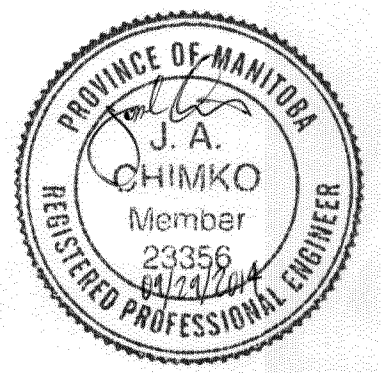


LEGEND
 ——— EXISTING TO REMAIN
 ——— NEW
 R RELOCATE

MEZZANINE FLOOR PLAN - NEW HVAC
 SCALE: 1:100



APEGM
 Certificate of Authorization
 Tower Engineering Group
 No. 4156 Expiry: April 30, 2015

rev4 - 2014-09-29 - Issued for Construction
 rev3 - 2014-08-01 - Issued for 95% Review
 rev2 - 2014-06-27 - Issued for 75% Review
 rev1 - 2014-04-30 - Issued for 30% Review
 revision

The drawings, specifications, revisions, addendums, and clarifications, must be read as a whole. Errors and omissions due to separation of the documents by the general contractor become the responsibility of the same.

This drawing must not be scaled.
 The general Contractor must verify all dimensions, datums and levels prior to commencement of work. All errors and omissions must be reported immediately to the Architect.
 Variations and modifications to work shown on this drawing shall not be carried out without written permission from the Architect.

MAIN FLOOR PLAN - NEW HVAC
 SCALE: 1:100

DRAWING NOTES:

- 1 EXISTING S/A GRILLE/DIFFUSER TO BE RE-BALANCED TO AIRFLOW NOTED.
- 2 NEW ELECTRIC BASEBOARD HEATER TO BE SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION. HEATING CAPACITY SHALL BE AS NOTED; REFER TO ELECTRICAL DRAWING FOR FURTHER INFO.
- 3 NEW ELECTRIC FORCE FLOW ENTRANCE HEATER TO BE SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION. HEATING CAPACITY SHALL BE AS NOTED; REFER TO ELECTRICAL DRAWING FOR FURTHER INFO.
- 4 NEW ELECTRIC BASEBOARD HEATER TO BE SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION. HEATING CAPACITY SHALL MATCH PREVIOUSLY INSTALLED EXISTING CAPACITY; REFER TO ELECTRICAL DRAWING FOR FURTHER INFO.
- 5 EXISTING THERMOSTAT TO BE RELOCATED AS SHOWN TO SUIT NEW INTERIOR PARTITION WALL.
- 6 PROVIDE NEW R/A GRILLE CONNECTED TO EXISTING DUCTWORK APPROXIMATELY AS SHOWN.
- 7 PROVIDE NEW EXHAUST FAN. THERMALLY INSULATE E/A DUCT TO WALL PENETRATION.
- 8 UPSIZE EXISTING E/A OPENING AND WALL CAP AS NECESSARY AND REPLACE WITH NEW IF REQUIRED.
- 9 PROVIDE NEW EXHAUST FAN AND CONNECT TO EXISTING E/A DUCTWORK. REUSE EXISTING CONTROLS AND RECONNECT WIRING AS NECESSARY.
- 10 PROVIDE NEW EXHAUST FAN AND CONNECT TO EXISTING E/A DUCTWORK/ROOF CAP.
- 11 INTERLOCK NEW EXHAUST FAN WITH NEW LIGHT SWITCH FOR SPACE. COORDINATE FINAL REQUIREMENTS WITH ELECTRICAL DIVISION.
- 12 NEW S/A GRILLE TO BE MOUNTED IN SIDE OF NEW BULKHEAD. CONNECT NEW GRILLE TO EXISTING S/A DUCTWORK AND PROVIDE NEW BALANCING DAMPER ACCESSIBLE FROM MECHANICAL ROOM.
- 13 NEW S/A DUCTWORK SHALL BE COORDINATED WITH ARCHITECT. NEW DUCTWORK TO RUN IN NEW BULKHEAD AS REQUIRED.

- 13 NEW S/A DUCTWORK SHALL BE COORDINATED WITH ARCHITECT. NEW DUCTWORK TO RUN IN NEW BULKHEAD AS REQUIRED.
- 14 NEW S/A GRILLE TO BE MOUNTED AT HIGH LEVEL C/W BALANCING DAMPER ACCESSIBLE FROM PANTRY.
- 15 NEW S/A DUCTWORK TO OFFSET AND RISE UP TO RUN AS HIGH AS POSSIBLE THROUGH 'PANTRY M07'.
- 16 NEW S/A GRILLE TO BE MOUNTED AT HIGH LEVEL AND CONNECTED TO EXISTING S/A DUCT LOCATED ABOVE ADJACENT WASHROOM SPACE. PROVIDE BALANCING DAMPER ACCESSIBLE FROM FACE OF GRILLE.
- 17 EXISTING S/A DIFFUSER TO BE RELOCATED AS SHOWN. RECONNECT DIFFUSER TO EXISTING S/A DUCTWORK APPROXIMATELY AS SHOWN.
- 18 PROVIDE NEW THERMOSTAT FOR AHU-1 NEW APPROXIMATELY THIS LOCATION. CONFORM FINAL LOCATION ON SITE WITH ALL OTHER DISCIPLINES AND OWNER'S REP.
- 19 NEW ECONOMIZER SECTION TO BE PROVIDED WITH AHU-1 NEW. CONNECT NEW F/A AND R/A SECTIONS TO EXISTING F/A AND R/A DUCTWORK ON SITE.
- 20 NEW AIR HANDLING UNIT AHU-1 NEW TO BE SUSPENDED FROM FLOOR OF MEZZANINE ABOVE C/W VIBRATION ISOLATORS AND FLEXIBLE DUCT CONNECTIONS. PROVIDE NEW CONDENSATE DRAIN LINE INDIRECTLY DRAINING INTO NEW JANITOR SINK.
- 21 MOUNT NEW CONDENSING UNIT CU-1 NEW ON LEVEL STAND APPROXIMATELY AS SHOWN. REFER TO DETAIL.
- 22 REFRIGERANT LINES FOR CU-1 NEW TO DROP DOWN TO MAIN FROM 'PANTRY M07' AND OFFSET INTO 'MECHANICAL/ELECTRICAL ROOM M05' AS REQUIRED.
- 23 PROVIDE NEW BALANCING DAMPERS AS SHOWN.
- 24 PROVIDE 700"x250" R/A DUCT AT HIGH LEVEL INTO 'KITCHEN M08'. CONNECT TO WALL MOUNTED R/A GRILLE AT HIGH LEVEL ABOVE CABINETS SUPPLIED BY ARCHITECT. COORDINATE FINAL INSTALLATION ON SITE WITH ALL OTHER DISCIPLINES.
- 25 PROVIDE NEW EXHAUST FAN C/W 24hr, 7-DAY, TIMECLOCK LOCATED WITHIN SPACE. PROVIDE DISCHARGE WALL CAP & THERMALLY INSULATE DUCTWORK.
- 26 REFRIGERANT PIPING TO BE INSTALLED ON 'C-PORT', 'ECOFOOT', OR EQUIVALENT TYPE ROOF SUPPORT.

GENERAL NOTES:

1. COORDINATE DUCT RUNS WITH PIPING AND ALL OTHER TRADES.
2. CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES, INVERTS, ETC. PRIOR TO BID CLOSE AND COMMENCEMENT OF WORK.
3. COORDINATE THE EXACT LOCATION OF THE GRILLES AND DIFFUSERS ON SITE WITH THE ELECTRICAL CONTRACTOR, CONTRACTOR, ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING LAYOUT, ETC. TO ENSURE THAT THERE ARE NOT ANY CONFLICTS DURING INSTALLATION.
4. PROVIDE BALANCING DAMPERS AS SHOWN AND AS REQUIRED TO ALLOW PROPER BALANCING SYSTEM. PROVIDE OPPOSED BLADE DAMPERS WITH THE DIFFUSER AND ADJUSTABLE FROM THE DIFFUSER FACE WHEN A DUCT MOUNTED BALANCE DAMPER WOULD NOT BE ACCESSIBLE.
5. ACOUSTICALLY LINE S/A AND R/A DUCTWORK A MINIMUM OF 10'-0" (3m) BACK FROM AIR HANDLING EQUIPMENT / ROOFTOP UNITS UNLESS LARGER AMOUNT IS SHOWN.
6. ALL DUCT DIMENSIONS DENOTE INTERNAL "FREE" AREA OF THE DUCT.
7. ALL DUCTWORK PENETRATING THE BUILDING THERMAL ENVELOPE SHELL SHALL BE INSULATED FOR A MINIMUM DISTANCE OF 3m (10'-0") BACK FROM THE BUILDING PENETRATION WITH 50mm (2") THICK DUCT WRAP INSULATION AS PER MECHANICAL SPEC.
8. REFER TO ARCHITECTURAL DRAWINGS, FIRE DAMPERS SHALL BE PROVIDED IN ALL WALLS DENOTED AS FIRE SEPARATIONS WHETHER SHOWN ON MECHANICAL PLANS OR NOT.
9. COORDINATE THE EXACT LOCATIONS OF EQUIPMENT, DUCT OPENINGS, AND DUCT LOCATIONS WITH STRUCTURAL.
10. PROVIDE SINGLE THICK NEW TURNING VANES WITH A TRAILING EDGE (AS DETAILED IN THE LATEST SMACNA DUCT DESIGN MANUAL) IN ALL "SQUARE/RECTANGULAR ELBOWS".
11. DIFFUSER & REGISTER TAG:

?	QUANTITY
?	MODEL TYPE
?	SIZE IN INCHES
?	AIR CAPACITY (L/S)
X ?	NECK SIZE IN INCHES
12. ALL R/A DUCTWORK AT AIR HANDLING EQUIPMENT WILL BE INLET SIZED & SHALL TRANSITION AS NOTED OTHERWISE.
13. HVAC EQUIPMENT ORIENTATIONS HAVE BEEN SHOWN FOR OVERALL DESIGN INTENT OF SYSTEMS. MECHANICAL CONTRACTOR SHALL SITE CONFIRM ACTUAL ORIENTATIONS OF HVAC EQUIPMENT & SHALL MAKE ALL PROVISIONS TO CONNECT & INSTALL ALL NEW DUCTWORK TO EXISTING OUTLETS/INLETS AS REQUIRED TO SATISFY THE DESIGN INTENT.
14. DUCTWORK IS TO RUN AS HIGH AS POSSIBLE (BETWEEN JOIST SPANS WHERE APPLICABLE) & SHALL OFFSET BELOW BEAMS AS REQUIRED (WHETHER SHOWN ON THE DRAWINGS OR NOT). MAKE PROVISIONS TO ROUTE ALL DUCTWORK AS NECESSARY TO ACCOMMODATE THE JOISTS & BEAMS LOCATED ON SITE.

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project
WESTON MEMORIAL COMMUNITY CENTRE - INTERIOR RENOVATION WINNIPEG, MANITOBA

sheet title
MECHANICAL MAIN FLOOR PLAN NEW - HVAC

project number: 14-004 drawing number:
 scale: AS SHOWN
 drawn by: JRR
 approved by: JC
 date: September 30, 2014

M-2.2