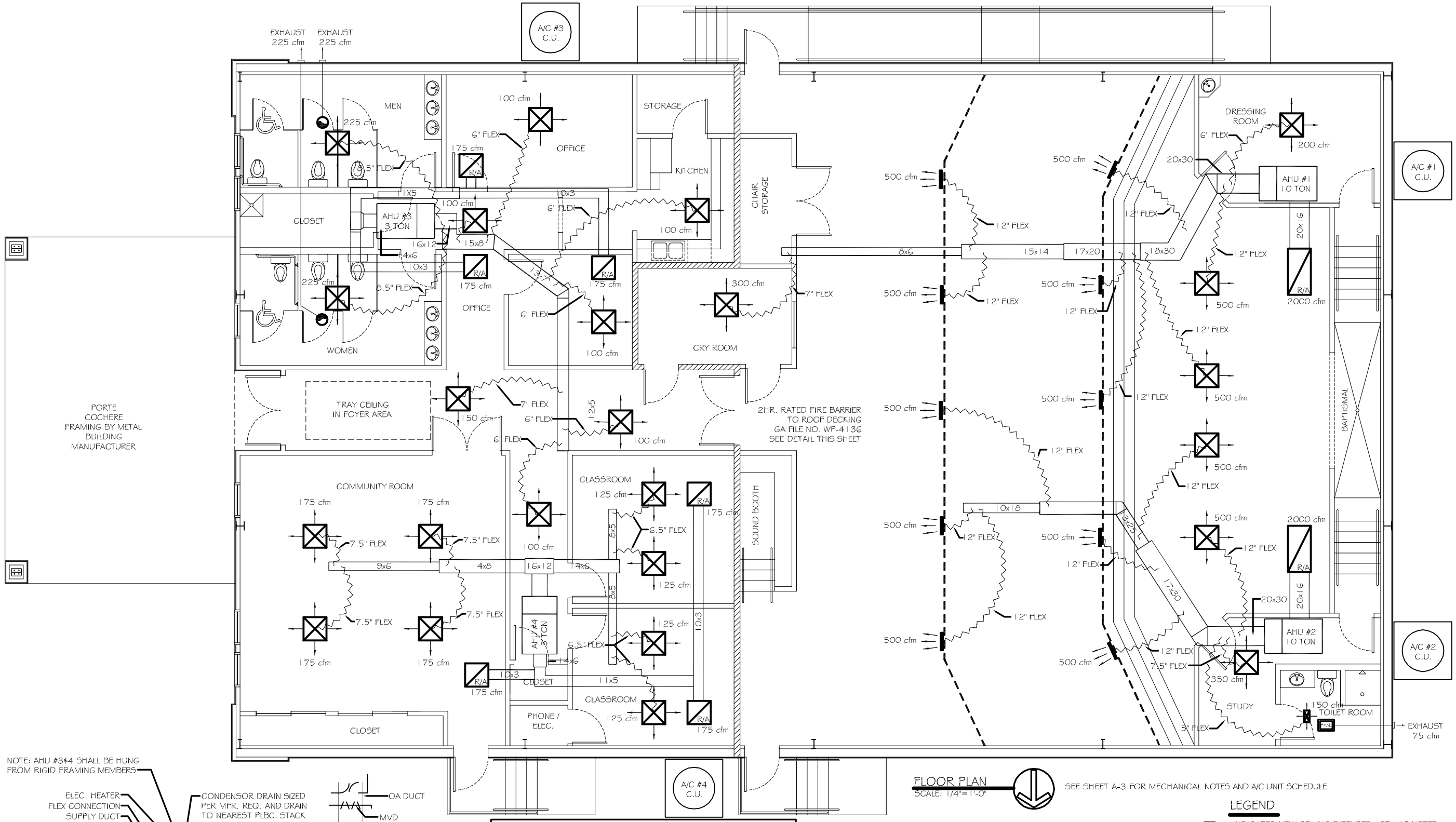
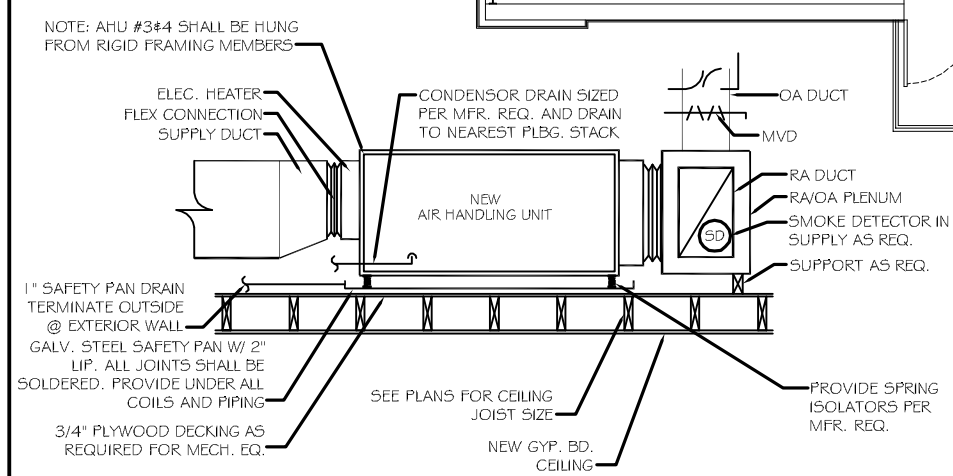



FLOOR PLAN
SCALE: 1/4"=1'-0"

SEE SHEET A-3 FOR MECHANICAL NOTES AND A/C UNIT SCHEDULE




TYPICAL HORIZONTAL AHU DETAIL
SCALE: N.T.S.

## FRESH AIR REQUIREMENTS PER IMC 2003, TABLE 403.3

| ROOM NAME | SQUARE FEET | CFM O.A. / OCC. | CFM O.A. | A/C ZONE | TOTAL REQ. O.A. |
|---|---|---|---|---|---|
| A/C #1-2 - TOTAL 2100 s.f. | | | | | |
| CORRIDORS | 1500 | 15 | 3375 | 1 | 4,005 CFM |
| STAGE | 600 | 15 | 630 | | |
| A/C #3 - TOTAL 1376 s.f. | | | | | |
| TOILET ROOMS | 330 | 75 / WC | 450 | 2 | 670 CFM |
| OFFICES | 260 | 20 | 40 | | |
| CRY ROOM | 115 | 20 | 154 | | |
| KITCHEN | 90 | 15 | 26 | | |
| A/C #4 - TOTAL 1382 s.f. | | | | | |
| COMMUNITY ROOM | 508 | 15 | 381 | 3 | 670 CFM |
| CORRIDOR | 524 | .05 / s.f. | 26.2 | | |
| CLASSROOMS | 350 | 15 | 262 | | |

## AIR BALANCE SCHEDULE

| | AHU-1 | AHU-2 | AHU-3 | AHU-4 | EF-1 | EF-2 |
|---|---|---|---|---|---|---|
| OUTSIDE AIR FLOW (CFM) | 2002.5 | 2002.5 | 670 | 670 | | |
| RETURN AIR FLOW (CFM) | 1997.5 | 1997.5 | 530 | 530 | | |
| SUPPLY AIR FLOW (CFM) | 4000 | 4000 | 1200 | 1200 | | |
| EXHAUST AIR FLOW (CFM) | | | | | 225 | 75 |
| BUILDING PRESSURE (CFM) | +2002.5 | +2002.5 | +670 | +670 | -225 | -75 |
| QUANTITIES | 1 | 1 | 1 | 1 | 2 | 1 |
| TOTAL PRESSURIZATIONS | +2002.5 | +2002.5 | +670 | +670 | -450 | -75 |
| REMARKS | | | | | | |
| | | | | | | |
| RESULTING BUILDING PRESSURIZATION (CFM) = +4820 | | | | | | |

## LEGEND

- INDICATES NEW CEILING DIFFUSER - CFM AS NOTED - 12 x 12 UNLESS OTHERWISE NOTED.
- INDICATES NEW RETURN AIR CEILING. RETURN AIR DUCT TO BE RECTANGULAR, SIZE AS INDICATED.
- EXHAUST FAN
- A/C UNIT
- THERMOSTAT
- INDICATES NEW SHEET METAL DUCTWORK, SIZES INDICATED ARE SHEET METAL DIMENSIONS. REFER TO SPECIFICATIONS FOR TYPE OF INSULATION.
- INDICATES NEW PRE-INSULATED FLEXIBLE DUCT SIZE PER PLAN - MAX LENGTH 10-0"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EXPERT WITNESS


EL-BETHEL PENTECOSTAL CHURCH

REV. EUGENE WELLINGTON ALLEN ROAD SLIDELL, LA

MECHANICAL PLAN

REV:

SCALE: AS NOTED

JOB#: 1819A

DATE: 11-19-08

SHEET 18

M-1

OF 20