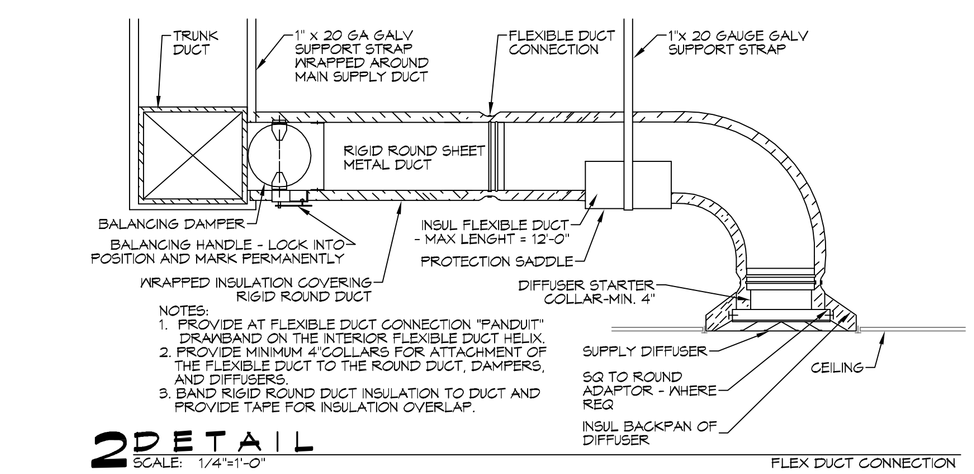


NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2. PROVIDE MINIMUM 4"COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO THE ROUND DUCT, DAMPERS, AND DIFFUSERS.
3. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

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

FLEX DUCT CONNECTION

A/C SYSTEM SCHEDULE - PHASE A

TAG	Make	Model	NOMINAL TONS	AIR HANDLER TOTAL CFM	OA CFM	Motor HP	ESP (" WC)	Heat kW	POWER VAC	HZ	PH	MCA (1)	TAG	Make	Condenser Make / Model (8)	POWER VAC	HZ	PH	MCA	REMARKS
AH-1	CARRIER	FX4DNB0610	5	1900	360	3/4	0.4	15	230	60	1	83.4	C-1	CARRIER	CA16NA061	230	60	1	32.5	1, 2, 3
AH-2	CARRIER	40RUAA08	7.5	3150	540	2.4	0.5	25	208	60	3	71.7	C-2	CARRIER	38AUZA08	208	60	3	34.3	1, 2, 3
AH-3	CARRIER	FX4DNB042	3.5	1450	420	1/2	0.4	5	230	60	1	33.5	C-3	CARRIER	CA18NA042	230	60	1	23.6	1, 2, 3
AH-4	CARRIER	40RUAA08	7.5	2550	930	2.4	0.5	25	208	60	3	71.7	C-4	CARRIER	38AUZA08	208	60	3	34.3	1, 2, 3

NOTES:
(1) INCLUDES BLOWER MOTOR AMPS
(2) INSTALL UNITS / DUCTWORK IN ACCORDANCE WITH ASHRAE, SMACNA AND MANUFACTURER RECOMMENDATIONS.
(3) FURNISH WITH WIRED 24 / 7 THERMOSTAT AND LOCKABLE COVER.

MIN-SPLIT SCHEDULE

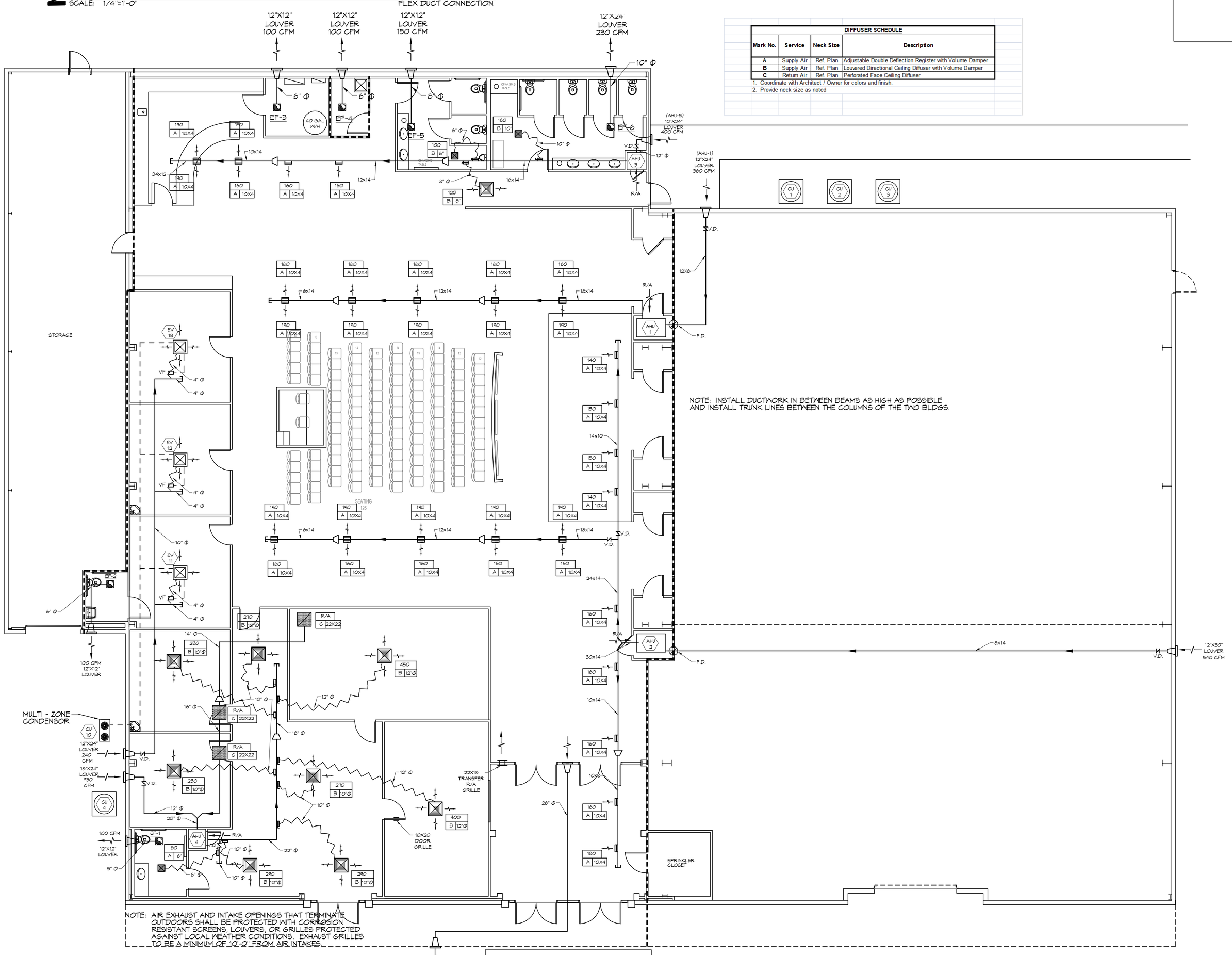
AIR HANDLER Tag	Make/Model	Cooling (MBH)	Power VAC	Ph	Amps	Remarks	HEAT PUMP Tag	Make/Model	Cooling Capacity (MBH)	Heating Capacity (MBH)	Power VAC	PH	MCA	Remarks
EV-11	DAIKIN FFQ15QSVJU	15	208	1	0.29	1, 2, 3								
EV-12	DAIKIN FFQ15QSVJU	15	208	1	0.29	1, 2, 3	CU-10	DAIKIN RMXS48LVJU	48	54	208	1	27	4, 5
EV-13	DAIKIN FFQ15QSVJU	15	208	1	0.29	1, 2, 3								

NOTES:
1 Wired Remote Control
2 Wired Condensate Pump
3 Fresh Air Kit with Vent Fan
4 Branch Provider Unit
5 Refnet Kit

DIFFUSER SCHEDULE

Mark No.	Service	Neck Size	Description
A	Supply Air	Ref. Plan	Adjustable Double Deflection Register with Volume Damper
B	Supply Air	Ref. Plan	Louvered Directional Ceiling Diffuser with Volume Damper
C	Return Air	Ref. Plan	Perforated Face Ceiling Diffuser

1. Coordinate with Architect / Owner for colors and finish.
2. Provide neck size as noted



NOTE: AIR EXHAUST AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE PROTECTED WITH CORROSION RESISTANT SCREENS, LOUVERS, OR GRILLES PROTECTED AGAINST LOCAL WEATHER CONDITIONS. EXHAUST GRILLES TO BE A MINIMUM OF 10'-0" FROM AIR INTAKES.

1 MECHANICAL PLAN PHASE "A"
SCALE: 1/8"=1'-0"

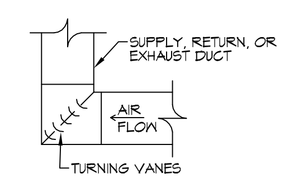
N

LEGEND

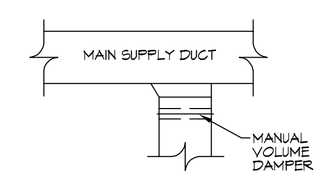
- SUPPLY AIR GRILLE
- EXHAUST FAN
- THERMOSTAT
- SUPPLY AIR DUCT
- DAMPER CONTROL
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS. DUCT SIZE AS FOLLOWS:
  300 CFM TO 450 CFM = 12"
  200 CFM TO 300 CFM = 10"
  100 CFM TO 200 CFM = 8"
  40 CFM TO 100 CFM = 6"

MECHANICAL HVAC NOTES

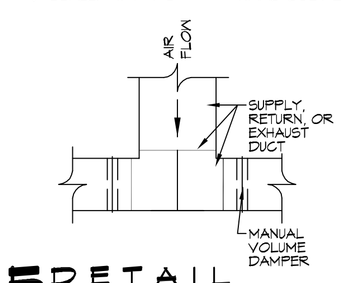
1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. 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.
6. 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.
7. 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.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
10. 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.
11. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
12. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
13. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
14. 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).
15. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
16. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
17. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
18. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
19. 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.
20. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
21. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
22. CONTRACTOR SHALL PROVIDE A MEANS FOR ATTIC VENTILATION FOR THE MOVEMENT OF AIR ABOVE DROP CEILING(S) EITHER BY MECHANICAL VENTS OR POWER VENTS.



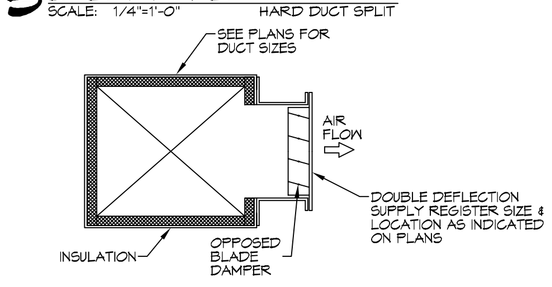
3 DETAIL
SCALE: 1/4"=1'-0" HARD DUCT ELBOW



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



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



6 DETAIL
SCALE: 1/4"=1'-0" GRILLE ON EXPSOED DUCT

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REVISIONS

#	DESCRIPTION	DATE

GRACE FELLOWSHIP
34482 MILLS ALLEY
PEARL RIVER LA

JOB No:	2340
DATE:	02/07/2018
DRAWN BY:	JTL
CHECKED BY:	BAM

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SHEET TITLE:
MECHANICAL PLAN
PHASE A

DRAWING NUMBER:
M101

SHEET No: 12 of ?