

GENERAL DRAWING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CURRENT VERSIONS OF THE MANITOBA BUILDING CODE, MANITOBA PLUMBING CODE, MANITOBA FIRE CODE, CSA B149.1 NATURAL GAS AND PROPANE INSTALLATION CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, APPLICABLE CODES, REGULATIONS, AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH STRUCTURAL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
4. COORDINATE ALL LOUVER AND EXHAUST FAN OPENINGS WITH ELECTRICAL EQUIPMENT LOCATIONS.
5. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
6. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
7. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE CURRENT CANADIAN ELECTRIC CODE REQUIREMENTS AND THE SPECIFICATION.
8. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE ACCEPTANCE OF THE CONTRACT ADMINISTRATOR BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
9. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM ANY METAL DECKS OR ROOF STRUCTURE.
10. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
11. ALL OPENINGS/PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRESTOPPED AS SPECIFIED.
12. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CITY.
13. ALL REDUNDANT PIPE, ELECTRICAL CONDUIT, WIRE AND EQUIPMENT SHALL BE REMOVED IN A CLEAN MANNER.
14. TESTING AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC). TESTING, ADJUSTING AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARD.
15. THE TAB CONTRACTOR SHALL SET AIR DIFFUSER DEFLECTION BLADES TO UNIFORMLY DISTRIBUTE AIR FLOW.
16. ALL MECHANICAL EQUIPMENT SHALL BE COMMISSIONED BY FACTORY AUTHORIZED AGENTS OR REPRESENTATIVES.

17. ALL ELECTRIC CONTROL COMPONENTS, EQUIPMENT AND WIRING REQUIRED TO ACHIEVE ALL INDICATED CONTROL SEQUENCES AND RESULT IN A FULLY OPERATIONAL SYSTEM SHALL BE PROVIDED BY THE MECHANICAL SUBCONTRACTOR. THE MECHANICAL SUBCONTRACTOR SHALL PROVIDE ALL DAMPERS, DAMPER MOTORS, PRESSURE SENSORS, THERMOSTATS AND PRESSURE SWITCHES, UNLESS INDICATED OTHERWISE, AND COORDINATE ALL INSTALLATION REQUIREMENTS TO RESULT IN A FULLY OPERATIONAL SYSTEM. COORDINATE ALL INDICATED ELECTRICAL INTERLOCKS WITH ELECTRICAL SUBCONTRACTOR.
18. UNLESS OTHERWISE INDICATED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE BUT SUPPORTED FROM WALLS OR FLOORS WITH SPACE FOR INSULATION IF REQUIRED.
19. ALL DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INTERNAL CLEAR DIMENSIONS. DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS AND PROVISIONS MADE FOR ALL OPENINGS AND FIT REQUIRED FOR EXTERNAL INSULATION.
20. MATCH DAMPER MOTOR ELECTRICAL REQUIREMENTS TO FAN MOTOR STARTER OR ELECTRIC MOTOR CHARACTERISTICS. PROVIDE ELECTRIC TRANSFORMERS AND/OR DAMPER MOTORS TO SUIT WIRING ARRANGEMENT.
21. PROVIDE TEMPORARY PATCH AND SEAL FOR ALL WALL OR ROOF OPENINGS PLANNED FOR RE-USE OR NEW OPENINGS BEFORE EQUIPMENT IS INSTALLED AND FINALIZED.
22. ALL DEMOLISHED MATERIAL BEING REMOVED FROM THE PROJECT SHALL BE OFFERED TO THE CITY AND SHALL BE STORED AS DIRECTED. ALL DEMOLISHED MATERIALS NOT KEPT BY THE CITY SHALL BE TRANSPORTED FROM SITE AND DISPOSED OF OR RECYCLED IN ACCORDANCE TO PROVINCIAL REGULATIONS AND REQUIREMENTS, AS PART OF THE CONTRACTOR'S PROJECT COST.

LEGEND

-  RETURN AIR DUCT UP
 -  RETURN AIR DUCT DOWN
 -  SUPPLY AIR DUCT UP
 -  SUPPLY AIR DUCT DOWN
 -  EXHAUST AIR DUCT UP
 -  EXHAUST AIR DUCT DOWN
 -  NATURAL GAS PIPING
 -  ISOLATION VALVE
 -  FLOW ARROW
 -  CONTROL WIRING
 -  THERMOSTAT
 -  HUMIDISTAT
 -  CARBON DIOXIDE SENSOR
 -  CARBON MONOXIDE SENSOR
 -  NITROGEN DIOXIDE SENSOR
 -  DIFFERENTIAL PRESSURE SENSOR
 -  BALANCE DAMPER
 -  THERMALLY INSULATED DUCT
 -  DEVICE DESIGNATION
 -  GRILLE / DIFFUSER / LOUVER DESIGNATION
- DESIGNATION: RG-1
 SIZE (mm): 750x350
 AIR VOLUME (L/s): 660

FOR PRICING ONLY
 NOT FOR CONSTRUCTION

S.M. ELEV.		 10 PRAIRIE WAY WINNIPEG, MANITOBA R2J 3J8 PH: (204)-233-2113 FAX: (204)-233-2080		ENGINEERS SEAL	
DESIGNED BY	D.P.M.			CHECKED BY	M.K.
DRAWN BY	H.L.	APPROVED BY	E.G.	CONSULTANT DRAWING NO. 121-19259-00	
HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION	DATE		
VERT. SCALE:	AS NOTED	DATE	2012/06/26		
NO.	REVISIONS	DATE	BY		

EXISTING SITE CONDITION
 THE ASSESSMENT AND ANY POTENTIAL REQUIRED UPGRADING OF THE EXISTING ROOF FRAME STRUCTURE OF THIS BUILDING HAS NOT BEEN INCLUDED IN THE SCOPE OF THIS PROJECT AS HAS BEEN DIRECTED BY THE CLIENT - THE CITY OF WINNIPEG. THE CONTRACTORS SHALL NOT ADD ANY LOAD TO THE EXISTING ROOF STRUCTURE FOR ANY REASON BEYOND SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS WITHOUT APPROPRIATE REVIEW AND APPROVAL OF A PROFESSIONAL ENGINEER.

ASBESTOS CONTAINING MATERIALS ARE PRESENT ON-SITE.
 REFER TO PROJECT SPECIFICATIONS.
 ANY SUSPECT ASBESTOS-CONTAINING MATERIALS SHALL BE CONSIDERED AS ASBESTOS-CONTAINING UNTIL DETERMINED OTHERWISE.


THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

HVAC AND ELECTRICAL UPGRADE
 552 PLINGUET STREET
 WASTEWATER SERVICES GARAGE AND ADJACENT BUILDINGS

CITY DRAWING NO. SHEET 3 OF 10
 M-1

GENERAL DRAWING NOTES AND LEGEND