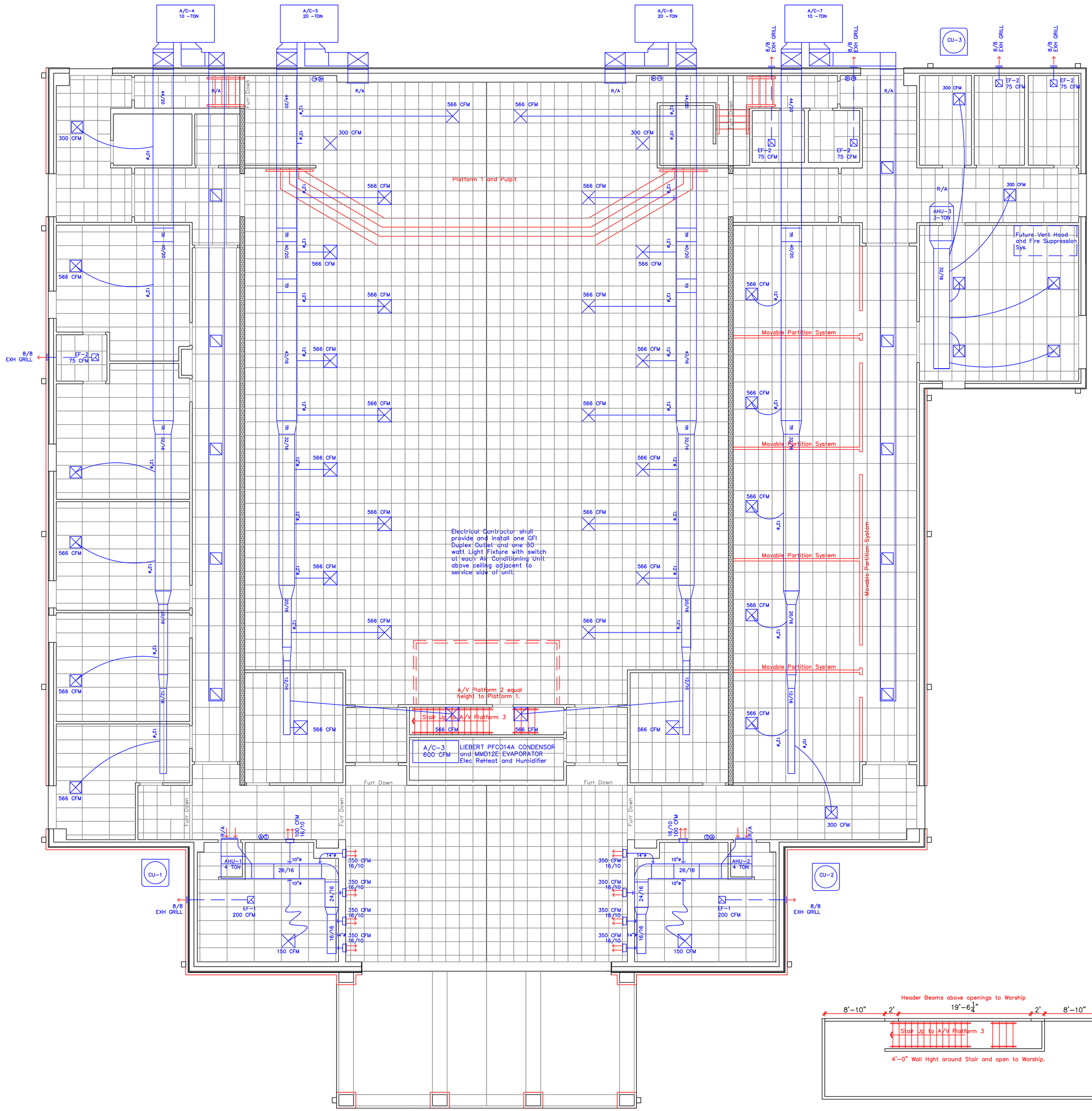





Plan North

1 M-1 AIR CONDITIONING HEATING AND VENT FLOOR PLAN
1/8"=1'-0"

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## HVAC SYMBOLS AND NOTES

T1 — Thermostat, see HVAC Notes.
R/A — Hvac Return Air
24 x 24 Hvac Supply Air, 4-Way Throw Cubic Feet / Minute Supply Air Indicated
AH1 — HVAC Air Handling Unit Above Ceiling
CU1 — HVAC Condensing Unit
EF1 — Exhaust Fan switch with room lights
SD — Duct Smoke Detector See HVAC notes

Heating, Ventilating and Air Conditioning (HVAC) shall comply with ASHRAE standards, latest edition.
All equipment and duct sizes shall be determined and/or verified by manufacturer's standard Heat Gain/Heat Loss Calculations using data from these plans and specifications.
HVAC shall be constructed in accord with NFPA 101:7-2.
All ducts shall be constructed in accord with Table No. 1, NFPA Pamphlet No. 90-A.
Provide Firestat set at 125 degrees fahrenheit in Return Air Inlet. Install Smoke Detectors to automatically stop the fan in duct systems over 2000 cubic feet per minute in accord with NFPA 90A:4-4.2.
Provide condensate drains for equipment with 5" trap. Condensing coils and drip pans shall be located to prevent condensate from blowing into ductwork. Drip pans shall be sloped toward drain line and p-trap to drain into sanitary sewer and shall be accessible for inspection and cleaning. Sizing of condensate lines shall not be less than manufacturer's specification.
Provide access to evaporator coil areas. No galvanized material in evaporator coil areas.
Provide 5-2 day type programmable thermostat with Heat, Cool, ON-OFF, Fan and Auto switches and locate thermostat 48-52" above finish floor in the near vicinity of the return air inlet.
Provide U.L. listed fire dampers in fresh air intakes.
Provide individual fused disconects for exterior condensers and fan units.
Rigid ductwork shall be lined with 1" acoustic liner at 1-½ lbs./cu.ft. and shall be U.L. listed and conform to NFPA 90-A. Ductwork shall have minimum R-5 insulation value.
Pre-insulated round flexible branch supply duct may be used to connect the last 10 feet of supply duct to diffuser only. Round duct take-off shall have air scoop and balancing damper and 90 degree elbows shall have single-radius turning vanes formed on standard vane runner.
Damper for outside fresh air intake rated at cfm required by manufacturer or not less than denoted in drawing with actual setting to be controlled by Owner.
Ceiling diffusers shall be Aluminum Opposed Blade Dampers.
Provide vapor return lines as sized by manufacturer and provide 18" U-shaped trap at condenser.
Verify doors, except fire-rated or smoke-rated doors, are sufficiently undercut and refinished for adequate return air passage.
All Toilet rooms shall be mechanically vented to exterior air at 75 cfm minimum through ductwork with weatherproof louver or cap. Control fan to operate with light fixtures in toilet rooms.
Provide U.L. listed fire dampers for all ductwork penetrating fire rated wall and ceiling assemblies as indicated on drawings.
Upon completion of the work, all systems shall be tested and balanced to provide cfm quantities indicated on drawings

**A New Facility for**
**1st Baptist Church Lacombe**
**62060 La Hwy 434**
Lacombe, Louisiana 70445-3260
St. Tammany Parish

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