

VENTILATION GENERAL NOTES:

- 1. DO NOT SCALE THE DRAWING.
- 2. PROVIDE COMPLETE HVAC SYSTEM TO SERVE SPACES AS NOTED ON THE DRAWING IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AS WELL AS ANY REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 3. LOCATION OF DIFFUSERS AND GRILLES SHOWN ON DRAWING ARE APPROXIMATE ONLY. COORDINATE WITH ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- 4. CONTRACTOR SHALL CONFIRM AND COORDINATE THE LOCATION AND ROUTE OF EQUIPMENT, PIPING AND DUCTWORK ON SITE AND WITH OTHER TRADES.
- 5. DIFFUSERS AND GRILLES SHALL HAVE UPSTREAM BALANCING DAMPERS.
- 6. PROVIDE TURNING VANES IN EACH RECTANGULAR ELBOW. TAKE-OFFS TO HAVE ENLARGED THROATS WITH LEADING EDGES.
- 7. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE INSTALLED ON DUCTWORK PENETRATING FIRE SEPARATION AND/OR SMOKE SEPARATION FLOOR, SLABS AND WALLS. REFER TO ARCHITECTURAL LIFE SAFETY PLAN FOR FIRE/SMOKE SEPARATIONS.
- 8. COORDINATE THERMOSTAT LOCATIONS WITH FURNITURE, ETC.

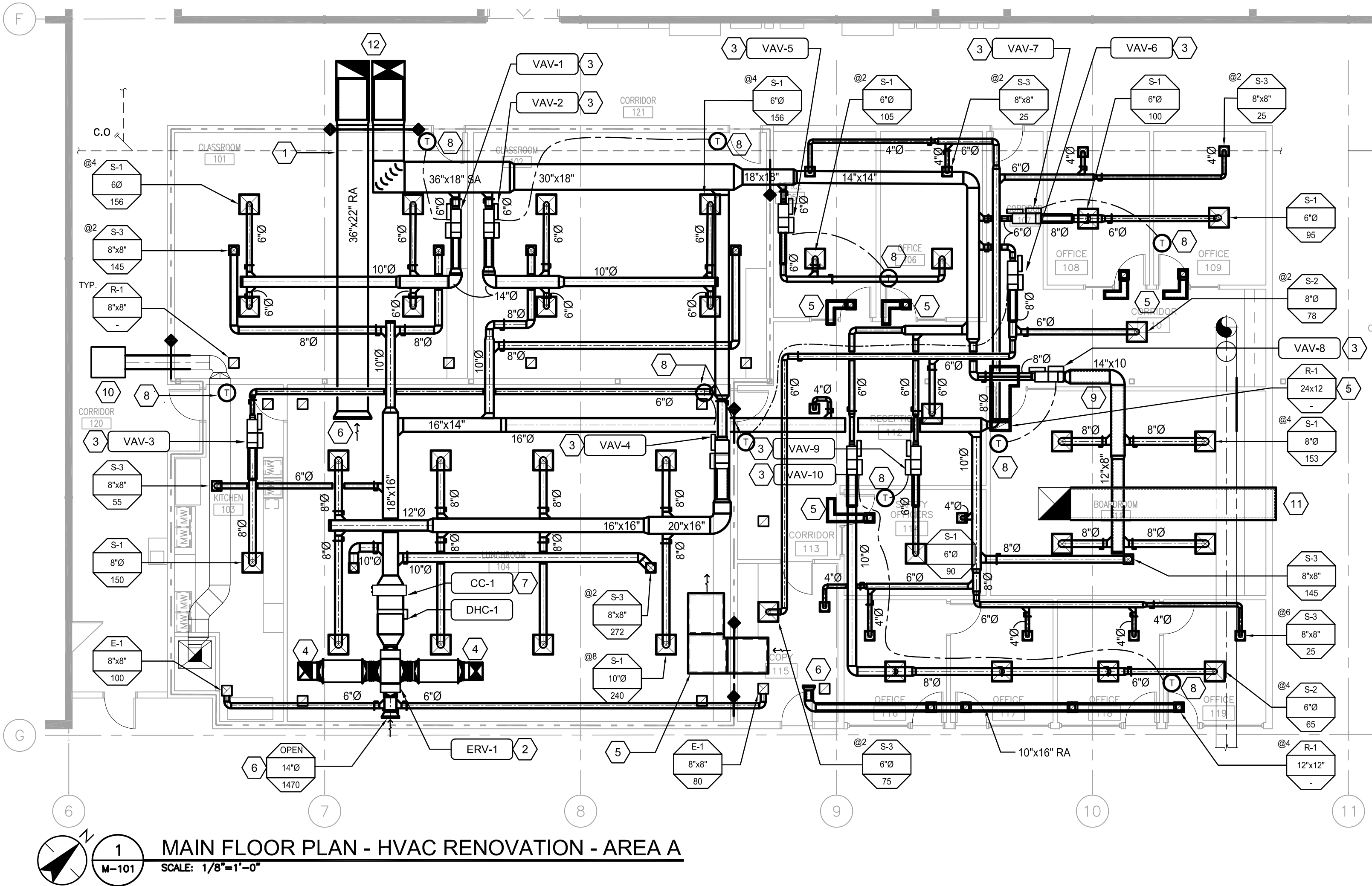
- 9. VARIATIONS FROM THE SPECIFIED PRODUCTS AND ASSOCIATED WORK REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL COMPENSATION WILL NOT BE CONSIDERED BECAUSE OF DIFFERENCES IN INTERPRETATION OF TECHNICAL PROVISIONS.
- 10. CONTRACTOR WILL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGING NEW AND EXISTING EQUIPMENT AND DUCTWORK OVER THE COURSE OF CONSTRUCTION.
- 11. CONTRACTOR TO PROVIDE DUCTING SUPPORTS.
- 12. COORDINATE WITH GENERAL CONTRACTOR REQUIRED ACCESS HATCH/PANELS FOR MECHANICAL EQUIPMENT CONCEALED ABOVE INACCESSIBLE CEILINGS AND WITHIN WALLS. MAKE EFFORT T TO LOCATE AND COORDINATE DEVICES REQUIRING ACCESS TO BE IN GROUPED AREAS TO REDUCE THE NUMBER OF ACCESS DOORS REQUIRED. ACCESS DOORS TO BE LOCATED WITH CONSIDERATION ON AND IN ALIGNMENT WITH ARCHITECTURAL DETAILS AND OTHER CEILING/WALL MOUNTED DEVICES TO THE SATISFACTION OF THE ARCHITECT.
- 13. WALL MOUNTED THERMOSTATS IN PUBLIC SPACES TO HAVE LOCKABLE AND VENTED PLASTIC COVER.
- 14. TEMPERATURE/HUMIDITY STAT TO VAIRIBLE AIR VOLUME BOXES. (TYPICAL).
- 15. EXPOSED DUCTWORK IS TO BE PAINTED AND THE COLOR SELECTION BY ARCHITECT.
- 16. THE CONTRACTOR IS TO ALLOW 1'-0" CLEARANCE ABOVE THE ELECTRICAL CABLE TRAY AND TO COORDINATE THE ROUTING OF SYSTEMS WITH THE ELECTRICAL CONTRACTOR.
- 17. PENETRATIONS THROUGH THE WALL PARTITIONS INSTALLED UP TO CEILING ARE SEALED.

#KEYNOTES

- 1. DUCTWORK SUSPENDED FROM STRUCTURE USING APPROVED APPLICATION. THE CONTRACTOR IS TO COORDINATE THE ROUTING OF DUCTWORK WITH TRADES BEFORE INSTALLATION IS TO PROCEED. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- 2. MECHANICAL EQUIPMENT SUSPENDED FROM THE STRUCTURE. PROVIDE MOUNTING AND SUPPORT HARDWARE AS REQUIRED AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE INSTALLATION HEIGHT WITH TRADES BEFORE INSTALLATION IS TO OCCUR. MAINTAIN THE REQUIRED CLEARANCE SPECIFIED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 3. CONNECT VAV INLET DUCT TO THE MAIN SUPPLY AIR DUCT. VAV TO COME WITH INTEGRAL ACOUSTIC ATTENUATOR. PROVIDE A STRAIGHT DUCT PER VAV MANUFACTURER'S RECOMMENDATIONS IN THE INLET SIDE. THE SIZE OF THE DUCT WORK FOR INLET AND OUTLET SHALL MATCH THE VAV BOXES AND AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE VAV SCHEDULE ON DRAWING.
- 4. DUCTWORK TO RISE UP TO GOOSE NECK AT ROOF LEVEL. PROVIDE A MOTORIZED DAMPER WITHIN THE BUILDING ENVELOPE BEFORE ROOF PENETRATION.

#KEYNOTES

- 5. INSTALL NEW TRANSFER AIR DUCT COMPLETE WITH 1" FIBER-FREE CLOSED CELL ACOUSTIC INSULATION. TRANSFER DUCT SHALL BE AS HIGH AS POSSIBLE IN THE CEILING SPACE.
- 6. DUCTWORK OPEN-ENDED IN CEILING SPACE. PROVIDE METAL MESH.
- 7. DUCT MOUNTED COOLING COIL. CONNECT REFRIGERANT PIPES TO THE CONDENSING UNIT ON THE ROOF. PROVIDE CONDENSATE DRAIN LINE DOWN TO THE FUNNEL DRAIN.
- 8. THERMOSTAT TO BE INSTALLED ACCORDING TO MANITOBA ENERGY CODE. PROVIDE CONTROL WIRING TO MECHANICAL UNIT. COORDINATE POWER SUPPLY WITH ELECTRICAL.
- 9. PROVIDE 1" ACOUSTICAL LINING ON DUCTWORK FOR BOARD ROOM.
- 10. RELOCATE EXISTING EXHAUST FAN AND CONNECT TO EXISTING DUCTWORK ON THE MAIN FLOOR AND ON THE ROOF. COORDINATE EXACT LOCATION AND MOUNTING ON SITE.
- 11. CONNECT RELIEF DUCT TO EXISTING AND LEAVE IT OPEN ENDED. DUCT SIZE TO MATCH EXISTING.
- 12. THERMALLY INSULATED SUPPLY AND RETURN DUCT RISERS UP TO ROOF TOP UNIT.

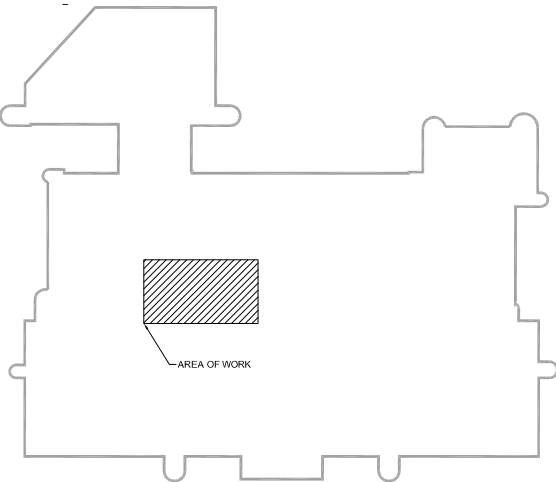


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Legend

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Permit-Seal



Client/Project
WINNIPEG TRANSIT MAINTENANCE FACILITY
OFFICE REDEVELOPMENT

421 OSBORNE ST. SOUTH, WINNIPEG, MB

Title
HVAC RENOVATION LAYOUT -
PARTIAL PLAN A

Project No. 115421006	Scale As indicated	Revision
Drawing No. M-101	Sheet 6 of 16	Revision 0