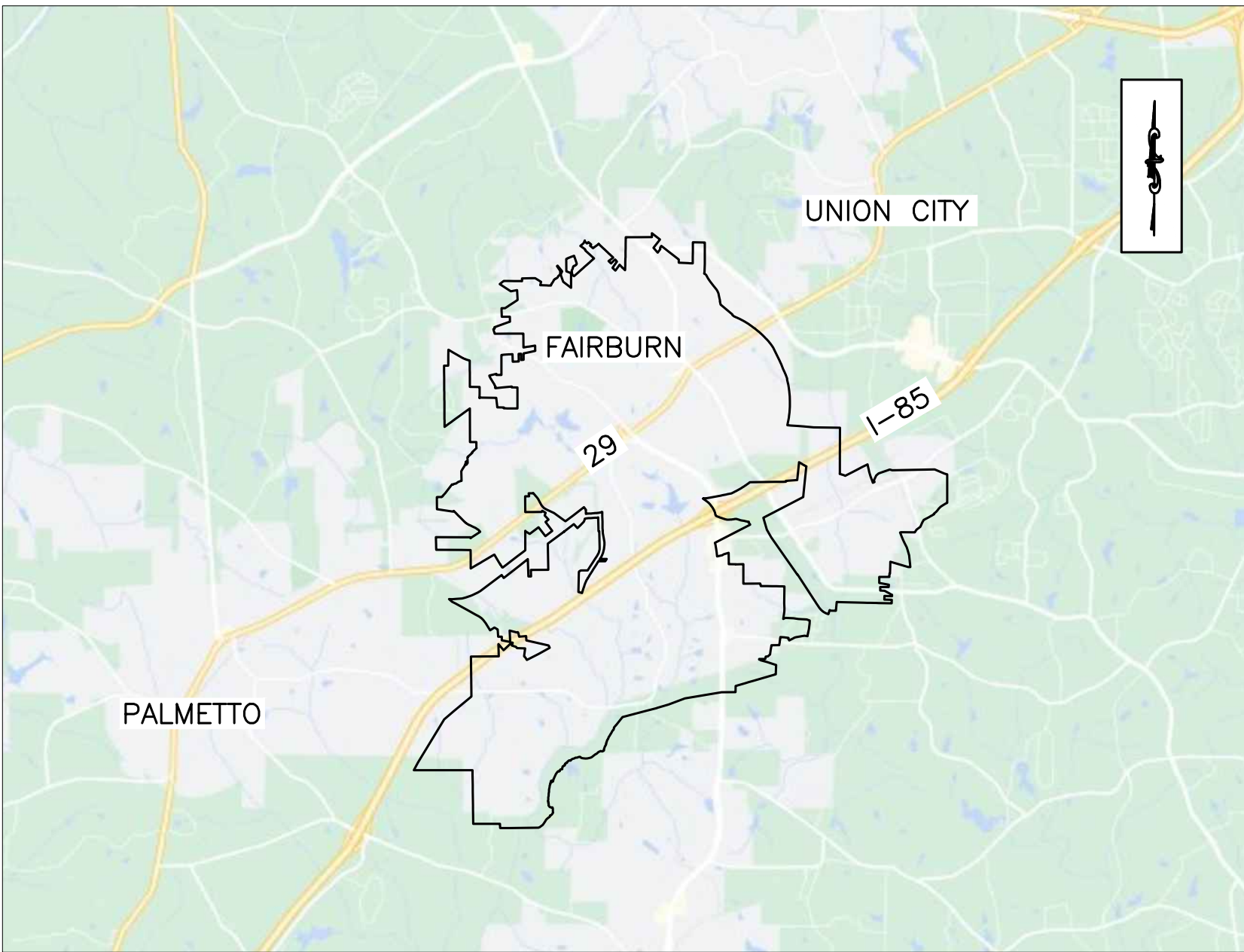


UTILITY PLANS
FOR
PUMP STATION IMPROVEMENTS
FAIRBURN PROJECT NO. 22-004

LOCATED IN DISTRICTS 7 AND 9F, FULTON COUNTY
CITY OF FAIRBURN, GA

LOCATION MAP



SCALE: 1" = 8000'

PREPARED FOR

CITY OF FAIRBURN

56 MALONE STREET, FAIRBURN, GEORGIA 30213

MAY 25, 2022



SHEET INDEX	
SHEET #	TITLE
G-100	COVER
G-200	GENERAL NOTES
C-100	LOCATION MAP
C-101	JOHN RIVERS PS OVERVIEW
C-102	JOHN RIVERS PS OVERVIEW
C-103	EVERGREEN PS OVERVIEW
C-104	EVERGREEN PS OVERVIEW
C-105	FIRE SIDE PS OVERVIEW
C-106	FIRE SIDE PS OVERVIEW
C-107	SHAW PS OVERVIEW
C-108	SHAW PS OVERVIEW
C-700	CONSTRUCTION DETAILS 1

FIRE HYDRANT REPLACEMENT			
DATE: 5/25/22		PROJECT #: 1009.2104	
Rev.	Description	Date	Appr.



INTEGRATED
Science & Engineering

1039 SULLIVAN ROAD, SUITE 200, NEWNAN, GEORGIA 30265
(770) 788-5552, 2106 (770) 788-5552, 2107
ATLANTA, SAVANNAH
COA #: PEF000625 Exp. 6/30/2022



DRAWING NO.
G-100

GENERAL NOTES:

1.

OWNER: CITY OF FAIRBURN
56 MALONE STREET
FAIRBURN, GEORGIA 30213
CONTACT: JOHN MARTIN (770) 964-2244
2.

ENGINEER: INTEGRATED SCIENCE & ENGINEERING, INC.
1039 SULLIVAN ROAD, SUITE 200
NEWNAN, GA 30265 CONTACT: CARY R. DIAL, P.E. (770) 900-5510
3.

TOTAL SITE AREA = 0.16 AC.
4.

SITE AREA SHALL BE LIMITED TO THE AREA WITHIN EACH FAIRBURN PUMP STATION FENCE.
5.

ALL WORK SHALL CONFORM TO THE CITY OF FAIRBURN'S, STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROPER OFFICIALS FOR ANY REQUIRED INSPECTIONS.
6.

THIS PROPERTY IS NOT LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR FULTON COUNTY COMMUNITY PANEL #13121C0454F DATED SEPT. 18, 2013 AND PANEL #13121C0461F DATED SEPT. 18, 2013.
7.

STATE WATERS ARE NOT PRESENT ON OR WITHIN 200 FT OF THIS PROJECT SITE.
8.

NO WETLANDS ARE AFFECTED BY THE WORK.
9.

CIVIL PLANS DEPICT APPROXIMATE LOCATIONS OF STRUCTURES.
10.

ANY DAMAGES THAT MAY OCCUR TO REAL PROPERTY OR EXISTING IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE REAL PROPERTY OR EXISTING IMPROVEMENTS WERE IN PRIOR TO THE DAMAGES. THIS RESTORATION SHALL BE SUBJECT TO THE OWNER'S APPROVAL; MOREOVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. RESTORATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REGRASSING, REVEGETATION, REPLACING FENCES, REPLACING TREES, ETC.
11.

LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND GDOT STANDARD SPECIFICATIONS AND DRAWINGS. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.
12.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES AND SHALL AT ALL TIMES TAKE ALL REASONABLE SAFETY PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES ON THE PROJECT AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE, AND MUNICIPAL SAFETY LAWS AND BUILDING CONSTRUCTION CODES.
13.

CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION. PONDING OF WATER IN STREETS, DRIVES, TRUCK COURTS, TRENCHES, ETC. WILL NOT BE ALLOWED.
14.

CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL STORM WATER POLLUTION PREVENTION LAWS AND ORDINANCES.
15.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING OPERATIONS THAT MEET OR EXCEED ANY LOCAL, STATE OR FEDERAL PERMIT REQUIREMENTS. ANY PERMIT VIOLATION OR VIOLATIONS OF STATE LAWS AND REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
16.

CONTRACTOR IS TO COMPLY WITH ALL LOCAL BUILDING CODES AND REGULATIONS WHICH ARE PRESENTLY IN EFFECT.
17.

SIGNS SHALL BE PERMITTED THRU PLANNING AND ZONING DEPARTMENT.

DEMOLITION NOTES

1.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ON SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
2.

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AS ACCEPTABLE TO THE OWNER IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.
3.

CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION. SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
4.

SAWCUT EDGES OF ASPHALT/CONCRETE DEMOLITION, PATCH AND REPAIR AS NECESSARY.

UTILITY NOTES

1.

SEWER SERVICES PROVIDED BY CITY OF FAIRBURN.
2.

WATER SERVICES PROVIDED BY CITY OF FAIRBURN.
3.

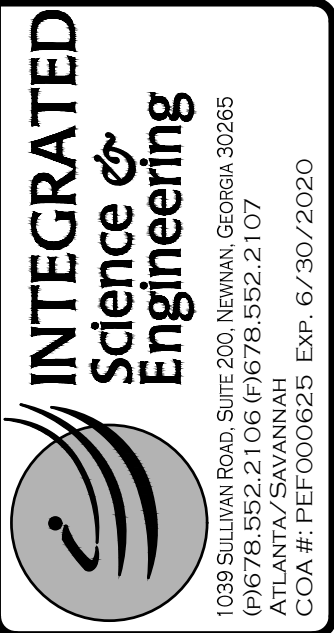
POWER SERVICES PROVIDED BY GEORGIA POWER.
4.

GAS SERVICES PROVIDED BY ATLANTA GAS LIGHT.
5.

COMMUNICATION SERVICES PROVIDED BY AT&T.
6.

CITY OF FAIRBURN STANDARD SPECIFICATIONS AND DETAILS SHALL GOVERN ALL CONSTRUCTION.
7.

EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED FOR LOCATION AND NUMBER BY THE CONTRACTOR.



Date		Drawn by:		Check by:		8		Date	
5/25/22		JMN		JMN		7		---	
Project #:		Design by:		Review by:		6		---	
1009.2104		JMN		CRD		5		---	
						4		---	
						3		---	
						2		---	
						1		---	
								Rev.	
								Description	

CONSTRUCTION PLANS
FOR
PUMP STATION IMPROVEMENTS

LOCATED IN DISTRICTS 7 AND 9F, FULTON COUNTY, GEORGIA

GENERAL NOTES





**INTEGRATED
Science &
Engineering**

1039 Sullivan Road, Suite 200, Newnan, Georgia 30065
(906) 788-5522, 2106 (F) 678-5522, 107
COA #: PEF000628 Exp: 6/30/2020



Date	Drawn by	Check by	Rev.	Description
5/25/22	JNN	JNN	1	
Project #:	Design by:	Review by:		
1009.2104	JNN	CFD		
500'	250'	0'	500'	
SCALE: 1" = 500'				

CONSTRUCTION PLANS
FOR

PUMP STATION IMPROVEMENTS

LOCATED IN DISTRICTS 7 AND 9F, FULTON COUNTY, GEORGIA

LOCATION MAP

DRAWING NO.

C-100



1. CONTRACTOR TO INSTALL A NEW GRUNDFOS CU 362 CONTROLLER. CONTROLLER TO BE INSTALLED WITHIN THE EXISTING PUMP CONTROL PANEL. COST TO INCLUDE ANY REQUIRED PANEL MODIFICATIONS. THIS PUMP STATION IS AN EXISTING TRI-PLEX STATION.
2. CONTROLLER TO INCLUDE A NEW PRESSURE TRANSDUCER ALONG WITH 2 BACKUP FLOATS (HIGH-HIGH AND LOW-LOW). NEW LEVEL PRESSURE TRANSDUCER TO BE INSTALLED VIA MANUFACTURERS RECOMMENDATION, I.E. INSIDE STILLING WELL OR APPROVED EQUAL. SEE DETAIL ON SHEET C-700 FOR INSTALLATION.
3. THERE IS NO BY-PASS PUMP CONNECTION. THERE SHALL BE A DEDICATED SEPTAGE HAUL TRUCK AVAILABLE AT ALL TIMES DURING THE INSTALLATION PROCESS. FAIRBURN WILL ALLOW ACCESS TO A NEARBY MANHOLE FOR DISCHARGE AT NO COST TO THE CONTRACTOR.



INTEGRATED Science & Engineering
1039 SULLIVAN ROAD, SUITE 200, NEWNAN, GEORGIA 30065
(9678) 552.2106 (9678) 552.2107
COA #: PEO000628 Exp: 6/30/2020

GEORGIA
REGISTERED PROFESSIONAL ENGINEER
CARY R. DIAL

Date	Drawn by	Check by	Project #	Design by	Review by	Rev.	Description
5/25/22	JNN	JNN	1009.2104	JNN	CRD	1	
						2	
						3	
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						8	

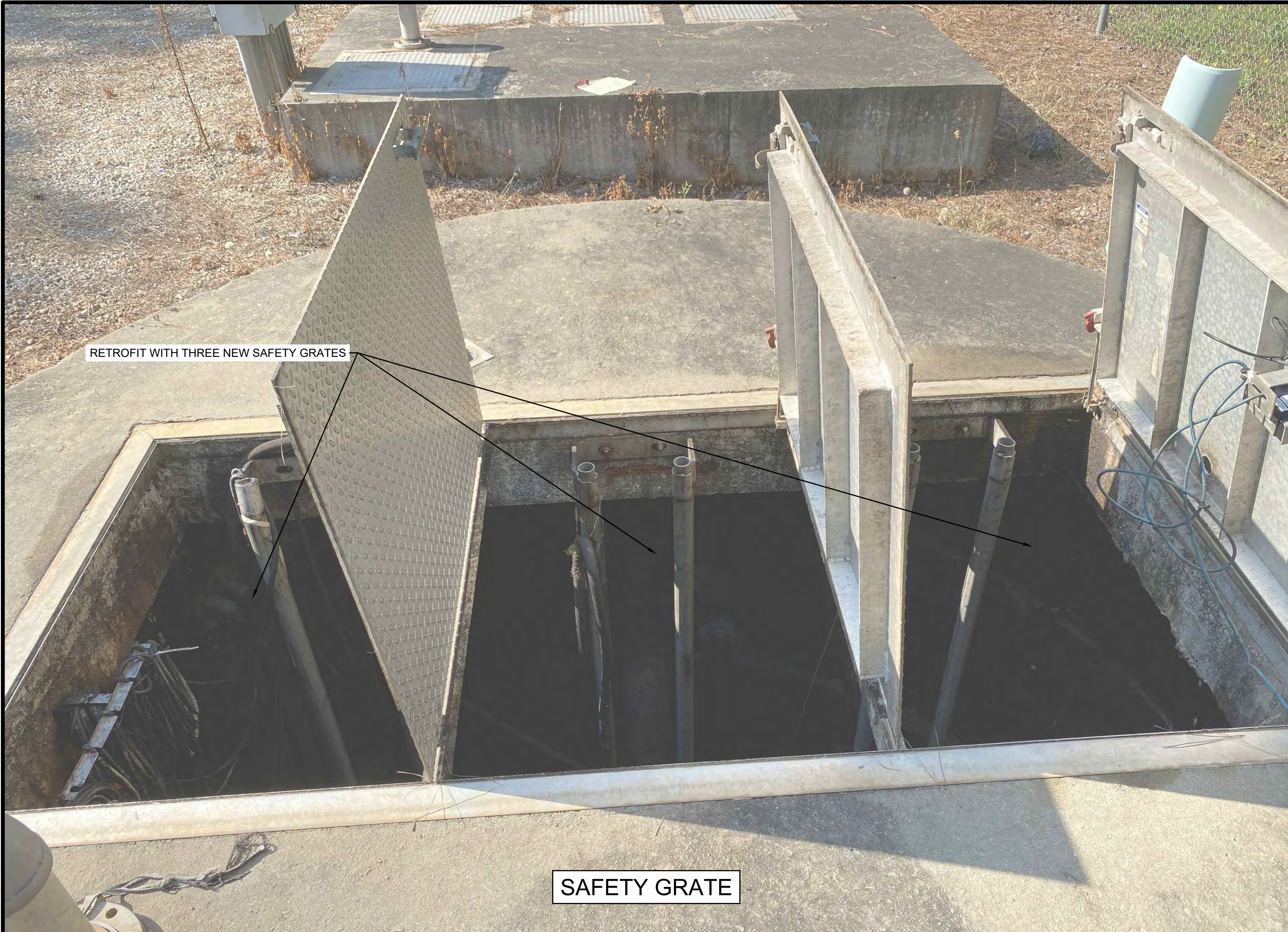
SCALE: 1" = 10'

CONSTRUCTION PLANS FOR
PUMP STATION IMPROVEMENTS

JOHN RIVERS
PUMP STATION
OVERVIEW

DRAWING NO.
C-101

LOCATED IN DISTRICTS 7 AND 9F, FULTON COUNTY, GEORGIA



RETROFIT WITH THREE NEW SAFETY GRATES

SAFETY GRATE



REPAIR TOP OF GUIDE RAILS AND ADD A FASTENER, IF REPAIR NOT POSSIBLE, THEN REPLACE WITH NEW GUIDE RAILS

BENT PUMP GUIDE RAIL



PANEL RACK



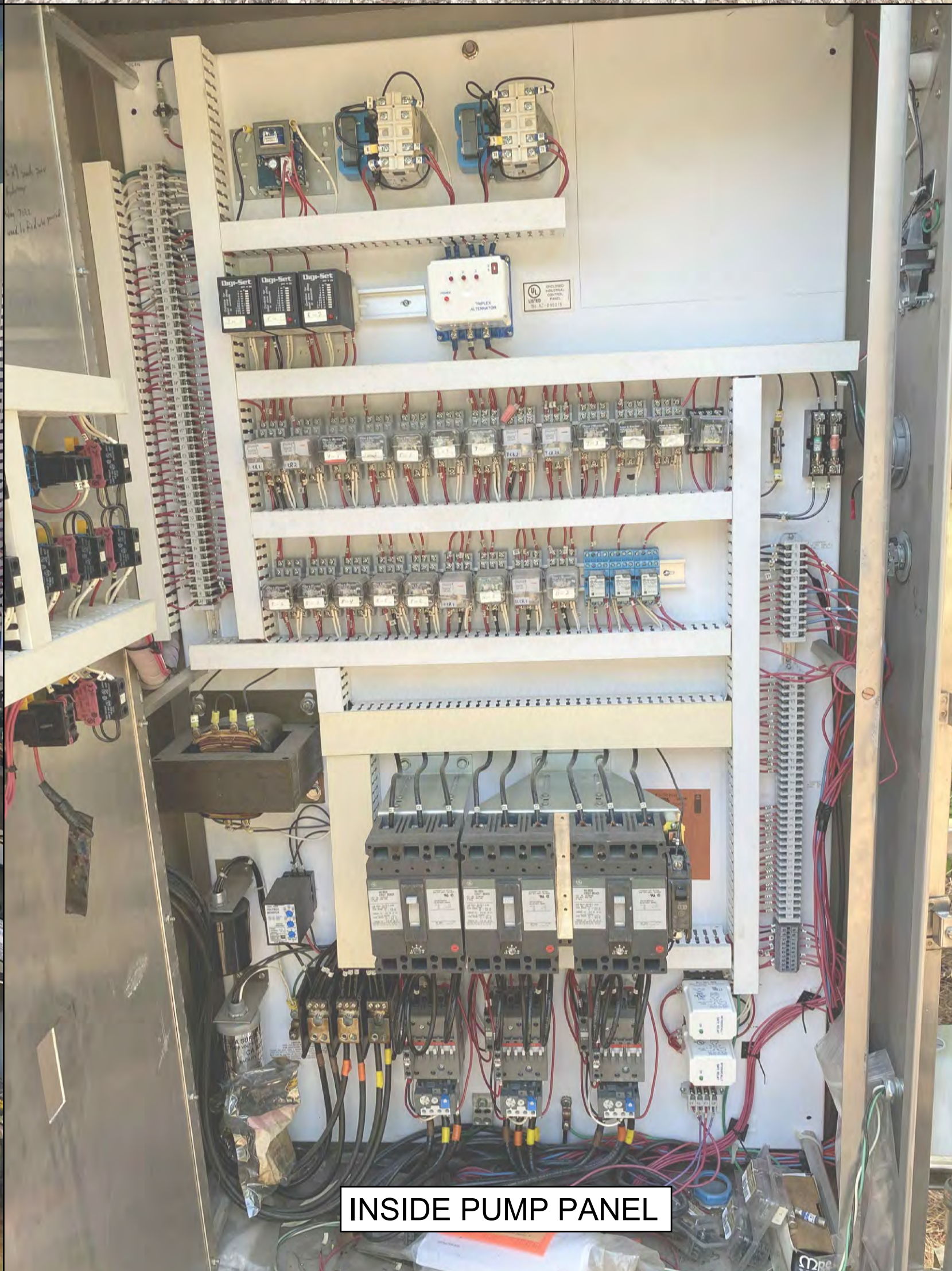
INSIDE EXTERIOR DOOR PANEL



OUTSIDE PUMP PANEL



INSIDE INTERIOR DOOR PANEL



INSIDE PUMP PANEL

Date	Drawn by	Check by	Rev.	Description
5/25/22	JMN	JMN	1	
10/05/21	JMN	CRD	2	
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			8	

CONSTRUCTION PLANS
FOR
PUMP STATION IMPROVEMENTS

JOHN RIVERS
PUMP STATION
OVERVIEW



EVERGREEN PS

1. CONTRACTOR TO INSTALL TWO NEW GRUNDFOS PUMPS, MODEL NO. SE1.30.A40.200.2.52S.C.EX.61R.A. THIS IS A 20 HP PUMP. INSTALLATION TO INCLUDE A NEW PUMP BASES IF REQUIRED AND/OR AN APPROPRIATE ADAPTOR PLATES.
2. CONTRACTOR TO RETURN THE ONE EXISTING PUMP BACK TO THE CITY OF FAIRBURN.
3. CONTRACTOR TO ALSO INSTALL A NEW GRUNDFOS CU 362 CONTROLLER. CONTROLLER TO BE INSTALLED WITHIN THE EXISTING PUMP CONTROL PANEL. COST TO INCLUDE ANY REQUIRED PANEL MODIFICATIONS.
4. CONTROLLER TO INCLUDE A NEW PRESSURE TRANSDUCER ALONG WITH 2 BACKUP FLOATS (HIGH-HIGH AND LOW-LOW). NEW LEVEL PRESSURE TRANSDUCER TO BE INSTALLED VIA MANUFACTURERS RECOMMENDATION, I.E. INSIDE STILLING WELL OR APPROVED EQUAL. SEE DETAIL ON SHEET C-700 FOR INSTALLATION.
5. THERE IS NO BY-PASS PUMP CONNECTION. THERE SHALL BE A DEDICATED SEPTAGE HAUL TRUCK AVAILABLE AT ALL TIMES DURING THE INSTALLATION PROCESS. FAIRBURN WILL ALLOW ACCESS TO A NEARBY MANHOLE FOR DISCHARGE AT NO COST TO THE CONTRACTOR.



EXISTING PUMP GUIDE RAILS



SAFETY GRATE



PANEL RACK

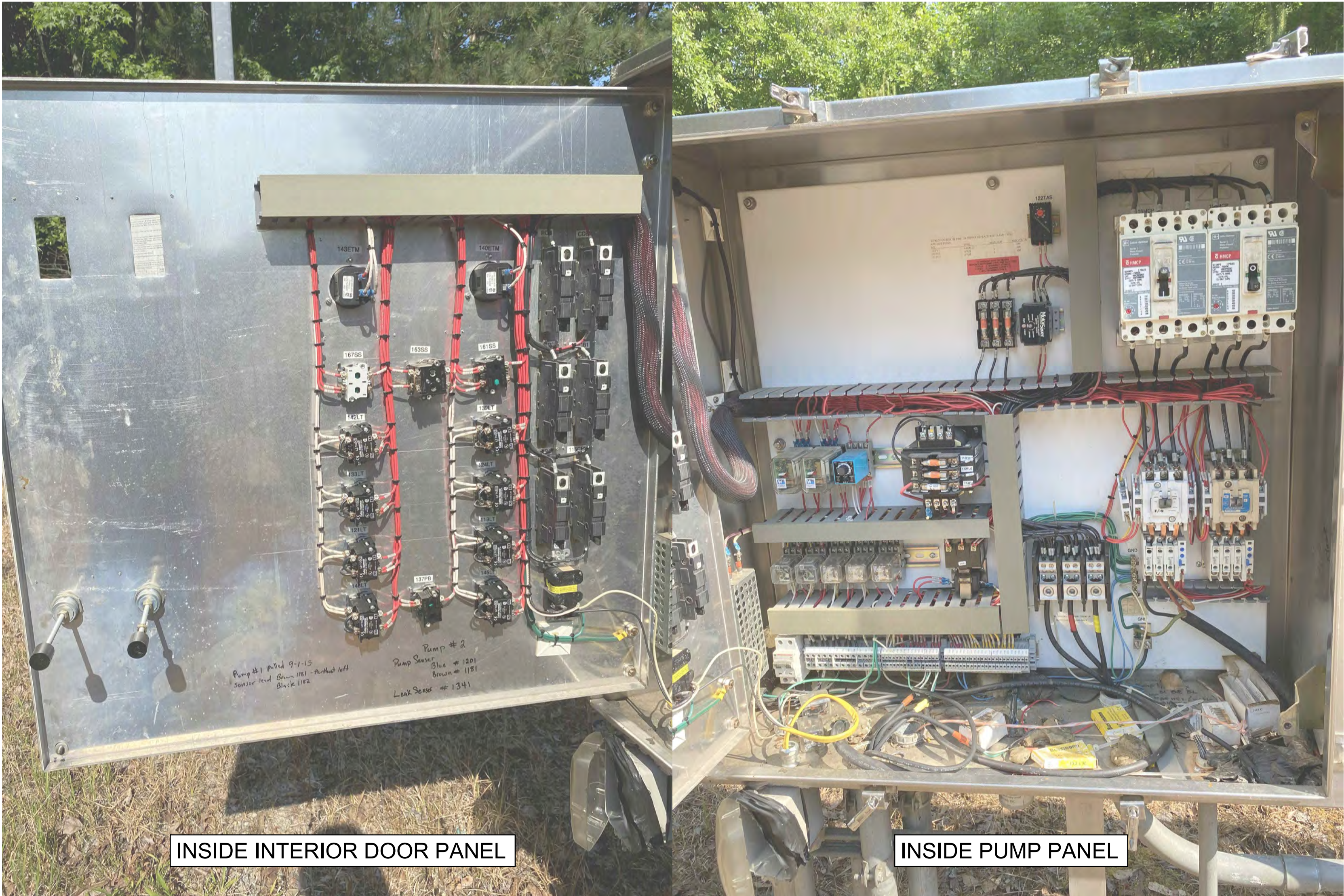


INSIDE EXTERIOR DOOR PANEL



OUTSIDE PUMP PANEL

Date	Down by	Check by	Rev.	Description
5/25/22	JMN	JMN	1	
Project #	Design by	Review by		
1009.2104	JMN	CFD		
10'	5'	0'	10'	
SCALE:	1" = 10'			



INSIDE INTERIOR DOOR PANEL

INSIDE PUMP PANEL

Date:	Drawn by:	Check by:	Rev.	Description	Date	App.
5/25/22	JMN	JMN	1			
Project #:	Design By:	Review By:	2			
1009.2104	JMN	CRD	3			
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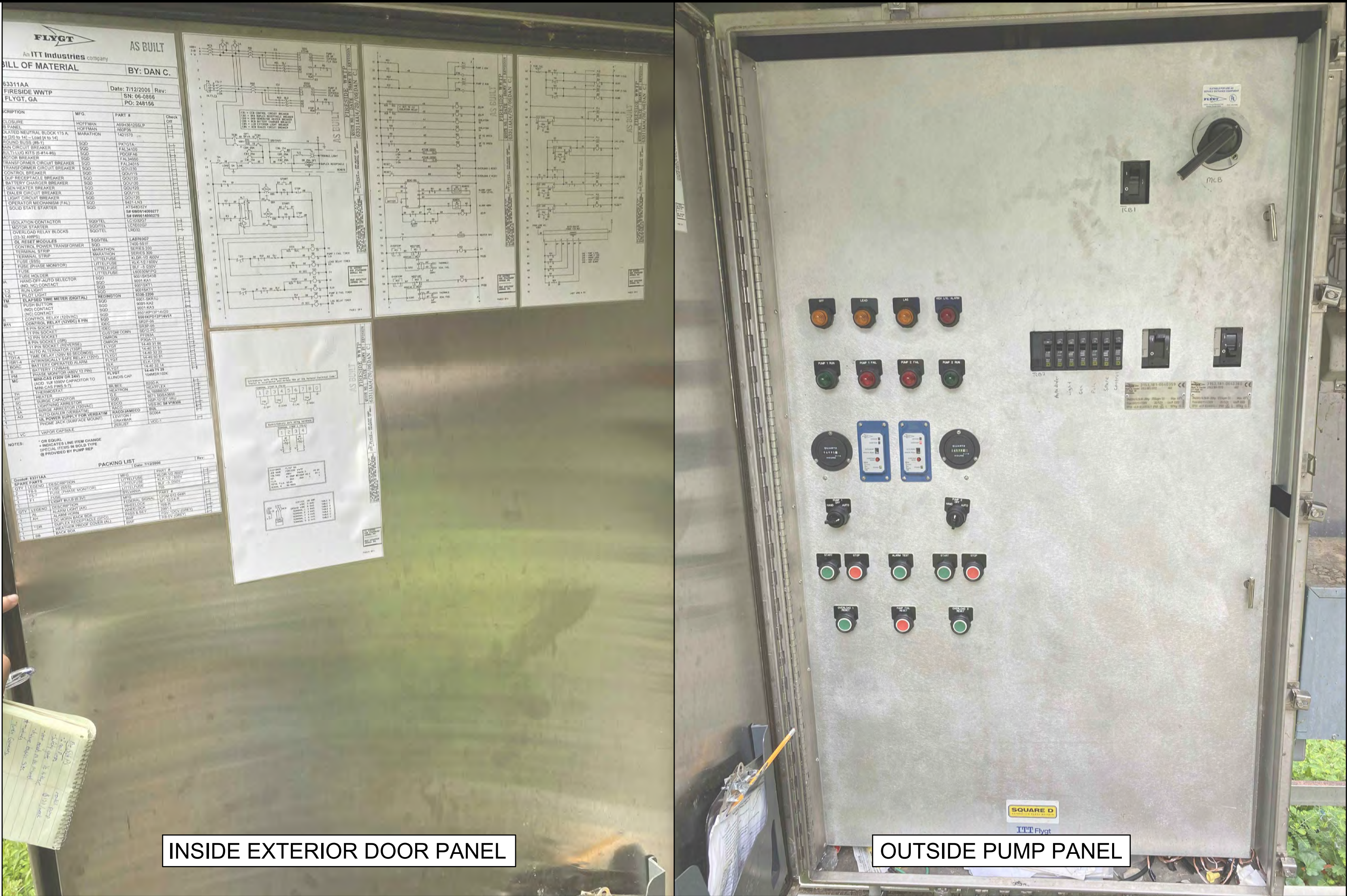
1. CONTRACTOR TO INSTALL TWO NEW GRUNDFOS PUMPS, MODEL NO. SEV.30.A30.250.2.52H.C.EX.61R.A. THIS IS A 25 HP VORTEX PUMP. INSTALLATION TO INCLUDE A NEW PUMP BASES IF REQUIRED AND/OR AN APPROPRIATE ADAPTOR PLATES
2. CONTRACTOR TO ALSO INSTALL A NEW GRUNDFOS CU 362 CONTROLLER. CONTROLLER TO BE INSTALLED WITHIN THE EXISTING PUMP CONTROL PANEL. COST TO INCLUDE ANY REQUIRED PANEL MODIFICATIONS.
3. CONTROLLER TO INCLUDE A NEW PRESSURE TRANSDUCER ALONG WITH 2 BACKUP FLOATS (HIGH-HIGH AND LOW-LOW). NEW LEVEL PRESSURE TRANSDUCER TO BE INSTALLED VIA MANUFACTURERS RECOMMENDATION, I.E. INSIDE STILLING WELL OR APPROVED EQUAL. SEE DETAIL ON SHEET C-700 FOR INSTALLATION.
4. THERE IS NO BY-PASS PUMP CONNECTION. THERE SHALL BE A DEDICATED SEPTAGE HAUL TRUCK AVAILABLE AT ALL TIMES DURING THE INSTALLATION PROCESS. FAIRBURN WILL ALLOW ACCESS TO A NEARBY MANHOLE FOR DISCHARGE AT NO COST TO THE CONTRACTOR.



Rev.	Description	Date
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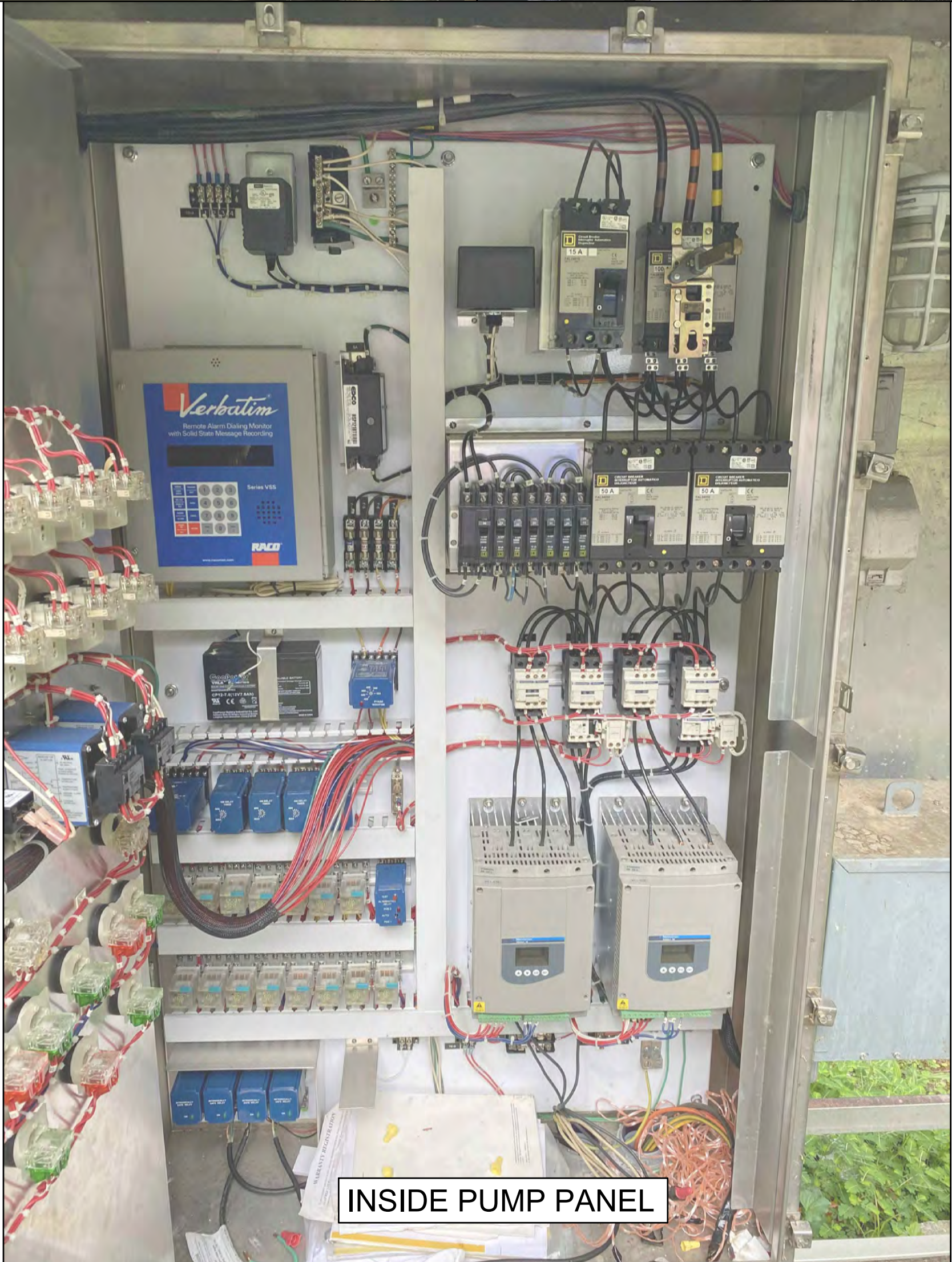
Drawn by:	Check by:
JMN	JMN
Design by:	Review by:
1009.2104 JMN	CFD

Date: 5/25/22
Project #: 1009.2104



INSIDE EXTERIOR DOOR PANEL

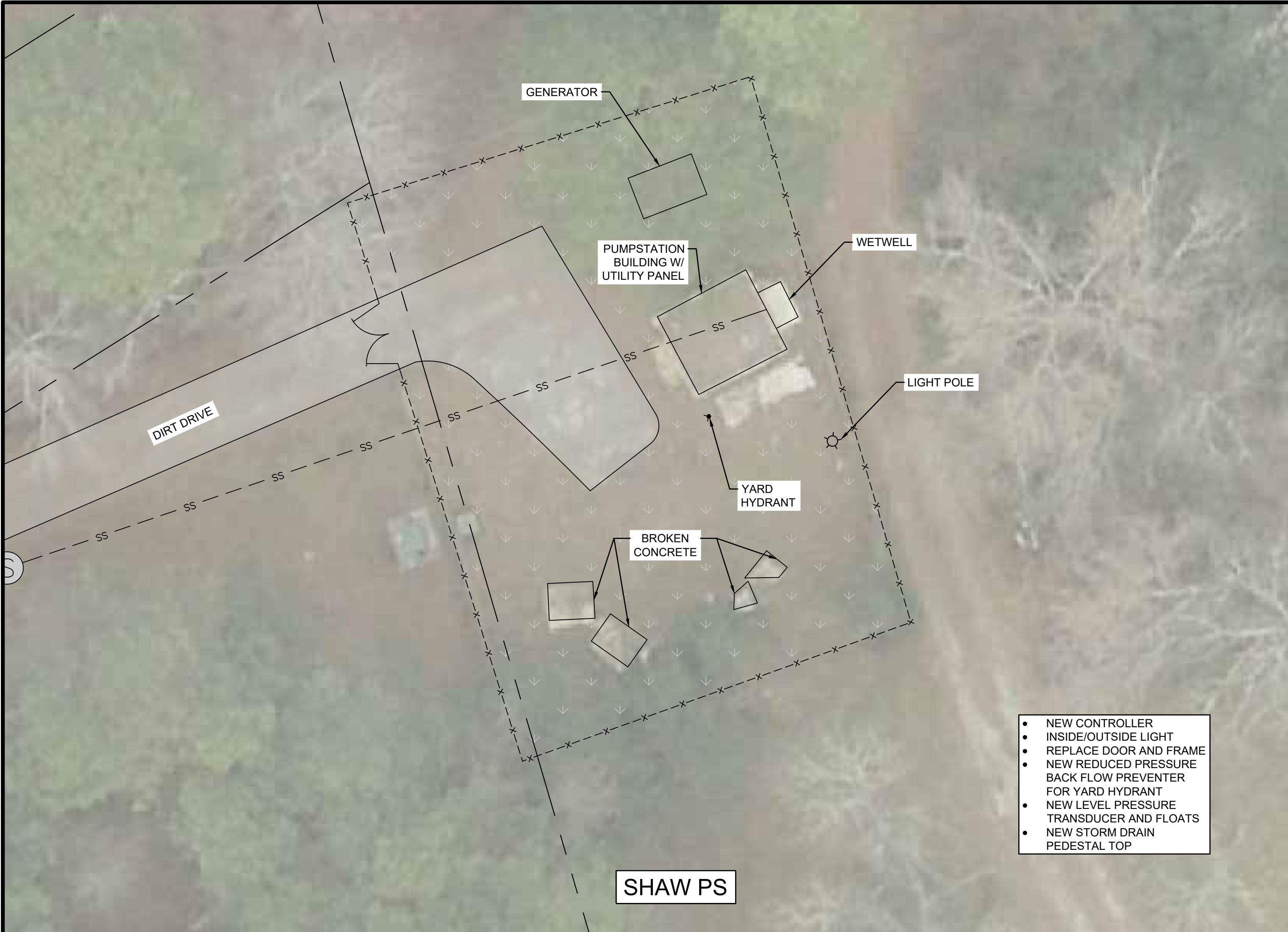
OUTSIDE PUMP PANEL



INSIDE PUMP PANEL

Date	Drawn by	Check by	Rev.	Description
5/25/22	JMN	JMN	1	
Project #	Design by	Review by	2	
1009.2104	JMN	CRD	3	
			4	
			5	
			6	
			7	
			8	





1. CONTRACTOR TO ALSO INSTALL A NEW GRUNDFOS CU 362 CONTROLLER. CONTROLLER TO BE INSTALLED WITHIN THE EXISTING PUMP CONTROL PANEL. COST TO INCLUDE ANY REQUIRED PANEL MODIFICATIONS. THIS PUMP STATION IS AN EXISTING TRI-PLEX STATION.
2. CONTROLLER TO INCLUDE A NEW PRESSURE TRANSDUCER ALONG WITH 2 BACKUP FLOATS (HIGH-HIGH AND LOW-LOW). NEW LEVEL PRESSURE TRANSDUCER TO BE INSTALLED VIA MANUFACTURERS RECOMMENDATION, I.E. INSIDE STILLING WELL OR APPROVED EQUAL. SEE DETAIL ON SHEET C-700 FOR INSTALLATION.
3. THERE IS A BY-PASS PUMP CONNECTION. THERE SHALL BE A DEDICATED BY-PASS PUMP AVAILABLE AT ALL TIMES DURING THE INSTALLATION PROCESS.



INTEGRATED Science & Engineering

1039 SULLIVAN ROAD, SUITE 200, NEWNAN, GEORGIA 30065
(404) 788-5522, 2106 (P) 678-5522, 2107
COA #: PEO000628 Exp: 6/30/2020

GEORGIA

REGISTERED PROFESSIONAL ENGINEER

CARY R. DIAL

Rev.	Description	Date
1		
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Date	Drawn by	Check by	Project #	Design by	Review by
5/25/22	JNN	JNN	1009.2104	JNN	CFD

CONSTRUCTION PLANS FOR

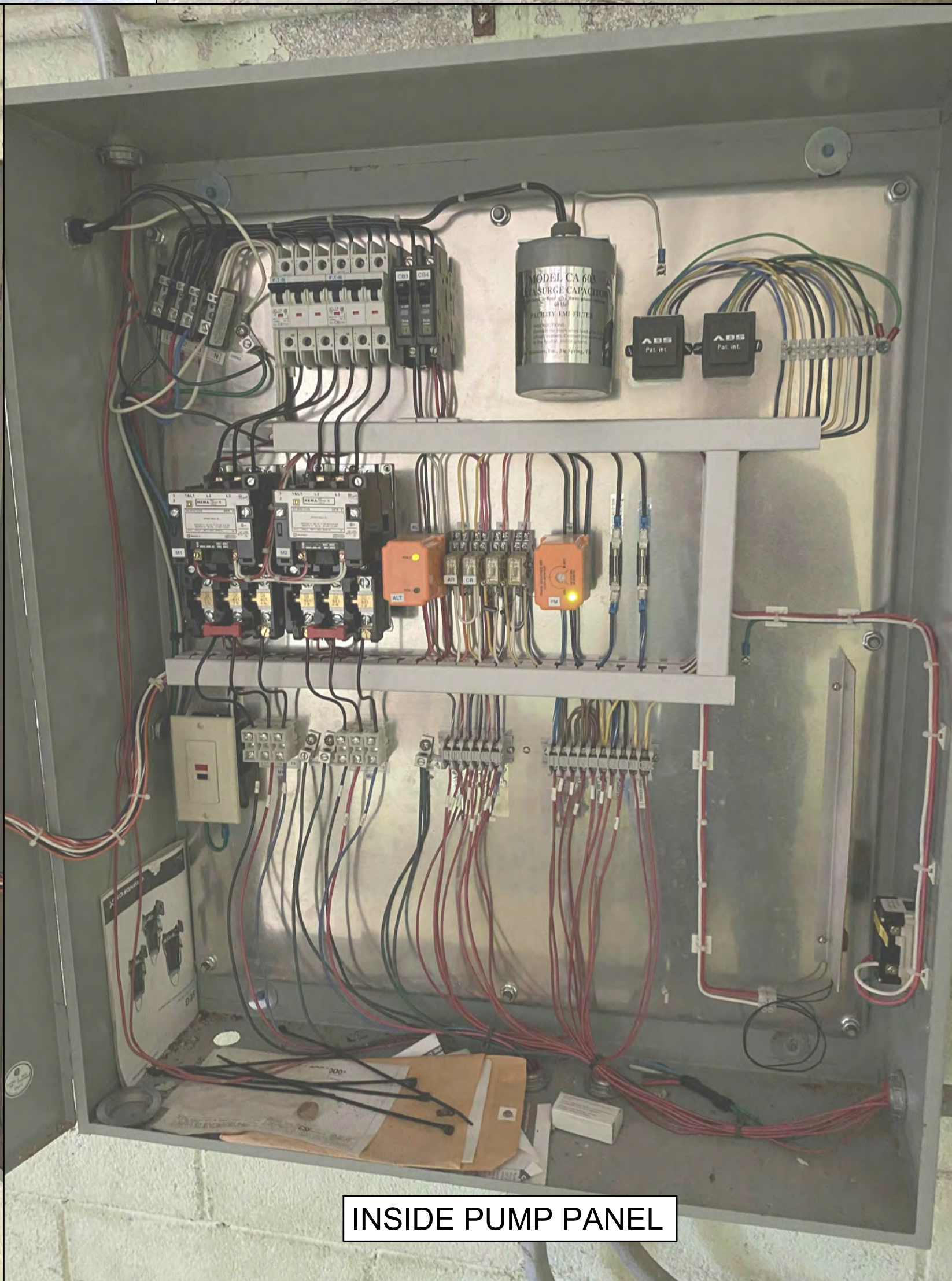
PUMP STATION IMPROVEMENTS

LOCATED IN DISTRICTS 7 AND 9F, FULTON COUNTY, GEORGIA

SHAW PUMP STATION OVERVIEW

DRAWING NO.

C-107



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(404) 788-5522 • 2106 (404) 788-5522 • 107
COA #: PEO000628 Exp: 6/30/2020

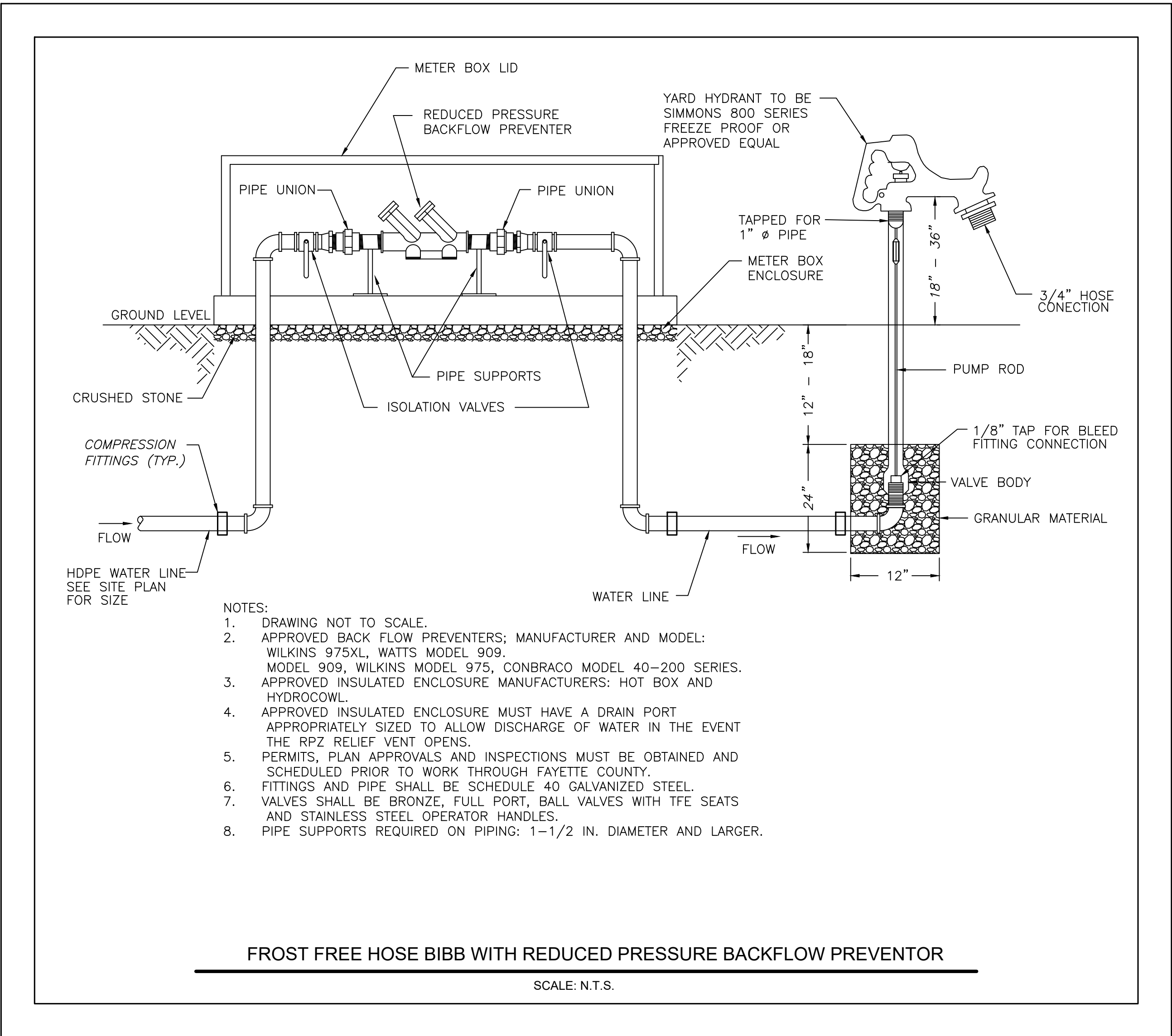
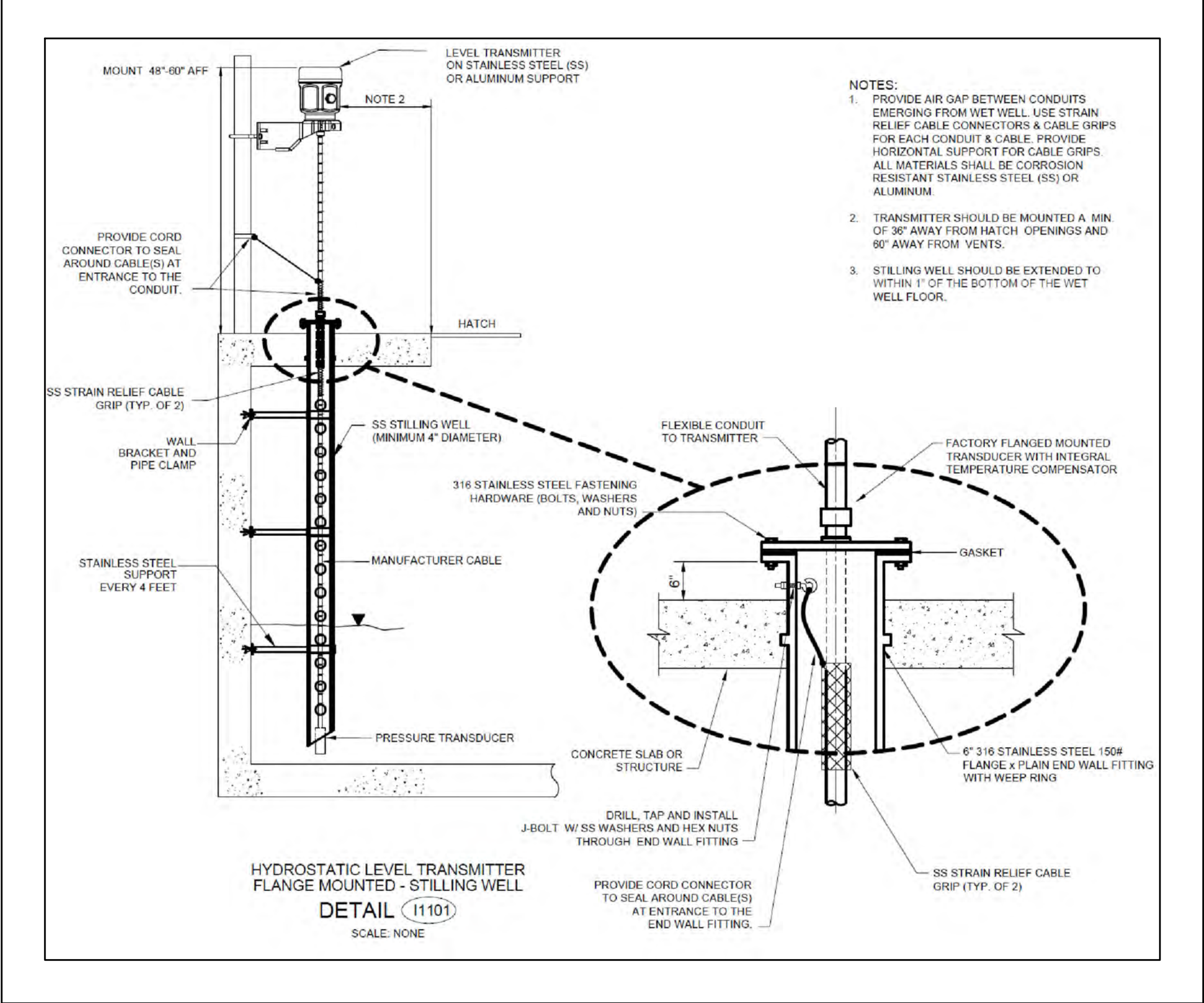
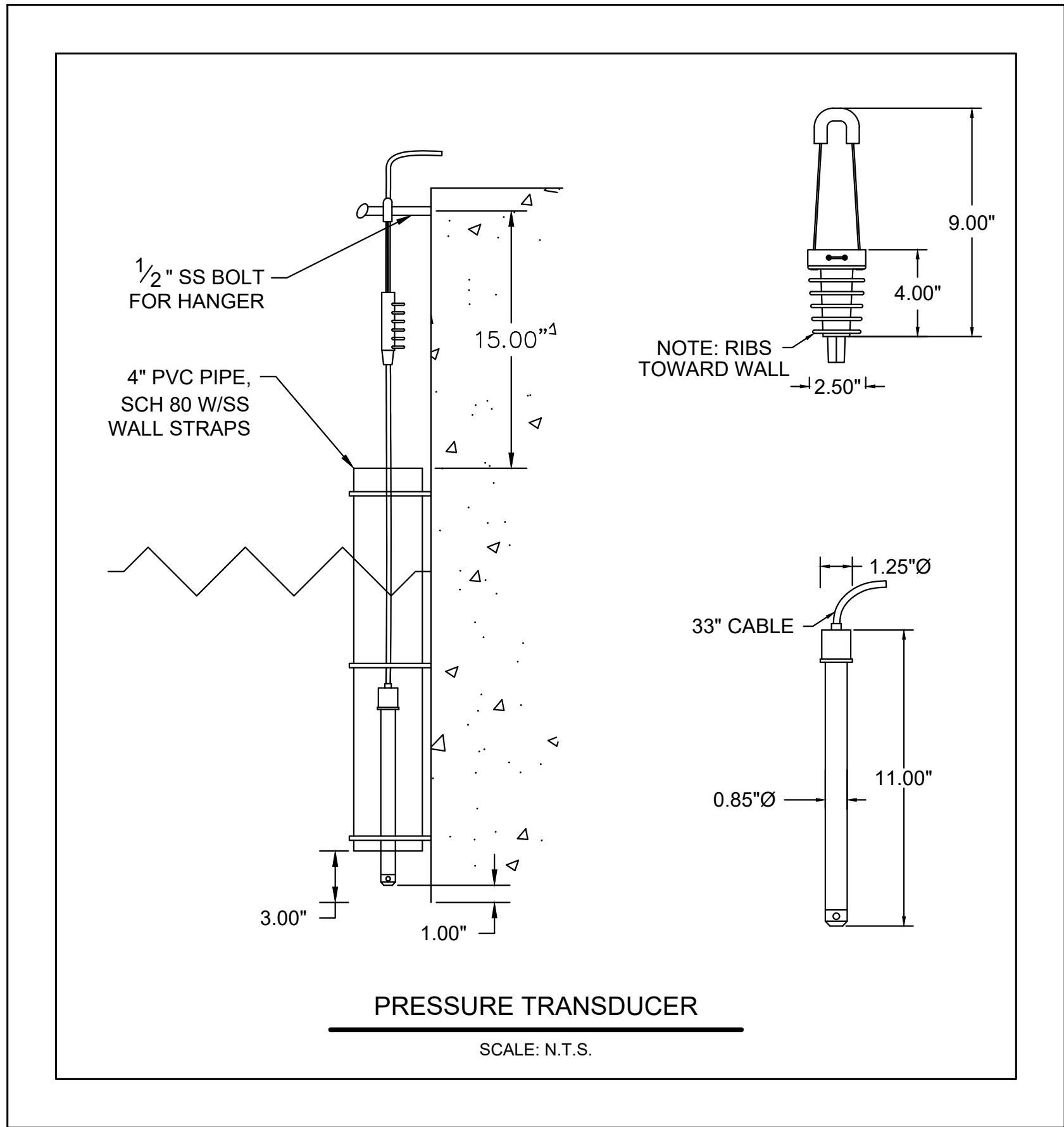
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 2921
CARY R. DIAL

Date	Drawn by	Check by	Rev.	Description
5/25/22	JMN	JMN	1	
10/05/21	JMN	CFD	2	
			3	
			4	
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			7	
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CONSTRUCTION PLANS FOR
PUMP STATION IMPROVEMENTS

SHAW PUMP STATION OVERVIEW

DRAWING NO.
C-108



Date	Drawn by	Check by	Rev.	Description
5/25/22	JMN	JMN	1	SCALE: N.T.S.
10/09/21	JMN	CRD	2	
			3	
			4	
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			6	
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