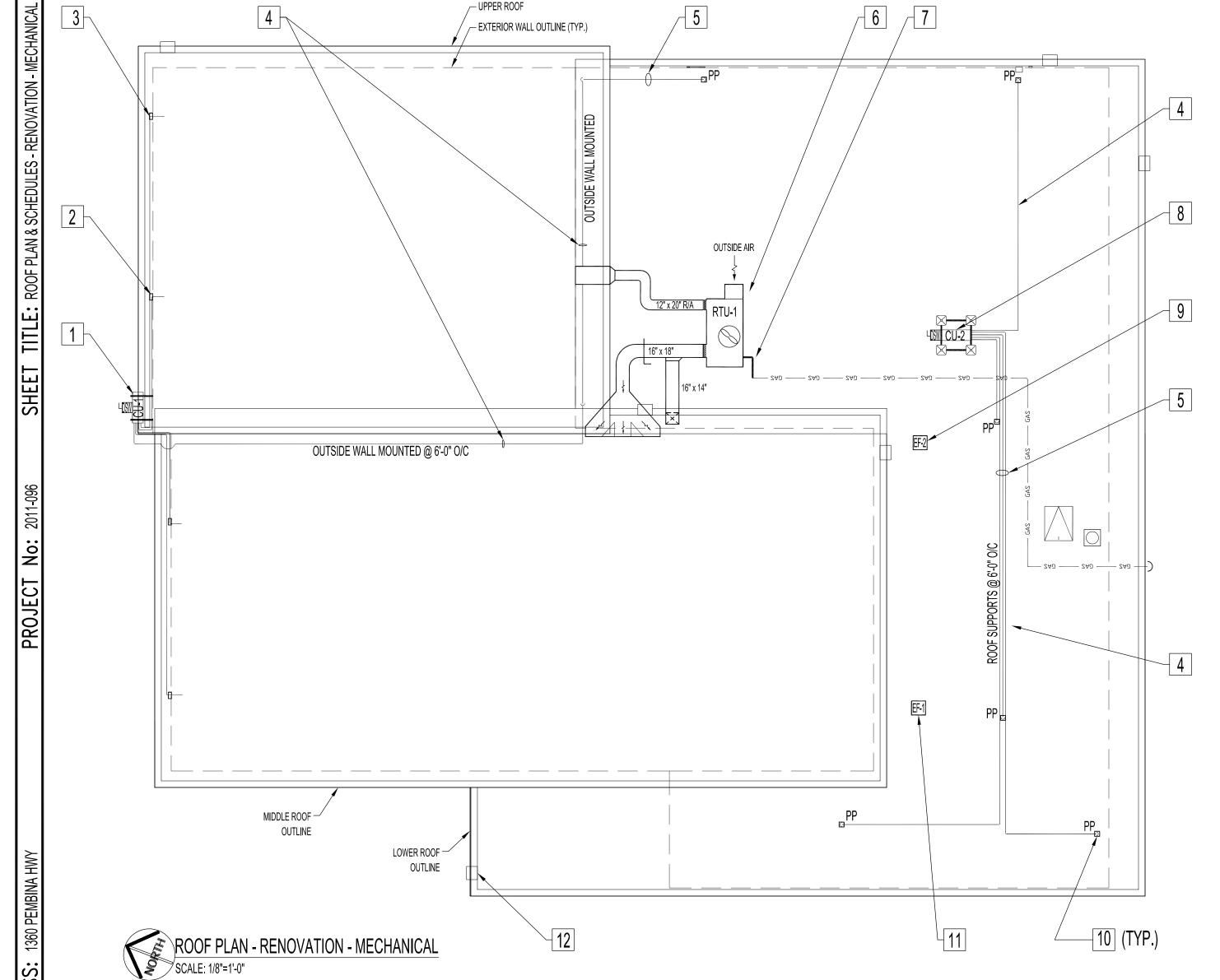


DETAIL- (RTU-1) RETURN & SUPPLY AIR DUCT SCALE: N.T.S



RENOVATION NOTES - MECHANICAL SUPPLY & INSTALL NEW AS NOTED

- SUPPLY & INSTALL HEAT PUMP SYSTEM, ANCHORED TO PAINTED CANTILEVER SUPPORTS FOR CU-1. MOUNT 12'-0" ABOVE GRADE AT LOCATION SHOWN. SECURE UNIT AS PER MANUFACTURERS INSTRUCTIONS. SEE HEAT PUMP SYSTEM SCHEDULE.
- 2 EXISTING RELOCATED, MODIFIED & PAINTED SHROUDS FOR EVAP1-A &
- NEW EXTERIOR SHROUDS TO HOUSE NEW CONDUITS, REFRIGERATION & CONDENSATE DRAIN LINES FOR EVAP2-A & EVAP4-A. PAINT TO MATCH.
- SURFACE RUN REFRIGERATION LINES SUPPORTED AND ANCHORED TO BIGFOOT OR EQUIVALENT UNI-STRUT SYSTEM. (SUPPLY & INSTALL)

 @ 6" ABOVE FINISHED ROOF AT EVERY 6'-0". PROVIDE GALVANIZED METAL SHROUD TO COVER ALL REFRIGERANT PIPING.
- REFRIGERATION LINES & CONTROL WIRING IN 1/2 EMT RUNS. MOUNT TO BRICK WALL AND SUPPORTED AND ANCHORED TO BIGFOOT OR EQUIVALENT UNI-STRUT SYSTEM. (SUPPLY & INSTALL) @ 6" ABOVE FINISHED ROOF AT EVERY 6'-0".
- 6 NEW HORIZONTAL ROOF TOP UNIT (RTU-1), GAS FIRED, AIR COOLED CONDENSING UNIT WITH ECONOMIZER. MOUNT UNIT ON ROOF CURBS PROVIDED BY MANUFACTURER. INTER-LOCK TO BASEMENT 'GAS ROOF TOP UNIT FIRE ALARM SHUT DOWN' SWITCH, SEE ELECTRICAL DWG.
- NEW SECTION OF NATURAL GAS PIPING. CONNECT TO NEW ROOF TOP UNIT (RTU-1). SUPPLY & INSTALL BIGFOOT OR EQUIVALENT UNI-STRUT SYSTEM @ 6" ABOVE FINISHED ROOF AT EVERY 6'-0". FIELD CONFIRM SIZE AND CAPACITY.
- HEAT PUMP SYSTEM CONDENSING UNIT (CU-2). MOUNT & ANCHOR UNIT TO BIGFOOT SUPPORT FRAME WORK OR EQUIVALENT, AS PER MANUFACTURERS INSTRUCTIONS.
- UNISEX WASHROOMS (RM.109 & 110) EXHAUST FAN (EF-2) C/W INSULATED MOTORIZED DAMPER & CURB. (SUPPLY & INSTALL).
- ROOF PENETRATIONS & PITCH PANS FOR REFRIGERATION, ELECTRICAL CONDUIT & WIRING PASS THROUGH TO MAIN FLOOR EVAPORATOR LOCATIONS. SUPPLY & INSTALL.
- STAFF WASHROOM/JANITOR ROOM EXHAUST FAN (EF-1) C/W INSULATED MOTORIZED DAMPER & CURB. (SUPPLY & INSTALL).
 - NEW ROOF SCUPPER & RAINWATER LEADER. SEE SPECIFICATIONS SECTION 'E'.

TAG	NO. REQ'D	SERVES	BRK	COMPRESSOR MOTOR						CONDENS	SER	MANUFACTURER	NOTES
				NO.	OUTPUT	ф	VOLTS	HERTZ	φ	VOLTS	HERTZ	MODEL NUMBER	
CU-1	1	(4) MAIN FLOOR & (1) MEZZANINE FLOOR EVAPORATORS	30A	1	2.4KW	1	208	60	1	208-230V	60Hz	MITSUBISHI CITY PUMY-P48NHMU MULTI SPLIT-TYPE HEAT PUMP SYSTEM, VARIABLE REFRIGERANT FLOW, INVERTER DRIVEN (VARIABLE SPEED) COMPRESSOR, R410A REFRIGERANT COOLING: 48,000 Btu/h HEATING: 54,000 Btu/h	
CU-2	1	(5) MAIN FLOOR EVAPORATORS	30A	1	2.4KW	1	208	60	1	208-230V	60Hz	MITSUBISHI CITY PUMY-P48NHMU MULTI SPLIT-TYPE HEAT PUMP SYSTEM, VARIABLE REFRIGERANT FLOW, INVERTER DRIVEN (VARIABLE SPEED) COMPRESSOR, R410A REFRIGERANT COOLING: 48,000 Btu/h HEATING: 54,000 Btu/h	
VAPX-A	9	ROOMS: 103, 104,105 106,111,115 M01										MITSUBISHI, MODEL # PKFY-P12NHMU-E 12,000 Btu, WALL MOUNTED EVAPORATORS	
VAPX-B	1	ROOM: 118										MITSUBISHI, MODEL # PKFY-P08NBMU-E 8000 Btu, WALL MOUNTED EVAPORATOR	

X DENOTES EVAPORATOR TAG NUMBER
A / B DENOTES EVAPORATOR COOLING OUTPUT

TAG	DESCRIPTION	REMARKS
RTU-1	AAON MODEL # RQ - 005 - 8 - H - EA09 - 379: A000 - R00 - QJD - 0A0 - N0D000E - 00 - 00A0H00EB. DIRECT DRIVE VARIABLE SPEED FAN, VARIABLE CAPACITY SCROLL COMPRESSOR MODULATING BURNER CONTROL, MODULATING ECONOMIZER W / CO2 OVERRIDE, DISCHARGE AIR CONTROLLER, HORIZONTAL SUPPLY AND RETURN OPENINGS, SS HEAT EXCHANGER. OPTIONS: ENTHALPY ECONOMIZER HUMIDITY SENSOR FOR OUTSIDE AIR REFRIGERANT CIRCUIT SIGHT GLASS UNIT. DISCONNECT SWITCH. FACTORY INSTALL CONVENIENCE 120V OUTLET. 14" HIGH ROOF CURB. EXTERNAL STATIC PRESSURE: 1.05 IN. WG. SUPPLY CFM /OUTDOOR AIR CFM: 2000 / 1100. COOLING: COOLING: COOLING: TOTAL HEATING CAPACITY: 129.6 MBH LEAVING AIR TEMP: 118.5 °F DB / 73.7 °F WB INPUT: 160.0 MBH ELECTRICAL: RATING: 208 / 3 / 60 UNIT FLA; 27	ROOF TOP UNIT WITH SLEEPERS TO RAISE 12" TO CLEAR F/A HOOD
QC-1	MITSUBISHI HEAT & COOL 24VDC, CENTRALIZED DIGITAL CONTROLLER, MODEL # AG-150.	
DQ-"X"	MITSUBISHI WALL MOUNTED CONTROLLER FOR EVAPORATORS, REMOTE TEMPERATURE SENSOR, MODEL # PAR-30MAAU-J.	
PS	MITSUBISHI 1φ/100/240V0LT POWER SUPPLY, MODEL # PAC-SC51KUA FOR AG-150A-A.	
EF-1	ROOF UPBLAST, 150 CFM AT 0.25" WG ESP, CENTRIFUGAL BLOWER, $\frac{1}{60}$ HP DIRECT DRIVE MOTOR, VOLTAGE TO SUIT, SPEED CONTROLLER, WALL SWITCH. ACCEPTABLE PRODUCT: GREENHECK MODEL 070-G OR SIMILAR.	ALSO SHOWN ON ELECTRICAL DWG. E
EF-2	ROOF UPBLAST, 150 CFM AT 0.25" WG ESP, CENTRIFUGAL BLOWER, $\frac{1}{60}$ HP DIRECT DRIVE MOTOR, VOLTAGE TO SUIT, SPEED CONTROLLER, WALL SWITCH. ACCEPTABLE PRODUCT: GREENHECK MODEL 070-G OR SIMILAR.	
RT-1	AAON, MINI CONTROLLER, NETWORKABLE THERMOSTAT & CONTROLLER WITH BUILT-IN TEMPERATURE SENSOR, ECONOMIZER CONTROL MULTIPLE ANALOG CONTROL INPUTS FOR CO2. BACNET CAPABLE.	
MD	2 POSITION, OPPOSED BLADE CONSTRUCTION, THERMALLY INSULATED, SIZE TO SUIT, DUCT TRANSITION, MOTORIZED OPERATOR, VOLTAGE TO SUIT. ACCEPTABLE PRODUCT: TAMCO SERIES 9000 OR SIMILAR.	

	GRILLE & DIFFUSER SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER				
A	SUPPLY GRILLE: ALUMINUM, 620 / F / S / A / DOUBLE DEFLECTION, $3/4$ " BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION.	PRICE				
В	EGG CRATE GRILLE: ALUMINUM, ½" X ½" GRID, MILL FINISH.	PRICE				
С	TRANSFER GRILLE: ALUMINUM, LBPH LINEAR BAR GRILLE, PENCIL PROOF SPACING, 0° DEFLECTION.	PRICE				
D	RETURN GRILLE: SIZE TO SUIT OPENING/ 635 / F / A / MILL, ALUMINUM.	PRICE				
Е	DOOR GRILLE: 18" X 12" / ATG1 / BF / B15.	PRICE				
F	SUPPLY GRILLE: ALUMINUM, SDGE SPIRAL DUCT GRILLE, DOUBLE DELFECTION, $\frac{3}{4}$ " BLADE SPACING, 45° DEFLECTION, C/W AIR SCOOP .	PRICE				

NOTES:

ALSO SEE ARCHITECTURAL, ROOF & ELECTRICAL DWG'S & NOTES.

1 RE-ISSUED FOR TENDER AI 2012.09.28

No. REVISION/DESCRIPTION BY DATE

SEAL



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DRAWI	RCP	CHECKED	DTA	DESIGNED	DTA	APPROVED
DATE	2012.08.17	USER Approval				



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

FORT GARRY LIBRARY
INTERIOR & EXTERIOR REFURBISHING

VILINION & LATEN

1360 PEMBINA HWY

ROOF PLAN & SCHEDULES
RENOVATION
MECHANICAL

SCALE PROJECT No: SHEET No: N-2 R-1

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1