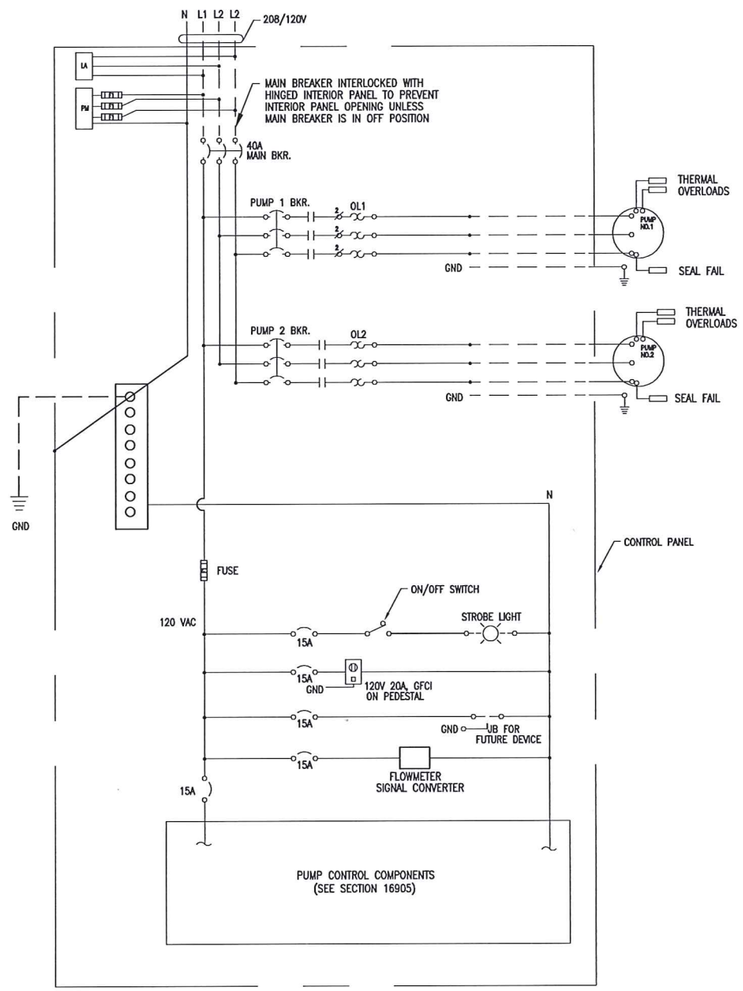
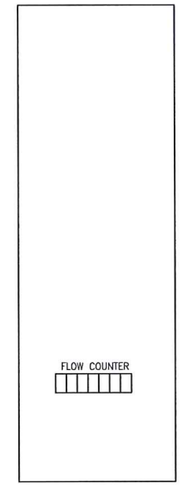


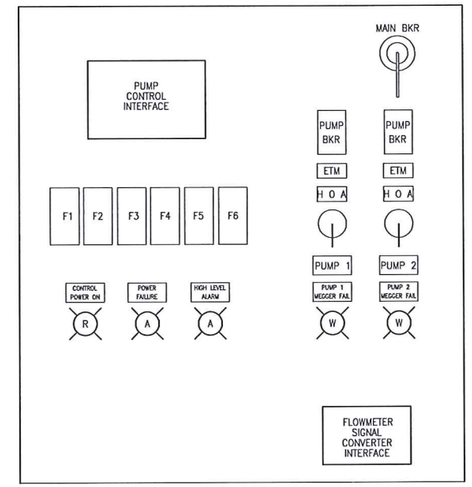
DUPLEX PUMP CONTROL PANEL SCHEMATIC

LEGEND

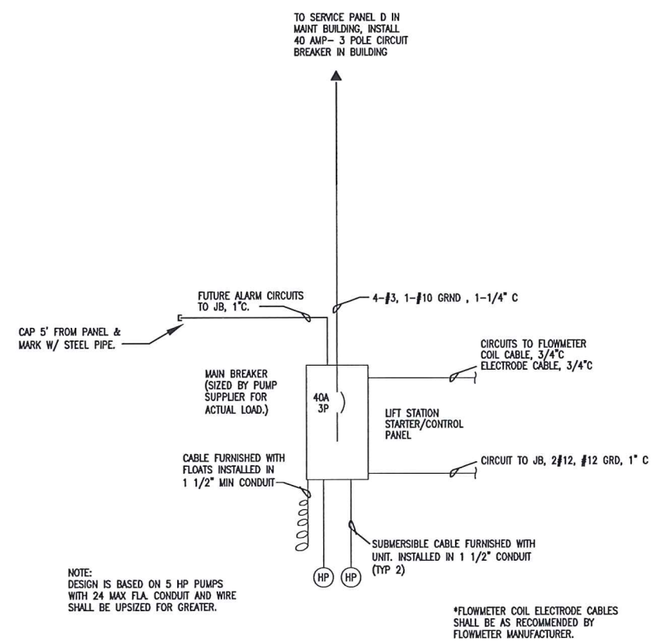
M1,M2	– MOTOR CONTACTORS
OL1,OL2	– OVERLOADS
TP1,TP2	– THERMAL PROTECTORS
GND	– EQUIP. GROUND, GROUND
EA	– ELECTRIC ALTERNATOR
FS5	– FLOAT SWITCH LOW WATER CUTOFF
FS4	– FLOAT SWITCH 1– PUMP OFF
FS3	– FLOAT SWITCH 2– PUMP ON
FS2	– FLOAT SWITCH 3– LAG PUMP ON
FS1	– FLOAT SWITCH 4– HIGH LEVEL ALARM
PM	– PHASE MONITOR
	WIRING WITHIN PANEL
	FIELD WIRING
	CONTROL PANEL TERMINALS
	EQUIP. TERMINALS
LA	LIGHTING ARRESTOR
	ULTRASAFE FUSES, DISCONNECT RATED WITH INDICATOR "FUSE-BLOWN"
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER



SIDE OF ENCLOSURE
NO SCALE



INNER SUB PANEL LAYOUT
NO SCALE



NOTE:
DESIGN IS BASED ON 5 HP PUMPS WITH 24 MAX FLA. CONDUIT AND WIRE SHALL BE UPSIZED FOR GREATER.

*FLOWMETER COIL ELECTRODE CABLES SHALL BE AS RECOMMENDED BY FLOWMETER MANUFACTURER.

DUPLEX ONE–LINE
NO SCALE

NO.	DATE	REVISIONS	BY	APP'D
1				
2				
3				
4				
5				

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Designed By: M. HALL
Drawn By:
Checked By: M. HALL
Issue Date: 11-2-09

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TRENTON MoDOT MAINT FACILITY
TRENTON, MISSOURI

ELECTRICAL DETAILS

800160-030

SHEET NO. 8 OF 11

P:\800160-030_ACAD\CIVIL\800160-030-DETAILS.DWG
LAYOUT: SHT8 BY: MHALL DATE: 12/29/2009
XREF DWG1: NONE XREF DWG2: NONE
XREF DWG3: NONE XREF DWG4: NONE