



**HVAC ROOF PLAN - DEMOLITION**  
SCALE: 1:100

**GENERAL NOTES:**

1. REMOVAL OF THE ROOFTOP HVAC EQUIPMENT AND DEMOLITION OF THE ASSOCIATED DUCTWORK AND PIPING SHALL BE COMPLETED AS PER THE INDICATED PHASE.
2. ENSURE ADEQUATE PRECAUTIONS ARE TAKEN DURING THE REMOVAL OF THE EXISTING ROOFTOP HVAC EQUIPMENT TO PREVENT DAMAGE TO THE EQUIPMENT.
3. ALL EXISTING ROOFTOP HVAC EQUIPMENT SHALL BE RE-INSTALLED AFTER THE ASSOCIATED PHASE OF ROOFING WORK IS COMPLETED.
4. EXISTING ROOF PENETRATIONS SHALL BE TEMPORARY COVERED AFTER REMOVAL OF EXISTING HVAC EQUIPMENT AND DUCTWORK. ENSURE ALL EXISTING PENETRATIONS ARE SEALED WATER TIGHT DURING CONSTRUCTION PHASING OF ROOF REPAIR.

**DEMOLITION PHASING SEQUENCE:**

1. EACH PHASE SHALL BE CONSIDERED COMPLETE ONCE THE EXISTING ROOFTOP HVAC EQUIPMENT HAS BEEN RE-INSTALLED, COMMISSIONED, AND TESTED.
2. REFER TO DRAWING 1-0650M-E0023-001 AND DRAWING 1-0650M-E0024-001 FOR THE RELATED ELECTRICAL SCOPE AND THE INSTALLATION OF THE NEW DISCONNECT SWITCHES.
3. PHASE 2 DEMOLITION SHALL PROCEED ONLY WHEN ALL OF PHASE 1 WORK HAS BEEN APPROVED BY THE CONTRACT ADMINISTRATOR.

**KEYNOTES:**

- 1 DISCONNECT THE EXISTING DUCTWORK FROM THE EXISTING ROOF FAN EEF-1, FAN-1, EF-M1, EF-M2, EF-M3, AND EXISTING ROOFTOP AIR INTAKE GOOSENECK DUCT. REMOVE AND DISPOSE OF THE EXISTING EXTERIOR DUCTWORK AND EXISTING ROOFTOP AIR INTAKE GOOSENECK DUCT. THE PAINT ON THE EXISTING EXTERIOR DUCTWORK, AIR INTAKE GOOSENECK DUCT, FAN-1, EF-M1, EF-M2, AND EF-M3 CONTAINS LEAD. DISPOSE OF EXISTING EXTERIOR DUCTWORK AND AIR INTAKE GOOSENECK DUCT AS PER ENVIRONMENTAL REGULATION REQUIREMENTS FOR LEAD. RETAIN INTERIOR DUCTWORK. REMOVE THE EXISTING FANS EF-M1, EF-M2, EF-M3, AND FAN-1 AND SURFACE PREP AND PAINT TO MATCH THE EXISTING COLOR. RETAIN ALL ROOFTOP FANS AND STORE THEM ONSITE IN A SECURE AREA.
- 2 REMOVE AND DISPOSE OF THE EXISTING INTERIOR AND EXTERIOR DUCTWORK.
- 3 DISCONNECT THE EXISTING DUCTWORK FROM EXISTING ROOFTOP AIR HANDLING UNITS AHU-1 AND AHU-2. REMOVE AND DISPOSE OF THE EXISTING EXTERIOR DUCTWORK. RETAIN THE EXISTING AIR HANDLING UNITS AND STORE THEM ON SITE IN A SECURE AREA.
- 4 REMOVE AND DISPOSE OF THE EXISTING SUPPLY AND RETURN DUCTWORK AND ASSOCIATED SUPPORTS FROM THE EXISTING ROOFTOP AIR HANDLING UNITS AHU-1 AND AHU-2. FIELD VERIFY THE DIMENSIONS OF THE EXISTING DUCTWORK PRIOR TO REMOVAL TO ENSURE THAT THE NEW DUCTWORK TO BE FABRICATED MATCHES THE EXISTING DUCTWORK DIMENSIONS. PRIOR TO DEMOLISHING EXISTING DUCTWORK AND CHILLED WATER PIPING CONDUCT TAB TO CONFIRM FLOW RATES, PRESSURES, POWER REQUIREMENTS OF THE EXISTING INSTALLATION. SUBMIT A TAB REPORT OF THE FINDINGS TO THE CONTRACT ADMINISTRATOR.
- 5 THE EXISTING VENT STACKS FOR THE EXISTING NATURAL GAS GENERATORS TO BE RETAINED AND TO REMAIN OPERATIONAL DURING BOTH PHASES OF THE ROOF WORK. REFER TO DRAWING 1-0650M-S0002-001 (SECTION-F) FOR FLASHING DETAILS OF THE EXISTING GENERATOR EXHAUST VENTS.
- 6 REMOVE THE EXISTING CONDENSING UNIT CU-1 AND STORE IT ON SITE IN A SECURE AREA. REFRIGERANT TO BE PUMPED OUT AND RETURNED TO THE CITY.
- 7 REMOVE AND DISPOSE OF THE EXISTING EXTERIOR DUCTWORK. RETAIN THE EXISTING INTERIOR DUCTWORK.
- 8 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.

**LEGEND:**

- EXISTING EQUIPMENT TO BE REMOVED AND RE-INSTALLED
- ▨ EXISTING EQUIPMENT AND DUCTWORK TO BE REMOVED AND DISPOSED

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9	-	-
8	-	-
7	-	-
6	-	-
5	-	-
4	1-0650M-M0005-001	MECHANICAL - PUMP STATION ROOF - HVAC PLAN - NEW
3	1-0650M-E0021-001	ELECTRICAL - PUMP STATION SINGLE LINE DIAGRAM
2	1-0650M-E0024-001	ELECTRICAL - PUMP STATION ROOF POWER PLAN
1	1-0650A-D0001-001	COVER SHEET
NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE

**ENGINEERS**  
GEOSCIENTISTS  
MANITOBA

Certificate of Authorization  
KGS Group  
No. 245

B.M.	-
ELEV.	-
0	ISSUED FOR CONSTRUCTION
NO.	REVISIONS
2020/06/18	CPH RCC
DATE	DESIGN CHECK

**KGS GROUP**

DESIGNED BY: C. HOLBROOK  
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DATE: 2020-06-18

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ISSUED FOR CONSTRUCTION BY:  
DATE:

CONSULTANT NO.: 19-0107-005\_M13

ENGINEER'S SEAL

PROVINCE OF MANITOBA  
C.P. HOLBROOK  
Member  
43309  
2020-06-19  
REGISTERED PROFESSIONAL ENGINEER

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

HURST PUMPING STATION  
STRUCTURAL REPAIRS AND DRAINAGE BUILDING UPGRADES  
MECHANICAL  
PUMP STATION ROOF  
HVAC PLAN - DEMOLITION

CITY DRAWING NUMBER: 1-0650M-M0004  
SHEET: 001  
REV.: 0  
SIZE: A1