

- DEMOLISH EXISTING TEMPERATURE TRANSMITTERS. REMOVE ALL ASSOCIATED CABLING AND CONDUIT BACK TO HVAC CONTROL PANEL 1 AND/OR SOURCE
- DEMOLISH EXISTING OUTDOOR TEMPERATURE TRANSMITTER. EXACT LOCATION OF EXISTING TRANSMITTER IS UNKNOWN, CONTRACTOR TO LOCATE DEVICE. REMOVE ALL ASSOCIATED CABLING AND CONDUIT BACK TO HVAC CONTROL

LOOP DIAGRAM, TT-M6041, TT-M6042, TT-M6301 TEMP TRANSMITTERS

REFERENCE DRAWINGS

PANEL 1 AND/OR SOURCE PANEL. D-2232 MCP-STATION LOW TEMP SWITCH D - 2231MCP-STATION HIGH TEMP SWITCH 1-0640M-P0012 PROCESS & INSTRUMENTATION DIAGRAM, MISCELLANEOUS MECHANICAL, CHLR-M640, ELEV. 233.020 PART PLAN 1-0640M-M0007 1-0640M-M0005 MECHANICAL, BUILDING CHILLER, DEMOLITION PLANS 1-0640M-E0040 ELECTRICAL EQUIPMENT PLAN, MEZZANINE LEVEL ELECTRICAL EQUIPMENT PLAN, ELECTRICAL/CONTROL ROOMS, FINAL 1-0640M-E0039 LOOP DIAGRAM, AIT-M6901-1, AIT-M6901-2, AIT-M6901-3 1-0640M-A0074 1-0640M-A0072 LOOP DIAGRAM, FSL-M6112, FSL-M6122, FSL-M6132, AIR FLOW SWITCH LOOP DIAGRAM, TSL-M6043, MIX AIR TEMPERATURE SWITCH -0640M-A0069 -0640M-A0068 LOOP DIAGRAM, PDS-M6021, AIR FILTER DIFFERENTIAL PRESS. SWITCH -0640M-A0067-002 LOOP DIAGRAM, FV-M6146, RETURN AIR FLOW DAMPER -0640M-A0067-001 LOOP DIAGRAM, FV-M6146, RETURN AIR FLOW DAMPER -0640M-A0066 LOOP DIAGRAM, FV-M6148, STATION RELIEF AIR FLOW DAMPER -0640M-A0065 LOOP DIAGRAM, FV-M6147, STATION RELIEF AIR FLOW DAMPER -0640M-A0064 LOOP DIAGRAM, TT-M6011, TT-M6045, TEMPERATURE TRANSMITTERS -0640M-A0063-002 LOOP DIAGRAM, FV-M6145, OUTDOOR AIR FLOW DAMPER -0640M-A0063-001 LOOP DIAGRAM, FV-M6145, OUTDOOR AIR FLOW DAMPER -0640M-A0062 LOOP DIAGRAM, XV-M6144, OUTDOOR INTAKE AIR DAMPER

-0640M-A0060

DRAWING NUMBER

- ALL ASSOCIATED CABLING AND CONDUIT BACK TO HVAC CONTROL PANEL 1 AND/OR SOURCE PANEL. EXACT LOCATION OF FREEZE STAT IS UNKNOWN, CONTRACTOR TO LOCATE DEVICE.
- DEMOLISH EXISTING PRESSURE DIFFERENTIAL SWITCH. EXACT LOCATION OF EXISTING PRESSURE SWITCH IS UNKNOWN. CONTRACTOR TO LOCATE DEVICE. REMOVE ALL ASSOCIATED CABLING AND CONDUIT BACK TO HVAC CONTROL PANEL 1 AND/OR SOURCE PANEL.
- DEMOLISH EXISTING COMBUSTIBLE GAS ANALYZER PZ-923-GSH-GSHH, AND ASSOCIATED EQUIPMENT. REMOVE ALL ASSOCIATED CABLING AND CONDUIT BACK TO HVAC CONTROL PANEL 1 AND/OR SOURCE PANEL.
- DEMOLISH EXISTING STATION TEMPERATURE SWITCH HIGH (PH-600-TSH) AND TEMPERATURE SWITCH LOW (PH-600-TSL). RETAIN EXISTING CABLING AND CONDUIT FOR NEW SWITCHES.
- DEMOLISH EXISTING TEMPERATURE SWITCH TLL-1B. REMOVE ALL ASSOCIATED CABLING AND CONDUIT BACK TO HVAC CONTROL PANEL 1 AND/OR SOURCE PANEL. TEMPERATURE SWITCH WILL NOT BE REPLACED WITH A NEW ONE.

**METRIC** 

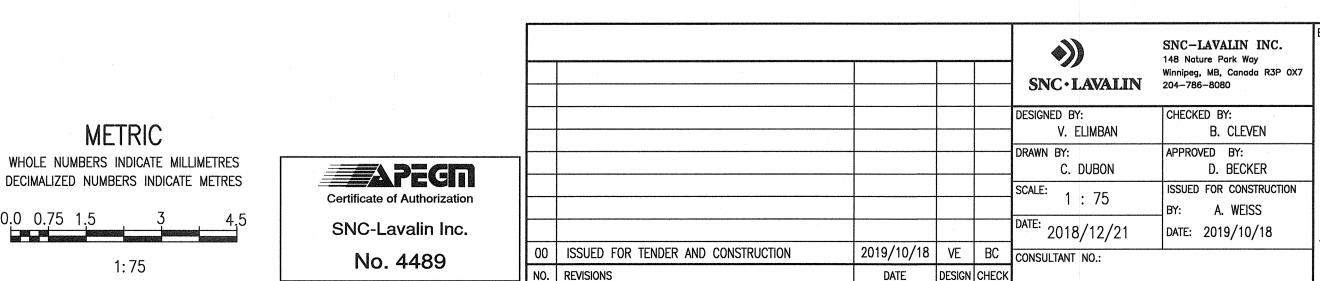
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DEMOLISH EXISTING HVAC CONTROL PANEL 1. REMOVE ALL ASSOCIATED CABLING AND CONDUIT BACK TO THE SOURCE DEVICE/PANEL.

- LOCATED ON CEILING DIRECTLY ABOVE NATURAL GAS PUMPS. WIRE TO ASSOCIATED GAS DETECTOR CONTROLLER/TRANSMITTER. PROVIDE ALL NECESSARY MOUNTING HARDWARE. REFER TO DRAWING 1-0640M-A0103 FOR WIRING DETAILS.
- PROVIDE NEW DAMPER ACTUATOR AS SHOWN ON DRAWING. ACTUATORS SHALL BE LOCATED IN SAME LOCATION AS PREVIOUSLY DEMOLISHED ACTUATORS. PROVIDE NEW CABLING AND CONDUIT.
- PROVIDE NEW TEMPERATURE TRANSMITTERS AS SHOWN ON DRAWING. PROVIDE NEW CABLING AND CONDUIT.
- PROVIDE NEW OUTDOOR TEMPERATURE TRANSMITTER, TT-M6041. TRANSMITTER SHALL BE LOCATED IN SAME LOCATION AS PREVIOUSLY DEMOLISHED TRANSMITTER. PROVIDE NEW CABLING AND CONDUIT.
- PROVIDE NEW SUPPLY FAN FLOW SWITCHES AS SHOWN ON DRAWING. FLOW SWITCH SHALL BE LOCATED IN SAME LOCATION AS PREVIOUSLY DEMOLISHED FLOW SWITCH. PROVIDE NEW CABLING AND CONDUIT.
- PROVIDE NEW TEMPERATURE LOW LIMIT FREEZE STAT SWITCH TSL-M6043. SWITCH SHALL BE LOCATED IN SAME LOCATION AS PREVIOUSLY DEMOLISHED STAT SWITCH. PROVIDE NEW CABLING AND CONDUIT.

- TSL-M6002. REUTILIZE EXISTING CABLING/CONDUIT AND IDENTIFICATION. RETAIN EXISTING PLC POINTS.
- PROVIDE NEW HVAC CONTROL PANEL CP-M826.
- PROVIDE THERMOSTAT, TIC-M601, FOR ELECTRICAL DUCT HEAT, HCE-M601, CONTROL. PROVIDE TEMPERATURE SENSOR TE-M601 IN ELECTRIC COIL ROOM. ENSURE SENSOR IS LOCATED AT LEAST 0.6M AWAY FROM DUCT HEATER, HCE-M601.
- 1. ALL DEVICES SHOWN ARE NEW AND ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED AS EXISTING.
- 2. LOCATION OF EXISTING DEVICES BEING REPLACED ARE APPROXIMATE. ELECTRICAL CONTRACTOR TO DETERMINE EXACT LOCATION AND INSTALL NEW DEVICE IN EXISTING DEVICE LOCATION.
- 3. NOT ALL EQUIPMENT IS SHOWN. REFER TO AUTOMATION LOOP DRAWINGS FOR ASSOCIATED DEVICES (EG. JUNCTION BOXES) NEEDED FOR WIRING CONNECTIONS IN THE FIELD.
- 4. ONLY KNOWN EXISTING EQUIPMENT/DEVICE NUMBERS ARE SHOWN. FOR EXISTING EQUIPMENT/DEVICE NUMBERS THAT ARE UNKNOWN AND ARE TO BE REPLACED BY NEW DEVICES, ONLY THE NEW DEVICE NUMBER IS
- 5. TRANSFORMER HIGH WINDING TEMPERATURE SWITCHES TSH-M7100 AND TSH-M7200 SHALL BE PROVIDED ALONG WITH THE TRANSFORMER.



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THE CITY OF WINNIPEG Winnipeg WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT INSTRUMENTATION PLAN — DEMO & NEW WORK MEZZANINE LEVEL

CITY DRAWING NUMBER SHEET | REV. | SIZE -0640M - A0048

1-0640M-A0048-001-00.d