



ONE LINE DIAGRAM

TAG	WIRING	CONDUIT	SOURCE	DESTINATION	COMMENTS
1001	3#4, #4N	2"	WEATHERHEAD	UTILITY TRANSOCKET	
1002	3#4, #8G	1 1/4"	UTILITY TRANSOCKET	UTILITY MAIN	
1003	3#4, #8G	1 1/4"	UTILITY MAIN	ATS	
1004	10#14	1"	ATS	GENERATOR CONTROL PANEL	
1005	3#4, #8G	1 1/4"	ATS	GENERATOR BREAKER	
1006	3#4, #8G	1 1/4"	GENERATOR BREAKER	GENERATOR	
1007	3#4, #8G	1 1/4"	ATS	PUMP CONTROL PANEL	
1009	3#10, #10G	1"	PUMP CONTROL PANEL	GUTTER	PUMP #1
1010	3#10, #10G	1"	PUMP CONTROL PANEL	GUTTER	PUMP #2
1012	4#12, #12G	1"	PANEL "A"	GENERATOR	JACKET HTR, BATT. CHGR
1013	2#10, #10N, #10G	1"	ATS	LTG XFMR DISCONNECT	
1014	2#10, #10N, #10G	1"	LTG XFMR DISCONNECT	LTG XFMR	
1015	2#6, #6N, #6G	1"	LTG XFMR	PANEL "A"	
1016	2#12, #12G	3/4"	PANEL "A"	SCADA EQUIPMENT	
1017	2#12, #12G	3/4"	PANEL "A"	GFCI RECEPTACLE @ ELECT. RACK	
1018	4#8, #8G	1 1/4"	UTILITY MAIN	SPD	
1019	8#14, #14G	1"	PUMP CONTROL PANEL	GUTTER	PUMP AUX.
1020	2#12, #12G	3/4"	PANEL "A"	EQ. RACK LIGHT	
2002	8 #14, #14G.	1 1/2"	PUMP CONTROL PANEL	GUTTER	PUMP CONTROLS
2003	8 #14, #14G.	1 1/2"	PUMP CONTROL PANEL	GUTTER	FLOATS
2006	2#14, #14G.	3/4"	PUMP CONTROL PANEL	LTG. PANEL 'A' SPD (TVSS)	
2007	4-2C/S#16, 24#14	1 1/2"	PUMP CONTROL PANEL	UT. MAIN, GEN. MAIN, PMU, ATS, GAS DET.	
2008	6#14, #14G.	1"	PUMP CONTROL PANEL	GENERATOR CONTROL PANEL	
2009	6#14, #14G.	1"	ATS	GENERATOR CONTROL PANEL	
2010	PULL CORD	1"	PUMP CONTROL PANEL	GUTTER	SPARE
2011	1/2" COAX	2"	PUMP CONTROL PANEL	ANTENNA	
2012	PULL CORD	1"	PUMP CONTROL PANEL	GUTTER	SPARE
2015	2-2C/S#16, 10#14, #14G	1 1/2"	PUMP CONTROL PANEL	GENSET MAIN	
2016	10#14, #14G	1"C.	PUMP CONTROL PANEL	ATS	

ONE LINE DIAGRAM LEGEND	
SYMBOL	DESCRIPTION
	POWER TRANSFORMER
	CURRENT TRANSFORMER
	CONTROL POWER (CPT) OR POTENTIAL (PT) TRANSFORMER
	THERMAL MAGNETIC CIRCUIT BREAKER; AF=FRAME SIZE, AT=AMP TRIP
	MAGNETIC ONLY CIRCUIT BREAKER; NUMBER INDICATES CONTINUOUS CURRENT RATING
	FUSE
	FUSED SWITCH
	FULL VOLTAGE, NON-REVERSING STARTER, WITH OVERLOAD RELAY, NUMBER INDICATES NEMA SIZE
	CONNECTION TO GROUND
	SPACE HEATER
	SOLID NEUTRAL
	DELTA CONNECTED TRANSFORMER WINDINGS
	WYE CONNECTED TRANSFORMER WINDINGS
	LIGHTNING ARRESTER
	SURGE CAPACITOR

PANEL SCHEDULE							
NUMBER	A	LOCATION	EQUIPMENT	RACK	VOLTS	120/240V 1Ø 3WIRE	SIZE
							100A
							MAIN LUGS ONLY
CIRCUIT DESCRIPTION	LOAD WATTS	CKT BKR	CKT #	CKT #	CKT BKR	LOAD WATTS	CIRCUIT DESCRIPTION
LIGHT		20/1	1	2	20/1		INSTRUMENT PANEL
GENERATOR JACKET WATER HEATER		20/1	3	4	20/1		GENERATOR BATTERY CHARGER
UPS GFCI RECEPT. IN PUMP CONTROL PANEL		20/1	5	6	20/1		GFCI RECEPT. IN PUMP CONTROL PANEL
SQUARE D NOOD OR EQUAL PROVIDE INTEGRAL TVSS UNIT WITH 120 KA SURGE RATING SURGE COUNTER AND ALARM CONTACTS							
				NEUTRAL	GROUND		

This record drawing is a compilation of the sealed engineering drawing for this project; modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer cannot be verified for accuracy or completeness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Carter, L.L.P.
BY PAG DATE 11/30/12

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CITY OF ROCKWALL, TEXAS
CHANDLERS DEEP LIFT STATION IMPROVEMENTS
ELECTRICAL
ONE LINE DIAGRAM

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