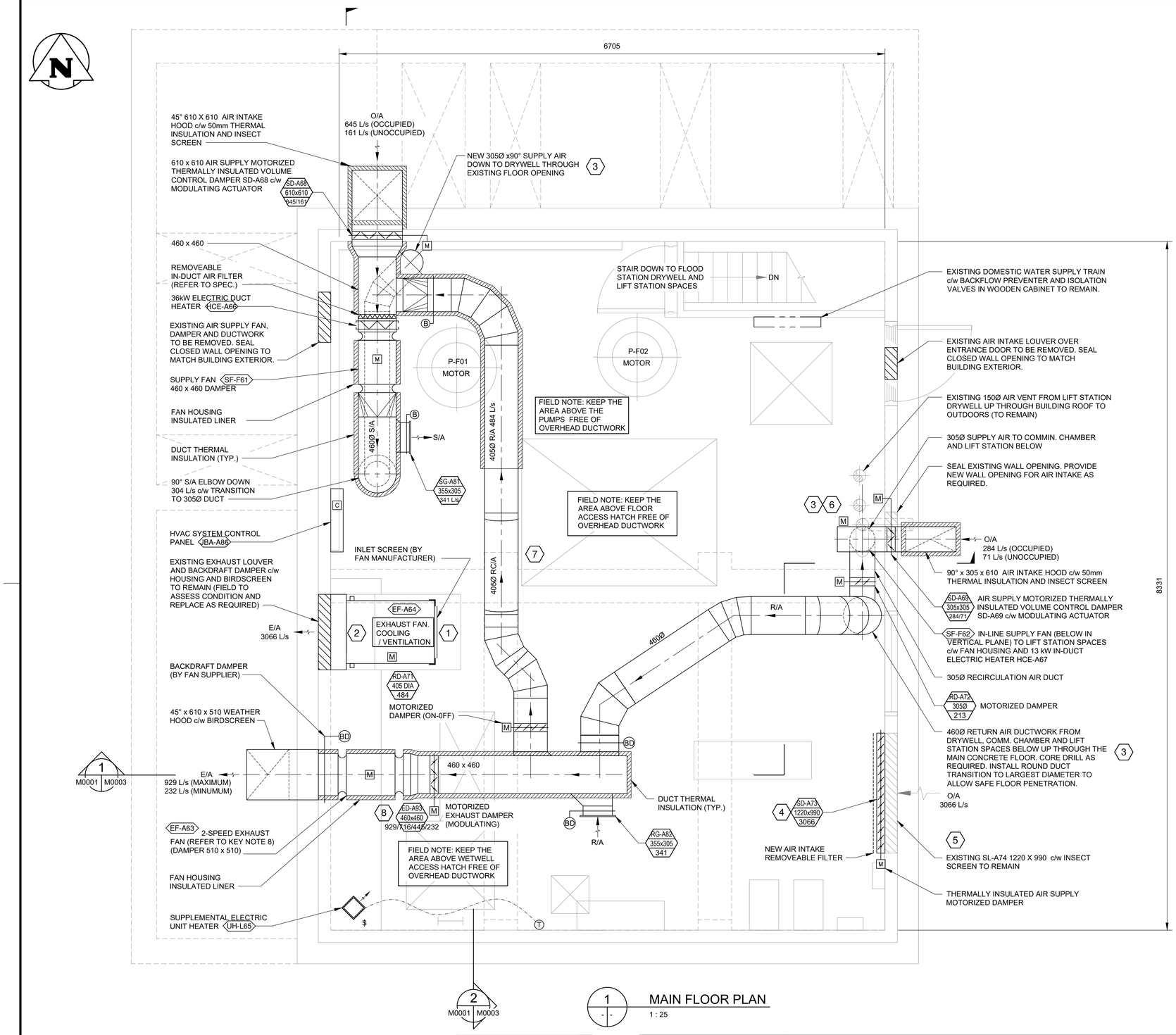

DRAWING KEY NOTES:

1. MODIFY EXISTING STRUCTURAL SUPPORT FRAME AS REQUIRED TO SUIT THE NEW COOLING FAN SUPPORT.
2. AFTER REMOVAL OF EXISTING COOLING FAN, MODIFY EXISTING DAMPER HOUSING AS REQUIRED TO ACCOMMODATE NEW COOLING FAN DISCHARGE SIZE OF 762mm DIA.
3. CORE A FLOOR PENETRATION AS LARGE AS POSSIBLE TO ACCOMMODATE INSTALLATION OF NEW ROUND DUCT. INSTALL DUCT SIZE REDUCER / INCREASER AS REQUIRED ON EACH SIDE OF THE CONCRETE FLOOR.
4. FIELD CONFIRM AIR INTAKE DAMPER SIZE PRIOR TO ORDERING AND INSTALLATION, AFTER PLYWOOD SHEET IS REMOVED AS PART OF DEMOLITION WORK.
5. FIELD ASSESS EXISTING AIR INTAKE LOUVER AND INSECT SCREEN TO ENSURE SATISFACTORY CONDITION. INSTALL NEW LOUVER AND INSECT SCREEN IN-KIND IF REQUIRED.
6. FIELD TO DETERMINE IF PRACTICAL TO UTILIZE EXISTING FLOOR ROUND OPENINGS FOR NEW DUCTWORK ALLOWING INCREASE IN SIZE. IF EXISTING OPENINGS ARE NOT SUITABLE FOR NEW DUCT CONFIGURATION AND EQUIPMENT LOCATION, UNUSED FLOOR OPENINGS SHALL BE SAFELY COVERED AND SEALED.
7. LOCATE PORTIONS OF RETURN AIR DISCHARGE AS HIGH AS PRACTICAL CLOSE TO CEILING LEVEL TO CLEAR WITH AIR MOVEMENT PATH THROUGH COOLING FAN EF-A64.
8. MOTORIZED EXHAUST DAMPER ED-A93 MODULATES EXHAUST AIR FLOW PER FOLLOWING:
   1. MAIN FLOOR HAND LIGHT SWITCH (HS) IS "ON" (OCCUPIED), COMM. CHAMBER (HS) IS "ON" (OCCUPIED): DAMPER IS FULLY OPEN, EXHAUST FAN EF-A63 RUNS AT HIGH SPEED;
   2. MAIN FLOOR (HS) IS "ON" (OCCUPIED), COMM. CHAMBER (HS) IS "OFF" (UNOCCUPIED): DAMPER IS PARTIALLY OPEN, EXHAUST FAN EF-A63 RUNS AT HIGH SPEED;
   3. MAIN FLOOR (HS) IS "OFF" (UNOCCUPIED), COMM. CHAMBER (HS) IS "ON" (OCCUPIED): DAMPER IS FULLY OPEN, EXHAUST FAN EF-A63 RUNS AT LOW SPEED.
   4. MAIN FLOOR (HS) IS "OFF" (UNOCCUPIED), COMM. CHAMBER (HS) IS "OFF" (UNOCCUPIED): DAMPER IS PARTIALLY OPEN, EXHAUST FAN EF-A63 RUNS AT LOW SPEED.

NDOOR DESIGN CONDITIONS (VENTILATION / T° CONTROL)				
AREA	OCCUPIED (ACH / T°)		UNOCCUPIED (ACH / T°)	
	SUMMER	WINTER	SUMMER	WINTER
MAIN FLOOR	6 / 30°C	6 / 20°C	1.5 / 30°C	1.5 / 10°C
FS - DRYWELL	6 / N.C.	6 / 10°C	1.5 / N.C.	1.5 / 10°C
COMM. CHAMBER	6 / N.C.	6 / 10°C	1.5 / N.C.	1.5 / 10°C
LS - MOTOR ROOM	6 / N.C.	6 / 10°C	1.5 / N.C.	1.5 / 10°C
LS - DRYWELL	6 / N.C.	6 / 10°C	1.5 / N.C.	1.5 / 10°C
HUMIDITY	NOT CONTROLLED (N.C.)			

DRAWING NOTES:

1. REFER TO DWG. P0005 FOR HVAC SYSTEM SCHEMATIC FLOW DIAGRAM.
2. PRIOR TO CONSTRUCTION AND INSTALLATION OF EQUIPMENT, THE CONTRACTOR SHALL DETERMINE THE MOST SUITABLE LOCATION OF FLOOR PENETRATIONS AND EQUIPMENT LOCATION IN ORDER TO AVOID ALL EXISTING RESTRICTIONS AND MAINTAIN ACCESS / MAINTENANCE CLEARANCE TO EXISTING EQUIPMENT.
3. THE AREA ABOVE ALL EXISTING FLOOR OPENINGS REQUIRED FOR LIFTING OF EQUIPMENT FROM LOWER LEVEL SHALL REMAIN CLEAR AND UNOBSTRUCTED.

1 / - - MAIN FLOOR PLAN
1 : 25

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Tetra Tech Canada Inc.
No. 6499

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NO.	REVISIONS	DATE	BY
00	ISSUED FOR TENDER	21.08.26	DD

B.M. ELEV. F.B.

TETRA TECH

DESIGNED BY	SA	CHECKED BY	SA
DRAWN BY	DD	APPROVED BY	CM
HOR. SCALE: VERTICAL:	AS NOTED	RELEASED FOR CONSTRUCTION	
DATE		DATE	

PROVINCE OF MANITOBA W. AFANASEV Member 32647 REGISTERED PROFESSIONAL ENGINEER
Rev. 00
2021-08-26
CONSULTANT DRAWING NO.
734-2100120600-DWG-M0001

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

LINDEN LIFT AND FLOOD PUMPING STATION UPGRADES
MECHANICAL
HVAC AND PLUMBING GENERAL ARRANGEMENT PLAN AT MAIN FLOOR

CITY DRAWING NUMBER 1-0155L-M0002-001
SHEET 9 OF 50
M0001

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