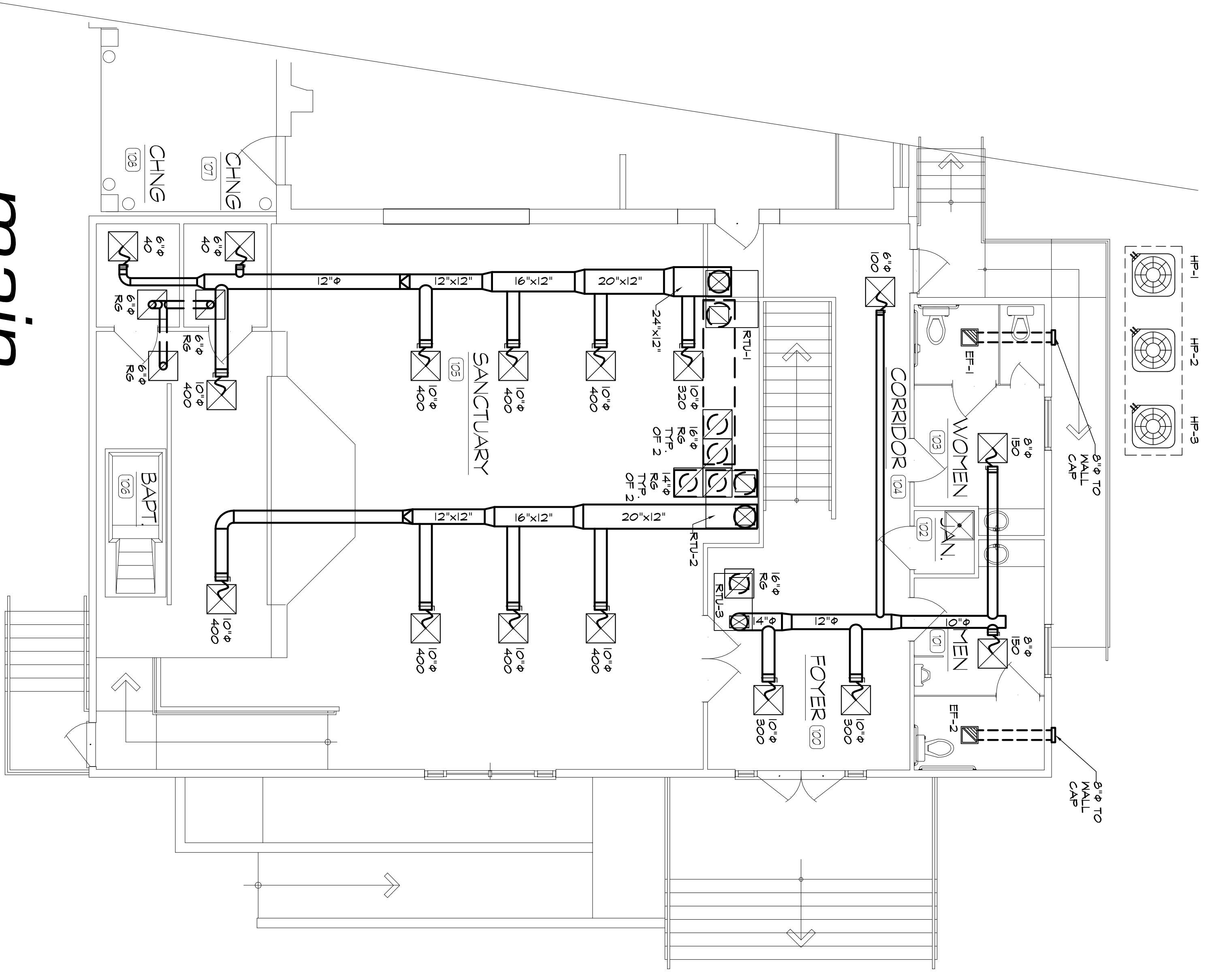


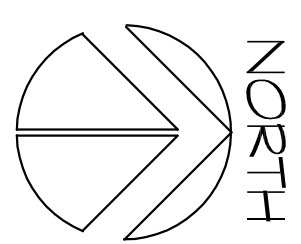
basement hvac floor plan

SCALE: 3/16" = 1'-0" 2,459 S.F.



main hvac floor plan

SCALE: 3/16" = 1'-0" 2,459 S.F.



LEGEND	
HP	HEAT PUMP
EF	EXHAUST FAN
RTU	ROOF TOP UNIT
FCU	FAN COIL UNIT
OA	OUTSIDE AIR
RS	RETURN GRILLE
□	SUPPLY DIFFUSER
□	RETUR/EXHAUST GRILLE
□	RESQUARE TO ROUND BOOT
⊖	THERMOSTAT
⊖	CARBON DIOXIDE SENSOR
⊖	SPIN-IN FITTING W/DAMPERS
⊖	ELBOW W/TURNING VANES
—	SUPPLY DUCT
---	RETUR/EXHAUST DUCT
---	OUTSIDE AIR DUCT
~	FLEXIBLE DUCT
—	SAME SIZE AS DIFFUSER NECK
—	MANUAL DAMPER
—	MOTOR OPER. DAMPER
—	INTERLOCKED MOUNT SUPPLY FAN
—	FIRE / SMOKE DAMPER (VERTICAL)
◆	FIRE / SMOKE DAMPER (HORIZONTAL)

GENERAL NOTES

- ROUTE CONDENSATE LINES TO NEAREST P.L.S. VENT, FLOOR DRAIN OR TO EXTERIOR.
- FOR ALL ROOF OR WALL PENETRATIONS, EXHAUST AND VENTILATION AIR, PROVIDE WEATHERROOF CAP, FLASHING AND BIRD SCREEN. ALL OUTSIDE AIR INLETS TO BE 10'-0" MIN. FROM ANY EXHAUST OR PLUMBING VENT OPENING. LOCATE ROOF CAPS ON BACK SIDE OF ROOF.
- PLACE ALL OUTDOOR CONDENSING UNITS ON LEVEL, CONCRETE PAD. ROUTE FLUID AND SLOSION LINES TO THE OUTSIDE ON THE EXTERIOR SIDE OF THE BUILDING AND ENTER BUILDING AT CEILING SPACE. PROVIDE 1-1/2" THICK INSULATION ON EACH LINE AND SECURE RIGIDLY TO WALL AND INSIDE CEILING SPACE.
- PROVIDE MANUFACTURER LONG LINE APPLICATION KIT FOR REFRIGERANT PIPING LENGTHS GREATER THAN 50 FT.
- PROVIDE LOW AMBIENT CONTROLS ON ALL CONDENSING UNITS.
- EXTEND FINNAGE FLUES UP THROUGH ROOF OR THRU WALL COMBINATION VENT PROVIDED WITH FURNAACES.
- TOILET EXHAUST FANS TO OPERATE WHEN ROOM LIGHT SWITCH IS ACTIVATED. MARKING KITCHEN FAN TO OPERATE BY SWITCH INTEGRAL TO UNIT.
- ALL LOUVER SIZES ARE FREE AREA. SIZE AT 500 FPM MAX.
- UNDERCUT ALL RESTROOM DOORS 1".
- DUCTS IN SANCTUARY TO BE FILLED W/ 1" THICK FIBERGLASS.
- PROVIDE SMOKE DETECTORS IN RETURN OF UNITS 2000 CFM OR GREATER.
- MOUNT THERMOSTATS 5' AFF AND PROVIDE LOCKABLE STEEL COVERS.
- PROVIDE PROGRAMMABLE THERMOSTATS.
- LINE SUPPLY AND RETURN DUCT IN SANCTUARY FOR ENTIRE LENGTH.
- LINE FIRST 10' OF SUPPLY AND RETURN IN ALL OTHER AREAS.
- INSULATE ALL DUCTWORK, OUTSIDE AIR DUCTS, REFRIGERANT LINES AND CONDENSATE LINES.
- DESIGN BASIS FOR AIR HANDLING EQUIPMENT IS CARRIER OR EQUAL.
- DESIGN BASIS FOR EXHAUST FANS IS PENN OR EQUAL.
- DESIGN BASIS FOR DIFFUSERS AND GRILLES IS TITUS OR EQUAL. COLOR BY ARCHITECT. COORDINATE WITH ELECTRICAL CEILING PLAN.
- PROVIDE FIRE DAMPERS IN DUCTWORK THRU RATED WALLS IF BLDGS. IS NOT FIRE PROTECTED.

REVISIONS	
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new facility for:
washington seventh day baptist church
 CRITTENDEN @ 16TH, WASHINGTON, D.C.

project no. 2K70009
 date: AUG. 18, 2008
 scale: AS SHOWN
 sheet no. **M1**