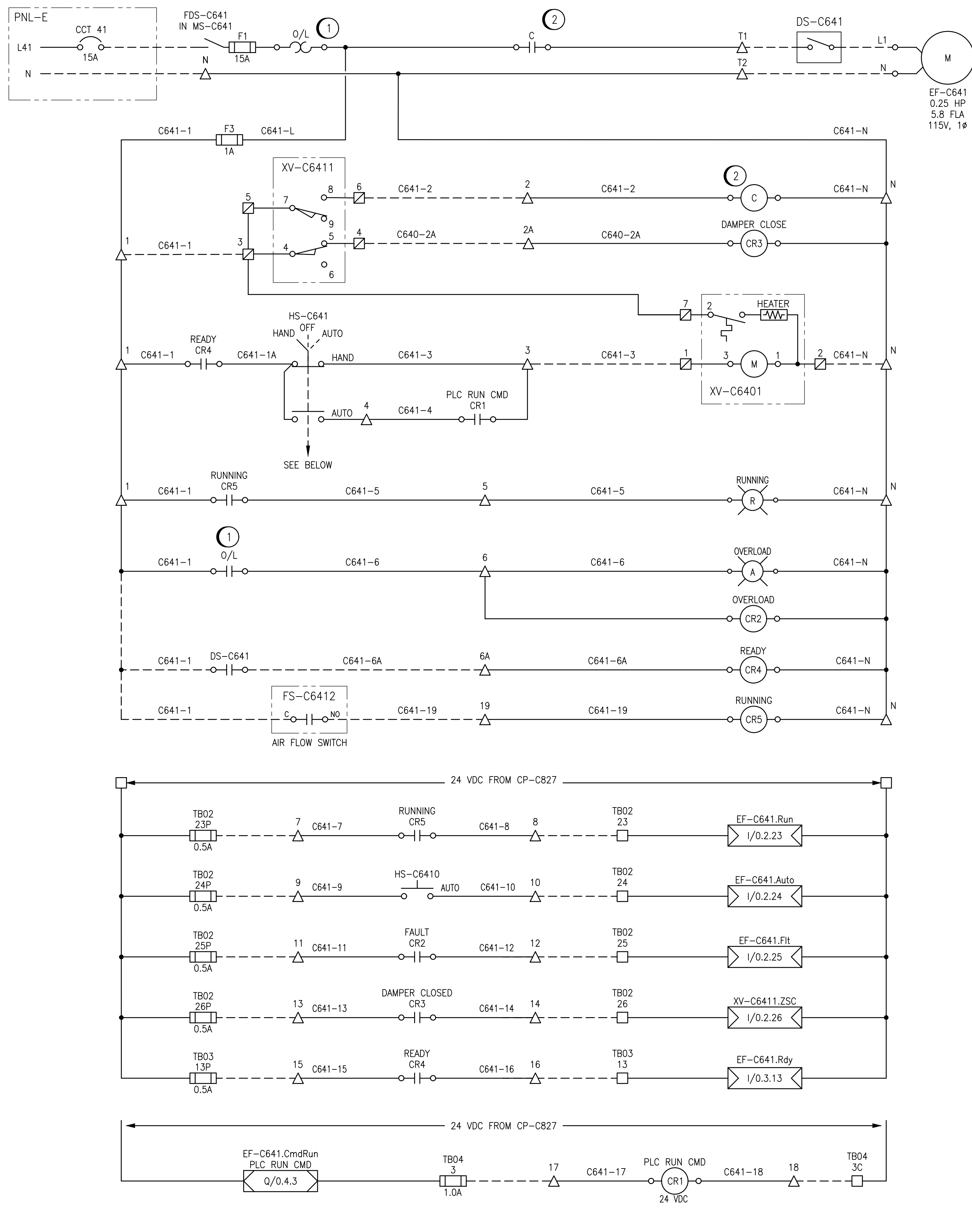
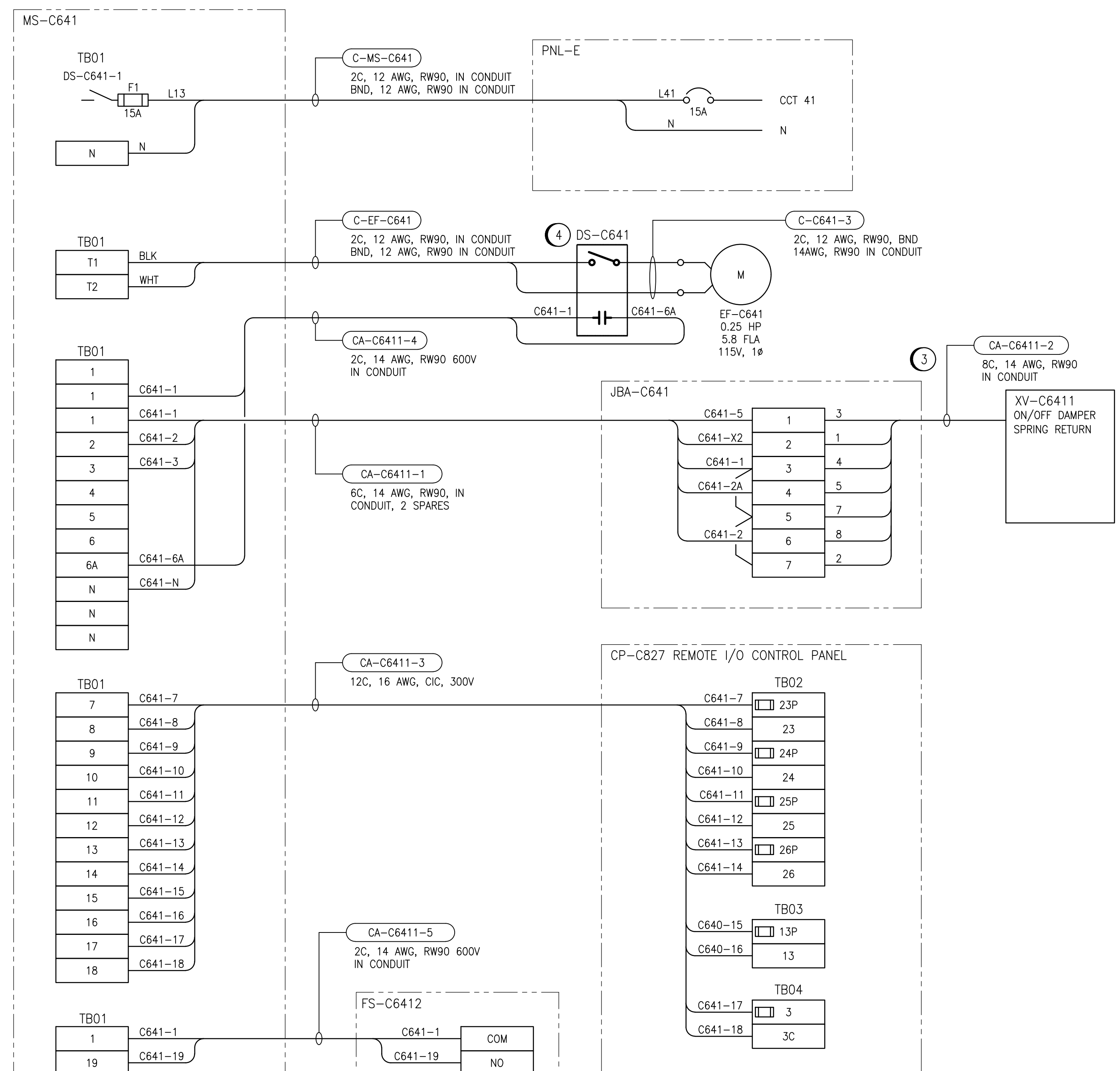


ELEMENTARY DIAGRAM:



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-C641 TO BE LOCATED IN 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. PANEL TO BE NEMA 4X COMPLIANT.

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	PANEL LAYOUT, DAMPER ACTUATORS, JUNCTION BOXES
1-0650M-A0064	CONTROL PANEL CP-C827, DISCRETE OUTPUTS RACK 0, MODULE 4
1-0650M-A0063	CONTROL PANEL CP-C827, DISCRETE INPUTS RACK 0, MODULE 3
1-0650M-A0062	CONTROL PANEL CP-C827, DISCRETE INPUTS RACK 0, MODULE 2
1-0650M-A0060	REMOTE I/O PANEL LAYOUT, CONTROL PANEL CP-C827
1-0650M-E0041	ELECTRICAL SCHEDULES, 120V PANELBOARDS
DRAWING NUMBER	REFERENCE DRAWINGS



AtkinsRéalis 148 Nature Park Way, Winnipeg, Manitoba Canada R3P 0X7 204-786-8080			
DESIGNED BY:	B. WILKS	CHECKED BY:	V. ELIMBAN
DRAWN BY:	B. WILKS	APPROVED BY:	V. ELIMBAN
SCALE:	NTS	ISSUED FOR CONSTRUCTION BY:	M. SKINNER
DATE:	2023/08/21	DATE:	2025/04/30
CONSULTANT NO.:			
00	ISSUED FOR TENDER AND CONSTRUCTION	2025/04/30	VE VE
NO.	REVISIONS	DATE	DESIGN/CHECK

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-C641 TONNER STORAGE ROOM	
CITY DRAWING NUMBER	SHEET REV. SIZE
1-0650M-E0051	001 00 A1