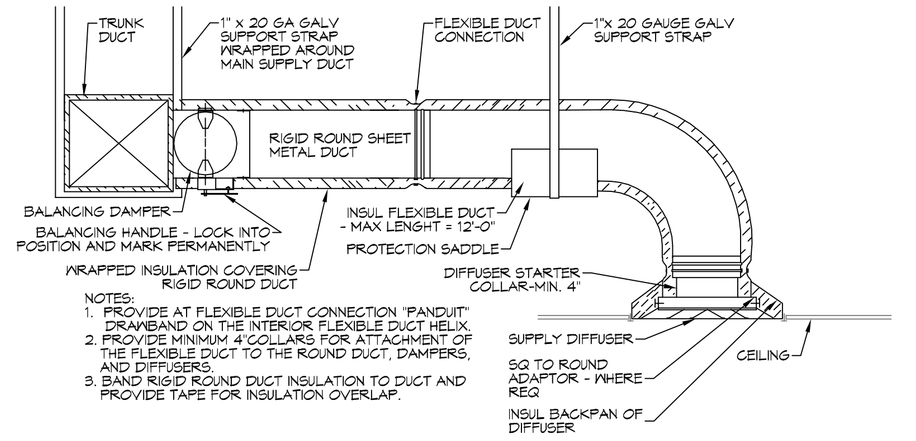
PTAC AIR UNIT SCHEDULE

TAG	AREA SERVED	BARD MODEL NO.	NOMINAL TONS	TOTAL CFM	OA CFM	COOLING TMBH	COOLING EDB °F	COOLING EWB °F	Motor HP	ESP "W.C.	HEAT IDM	POWER W.C.	POWER PH	POWER MCA	REMARKS
	AIR HANDLER														
AS-1	Auditorium - 101	WA425-A09-U	3.5	1360	260	42	80.1	73.8	1/3	0.4	3.6	208	1	35	1, 2, 3, 4
AS-2	Auditorium - 101	WA425-A09-U	3.5	1420	260	42	80.1	73.8	1/3	0.3	3.6	208	1	35	1, 2, 3, 4
AS-3	Auditorium - 101	WA425-A09-U	3.5	1420	260	42	80.1	73.8	1/3	0.3	3.6	208	1	35	1, 2, 3, 4
AS-4	Auditorium - 101	WA425-A09-U	3.5	1440	260	42	80.1	73.8	1/3	0.3	3.6	208	1	35	1, 2, 3, 4
AS-5	Classroom 109	WA425-A09-U	3.5	1400	380	42	83.6	72.5	1/3	0.3	3.6	208	1	35	1, 2, 3, 4
AS-6	Classroom 110	WA425-A09-U	3.5	1400	380	42	83.6	72.5	1/3	0.3	3.6	208	1	35	1, 2, 3, 4
AS-7	Classroom 111	WA425-A09-U	3.5	1420	380	42	83.6	72.5	1/3	0.3	3.6	208	1	35	1, 2, 3, 4
AS-8	Classroom 112	WA425-A09-U	3.5	1420	380	42	83.6	72.5	1/3	0.3	3.6	208	1	35	1, 2, 3, 4
AS-9	Lobby & Corridor	WA275-A09-U	2	1100	220	38	80.6	69.7	1/3	0.3	3.6	208	1	30	1, 2, 3, 4

NOTES:

1. Provide available field media, single point power connection, condensate heat, time delay relay & crankcase heater. Provide with accessible cover.
2. Cooling capabilities to be rated in accordance with AHRI standard 210/240 for ASHRAE standard design weather conditions in New Orleans, LA.
3. Install units in accordance with manufacturer's recommendations.
4. Coordination with Architect/Owner for colors and finishes.



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 THE ROUND DUCT, DAMPERS, AND DIFFUSERS.
3. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

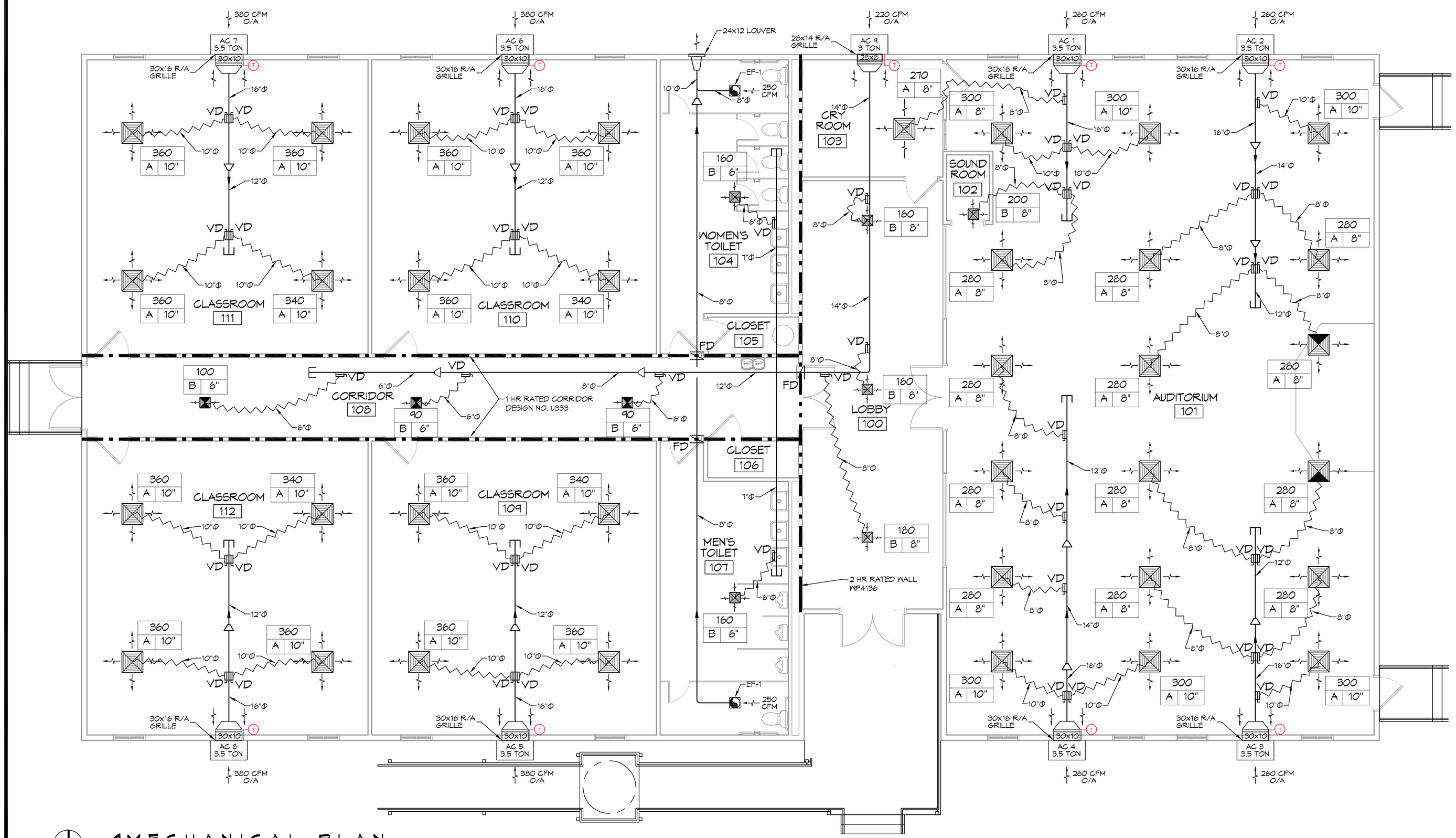
2 DETAIL
SCALE: 1/4"=1'-0"
FLEX DUCT CONNECTION

LEGEND

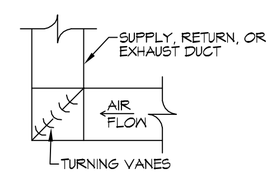
- SUPPLY AIR GRILLE
- EXHAUST FAN
- THERMOSTAT
- SUPPLY AIR DUCT
- DAMPER CONTROL
- FIRE DAMPER
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS. DUCT SIZE AS FOLLOWS:
  250 CFM TO 350 CFM = 9"
  200 CFM TO 250 CFM = 8"
  150 CFM TO 200 CFM = 7"
  100 CFM TO 150 CFM = 6"

MECHANICAL HVAC NOTES

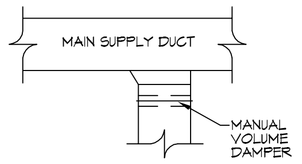
1. ALL WALL MOUNTED AHU'S UNITS ARE EXISTING AND ARE TO BE REUSED WITH NEW DUCTWORK. ALL NEW DUCTWORK IS DRAWN DIAGRAMMATICALLY AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND INSTALLATION.
2. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED 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 PLUMBER'S P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. ALL RESTROOM EXHAUST FAN(S) SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
15. 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).
16. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY, CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
17. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
18. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
19. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
20. 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, IF REQUIRED.
21. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
22. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
23. CONTRACTOR SHALL PROVIDE A MEANS FOR ATTIC VENTILATION FOR THE MOVEMENT OF AIR ABOVE DROP CEILING(S) EITHER BY MECHANICAL VENTS OR POWER VENTS.



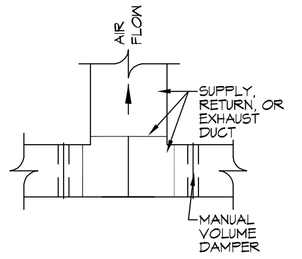
1 MECHANICAL PLAN
SCALE: 3/16"=1'-0"



3 DETAIL
SCALE: 1/4"=1'-0"
HARD DUCT ELBOW



4 DETAIL
SCALE: 1/4"=1'-0"
HARD DUCT BRANCH



5 DETAIL
SCALE: 1/4"=1'-0"
HARD DUCT SPLIT

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#	DESCRIPTION	DATE
	REVISIONS	

THE CROSSING
64452 HIGHWAY 41
PEARL RIVER, LA 70452

JOB No:	23-54	DATE:	10/23/2018
DRAWN BY:	RLD	CHECKED BY:	CKD

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SHEET TITLE:
MECHANICAL PLAN

DRAWING NUMBER:
M101

SHEET No: 11 of 14