

120/208V/3Ø/4W+GRD 50 AMP BKR, WALL MTD 42,000 AIC LABELED										
MINI-POWER ZONE L INTEGRAL PANEL/TRANSFORMER										
CIRC. NO.	LOAD V.A.	LOAD DESCRIPTION	POLE	AMP SIZE	PHASE	AMP SIZE	PHASE	LOAD DESCRIPTION	LOAD V.A.	CIRC. NO.
1	140	PUMP LIGHTG	1	20	A	20	1	INT. RECEPT.	200	2
3	300	EXT. LIGHTING	1	20	B	20	1	BATTERY CHRGR	1000	4
5	200	EXT. RECEPT.	1	20	C	15	2	JACKET HTR	1500	6
7	60	EF-1	1	20	A	-	-			8
9		SPARE	1	25	B	15	2	COOLANT HTR	1500	10
11		SPARE	1	20	C	-	-			12
13		SPACE			A	20	1	SPARE		14
15		SPACE			B			SPACE		16
17		SPACE			C			SPACE		18

- ① 15 KVA MINI-POWER ZONE COMBINATION PANEL/ TRANSFORMER, 480V. PRIMARY WITH 120/208V, 3-PHASE, 4-WIRE SECONDARY. 18 POLE PANEL.
- ② VERIFY CIRCUITING REQUIREMENTS WITH GENERATOR PROVIDED PRIOR TO ORDERING PANEL AND BREAKERS.

277/480V/3Ø/4W+GRD 225 AMP M.L.O, SURFACE MTD. 42,000 AIC LABELED										
PANEL H W/ GRD. BUS										
CIRC. NO.	LOAD V.A.	LOAD DESCRIPTION	POLE	AMP SIZE	PHASE	AMP SIZE	PHASE	LOAD DESCRIPTION	LOAD V.A.	CIRC. NO.
1	15,000	MINI ZONE L	3	25	A	60	3	CP-1	43600	2
3					B					4
5					C					6
7		SPARE	1	20	A	20	3	UH-1	3300	8
9		SPARE	1	20	B					10
11		SPARE	1	20	C					12
13		SPACE			A	20	1	SPARE		14
15		SPACE			B			SPACE		16
17		SPACE			C			SPACE		18

LIGHT FIXTURE SCHEDULE									
FIXT LTR	MANUFACTURER	CATALOG NUMBER	LAMPS		FIXT. VOLT.	FINISH	MOUNTING	REMARKS	ICE
			NO	TYPE					
A	WILLIAMS	96-4-L62-HIAFR-DRV-UNV	--	LED	UNV	WHITE	SURFACE	ENCLOSED AND GASKETED.	
B	WILLIAMS	WPI-L44/850-PG-WG-120	--	LED	120	STANDARD	WALL	(1)(2)	

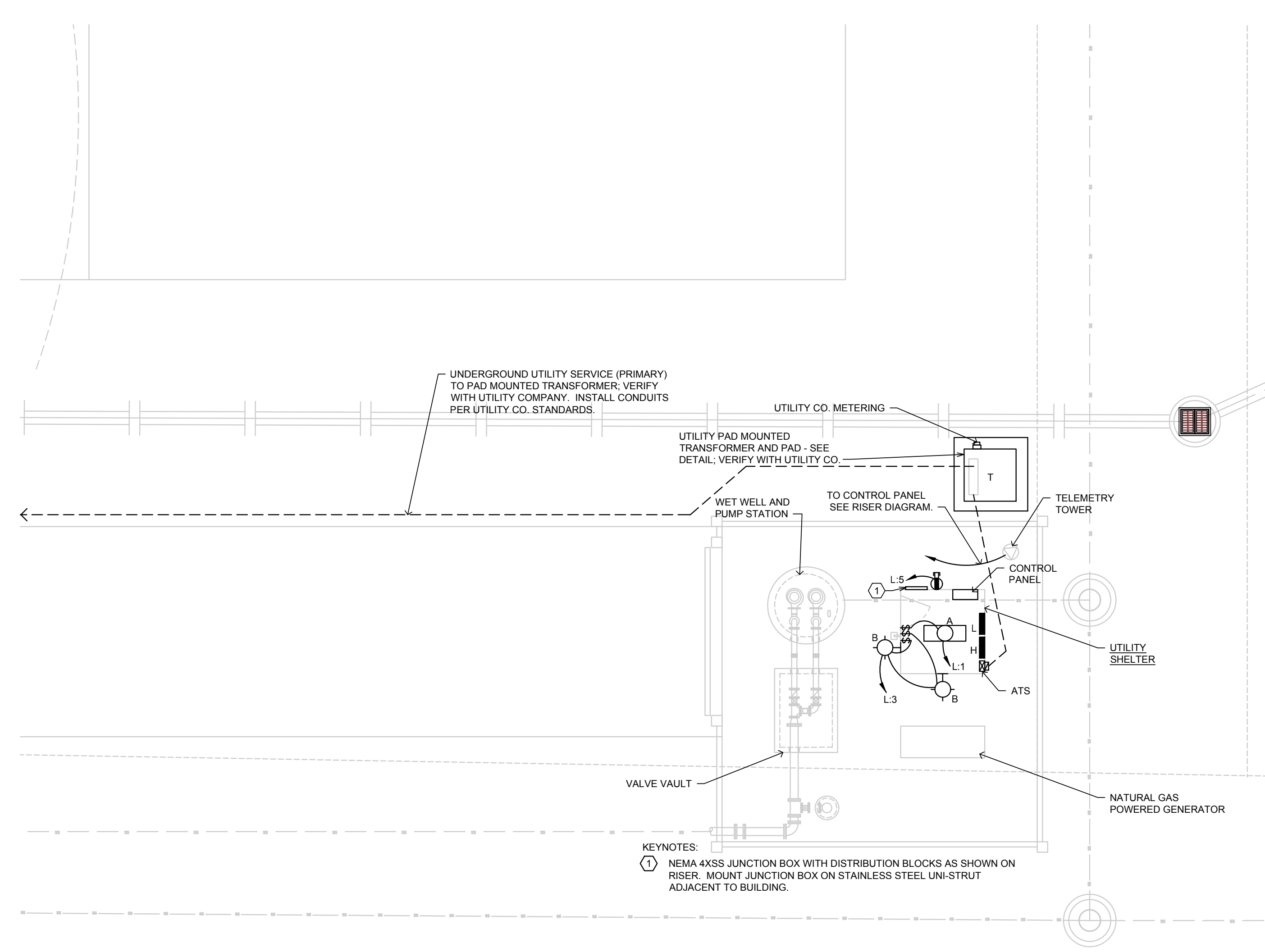
- ### LIGHT FIXTURE SCHEDULE NOTES
- ① PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL.
 - ② MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.

EQUIPMENT CONNECTION SCHEDULE										SCH. CODE					
UNIT DESIG.	LOAD	PANEL DEVICE RATING (AMPS/POLE)								DISC. DEVICE AT UNIT (AMPS/POLE)	STARTER (SIZE/POLE)	CIRC. NO.	FEEDER IDENT.		
		H.P.	FLA	MCA	20/1	25/3	30/3	35/3	40/3					45/3	50/3
CP-1	DUPLX CONTROL PANEL														
1		(2) 15	42	53							SW			H-2	3#4& 1#8GRD-1 1/4" C
P-1	PUMP														
1		15	21	27							SW	VFD		CP-1	3#10& 1#10GRD-1" C
2		15	21	27							SW	VFD		CP-1	3#10& 1#10GRD-1" C
EF-1	EXHAUST FAN														
1		60W												L-7	2#12& 1#12GRD-1/2" C
UH-1	UNIT HEATER														
1		3.3KW	4								SW			H-8	3#12& 1#12GRD-3/4" C

- ### EQUIPMENT CONNECTION SCHEDULE NOTES
- ① ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.
 - ② REFER TO DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.
 - ③ NOT USED.
 - ④ PROVIDE A 30A, 1 POLE, 125V, HORSEPOWER RATED TOGGLE SWITCH WITH A 125V, 3/4 HP RATED FUSTAT (EQUAL TO BUSSMAN #SOY), SIZE FUSE PER MANUFACTURER'S RECOMMENDATION.
 - ⑤ STARTER AND POWER FACTOR CORRECTION CAPACITORS SHALL BE PROVIDED AS PART OF CP-1. CONTRACTOR TO PROVIDE WIRING FROM CP-1 TO DISTRIBUTION BLOCKS IN JUNCTION BOX LOCATED OUTSIDE BUILDING AND CONNECT PUMP SUPPLIED CABLING AS REQUIRED.
 - ⑥ PROVIDE CONNECTION TO EXHAUST AN PROVIDED WITH UTILITY SHED AS REQUIRED. INSTALL A COOK MODEL GC-142 CABINET FAN OR EQUIVALENT, 75 CFM AT 0.25" E.S.P., 59 WATTS, 120V/1Ø. INSTALL TIGHT TO CEILING OF UTILITY SHELTER. PROVIDE ALUMINUM GRILLE, WALL CAP PAINTED TO MATCH UTILITY SHELTER, CONTROL TRANSFORMER, AND 24V. THERMOSTAT TO TURN FAN ON ABOVE 80° (ADJUSTABLE). INSTALL A 12" X 12" WALL LOUVER WITH MOTORIZED DAMPER INTERLOCKED TO OPEN WITH FAN OPERATION.
 - ⑦ PROVIDE CONNECTION TO UNIT HEATER IN UTILITY SHED AS REQUIRED. VERIFY LOCATION PRIOR TO ROUGH-IN. INSTALL A MARKEL MODEL P3P5103CAIN ELECTRIC UNIT HEATER OR EQUIVALENT. HEATER SHALL BE 3.3 KW, 112 MBH, 4 ØA, 480/3Ø. PROVIDE WITH WALL MOUNTING BRACKET, CONTROL TRANSFORMER, AND 24 V LOW VOLTAGE THERMOSTAT TO START THE HEATER BELOW 50° (ADJUSTABLE).

SYMBOL LIST		
SYMBOL	DESCRIPTION	MOUNTING
(A)	FLUORESCENT FIXTURE & FIXTURE LETTER	CEILING
(H-A)	INCAND. OR H.I.D. FIXTURE & FIXT. LETTER	WALLBRACKET
(GFCI)	GFCI DUPLX GROUNDED RECEPTACLE	1'-3" AFF
(D)	DUPLX GROUNDED RECEPTACLE	1'-3" AFF
(E)	EXTERIOR GFCI RECEPT. WEATHERPROOF	1'-3" AFF
(S)	SWITCHES (1-POLE,3-WAY,4-WAY,PILOT,KEY)	4'-0" TO TOP
(J)	JUNCTION BOX	
(F)	FUSTAT	
(□)	SPECIAL DEVICE AS NOTED ON PLAN	
(A)	BRANCH CIRCUIT PANEL & PANEL DESIG.	6'-6" TO TOP
(S)	H.D. SAFETY SWITCH (AMPS,POLE,VOLTAGE)	6'-6" TO TOP
(S)	STARTER (SIZE,POLE,VOLTAGE)	6'-6" TO TOP
(T)	THERMOSTAT (BY M.C.)	4'-0" TO TOP
(M)	MOTOR	
(C)	CONDUIT RUN 2#12 & 1#12 GRD.-1/2"C.	CEIL/WALL
(H)	CONDUIT RUN 2 CIRCUIT,3#12 & 1#12 GRD.-1/2"C.	EARTH/FLOOR
(H)	PARTIAL HOMERUN (MULTIPLE LOAD LOCATIONS)	
(#10)	SEE NOTE #7	
(XXX)	FEEDER IDENTIFICATION, SEE SCHEDULE	
(WP)	WEATHERPROOF	
(a,b,c)	INDICATES SWITCHING SCHEME	

- ### GENERAL NOTES
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).
 - REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
 - REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
 - E.C. SHALL REFER TO DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
 - COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
 - ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
 - CONDUIT RUN W/ CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250-122 (2014); CONDUIT SIZE AS REQUIRED.
 - WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
 - CONTRACTOR SHALL BUILD TO ALL CURRENT NATIONAL, STATE, AND LOCAL CODES.



A ELECTRICAL LAYOUT DIAGRAM
SCALE: 1/8"= 1'-0"
NORTH



Integrated Consulting Engineers, Inc.
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Baughman Rocky Ford Addition
MISC. DETAILS
Sanitary Sewer Improvements

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ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 468-34463	DESIGN GWS	DRAWN
REVISIONS:	APPROVED BJV	DATE 11-01-17
	SCALE AS NOTED	
	SHEET	15 26