



**ADDENDUM NO. 02  
ROAD 36 LIFT STATION UPGRADES  
Contract No. 16006  
October 6, 2020**

**Addendum No. 2 Acknowledgement Page**

This addendum includes:

- 2 - 8 ½ x 11” Acknowledgement Pages
- 2 - 8 ½ x 11” Specification and Plan Sheet Clarifications/Changes
- 3 – 11” x 17” Updated Plan Sheets

**7 Total Sheets**

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 NOTICE is hereby given that this **acknowledgement page** must be signed and enclosed with the sealed bid for the **Road 36 Lift Station Upgrades, Contract No. 16006** as evidence that the bidder has familiarized themselves with all information incorporated herein.

**Do NOT include the entire contents of this Addendum in your bid submission.**  
**Only this signed acknowledgement page is required.**

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Name (Please Print) Title

\_\_\_\_\_  
Signature

**The Bid Opening Schedule remains unchanged.**

**Submittals are due on:**

**November 4, 2020 AT 2:00 PM**

**This addendum will be sent through Quest CDN Only.**



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Erik Simmons, PE  
HDR, Inc.

This Addendum No. 2 is hereby issued for the **Road 36 Lift Station Upgrades** project, and therefore made a part of and incorporated into that certain **Contract No. 16006**, referred to as “Contract Documents”).

The following formatting has been used to note additions and deletions to the contract documents.

- Deletions are formatted as stricken through (~~example~~) text
- Changes are formatted as bolded (**example**) text
- Changes/additions are clouded on the drawings.

### **SPECIFICATIONS**

1. Remove CSI TECHNICAL SPECIFICATION SECTION 26 32 14 paragraph 2.2.M.4 in its entirety.
2. CSI TECHNICAL SPECIFICATION SECTION 26 32 14 paragraph 3.1.E is revised as follows:

Provide control wiring in conduit between generator control panel [~~remote annunciator panel(s)~~] and remote devices as described under generator instrument and controls paragraph and ~~remote annunciator paragraph~~ of this Specification.

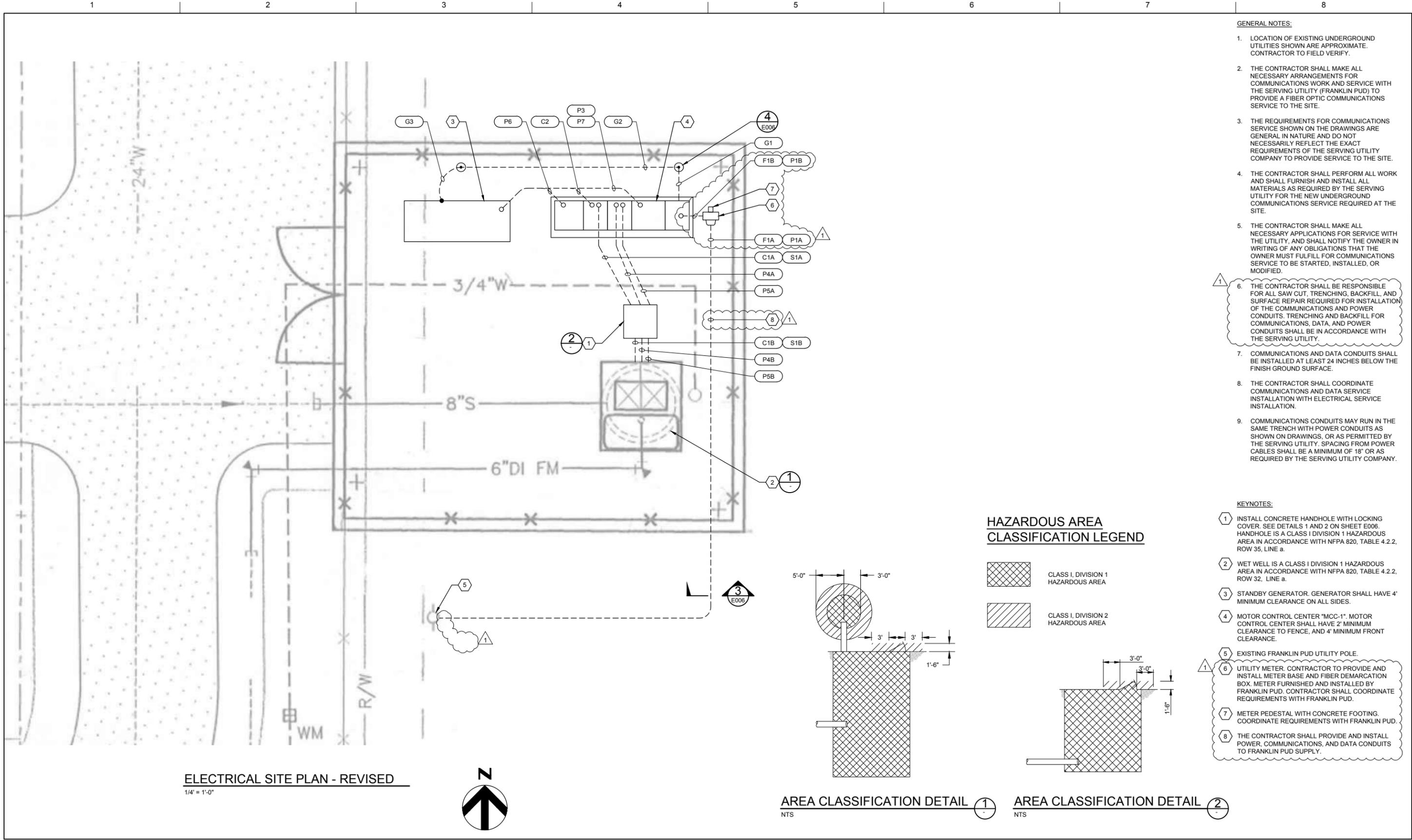
3. CSI TECHNICAL SPECIFICATION SECTION 26 32 14 paragraph 3.2.B.8 is revised as follows:

Test all safeties specified for generator instruments and controls [~~and generator remote annunciator panel~~] as recommended by manufacturer and as required to verify proper operation.

### **PLAN SHEETS**

The following electrical sheets will be replaced. Changes have been clouded.

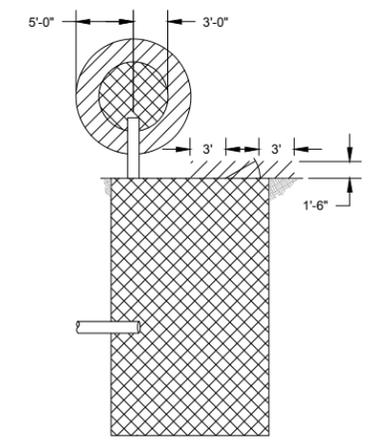
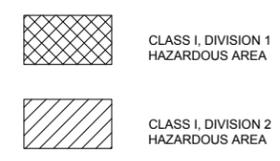
1. E004 – Road 36 Lift Station Electrical Site Plan - Revised
2. E005 – Road 36 Lift Station One-Line Diagram
3. E006 – Road 36 Lift Station Electrical Details



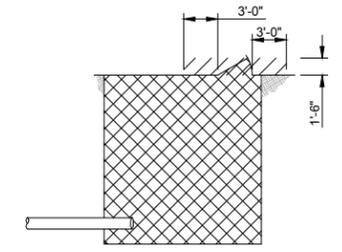
- GENERAL NOTES:**
1. LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
  2. THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR COMMUNICATIONS WORK AND SERVICE WITH THE SERVING UTILITY (FRANKLIN PUD) TO PROVIDE A FIBER OPTIC COMMUNICATIONS SERVICE TO THE SITE.
  3. THE REQUIREMENTS FOR COMMUNICATIONS SERVICE SHOWN ON THE DRAWINGS ARE GENERAL IN NATURE AND DO NOT NECESSARILY REFLECT THE EXACT REQUIREMENTS OF THE SERVING UTILITY COMPANY TO PROVIDE SERVICE TO THE SITE.
  4. THE CONTRACTOR SHALL PERFORM ALL WORK AND SHALL FURNISH AND INSTALL ALL MATERIALS AS REQUIRED BY THE SERVING UTILITY FOR THE NEW UNDERGROUND COMMUNICATIONS SERVICE REQUIRED AT THE SITE.
  5. THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS FOR SERVICE WITH THE UTILITY, AND SHALL NOTIFY THE OWNER IN WRITING OF ANY OBLIGATIONS THAT THE OWNER MUST FULFILL FOR COMMUNICATIONS SERVICE TO BE STARTED, INSTALLED, OR MODIFIED.
  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUT, TRENCHING, BACKFILL, AND SURFACE REPAIR REQUIRED FOR INSTALLATION OF THE COMMUNICATIONS AND POWER CONDUITS, TRENCHING AND BACKFILL FOR COMMUNICATIONS, DATA, AND POWER CONDUITS SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY.
  7. COMMUNICATIONS AND DATA CONDUITS SHALL BE INSTALLED AT LEAST 24 INCHES BELOW THE FINISH GROUND SURFACE.
  8. THE CONTRACTOR SHALL COORDINATE COMMUNICATIONS AND DATA SERVICE INSTALLATION WITH ELECTRICAL SERVICE INSTALLATION.
  9. COMMUNICATIONS CONDUITS MAY RUN IN THE SAME TRENCH WITH POWER CONDUITS AS SHOWN ON DRAWINGS, OR AS PERMITTED BY THE SERVING UTILITY. SPACING FROM POWER CABLES SHALL BE A MINIMUM OF 18" OR AS REQUIRED BY THE SERVING UTILITY COMPANY.

- KEYNOTES:**
1. INSTALL CONCRETE HANDHOLE WITH LOCKING COVER. SEE DETAILS 1 AND 2 ON SHEET E006. HANDHOLE IS A CLASS 1 DIVISION 1 HAZARDOUS AREA IN ACCORDANCE WITH NFPA 820, TABLE 4.2.2, ROW 35, LINE a.
  2. WET WELL IS A CLASS 1 DIVISION 1 HAZARDOUS AREA IN ACCORDANCE WITH NFPA 820, TABLE 4.2.2, ROW 32, LINE a.
  3. STANDBY GENERATOR. GENERATOR SHALL HAVE 4' MINIMUM CLEARANCE ON ALL SIDES.
  4. MOTOR CONTROL CENTER "MCC-1". MOTOR CONTROL CENTER SHALL HAVE 2' MINIMUM CLEARANCE TO FENCE, AND 4' MINIMUM FRONT CLEARANCE.
  5. EXISTING FRANKLIN PUD UTILITY POLE.
  6. UTILITY METER. CONTRACTOR TO PROVIDE AND INSTALL METER BASE AND FIBER DEMARCATION BOX. METER FURNISHED AND INSTALLED BY FRANKLIN PUD. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH FRANKLIN PUD.
  7. METER PEDESTAL WITH CONCRETE FOOTING. COORDINATE REQUIREMENTS WITH FRANKLIN PUD.
  8. THE CONTRACTOR SHALL PROVIDE AND INSTALL POWER, COMMUNICATIONS, AND DATA CONDUITS TO FRANKLIN PUD SUPPLY.

**HAZARDOUS AREA CLASSIFICATION LEGEND**



AREA CLASSIFICATION DETAIL 1  
NTS



AREA CLASSIFICATION DETAIL 2  
NTS

**ELECTRICAL SITE PLAN - REVISED**  
1/4" = 1'-0"



1130 W. HAYDEN AVE, SUITE #101  
HAYDEN, IDAHO 83835  
(208) 676-8001 (888) 972-1887

PROJECT MANAGER		E SIMMONS
STRUCTURAL		
PROCESS		M KALIEVA
MECHANICAL / HVAC		
ELECTRICAL		G WEISZ
INSTRUMENTATION		G WEISZ
DESIGN LEAD/QC		J KOCH
PROJECT NUMBER		10076241

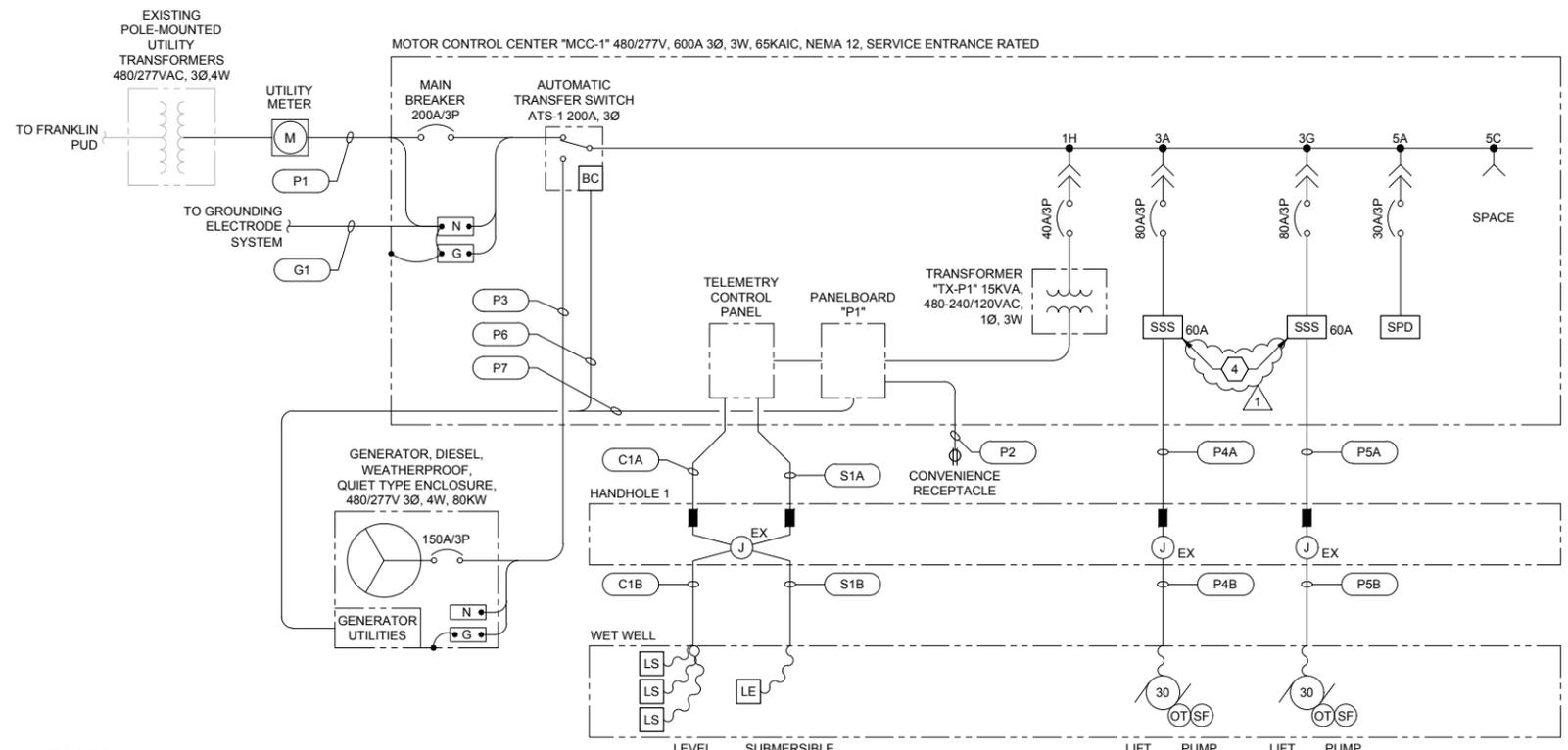
ISSUE	DATE	DESCRIPTION
1	6/18/20	ADDENDUM 2
0	5/22/20	ISSUED FOR BID

6/17/2020

**City of Pasco**  
Lift Station Improvements

**ROAD 36 LIFT STATION ELECTRICAL SITE PLAN - REVISED**

FILENAME | E004.dwg  
SCALE | AS NOTED  
SHEET | E004



LOAD CALCULATION					NOTES
LOAD	HP	KVA	DF	KVA	
PUMP 1	30	33.3	1.25	41.6	
PUMP 2	30	33.3	1.00	33.3	
PANELBOARD		0.3	1.00	0.3	
<b>TOTAL KVA</b>					75.1
<b>TOTAL AMPS</b>					90.4 @ 480 VOLTS, 3 PHASE

**PANEL: P1**

VOLT: 240/120V 1 PHASE 3 WIRE

BUS: 125 AMP

MAIN: 70 AMP, 2P

MCC MOUNTED 18 AIC NEMA 12 ENCLOSURE

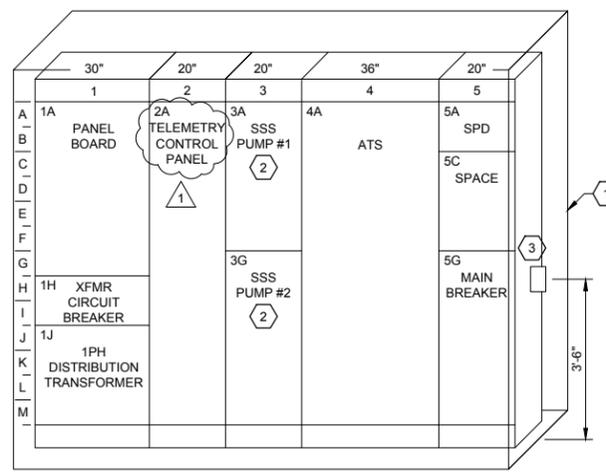
DESCRIPTION	C	L	N	K	A	P	VA PER PHASE		P	A	K	N	L	C	DESCRIPTION	
							A	B								
GFCI RECEPTACLE	1	180					1180		2	20	0			1000	2	GENERATOR BLOCK HEATER
PLC/RTU	3	500						1500	2	20	0			1000	4	
MCC COOLING FAN	5	500					500		1	20	0			0	6	SPARE
SPARE	7	0					0		1	20	0			0	8	SPARE
SPARE	9	0					0		1	20	0			0	10	SPARE
SPARE	11	0					0		1	20	0			0	12	SPARE
SPARE	13	0					0		1	20	0			0	14	SPARE
SPARE	15	0					0		1	20	0			0	16	SPARE
SPARE	17	0					0		1	20	0			0	18	SPARE
SPARE	19	0					0		1	20	0			0	20	SPARE
SPARE	21	0					10		2	30	0			10	22	SPD
SPARE	23	0					10		*	*	0			10	24	*

M: MOTOR LOAD N: NO CALCULATION/INTERLOCKED 0 0 PANEL: NONE LUGGED LOAD  
 S: SUBFEED LOAD L: LIGHTING LOAD O: OTHER 1510 1690 DOWNSTREAM SUBFEED AND PANEL LOAD  
 R: RECEPTACLE LOAD K: KITCHEN LOAD 1690 1510 TOTAL PANEL LOAD

LOAD TYPE	DEMAND	DESIGN	CONNECTED	VALUE	TOTALS
L- GENERAL LIGHTING LOAD	125 %	0	0	10.7	% MAX PHASE IMBALANCE
R- RECEPTACLE LOAD (PER NEC ART. 220-13)	180	180	180	3.2	TOTAL CONNECTED KVA
M- MOTOR LOADS	100 %	0	0	13.3	TOTAL CONNECTED AMPS
K- KITCHEN RECEPTACLES	0 AT 0 %	0	0	0.0	25% OF LARGEST MOTOR AMPS
O- ALL OTHER LOADS	100 %	3020	3020	13.3	TOTAL DESIGN AMPS

- KEYNOTES:**
- NEMA 1 GASKETED MCC INSTALLED IN A NEMA 3R LOCKABLE ENCLOSURE. ENCLOSURE TO INCLUDE INTEGRAL FULLY REDUNDANT, THERMOSTATICALLY CONTROLLED FAN COOLING SYSTEM. FAN COOLING SYSTEM SHALL NOT VENTILATE TRANSFORMER TX-P1 HEAT ACROSS OTHER MCC SECTIONS. ENCLOSURE TO INCLUDE 3-POINT LOCKING HANDLES AND DOOR INTRUSION SWITCH(ES) FOR ALL DOORS, WIRED IN SERIES FOR PLC SYSTEM MONITORING.
  - INTEGRATE PUMP SUPERVISION RELAYS INTO PUMP STARTER UNIT DOORS. DOOR MOUNT STARTER HIM MODULES, STATUS INDICATING LIGHTS, RUNTIME METERS AND START CYCLE COUNTERS.
  - WP GFCI CONVENIENCE RECEPTACLE INSTALLED IN A WEATHERPROOF BOX WITH A LOCKABLE METAL WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER.
  - ALLEN-BRADLEY SMC-FLEX, OR EQUAL. PROVIDE ETHERNET IP COMMUNICATION MODULE, PUMP CONTROL OPTION, AND FACTORY START-UP.

**ONE-LINE DIAGRAM**



**MCC-1 NAMEPLATE SCHEDULE**

	NP - LINE 1	NP - LINE 2
1A	PANEL BOARD	"P1"
1H	XFMR CIRCUIT BREAKER	
1J	1PH DISTRIBUTION TRANSFORMER	"TX-P1"
2A	TELEMETRY CONTROL PANEL	
3A	SOFT STARTER	"LIFT PUMP #1"
3G	SOFT STARTER	"LIFT PUMP #2"
4A	AUTOMATIC TRANSFER SWITCH	"ATS-1"
5A	SPD	
5C	SPACE	
5G	MAIN CIRCUIT BREAKER	

**CONDUIT AND WIRE SCHEDULE**

TAG	NO. OF RUNS	CONDUIT TRADE SIZE PER RUN	COPPER WIRES PER RUN	FROM	TO	NOTES
P1A	1	2-1/2	BY FRANKLIN PUD	FRANKLIN PUD	UTILITY METER	
P1B	1	2-1/2	(4) 3Ø AWG	UTILITY METER	MCC-1 (MAIN CIRCUIT BREAKER)	
P2	1	3/4	(2) 12 AWG, (1) 12 AWG	MCC-1 (PANELBOARD P1)	MCC-1 (CONVENIENCE RECEPTACLE)	
P3	1	2	(4) 1Ø AWG, (1) 6 AWG EGC	MCC-1 (AUTOMATIC TRANSFER SWITCH)	STANDBY GENERATOR (MAIN CIRCUIT BREAKER)	
P4A	1	1	(3) 8 AWG, (1) 10 AWG GND, (5) 14 AWG	MCC-1 (LIFT PUMP #1 SOFT STARTER)	JUNCTION BOX IN HANDHOLE	
P4B	1	2-1/2	MANUFACTURER'S CABLE	JUNCTION BOX IN HANDHOLE	LIFT PUMP #1	
P5A	1	1	(3) 8 AWG, (1) 10 AWG GND, (5) 14 AWG	MCC-1 (LIFT PUMP #2 SOFT STARTER)	JUNCTION BOX IN HANDHOLE	
P5B	1	2-1/2	MANUFACTURER'S CABLE	JUNCTION BOX IN HANDHOLE	LIFT PUMP #2	
P6	1	1	(3) 10 AWG, (1) 12 AWG	MCC-1 (PANELBOARD P1)	STANDBY GENERATOR (GENERATOR BLOCK HEATER)	GENERATOR COOLANT HEATER
P7	1	1	(2) 10 AWG, (1) 12 AWG	MCC-1 (AUTOMATIC TRANSFER SWITCH)	STANDBY GENERATOR (BATTERY)	GENERATOR BATTERY CHARGER
C1A	1	1	(10) 14 AWG, (1) 12 AWG GND	MCC-1 (TELEMETRY CONTROL PANEL)	JUNCTION BOX IN HANDHOLE	LEVEL SWITCHES
C1B	1	2 1/2	MANUFACTURER'S CABLE (3)	JUNCTION BOX IN HANDHOLE	LEVEL SWITCHES (FLOATS)	
C2	1	1	(12) 14 AWG, (1) 12 AWG GND	MCC-1 (AUTOMATIC TRANSFER SWITCH)	GENERATOR CONTROL PANEL	GENERATOR AND ENCLSURE ALARMS, CALL TO RUN
S1A	1	1	(2) 16 AWG STP	MCC-1 (TELEMETRY CONTROL PANEL)	JUNCTION BOX IN HANDHOLE	SUBMERSIBLE LEVEL TRANSDUCER
S1B	1	2 1/2	MANUFACTURER'S CABLE	JUNCTION BOX IN HANDHOLE	SUBMERSIBLE LEVEL TRANSDUCER	
F1A	1	2	FIBER BY UTILITY	FIBER NETWORK JUNCTION BOX (UTILITY POLE)	FIBER DEMARCATION BOX	FOR FIBER CONNECTION
F1B	1	2	(1) 6 STRAND FIBER OPTIC CABLE	FIBER DEMARCATION BOX	TELEMETRY CONTROL PANEL	FOR FIBER CONNECTION
G1	1	1	1Ø AWG BARE STRANDED COPPER	MCC MAIN DISCONNECT	GROUND ROD	
G2	1	-	1Ø AWG BARE STRANDED COPPER		GROUND ROD	
G3	1	-	1Ø AWG BARE STRANDED COPPER		GENERATOR FRAME	

NOTE 1 - TYPICALLY, THE CONDUIT TAG NAMING CONVENTION IS BASED ON CONDUCTOR TERMINATION POINTS, NOT INTERMEDIATE ROUTING POINTS (SUCH AS HANDHOLES OR JUNCTION BOXES).

NOTE 2 - LIGHTING AND RECEPTACLE BRANCH CIRCUITS ARE NOT INCLUDED IN THIS SCHEDULE.

NOTE 3 - CONDUITS FILL FOR SIGNAL WIRING IS CALCULATED USING THE DIAMETER OF BELDEN #8719 STP CABLE.

NOTE 4 - WIRE GENERATOR AND AUTOMATIC TRANSFER SWITCH AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND MANUFACTURER SUPPLIED WIRING DIAGRAMS.



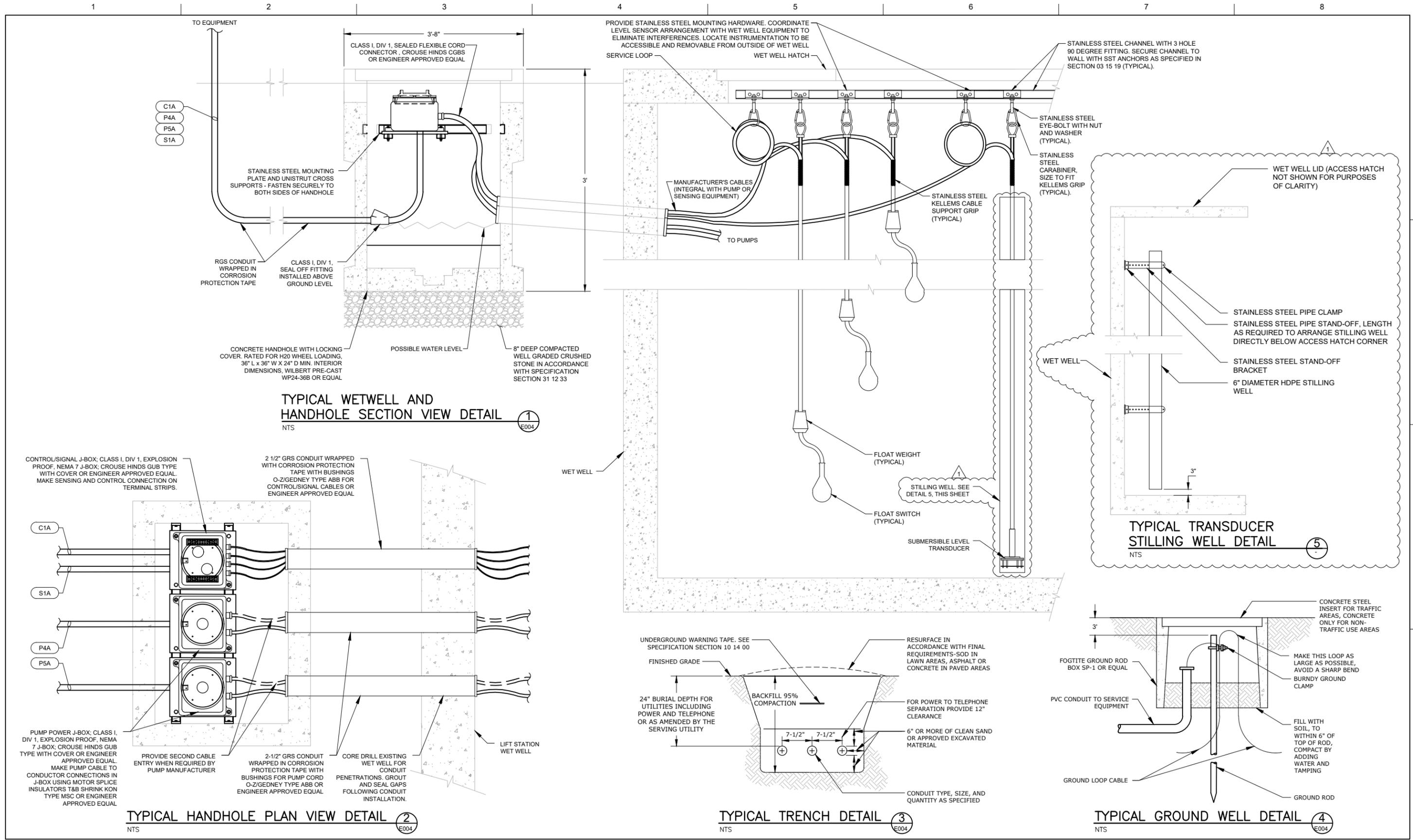
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STRUCTURAL	
PROCESS	M KALIEVA
MECHANICAL / HVAC	
ELECTRICAL	G WEISZ
INSTRUMENTATION	G WEISZ
DESIGN LEAD/QC	J KOCH
PROJECT NUMBER	10076241



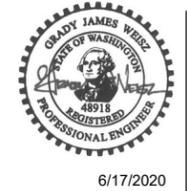
City of Pasco  
Lift Station Improvements

**ROAD 36 LIFT STATION ONE-LINE DIAGRAM**



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6/17/2020



City of Pasco  
Lift Station Improvements

**ROAD 36 LIFT STATION  
ELECTRICAL DETAILS**



FILENAME | E006.dwg  
SCALE | AS NOTED

SHEET  
**E006**