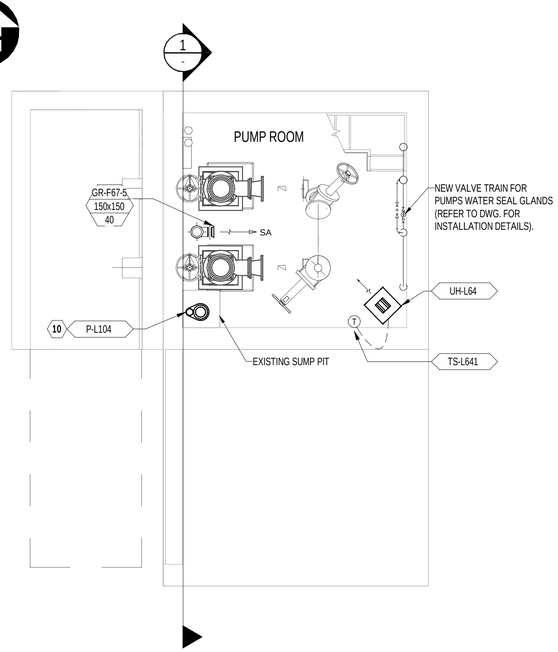
A1 SIZE - 594mm x 847mm

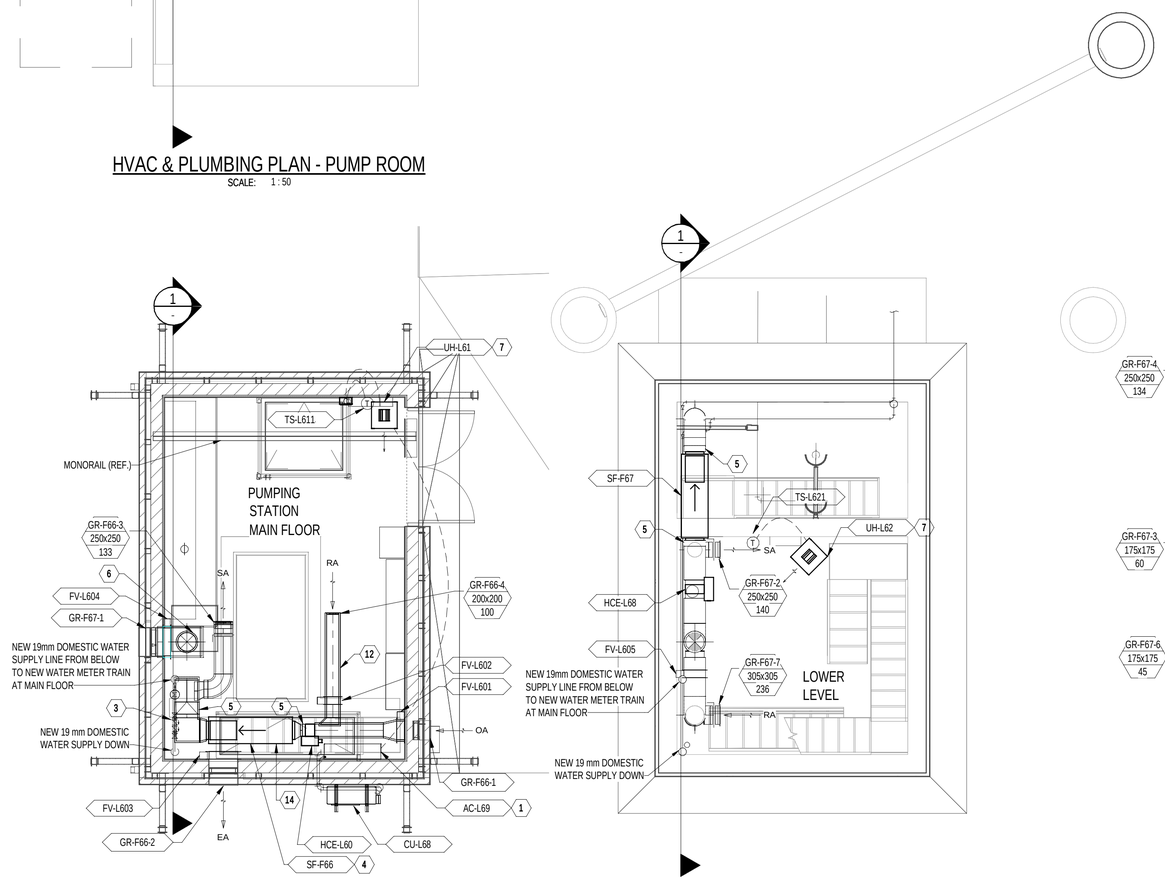


HVAC & PLUMBING PLAN - PUMP ROOM

SCALE: 1 : 50

DRAWING KEYNOTES	
1	INSTALL INDOOR AC UNIT WALL MOUNTED BELOW SA DUCTWORK. PLUMB CONDENSATE DRAIN LINE DOWN TO COMMINUTOR CHAMBER SUMP PIT FOR INDIRECT DISCHARGE (MAINTAINING AIR GAP). CONDENSATE DRAIN IS NOT SHOWN FOR CLARITY.
2	INSTALL OUTDOOR AC UNIT AT EXTERIOR WALL, USING WALL MOUNTED BRACKET, MINIMUM 1m ABOVE GOUND.
3	PLUMB DOMESTIC WATER BACKFLOW PREVENTER DRAIN LINE DOWN TO COMMINUTOR CHAMBER SUMP PIT FOR INDIRECT DISCHARGE (MAINTAINING AIR GAP). DRAIN LINE IS NOT SHOWN FOR CLARITY.
4	SUPPLY FAN SF-F66 WITH RIGHT DISCHARGE CONFIGURATUION (REFER TO SCHEDULE). THE FAN MOTOR MOUNTING TO BE BOTTOM ORIENTED
5	FLEXIBLE DUCT.
6	305mm DIA AIR SUPPLY DUCT TO SPACES BELOW.

DRAWING KEYNOTES	
7	INSTALL UNIT HEATER AT 2400 AFF.
8	DOMESTIC WATER METER TRAIN (REFER TO INSTALLATION DETAIL DRAWING).
9	REMAINNING SECTION OF 250 DIA PIPE.
10	NEW SUMP PUMP C/W CONTROLS (REFER TO EQUIPMENT SCHEDULE). RE-PLUMB PORTION OF DISCHARGE PIPING TO REQUIRED LIMITS AFTER EXISTING PIPING CONDITION ASSESSMENT.
11	NEW PORTION OF 19mm DIA DOMESTIC WATER SUPPLY TO NEW FLOW METER TRAIN AT MAIN FLOOR AND BACK TO DRY WELL SPACES. FIELD TO DETERMINE THE MOST PRACTICAL ROUTE.
12	50mm THICK DUCT THERMAL INSULATION WITHIN MAIN FLOOR LIMITS.
13	INSTALL E/A LOUVER AND DAMPER BELOW S/A DUCTWORK TO CLEAR AIR PATH MOVEMENT AND MAINTANANCE ACCESS.
14	S/A FILTER BOX.



HVAC & PLUMBING PLAN - MAIN FLOOR

SCALE: 1 : 50

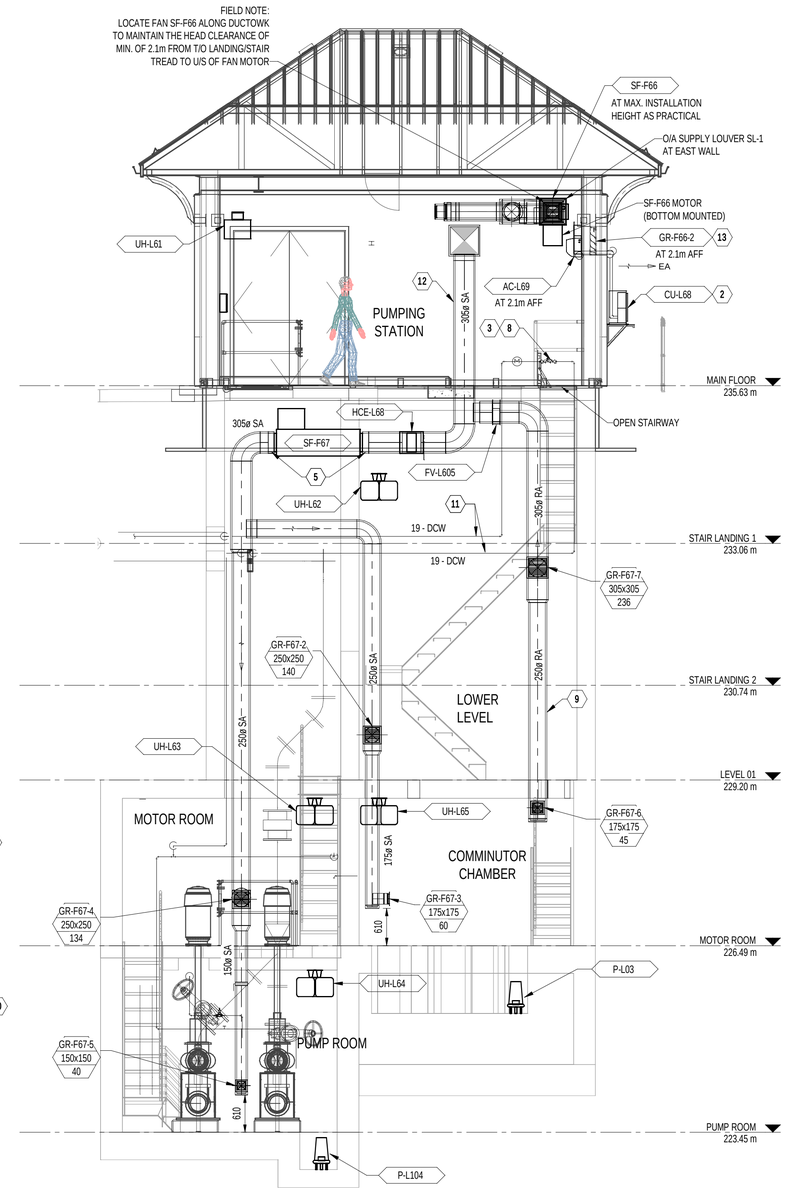
REFERENCE NOTE: REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF HVAC CONTROL PANEL

HVAC & PLUMBING PLAN - LOWER LEVEL

SCALE: 1 : 50

HVAC & PLUMBING PLAN - MOTOR ROOM & COMMINUTOR CHAMBER

SCALE: 1 : 50



1 SECTION

SCALE: 1 : 50

DRAWING NUMBER	REFERENCE DRAWINGS
1-0178L-P0001	PROCESS AND INSTRUMENTATION DIAGRAM HVAC SYSTEM FLOW
1-0178L-M0006	MECHANICAL DETAILS AND GENERAL NOTES HVAC AND PLUMBING
1-0178L-M0010	MECHANICAL EQUIPMENT SCHEDULES HVAC AND PLUMBING
1-0178L-M0011	MECHANICAL EQUIPMENT SCHEDULES HVAC AND PLUMBING

NOT FOR CONSTRUCTION

ISSUED FOR TENDER

1.0m 500 0 1.0m 2.0m

SCALE: 1:50

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: 21.07.2023

NO.	REVISIONS	DATE	DESIGN	CHECK
0	ISSUED FOR TENDER	2023/07/20	SA	BLM

DILLON CONSULTING

DESIGNED BY: SA	CHECKED BY: BLM
DRAWN BY: HL	APPROVED BY: BLM
SCALE: 1 : 50	RELEASED FOR CONSTRUCTION BY:
DATE: JUL. 2023	DATE:
CONSULTANT NO: 22-3229	

ENGINEER'S SEAL

PROVINCE OF MANITOBA
W. AFANASEV
Member
32647
REGISTERED PROFESSIONAL ENGINEER
21.07.2023
Rev. 0

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

RIVERBEND LIFT PUMPING STATION
2023 UPGRADES
MECHANICAL PLAN LAYOUT AND SECTIONS
HVAC AND PLUMBING

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0178L-M0005	001	0	A1

DILLON CONSULTING LIMITED 1558 WILLSON PLACE, WINNIPEG, MANITOBA, R3T 0Y4, PHONE (204) 453-2301, FAX (204) 452-4412

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