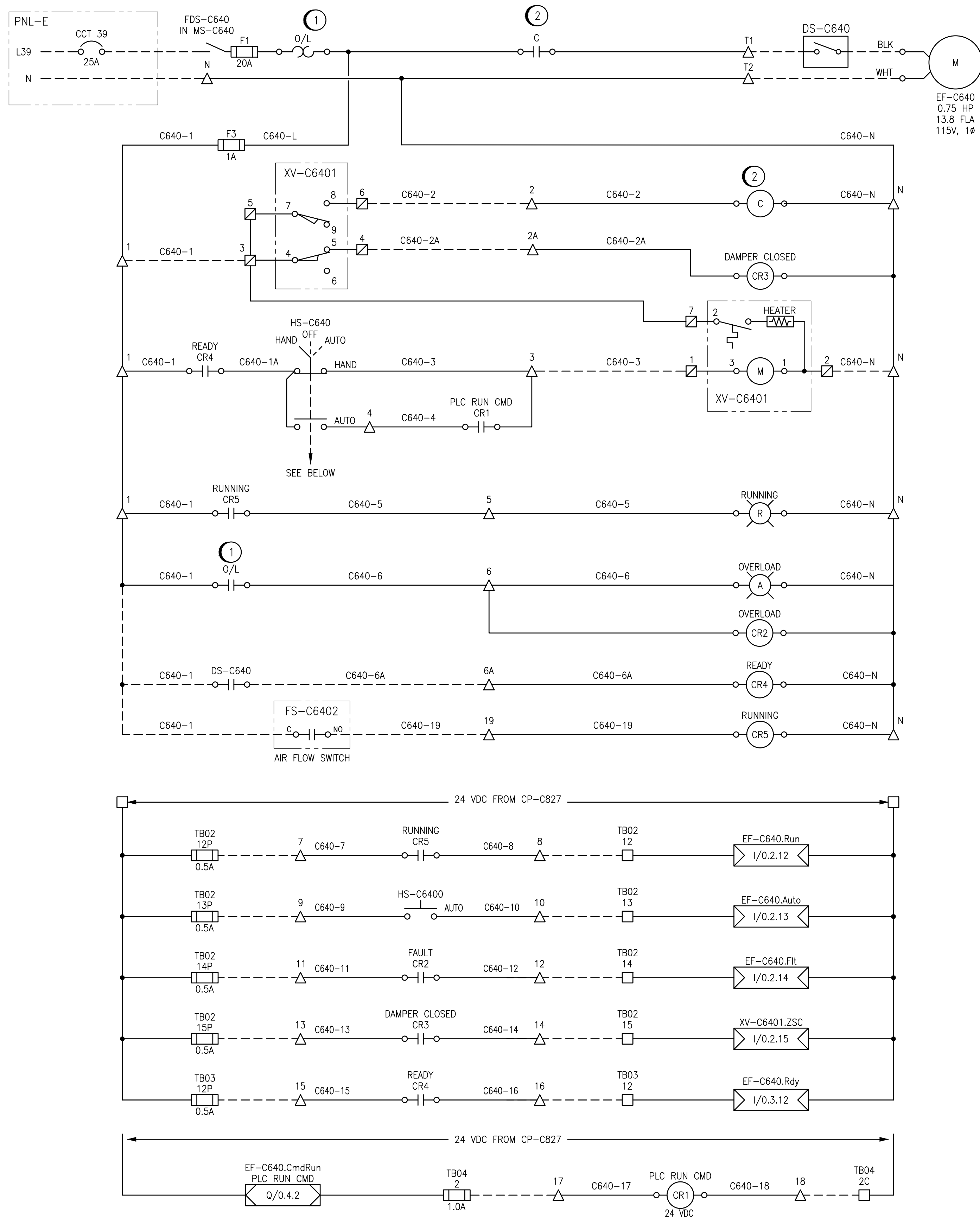
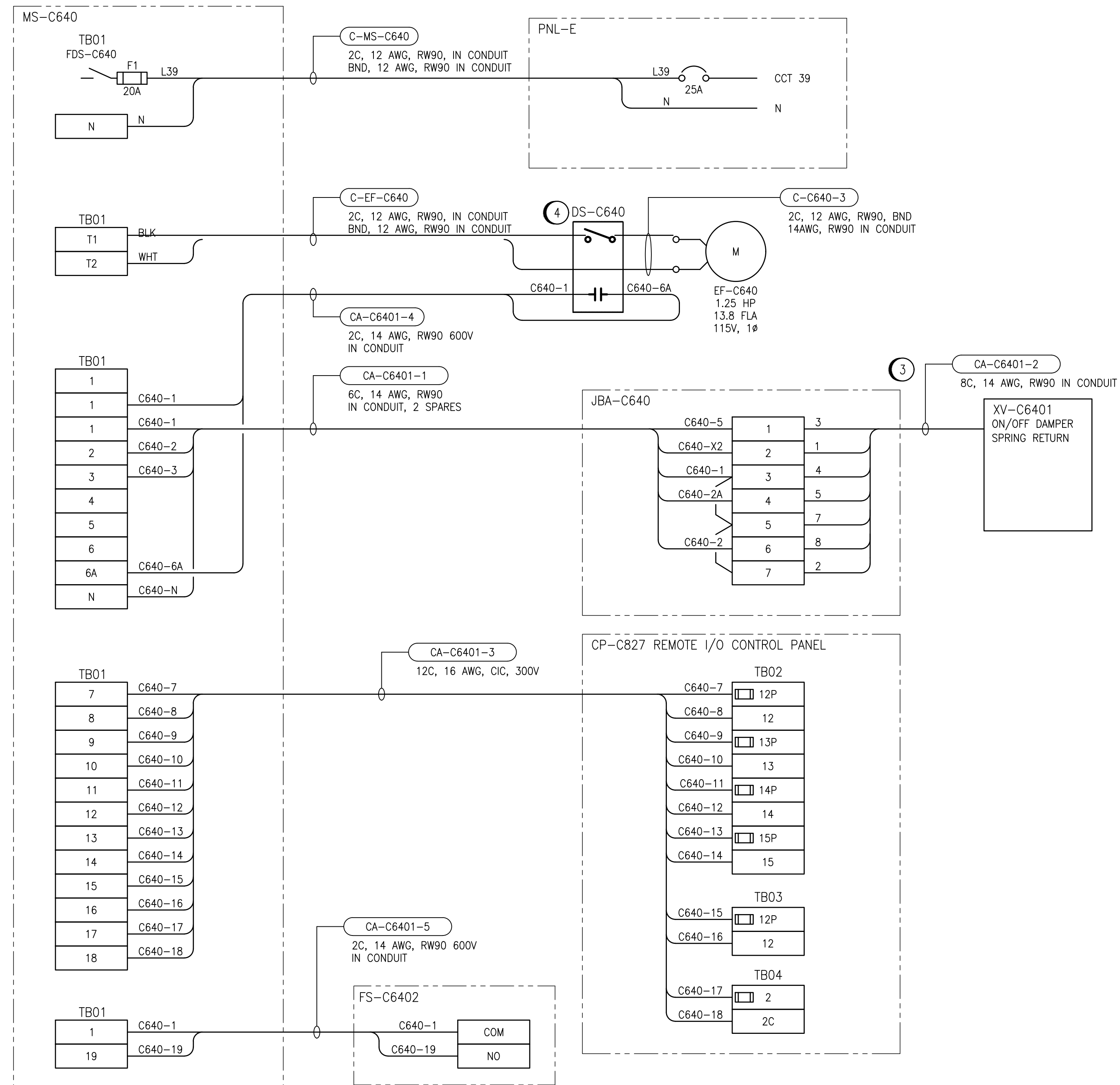


ELEMENTARY DIAGRAM:



FIELD CONNECTION DIAGRAM:



GENERAL NOTES:

- ALL CONNECTIONS FOR POWER AND CONTROLS ARE TO BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. REVIEW REQUIREMENTS ON SHOP DRAWINGS. CONTRACTOR TO VERIFY ALL CONNECTIONS WITH MANUFACTURER AND PROVIDE ALL REQUIRED EQUIPMENT, INCLUDING ANY EQUIPMENT NOT SHOWN ON DRAWING.
- ALL EQUIPMENT, CONDUIT AND CABLING SHOWN IS NEW AND SHALL BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- MS-C640 TO BE LOCATED IN CHLORINE TONNER STORAGE ROOM. CONTRACTOR TO PROVIDE CONTROL PANEL LAYOUT BASED ON SCHEMATIC. CONTRACT ADMINISTRATOR TO REVIEW AND APPROVE SHOP DRAWING OF CONTROL PANEL PRIOR TO CONSTRUCTION AND SHIPMENT TO SITE. TONNER STORAGE ROOM IS CLASSIFIED AS NEMA 4X. PANEL SHALL BE RATED NEMA 4X.

CONSTRUCTION NOTES:

- PROVIDE OVERLOAD RELAY BASED ON MOTOR FLA AND NAMEPLATE DATA. OVERLOAD SHALL BE RESET WITH A MANUAL PUSH BUTTON MOUNTED ON THE FRONT OF THE CONTROL PANEL.
- PROVIDE RELAY RATED FOR CONTINUOUS OPERATION AND THE CONTACTOR RATED MINIMUM 1.25X THE FLA OF THE MOTOR.
- JUNCTION BOX TO BE LOCATED WITHIN 10 FEET OF DAMPER ACTUATOR.
- CONTRACTOR TO PROVIDE DISCONNECT COMPLETE WITH AUXILIARY CONTACT FOR READY SIGNAL.

LEGEND:

	TERMINAL IN MS-C640
	TERMINAL IN CONTROL PANEL CP-C827
	TERMINAL IN JUNCTION BOX
	INDICATING LIGHT, R = RED A = AMBER
	PLC OUTPUT
	PLC INPUT
	FIELD WIRING
	INTERNAL WIRING

1-0650M-A0080
1-0650M-A0064
1-0650M-A0063
1-0650M-A0062
1-0650M-A0060
1-0650M-E0041

PANEL LAYOUT, DAMPER ACTUATORS, JUNCTION BOXES
CONTROL PANEL CP-C827, DISCRETE OUTPUTS RACK 0, MODULE 4
CONTROL PANEL CP-C827, DISCRETE INPUTS RACK 0, MODULE 3
CONTROL PANEL CP-C827, DISCRETE INPUTS RACK 0, MODULE 2
REMOTE I/O PANEL LAYOUT, CONTROL PANEL CP-C827
ELECTRICAL SCHEDULES, 120V PANELBOARDS

DRAWING NUMBER

REFERENCE DRAWINGS

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
AtkinsRéalis Canada Inc.
No. 4489

AtkinsRéalis
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NTS
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BY:
M. SKINNER
DATE:
2023/08/15
DATE:
2025/04/30
CONSULTANT NO.:

ENGINEER'S SEAL

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

HURST PUMPING STATION
CHLORINE SYSTEM UPGRADES
MOTOR STARTER SCHEMATIC / FIELD WIRING DIAGRAM
EXHAUST FAN EF-C640
TONNER STORAGE ROOM

CITY DRAWING NUMBER
1-0650M-E0050
SHEET
001
REV.
00
SIZE
A1