



EXTERIOR PANEL ELEVATION

SCALE: 1 : 1

INTERIOR PANEL ELEVATION

SCALE: 1 : 1

## TYPICAL NEMA 4X JUNCTION BOX

BILL OF MATERIAL			
ITEM	QTY	DESCRIPTION	MANUFACTURER
①	AS REQ'D	NEMA 4X ENCL. CONTINUOUS-HINGE WITH CLAMPS, 152X152X102MM	HOFFMAN
②	AS REQ'D	PANEL FOR ITEM 1	HOFFMAN
③	AS REQ'D	LAMACOIDS	-
④	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT
⑤	AS REQ'D	TERMINAL END CLAMP - CLIPFIX 35	PHOENIX CONTACT
⑥	AS REQ'D	FEED-THROUGH TERMINAL - UT 4-MTD	PHOENIX CONTACT
⑦	AS REQ'D	TERMINAL END PLATE - D-UT 2,5/4 TWIN	PHOENIX CONTACT
⑧	AS REQ'D	GROUND BAR, 6 TAPS	ILSCO

JUNCTION BOX SCHEDULE		
IDENTIFIER	NUMBER OF TERMINALS	DESCRIPTION
JB-C6301	7	SUPPLY FAN SF-C630 DAMPER XV-C6301
JBA-C6701	7	SCRUBBER SCRB-C670 DAMPER XV-C6701
JBA-C6401	7	EXHAUST FAN EF-C640 DAMPER XV-C6401
JBA-C6411	7	EXHAUST FAN EF-C641 DAMPER XV-C6411
JBA-C6421	7	EXHAUST FAN EF-C642 DAMPER XV-C6421

## GENERAL NOTES:

- ALL POWER AND 120 VAC WIRING ARE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- ALL 24 VDC CONTROL WIRING IS TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16 AWG.
- COMPONENTS ARE LABELED AS SHOWN ON THE DRAWINGS.
- TESTED ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. DOCUMENTED ALL TEST RESULTS.
- ALL MAJOR COMPONENTS INSIDE THE PANEL ARE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- PROVIDED WIRE BARREL FERRULES FOR ALL WIRING.
- ALL TERMINAL BLOCKS ARE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
- ALL WIRES ARE MARKED AS INDICATED ON THE DRAWINGS.

## CONSTRUCTION NOTES:

① PROVIDED JUNCTION BOX FOR ASSOCIATED DAMPER ACTUATOR. JUNCTION BOX WAS INSTALLED WITHIN ONE (1) METER OF DAMPER ACTUATOR.

1-0640C-E0025-001	CONNECTION DIAGRAM, CHLORINE GAS SCRUBBER SCBR-C670
1-0640C-E0024-001	CONNECTION DIAGRAM, EXHAUST FAN EF-C642, CHLORINATOR EQUIPMENT ROOM
1-0640C-E0023-001	FIELD WIRING DIAGRAM, SUPPLY FAN SF-C630, CHLORINATOR EQUIPMENT ROOM
1-0640C-E0021-001	FIELD WIRING DIAGRAM, EXHAUST FAN EF-C641, TONNER ROOM
1-0640C-E0020-001	FIELD WIRING DIAGRAM, EXHAUST FAN EF-C640, TONNER ROOM
DRAWING NUMBER	REFERENCE DRAWINGS

METRIC  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES  
0.0 0.01 0.02 0.04 0.06  
1:1

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

<p>148 Nature Park Way, Winnipeg, Manitoba Canada R3P 0X7 204-786-8080</p> <p>DESIGNED BY: V. ELIMBAN</p> <p>DRAWN BY: D. PELLEGRINO</p> <p>SCALE: 1 : 1</p> <p>DATE: 2023/08/30</p> <p>00 ISSUED FOR TENDER AND CONSTRUCTION 00. REVISIONS</p> <p>VE VE</p> <p>CONSULTANT NO:</p>	<p>CHECKED BY: V. ELIMBAN</p> <p>APPROVED BY: V. ELIMBAN</p> <p>ISSUED FOR CONSTRUCTION BY: M. SKINNER</p> <p>DATE: 2025/04/30</p> <p>VE VE</p> <p>DATE DESIGN CHECK</p>	<p>AtkinsRéalis</p> <p>148 Nature Park Way, Winnipeg, Manitoba Canada R3P 0X7 204-786-8080</p> <p>DESIGNED BY: V. ELIMBAN</p> <p>DRAWN BY: D. PELLEGRINO</p> <p>SCALE: 1 : 1</p> <p>DATE: 2023/08/30</p> <p>00 ISSUED FOR TENDER AND CONSTRUCTION 00. REVISIONS</p> <p>VE VE</p> <p>CONSULTANT NO:</p>	<p>THE CITY OF WINNIPEG Winnipeg WATER AND WASTE DEPARTMENT</p> <p>MCPHILLIPS PUMPING STATION</p> <p>PANEL LAYOUT DAMPER ACTUATOR JUNCTION BOXES</p> <p>CITY DRAWING NUMBER 1-0640M-A0024</p> <p>Sheet 00</p> <p>Size A1</p>
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