

TABLE 805-14

PUMP STATION NO. _____			
DESIG.	ITEM DESCRIPTION	ITEM VALUE	UNITS
A	UTILITY SHORT CIRCUIT RATING		KAIC
B	UTILITY MAIN DISCONNECT/ CIRCUIT BREAKER SIZE		AMPS
C	AUTOMATIC TRANSFER SWITCH RATING		AMPS
D	TRANS. T1 PRIMARY CIRCUIT BREAKER		AMPS
E	TRANS. T1 SIZE		KVA
F	PUMP MOTOR SIZE		HP
G	VFD RATING		KVA
H	PUMP MOTOR BREAKER SIZE		AMPS
I	QUANTITY OF SMALLER MOTORS		EACH
J	SMALLER MOTOR SIZE		HP
K	SMALLER MOTOR STARTER SIZE		NEMA SIZE
L	SMALLER MOTOR VFD SIZE		KVA
M	SMALLER MOTOR BREAKER SIZE		AMPS
N			
O			

NOTES:

1. THIS DRAWING PROVIDES GENERAL REQUIREMENTS. THE SPECIFIC SIZE AND QUANTITY OF PUMPS, THE USE OF FIXED SPEED OR VFD AND THE SPECIFIC REQUIREMENTS FOR ANCILLARY AND ELECTRIC BUILDING LOADS ARE PROVIDED IN THE SPECIFIC CONTRACT DOCUMENTS FOR THE INDIVIDUAL PUMP STATIONS. ANY VALUES SHOWN ON SHEET 1 OF 2 ARE FOR EXAMPLE ONLY.
2. ALL DRIVES ABOVE 150HP SHALL BE FREE STANDING. 18 PULSE PWM TYPE. DRIVES SHALL MEET IEEE 519-1992 HARMONIC DISTORTION LIMITS AT THE MCC BUS WHEN ALL DUTY PUMPS ARE RUNNING ON UTILITY AND GENERATOR.
- * 3. WIRE ATS SIGNALS TO PUMP CONTROL PANEL.
4. COORDINATE WITH ELECTRIC UTILITY. PROVIDE CT ENCLOSURE WITH METER SOCKET WHERE REQUIRED.
5. VERIFY AVAILABLE SHORT CIRCUIT CURRENT WITH SERVICING ELECTRIC UTILITY.
6. PROVIDE PANELS SIZED ACCORDING TO SPECIFIC LOAD REQUIREMENTS OF THE PUMP STATION AND ASSOCIATED GENERATOR. 480 VOLT PANELS MAY BE EXCLUDED AS DICTATED. SEE PANEL SCHEDULES THIS SHEET.
7. COORDINATE TRANSFORMER AND BREAKER SIZES BASED ON SPECIFIC LOADS, GENERATOR JACKET WATER HEATER AND AIR CONDITIONER.
8. IF VFDS ARE SELECTED, USE SWITCHBOARD OTHERWISE, USE MOTOR CONTROL CENTER.

LEGEND:

- VFD = VARIABLE FREQUENCY DRIVE
- TVSS = TRANSIENT VOLTAGE SURGE SUPPRESSOR
- PFR = PHASE FAILURE RELAY
- ATS = AUTOMATIC TRANSFER SWITCH
- LT = LIGHTING TRANSFORMER
- LP = LIGHTING PANEL

PANEL SCHEDULES

MAIN RATING:	PANEL: LP				KAIC
	AMPS			AIC RATING:	
DESCRIPTION	AMPS/POLES	CIRCUIT #	CIRCUIT #	AMPS/POLES	DESCRIPTION
PLC & DC POWER SUPPLY	20/1	1	2	20/1	LEVEL CONTROL & CGD
STATION ALARM AND INDICATORS	20/1	3	4	20/1	CONTROL PANEL LIGHTS, RECEPT. & HEATERS
AREA LIGHTS	20/1	5	6	20/1	GEN. BATTERY CHARGER
GEN. JACKET WATER HEATER (SEE NOTE 7)	XX/2	7	8	20/1	GEN. MAINTENANCE RECEPTACLE
"		9	10		
		11	12		
		13	14		
		15	16		
		17	18		
		19	20		
		21	22		
		23	24		

MAIN RATING:	PANEL: LP				KAIC
	MLO AMPS			AIC RATING:	
DESCRIPTION	AMPS/POLES	CIRCUIT #	CIRCUIT #	AMPS/POLES	DESCRIPTION
		1	2		
		3	4		
		5	6		
		7	8		
		9	10		
		11	12		



STANDARD PLAN NO. 805-14	DATED AUGUST 1, 2011	SHEET NO. 2 OF 2
ELECTRICAL THREE LINE DIAGRAM (TYPE II PUMP STATION)		
ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE		
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT
APPROVED B. HARMON		

4/13	MISC. REVISIONS		A.S.
DATE	DESCRIPTION		BY
	REVISIONS		