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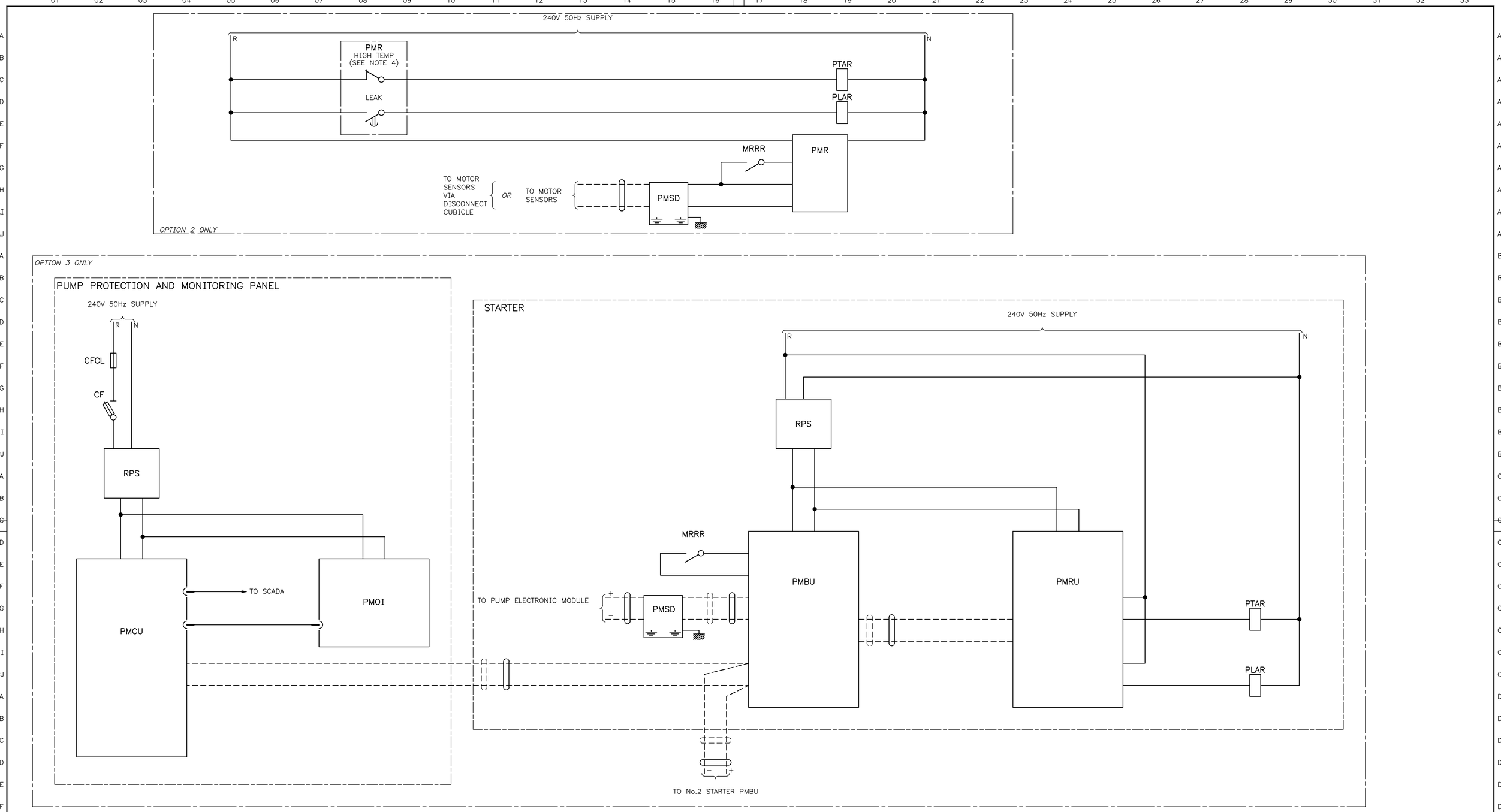

GENERAL NOTES

1. DRAWN NO POWER CONDITION
2. UNLESS OTHERWISE SHOWN 240V AC CONTROL CABLING MINIMUM 0.75mm^2 Cu PVC V75 OR LSFLEX R–125
3. UNLESS OTHERWISE SHOWN 24V DC CONTROL CABLING MINIMUM 0.5mm^2 Cu PVC V75 OR LSFLEX R–125
4. PMR RELAY HIGH TEMP CONTACT CHANGES STATE ON ENERGIZATION
5. PUMP MONITORING RELAY 'HIGH TEMP ALARM' CONTACT CHANGES STATE ON ENERGIZATION
6. PUMP MONITORING RELAY 'LEAK ALARM' CONTACT DOES NOT CHANGE STATE ON ENERGIZATION

INSTRUCTIONS FOR USE

1. *MONITORING SENSORS DEPENDANT ON SIZE AND TYPE OF PUMP. HARD WIRED CONTROL SHALL BE SET TO MIMIC STANDARD PMR CONTROL DIAGRAM THEREFORE ALL 'THERMAL' ALARMS SHALL BE ON RELAY 'A' AND ALL LEAKAGE ALARMS ON RELAY 'B'.*
2. *ANALYTICAL INFORMATION IS PROJECT SPECIFIC AND SHALL BE READ VIA THE SERIAL LOOP CONNECTED TO THE PSI.*

OPTION TABLE

No	DESCRIPTION
1	MOTOR WITH THERMISTORS
2	MOTOR WITH THERMAL SWITCH AND STATOR LEAK SENSOR (FLYGT)
3	MOTOR WITH THERMAL SWITCH AND STATOR LEAK SENSOR (FLYGT MAS801)

CODE SCHEDULE

CF	CONTROL FUSE
CFCL	CONTROL FAULT CURRENT LIMITER
MRRR	MOTOR PROTECTION REMOTE RESET RELAY
PLAR	PUMP LEAK ALARM RELAY
PMBU	PUMP MONITORING BASE UNIT
PMCU	PUMP MONITORING CENTRAL UNIT
PMOI	PUMP MONITORING OPERATOR INTERFACE PANEL
PMR	PUMP MONITORING RELAY
PMRU	PUMP MONITORING RELAY UNIT
PMSD	PUMP MONITORING SURGE DIVERTER
PTAR	PUMP MOTOR HIGH TEMPERATURE ALARM RELAY
RPS	REGULATED POWER SUPPLY

REFERENCE EXPLANATION

(P)WXYZ
41#1.1#AB34

- PANEL LETTER
- CODE
- HORIZONTAL LOCATION
- VERTICAL LOCATION
- PART Nº (IF REQUIRED)
- SHEET Nº
- BUNDLE Nº

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD
D	01/2024		CFCL SYMBOL REVISED	SAM	TK	EG
C	03/2021		REVISED FOR MAS801	PH	TL	EG
B	10/2020		MAS 711 MOTOR CONNECTIONS REVISED	PH	EG	NJ

566
810

DESIGN SURVEY NONE
ASCON SURVEY NONE
VERTICAL DATUM NONE
COORDINATE SYS NONE
DES REF
DES CALC T LIU
DES CHD E GLIWSKI
DRN P HARVEY
Q.C. CHD S MEMORY
NORTH POINT

ENGINEERING

SUBMITTED 29/11/2019 T LIU (SIGNED) SENIOR ENGINEER – ELECTRICAL
RECOMMENDED 29/11/2019 E GLIWSKI (SIGNED) PRINCIPAL ENGINEER – ELECTRICAL
APPROVED 28/11/2019 N JOHNSON (SIGNED) SNR PRINCIPAL ENGINEER – ELECT

WATER CORPORATION

ELECTRICAL STANDARD SWITCHBOARD DESIGNS
SMALL PUMP STATIONS
MOTOR STARTER REFERENCE – WASTEWATER
ATr STARTER – CONTROL DIAGRAM 100.1A – 263A

FILE
PROJECT
PLAN MN01–22–4.3
CAD
ISSUE D
ORIGINAL SHEET SIZE A1
MF

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