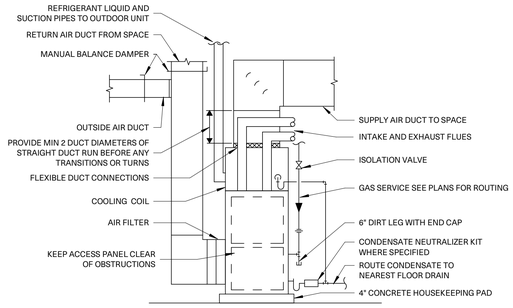
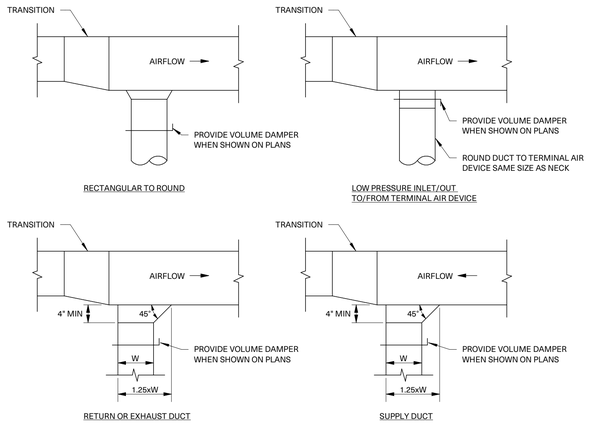
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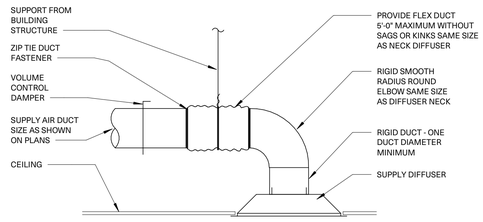
HIGH EFFICIENCY GAS FURNACE AND COOLING COIL DIAGRAM AND INSTALLATION DETAIL

NO SCALE



RECTANGULAR BRANCH DUCT DETAILS

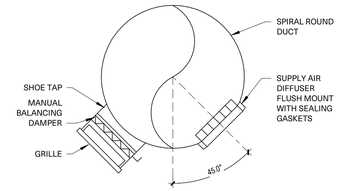
NO SCALE



NOTE: MAY CONNECT FLEXIBLE DUCT TO DIFFUSER INLET IF A FLEXIBLE DUCT ELBOW SUPPORT IS PROVIDED.

ROUND NECK SUPPLY AIR DIFFUSER DETAIL

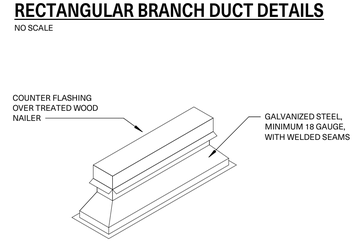
NO SCALE



EXPOSED ROUND DUCT DIFFUSER DETAIL

NO SCALE

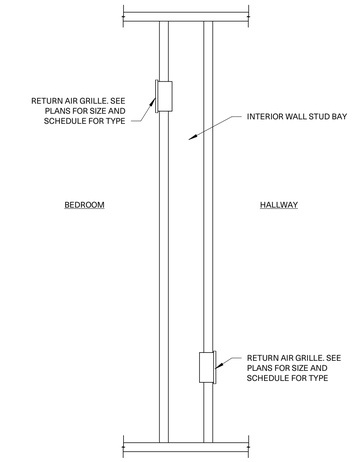
NOTES:
1. REFER TO FLOOR PLAN FOR LOCATION AND QUANTITY.
2. REFER TO SCHEDULES FOR MOUNTING/GRILLE TYPE



GENERAL NOTES:
1. INSTALLATION MUST COMPLY WITH DAMPER MANUFACTURE'S U.L. LABEL INSTALLATION REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR WALL TYPE. PROVIDE LINTEL OR METAL STUD FOR WALL OPENING AS REQUIRED.

VERTICAL FIRE DAMPER DETAIL

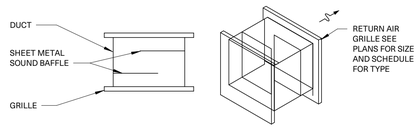
NO SCALE



NOTES:
1. INSTALL RETURN GRILLES BETWEEN WALL STUDS.
2. INSTALL RETURN GRILLE IN BEDROOM HIGH ON WALL.
3. INSTALL RETURN GRILLE 1'-6" AFF IN HALLWAY.
4. CAVITY IS SEALED TIGHT, DRYWALL GLUED TO STUDS AND PLATES ON BOTH SIDES.

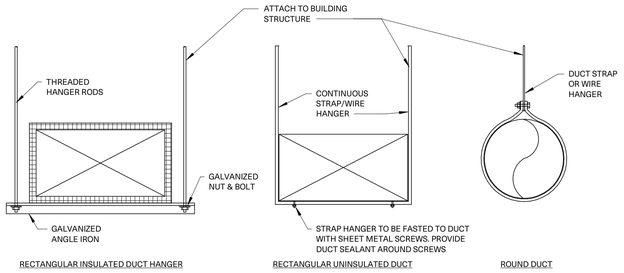
HIGH/LOW RETURN GRILLE DETAIL

NO SCALE



BEDROOM RETURN AIR TRANSFER GRILLE DETAIL

NO SCALE



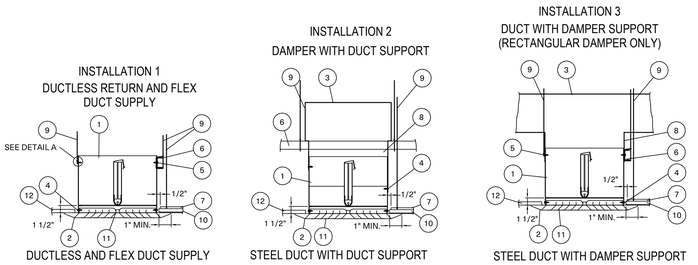
NOTES:
1. ALL HANGER STRAPS AND HANGER RODS SHALL BE FIRMLY SUPPORTED FROM THE STRUCTURAL STEEL.
2. REFER TO LOW PRESSURE DUCTWORK JOINT AND SUPPORT SCHEDULE FOR HANGER AND SUPPORT GAUGES, SPACING, STRAP SIZES, ETC.

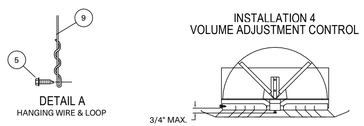
DUCT SUPPORT DETAIL

NO SCALE

EQUIPMENT RAIL FOR ROOF MOUNTING

NO SCALE



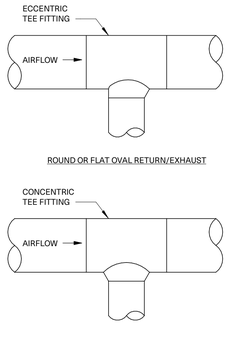


ITEM DESCRIPTION
1. DAMPER
2. GRILLE FRAME (20 GA. MIN)
3. DUCT
4. #8 SHEET METAL SCREW
5. #10 SHEET METAL SCREW
6. 16 MSG X 1-1/2" CHANNEL
7. CEILING GRID (UL CLASSIFIED)
8. DUCT DROP
9. 12 SWG STEEL WIRE
10. ACOUSTIC LAY-IN PANELS (UL CLASSIFIED)
11. DIFFUSER OR GRILLE CORE (METALLIC OR NON-METALLIC)
12. RIGID GYPSUM WALL BOARD CEILING (UL CLASSIFIED)

GENERAL NOTES:
1. INSTALLATION MUST COMPLY WITH DAMPER MANUFACTURE'S U.L. LABEL INSTALLATION REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR LOCATIONS

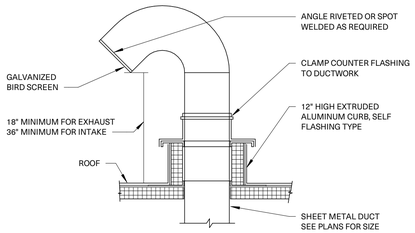
CEILING RADIATION DAMPER INSTALLATION DETAIL

NO SCALE



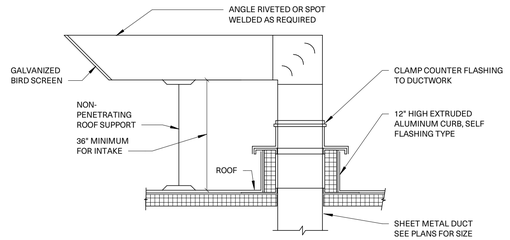
ROUND BRANCH DUCT DETAILS

NO SCALE



GOOSENECK DETAIL

NO SCALE



OUTSIDE AIR INTAKE DETAIL

NO SCALE

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CONSULTANTS

STAMPS

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KELLY B. SUGG
ENGINEER
No. 6201061005
LICENSED PROFESSIONAL ENGINEER

#	ISSUANCE	DATE
	PERMITS	09.12.2025

PROJECT
EVART MIXED USE
101 S Main St., Evart, MI 49631

PROJECT NO.
2025-0061

SHEET TITLE
DETAILS

M-502

9/12/2025 11:50:00 AM
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