

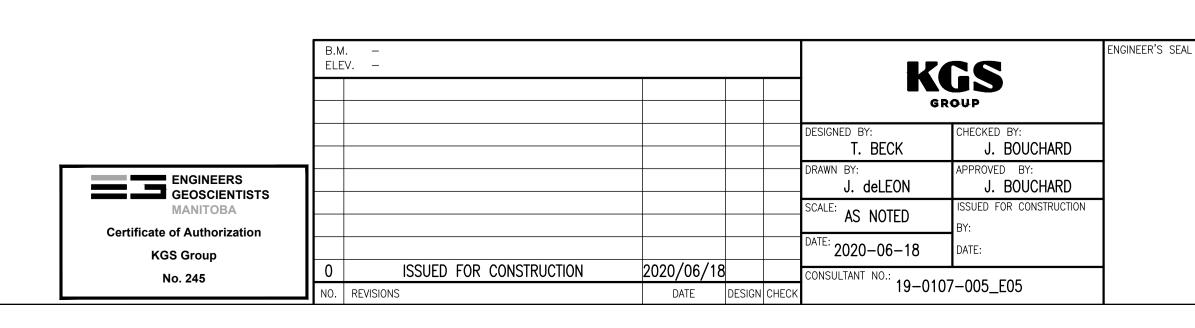




## NOTES:

- 1. GREY ITEMS DENOTES EXISTING EQUIPMENT, BOLD ITEMS DENOTES NEW EQUIPMENT.
- 2. PROVIDE AND INSTALL NEW 60A LOCAL DISCONNECT SWITCHES DS-AHU-1 AND DS-AHU-2 FOR EXISTING AIR HANDLING UNITS AHU-1 AND AHU-2 RESPECTIVELY. LOCATION OF DISCONNECT SWITCHES SHALL NOT CAUSE INTERFERENCE WITH THE ROOF RENOVATION WORKS. THE NEW LOCAL DISCONNECT SWITCHES DS-AHU-1 AND DS-AHU-2 SHALL BE ENCLOSED IN NEMA 4 RATED ENCLOSURES. ENSURE THAT THE EXISTING AIR HANDLING UNITS AHU-1 AND AHU-2 HAVE BEEN DISCONNECTED FROM THEIR RESPECTIVE CIRCUITS PRIOR TO TEMPORARY REMOVAL FOR ROOF RENOVATION WORKS.
- 3. UTILIZE THE EXISTING WIRING TO CONNECT THE NEW LOCAL DISCONNECT SWITCHES DS-AHU-1 AND DS-AHU-2 TO THE EXISTING MOTOR CONTROL CENTERS MCC-1 AND MCC-2 RESPECTIVELY. SUPPLY AND INSTALL NEW CABLES FROM THE NEW LOCAL DISCONNECT SWITCHES DS-AHU-1 AND DS-AHU-2 TO THE EXISTING AIR HANDLING UNITS AHU-1 AND AHU-2 RESPECTIVELY. SEE DRAWING 1-0650M-E0003-001.
- 4. POINT TO POINT COMMUNICATION DEVICE TO BE DISCONNECTED, REMOVED AND TURNED OVER TO THE CITY DURING ROOF RENOVATION WORKS.
- 5. EQUIPMENT TO REMAIN IN SERVICE FOR THE ENTIRE DURATION OF THE CONSTRUCTION.
- 6. COORDINATE THE DISCONNECTION OF THE EXISTING ROOF FANS EF-M1, EF-M2, AND EF-M3 WITH THE MECHANICAL DISCIPLINE.
- 7. SUPPLY AND INSTALL NEW 30A WEATHERPROOF, LOCKABLE, TOGGLE DISCONNECTS DS-EF-MI, DS-EF-M2, AND DS-EF-M3 MOUNTED ON THE ROOF CURB. THE NEW DISCONNECTS SHALL BE ENCLOSED IN NEMA 4 RATED ENCLOSURES. UTILIZE THE EXISTING WIRING TO CONNECT THE NEW DISCONNECTS DS-EF-MI, DS-EF-M2, AND DS-EF-M3 TO THE EXISTING MOTOR STARTERS MS-EF-M1, MS-EF-M2, AND MS-EF-M3 RESPECTIVELY. SUPPLY AND INSTALL NEW CABLES FROM THE NEW DISCONNECTS DS-EF-MI, DS-EF-M2, AND DS-EF-M3 TO THE EXISTING ROOF FANS EF-M1, EF-M2, AND EF-M3, RESPECTIVELY. SEE DRAWING 1-0650M-E0018-001.
- 8. SUPPLY AND INSTALL FOUR NEW DUPLEX CLASS A GFCI RECEPTACLES MOUNTED NOT LESS THAN 750MM ABOVE THE FINISHED ROOF. EACH RECEPTACLE SHALL BE FED FROM A SEPARATE CIRCUIT IN EXISTING PANEL PNL—A. UPDATE EXISTING PANEL PNL—A SCHEDULE ACCORDINGLY.
- 9. THE EXISTING ROOF FANS EF-M1, EF-M2, AND EF-M3 ARE CONNECTED TO THE EXISTING GAS DETECTION SYSTEM AND THEREFORE OPERATIONAL DOWNTIME MUST BE MINIMIZED. EF-M1, EF-M2, AND EF-M3 TO REMAIN OPERATIONAL THROUGHOUT PHASE 1 OF THE ROOF WORK. REMOVAL AND REINSTALLATION OF EF-M1, EF-M2, AND EF-M3 TO TAKE PLACE DURING PHASE 2 OF ROOF WORK AND TO BE COMPLETED EXPEDITIOUSLY.
- 10. COORDINATE THE DISCONNECTION OF THE EXISTING CONDENSING UNIT CU-1 (FED FROM PANEL PNL-E) WITH THE MECHANICAL DISCIPLINE. SUPPLY AND INSTALL NEW 20A WEATHERPROOF, LOCKABLE, TOGGLE DISCONNECT DS-CU-1 MOUNTED ON THE ROOF CURB. THE NEW DISCONNECT SHALL BE ENCLOSED IN A NEMA 4 RATED ENCLOSURE. RE-USE EXISTING CABLES FOR CONNECTION OF DS-CU-1. SUPPLY AND INSTALL NEW CABLES FROM DISCONNECT DS-CU-1 TO CONDENSING UNIT CU-1.
- 11. SUPPLY AND INSTALL NEW 20A WEATHERPROOF, LOCKABLE, TOGGLE DISCONNECT DS—FAN—1 MOUNTED ON THE ROOF CURB. THE NEW DISCONNECT SHALL BE ENCLOSED IN A NEMA 4 RATED ENCLOSURE. SUPPLY AND INSTALL NEW CABLE FROM CONTROL PANEL CP—C800 TO THE NEW DISCONNECT DS—FAN—1 AND FROM DS—FAN—1 TO THE EXISTING ROOF FAN FAN—1. REFER TO DRAWING 1—0650C—E0003—001 FOR WIRING DETAILS.
- 12. SUPPLY AND INSTALL NEW 20A WEATHERPROOF, LOCKABLE, TOGGLE DISCONNECT DS-EEF-1 MOUNTED ON THE ROOF CURB. THE NEW DISCONNECT SHALL BE ENCLOSED IN A NEMA 4 RATED ENCLOSURE. SUPPLY AND INSTALL NEW CABLES FROM NEW MOTOR STARTER MS-EEF-1 TO THE NEW DISCONNECT DS-EEF-1. SUPPLY AND INSTALL NEW CABLES FROM NEW DISCONNECT DS-EEF-1 TO EXISTING EXHAUST FAN EEF-1. REFER TO DRAWING 1-0650M-E0018-001 FOR WIRING DETAILS.
- 13. CONTRACTOR TO CONFIRM KA RATING OF BREAKER WITHIN MOTOR STARTER AND PROVIDE FUSES IF ABOVE 10kA.

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9	-	1
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7	-	1
6	1-0650M-E0023-001	ELECTRICAL - PUMP STATION MAIN AND PUMP LEVEL - POWER PLAN
5	1-0650M-E0018-001	ELECTRICAL - SINGLE LINE DIAGRAM - PNL-EE
4	1-0650M-E0003-001	ELECTRICAL - PUMP STATION - SINGLE LINE DIAGRAM
3	1-0650C-E0004-001	ELECTRICAL - PUMP STATION - MS-EEF-1 SCHEMATIC AND CONNECTION DIAGRAM
2	1-0650C-E0003-001	ELECTRICAL - PUMP STATION - CP-C800 SCHEMATIC AND CONNECTION DIAGRAM
1	1-0650A-D0001-001	COVER SHEET
NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
REFERENCE DRAWINGS		



Winnipeg THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT

HURST PUMPING STATION
STRUCTURAL REPAIRS AND DRAINAGE BUILDING UPGRADES
ELECTRICAL
PUMP STATION ROOF

PUMP STATION ROOF POWER PLAN

CITY DRAWING NUMBER SHEET | SHEET | 1-0650M-E0024 | 001 |