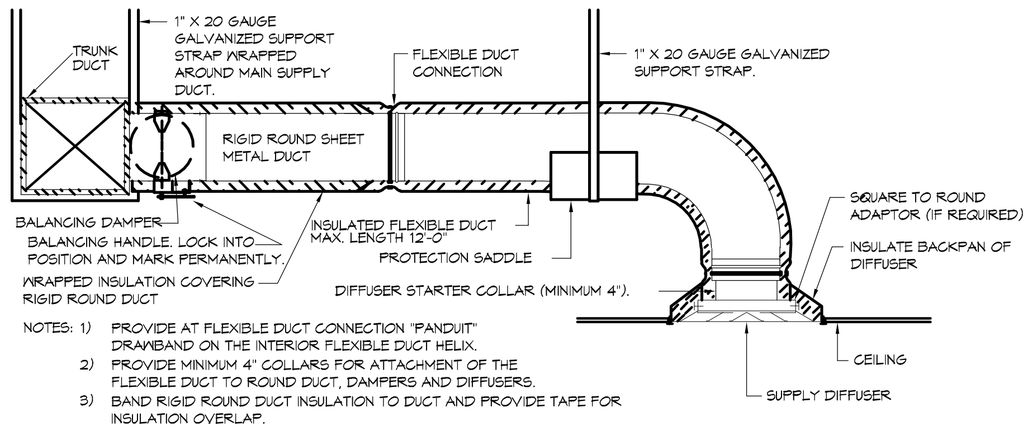



NOTES: 1) PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
3) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

A/C CONDENSER UNIT SCHEDULE TOTAL HVAC TONS = 3

| NO. | TOTAL BTU | TOTAL TONNAGE | ELECTRICAL VOLTAGE | MCA | CKT BRKR | MANUFACTURER |
|---|---|---|---|---|---|---|
| 1 | 42,000 | 3-1/2 TON | 120/208 | 26 | FNL-?,? | RHEEM OR EQUAL |
| | | (12.3 kw) | 40 amp bkr | 1 ph | 2 POLE | |

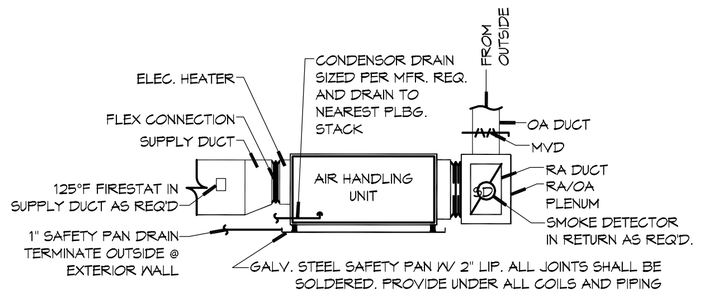
A/C AIR HANDLING UNIT SCHEDULE TOTAL HVAC TONS = 3.0

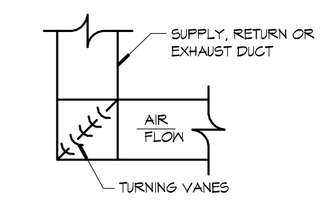
| NO. | TOTAL BTU | CFM | O.A. | HEAT ELEC. | ELECTRICAL VOLTAGE | MCA | CKT BRKR | MANUFACTURER |
|---|---|---|---|---|---|---|---|---|
| 1 | 42,000 3-1/2 TON | 1,400 | 84 | 10 kw | 120/208 | 58 | FNL-?,? | RHEEM OR EQUAL |
| | | | | | 1 ph | | 2-POLE 60 amp bkr | |

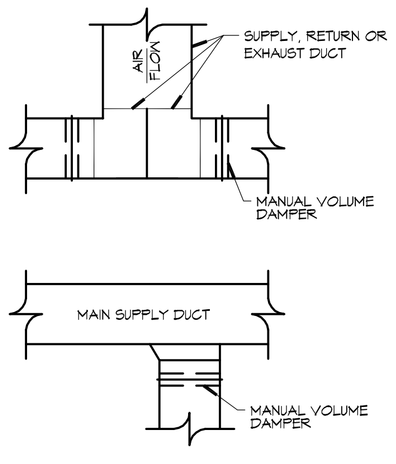
NOTE: ALL AIR HANDLING UNITS TO HAVE A SINGLE-POINT CONNECTION FOR THE BLOWER & HEATING ELEMENT.

FRESH AIR REQUIREMENTS PER IMC 2009 TABLE 403.3

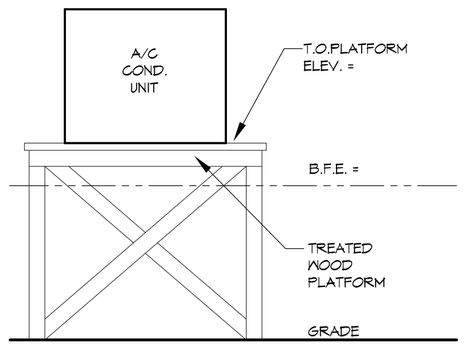
| ROOM NAME | SF | OCC/ 1000 SF | CFM/ OCC | CFM/ SF | TOTAL OA |
|---|---|---|---|---|---|
| AHU-3.0 TON | | | | | 84 |
| BUILDING | 1400 | 5.6 | 15.0 | - | 84 |
| | | | | | |



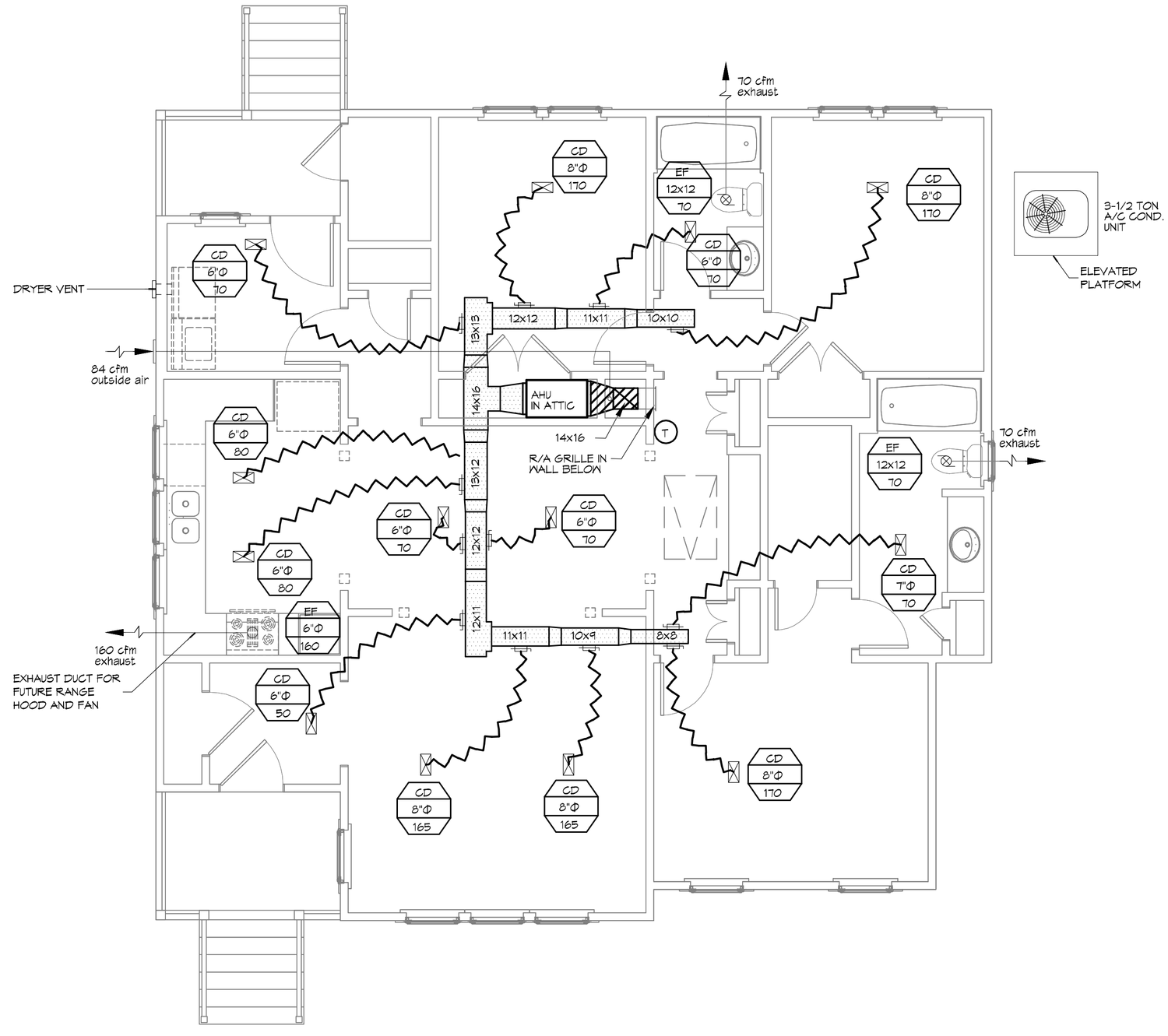




NOTE: INSTALL FIRE DAMPER AT ANY LOCATION WHERE DUCT PENETRATES A FIRE WALL.




A/C ELEVATED PLATFORM DETAIL
N.T.S.

DETAIL
SCALE: NTS ELEVATED A/C PLATFORM




1 MECHANICAL PLAN - HVAC
SCALE: 1/4" = 1'-0"

## MECHANICAL NOTES

1. SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND REQUIREMENTS OF LOCAL UTILITY OFFICIALS. DESIGN ENGINEER SHALL PREPARE CALCULATIONS FOR EQUIPMENT SIZING, DUCT SIZING, ACCESSORY ARRANGEMENT, ETC., AND SHALL PREPARE FINAL DRAWING ACCORDINGLY.
2. FURNISH ALL DUCT WORK, CONTROL WIRING, PIPING, FITTINGS, ACCESSORIES, ETC. FOR COMPLETE INSTALLATION.
3. INSULATE ALL HEATING OR CONDENSOR WATERLINES IN UN-INSULATED SPACES W/TUBULAR FOAM INSULATION. INSULATION SHALL BE OF SELF SEALING TYPE OR SHALL BE TAPED CLOSED W/FOIL FACED TYPE.
4. CLOSELY COORDINATE WORK WITH ALL OTHER TRADES. MAINTAIN CEILING HEIGHTS AND DUCT SPACES PROVIDED.
5. ALL VALVES, DAMPERS AND OTHER CONTROL DEVICES SHALL BE ACCESSIBLE FOR OPERATION AND MAINTENANCE THROUGH ACCESSIBLE CEILINGS OR THROUGH ACCESS DOORS OR PANELS MANUFACTURED FOR SUCH PURPOSES.
6. ALL UNITS ABOVE CEILING SHALL HAVE AUXILIARY DRAIN PANS INSTALLED BELOW ENTIRE UNIT.
7. COORDINATE WITH ELECTRICIAN CONCERNING ITEMS REQUIRING ELECTRICAL SERVICE SUCH AS CONDENSING UNITS, AIR-HANDLING UNITS, CONDENSATE PUMPS, MOTORIZED DAMPERS, ETC. COORDINATE SERVICE AND CAPACITY REQUIRED.
8. THE BUILDER SHALL TEST PRESSURE-REDUCING VALVES, T&P RELIEF VALVE AND OTHER SAFETY DEVICES PRIOR TO OPERATING SYSTEM. THE BUILDER SHALL TEST AND BALANCE ALL SYSTEMS PRIOR TO COMPLETION OF THE WORK.
9. COORDINATE DIFFUSER LOCATIONS WITH LIGHT FIXTURES. REFER TO REFLECTED CEILING PLAN

## HVAC LEGEND

- -SUPPLY AIR DIFFUSER
- -EXHAUST FAN
- -OUTSIDE AIR INTAKE DUCT
- -THERMOSTAT
- -DAMPER
- -SUPPLY AIR DUCT
- -RETURN AIR DUCT
- -A/C CONDENSING UNIT
- AHU -AIR HANDLING UNIT
- - ROUND FLEX DUCT, MAX. LENGTH 14'-0", MIN. R-6. PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS, SIZE AS INDICATED OR: 0-200 CFM, USE 6"Ø 201-300 CFM, USE 8"Ø 301-400 CFM, USE 9"Ø

NOTE-1: MECHANICAL PLAN IS DRAWN DIAGRAMATIC. DUCT LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE AS NEEDED BETWEEN JOISTS OR TRUSSES.

NOTE-2: COORDINATE LOCATION OF ALL SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES, EXHAUST FANS, ETC... WITH LIGHTING PLAN.

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| # | DESCRIPTION | DATE |
|---|---|---|
| | REVISIONS | |

SEAL:

**50% SUBMITTAL**

**NOT FOR CONSTRUCTION**

LOUISIANA ARMY NATIONAL GUARD
CAMP VILLERE
NEW COMMANDER'S POST
SLIDELL, LA

JOB No: 2210 | DATE: JULY 22, 2014
DRAWN BY: JTL | CHECKED BY: CKD

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SHEET TITLE:
MECHANICAL PLAN - HVAC, DETAILS AND NOTES

DRAWING NUMBER:
M1

SHEET No: 00 of 10