALL TAKE PRECEDENCE UNLESS THE DEVIATION HAS BEEN APPROVED IN WRITING BY THE JWSC.
- 2. THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER LINES, SEWER LINES, AND STORM DRAINS SHALL CONFORM TO THE LATEST GEORGIA EPD REQUIREMENTS.
- 3. A MINIMUM DISTANCE OF 20' OR TWO TIMES THE DEPTH OF THE MAIN, WHICHEVER IS GREATER, SHALL BE MAINTAINED FROM ALL BUILDINGS, FOUNDATIONS AND THE TOP OF BANK OF ALL PONDS, ANY DEVIATION FROM THIS REQUIREMENT MUST BE APPROVED IN WRITING BY THE JWSC.
- 4. PRESSURE AND LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE JWSC.
- 5. AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE UTILITIES PROTECTION CENTER (UPC) AT 1-800-282-7411 TO REQUEST UNDERGROUND UTILITY LOCATE SERVICE.
- 6. ALL GRAVITY SEWERS SHALL BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH JWSC STANDARDS 3.6.9.
- 7. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH JWSC STANDARDS 3.6.9.3.
- 8. ALL PORTIONS OF NEW SEWAGE FORCE MAIN SHALL UNDERGO A HYDROSTATIC TEST PER JWSC STANDARDS 4.7.7.
- 9. SEE JWSC STANDARD 2.5.3.3 FOR MINIMUM PIPE COVER REQUIREMENTS.
- 10. RECORD DRAWINGS MUST BE PROVIDED TO JWSC FOR ALL WATER AND SEWER INFRASTRUCTURE IN ACCORDANCE WITH JWSC RECORD DRAWINGS STANDARDS.
- 11. THE CONTRACTOR SHALL IMMEDIATELY REPAIR EXISTING WATER & SEWER SERVICES DAMAGED DURING CONSTRUCTION T THE CONTRACTORS EXPENSE.
- 12. BYPASS PUMPING UNIT SHALL BE PRESENT AND READY TO OPERATE ON-SITE AT ALL TIMES WHILE IMPROVEMENT WORK IS IN PROGRESS. ALL TEMPORARY BYPASS PUMPING REQUIRED FOR REHAB WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THESE PUMPING REQUIREMENTS. ALL LABOR, DESIGN, EQUIPMENT, MATERIALS, RENTAL FEES, TEMPORARY PIPING AND INCIDENTALS SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION TO THE CONTRACT.
- 13 THE BGJWSC RESERVES FIRST RIGHT OF SALVAGE FOR ALL EQUIPMENT REMOVAL.
- 14 CONTRACTOR MUST SUBMIT A BYPASS PLAN TO BGJWSC FOR REVIEW AND APPROVAL.

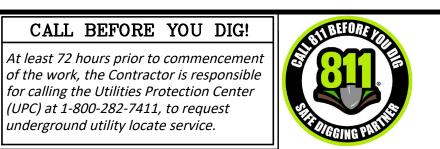
# GENERAL NOTES

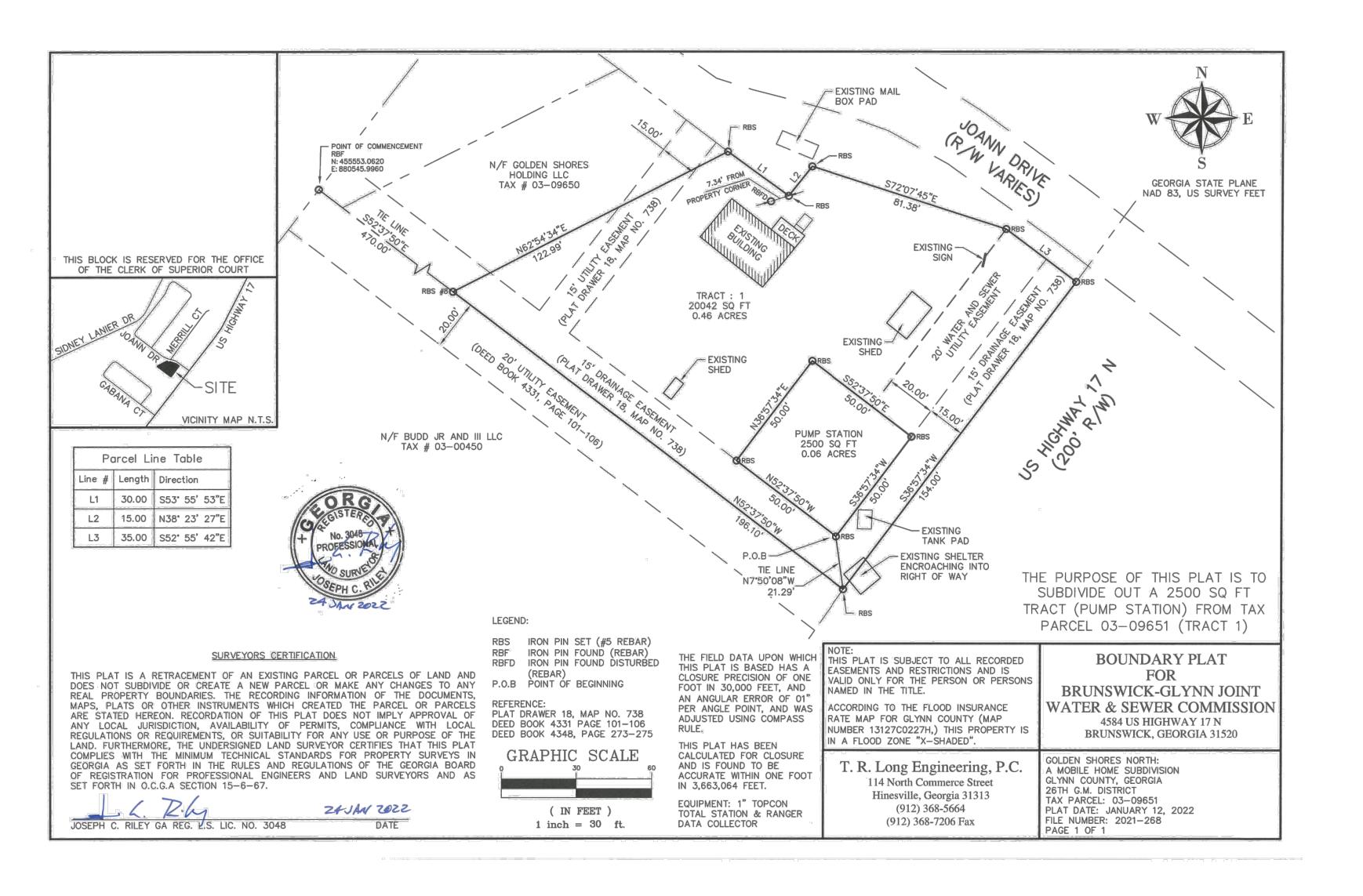
- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS. .
- 2. ALL PERMITS NECESSARY FOR CONSTRUCTION SHALL BE OBTAINED BY CONTRACTOR PRIOR TO WORK COMMENCEMENT.
- 3. ANY DEVIATION FROM THE PLANS ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
- 4. THE CONTRACTOR IS TO IMMEDIATELY CONTACT THE ENGINEER IF ANY UNFORESEEN COMPLICATIONS OR DISCREPANCIES OCCUR.
- 5. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF ALL UTILITIES ON SITE WITH THE APPROPRIATE PROVIDER (e.g. POWER, PHONE, CABLE, ETC.)
- 6. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE PHYSICAL CONSTRUCTION OF THE SITE.
- 7. CONTRACTOR TO NOTIFY AND ACQUIRE APPROVAL FOR ANY ENCROACHMENT NEEDED FROM ADJACENT BUSINESS OWNER.
- 8. CONTRACTOR SHALL MAINTAIN A SAFE SITE AND MEET ALL APPROPRIATE REGULATIONS CONCERNING SAFETY.
- 9. SURVEY INFO FROM AND SURVEY DONE BY T.R. LONG ENGINEERING, P.C., 114 NORTH COMMERCE STREET, HINESVILLE, GA 31313. TELEPHONE 912.368.5664. (DATED 01/24/2022)
- 10. EXISTING SURVEY INFORMATION TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY OWNER OF ANY DISCREPANCIES IN FIELD OBSERVATIONS VERSUS SURVEY DATA.
- 11. CONTRACTOR TO LOCATE & VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION & OBTAIN PROPER DIG TICKET THROUGH THE CALL BEFORE YOU DIG HOTLINE: 811.

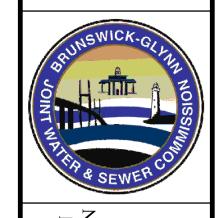


CALL BEFORE YOU DIG!

At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1-800-282-7411, to request underground utility locate service.



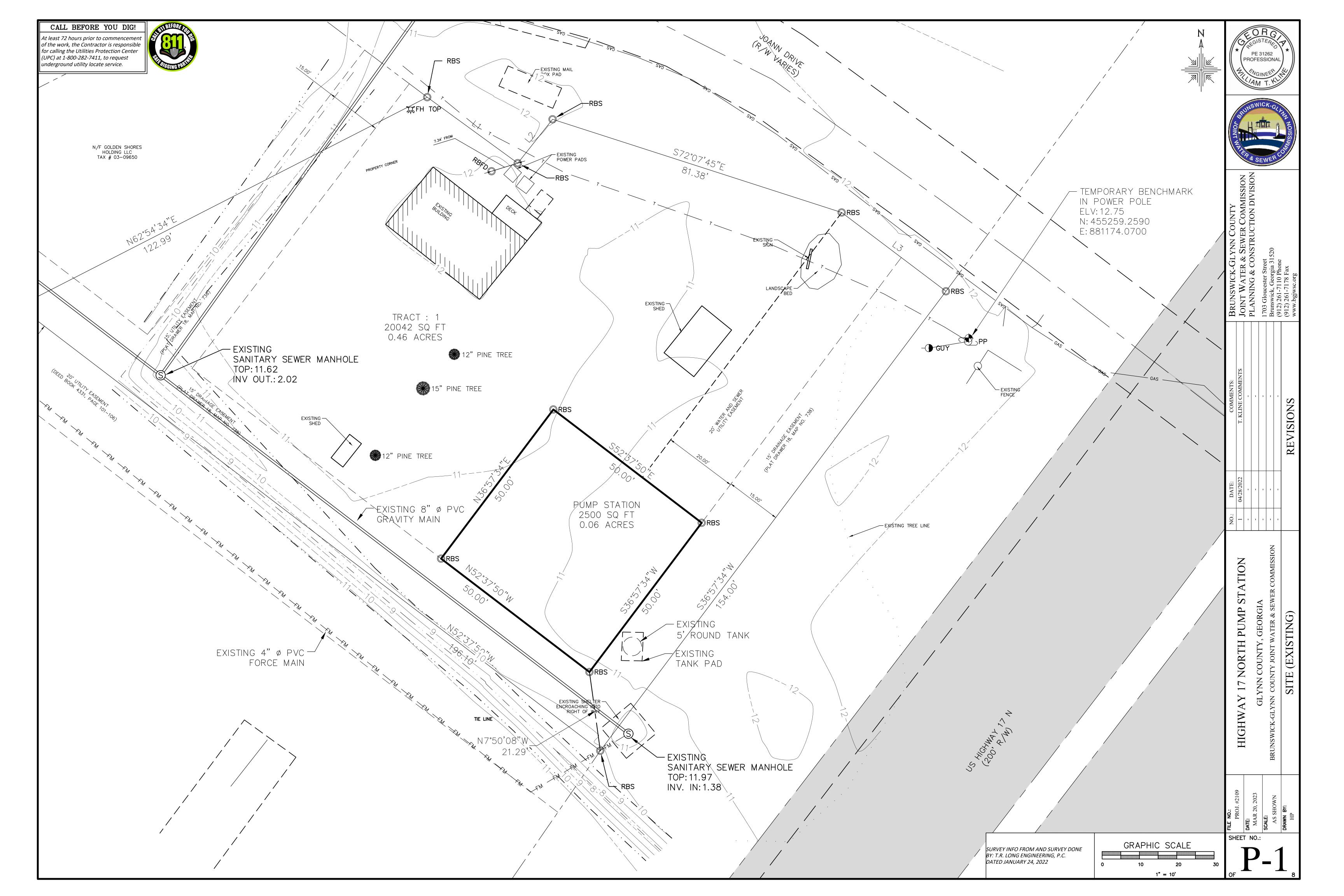


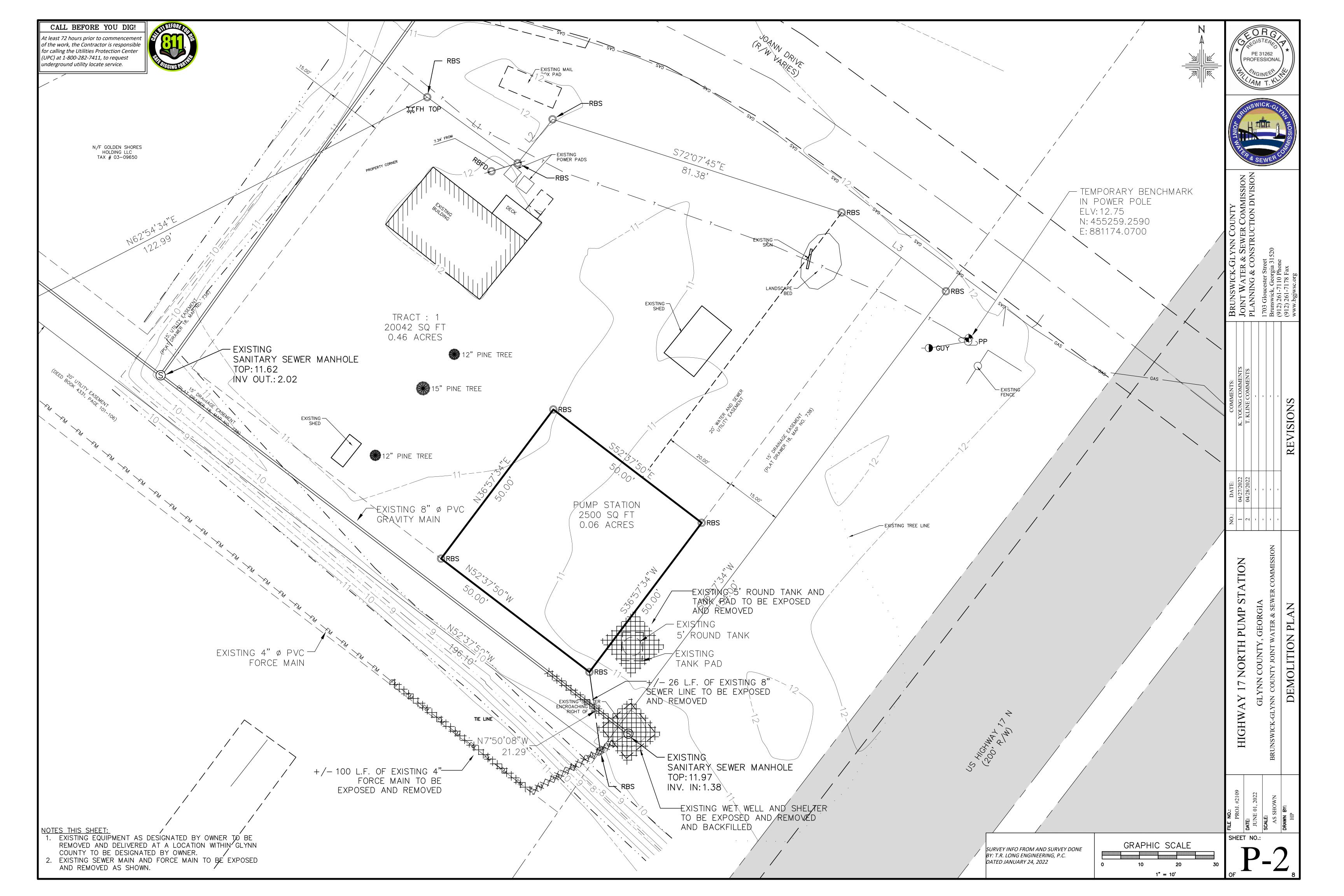


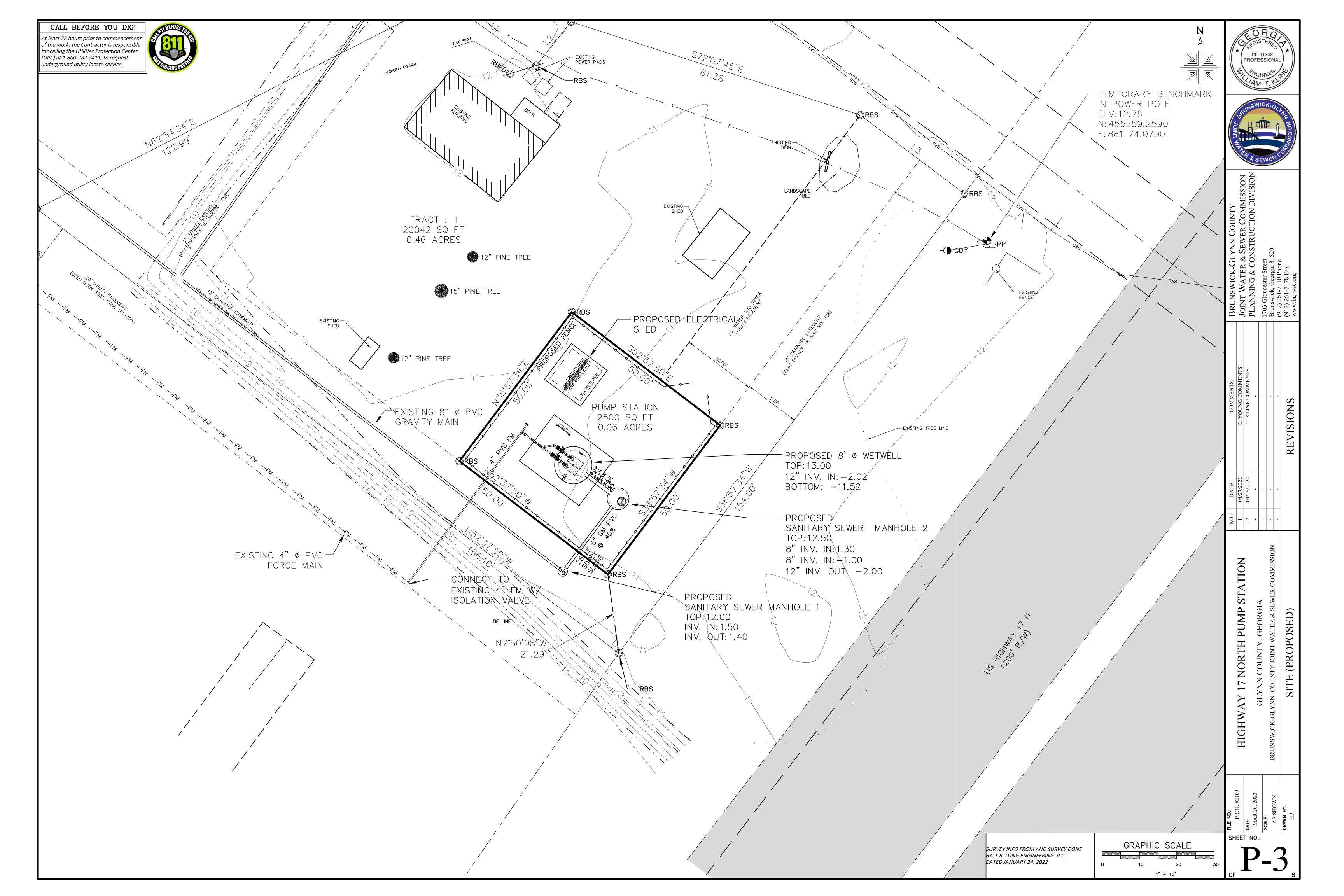
BRUNSWICK-GLYNN COUNTY	TOINT WATER & SEWIER COMMISSION	TOTAL WALENCE BEWEN COMMISSION	PLANNING & CONSTRUCTION DIVISION	1703 Gloucester Street	Brunswick, Georgia 31520	(912) 261-7110 Phone	(912) 261-7178 Fax www.bgjwsc.org
COMMENTS:		1			•		REVISIONS
NO.: DATE:	1			-	-	1	
	HIGHWAY 17 NORTH PIIMP STATION			GLYNN COUNTY, GEORGIA	BRINSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION		SURVEY PLAT
LE NO.:	PROJ. #2109	ATE:	MAR 20, 2023	A F.	A G GITOMBI	AS SHOWIN	RAWN BY: HP

SHEET NO.:

SURVEY INFO FROM AND SURVEY DONE BY: T.R. LONG ENGINEERING, P.C. DATED JANUARY 24, 2022







### **SITE REQUIREMENTS:**

FENCING SHALL BE 6-FEET HIGH CONSISTING OF 2-INCH MESH BY 9 GAUGE ALUMINUM COATED STEEL FABRIC WITH BLACK PVC COATING. THE FENCE SHALL HAVE A 7 GAUGE ALUMINUM COATED STEEL COIL SPRING TENSION WIRE ALONG THE BOTTOM OF THE FENCE FABRIC AND 3 STRANDS OF 12-1/2GAUGE ALUMINUM COATED STEEL BARBED WIRE ALONG THE TOP OF THE FENCE FABRIC. FENCE POSTS SHALL BE AS FOLLOWS:

- CORNER POSTS 3 INCH OD GALVANIZED
- LINE POSTS 2-1/2 INCH OD GALVANIZED

CORNER AND GATE POSTS SHALL HAVE NECESSARY STRUTS AND TIE BRACING WITH WATER TIGHT CLOSURE CAPS. GATE SHALL CONSIST OF A DOUBLE 8'-0" LONG 6' -0" HIGH SECTIONS AND SHALL BE EQUIPPED WITH A LATCH AND HASP ASSEMBLY. A GROUND ANCHOR CAST IN CONCRETE SHALL BE INSTALLED.

CONTROLS SHALL BE DESIGNATED TO AUTOMATICALLY TO OPERATE PUMPS IN RESPONSE TO EXCURSIONS IN LIQUID LEVEL AS SPECIFIED FOR THE STATION. CONTROL PANEL SHALL BE UL 508A CERTIFIED AND LISTED, COMPLETELY ASSEMBLED, WIRED, TESTED AND PROPERLY LABELED PRIOR TO SHIPMENT. CONTROL PANEL TO BE REUSED FROM SITE BY PREFERRED INTEGRATOR TO ENSURE COMPATIBILITY BETWEEN PUMPS AND CONTROLS.

THE PUMP CONTROLS SHALL BE HOUSED IN A NEMA 4X STAINLESS STEEL ENCLOSURE WITH 3PT PAD LOCKABLE LATCH AND ALUMINUM INNER DOOR. THE INNER DOOR SHALL BE 12 GAUGE WITH A 0.75-INCH 90 DEGREE BREAK ON ALL 4 SIDES. WIRING SHALL HAVE NO LESS THAN 600 VOLT INSULATION WITH A 75° CELSIUS RATING. THE ENCLOSURE SHALL BE ADEQUATELY SIZED TO PROVIDE PROPER SPACING OF THE EQUIPMENT AND HAVE A PROPERLY SIZED COOLING SYSTEM IF REQUIRED. AIR CONDITIONING WHERE APPLICABLE, OR HEAT EXCHANGER WHEN APPROVED BY JWSC.

- 1. SCADA PANEL WILL BE AVAILABLE FROM JWSC FOR PURCHASE. START-UP AND TERMINATION WILL BE COMPLETED BY EMC (205-661-3998). PLEASE ALLOW FOR TIME TO BE PLACED ON SCHEDULE WITH EMC.
- 2. PHASE MONITOR REQUIRED IN MCC PANEL MACROMATIC #PMPU
- 3. DANFOSS VFD NEMA 4X REQUIRED WITH 10 YEAR WARRANTY FOR JWSC.
- 4. INSTALLATION OF SEAL FAIL OR THERMAL RELAYS DEPENDENT TO ELECTRICAL CONTRACTOR INSTALLED INSIDE THE
- 5. EQUIPMENT SHED LIGHTING SHALL BE SWITCHED WITH OFF/AUTO/ON OUTDOOR RATED, LGITHS TO BE LITHONIA DMS232120 OR APPROVED EQUAL SECURED TO SHELTER STRUCTURE WITH 0 DEGREE F RATED ELECTRONIC
- 6. 480 VOLT REQUIRED FOR USE WITH 5 KVA NEMA 3R TRANSFORMER, CONTACT AND COORDINATE WITH GA POWER FOR INSTALL.

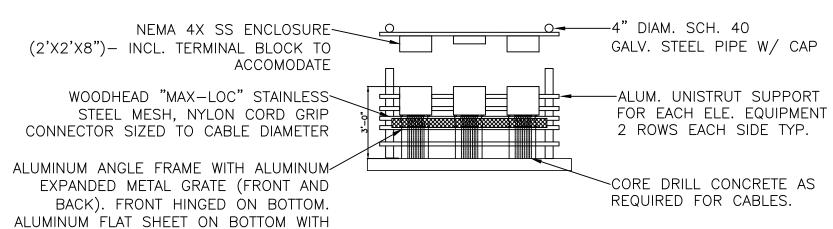
REQUIRES ONE 110V CIRCUIT FROM LOW VOLTAGE PANEL.

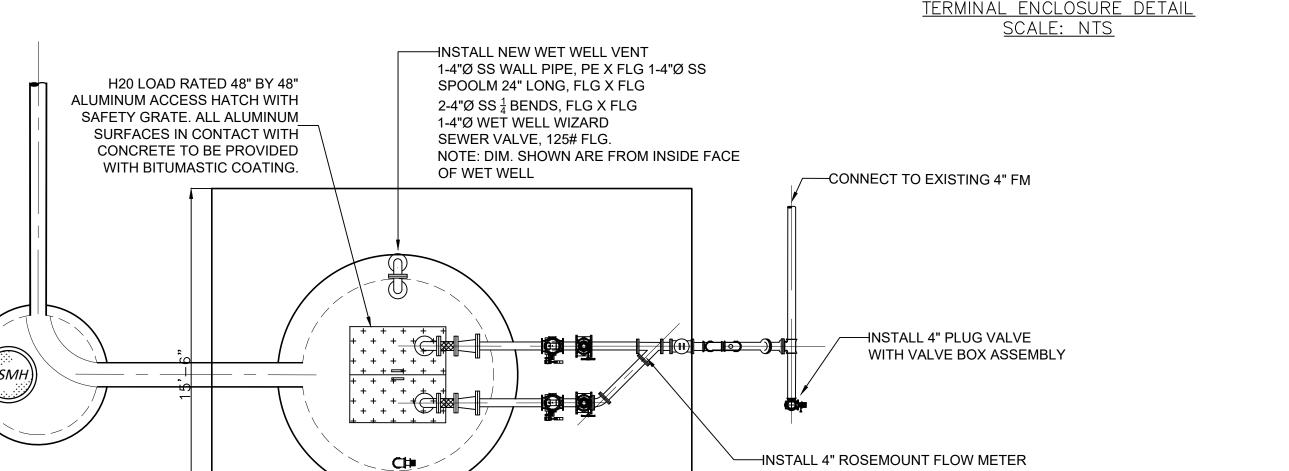
HORN AND EMERGENCY LIGHT TO BE INSTALLED IN VISUAL LOCATION FROM ROADWAY. LIGHT/HORN INCLUDED WITH SCADA PANEL.

VEGA C-21 RADAR TO BE INSTALLED IN WET WELL USING S.S. HARDWARE.

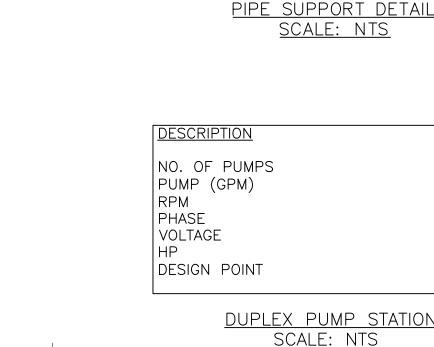
### **SITE REQUIREMENTS:**

THE ENTIRE SITE AND ACCESS ROAD SHALL BE COVERED WITH A GEOTEXTILE FILTER FABRIC COVERED WITH GAB. TREAT GRAVELED AREA WIT A HIGH QUALITY. LONG LASTING, EPA ENVIRONMENTALLY APPROVED WEED KILLER.





(3) 3" WEEP HOLES EVENLY SPACED.



CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS

FABRICATION. NOTIFY OWNER (JWSC) IMMEDIATELY IF

CONCRETE SHALL BE OF NORMAL WEIGHT (150 PCF)

STRENGTH OF 4000 PSI AT 28 DAYS. (INCLUDE POLY

CONCRETE FINISH TO BE NON-SLIP. BROOMED FINISH

60, HAVING A MINIMUM YIELD STRENGTH OF 60 KSI.

TOP VIEW

<u>INITIAL</u>

230 3495

480

81.5

REINFORCING SHALL CONFORM WITH ASTM A615, GRADE

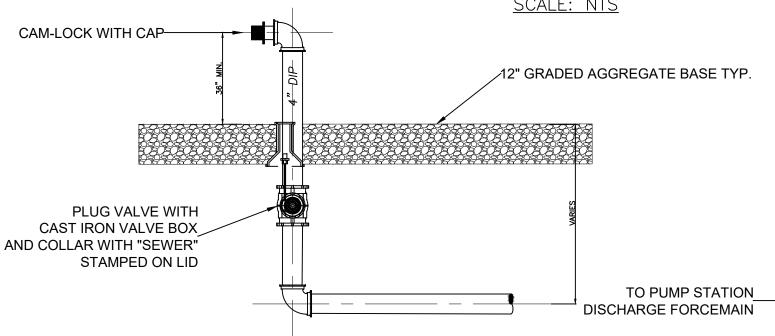
AND SHALL DEVELOP A MINIMUM COMPREHENSIVE

FIBER MIX OF \$\frac{3}{4}\text{lb. PER CU. YARD (MIN.)}

& CONDITIONS PRIOR TO CONSTRUCTION OR

CONFLICTS OR CHANGES ARISE.

**CONCRETE NOTES:** 



SCALE: NTS 4-INCH FF HDPE RISER IPS DR-11 (CONTRACTOR TO DETERMINE LENGTH) INSTALL CAM-LOK FITTING WITH CAP —6" THICK CONCRETE SLAB REINFORCED WITH #4'S @ 12" OCEW -ALL INTERIOR CONCRETE SURFACES TO BE PROTECTED WITH 1" MIN. THICK

> (2) VARIABLE SPEED SUBMERSIBLE PUMPS BASIS OF DESIGN: EACH PUMP TO MEET A MIN. FLOW RATE OF 230 GPM PER PUMP MOTOR: 480 V, 3PH., 60HZ PUMP HP TO BE DETERMINED BY PUMP MANUFACTURER PROVIDE THE FOLLOWING WITH EACH PUMP: DISCHARGE CONNECTION, 304 SS GUIDE RAILS, 304 SS INTERMEDIATE GUIDE BAR BRACKETS, 304 SS UPPER GUIDE BAR BRACKET, 316 SS LIFTING CHAIN & 304 SS CABLE HOLDER, 50' EACH POWER & CONTROL CABLES, ANCHOR DISCHARGE CONNECTION TO WETWELL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. ALL ANCHOR BOLTS AND FASTENERS TO BE STAINLESS STEEL SET IN EPOXY OR HYDRO REACTIVE URETHANE TYP. INSTALL UPPER GUIDE BRACKET ACCORDING TO MANUFACTURER'S REFERENCE LINE & INSTRUCTIONS WITH S.S. HARDWARE. (TO BE PROVIDED BY JWSC).

CORROSION RESISTANT LINING, SEWPERCOAT, OR

APPROVED EQUAL. INSTALL ACCORDING TO

MANUFACTURER'S WRITTEN INSTRUCTIONS.



SECTION VIEW

CALL BEFORE YOU DIG! At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1-800-282-7411, to request underground utility locate service.





OUNT 1 COMMISSION CTION DIVISION

N CO WER IRUC SE -GL R & CO BRUNSWICK-JOINT WATER PLANNING & jeo 10 78

REVISION

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SHEET NO.:

## **GENERAL CONSTRUCTION NOTES:**

- 1. CONTRACTOR SHALL COORDINATE AND SCHEDULE WITH THE OWNER (JWSC) ANY SYSTEM SHUTDOWNS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 2. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER JOINT WATER & SEWER COMMISSION CONTACT TODD KLINE, P.E. AT 912-261-7122.
- 3. CONTRACTOR SHALL PROVIDE AND MAINTAIN BY-PASS PUMPING DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PREPARE & SUBMIT A BY-PASS PLAN TO THE ENGINEER AND/OR THE JWSC FOR
- REVIEW AND APPROVAL 4. ALL WORK TO BE PERFORMED THAT IS NOT DEFINED BY THE CONTRACT DOCUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE,
- COUNTY AND/OR LOCAL CODES. 5. CONTRACTOR TO PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SUFFICIENT LIGHTING, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE DURATION OF THE OF THE PROPOSED CONSTRUCTION IMPROVEMENTS.
- THE UTILITIES SHOWN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IS SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF WORK. DAMAGES MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL
- BE REPAIRED AT NO EXPENSE TO THE OWNER. 7. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL NOTIFY ALL UTILITY OWNER AT LEAST 72 HOURS PRIOR TO CONSTRUCTION (811 OR 800-282-7411). ANY CONFLICTS SHALL BE IMMEDIATELY REPORTED TO
- THE OWNER. 8. CONTRACTOR SHALL NOTIFY USING AGENCY AT LEAST 72 HOURS IN ADVANCE IF ANY UTILITY SERVICE (E.G. WATER, SEWER, GAS, POWER, TELEPHONE, ETC.) IS TO BE TEMPORARILY INTERRUPTED IN ORDER TO CONSTRUCT IMPROVEMENTS.
- 9. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED STATE & LOCAL
- PERMITTING FOR CONSTRUCTION. 10. EXISTING DISCHARGE PIPING & VALVING TO BE REMOVED AND DELIVERED

11. CONTRACTOR TO SANDBLAST ALL METAL SURFACES TO WHITE CONDITION

- (BARE, CLEAN METAL) & RE-COAT PER SPECIFICATIONS. 12. ALL FLANGED DUCTILE IRON PIPE AND FITTINGS TO BE FIELD PAINTED IN ACCORDANCE WITH JWSC STANDARDS AND SHALL BE INTERNALLY LINED WITH PROTECTO 401 SEWER SAFE LINING FOR RAW SEWAGE
- 46-46, TNEMECOLOR OR APPROVED EQUAL). 13. ALL BURIED DI FITTINGS SHALL BE MECHANICAL JOINT WITH MEGA-LUG

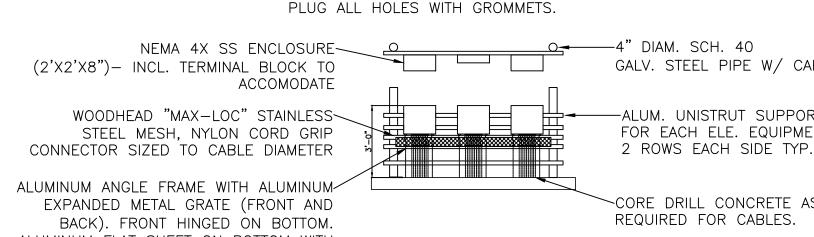
APPLICATIONS. ANY DUCTILE IRON PIPE AND FITTINGS INSIDE THE WET

WELL SHALL RECEIVE TWO COATS OF COAL TAR EPOXY (TNEMEC SERIES

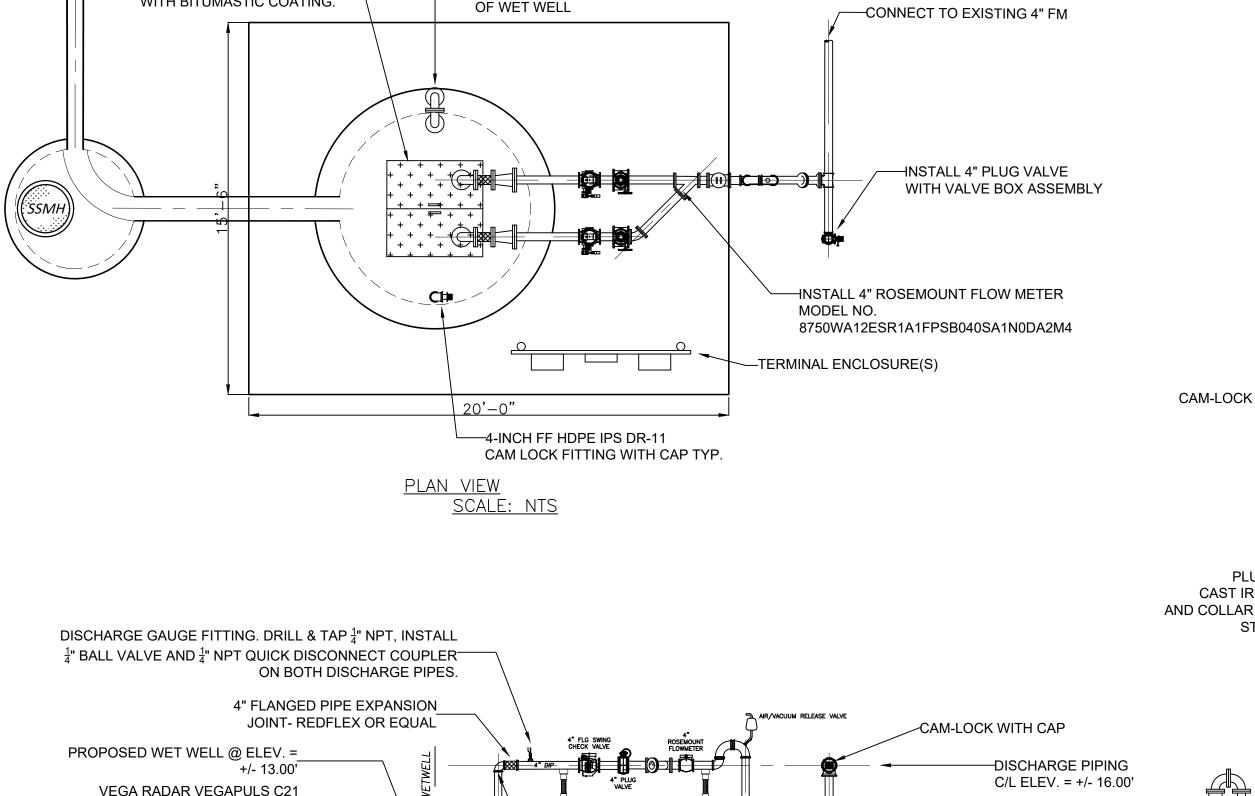
- 14. ALL METALLIC FASTENERS & HARDWARE TO BE 316 STAINLESS STEEL.
- 15. USE LINK-SEAL ON ALL VAULT PENETRATIONS.
- 16. COORDINATE WITH JWSC WATER DISTRIBUTION DIVISION FOR RELOCATION
- OF EXISTING WATER SERVICE(S). 17. CONTRACTOR TO COORDINATE WITH GA POWER FOR NEW SERVICE POWER POLE AND METER SET.

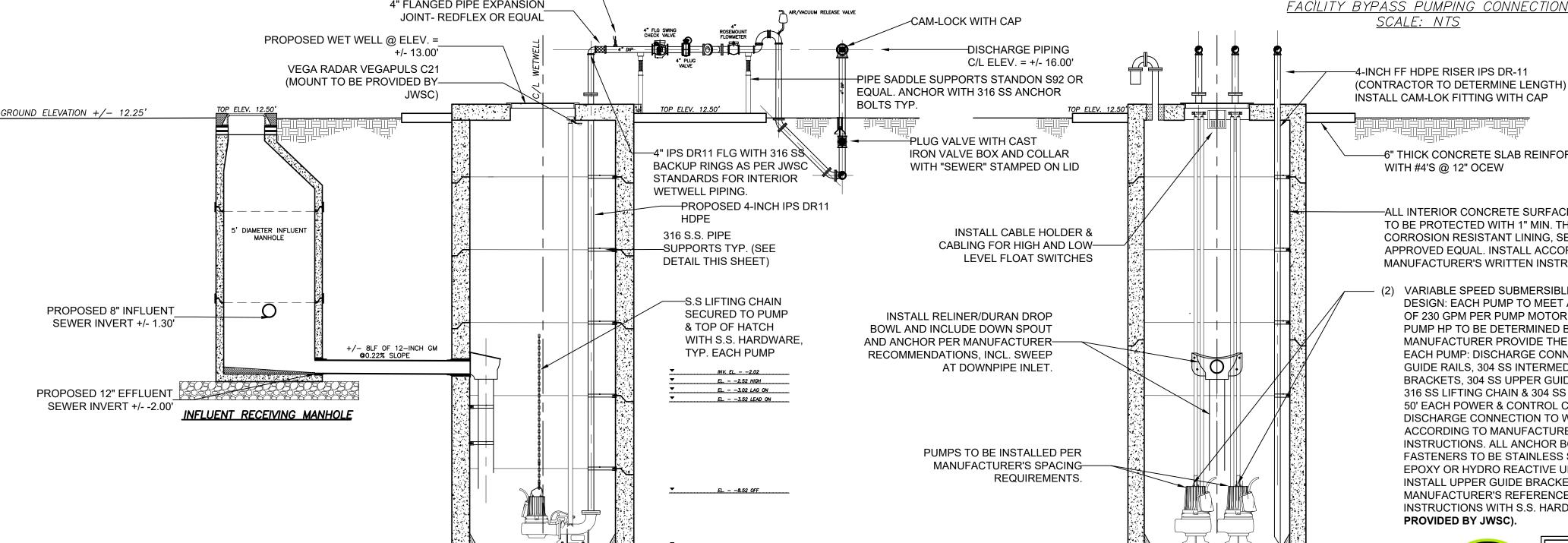
TERMINAL ENCLOSURE NOTES:

PROVIDE TERMINALS AS REQUIRED FOR POWER AND SIGNAL CABLE (FLOAT SWITCH) TERMINATIONS. PROVIDE 10% SPARE TERMINALS, MAKE CONNECTIONS PER PUMP MFR'S RECOMMENDATIONS. MAINTAIN 3" MIN. AC-DC SEPARATION IN TERMINAL ENCLOSURE. ROUTE CABLES WITH CORD GRIPS FOR WETWELL ORIGINATION TERMINATIONS. PVC CONDUIT TO CORDINATED PANELS,



TERMINAL ENCLOSURE DETAIL



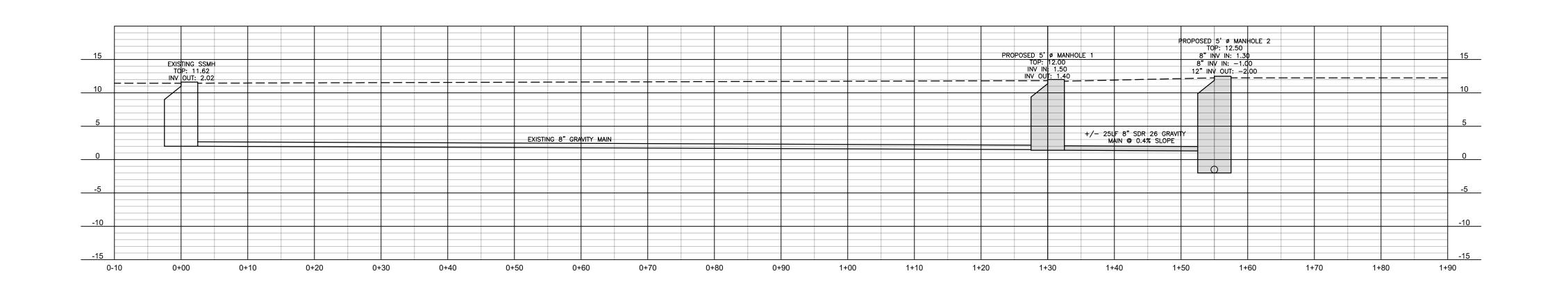


BOTTOM EL. -11,52

-12" #57 STONE BEDDING WRAPPED IN CONTECH WOVEN GEOTEXTILE, SECTION VIEW

SCALE: NTS

TYPE C-300, OR APPROVED EQUAL



PE 31262 PROFESSIONAL

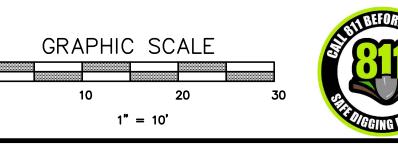


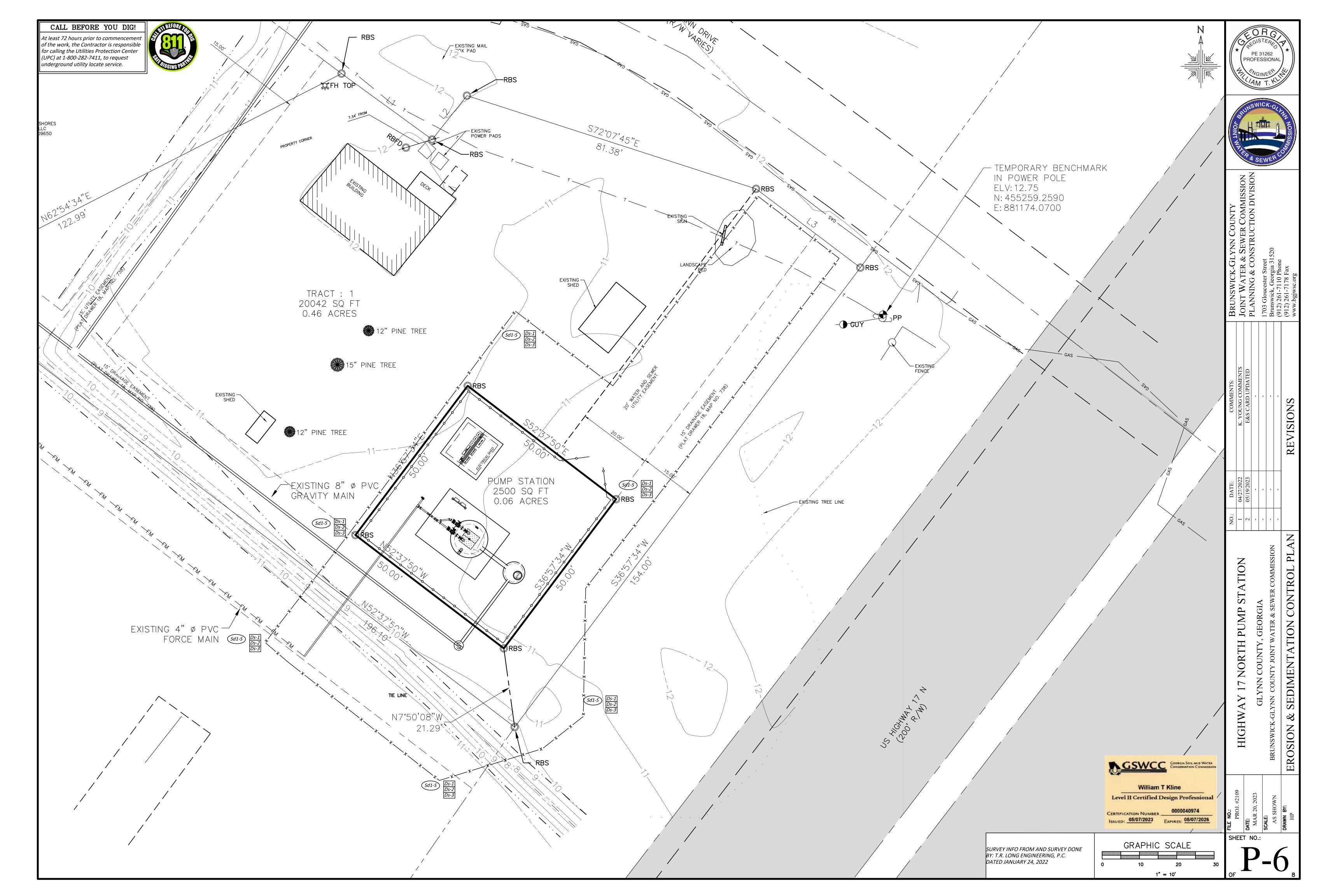
BRUNSWICK-GLYNN COUNTY
JOINT WATER & SEWER COMMISSION
PLANNING & CONSTRUCTION DIVISION
1703 Gloucester Street
Brunswick, Georgia 31520
(912) 261-7110 Phone
(912) 261-7178 Fax
www.bgjwsc.org REVISIONS

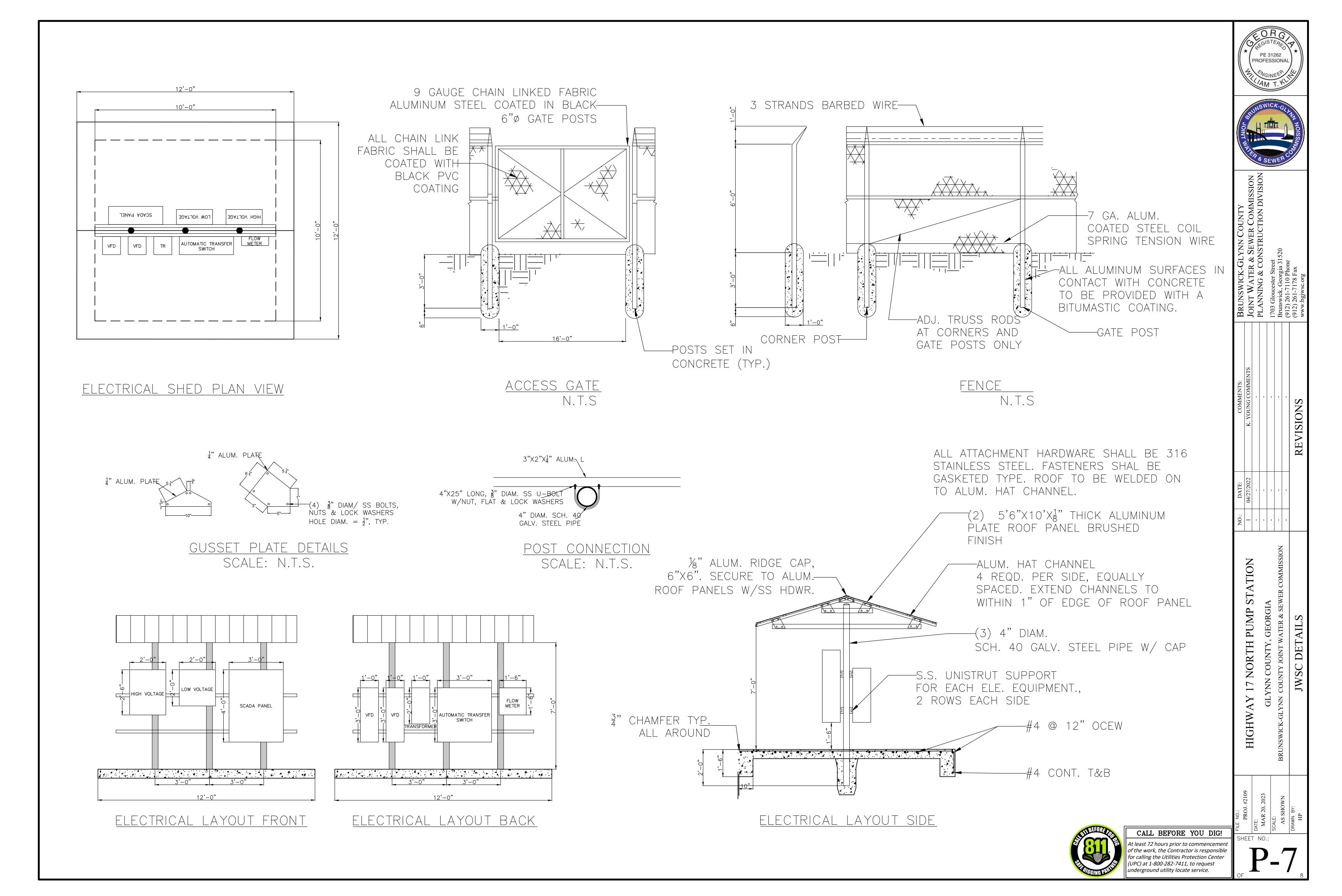
HIGHWAY 17 NORTH PUMP STATION

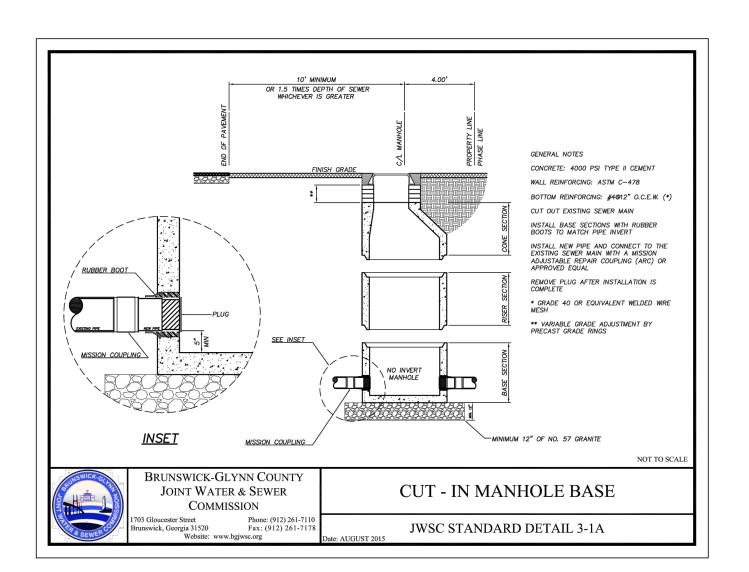
CALL BEFORE YOU DIG!

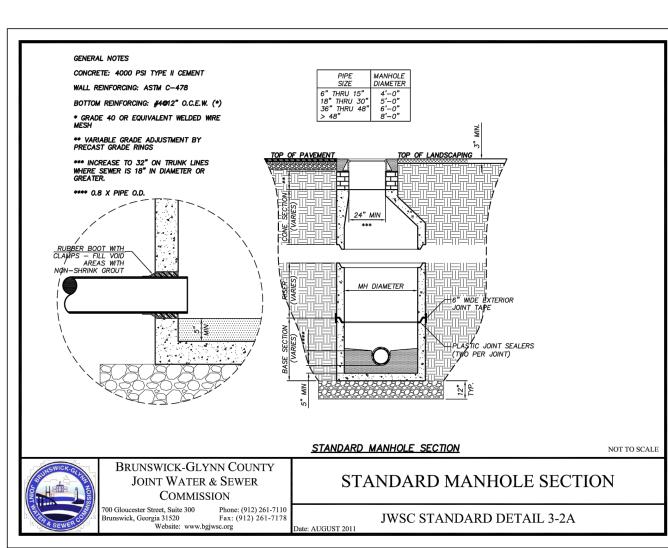
At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1-800-282-7411, to request underground utility locate service.

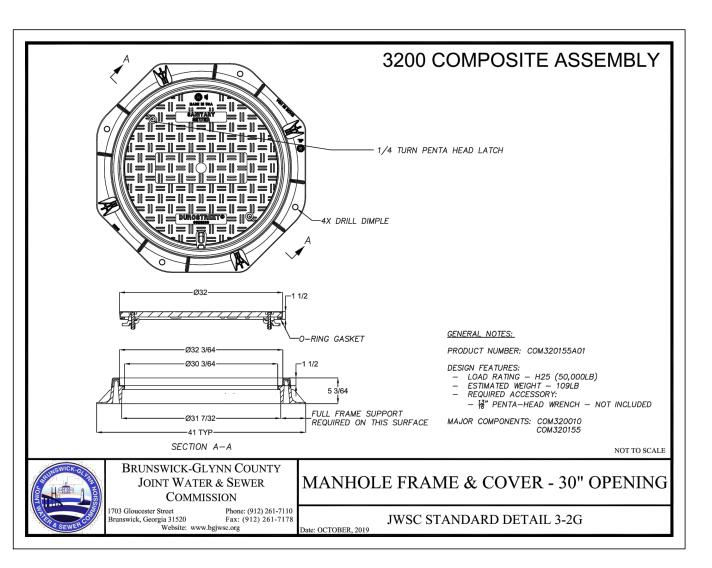


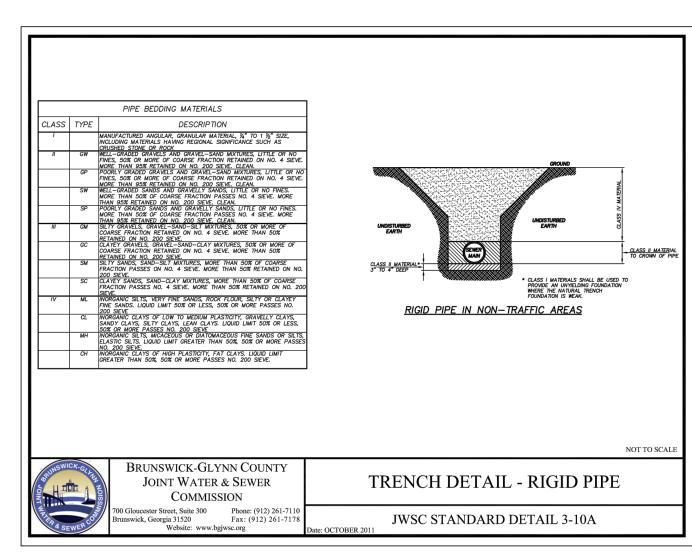


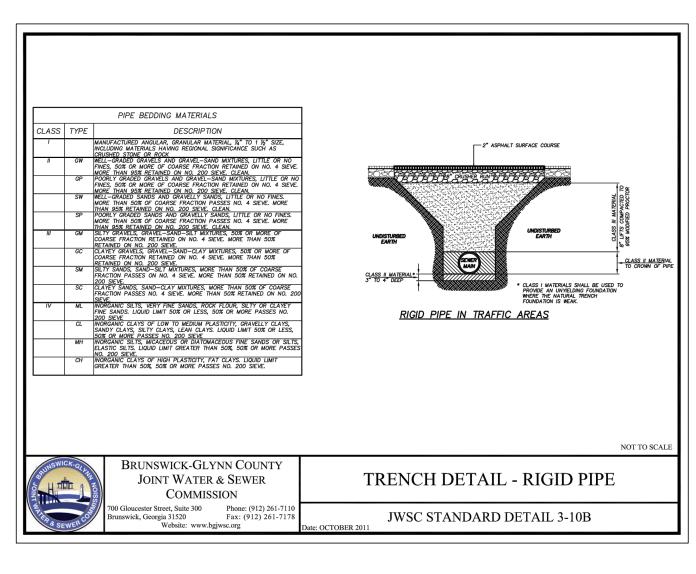


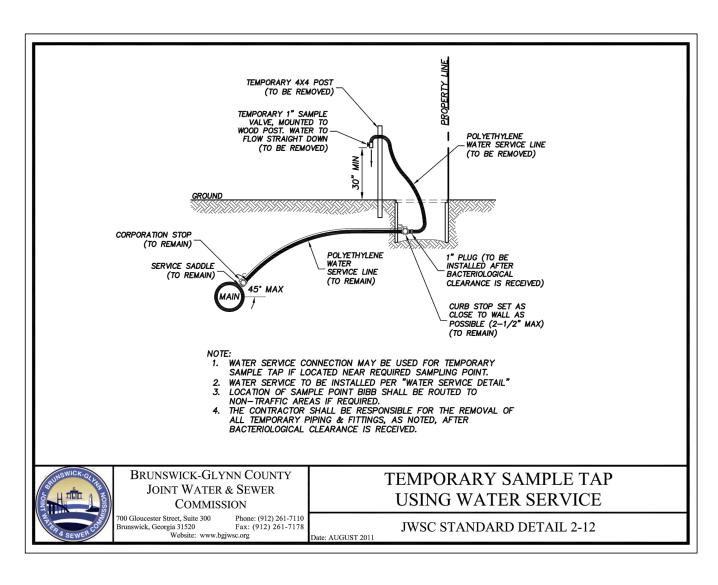


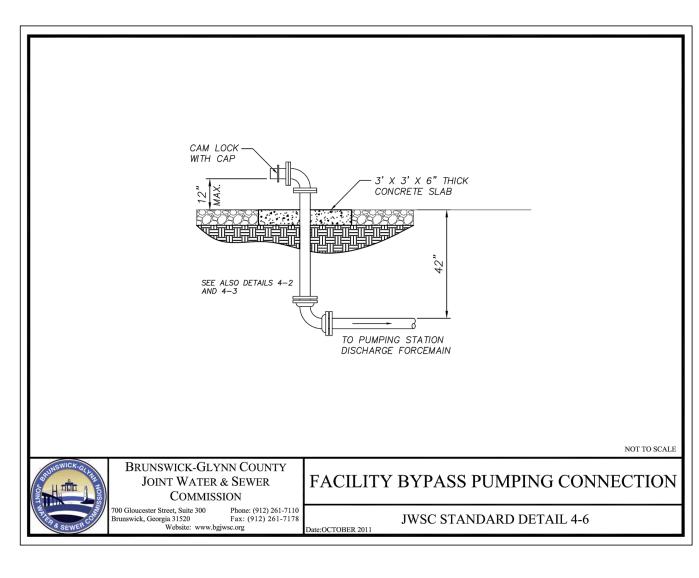


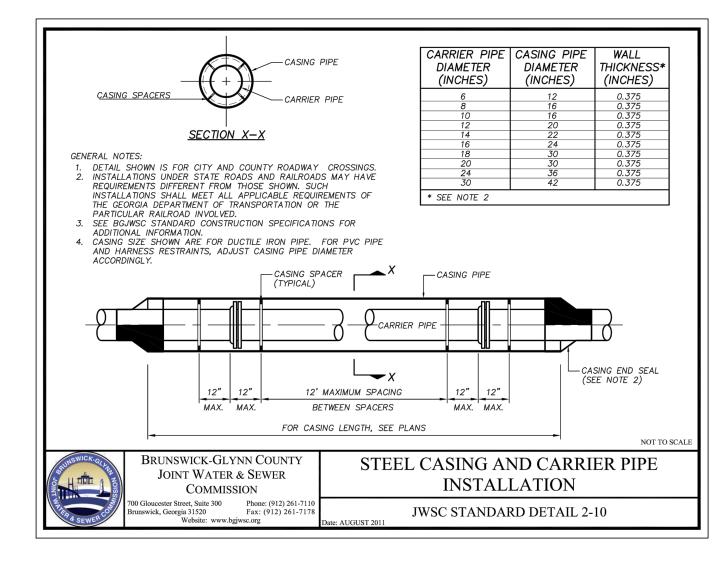


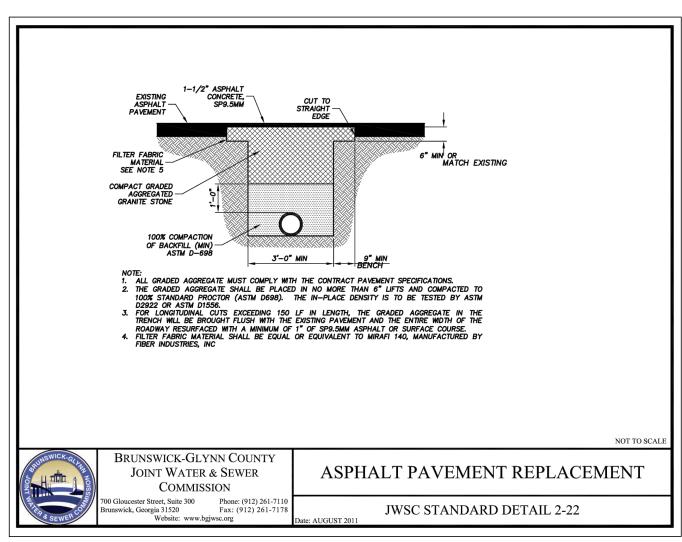


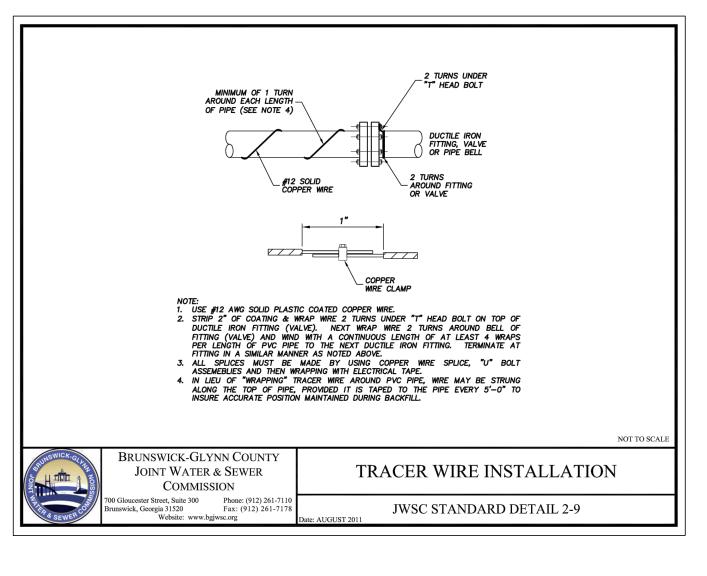


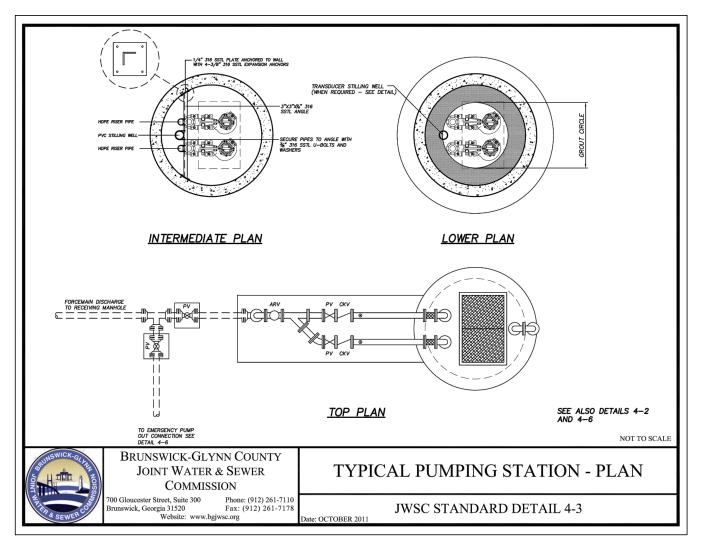


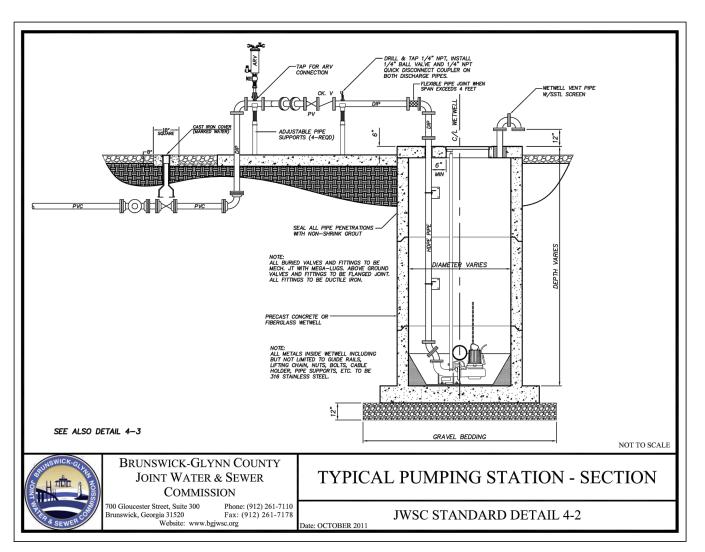




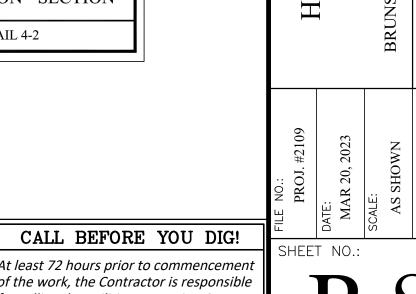




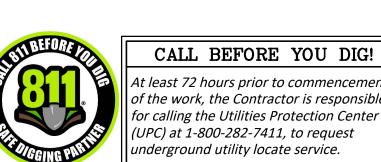






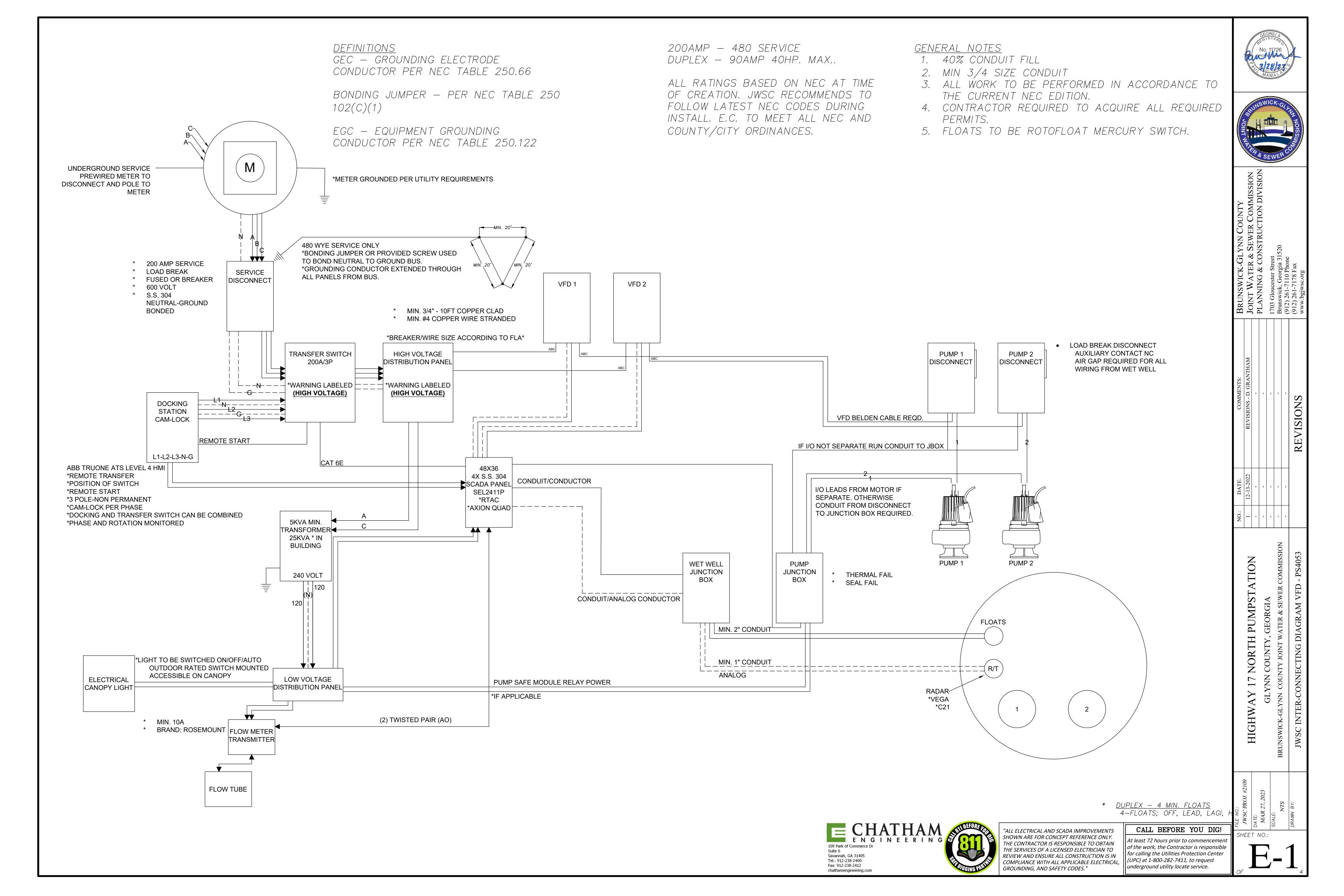


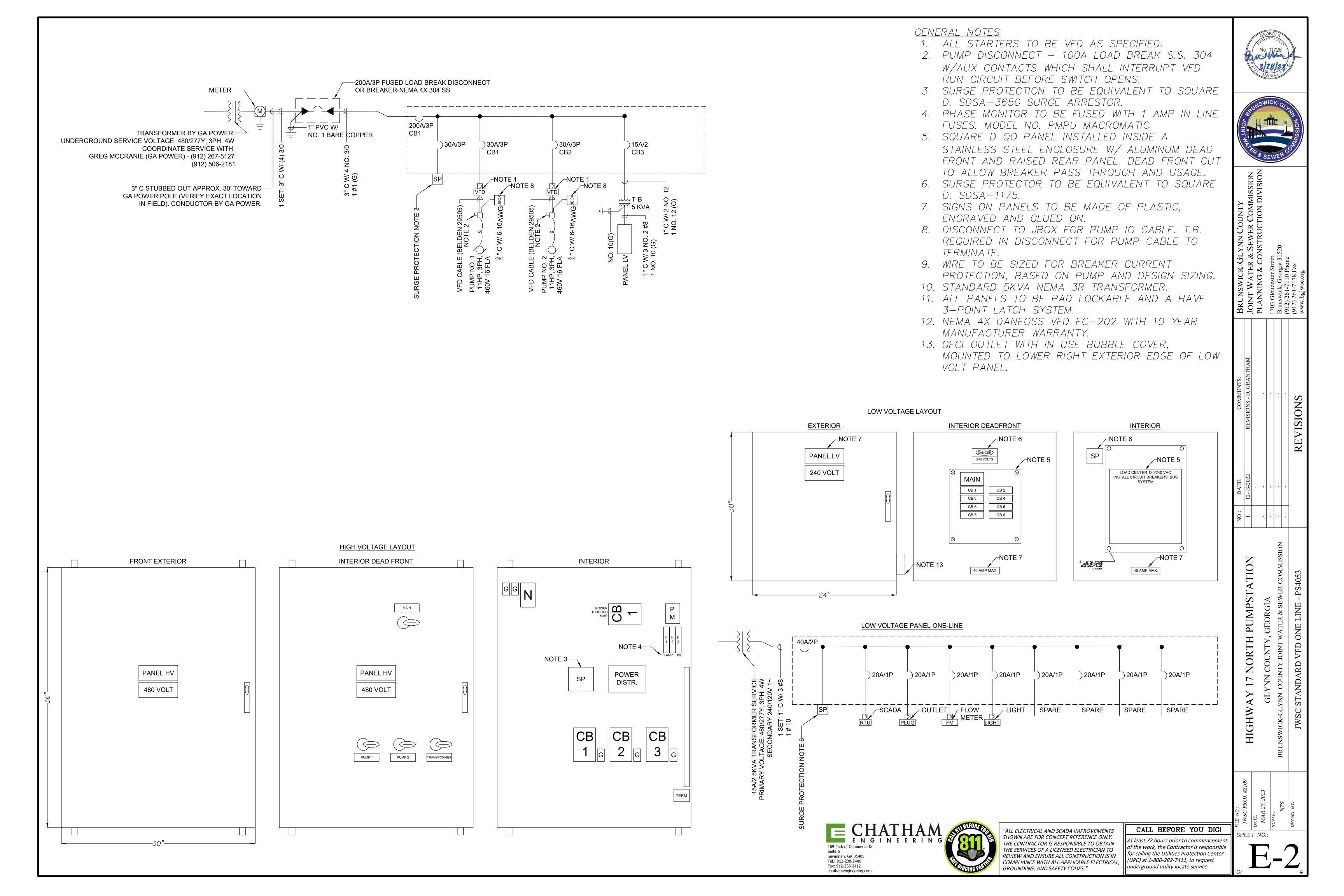
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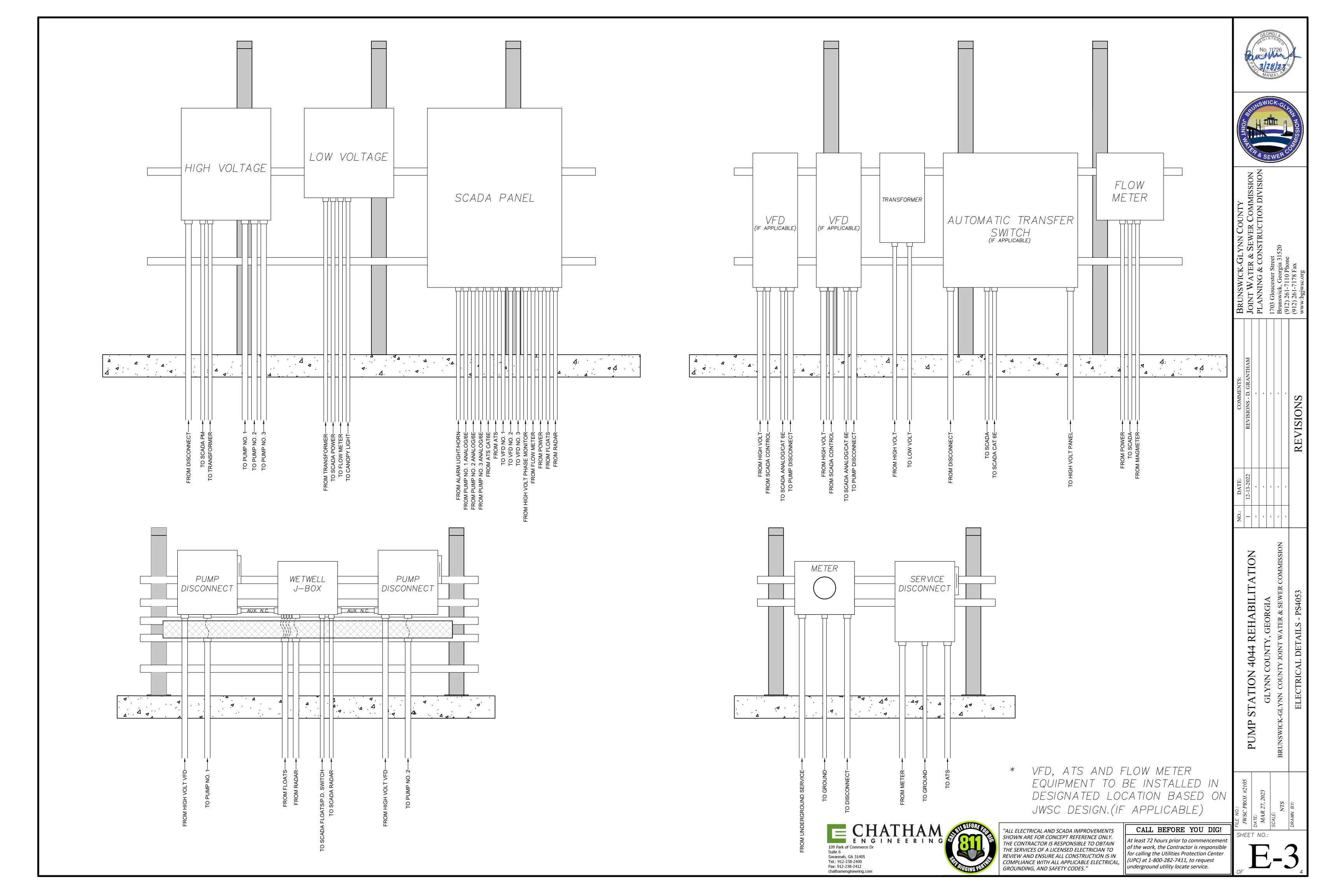




-GLYNN COUNTY R & SEWER COMMISSION CONSTRUCTION DIVISION







# **ELECTRICAL REQUIREMENTS:**

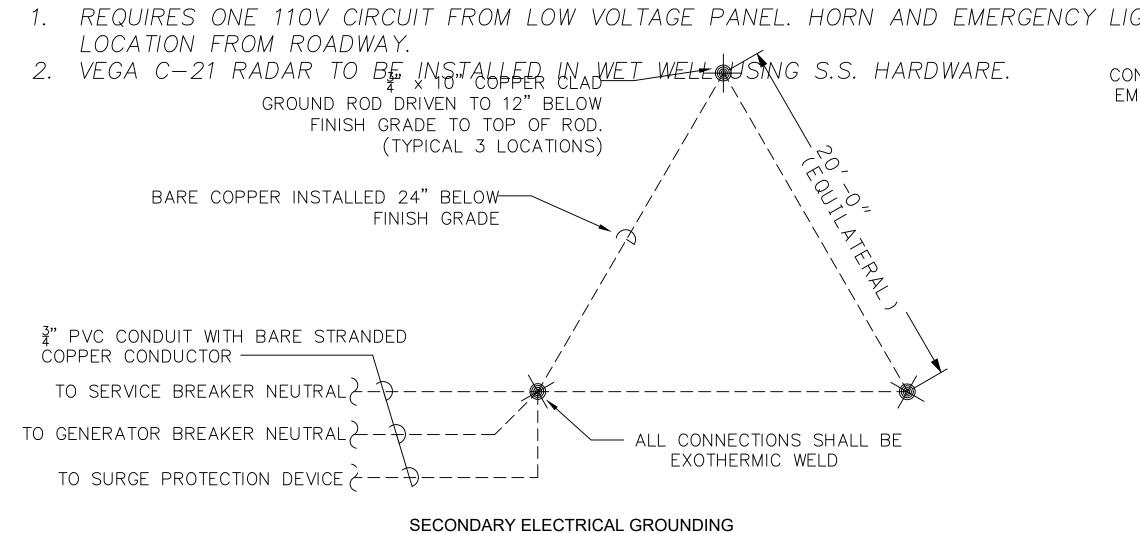
- 1. CONTACT AND COORDINATE WITH LOCAL ELECTRICAL UTILITY SERVICING THE PARTICULAR AREA OF WORK.
- 2. THE EXACT LOCATION OF SERVICE SHALL BE COORDINATED IN THE FIELD WITH OTHER WORK ON THE PROJECT SITE AND THE ELECTRICAL UTILITY. PROVIDE AERIAL OR UNDERGROUND SERVICE AS REQUIRED BY THE UTILITY AND PROJECT REQUIREMENTS.
- 3. THE SERVICE METER SHALL BE PROVIDED IN ACCORDANCE TO THE ELECTRICAL UTILITY STANDARDS. PROVIDE METER GROUND AS REQUIRED.
- 4. SCADA PANEL WILL BE AVAILABLE FROM JWSC FOR PURCHASE. START-UP AND TERMINATION WILL BE COMPLETED BY EMC (205-661-3998). PLEASE ALLOW FOR TIME TO BE PLACED ON SCHEDULE WITH EMC. COORDINATE WITH EMC FOR START-UP AND TESTING.
- 5. DANFOSS VFD NEMA 4X FC-202 REQUIRED WITH 10 YEAR WARRANTY FOR JWSC. (IF APPLICABLE)
- 6. ALL CONDUIT INSTALLED SHALL BE ACCORDING TO NEC AND UTILIZING THE BEST PATH POSSIBLE WITH MINIMAL INTERFERENCE WITH OTHER UTILITIES.
- 7. CONTRACTOR TO INSTALL DETECTABLE WARNING TAPE 12" ABOVE ALL UNDERGROUND CONDUIT.
- 8. ALL CONDUITS ENTERING NEMA 4X ENCLOSURES SHALL BE TERMINATED WITH THREADED HUBS TO MAINTAIN THE NEMA RATING OF THE ENCLOSURE UNLESS NOTED OTHERWISE.
- 9. FOR TERMINATION OF CONDUITS AT JUNCTION BOXES AND PUMP DISCONNECTS PROVIDE SEALING HUBS. FOR CONNECTIONS FROM WETWELL, PROVIDE CORDGRIPS ACCORDING TO WIRE SIZE.
- 10. SEAL ALL CONDUITS WITH ELECTRICAL DUCT SEAL.
- 11. ALL SWITCH OPERATING HANDLES SHALL BE MAXIMUM OF 66-INCHES ABOVE FINISH GRADE.
- 12. FURNISH STAINLESS STEEL BOLTS, NUTS AND WASHERS FOR ALL EQUIPMENT.
- 13. POSITION ELECTRICAL ALARM LIGHT TO BE SEEN FROM THE NEAREST ROAD.ATTACHED TO CANOPY LEGS OR STRUCTURE USING ONLY S.S. HARDWARE.
- 14. PROVIDE IN WETWELL HATCH WINDOW A STAINLESS STEEL BRACKET FOR SUPPORT OF ALL CABLES WITH A MINIMUM 5 HOOKS.
- 15. METER EQUIPMENT TO BE MOUNTED AT A MIN. 3'-6" AND MAX. 5'-6" ABOVE FINAL GRADE.
- 16. AIR GAP BOX TO BE A MIN. OF 12" X 12" X 60" ALUMINUM ANGLE FRAME WITH ALUMINUM EXPANDED METAL FRONT AND REAR. FRONT HINGED ON BOTTOM. FLAT ALUMINUM SHEET ON BOTTOM AND TOP. WEEP HOLES PLACED ON ALL FOUR CORNERS.
- 17. WETWELL CONDUITS STUB 1" INTO AIR GAP CAGE TYP.
- 18. MINIMUM SPACING BETWEEN WETWELL AND DISCONNECTS IS 6'-0".
- 19. CABLES LEADS TO BE A MINIMUM OF 50'-0" IN LENGTH.
- 20. ATS TO BE ABB TRUEONE WITH LEVEL 4 CONTROLLER PAIRED WITH CAM-LOCK DOCKING STATION. (IF REQUIRED BY JWSC).
- 21. FLOATS TO BE ROTOFLOAT MERCURY TYPE MODEL "S" 60FT CABLE TYP.
- 22. INSTALLATION OF SEAL FAIL OR THERMAL RELAYS COORDINATED BY ELECTRICAL CONTRACTOR AND EMC INSTALLATION AREA INSIDE THE SCADA PANEL OR WET WELL JUNCTION BOX.
- 23. EQUIPMENT CANOPY LIGHTING SHALL BE SWITCHED WITH OFF/ON OUTDOOR RATED, LIGHTS TO BE LITHONIA DMS232120 6500K LED OR APPROVED EQUAL SECURED TO SHELTER STRUCTURE WITH O DEGREE F RATED ELECTRONIC BALLAST.
- 24. ALL CONDUITS TO BE SCHEDULE 40 PVC.
- 25. ALL CONDUCTORS TO BE STRANDED COPPER, TYPE THWN. COLOR CODE: 480/277V: PH A:BROWN; PH B:YELLOW; PH C: ORANGE; NEUTRAL: GRAY; 230/115V — PH A: BLACK; PH C: RED; NEUTRAL: WHITE; GROUND: GREEN.

# **TERMINAL ENCLOSURE NOTES:**

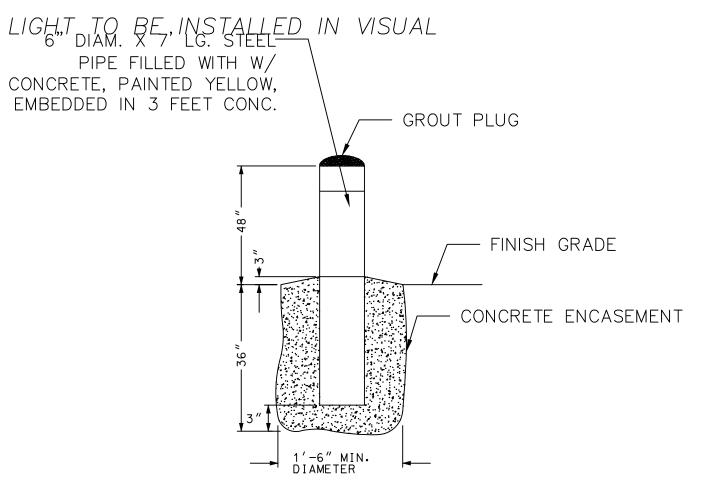
- 1. PROVIDE TERMINALS AS REQUIRED FOR POWER AND SIGNAL CABLE (FLOAT SWITCH) TERMINATIONS. PROVIDE 10% SPARE TERMINALS, MAKE CONNECTIONS PER PUMP MFR'S RECOMMENDATIONS. MAINTAIN 3" MIN. AC-DC SEPARATION IN TERMINAL ENCLOSURE. ROUTE CABLES WITH CORD GRIPS FOR WETWELL ORIGINATION TERMINATIONS. PVC CONDUIT TO CORDINATED PANELS, PLUG ALL HOLES WITH GROMMETS.
- 2. MINIMUM SIZE OF THE JUNCTION BOX SHALL BE 12"X12"X6". FURNISH NEMA 4X STAINLESS STEEL JUNCTION BOX WITH  $\frac{1}{2}$  TURN DOOR LATCH AND ALUMINUM BACK PLATE.

# **SCADA NOTES:**

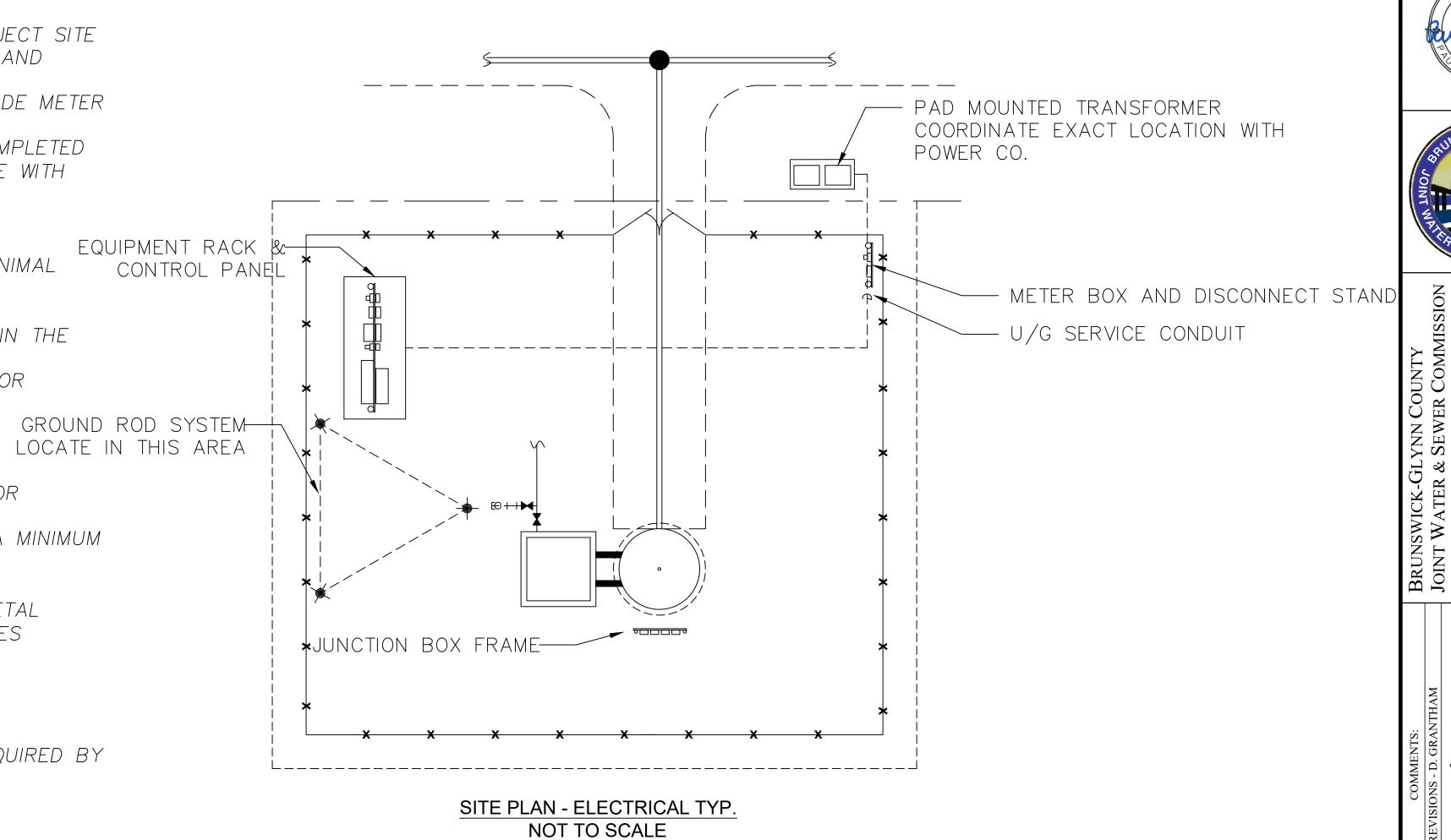
1. REQUIRES ONE 110V CIRCUIT FROM LOW VOLTAGE PANEL. HORN AND EMERGENCY LIGHT TO BE, INSTALLED IN VISUAL LOCATION FROM ROADWAY. PIPE FILLED WITH W/

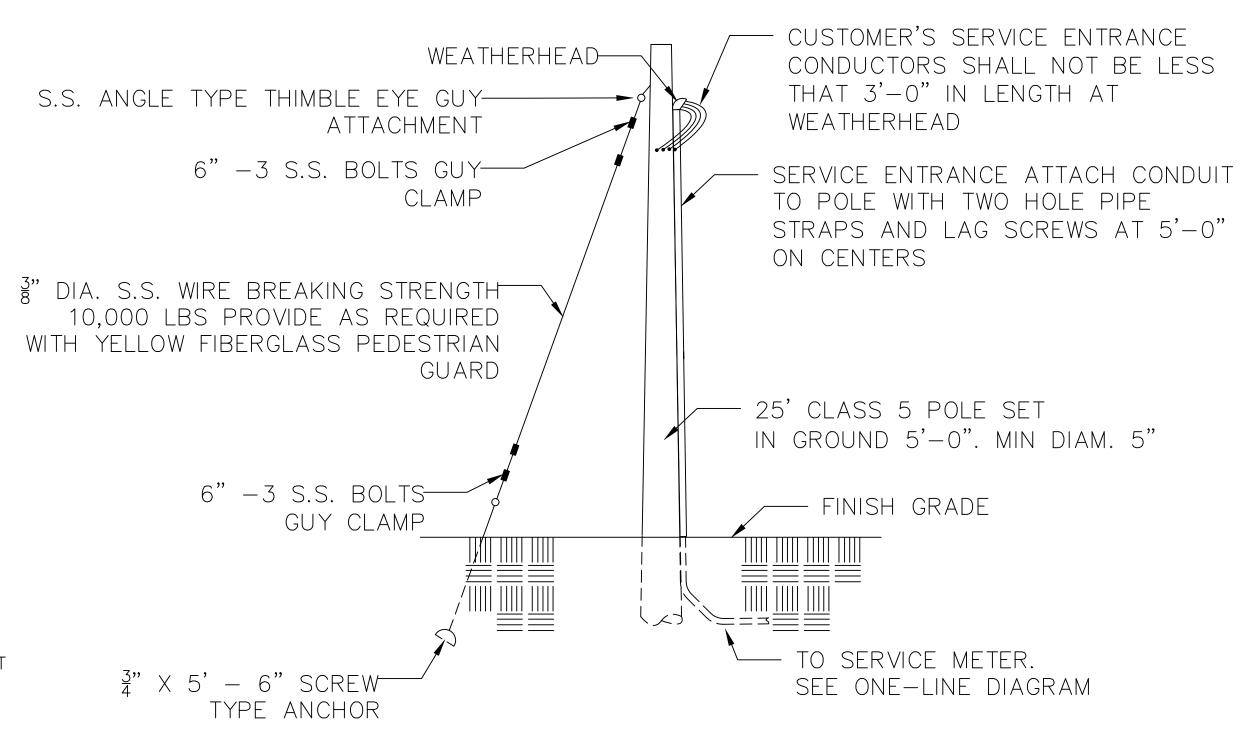


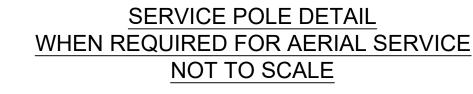
NOT TO SCALE



**BOLLARD DETAIL** NOT TO SCALE



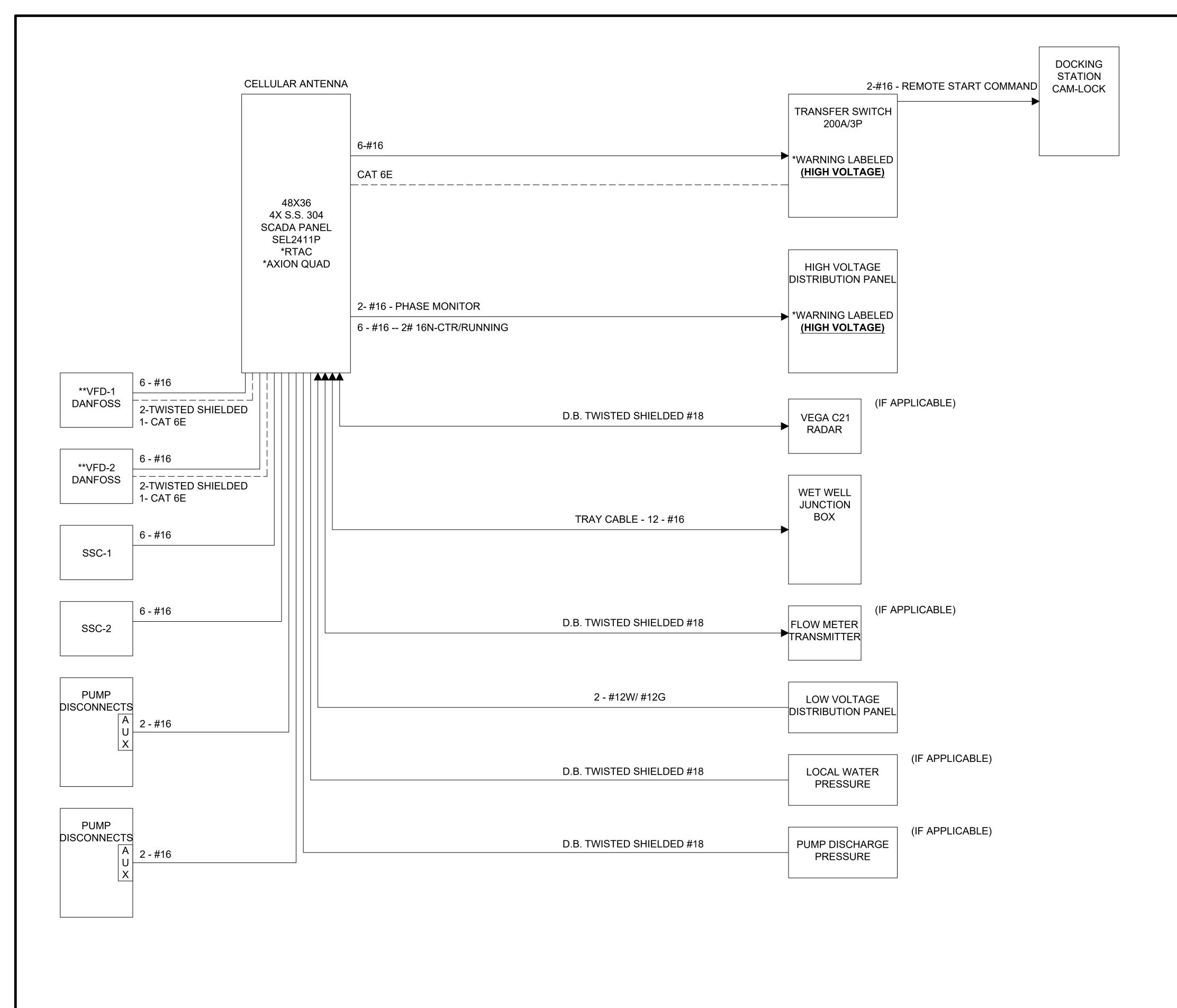






"ALL ELECTRICAL AND SCADA IMPROVEMENTS

CALL BEFORE YOU DIG! (UPC) at 1-800-282-7411, to request underground utility locate service.



## INSTRUMENTATION NOTES

- \* ALL CONDUITS FOR INSTRUMENTATION SHALL BE MIN. 3/4".
- \* 60% CONDUIT FILL.
- \* CONTRACTOR TO FOLLOW LATEST NEC RULING AT TIME OF CONSTRUCTION.
- \* PUMP DISCONNECTS SHALL BE RATED 4X OR 3R IN S.S. 304 MIN. USE WITH VFD'S SHALL INCLUDE AUX CONTACTS.
- \* PUMP SAFE, THERMAL & SEAL FAIL RELAYS NEED TO BE FIELD COORDINATED WITH INTEGRATORS AND EITHER INSTALLED IN THE SCADA PANEL OR WET WELL JUNCTION BOX
- \* PHASE MONITOR TO BE MACROMATIC PMPU AND WIRED TO THE SCADA PANEL FROM THE HIGH VOLT PANEL IN DEDICATED CONDUIT.
- \* RUNNING STATUS CURRENT TRANSFORMER INSTALLED ON LOAD SIDE OF (SSC) SOLID STATE CONTACTORS. AND SOFT STARTS.

## SITE REQUIREMENT'S BASED ON DESIGN

- \* VEGA C21 RADAR TO BE FIELD INSTALLED BY CONTRACTOR AND PROGRAMMED AND SCALED BY INTEGRATORS.
- \* ROSEMOUNT FLOW METERS TO BE CONNECTED TO SCADA AND SCALING FACTOR TO BE COORDINATED WITH INTEGRATORS.
- \* LOCAL PRESSURE TRANSDUCER INSTALLED AND CONNECTED TO SCADA AT SITES REQUIRED BY JWSC.
- \* PUMP DISCHARGE PRESSURE TRANSDUCERS TO BE INSTALLED AND CONNECTED TO SCADA AT SITES REQUIRED BY JWSC.
- \* ATS TO BE ABB TRUEONE WITH LEVEL 4 CONTROLLER, CAT 6E AND DRY CONTACTS TO BE INSTALLED AND COORDINATED WITH INTEGRATORS.
- \* VFD'S TO BE DANFOSS FC-202 NEMA 4X, CAT 6E AND DRY CONTACTS TO BE INSTALLED AND COORDINATED WITH INTEGRATORS.

## ELECTRONIC MACHINE CONTROL (EMC)

- \* TO PROVIDE SCHEDULED TERMINATION AND START—UP SERVICES.
- \* LOCATION REQUIRING MMR'S OR RTAC'S THE CONFIGURATION SHALL BE COMPLETED BY INTEGRATORS. ALL INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH INTEGRATORS.

# WET WELL T.B.

TERMINAL # AND LABEL

336P - 24V+

2. 336P - 24V+

3. 604A - LAG FLOAT

4. 606A - LEAD FLOAT

5. 608A - STOP FLOAT

6. 612A - HIGH FLOAT

7. 802A - PUMP 1 THERMAL

8. 804A - PUMP 2 THERMAL

827A - PUMP 1 SEAL FAIL
 829A - PUMP 2 SEAL FAIL

10. 829A

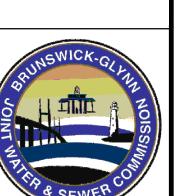
11. GND 12. SPARE

13. 952P - WETWELL LEVEL TRANSMITTER (+)

14. 952M - WETWELL LEVEL TRANSMITTER (-)

15. GND - SHIELD





BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION PLANNING & CONSTRUCTION DIVISION **PUMPSTATION** 

CHATHAM
ENGINEERING

109 Park of Commerce Dr
Suite 6
Savannah, GA 31405
Tel.: 912-238-2400
Fax: 912-238-2412
chathamengineering.com

"ALL ELECTRICAL AND SCADA IMPROVEMENTS SHOWN ARE FOR CONCEPT REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN TO REVIEW AND ENSURE ALL CONSTRUCTION IS IN COMPLIANCE WITH ALL APPLICABLE ELECTRICAL, GROUNDING, AND SAFETY CODES."

At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1-800-282-7411, to request underground utility locate service.

SHEET NO.:

17