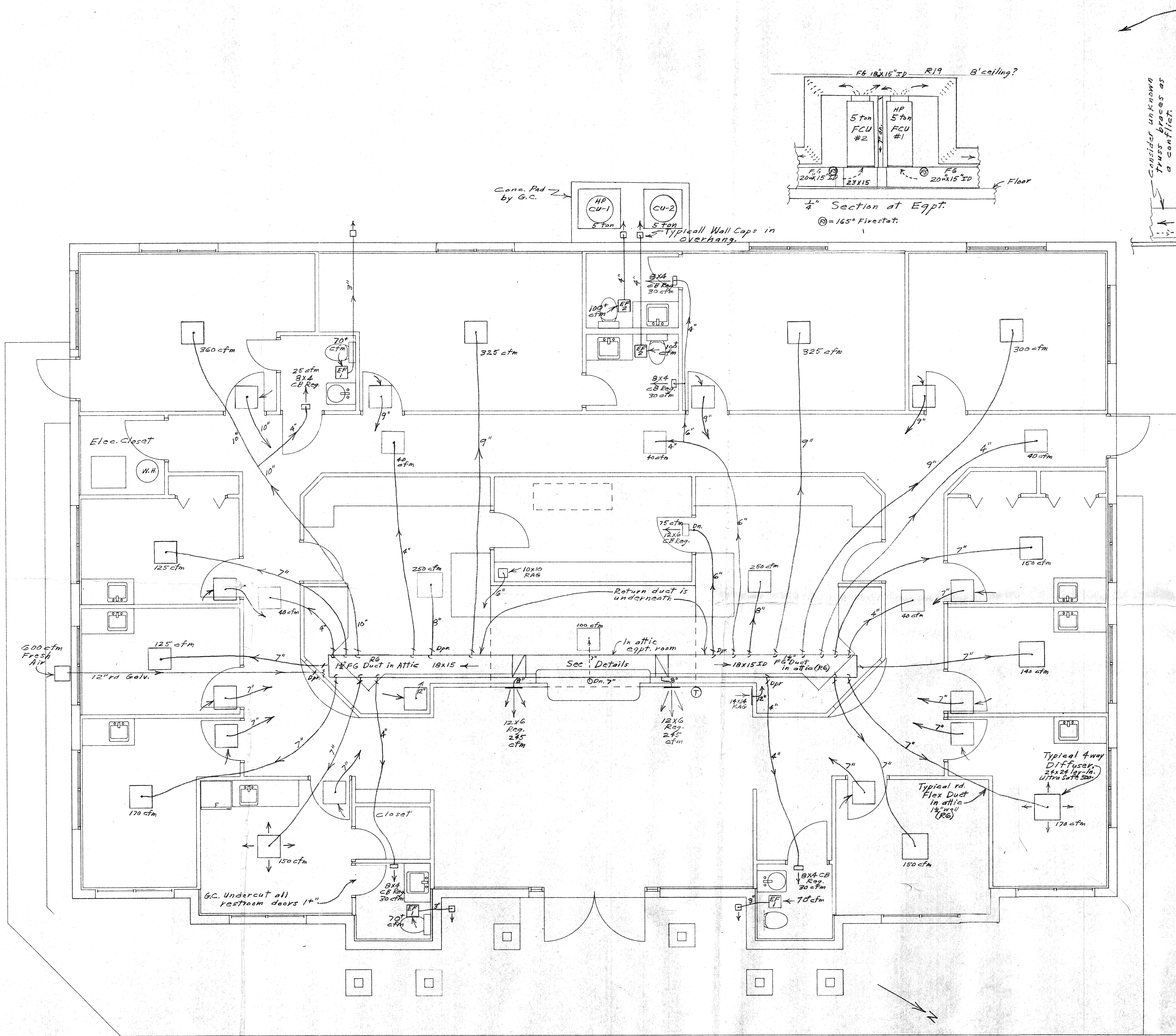
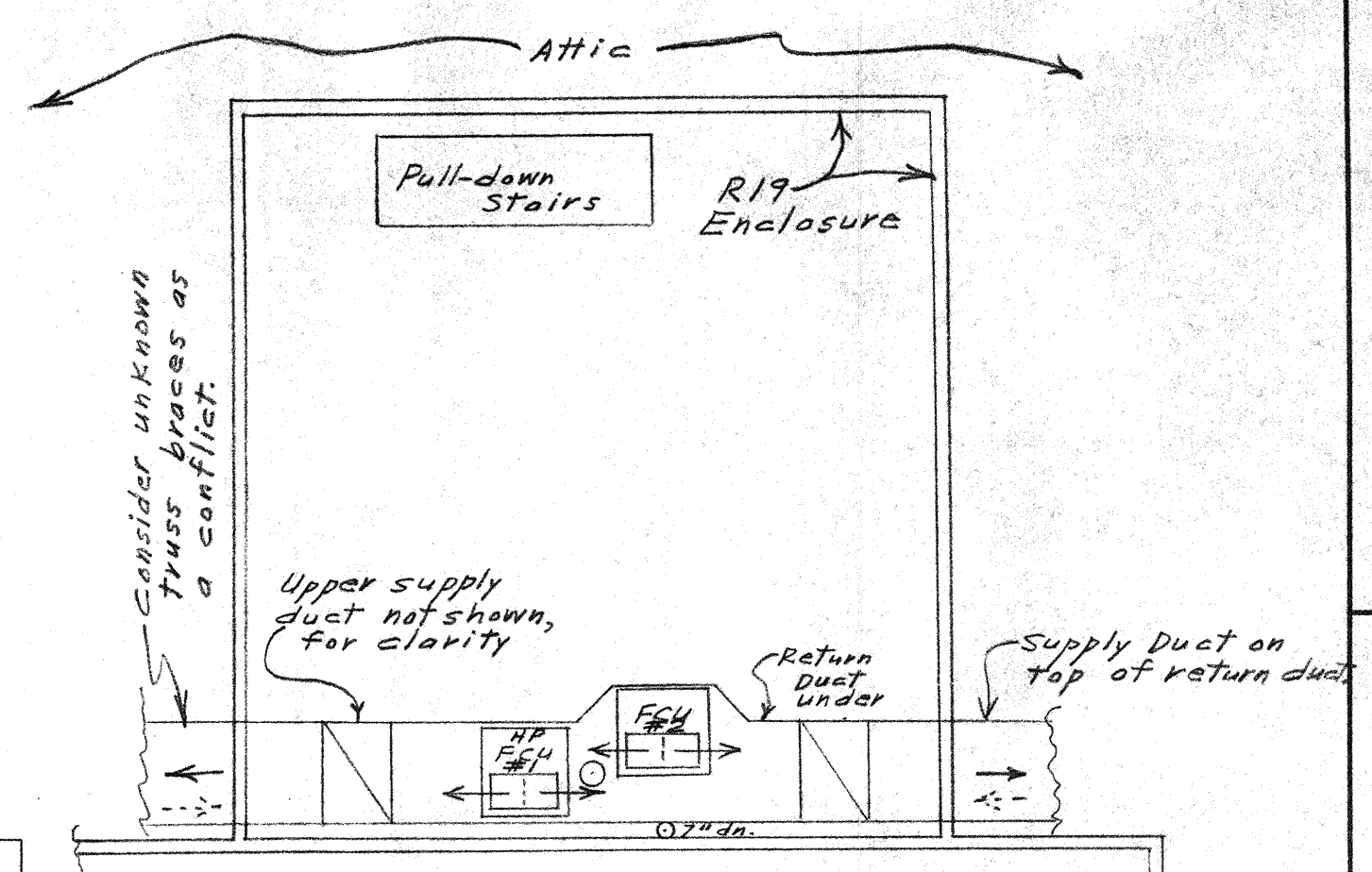
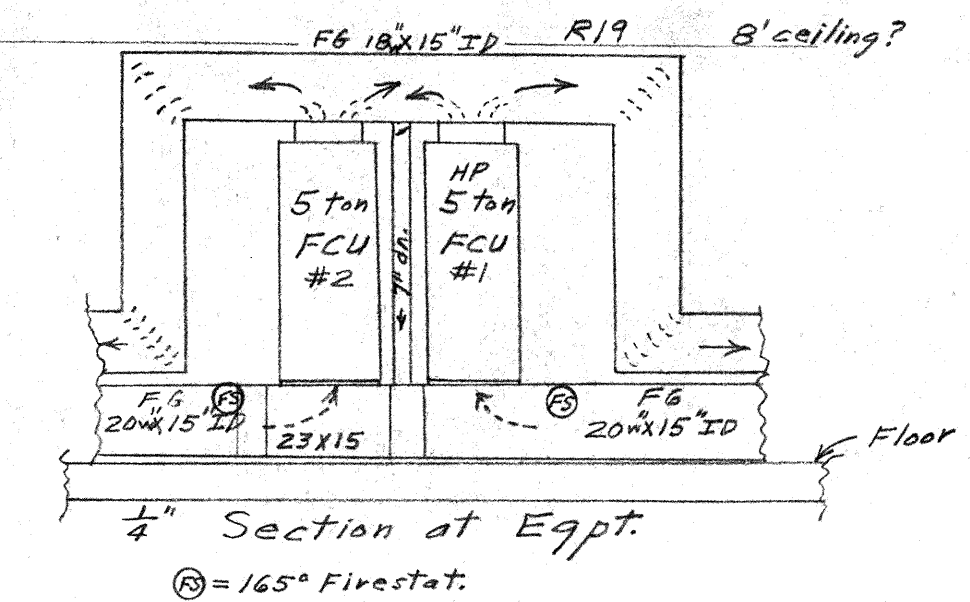




FLOOR PLAN-----1/4"



2nd Floor
Eght. Room
1/4" = 1'-0"

HVAC specifications:

1. All work shall be performed in compliance with all applicable laws, codes and regulations.
2. The air conditioning equipment shall be equal to:
Fan-Coil Units shall be 2 Bryant #F6ANB070. AC2 for the straight cooling system shall have a 7.5 KW @ 208/1 for 2nd stage heat. (AC1 has a heat pump for 1st stage heat). Each FCU weighs 199 lbs, has a 3/4 hp motor and pulls 5.4 @ 208/60/1 w/6.8MCA. Hang with 3/8" rods.
Condensing unit AC1 shall be a Bryant 5 ton #662A060 Heat Pump, 11.0 SEER, 55,500 BTUH ARI, is 208/60/1, 41.5 wire ampacity, 60a max breaker size, 33.5FLA.
Condensing unit AC2 shall be a Bryant 5 ton #562A060 straight cool, 11.0 SEER, 57,500 BTUH ARI & electric. Owner may elect to use similar 10.0 SEER equipment.
R22 piping shall be 1.125" & 3/8", installed per mfrs instructions, with the suction insulated with 1/2" foam rubber. Drains to be 3/4" PVC with 3/8" insulation on horizontal portions. In lieu of an auxiliary drain pan (not compatible with arrangement shown) use wet switches at overflow connection to shut off compressor. Run drains to grade near the rear condensing units & trap.
3. Control Scheme: A 2 stage cool, 2 stage heat low-voltage wall thermostat with automatic changeover, fed by a 24v transformer from an independent 115v circuit, will operate the stages to deliver 50%-100% capacity for the entire building; in most summer conditions one compressor will run constant and one will cycle on & off. In winter the first stage heat pump will normally be all that is needed; the 2nd stage 7.5KW - a backup. Both fan-coil units must operate together at all times to achieve uniform distribution. = 1.10 ton 2 circuit fan-coil unit. Interlock all restroom exhaust fans by relays to operate whenever the fan-coil units are on. A programmable thermostat is recommended, as an optional extra, to turn the system on & off more dependably. A zoning damper system is recommended, as an optional extra, to more accurately control area/room conditions.
4. The ceiling air diffusers and returns have been located to avoid the electrical fixtures as shown; they must be kept very close to where they are shown to give acceptable air patterns.
5. Exhaust Fans: Shall be Broan #671 @ 70cfm for EF1 & #676 @100+ cfm for EF2, or equal, interlocked as in #3. For exhaust duct use rigid round galvanized steel duct or flexible aluminum round duct, as appropriate.

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PROPOSED OFFICE BUILDING
For: DR. VINOD PATEL
FLORIDA
DAYTONA BEACH

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sheet title

HVAC

sheet

M-1

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