



Certificate of Authorization
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No. 589

10557



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This drawing must not be scaled. The contractors shall verify all dimensions and other data on site prior to commencement of work. Discrepancies, errors, and omissions are to be reported to Public City Architecture Inc. prior to proceeding with the Work.

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Project
Cornish Library Renovation

Drawing
BASEMENT - HVAC
RENOVATION LAYOUT

Drawn By TL
Scale As noted
Reviewed By ATS
Drawing No. M4.1

Date 2017.11.28
Project No. 1503a

ASHRAE 62.1-2013 COMPLIANCE SCHEDULE

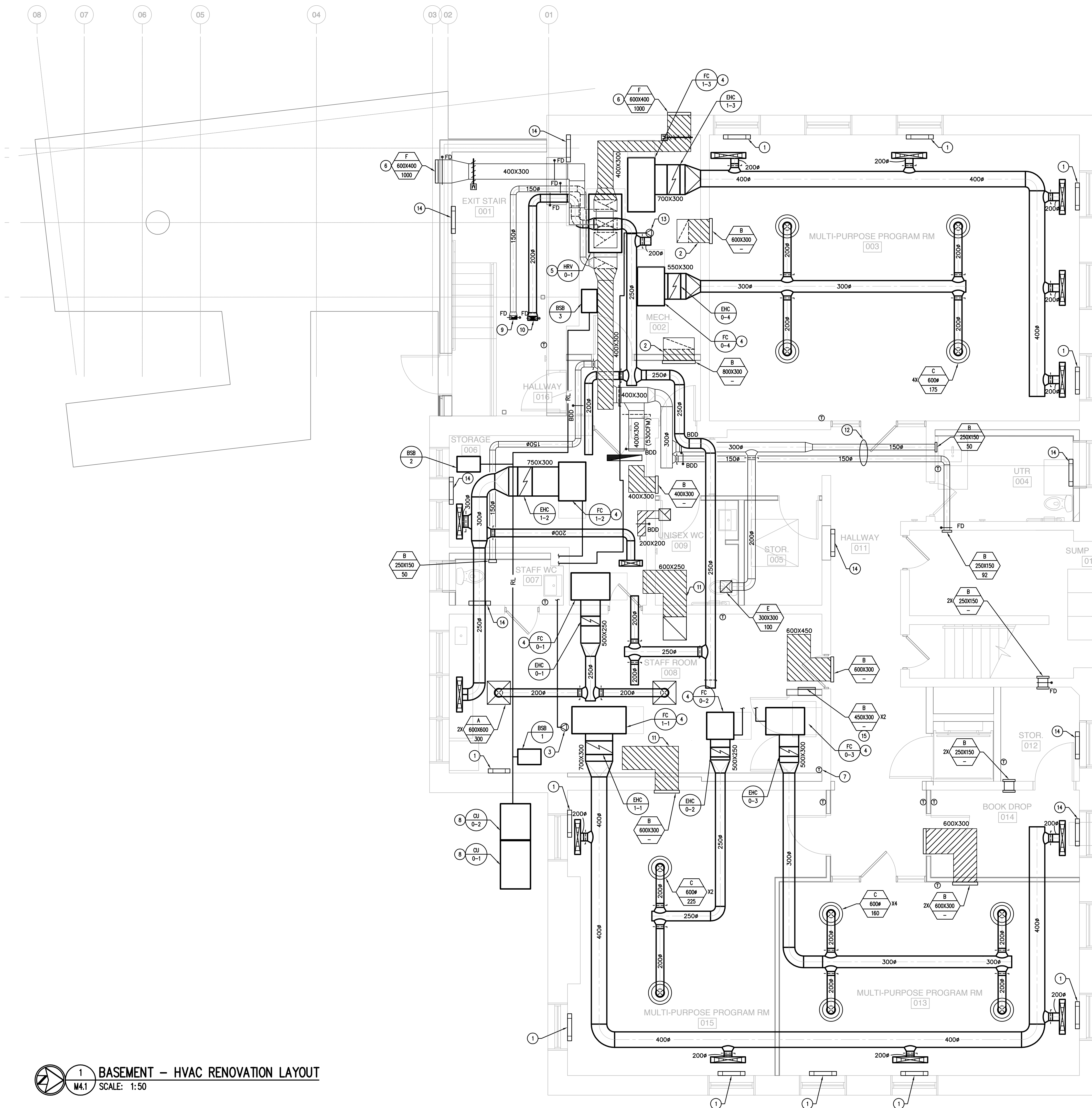
UNIT DESIGNATION	OCCUPANCY CATEGORY	PEOPLE OUTSIDE AIR RATE (CFM/OCCUPANT)	NUMBER OF OCCUPANTS	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	AREA OF SPACE (FT ²)	AREA OUTSIDE AIR RATE (CFM/FT ²)	**COMBINED OUTSIDE AIR VOLUME W/ EFFECTIVENESS (CFM)
FC 0-1	BREAK ROOM	5 CFM / OCCUPANT	3	1.0	360	0.12 CFM / FT ²	60
FC 0-2	MEETING ROOM	5 CFM / OCCUPANT	9	1.0	440	0.06 CFM / FT ²	72
FC 0-3	MEETING ROOM	5 CFM / OCCUPANT	9	1.0	420	0.06 CFM / FT ²	70
FC 0-4	CONFERENCE ROOM	5 CFM / OCCUPANT	20	1.0	750	0.06 CFM / FT ²	145
FC 1-1, 1-2, 1-3	LIBRARIES	5 CFM / OCCUPANT	25	1.0	3100	0.12 CFM / FT ²	FC 1-1: 166 FC 1-2: 166 FC 1-3: 166
FC 1-4, 1-5	LIBRARIES	5 CFM / OCCUPANT	10	0.8	615	0.12 CFM / FT ²	155
TOTALS							1000

GENERAL NOTES:

- THIS DRAWING IS DIAGRAMMATIC ONLY. DO NOT SCALE.
- THE MECHANICAL SYSTEMS SHOWN ARE APPROXIMATE IN LOCATION ONLY. CONTRACTOR TO VERIFY EXACT LOCATION OF SYSTEMS BEING MODIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK SHALL COMPLY WITH THE MOST CURRENT VERSION OF ALL APPLICABLE CODES AND STANDARDS, WHICH SHALL BE CONSIDERED PART OF THESE CONTRACT DOCUMENTS. IN THE CASE OF CONFLICTING REQUIREMENTS, THE MOST STRINGENT REGULATION SHALL PREVAIL.
- CONTRACTOR TO MAINTAIN CURRENT AND READILY REVIEWABLE AS-BUILT DRAWINGS ACCURATELY REFLECTING SITE INSTALLATIONS.
- CONTRACTOR TO ENSURE ALL MATERIALS MODIFIED OR INSTALLED IN AN AIR PLENUM ARE RATED FOR SUCH USE.
- CONTRACTOR TO MAINTAIN DIGITAL PHOTOGRAPHIC RECORDS OF ALL INSTALLATIONS PRIOR TO CONCEALMENT.
- FLARE DUCTWORK AS REQUIRED TO SUIT CONNECTION SIZE OR OPENING TO MECHANICAL EQUIPMENT.
- PROVIDE FIRE DAMPERS AT EACH LOCATION WHERE A DUCT PENETRATES A FIRE SEPARATION OR FIRE WALL. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE SEPARATIONS AND FIRE WALLS, AND THEIR RATINGS.
- PROVIDE CEILING DAMPERS FOR ALL DIFFUSERS, GRILLES OR REGISTERS LOCATED IN FIRE RATED CEILINGS. DIFFUSERS TO BE PROTECTED BY CK 2000 THERMAL BLANKET WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CEILINGS.
- DUCTS BEING INSTALLED TO BE WIPED CLEAN AND HAVE SEAMS SEALED AS PER MECHANICAL SPECIFICATION.
- MECHANICAL COMPONENTS BEING STORED ON SITE TO BE PROTECTED UNTIL INSTALLATION INTO SYSTEM.
- NO EXPOSED CONDUIT SHALL BE ALLOWED IN HALLWAY 011, AND MULTI-PURPOSE ROOMS.

DRAWING NOTES:

- NEW ELECTRIC HEATER, HEATER AND RELAY BY ELECTRICAL SUBCONTRACTOR. CONTROL WIRING AND THERMOSTAT BY MECHANICAL SUBCONTRACTOR. THERMOSTAT TO CONTROL FAN COIL AND ALL ELECTRICAL HEATERS IN ROOM.
- ACOUSTICALLY LINED DOWN TURNED TRANSFER AIR ELBOW. DUCT TO MATCH GRILLE SIZE.
- PROVIDE LITTLE GIANT 15 UL5 CONDENSATE IN CEILING TO DRAIN FAN COIL CONDENSATE. PIPE TO NEARBY WASHROOM.
- FAN COIL TO BE SUSPENDED FROM STRUCTURE COMPLETE WITH SPRING VIBRATION ISOLATORS. GRAVITY DRAIN CONDENSATE TO NEARBY DRAIN UNLESS NOTED OTHERWISE.
- HRV TO BE MOUNTED ON NEW 100MM CONCRETE PAD.
- COORDINATE HEIGHT OF LOUVER OPENING WITH ARCHITECTURAL ELEVATIONS.
- TEMPERATURE SENSOR TO REPORT TEMPERATURE TO DDC SYSTEM. ALARM ABOVE 85F.
- CONDENSING UNITS TO BE INSTALLED AT GRADE ON CONCRETE PAD.
- EXHAUST RISER TO WASHROOM ABOVE.
- FRESH AIR TO FAN COIL PLENUM ABOVE.
- ACOUSTICALLY LINED TRANSFER AIR ELBOW. REFER TO DETAIL.
- RUN EXHAUST DUCTS AT HIGH LEVEL, STACK ONE ABOVE THE OTHER ALONG EXISTING BEAM.
- PROVIDE LITTLE GIANT CONDENSATE PUMP TO DRAIN NEARBY EQUIPMENT.
- NEW HEATER AND RELAY BY ELECTRICAL SUBCONTRACTOR. THERMOSTAT AND LOW VOLTAGE WIRING BY MECHANICAL.
- TRANSFER AIR GRILLES AND OPENINGS AT HIGH AND LOW LEVEL FOR NATURAL CONVECTION THROUGH IT CLOSET.



1 BASEMENT - HVAC RENOVATION LAYOUT
M4.1 SCALE: 1:50