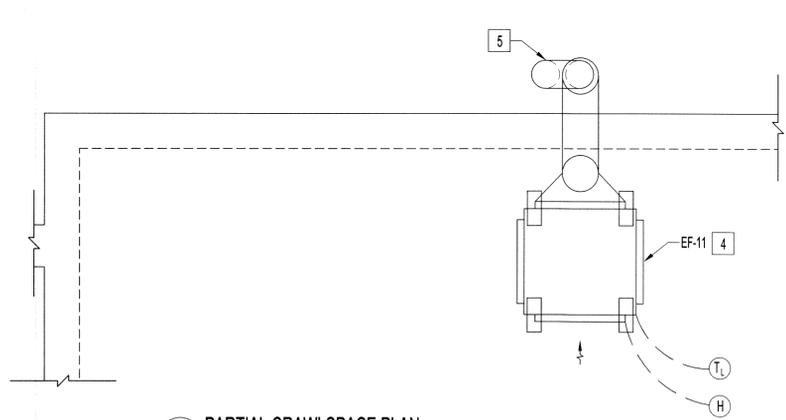
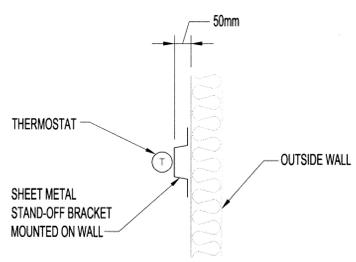


1 MAIN FLOOR - HEATING AND VENTILATION PLAN
M2 SCALE 1:50



2 PARTIAL CRAWLSPACE PLAN
M2 SCALE 1:25



A THERMOSTAT MOUNTING DETAIL
SCALE 1: N.T.S.

HEATING & VENTILATION NOTES:

- 1 PROVIDE SUITABLY SIZED AIRVAC 911 ENGINE EXHAUST REMOVAL SYSTEM HUNG FROM CEILING FOR ADDITION. ENSURE ELEVATION OF BOTTOM OF UNIT MATCHES ELEVATION OF TOP OF OVERHEAD DOOR OPENING TO ENSURE VEHICLE CLEARANCE. COORDINATE LOCATION WITH VENDOR, CONTRACT ADMINISTRATOR, AND CEILING MOUNTED EQUIPMENT TO PREVENT INTERFERENCE WITH VEHICLES, OVERHEAD DOORS, LIGHTING, AND WITH AIRFLOW FROM UNIT HEATERS, ETC. REFER TO SPECIFICATIONS ON M4 FOR DETAILS.
- 2 NEW UNIT HEATER INSTALLED AT HIGH LEVEL. RUN VERTICAL COMBUSTION AIRVENT THROUGH ROOF. INSTALL AS PER MANUFACTURER'S PRINTED INSTRUCTIONS. ENSURE COMBUSTION AIR INLET IS INSTALLED AT LEAST 750mm ABOVE ROOF LINE TO CLEAR ANTICIPATED SNOW DEPTH. SEAL PENETRATIONS WEATHER-TIGHT. SUSPEND UNIT HEATER FROM CEILING JOISTS VIA THREADED RODS. POSITION UNIT HEATER SUCH THAT OVERHEAD DOOR IN OPENED POSITION DOES NOT IMPEDE UNIT HEATER AIRFLOW THROW.
- 3 200mm X 200mm OPENING IN ACCESS HATCH FOR AIRFLOW INTO CRAWLSPACE.
- 4 NEW CRAWLSPACE EXHAUST FAN HUNG FROM FLOOR SLAB. PROVIDE VIBRATION HANGER ISOLATORS AND FLEXIBLE DUCT CONNECTORS. CONNECT DISCHARGE OF EF-11 TO 200mmØ PVC VENT PIPE.
- 5 200mmØ PVC CRAWLSPACE VENT PIPE. SEE DETAIL 2 ON DRAWINGS M2 AND A6.
- 6 HAND-OFF-AUTO SWITCH AND SPEED CONTROLLER FOR EF-11.
- 7 INSTALL AT HIGH LEVEL. INTERLOCK MD-1 AND MD-2 WITH EF-10. REFER TO SEQUENCES OF OPERATION ON DWG. M4.
- 8 MOUNT APPROX. 300mm ABOVE DOOR FRAME.
- 9 EXISTING EXHAUST STACK AND FAN TO REMAIN. PROVIDE OPENING IN ROOF OF ADDITION TO ACCOMMODATE EXHAUST STACK. MAKE PENETRATION WEATHER-TIGHT. COORDINATE WITH ARCHITECT.
- 10 RELOCATE EXISTING THERMOSTAT.
- 11 PROVIDE SHEET METAL STANDOFF BRACKET WITH AIR GAP TO MOUNT THERMOSTAT TO. REFER TO DETAIL A.
- 12 MOUNT THERMOSTAT APPROX. 1500 mm ABOVE FINISHED FLOOR LEVEL.
- 13 AIRVAC 911 AVEC CONTROL PANEL AND E3 CO / NOx DETECTOR

HEATING & VENTILATING SYMBOLS	
SYMBOL	DESCRIPTION
	MOTORIZED DAMPER
	LOUVER
	AIRFLOW DIRECTION
	CONTROL WIRING
	THERMOSTAT
	DEHUMIDISTAT
	LOW LIMIT THERMOSTAT
	CEILING FAN
	UNIT HEATER

0	ISSUED FOR CONSTRUCTION	DJ	APR 13 2015
No.	REVISION/DESCRIPTION	BY	DATE

SEAL

2015-Apr-13

DRAWN	CHECKED	DESIGNED	APPROVED
DATE 2014.11.20	USER	APPROVAL	

THE CITY OF WINNIPEG
PLANNING, PROPERTY AND
DEVELOPMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
WINNIPEG FIRE PARAMEDIC SERVICES
ADDITIONAL APPARATUS ROOM BAYS

KGS GROUP
CONSULTING ENGINEERS

APEGN
Certificate of Authorization
KGS Group
No. 245

603 REDWOOD AVENUE		
SHEET TITLE ADDITION HEATING & VENTILATION PLAN		
SCALE AS SHOWN	PROJECT No: 2013-171-02	SHEET No: M2