

DISTRICT PROJECTS/FULLER CREEK PHASE F 1566/ENGINEERING/DWGS/1801 SOPER FORCEMAIN DESIGN.DWG

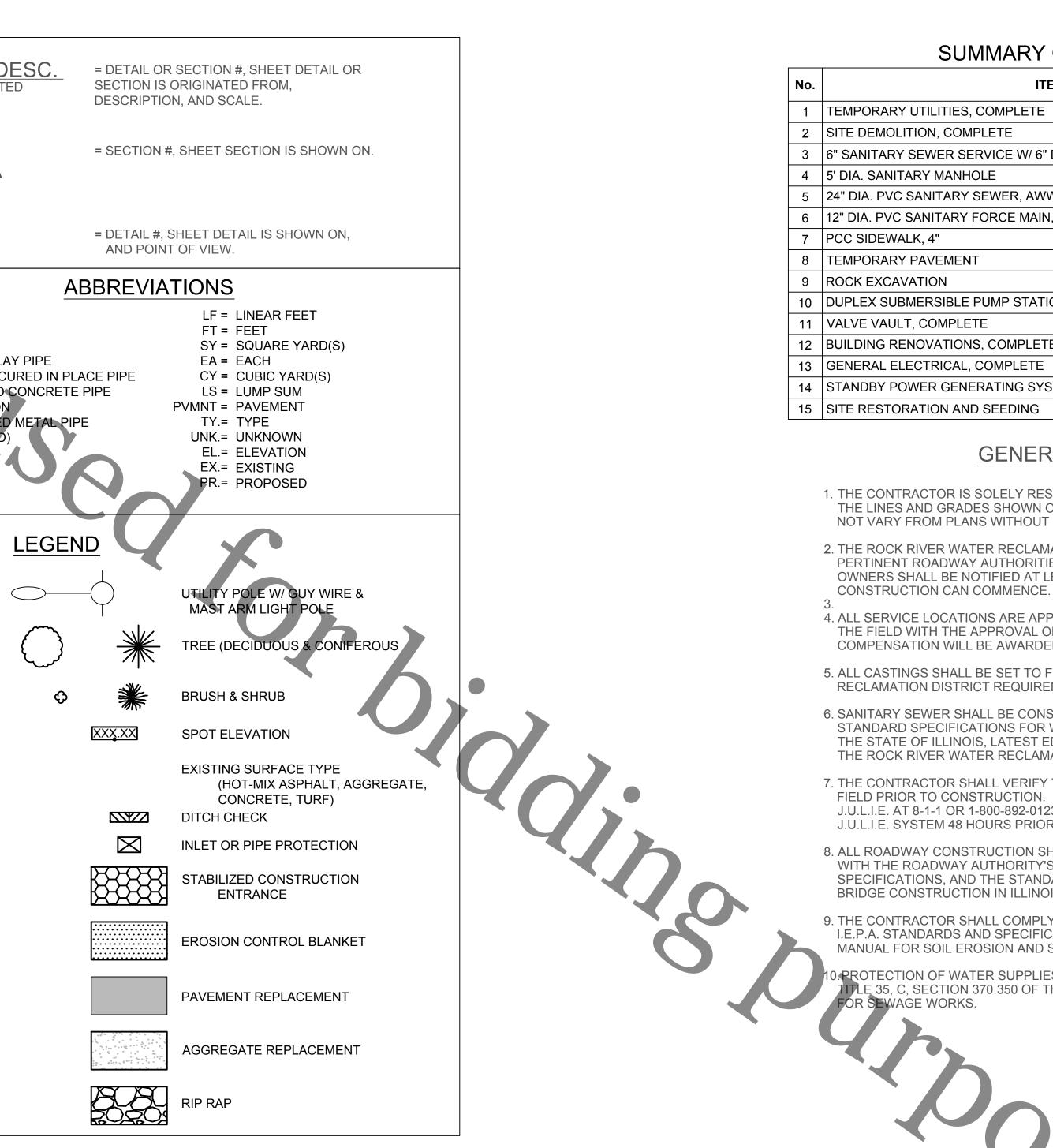
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- **10. ELECTRICAL CONDUIT & EQUIPMENT SCHEDULES**
- 12. R.R.W.R.D. STANDARD DETAILS



EXISTING	PROPOSED			
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			TRUCTION	C.O. = CLEANOUT VCP = VITRIFIED CLA LINCIPP = LINED WITH C
		EDGE OF PA		RCP = REINFORCED DI = DUCTILE IRON
		CURB & GUT		CMP = CORRUGATEL ABD.= ABANDON(ED REM.= REMOVE(D)
OC		CABLE - OVE		REPL.= REPLACE(D)
UC		CABLE - UNI	DERGROUND	
OE		ELECTRIC -	OVERHEAD	
UE		ELECTRIC -	UNDERGROUND	
FO		FIBER OPTIC	C / CAT6 CABLE	
G		GAS LINE		
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— <del>⋈</del> — w		WATER MAII	N & WATER MAIN VALVE	
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-Q-	•	FIRE HYDRA	NT	
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vv alei	OCK RIVER WATER	No. DATE	REVISION	INT.
3501	KISHWAUKEE STREET KFORD, ILLINOIS 61109 (815) 387-7660			



## FULLER CREEK PHASE F, PUMP STATION INSTALLATION **CAPITAL IMPROVEMENT PROJECT #1566**

LEGEND, GENE

### SUMMARY OF QUANTITIES

ITEM	UNIT	QTY.
ES, COMPLETE	LS	1
OMPLETE	LS	1
R SERVICE W/ 6" DIA. CLEANOUT	EA	1
NHOLE	EA	1
RY SEWER, AWWA C905, ASTM D3139	LF	47
RY FORCE MAIN, AWWA C905, ASTM D3139	LF	43
	SF	235
1ENT	SY	418
	CY	88
BLE PUMP STATION, COMPLETE	LS	1
PLETE	LS	1
IONS, COMPLETE	LS	1
AL, COMPLETE	LS	1
ENERATING SYSTEM, COMPLETE	LS	1
AND SEEDING	LS	1

#### **GENERAL NOTES**

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF WORK TO THE LINES AND GRADES SHOWN ON THESE PLANS. CONSTRUCTION SHALL NOT VARY FROM PLANS WITHOUT DISTRICT APPROVAL.

2. THE ROCK RIVER WATER RECLAMATION DISTRICT, MUNICIPALITIES, PERTINENT ROADWAY AUTHORITIES, AND ALL AFFECTED PROPERTY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS MINIMUM BEFORE

4. ALL SERVICE LOCATIONS ARE APPROXIMATE AND MAY BE CHANGED IN THE FIELD WITH THE APPROVAL OF THE INSPECTOR. NO ADDITIONAL COMPENSATION WILL BE AWARDED DUE TO REVISED LOCATION.

5. ALL CASTINGS SHALL BE SET TO FINAL GRADE PER ROCK RIVER WATER RECLAMATION DISTRICT REQUIREMENTS.

6. SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN THE STATE OF ILLINOIS, LATEST EDITION, AND THE REQUIREMENTS OF THE ROCK RIVER WATER RECLAMATION DISTRICT.

7. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT 8-1-1 OR 1-800-892-0123 AND ANY OTHER UTILITIES NOT ON THE J.U.L.I.E. SYSTEM 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

8. ALL ROADWAY CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE ROADWAY AUTHORITY'S REQUIREMENTS, DISTRICT SPECIFICATIONS, AND THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, LATEST EDITION.

9. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE I.E.P.A. STANDARDS AND SPECIFICATIONS, AND THE ILLINOIS URBAN MANUAL FOR SOIL EROSION AND SEDIMENT CONTROL.

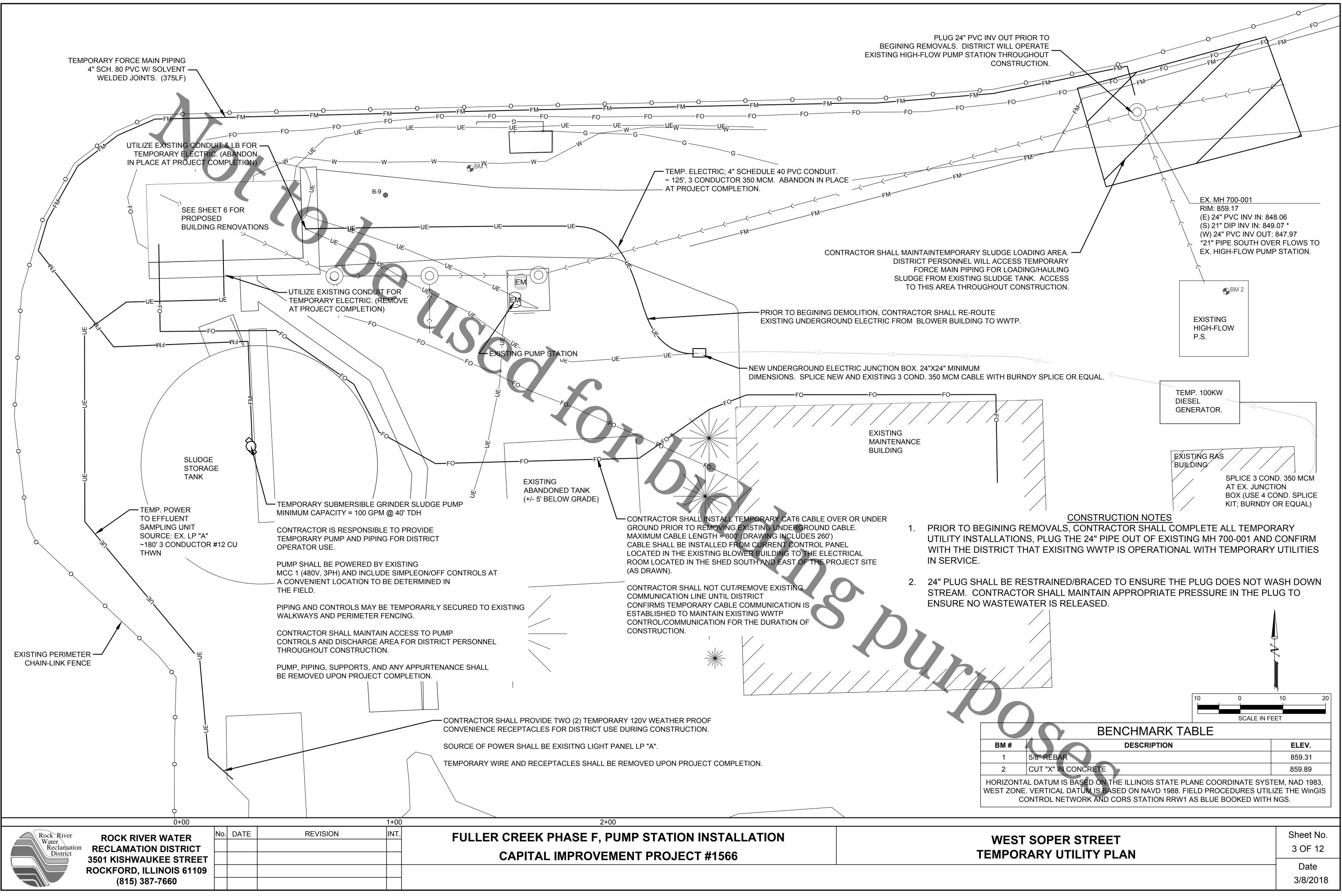
> TECTION OF WATER SUPPLIES SHALL BE PER THE REQUIREMENTS OF 35, C, SECTION 370.350 OF THE ILLINOIS RECOMMENDED STANDARDS

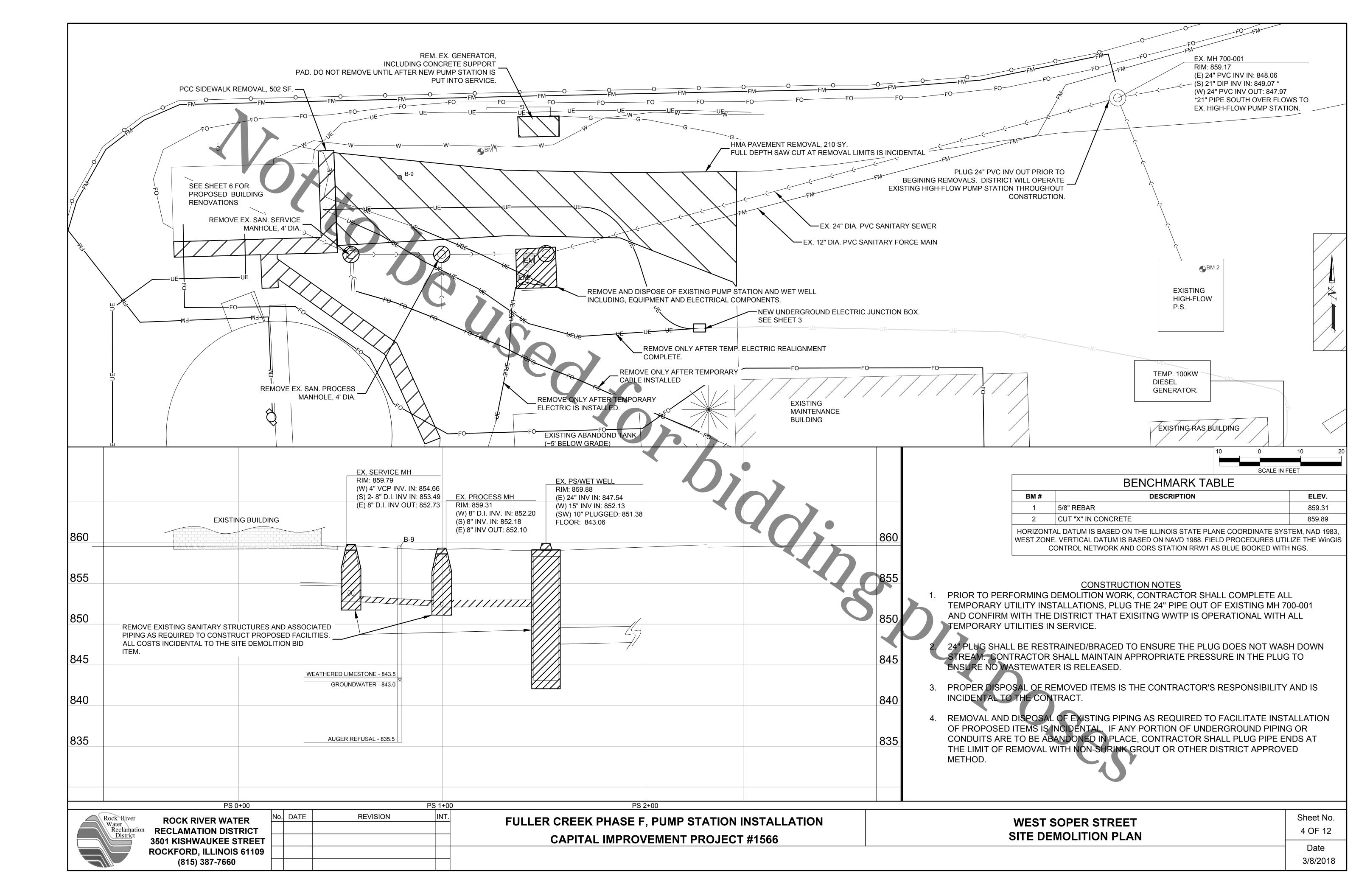


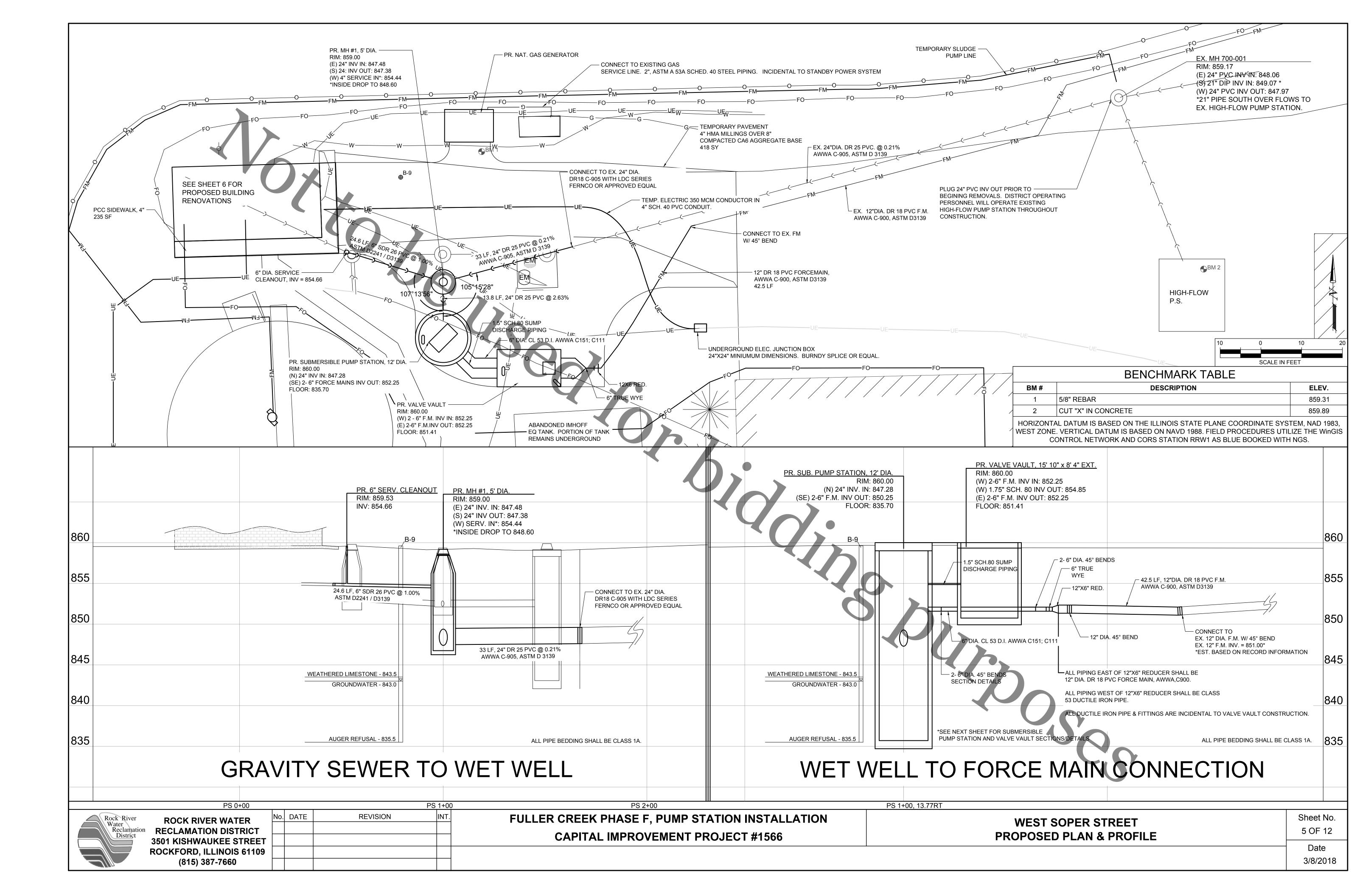
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	Date

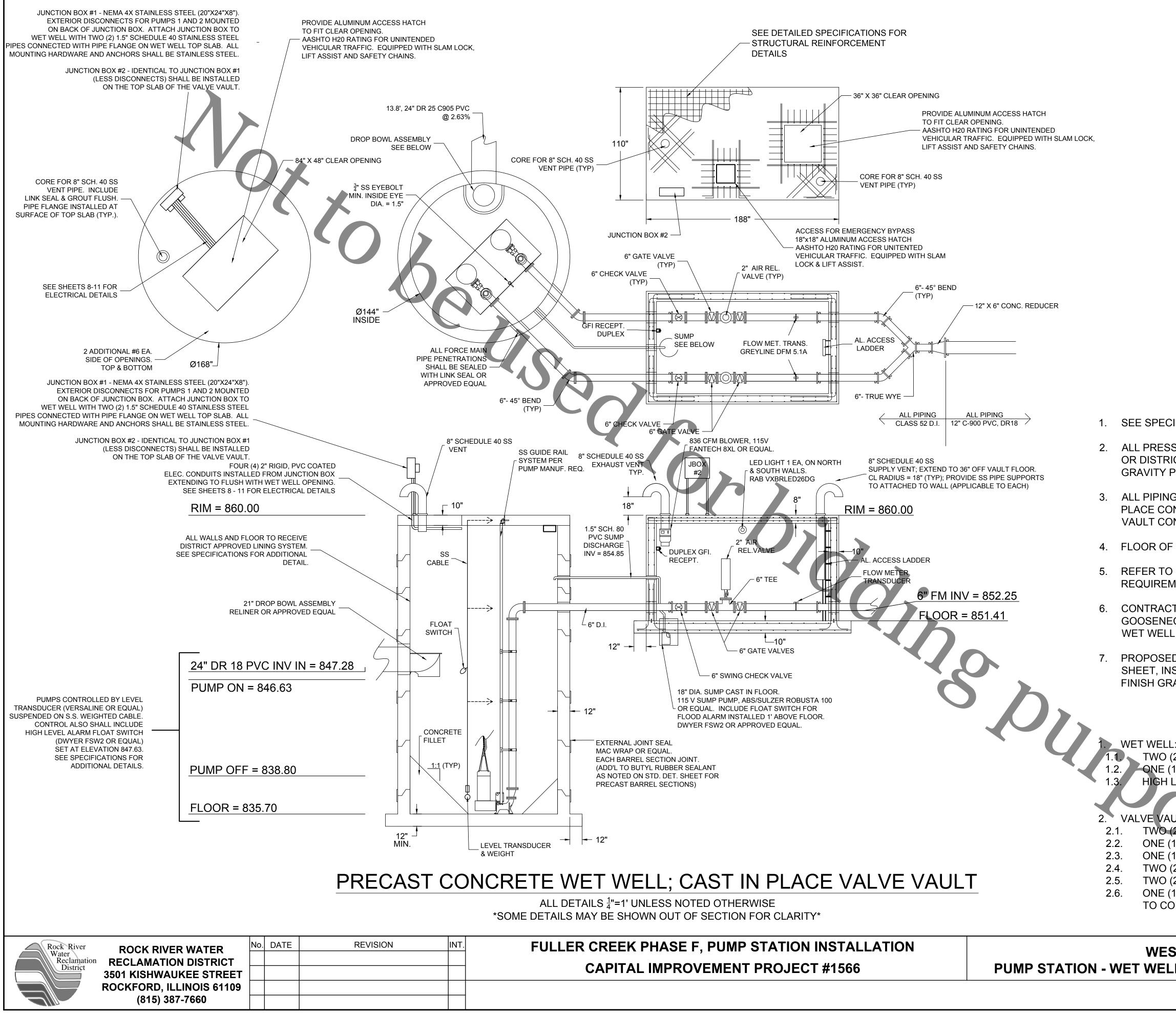
Dale

3/8/2018









- CONTRACTOR SHALL SUPPLY THREE (3) PUMPS TOTAL, INCLUDING 35' OF POWER AND CONTROL CABLE. TWO(2) PUMPS WILL BE INSTALLED IN THIS PROJECT. THE THIRD PUMP WILL BE STORED ON SITE AS A BACK-UP.
- 2. PUMPS SHALL BE 25HP, 480V, 60HZ GRINDER, CHOPPER OR NON-CLOG PUMPS CAPABLE OF PUMPING 809GPM @ 60.04' TDH.
- 3. PUMPS SHALL BE IDENTICAL
- 4. PUMPS SHALL BE AS MANUFACTURED BY VAUGHAN, ABS/SULZER, FLYGT, GRUNDFOS, HOMA OR DISTRICT APPROVED EQUIVALENT.
- 5. PUMP RAIL SYSTEM, LIFTING CHAINS OR CABLES, SUPPORTS, AND HARDWARE SHALL BE OF STAINLESS STEEL CONSTRUCTION AND COMPATIBLE WITH APPROVED PUMP.
- 6. SEE SPECIFICATIONS FOR PUMPS AND COMPONENT SUBMITTAL REQUIREMENTS.
- 7. CONTRACTOR SHALL SUPPLY LEVEL TRANSDUCER (GREYLINE DFM 5.1A). HIGH LEVEL FLOATS. STAINLESS STEEL CABLE, WEIGHT AND APPURTENANCES. THE CABLE AND WEIGHT TO WHICH LEVEL TRANSDUCER AND HIGH LEVEL FLOAT SWITCH SHALL BE ATTACHED TO THE SS EYE BOLT DETAILED ON THIS SHEET. SEE SPECIFICATIONS AND **ELECTRICAL PLAN SHEETS 8-11 FOR ADDITIONAL DETAIL**

#### CONSTRUCTION NOTES

SEE SPECIFICATIONS FOR ADDITIONAL DETAIL AND COMPONENT REQUIREMENTS.

2. ALL PRESSURE PIPE PENETRATIONS SHALL BE SEALED WITH A DOUBLE LINK SEAL OR DISTRICT APPROVED EQUAL. REFER TO THE STANDARD DETAIL SHEET FOR **GRAVITY PIPE PENETRATION SEALS.** 

ALL PIPING THROUGH VALVE VAULT SHALL BE PROPERLY SUPPORTED BY CAST IN PLACE CONCRETE OR STAINLESS STEEL SUPPORTS. INCIDENTAL TO VALVE VAULT CONSTRUCTION

FLOOR OF VALVE VAULT SHALL BE SLOPED TO DRAIN TO PROPOSED SUMP.

5. REFER TO SPECIFICATIONS AND DETAILS FOR AIR RELEASE VALVE INSTALLATION REQUIREMENTS.

CONTRACTOR SHALL ROTATE VENTILATION PIPING AS REQUIRED TO ENSURE GOOSENECK DOES NOT EXTEND BEYOND EXTERIOR PERIMETER OF VAULT OR WET WELL. FINAL ALIGNMENT WILL BE AS APPROVED BY THE DISTRICT.

PROPOSED PUMP STATION PAY ITEM INCLUDES ALL ITEMS DETAILED ON THIS SHEET, INSTALLED INCLUDING DUCTILE IRON PIPE, EXCAVATION, BACKFILL AND FINISH GRADING AND RESTORATION.

> ELECTRICAL EQUIPMENT SEE SHEETS 8 - 11 FOR ADDITIONAL DETAIL

TWO (2) 25 HP SUBMERSIBLE PUMPS 1.2. ONE (1) PMC VERSALINE VL2000 SERIES OR EQUAL LEVEL TRANSDUCER HIGH LEVEL ALARM FLOAT SWITCH DWYER FSW2 OR EQUAL

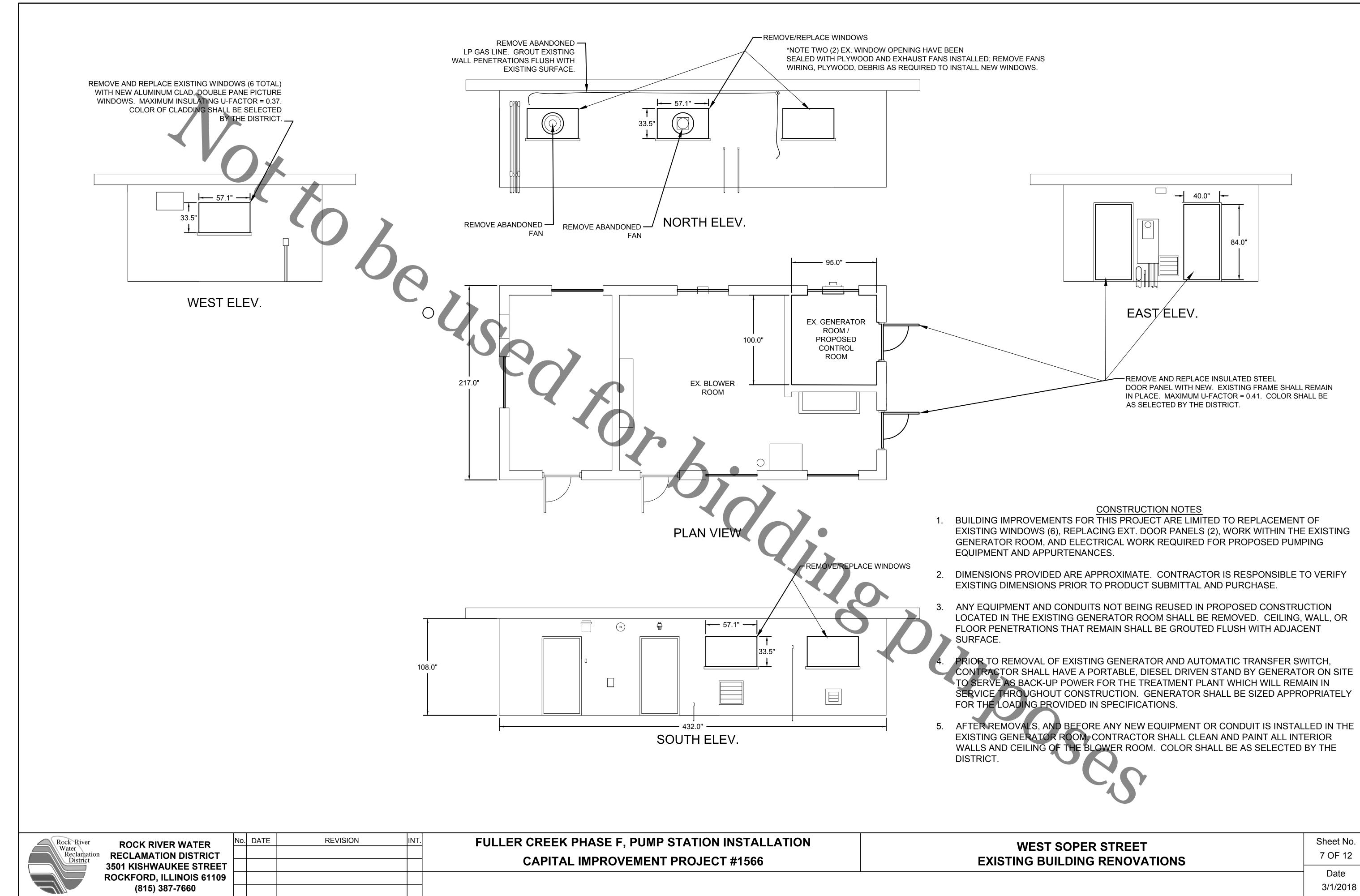
TWO (2) WALL MOUNTED LED LIGHTS; RAB VXBRLED26DG OR EQUAL. ONE (1) ABS/ROBUSTA 100 SUMP PUMP OR EQUAL.

ONE (1) FANTECH FKD8XL EXHAUST FAN OR EQUAL.

TWO (2) DUPLEX GFI RECEPTACLES (VAPOR PROOF).

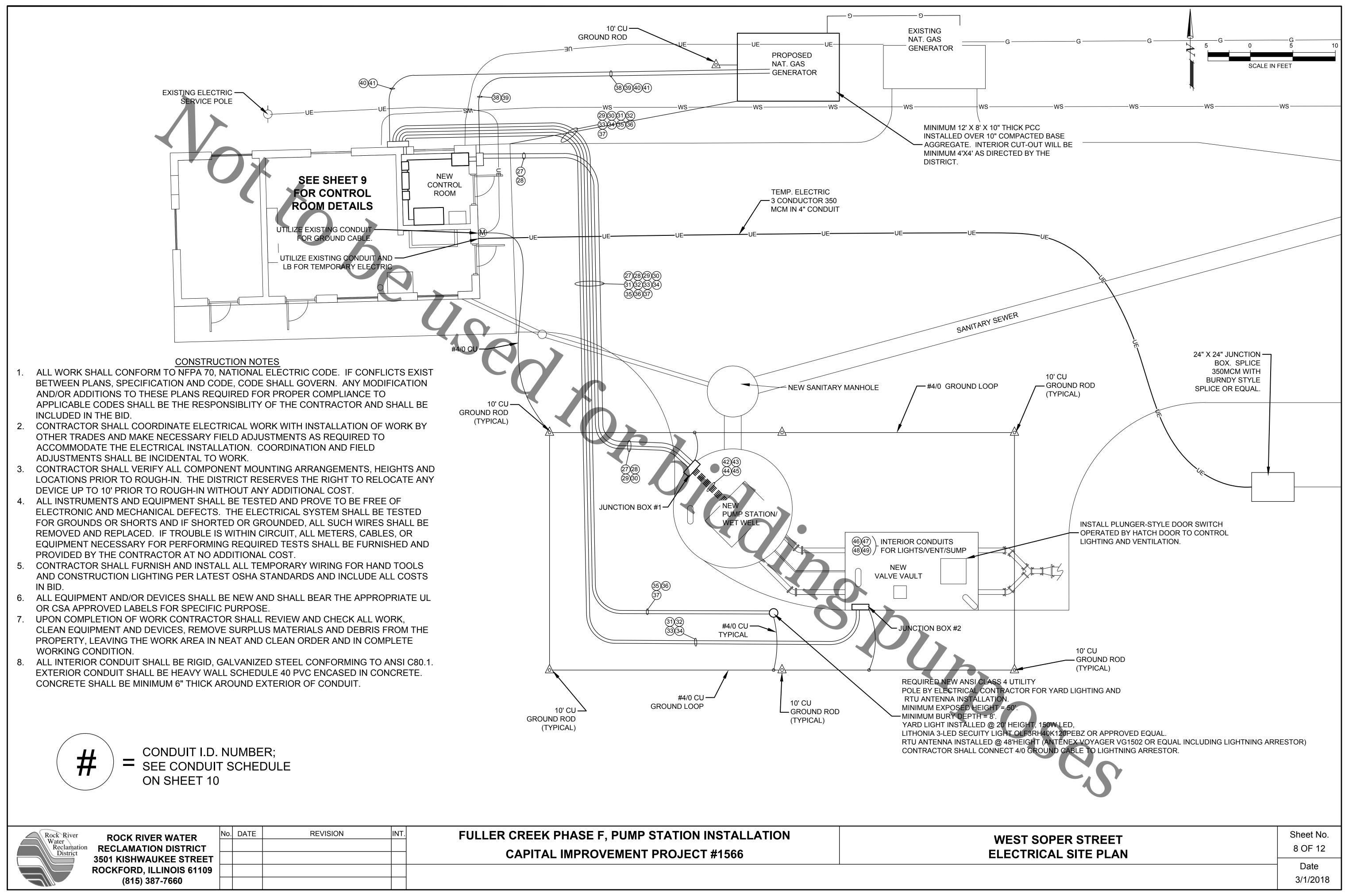
TWO (2) FLOW METER TRANSDUCERS, GREYLINE MODEL DFM 5.1.A OR EQUAL ONE (1) PLUNGER STYLE LIGHT SWITCH INSTALLED AT VAULT ACCESS HATCH TO CONTROL LIGHTING AND FAN. SWITCH SHALL BE VAPOR PROOF.

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	Date 3/8/2018

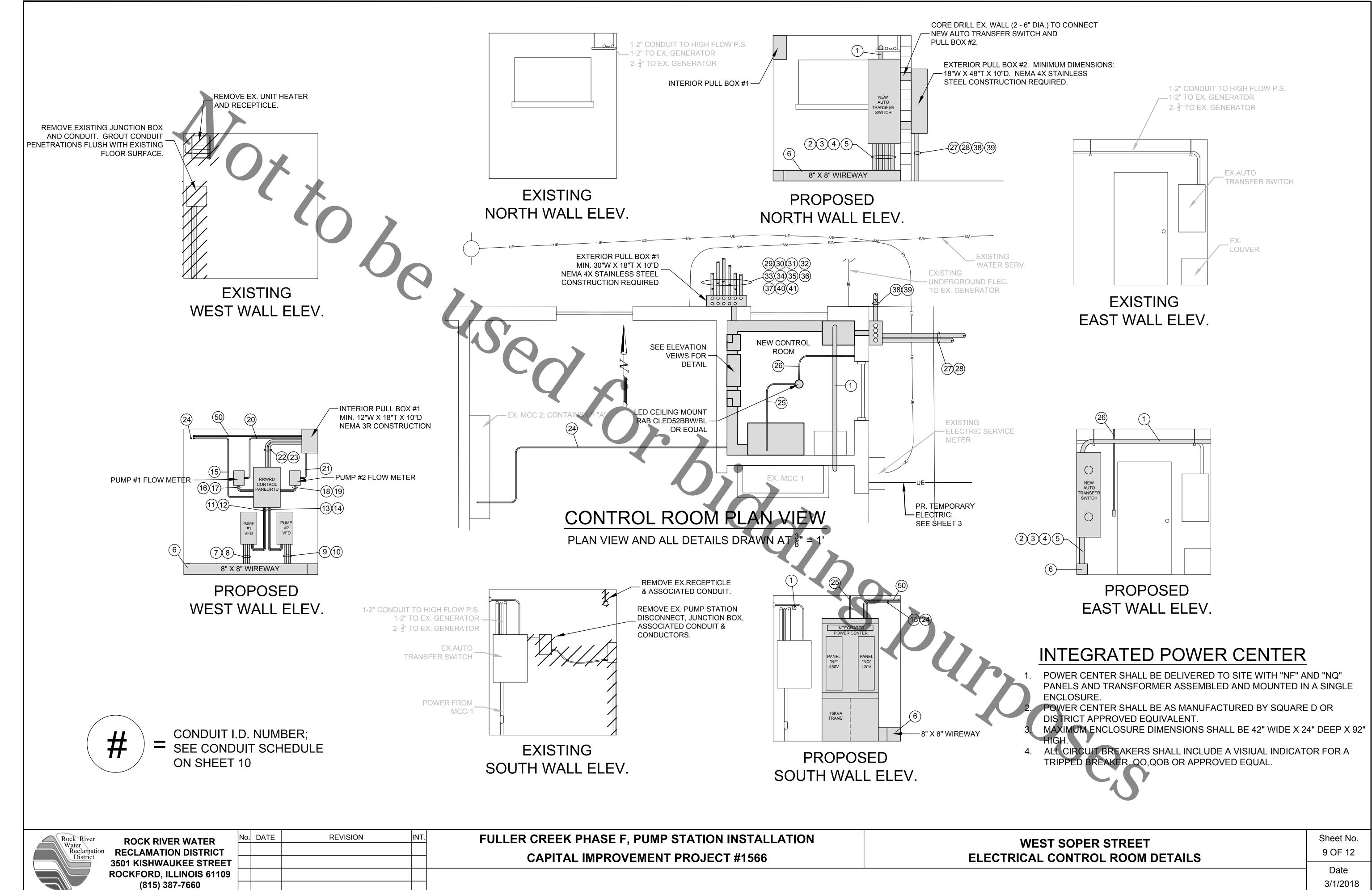


FULLER CREEK PHASE F, PUMP STATION INSTALLATION	
CAPITAL IMPROVEMENT PROJECT #1566	

Sheet No. 7 OF 12 Date



FULLER CREEK PHASE F, PUMP STATION INSTALLATION	
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CONDUIT I.D. NUMBER	INTERIOR/EXTERIOR	SIZE	FROM	то	APPROXIMATE LENGTH	CONDUCTORS (#) DESCRIPTION	ASSOCIATED EQUIPMENT
	INTERIOR - CTRL. BLDG.	3" DIAMETER	SERVICE METER	AUTO TRANS. SWITCH	14.7	(#) DESCRIPTION (1) 3 CONDUCTOR, 350 MCM	AUTO TRANSFER SWITCH (ATS)
2	INTERIOR - CTRL. BLDG.	3" DIAMETER	AUTO TRANS. SWITCH	CONDUIT 6	1.7	(1) 3 CONDUCTOR, 350MCM	ATS; INT. POWER CENTER
3	INTERIOR - CTRL, BLDG,	3" DIAMETER	AUTO TRANS. SWITCH	CONDUIT 6	1.7	(1) 3 CONDUCTOR, #8 SHIELDED VFD	VFD#1; PUMP #1
-						CABLE, 1000V RATED (1) 3 CONDUCTOR, #8 SHIELDED VFD	
4	INTERIOR - CTRL. BLDG.	3" DIAMETER	AUTO TRANS. SWITCH	CONDUIT 6	1.7	CABLE, 1000V RATED	VFD #2; PUMP #2
5	INTERIOR - CTRL. BLDG.	3" DIAMETER	AUTO TRANS. SWITCH	CONDUIT 6	1.7	SPARE - NO CONDUCTORS	-
6	INTERIOR - CTRL. BLDG.	8" X 8"	AUTO TRANS. SWITCH	INT. POWER CENT.	17.7	(2) 3 CONDUCTOR, #8 SHIELDED, 1000V RATED; (1) 3 CONDUCTOR, 350 MCM; (2) #8 CU THWN	ATS; INT. POWER CENTER; VFD # PUMP #1; VFD #2; PUMP #2
7	INTERIOR - CTRL. BLDG.	1 <sup>4</sup> DIAMETER	CONDUIT 6	VFD #1	1.4	(1) 3 CONDUCTOR #8 CU, THWN	INT. POWER CENTER; VFD #1
8	INTERIOR - CTRL. BLDG.	1 <del>]</del> " DIAMETER	CONDUIT 6	VFD #1	1.4	(1) 3 CONDUCTOR #8 SHIELDED VFD CABLE 1000V RATED	VFD #1; PUMP #1
9	INTERIOR - CTRL. BLDG.	1 <sup>1</sup> / <sub>2</sub> " DIAMETER	CONDUIT 6	VFD #2	1.4	(1) 3 CONDUCTOR #8 CU, THWN	INT. POWER CENTER; VFD #2
10	INTERIOR - CTRL. BLDG.	1 <sup>1</sup> / <sub>2</sub> " DIAMETER	CONDUIT 6	VFD #2	1.4	(1) 3 CONDUCTOR #8 SHIELDED VFD CABLE, 1000V RATED	VFD #2; PUMP #2
11	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	CONTROL PANEL	VFD #1	3.7	(2) 2 CONDUCTOR #18 CU THWN	CTRL PANEL; VFD #1
12	INTERIOR - CTRL. BLDG.	<sup>3</sup> / <sub>4</sub> " DIAMETER	CONTROL PANEL	VFD #1	3.7	(1) 2 CONDUCTOR #18 SHIELDED	CTRL PANEL; VFD #1
13	INTERIOR - CTRL. BLDG.	<sup>3</sup> / <sub>4</sub> " DIAMETER	CONTROL PANEL	VFD #2	3.7	(2) 2 CONDUCTOR #18 CU THWN	CTRL PANEL; VFD #2
14	INTERIOR - CTRL. BLDG.	<sup>3</sup> / <sub>4</sub> " DIAMETER	CONTROL PANEL	VFD #2	3.7	(1) 2 CONDUCTOR #18 SHIELDED	CTRL PANEL; VFD #2
15	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	INT. POWER CENTER	CONTROL PANEL	10.4	(1) 3 CONDUCTOR #10 CU THWN	INT. POWER CENTER; CTRL PAN
16	INTERIOR - CTRL. BLDG.	<sup>3</sup> / <sub>4</sub> " DIAMETER	CONTROL PANEL	FLOW METER #1	1.2	(1) 2 CONDUCTOR #18 SHIELDED	CONTROL PANEL; FLOW METER
17	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	CONTROL PANEL	FLOW METER #1	1.2	(1) 3 CONDUCTOR #12 CU THWN	CONTROL PANEL; FLOW METER
18	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	CONTROL PANEL	FLOW METER #2	1.2	(1) 2 CONDUCTOR #18 SHIELDED	CONTROL PANEL; FLOW METER
19	INTERIOR - CTRL. BLDG.	<sup>3</sup> / <sub>4</sub> " DIAMETER	CONTROL PANEL	FLOW METER #2	1.2	(1) 3 CONDUCTOR #12 CU THWN	CONTROL PANEL; FLOW METER
20	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	FLOW METER #1	PULL BOX #1	5.6	(1) 2 CONDUCTOR #18 SHIELDED	FLOW METER #1; FLOW TRANSDUC
21	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	FLOW METER #2	PULL BOX #1	1.9	(1) 2 CONDUCTOR #18 SHIELDED	FLOW METER #2; FLOW TRANSDUC
22	INTERIOR - CTRL. BLDG.	1 <del>1</del> DIAMETER	CONTROL PANEL	PULL BOX #1	3.6	(3) 2 CONDUCTOR #18 SHIELDED	WW LEVEL; PUMP #1 AMPS; PUMP AMPS
23	INTERIOR - CTRL. BLDG.	1 ½" DIAMETER	CONTROL PANEL	PULL BOX #1	3.5	(7) 2 CONDUCTOR #18; (2) 3 CONDUCTOR #12 CU THWN	WW FLOAT; PUMP #1 TEMP; PUMI TEMP; V.V. FLOAT; V.V. LIGHTING &
24	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	INT. POWER CENTER	EX. LP "A"	22.8	(1) 3 CONDUCTOR #6 CU THWN	INT. POWER CENTER; EX. LP"A
25	INTERIOR - CTRL. BLDG.	$\frac{3}{4}$ " DIAMETER	INT. POWER CENTER	CTRL. ROOM LIGHT	5.8	(1) 3 CONDUCTOR #12 CU THWN	INT. POWER CENTER; NEW LIGHT/S
26	INTERIOR - CTRL. BLDG.	¾" DIAMETER	WALL SWITCH	CTRL. ROOM LIGHT	9.9	(1) 3 CONDUCTOR #12 CU THWN	NEW LIGHT; NEW SWITCH
27	EXTERIOR - UNDERGROUND	3" DIAMETER	PULL BOX #2	JUNCTION BOX #1	67	(2) 3 CONDUCTOR #8 SHIELDED VFD CABLE, 1000V RATED	VFD #1; PUMP #1; VFD #2; PUMP
28	EXTERIOR - UNDERGROUND	3" DIAMETER	PULL BOX #2	JUNCTION BOX #1	67	SPARE - NO CONDUCTORS	
29	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	JUNCTION BOX #1	78	(1) 2 CONDUCTOR #18 SHIELDED	WET WELL LEVEL
30	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	JUNCTION BOX #1	78	(1) 2 CONDUCTOR #18 CU THWN	WET WELL FLOAT
31	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	JUNCTION BOX #2	128	(2) 2 CONDUCTOR #18 CU TWHN; (3) 3 CONDUCTOR #12 CU THWN	VALVE VAULT LIGHTS, VENTILATI SUMP PUMP RECEPTICLE
32	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	JUNCTION BOX #2	128	(2) 2 CONDUCTOR #18 SHIELDED	FLOW METER #1 TRANSDUCER; FL METER #2 TRANSDUCER
33	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	JUNCTION BOX #2	128	SPARE - NO CONDUCTORS	-
34	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	JUNCTION BOX #2	128	SPARE - NO CONDUCTORS	-
35	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	YARD LIGHT	130	(1) 3 CONDUCTOR #12 CU THWN	INT. POWER CENTER; YARD LIGHT
36	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	RTU ANTENNA	112	(1) RG 58 COAX CABLE	CTRL PANEL; RTU ANTENNA
37	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	YARD LIGHT UTILITY POLE	112	SPARE - NO CONDUCTORS	-
38	EXTERIOR - UNDERGROUND	3" DIAMETER	PULL BOX #2	NEW GENERATOR	52	(1) 3 CONDUCTOR 350 MCM	ATS; NEW GENERATOR
39	EXTERIOR - UNDERGROUND	3" DIAMETER	PULL BOX #2	NEW GENERATOR	52	SPARE - NO CONDUCTORS	-
40	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	NEW GENERATOR	63	(2) 2 CONDUCTOR #18 CU THWN	CTRL PANEL; NEW GENERATO
41	EXTERIOR - UNDERGROUND	2" DIAMETER	PULL BOX #1	NEW GENERATOR	63	SPARE - NO CONDUCTORS	-
42	INTERIOR - WET WELL	2" DIAMETER	PUMP #1 DISCONNECT	EDGE OF ACCESS OPENING	8	PUMP #1 CABLE (SUPPLIED W/ PUMP)	PUMP #1
43	INTERIOR - WET WELL	2" DIAMETER	JUNCTION BOX #1	EDGE OF ACCESS OPENING	8	(1) 2 CONDUCTOR #18 SHIELDED (SUPPLIED WITH TRANSDUCER)	WET WELL LEVEL TRANSDUCE
44	INTERIOR - WET WELL	2" DIAMETER	JUNCTION BOX #1	EDGE OF ACCESS OPENING	8	(1) 2 CONDUCTOR #18 CU THWN (SUPPLIED W/ FLOAT SWITCH)	WET WELL FLOAT SWITCH
45	INTERIOR - WET WELL	2" DIAMETER	PUMP #2 DISCONNECT	EDGE OF ACCESS OPENING	8	PUMP #2 CABLE (SUPPLIED W/ PUMP)	PUMP #2
46	INTERIOR - VALVE VAULT	⅔" DIAMETER	JUNCTION BOX #2	LIGHT AND VENTILATION CIRCUIT	30	(2) 3 CONDUCTOR #12 CU THWN	VALVE VAULT LIGHTING AND VENTIL
47	INTERIOR - VALVE VAULT	¾" DIAMETER	JUNCTION BOX #2	SUMP PUMP RECEPTICLE	15	(2) 3 CONDUCTOR #12 CU THWN	VALVE VAULT SUMP RECEPTIC
48	INTERIOR - VALVE VAULT	⅔" DIAMETER	JUNCTION BOX #2	FLOAT SWITCH	15	(1) 2 CONDUCTOR #18 CU THWN	VALVE VAULT FLOAT SWITCH
49	INTERIOR - VALVE VAULT	¾" DIAMETER	JUNCTION BOX #2		26	(1) 2 CONDUCTOR #18 CU THWN	ACCESS STATUS (CTRL TO PLUNC
-		<u> </u>		(PLUNGER STYLE ON HATCH)			SWITCH ON ACCESS HATCH)



ROCK RIVER WATER	No.	DATE	REVISION	INT.	
RECLAMATION DISTRICT					
3501 KISHWAUKEE STREET					
ROCKFORD, ILLINOIS 61109					
(815) 387-7660					

## **GROUNDING SYSTEM**

SEE PROPOSED GROUND LOOP ON SITE ELECTRICAL SITE PLAN				
ITEM	QUANTITY			
10' CU GROUND RODS	7 EACH			
#4/0 CU GROUNDING CABLE	205FEET			

## EQUIPMENT SCHEDULE

CONTROL ROOM				
ITEM	DESCRIPTION, MAKE & MODEL			
INTEGRATED POWER CENTER	SQUARE D IPC2TC2TC-5EE			
AUTOMATIC TRANSFER SWITCH	ASCO 300 SERIES 400AMP, CAT. NO. J-03ATS-A-3-400-480-GO-F			
PUMP #1 VFD	480V, 3PH, 30HP CONSTANT TORQUE BY ABB OR DANFOSS			
PUMP #2 VFD	480V, 3PH, 30HP CONSTANT TORQUE BY ABB OR DANFOSS			
PUMP #1 FLOW METER	GREYLINE INSTRUMENTS #DFM5.1A-1-A-A-1-A-1-B-1-A			
PUMP #2 FLOW METER	GREYLINE INSTRUMENTS #DFM5.1A-1-A-A-1-A-1-A-1-A			
CONTOL ROOM LIGHT	LED CEILING MOUNT - RAB CLED52BBW/BL			
RRWRD CONTROL PANEL *	ASSEMBLED AND SUPPLIED BY THE DISTRICT*			
	WET WELL			
PUMP #1	25 HP SUBMERSIBLE CAPABLE OF 809GPM @ 60.4'TDH AS MANUFACTURED BY VAUGHN, GRUNDFOS, ABS, FLYGT OR, HOMA			
PUMP #2	25 HP SUBMERSIBLE CAPABLE OF 809GPM @ 60.4'TDH AS MANUFACTURED BY VAUGHN, GRUNDFOS, ABS, FLYGT OR, HOMA			
LEVEL TRANSDUCER	PMC VERSALINE VL2113-10PSIG-35'-IS			
HIGH LEVEL FLOAT SWITCH	DWYER SERIES FSW2			
	VALVE VAULT			
LIGHTING	2- WALL MOUNTED RAB VXBRLED26DG			
EXHAUST FAN	FANTECH MODEL FKD8XL, 115V			
SUBMERSIBLE PUMP	ABS/ROBUSTA 100, 115V			
PUMP #1 FLOW METER TRANSDUCER	SUPPLIED W/ FLOWMETER (GREYLINE) SEE CTRL ROOM EQUIP.			
PUMP #2 FLOW METER TRANSDUCER	SUPPLIED W/ FLOWMETER (GREYLINE) SEE CTRL ROOM EQUIP.			
FLOOD ALARM SWITCH	DWYER SERIES FSW2			
NEW UTILITY POLE				
YARD LIGHTING	LITHONIA SECURITY FLOODLIGHT, OLF-3RH-40K-120-PE-BZ			
RTU ANTENNA	ANTENEX VOYAGER, VG1502 WITH LIGHTNING ARRESTOR			

# CONDUCTOR TYPE/TOTAL PROJECT LENGTH

TEMPORARY UTILITY CONDUCTORS + TOTAL FROM	CONDUIT SCHEDULE + 10% (ESTIMATE ONLY, CONTRACTOR TO FIELD VERIFY)
CONDUCTOR	QUANTITY
3 CONDUCTOR 350 MCM (INCLUDING 125' TEMP)	219 FEET
3 CONDUCTOR #6 CU THWN	25 FEET
3 CONDUCTOR #8 SHIELDED VFD CABLE, 1000V RATED	194 FEET
3 CONDUCTOR #8 CU THWN	42 FEET
3 CONDUCTOR #10 CU THWN	12 FEET
3 CONDUCTOR #12 CU THWN (INCLUDING 180' TEMP)	905 FEET
2 CONDUCTOR #18 CU THWN	578 FEET
2 CONDUCTOR #18 SHIELDED	399 FEET
RG 58 COAXIAL CABLE	124 FEET
CAT 6 CABLE (TEMPORARY)	300 FEET
	CONDUIT AND CONDUCTOR REQUIREME
	1. ALL LENGTHS PROVIDED ARE ESTIMATED; CONTRACTOR SHALL CONDUITS AND CONDUCTORS IN THE FIELD.

#### NOTES REGARDING EQUIPMENT 1

DISTRICT WILL SUPPLY A COMPLETELY ASSEMBLED CONTROL PANEL TO CONTRACTOR.

- 2. CONTRACTOR SHALL PULL AND PREPARE WIRING TO CONTROL PANEL FOR DISTRICT PERSONNEL
- TO LAND. CONTRACTOR SHALL NOT LAND ANY WIRES IN THE CONTROL PANEL. 3. ALL SPECIFIC MANUFACTURES AND MODELS LISTED SHALL BE CONSIDERED STANDARD.
- CONTRACTOR MAY SUBMIT "EQUAL" ITEMS AS SUBSTITUTE FOR DISTRICT REVIEW AND APPROVAL.

# FULLER CREEK PHASE F, PUMP STATION INSTALLATION **CAPITAL IMPROVEMENT PROJECT #1566**

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### NTS

VERIFY REQUIRED LENGTHS OF

ALL CONDUCTORS SHALL BE STRANDED COPPER, THHN OR TWHN. REQUIRED COLORS FOR INSULATION SHALL BE AS FOLLOWS:

480V - BROWN, ORANGE, YELLOW 120V - BLACK, RED, WHITE

24VDC - BLUE

3.3. 24VDC - BLUE
ALL INTERIOR CONDUITS SHALL BE RIGID GALVANIZED STEEL CONFORMING TO ANSI C80.1 AND MANUFACUTURED IN ACCORDANCE WITH UL6.
ALL EXPOSED EXTERIOR CONDUIT AND CONDUITS INSTALLED IN THE PROPOSED WET WELL AND VALVE VAULT SHALL BE PVC COATED METAL CONDUIT CONFORMING TO NEMA RN1, ANSI C80.1.
UNLESS NOTED ELSEWHERE IN PLANS ALL INTERIOR ENCLOSURES SHALL CONFORM TO NEMA 12; ALL EXTERIOR SHALL CONFORM TO NEMA 3R.
ALL BURIED CONDUIT SHALL BE SHEDULE 40 PVC ENCASED IN CONCRETE.
DIAMETERS INDICATED FOR CONDUITS SHALL BE CONSIDERED MINIMUM.
CONTRACTOR SHALL COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC). SHOULD

CONTRACTOR SHALL COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC). SHOULD PLANS AND SPECIFICATIONS CONTAIN CONFLICTS WITH NEC; NEC SHALL GOVERN. NO ADDITIONAL

PAYMENT WILL BE MADE FOR MODIFICATIONS OR ADDITIONS TO COMPLY WITH THE CURRENT NEC.

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	Date 3/1/2018

