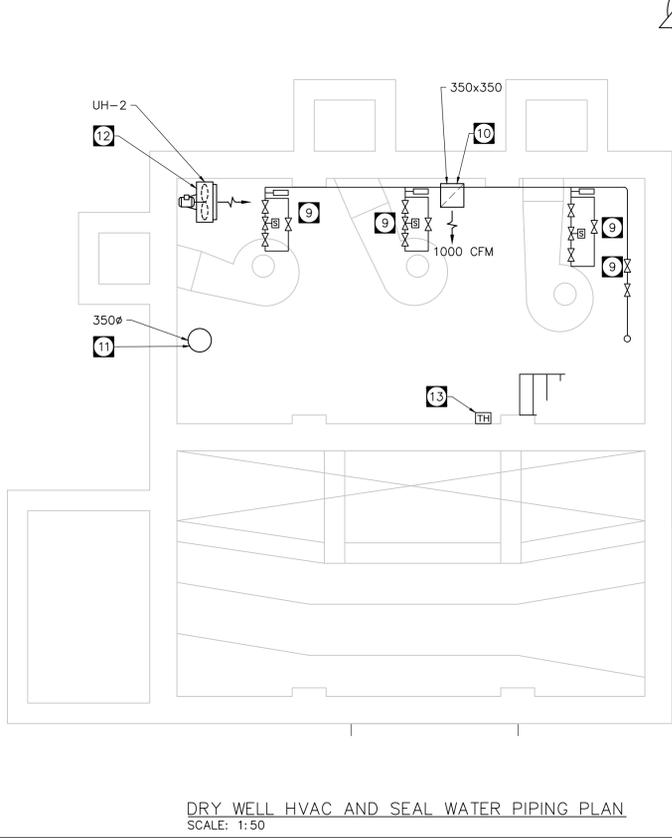


- DRAWING NOTES:**
- 1 PROVIDE 50mm THICK DUCT INSULATION FROM INLET TO DUCT HEATER MOUNT LOUVER AT HIGH LEVEL
 - 2 MOUNT THE FAN AT HIGH LEVEL
 - 3 REFER TO SEAL WATER NEW CONSTRUCTION SCHEMATIC DIAGRAM AND SECTION 1 ON DRAWING M-02
 - 4 SUPPLY DUCT DROPS DOWN TO DRY WELL REFER TO SECTION FOR DETAILS
 - 5 EXHAUST DUCT UP FROM DRYWELL, CORE 350x350 HOLE THROUGH FLOOR TO ACCOMMODATE DUCT. CAULK AND SEAL GAPS
 - 6 MAKE UP AIR UNIT, MUA-1, SUSPENDED AT HIGH LEVEL FROM STRUCTURE
 - 7 MOUNT THERMOSTATS ON WALL AT 1500mm ABOVE FLOOR C/W INSULATION PAD. SET HEATING THERMOSTAT AT 12°C AND VENTILATION THERMOSTAT AT 35°C
 - 8 SEAL WATER PIPING, BACKFLOW PREVENTION VALVE, FLOW METER AND ACCESSORIES TO BE MOUNTED ON AN INSULATION PAD
 - 9 REFER TO SEAL WATER NEW CONSTRUCTION SCHEMATIC DIAGRAM ON DRAWING M-02
 - 10 TERMINATE SUPPLY DUCT AT 300mm ABOVE SEAL PIPING
 - 11 EXHAUST DUCT FROM THE MAIN FLOOR. TERMINATE DUCT 500mm ABOVE FINISH FLOOR
 - 12 MOUNT UH-2 ON WALL 1800mm ABOVE FINISH FLOOR
 - 13 MOUNT THERMOSTATS ON WALL AT 1500MM ABOVE FLOOR C/W INSULATION PAD. SET HEATING THERMOSTAT AT 12°C
 - 14 PROVIDE 50mm THICK DUCT INSULATION



- GENERAL NOTES:**
1. EQUIPMENT LOCATIONS AND DUCT, ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE. CONFIRM IN THE FIELD. REROUTE DUCTWORK AS REQUIRED TO ELIMINATE FIELD INTERFERENCES WITH BUILDING STRUCTURES, ELECTRICAL, ETC.
 2. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT AND DUCTWORKS FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
 3. EQUIPMENT NOTED ON THIS DRAWING IS IDENTIFIED BY TRADE NAME TO INDICATE MINIMUM ACCEPTABLE QUALITY.
 4. INSULATE ALL DUCTWORK AS INDICATED IN ACCORDANCE WITH SPECIFICATIONS. ALL PENETRATIONS AND DUCTWORK TO BE SEALED WATER, AIR AND WEATHER TIGHT.
 5. MOUNT ALL FANS ON VIBRATION ISOLATORS.
 6. CONTRACTOR TO COORDINATE ALL LOUVER HEIGHTS WITH STRUCTURAL/ARCHITECTURAL DRAWINGS.
 7. INSTALL PLUMBING AND SEAL WATER SYSTEMS IN STRICT ACCORDANCE WITH THE NATIONAL PLUMBING CODE AND TO THE REQUIREMENTS OF THE LOCAL AUTHORITIES.
- BACKFLOW PREVENTER:**
- WATTS LF09M2-QT-909-AGC-LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY.
- SOLENOID VALVE:**
- ASCO SERIES B210 2-WAY VALVE, 304 STAINLESS STEEL BODY, 9mm NPT, PTFE SEALS AND DISCS, 302 STAINLESS STEEL SPRING, 120 VOLTS AC.
- DESIGN CRITERIA:**
- FAN COOLING SYSTEM HAS BEEN DESIGNED TO COOL THE PUMP MOTORS WHEN THE COOLING SYSTEM THERMOSTAT READS INDOOR AIR TEMPERATURE 35°C. THE COOLING FAN WILL PROVIDE 3465 L/S FOR THE DURATION REQUIRED TO COOL THE PUMP MOTORS TO BELOW 35°C.
- THE VENTILATION SYSTEM HAS BEEN DESIGNED TO THE REQUIREMENTS OF NFPA 820 AT A MINIMUM 6 AIR CHANGES PER HOUR CONTINUOUS POSITIVE VENTILATION WHEN THE STATION IS EITHER OCCUPIED OR THE HAZARDOUS GAS SENSORS READ LFL LARGER THAN 10. WHEN THE STATION IS UNOCCUPIED, THE SYSTEM WILL PROVIDE 3 AIR CHANGES PER HOUR CONTINUOUS. AIR PROVIDED WILL BE TEMPERED TO BELOW 10°C BY THE DUCT HEATER.
- WETWELL ROOM WILL BE VENTILATION AT 6 AIR CHANGES PER HOUR NEGATIVE PRESSURE VENTILATION WHEN OCCUPIED. THE SUPPLY FAN WILL BE TRIGGERED BY THE LIGHT SWITCH.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

- 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/C STRUCTURES COMMITTEE	DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY
3	ISSUED FOR TENDER	2019 05 31	CT
2	ISSUED FOR 99% REVIEW	2019 05 09	CT
1	ISSUED FOR 66% REVIEW	2019 04 17	CT

NEEGAN BURNSIDE

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Web www.neeganburnside.com

DESIGNED BY	AA	CHECKED BY	AA
DRAWN BY	CT	APPROVED BY	
SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION	
DATE	2019 05 30	DATE	
PLOT DATE:	2019 05 30	CONTRACT NUMBER:	X

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER

M-01

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

MISSION FPS UPGRADES

MECHANICAL DEMOLITION AND NEW CONSTRUCTION PLANS

SHEET OF

CITY DRAWING NUMBER

1-0163F-M0001-001