

**PUMPING STATION - LOWER LEVEL**  
SCALE: 1 : 75

**LEGEND:**

- EXISTING
- NEW WORK
- - - DEMOLISH

**GENERAL NOTES:**

1. ALL EQUIPMENT IS NEW UNLESS SPECIFICALLY NOTED OTHERWISE AND SHALL BE PROVIDED THE CONTRACTOR.
2. PROVIDE UNISTRUT AS NEEDED WHEN ROUTING TECK90 CABLES.
3. REFER TO ASBESTOS REPORTS IN APPENDIX B. ASBESTOS IS PRESENT IN AND/OR PRESUMED TO BE PRESENT IN (BUT NOT LIMITED TO) THE FOLLOWING:

PIPING : RAIN WATER LEADER (SWEAT WRAP PIPE INSULATION & PARING OVER FIBREGLASS)  
DOMESTIC WATER HOT/COLD (PARING OVER FIBREGLASS)  
CHILLED WATER SUPPLY/RETURN (PARING CEMENT)

FLOOR : PLASTER (CERAMIC TILES)  
ADHESIVE/MASTIC (CERAMIC TILES)

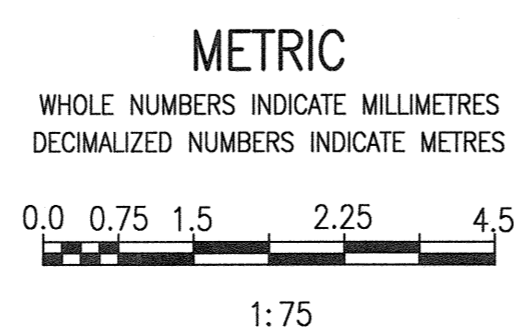
DUCT : GENERATOR EXHAUST (MAGNESIA BLOCK)  
FRESH AIR INTAKE (SWEAT WRAP PIPE INSULATION & PARING OVER FIBREGLASS)

**DEMOLITION NOTES:**

- (A) DEMOLISH EXISTING CHILLER CH-M1 AND ALL ASSOCIATED EQUIPMENT AND CABLING UP TO THE SOURCE MCC-A.
- (B) DEMOLISH EXISTING 4-PLEX MCC-M6, CONDENSER WATER PUMPS P7 AND P8, COOLING TOWER FANS 1 AND 2, FUSE DISCONNECT SWITCH (FDS-HTR-M60), HTR-M60, AND ALL ASSOCIATED CABLING/CONDUIT.
- (C) DEMOLISH EXISTING AIR COMPRESSOR ALTERNATOR PANEL AND ASSOCIATED LOCAL STOP AND START BUTTONS. DEMOLISH ALL ASSOCIATED CABLING/CONDUIT.
- (D) DEMOLISH EXISTING STOP/START PUSHBUTTONS FOR SUMP PUMPS SP1 AND SP2. REMOVE ALL ASSOCIATED CABLING/CONDUIT.
- (E) DEMOLISH EXISTING WELDING RECEPTACLE.

**CONSTRUCTION NOTES:**

- (1) PROVIDE NEW LOCAL CONTROL PANEL LCP-M540 FOR EXISTING SUMP PUMPS SP1 AND SP2. UTILIZE EXISTING TRAY TO ROUTE CABLING.
- (2) PROVIDE NEW 60A RATED WELDING RECEPTACLE WITH INTEGRAL DISCONNECT SWITCH, RCPT-M720-1.
- (3) PROVIDE NEW CHILLED WATER PUMPS P-M641 & P-M642 ASSOCIATED WITH THE NEW CHILLER CHLR-M640. PUMPS TO BE FED FROM NEW MCC-M710. PROVIDE DISCONNECT SWITCHES FOR EACH PUMP. MOUNT SWITCH ON THE WALL. PUMPS TO BE PROVIDED BY MECHANICAL CONTRACTOR.
- (4) PROVIDE NEW 30A RATED, NON-FUSIBLE, DISCONNECT SWITCH, DS-SP1, DS-SP2, DS-AC1 & DS-AC2.
- (5) PROVIDE NEW LOCAL CONTROL PANEL LCP-M500 FOR AIR COMPRESSORS AC1 AND AC2.
- (6) PROVIDE NEW CHILLER INDOOR UNIT, CHLR-M640. PROVIDE DISCONNECT DS-M640-1 AT UNIT. PROVIDE COMMUNICATION CABLING BETWEEN CHILLER CHLR-M640 AND CONDENSER CDR-M640 AS PER MANUFACTURERS REQUIREMENTS. CHILLER PROVIDED BY MECHANICAL CONTRACTOR.
- (7) PROVIDE NEW 480V PANELBOARD DP-M640 DIRECTLY BELOW STAIRWELL. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES.



1-0640M-A0049	INSTRUMENTATION PLAN, PUMPHOUSE, LOWER LEVEL
1-0640M-A0036	ELECTRICAL SINGLE LINE DIAGRAM MCC-M730E
1-0640M-A0035	ELECTRICAL PANEL LAYOUT, MCC-M720 LAYOUT & SCHEDULE
DRAWING NUMBER	REFERENCE DRAWINGS

00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE	KS
NO.	REVISIONS	DATE	DESIGN	CHECK

**SNC-LAVALIN INC.**  
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APPROVED BY: D. BECKER  
SCALE: 1 : 75  
ISSUED FOR CONSTRUCTION BY: A. WEISS  
DATE: 2019/04/15  
DATE: 2019/10/18

CONSULTANT NO.:

ENGINEER'S SEAL

021181  
2019

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION  
ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT  
ELECTRICAL EQUIPMENT PLAN  
LOWER LEVEL

CITY DRAWING NUMBER  
**1-0640M-E0041**

SHEET	REV.	SIZE
001	00	A1

1-0640M-E0041-001-00.0