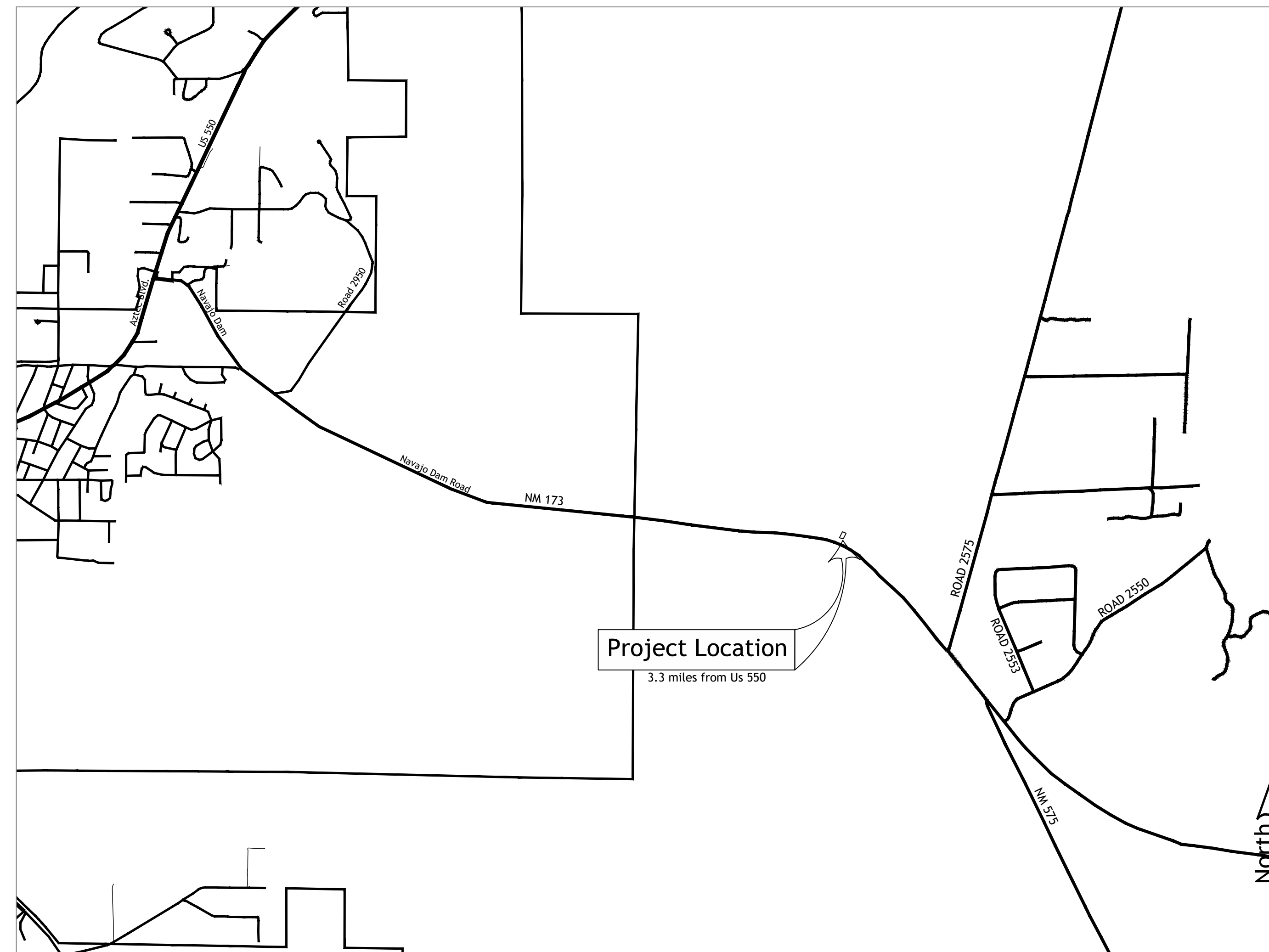
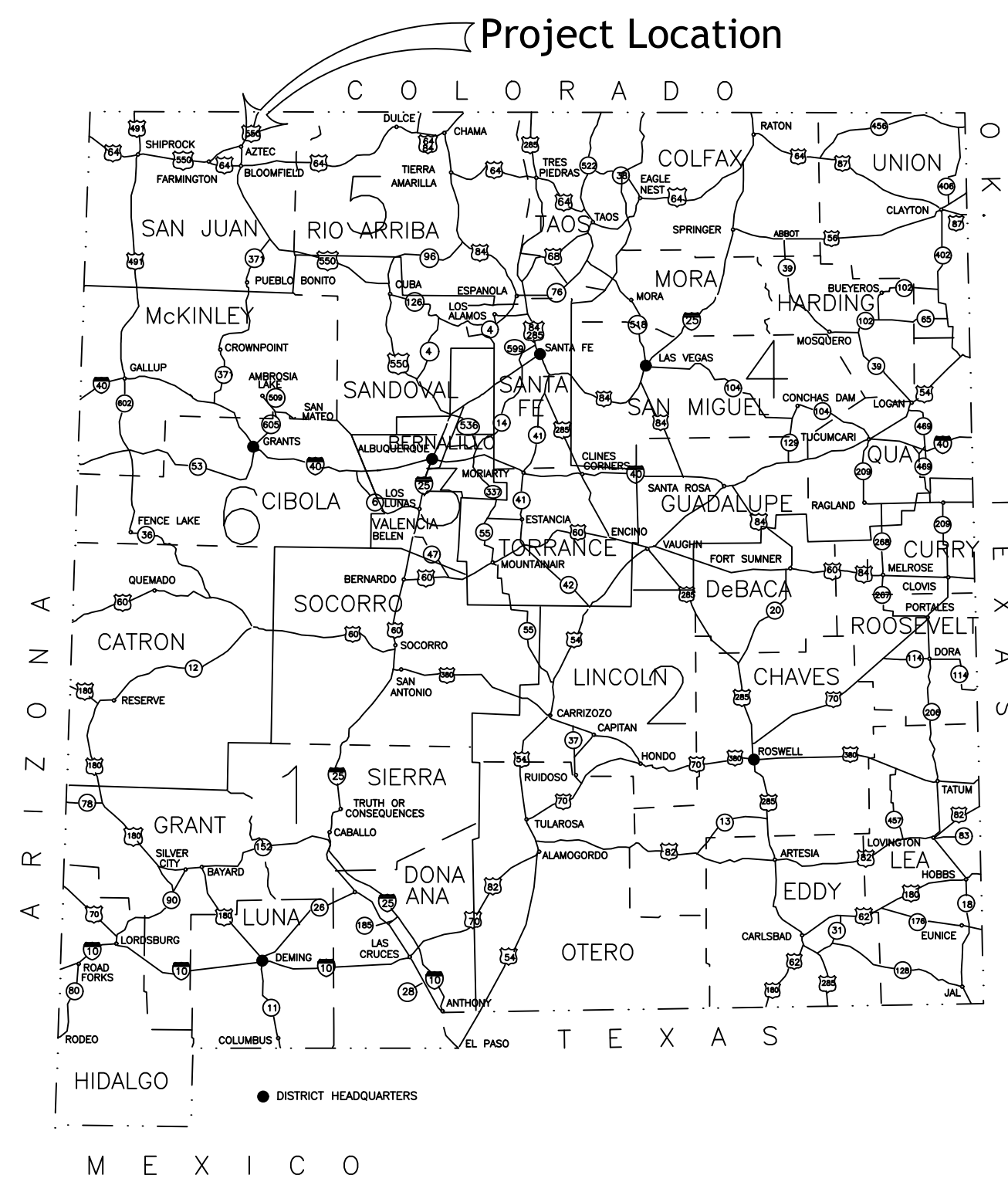


East Aztec Pump Station

City of Aztec, New Mexico

San Juan County



Vicinity Map
Scale: 1"= 2000'

Sheet List Table	
Sheet Number	Sheet Title
1-1	Cover Sheet
1-2	Overview
2-1	Site Plan
3-1	Pump House Piping - Plan View
3-2	Pump House Piping Layout - Section View
E000	Electric Sheet Title & Index
E001	Electric Power One Line 480VAC & 240VAC
E002	Electric Panel Schedules 480VAC & 240VAC
E003	Electric Motor Schematic 480VAC Pump P-100
E004	Electric Motor Schematic 480VAC Pump P-110
E005	Equipment Layout & Conduit Routing Plan
E006	Interior Elevation & Bill Of Materials
E007	Interior Elevation & Bill Of Materials
E008	Lighting & Power Plan
E009	Electric Conduit & Cable Schedule
E010	Pump House Grounding Plan
S1	Foundation & Roof Plans & Details
S2	General Structural Specs & Details

Know what's below.
Call before you dig.
It's the Law!

New Mexico One Call, Inc.
NMOC
Professional Resources for Damage Prevention

UTILITY OWNERS

CITY OF AZTEC DEPARTMENT OF PUBLIC WORKS
(505) 334-7660

CITY OF AZTEC ELECTRIC DEVELOPMENT
(505) 334-7660

QWEST (TELEPHONE)
(505) 325-2311

COMCAST CABLE
VICTOR APPLLEGATE 505-402-0055

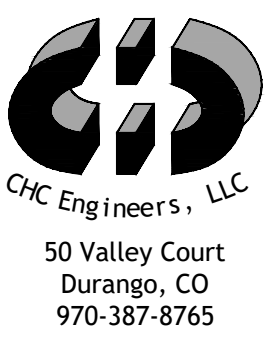
PNM (GAS)
505-324-3783

Revision Log

Owner:

Project:

Sheet Description:



Project Date:
12/18/19
Proj: 19003

12/18/2019 10:58 AM C:\Users\jphillips\OneDrive\Documents\19003 - East Aztec Pump Station\19003 - East Aztec Pump Station.dwg Plot Date: 12/18/2019 - 3:05pm



C:\Users\jason\OneDrive\Documents\19003_Upper East Pump Station\19003_Upper East Pump Station.dwg Date: 12/18/2019 10:56am

Revision Log	
1.	
2.	
3.	
4.	
5.	
6.	

Owner:
 City of Aztec

Project:
EAST AZTEC PUMP STATION

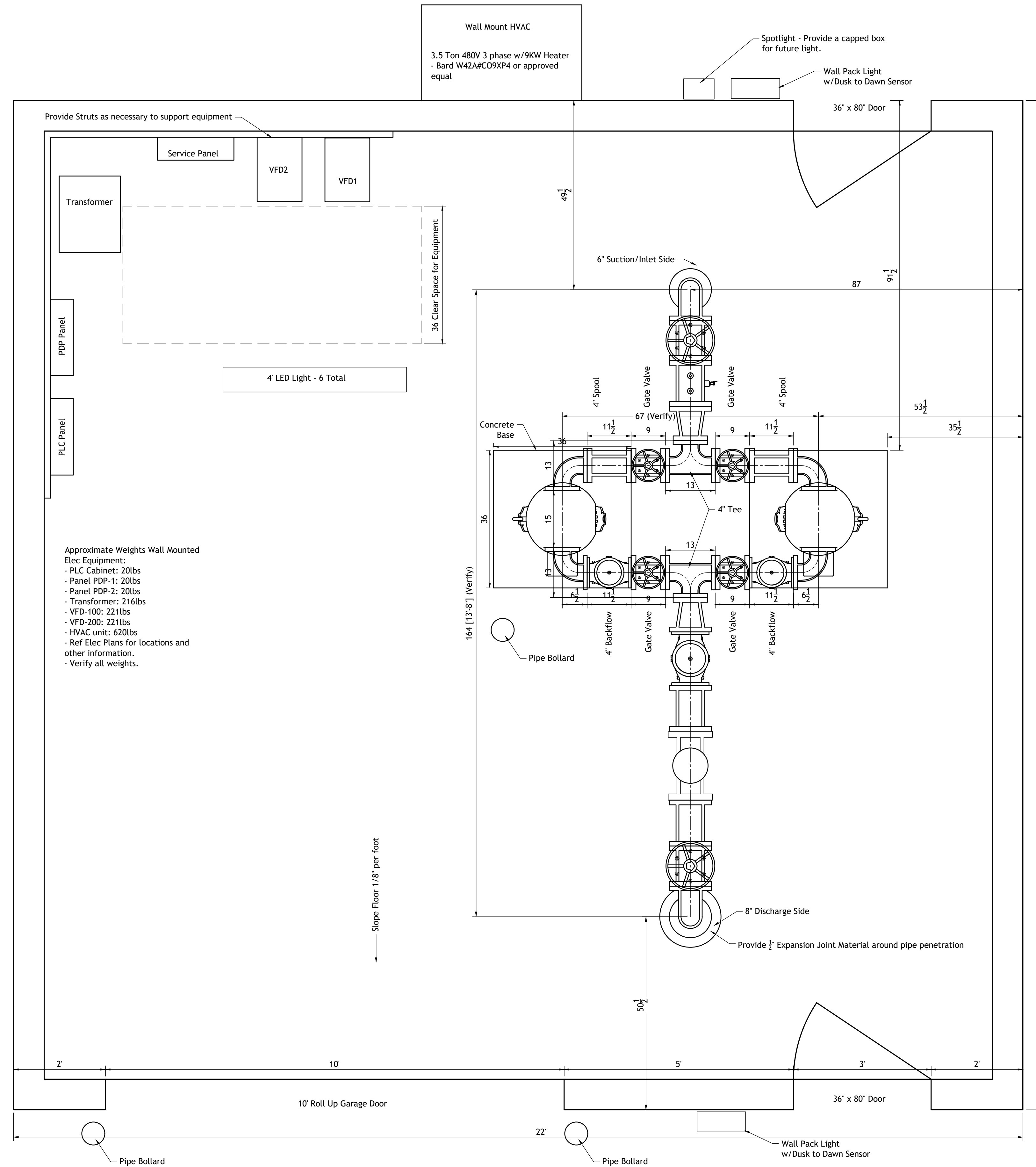
Sheet Description:
OVERVIEW



Project Date:
 12/18/19
 Proj: 19003

Plot Date: 12/18/2019 - 3:06pm

- Note:
- All Fittings shall be AWWA C110 PC 250 with Flanged Ends.
 - Provide 1" Threadollets welded to spools for gauges and testing ports with appropriate sized inserts.
 - All necessary fittings, bolts, gaskets, adjustments, etc. necessary for completion of the project not specifically called out are considered incidental to the project.
 - Spools called out as adjustable shall be FLxPE with Mega Flange to be field cut to length.



Approximate Weights Wall Mounted Elec Equipment:

- PLC Cabinet: 20lbs
- Panel PDP-1: 20lbs
- Panel PDP-2: 20lbs
- Transformer: 216lbs
- VFD-100: 221lbs
- VFD-200: 221lbs
- HVAC unit: 620lbs
- Ref Elec Plans for locations and other information.
- Verify all weights.

Pump House - Plan View
Scale: 3/4"=1'
North

Revision Log	REVISIONS, RPZA AIR INTAKE
1	9/20/17
2	9/26/17
3	PUMPHOUSE AS-BUILT
4	
5	
6	

Owner: City of Aztec

Project: EAST AZTEC PUMP STATION

Sheet Description: PUMP HOUSE PIPING - PLAN VIEW

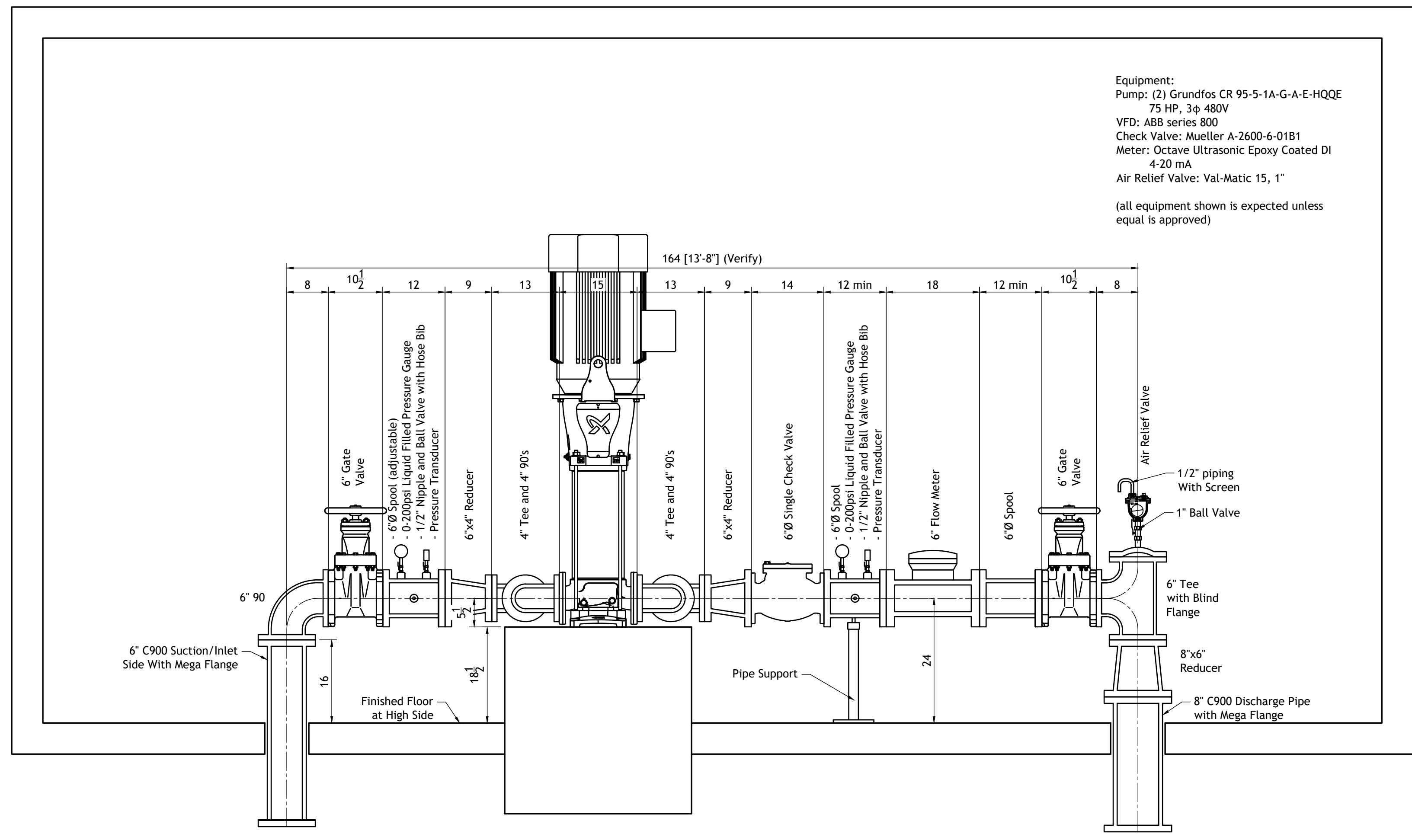
CHC Engineers, LLC
 50 Valley Court
 Durango, CO
 970-387-8765

Project Date: 12/18/19
Proj: 19003

Plot Date: 12/18/2019 - 3:06pm

3-1

Drawing Name: D:\CADD\Projects\19003 - Upper East Pump Station\04\Plan_Pump_House.dwg Date: 12/18/2019 10:30am



Equipment:
 Pump: (2) Grundfos CR 95-5-1A-G-A-E-HQQE
 75 HP, 3φ 480V
 VFD: ABB series 800
 Check Valve: Mueller A-2600-6-01B1
 Meter: Octave Ultrasonic Epoxy Coated DI
 4-20 mA
 Air Relief Valve: Val-Matic 15, 1"
 (all equipment shown is expected unless
 equal is approved)

Pump House - Section
 Scale: 3/4"=1'

- Note:**
- All fittings shall be AWWA C110 PC 250 with Flanged Ends.
 - Provide 1" Threadlets welded to spools for gauges and testing ports with appropriate sized inserts.
 - All necessary fittings, bolts, gaskets, adjustments, etc. necessary for completion of the project not specifically called out are considered incidental to the project.
 - Spools called out as adjustable shall be FLxPE with Mega Flange to be field cut to length.

Revision Log	REVISIONS, RPZA AIR INTAKE
1	9/20/17
2	9/26/17
3	
4	
5	
6	

PUMPHOUSE AS-BUILT
 Plot Date: 12/18/2019 - 3:06pm

Owner:
 City of Aztec

Project:
EAST AZTEC PUMP STATION

Sheet Description:
PUMP HOUSE PIPING LAYOUT - SECTION VIEW



Project Date:
 12/18/19
 Proj: 19003

CITY OF AZTEC UPPER EAST TANK PUMP HOUSE ELECTRICAL DESIGN DRAWING PACKAGE

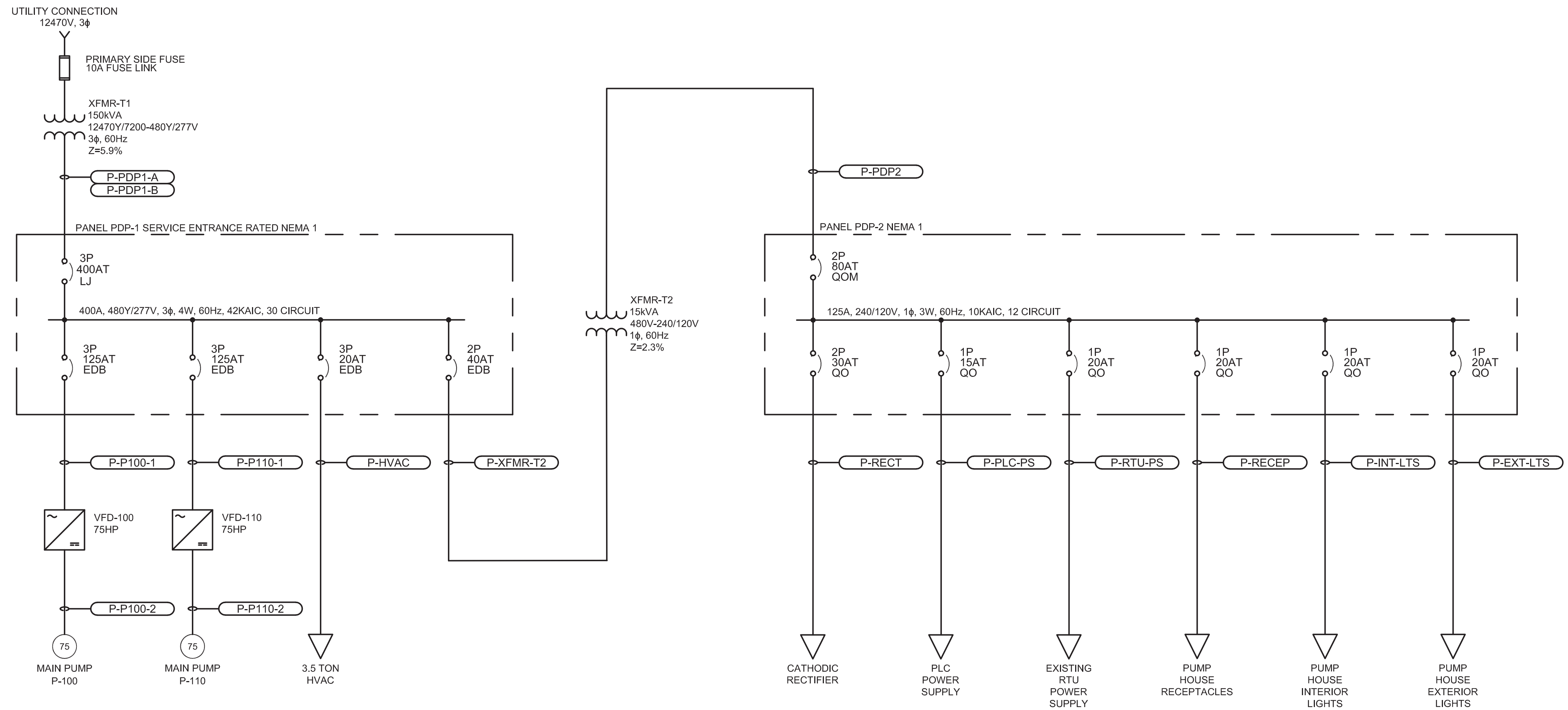
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DRAWING NUMBER	REV	DATE	DESCRIPTION	
1800067-E000	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	SHEET TITLE & INDEX
1800067-E001	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC POWER ONE LINE 480VAC & 240VAC
1800067-E002	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC PANEL SCHEDULES 480VAC & 240VAC
1800067-E003	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC MOTOR SCHEMATIC 480VAC PUMP P-100
1800067-E004	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC MOTOR SCHEMATIC 480VAC PUMP P-110
1800067-E005	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	EQUIPMENT LAYOUT & CONDUIT ROUTING PLAN
1800067-E006	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	INTERIOR ELEVATION & BILL OF MATERIALS
1800067-E007	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	INTERIOR ELEVATION & BILL OF MATERIALS
1800067-E008	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	LIGHTING & POWER PLAN
1800067-E009	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC CONDUIT & CABLE SCHEDULE
1800067-E010	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC GROUNDING PLAN

						DESIGNED BY: CRF
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						APPROVED BY: ---
						CLIENT APPROVAL: ---
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NO	DATE	REVISION	BY	CK.	APPR.	

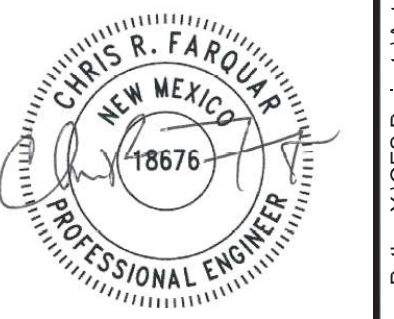


AZTEC UPPER EAST TANK
PUMP HOUSE
SHEET TITLE & INDEX

JOB NO. 18000-67	SCALE
FILENAME 1800067-E000	NTS
DWG. NO. 1800067-E000	REV. NO. 0



NOTES:
1.



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APPROVED BY:	---				
CLIENT APPROVAL:	---				
NO	DATE	REVISION	BY	CK.	APPR.
0	11/7/2019	ISSUED FOR CONSTRUCTION	CRF	CRF	



AZTEC UPPER EAST TANK
PUMP HOUSE
ELECTRIC POWER ONE LINE
480VAC & 240VAC

JOB NO.	18000-67	SCALE	NTS
FILENAME	1800067-E001	DWG. NO.	1800067-E001
REV. NO.	0		

Nov 07, 2019 - 2:03pm by cfarquar - Path = Y:\CES Projects\Aztec Pump Station\CAD Files\1800067-E001.dwg

PANEL PDP-1														400 AMP BUS			480 / 277 VOLTS			SURFACE MOUNTED		
LOCATION PUMP HOUSE														400 AMP MAIN			3 / 4 PH / WIRE			42,000 A BRACING		
EQUIPMENT DESCRIPTION	PH A (VA)	PH B (VA)	PH C (VA)	TYPE *	COUNT	BREAKER	POLES	CIR #	CIR #	POLES	BREAKER	COUNT	TYPE *	PH A (VA)	PH B (VA)	PH C (VA)	EQUIPMENT DESCRIPTION					
BOTTOM FEED THRU POSITION MAIN BRKR					1	400	3	FT	FT								BLANK TOP FEED THRU POSITION					
75 HP WATER PUMP P-100	26,592	26,592		M1	1	125	3	1	2	3	20	1	M	4,432			3.5 TON HVAC					
			26,592	M1	1	125	3	3	4	3	20	1	M		4,432							
75 HP WATER PUMP P-110	26,592			M	1	125	3	7	8								BLANK					
		26,592		M	1	125	3	9	10													
15 KVA XFMR T-2	4,040			L	1	40	2	13	14								BLANK					
BLANK		3,020		L	1	40	2	15	16													
BLANK								17	18													
BLANK								19	20								BLANK					
BLANK								21	22													
BLANK								23	24													
BLANK								25	26								BLANK					
BLANK								27	28													
BLANK								29	30													

* LOAD TYPE	CODE	DEMAND	PH A	PH B	PH C
LONG CONTINUOUS LOAD	L	100%	4,040	3,020	0
RECEPTACLES	R	100%	0	0	0
MISC	O	100%	0	0	0
LARGEST MOTOR	M1	100%	26,592	26,592	26,592
MOTORS	M	100%	31,024	31,024	31,024
STANDBY	S	0%	0	0	0
HEATERS	H	100%	0	0	0
KITCHEN	K	100%	0	0	0
TOTAL LOAD PER PHASE			61,656	60,636	57,616

NEUTRAL BUS: 100%	GROUND BUS: 50%	ISO. GROUND BUS: NONE	FEEDER SOURCE:
TOTAL LOAD: 179.9 KVA	TOTAL LOAD: 217 AMPS		

PANEL: PDP-1

PANEL PDP-2														125 AMP BUS			240 / 120 VOLTS			SURFACE MOUNTED		
LOCATION PUMP HOUSE														80 AMP MAIN			1 / 3 PH / WIRE			10,000 A BRACING		
EQUIPMENT DESCRIPTION	PH A (VA)	PH B (VA)	PH C (VA)	TYPE *	COUNT	BREAKER	POLES	CIR #	CIR #	POLES	BREAKER	COUNT	TYPE *	PH A (VA)	PH B (VA)	PH C (VA)	EQUIPMENT DESCRIPTION					
CATHODIC RECTIFIER	1,920			L	1	30	2	1	2	1	30	1	L	600			P/H EXTERIOR LIGHTS					
P/H RECEPTACLES	1,200			R	1	20	1	5	6	1	20	1	L	800			P/H INTERIOR LIGHTS					
EXISTING RTU P/S		800		L	1	20	1	7	8								PLC POWER SUPPLY					
BLANK								9	10								BLANK					
BLANK								11	12								BLANK					

* LOAD TYPE	CODE	DEMAND	PH A	PH B
LONG CONTINUOUS LOAD	L	100%	3,320	3,020
RECEPTACLES	R	60%	720	0
MISC	O	100%	0	0
AIR HANDLING EQUIP	M1	80%	0	0
MOTORS	M	100%	0	0
STANDBY	S	0%	0	0
HEATERS	H	100%	0	0
KITCHEN	K	100%	0	0
TOTAL LOAD PER PHASE			4,040	3,020

NEUTRAL BUS: 100%	GROUND BUS: 50%	ISO. GROUND BUS: NONE	FEEDER SOURCE:
TOTAL LOAD: 7.1 KVA	TOTAL LOAD: 29 AMPS		

PANEL: PDP-2

NOTES:
1.

DESIGNED BY: CRF	
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CLIENT APPROVAL: ---	
0 11/7/2019 ISSUED FOR CONSTRUCTION	CRF CRF
NO DATE REVISION	BY CK. APPR.

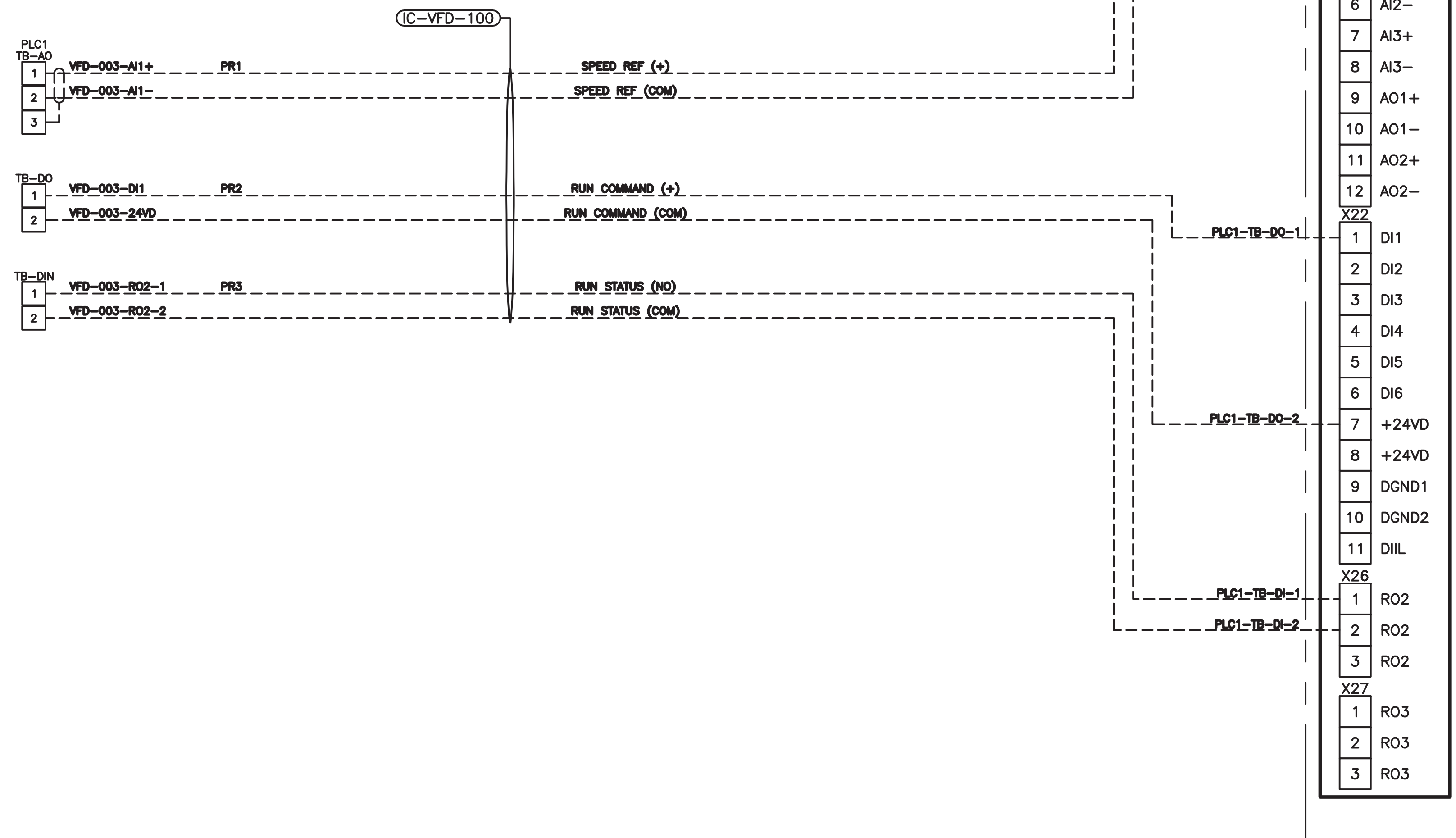
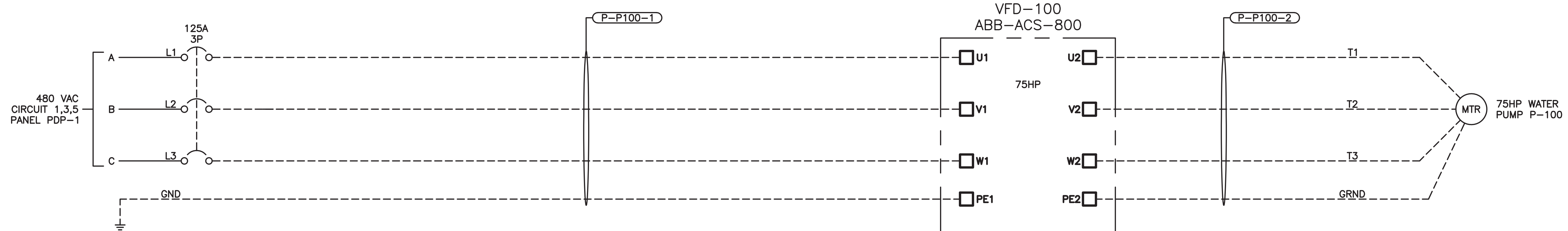


AZTEC UPPER EAST TANK
PUMP HOUSE
ELECTRIC PANEL SCHEDULES
480VAC & 240VAC

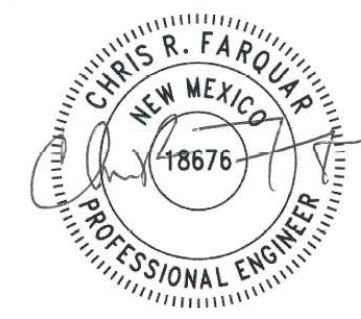
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DWG. NO. 1800067-E002	REV. NO. 0



11/7/2019



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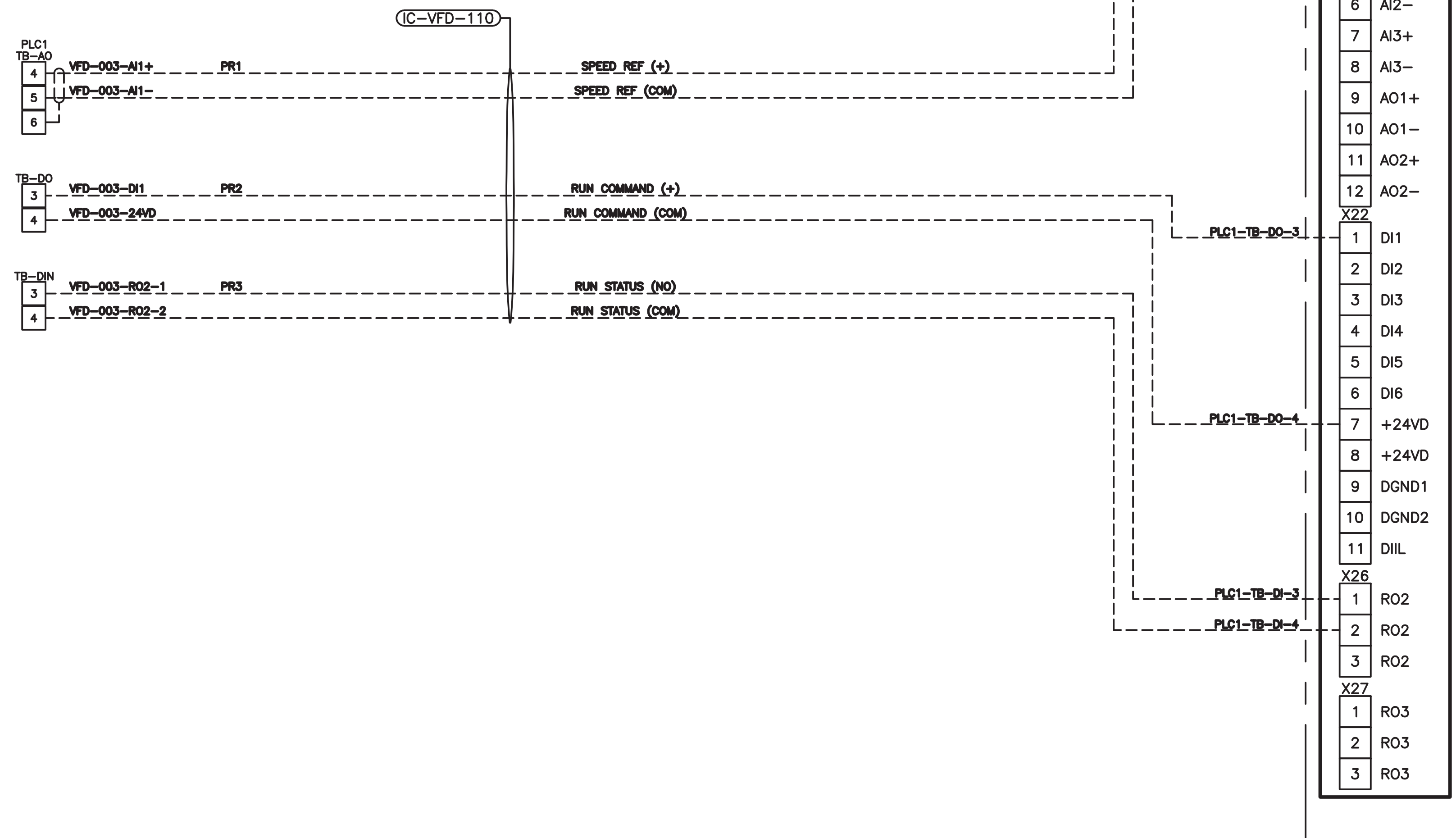
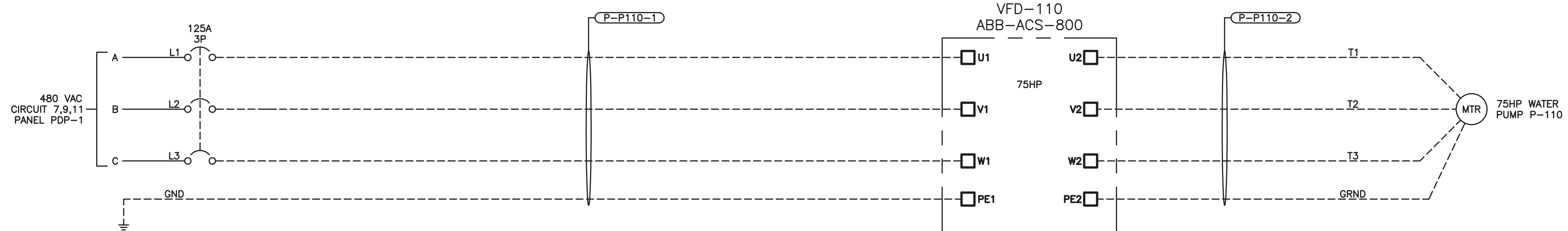
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CLIENT APPROVAL:	---				
NO	DATE	REVISION	BY	CK.	APPR.
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AZTEC UPPER EAST TANK
PUMP HOUSE
ELECTRIC MOTOR SCHEMATIC
480VAC PUMP P-100

JOB NO.	18000-67	SCALE	NTS
FILENAME	1800067-E003	DWG. NO.	1800067-E003
REV. NO.	0		



NOTES:
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AZTEC UPPER EAST TANK
PUMP HOUSE
ELECTRIC MOTOR SCHEMATIC
480VAC PUMP P-110

JOB NO.	18000-67	SCALE	NTS
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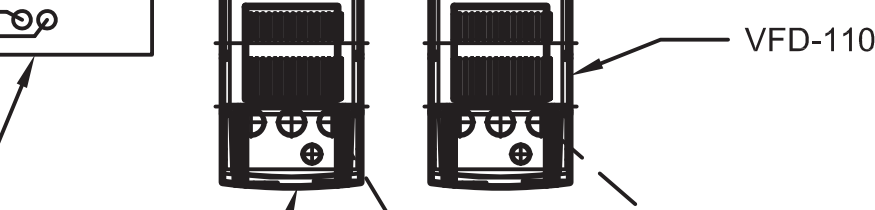
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N



TO ELECTRIC SERVICE
TRANSFORMER XFMR T-1

P-PDP1-A
P-PDP1-B



PANEL PDP-1
VFD-100

P-P100-2

P-P110-2

DISCHARGE PRESSURE
TRANSMITTER PIT-100

TO EXISTING RTU

P-RTU-PS
IC-RTU
COMM-RTU

PLC CABINET

I-PIT-100

PUMP MOTOR
P-110

PUMP MOTOR
P-100

ALL CONDUITS SHOWN ON THIS PAGE ARE BELOW GRADE.
INSTALL PVC CONDUIT FOR ALL HORIZONTAL UG
SECTIONS. FOR THE SCHEDULE 40 CONDUITS INDICATED
PROVIDE A RIGID METALLIC 90° BEND AT THE STUB UPS
AND A RIGID METALLIC RISER. WRAP ALL BELOW GRADE
STEEL WITH APPROVED CORROSION SHIELD EXTENDING
TO 6" ABOVE GRADE. SERVICE ENTRANCE CONDUITS ARE
SCH 80 PVC INCLUDING RISERS.



11/7/2019

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AZTEC UPPER EAST TANK
PUMP HOUSE TOP VIEW
EQUIPMENT LAYOUT AND
CONDUIT/CABLE ROUTING PLAN

JOB NO.	18000:67	SCALE	1"=1'-0"
FILENAME	1800067-E005	DWG. NO.	1800067-E005
REV. NO.	0		

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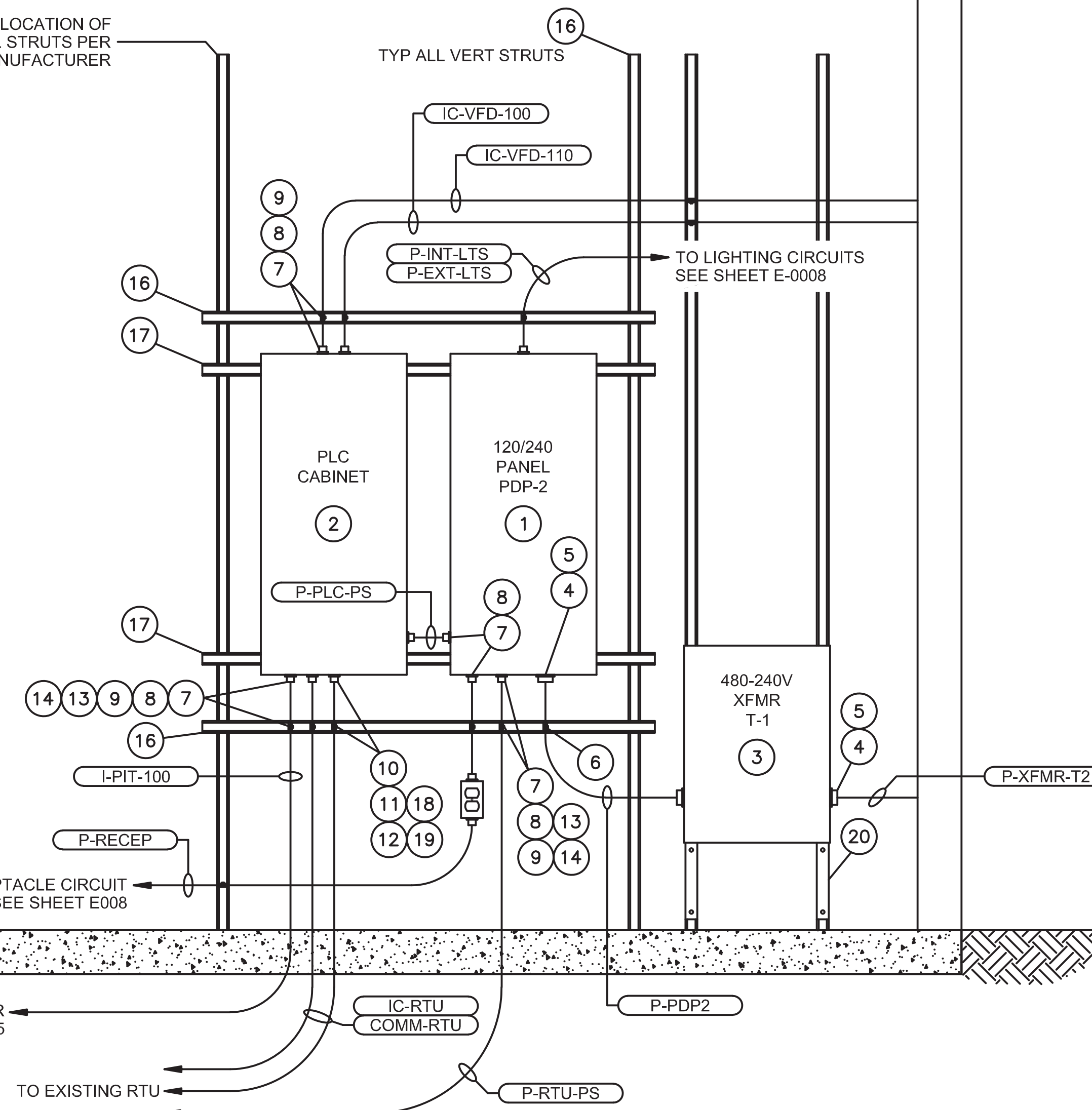
ANSI D, 22 x 34 R.

BILL OF MATERIAL				
NO.	QTY.	DESCRIPTION	MANUFACTURER	PART NUMBER
1	1	125A, 1Ø 3W 240V 3Ø SPACE PANELBOARD	SQUARE D	QO112L125G
2	1	VENDOR SUPPLIED PLC CABINET (SUPPLIED BY OTHERS)		
3	1	15KVA, 240/480 X 120/240VAC, DRY TYPE TRANSFORMER	SQUARE D	EE15S3H
4	10 FT	1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)		
5	3	1" LFMC INSULATED THROAT CONNECTOR		
6	1	1" LFMC STRUT STRAP		
7	A/R	3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)		
8	10*	3/4" RMC INSULATED THROAT CONDUIT HUB		
9	8*	3/4" RMC STRUT STRAP		
10	A/R	1" GALVANIZED RIGID METALLIC CONDUIT (RMC)		
11	2	1" RMC INSULATED THROAT CONDUIT HUB		
12	2	1" UNI-STRUT STRAP		
13	A/R	3/4" SCHEDULE 40 PVC CONDUIT		
14	2	3/4" PVC FEMALE ADAPTOR		
15	2	1" UNI-STRUT STRAP		
16	A/R	1-5/8" X 1-5/8" GALVANIZED STRUT		
17	A/R	1-5/8" X 7/8" GALVANIZED STRUT		
18	2	1" SCHEDULE 40 PVC CONDUIT		
19	2	1" PVC FEMALE ADAPTOR		
20	2	TRANSFORMER WALL MOUNT BRACKET	SQUARE D	WMB361362

* NOT ALL POWER AND LIGHT CONDUIT IS SHOWN. CONNECTOR AND STRAP QUANTITIES WILL VARY.

WEST INTERIOR ELEVATION

QUANTITY AND LOCATION OF VERTICAL STRUTS PER BUILDING MANUFACTURER



11/7/2019

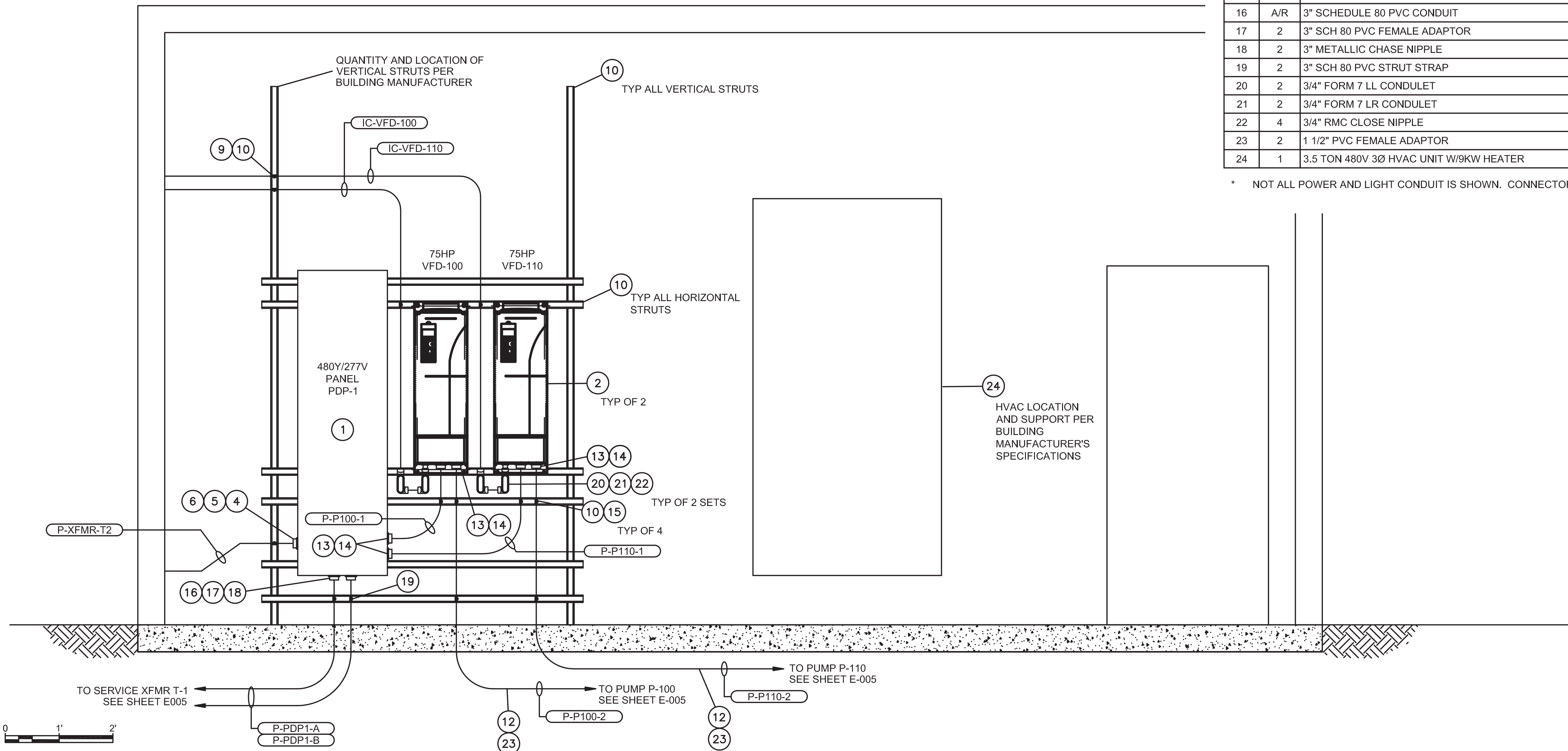
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APPROVED BY:	---				
CLIENT APPROVAL:	---				
0	11/7/2019	ISSUED FOR CONSTRUCTION	BWH	CRF	
NO	DATE	REVISION	BY	CK.	APPR.



AZTEC UPPER EAST TANK
PUMP HOUSE INTERIOR
ELEVATION AND EQUIPMENT
BILL OF MATERIALS

JOB NO.	1800067	SCALE	1"=1'-0"
FILENAME	1800067-E006	REV. NO.	0
DWG. NO.	1800067-E006		

NORTH INTERIOR ELEVATION



BILL OF MATERIAL				
NO.	QTY.	DESCRIPTION	MANUFACTURER	PART NUMBER
1	1	400A, 3Ø, 4W, 480Y/277V, 30 SPACE PANELBOARD	SQUARE D	NF MB 400A
2	2	75HP, 480V, 3Ø, ACTIVE FRONT END VFD	ABB	ACS800-U31-0100
3	N/A	NOT USED		
4	N/A	1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)		
5	1	1" LFMC INSULATED THROAT CONNECTOR		
6	1	1" LFMC STRUT STRAP		
7	A/R	3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)		
8	N/A	3/4" RMC INSULATED THROAT CONDUIT HUB		
9	6*	3/4" RMC STRUT STRAP		
10	A/R	1-5/8" X 1-5/8" GALVANIZED STRUT		
11	A/R	1-5/8" X 7/8" GALVANIZED STRUT		
12	A/R	1-1/2" SCHEDULE 40 PCV CONDUIT		
13	A/R	1-1/2" GALVANIZED RIGID METALLIC CONDUIT (RMC)		
14	6	1-1/2" RMC INSULATED THROAT CONDUIT HUB		
15	6	1-1/2" RMC STRUT STRAP		
16	A/R	3" SCHEDULE 80 PVC CONDUIT		
17	2	3" SCH 80 PVC FEMALE ADAPTOR		
18	2	3" METALLIC CHASE NIPPLE		
19	2	3" SCH 80 PVC STRUT STRAP		
20	2	3/4" FORM 7 LL CONDULET		
21	2	3/4" FORM 7 LR CONDULET		
22	4	3/4" RMC CLOSE NIPPLE		
23	2	1 1/2" PVC FEMALE ADAPTOR		
24	1	3.5 TON 480V 3Ø HVAC UNIT W/9KW HEATER	BARD	W42A#CO9XP4

* NOT ALL POWER AND LIGHT CONDUIT IS SHOWN. CONNECTOR AND STRAP QUANTITIES WILL VARY.

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CLIENT APPROVAL:	---				
NO.	DATE	REVISION	BY	CK.	APPR.
0	11/7/2019	ISSUED FOR CONSTRUCTION	BWH	CRF	

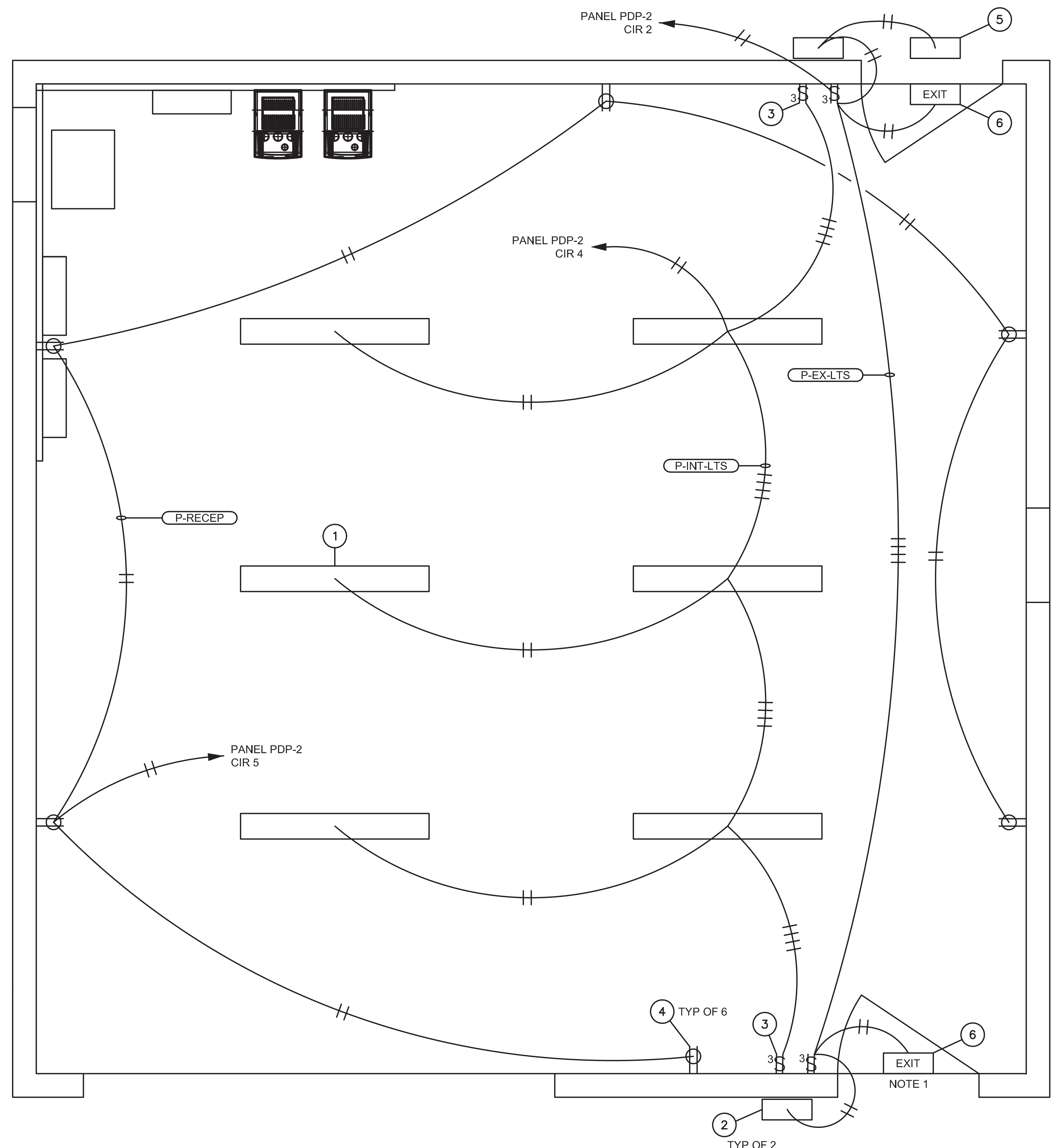


AZTEC UPPER EAST TANK
PUMP HOUSE INTERIOR
ELEVATION AND EQUIPMENT
BILL OF MATERIALS

JOB NO.	1800067	SCALE	1"=1'-0"
FILENAME	1800067-E007	REV. NO.	0
DWG. NO.	1800067-E007		



11/7/2019



... BILL OF MATERIAL

NO.	QTY.	DESCRIPTION	MANUFACTURER	PART NUMBER
1	6	38W MULTI-VOLTAGE VAPOR TIGHT 4' LED SURFACE MT	EATON	4VT2-LD4-4-DR-UNV-840-CD1-WL-U
2	2	76W MULTI-VOLTAGE WALL PACK	EATON	WPMLD
3	2	2-GANG SWITCH BOX W/2-3WAY SWITCHES & IND COVER		
4	6	1-GANG SWITCH BOX W/1-DUPLEX RECEPTACLE & IND COVER		
5	1	WALL MOUNT 120V SPOT LIGHT PER OWNERS SPECIFICATION		
6	2	WALL MOUNT COMBO EMERGENCY/EXIT LIGHT	EATON	RCS182LED

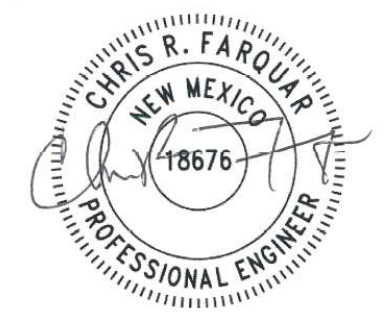
NOTES:
 1. EXIT/EMERGENCY LIGHTS ARE SUPPLIED BY EXTERIOR LIGHT CIRCUIT WITH NO SWITCHING. TAP FEED CIRCUIT AT SWITCH BOX.

DESIGNED BY:	CRF				
CHECKED BY:	CRF				
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NO	DATE	REVISION	BY	CK.	APPR.
0	11/7/2019	ISSUED FOR CONSTRUCTION	BWH	CRF	



AZTEC UPPER EAST TANK
 PUMP HOUSE
 LIGHTING & POWER PLAN

JOB NO.	18000:67	SCALE	1"=1'-0"
FILENAME	1800067-E008	DWG. NO.	1800067-E008
REV. NO.	0		



Nov 11, 2019 - 11:05am by chrquar - Path = Y:\OES Projects\Aztec Pump Station\CAD Files\1800067-E008.dwg

ELECTRICAL CONDUIT AND CABLE SCHEDULE						
CABLE #	CONDUIT	SIZE & NUMBERS OF CONDUCTORS	INSULATION	VOLTAGE RATING	FROM	TO
P-PDP1-A	3" SCH 80 PVC	3-1C #3/0 & 1-1C #1/0 GC	XHHW-2	600	150KVA TRANSFORMER XFMR-T1	480 VOLT PANEL PD-1 MAIN CB
P-PDP1-B	3" SCH 80 PVC	3-1C #3/0 & 1-1C #1/0 GC	XHHW-2	600	150KVA TRANSFORMER XFMR-T1	480 VOLT PANEL PD-1 MAIN CB
P-P100-1	1-1/2" RMC	3-1C #1 & 1-1C #6 EGC	THHN	600	480 VOLT PANEL PD-1	75HP WATER PUMP VFD VFD-100
P-P100-2	1-1/2" RMC/SCH 40 PVC	3-1C #1 & 1-1C #6 EGC	THHN	600	75HP WATER PUMP VFD VFD-100	75HP WATER PUMP MOTOR P-100
P-P110-1	1-1/2" RMC	3-1C #1 & 1-1C #6 EGC	THHN	600	480 VOLT PANEL PD-1	75HP WATER PUMP VFD VFD-110
P-P110-2	1-1/2" RMC/SCH 40 PVC	3-1C #1 & 1-1C #6 EGC	THHN	600	75HP WATER PUMP VFD VFD-110	75HP WATER PUMP MOTOR P-110
P-HVAC	3/4" RMC	3-1C #10 & 1-1C #10 EGC	THHN	600	480 VOLT PANEL PD-1	3.5 TON HVAC UNIT #1
P-XFMR-T2	1" RMC/LFMC	2-1C #8 & 1-1C #10 EGC	THHN	600	480 VOLT PANEL PD-1	15KVA TRANSFORMER XFMR-T2
P-PDP2	1" RMC/LFMC	2-1C #4, 1C-#4 GC & 1-1C #8 EGC	THHN	600	15KVA TRANSFORMER XFMR-T2	240/120V PANEL PD-2
P-RECT	3/4" RMC	2-1C #10 & 1-1C #10 EGC	THHN	600	240/120V PANEL PD-2	CATHODIC RECTIFIER
P-PLC-PS	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PLC POWER SUPPLY
P-RTU-PS	3/4" RMC/SCH 40 PVC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	EXISTING RTU CABINET
P-RECEP	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PUMP HOUSE RECEPTACLES
P-INT-LTS	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PUMP HOUSE INTERIOR LIGHTS
P-EXT-LTS	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PUMP HOUSE EXTERIOR LIGHTS

CONTROLS CONDUIT AND CABLE SCHEDULE						
CABLE #	CONDUIT	SIZE & NUMBERS OF CONDUCTORS	INSULATION	VOLTAGE RATING	FROM	TO
I-PIT-100	3/4" RMC/SCH 40 PVC	1-4C #18 CABLE W/OS	TC-TFN	600	PLC CABINET	DISCHARGE PRESSURE TRANSDUCER P-100
IC-VFD-100	3/4" RMC	1-4PR #18 CABLE W IS-OS	TC-TFN	600	PLC CABINET	WATER PUMP P-100 DRIVE VFD-100
IC-VFD-110	3/4" RMC	1-4PR #18 CABLE W IS-OS	TC-TFN	600	PLC CABINET	WATER PUMP P-100 DRIVE VFD-110
IC-RTU	1" RMC/SCH 40 PVC	2-1PR #16 OS & 5-1C #16	TC-ITC/THWN	600	PLC CABINET	EXISTING RTU CABINET
COMM-RTU	1" RMC/SCH 40 PVC	1-4PR #22 CAT 5 OUTDOOR RATED	CAT 5	300	PLC CABINET	EXISTING RTU CABINET

NOTES:

- GC = GROUNDED CONDUCTOR (NEUTRAL), EGC = EQUIPMENT GROUNDING CONDUCTOR



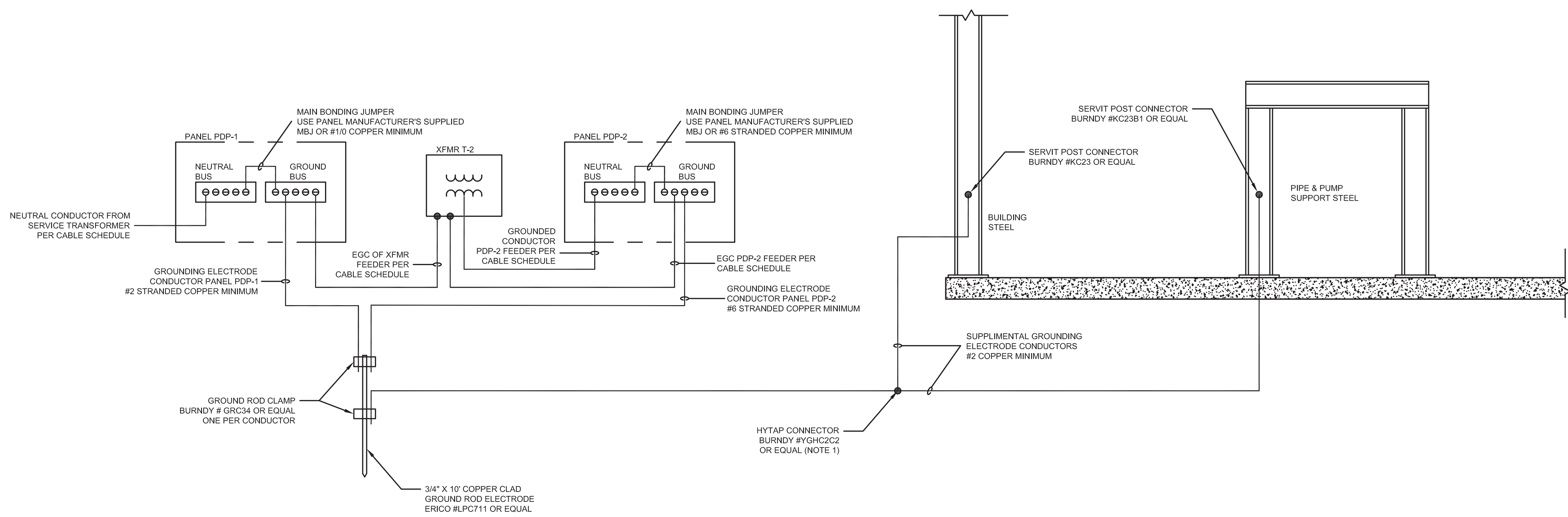
11/7/2019

DESIGNED BY:	CRF				
CHECKED BY:	CRF				
APPROVED BY:	---				
CLIENT APPROVAL:	---				
0	11/7/2019	ISSUED FOR CONSTRUCTION	CRF	CRF	
NO	DATE	REVISION	BY	CK.	APPR.



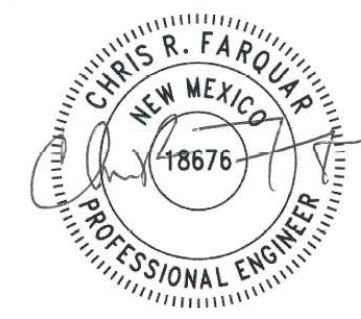
AZTEC UPPER EAST TANK
PUMP HOUSE
ELECTRIC CONDUIT & CABLE
SCHEDULE

JOB NO.	18000-67	SCALE	NTS
FILENAME	1800067-E009	REV. NO.	0
DWG. NO.	1800067-E009		



NOTES:

1. USE BURNDY #K2C23 AT BUILDING STEEL AS ALTERNATE AND AVOID SPLICING A TAP.



11/7/2019

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AZTEC UPPER EAST TANK
PUMP HOUSE
GROUNDING PLAN

JOB NO.	18000-67	SCALE	NTS
FILENAME	1800067-E010	DWG. NO.	1800067-E010
REV. NO.	0		

Nov 08, 2019 - 2:29pm by cfarquar - Path = Y:\CES Projects\Aztec Pump Station\CAD Files\1800067-E010.dwg