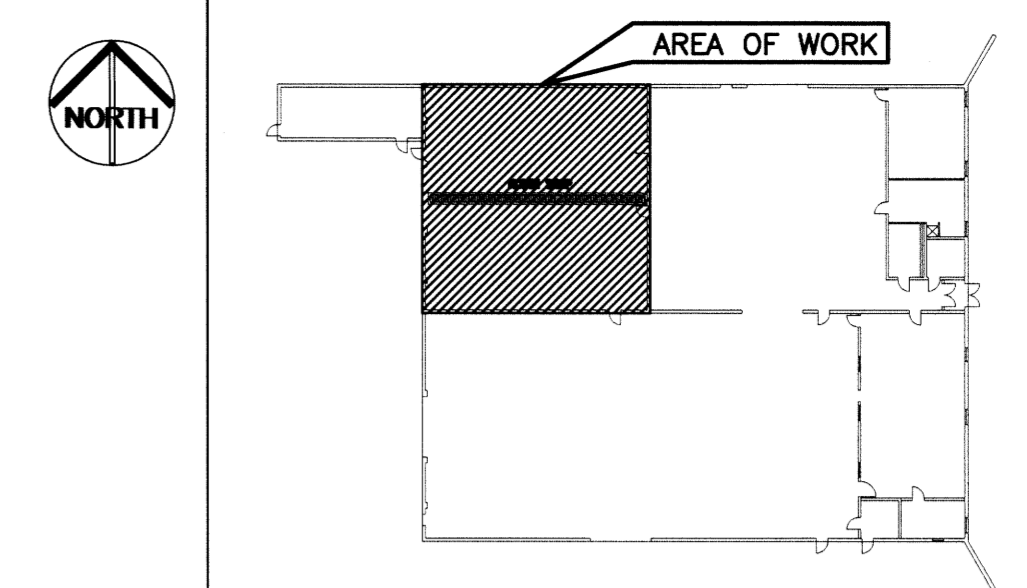


1 NORTH SHOP - NEW HVAC RENOVATION PLAN
 SCALE: 5 0 5 10 FT.
 SCALE: 1/4"=1'-0" (24" X 36")

GRILLE No.	PRICE DESIGNATION	COMMENTS
G1	16"x16"/520/F/A/B12	SUPPLY GRILLE
G2	28"x20"/530/F/L/A/B12	EXHAUST GRILLE

SCALE VERIFIED BY: RLG



KEY PLAN
SCALE: N.T.S.

- GENERAL NOTES:**
- PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
 - REVIEW EQUIPMENT LOCATIONS WITH THE CITY PRIOR TO INSTALLATION.
 - EQUIPMENT LOCATIONS, DUCT AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
 - CONFIRM TO SMACNA STANDARDS FOR SUPPLY AND INSTALLATION OF DUCTWORK. SEAL ALL DUCT JOINTS.
 - WALL PENETRATIONS BY STRUCTURAL, COORDINATE LOCATIONS. ASBESTOS IS LOCATED IN CORE OF BLOCK WALL. COORDINATE WORK WITH ASBESTOS REMEDIATION CONTRACTOR RETAINED BY CITY OF WINNIPEG. SEAL ALL PENETRATIONS THROUGH WALLS AIR AND WATER TIGHT. GRILLE LOCATIONS ARE APPROXIMATE ONLY.
 - CONTRACTOR TO DESIGN SIZE AND PROVIDE NEW GAS PIPING TO ALL NEW HEATING EQUIPMENT AND MODIFY EXISTING GAS PIPING AS REQUIRED. PAINT PIPING YELLOW.

- KEY NOTES:**
- PROVIDE NEW INDIRECT FIRED GAS MAKEUP AIR UNIT MUA-1 INSTALLED HORIZONTALLY ON NEW STAND C/W ACCESS PLATFORM (SEE STRUCTURAL DWG.). MANITOBA HYDRO TO REPLACE GAS SERVICE TO BUILDING TO 5 PSI TO SUIT MUA GAS REQUIREMENTS. VENT GAS TRAIN OUTDOORS ACCORDING TO DEPARTMENT OF LABOUR STANDARDS. PROVIDE NEW 7" W.C. GAS REGULATOR FOR PIPING SERVICING EXISTING HEATING EQUIPMENT. SIZED FOR EXISTING REMAINING GAS APPLIANCES IN THE BUILDING. PROVIDE NEW FRESH AIR INTAKE HOOD C/W BIRDSCREEN, NEW WALL PENETRATION BY ASBESTOS CONTRACTOR, MECHANICAL CONTRACTOR TO SEAL, INSULATE DUCTWORK AS SHOWN. RUN SUPPLY DUCTWORK UNDER FRESH AIR INTAKE. REFER TO SECTION 1 AND 2 ON DRAWING M03. INTERLOCK TO NEW EF-1, EXISTING CO DETECTOR, NEW BUILDING PRESSURE CONTROL PANEL AND PROVIDE A THERMOSTAT. REFER TO CONTROLS SCHEMATIC ON DWG. M04.
 - PROVIDE NEW WALL-MOUNTED EXHAUST FAN C/W BACKDRAFT DAMPER, AND WEATHER HOOD C/W BIRDSCREEN. INSULATE INDOOR DUCTWORK WHERE SHOWN. EXISTING WALL PENETRATION TO BE INCREASED BY ASBESTOS CONTRACTOR TO ACCOMMODATE NEW LARGER FAN. SEAL NEW WALL PENETRATION.
 - 3/4" PVC CONDENSATE DRAIN PIPING PROVIDED FROM MUA-1 TO EXISTING TRENCH DRAIN IN CENTRE OF SHOP. EXISTING FLOOR TO BE CUT BY STRUCTURAL SO PIPING CAN LAY EMBEDDED IN FLOOR (SEE STRUCTURAL DWG.). PROVIDE CLEANOUT PRIOR TO BURIED PIPE. COORDINATE PIPE LOCATION WITH STRUCTURAL.
 - EXISTING VULCAIN E3 POINT GAS DETECTION SYSTEM TO BE INTERLOCKED TO NEW MUA/EF SYSTEM. REFER TO DRAWING M04. PROVIDE SIGNAGE:

"WARNING: WHEN ALARM SOUNDS, EVACUATE BUILDING AND CONTACT MECHANICAL SERVICE CONTRACTOR".

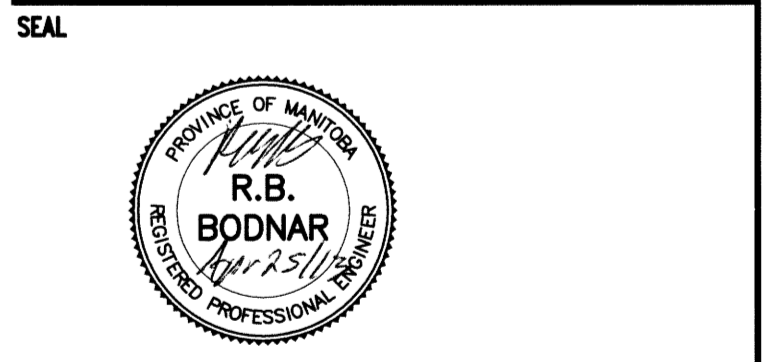
- LEGEND:**
- NEW DUCTWORK/EQUIPMENT/PIPING
 - EXISTING DUCTWORK/EQUIPMENT/PIPING
 - NATURAL GAS PIPING
 - CONDENSATE DRAIN PIPING
 - DUCT C/W EXTERNAL INSULATION
 - FLEXIBLE CONNECTOR
 - AIR FLOW DIRECTION
 - MAKEUP AIR UNIT
 - EXHAUST FAN
 - BALANCE DAMPER
 - BACKDRAFT DAMPER
 - THERMOSTAT
 - GAS DETECTION SYSTEM
 - BUILDING PRESSURE CONTROL PANEL
 - GRILLE NO.
 - GRILLE SIZE
 - AIR FLOW
 - NECK SIZE
 - CONTROL WIRING
 - CLEAN OUT
 - EXISTING EYEWASH
 - EXISTING HOTWATER TANK



NOTES:
 THESE DRAWINGS SHALL NOT BE SCALED.
 THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.
 THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.
 ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURERS SPECIFICATIONS & APPLICABLE CODES.
 THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.

DRAWING LIST	
SHEET No:	SHEET TITLE
M01	NORTH SHOP - EXISTING HVAC DEMOLITION PLAN
M02	NORTH SHOP - NEW HVAC RENOVATION PLAN
M03	NORTH SHOP - SECTION & DETAILS
M04	MECHANICAL CONTROLS SCHEMATIC
M05	MECHANICAL SPECIFICATIONS

No.	REVISION/DESCRIPTION	BY	DATE
2	ISSUED FOR ADDENDUM No. 1	RLG	2013 04/25
1	ISSUED FOR CONSTRUCTION	RBB	2013 02/08
0	ISSUED FOR TENDER	RBB	2012 07/17



DRAWN RLR **CHECKED** RLG **DESIGNED** RLG **APPROVED** RBB
DATE 2012.04.16 **USER APPROVAL**

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

PROJECT
 NORTH SHOP 2170 MAIN STREET
 HVAC UPGRADE

SHEET TITLE
 MECHANICAL
 NEW HVAC RENOVATION PLAN

SCALE AS SHOWN **PROJECT No:** 12-0107-003 **SHEET No:** M02