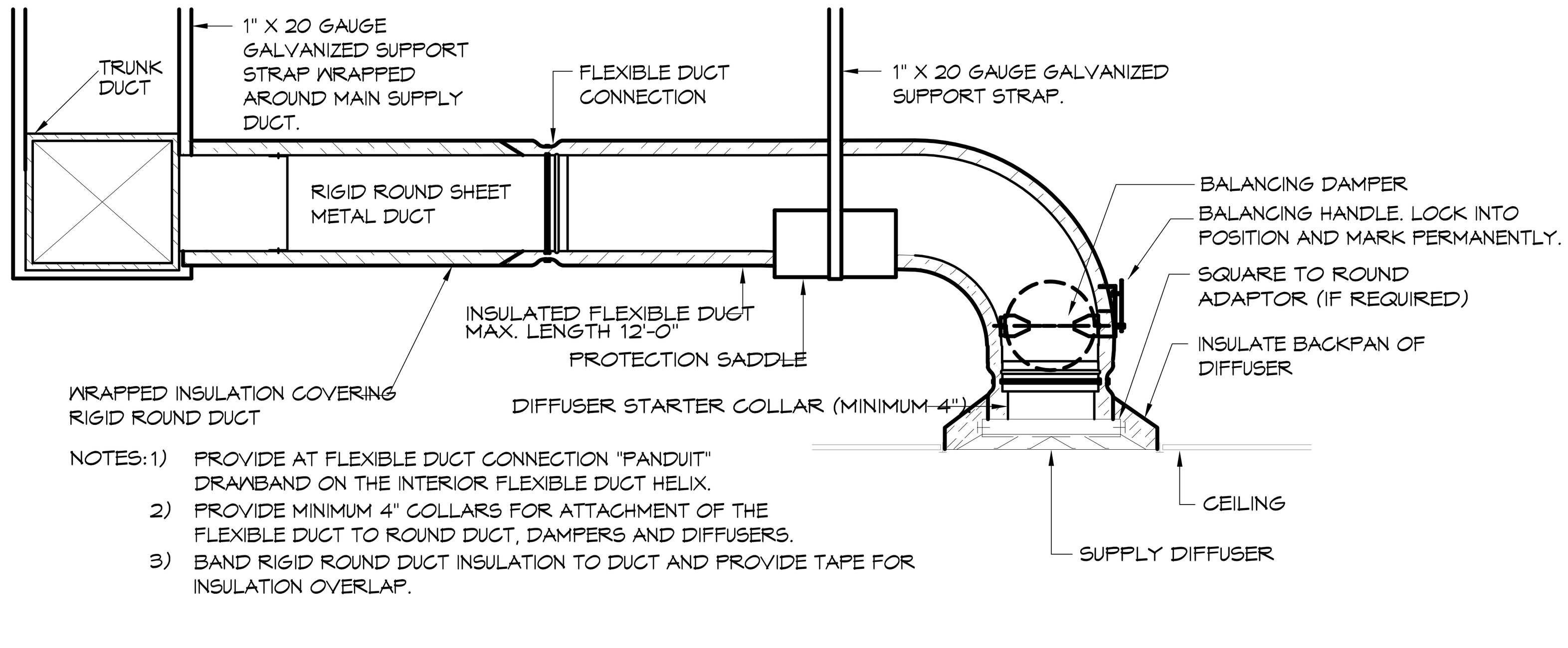
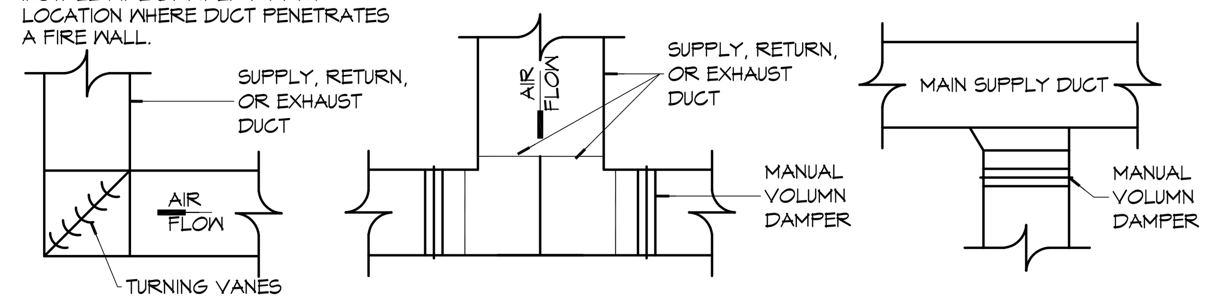


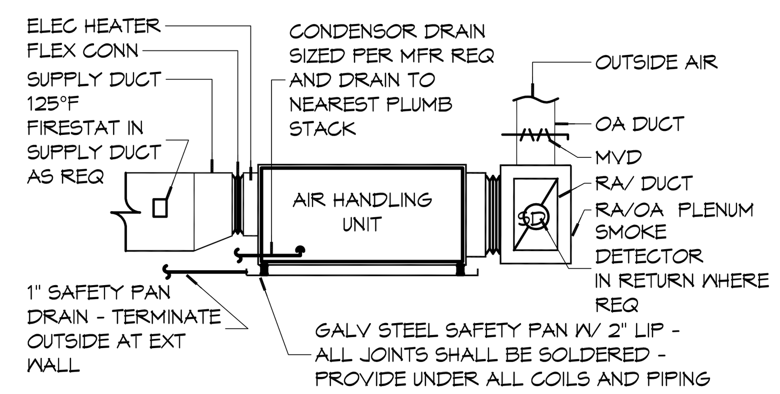
NOTES: 1) PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
3) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

2 TYPICAL CEILING DIFFUSER & DUCTWORK
SCALE: N.T.S.

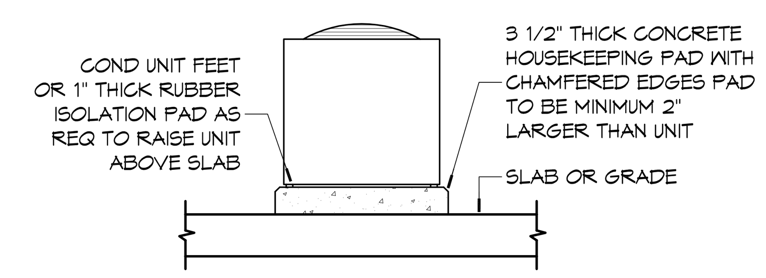
NOTE:
INSTALL FIRE DAMPER AT ANY LOCATION WHERE DUCT PENETRATES A FIRE WALL.



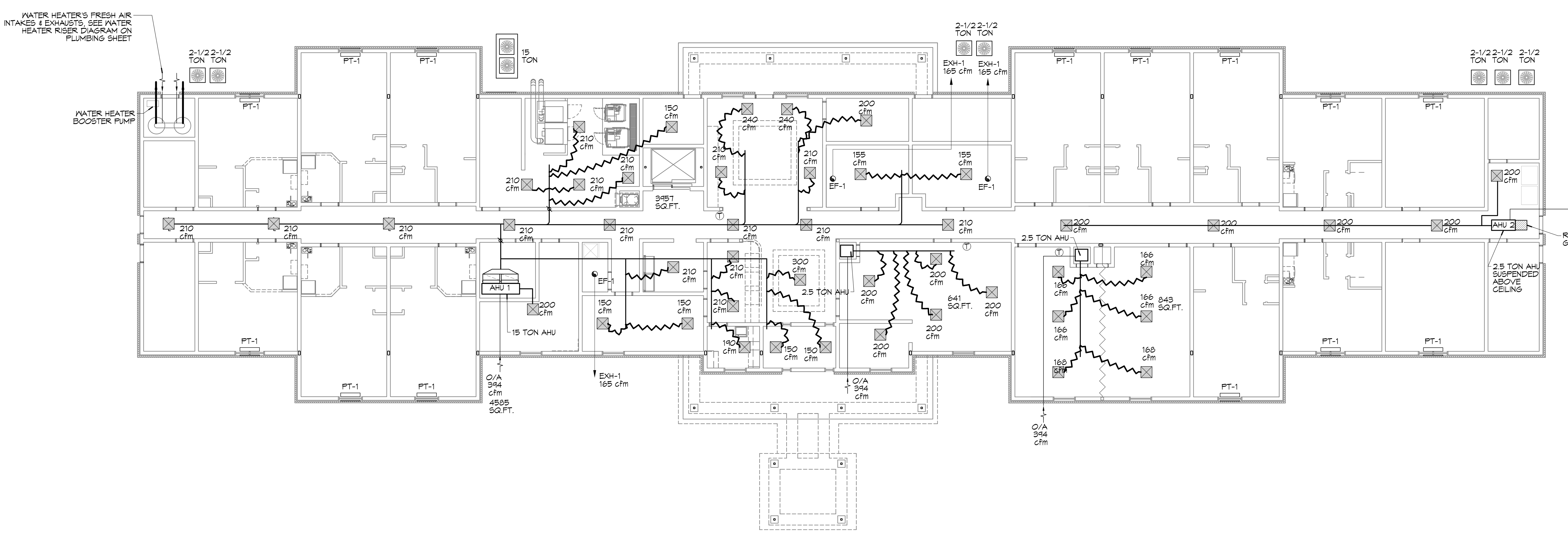
3 TYPICAL HARD DUCT DETAILS
SCALE: N.T.S.



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



5 TYPICAL A/C CONDENSER DETAIL
SCALE: N.T.S.



1 MECHANICAL PLAN - LEVEL 1
SCALE: 3/32"=1'-0"

A/C UNIT SCHEDULE

TOTAL Btu		ELECTRICAL VOLT	MCA	MAX O.C.P.	MFR
180,000 Btu 15 TON	AC	208V, 3Ø	66.3	80	TRANE OR EQUAL
36,000 Btu 2 1/2 ton	AC	208V, 3Ø	10.0	15	

AHU UNIT SCHEDULE

TOTAL Btu	CFM	OA	HEAT (KW)	ELECTRICAL VOLT	MCA	MAX O.C.P.	MFR
180,000 Btu 15 TON	6000	394	22.5	208V, 3Ø	81.0	90	TRANE OR EQUAL
36,000 Btu 2 1/2 TON	1000	43	10	208V, 1Ø	49.1	60	

PTAC SCHEDULE

UNIT	TOTAL BTU	CFM	OA	HEAT (KW)	ELECTRICAL VOLT	MCA	MAX O.C.P.	MFR
PT-1 GUESTROOMS	9,000	360	36	3.5	208V, 3Ø	19.5	20	AMANA

EXHAUST FAN SCHEDULE

FAN NO.	CFM	VOLTAGE	TYPE	MFR/LOCATION
EXH-1	165	120	VENT	BROAN-L150MG

NOTE:
1. ALL FANS INSTALLED IN RATED ASSEMBLIES SHALL BE EQUIPPED W/ APPROPRIATE FIRE DAMPER TO MATCH ASSEMBLY FIRE RATING.
2. PAINT ALL SHUTTERS AND EXTERIOR GRILLES TO COLOR SPECIFICATION BY ARCHITECT.
3. PROVIDE BIRDSCREENS ON ALL SHUTTERS AND EXTERIOR GRILLES.
4. PROVIDE BACK FLOW PREVENTER ON ALL EXHAUST SYSTEMS.

GENERAL HVAC NOTES

1. OWNER HAS THE OPTION FOR AMANA DIGITAL SYSTEM FOR PTAC UNITS. OPTION IS AVAILABLE TO HAVE WIRED REMOTE THERMOSTATS FOR PTAC UNITS.
2. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
4. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
5. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
6. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
7. PROVIDE UL LISTED 125 'F' FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
8. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
9. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
10. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
11. ALL THERMOSTATS TO BE AUTOMATIC CHANGE-OVER WITH HEAT SWITCH.
12. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
13. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
14. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
15. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
16. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
17. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
18. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
19. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY, CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
20. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
21. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
22. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
23. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
24. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
25. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
26. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
27. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
28. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

LEGEND

- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN
- OUTSIDE AIR INTAKE DUCT WITH VOLUME DAMPER AND MOTORIZED OR GRAVITY DAMPER TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
- THERMOSTAT W/LOCKABLE BOX
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6, PROVIDE MANUAL DAMPER AT DIFFUSER CONNECTIONS. DUCT SIZE AS FOLLOWS: 250CFM TO 350CFM = 9", 200CFM TO 250CFM = 8", 150CFM TO 200CFM = 7", 100CFM TO 150CFM = 6"
- A/C CONDENSING UNIT
- SUPPLY / AHU / RETURN - AHU UNIT

NOTE: PROVIDE THRU-WALL PTAC UNITS IN ALL GUEST ROOMS AND IN TEL/VIDEO ROOM 130. FLOORS 2, 3, & 4 ALSO GET PTAC UNITS AT EACH END OF THE MAIN CORRIDOR, SEE SHEET M102.

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832 F: 985.641.5950

REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
02-19-16
PROFESSIONAL ENGINEER

MAIN STAY SUITES
700 MAIN STREET
LOT #7 LA HWY 27
HACKBERRY, LA 70645

JOB No:	2265	DATE:	FEBRUARY, 2016
DRAWN BY:	CKD	CHECKED BY:	BAM

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SHEET TITLE:
MECHANICAL PLAN - LEVEL 1

DRAWING NUMBER:
M101