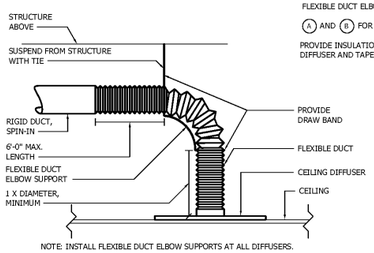
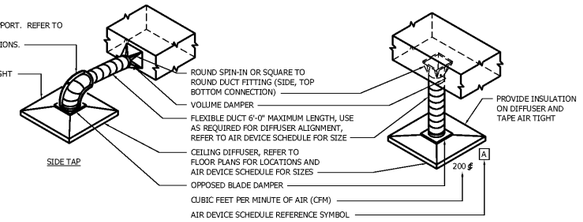
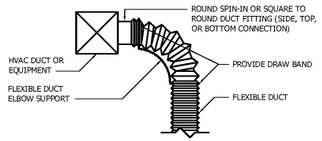


NOTE: INSTALL FLEXIBLE DUCT ELBOW SUPPORTS AT ALL DIFFUSERS.

CEILING DIFFUSER CONNECTION



CEILING DIFFUSER /FLEXIBLE DUCT CONNECTIONS



NOTE: INSTALL FLEXIBLE DUCT ELBOW SUPPORTS AT ALL FLEXIBLE DUCT 90º BENDS.

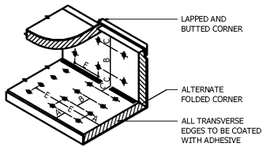
FLEXIBLE DUCT CONNECTION TO DUCT BRANCH

NOTES:

1. REFER TO AIR DEVICE SCHEDULE FOR TYPE OF DISCHARGES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
3. WHEN BRANCH DUCT LENGTHS EXCEED 6'-0", UTILIZE HARD DUCT,SAME SIZE AS FLEXIBLE DUCT OR AS INDICATED ON PLANS.
4. MAXIMUM FLEXIBLE DUCT SAG SHALL NOT EXCEED 1/2" PER LINEAR FOOT.
5. FLEXIBLE DUCT ELBOW SUPPORTS SHALL BE ATTACHED TO FLEXIBLE DUCTS UTILIZING MANUFACTURER RECOMMENDED DRAW BANDS.

① DETAIL - TYPICAL DUCTWORK/ DIFFUSER CONNECTION TYPES

SCALE: NONE



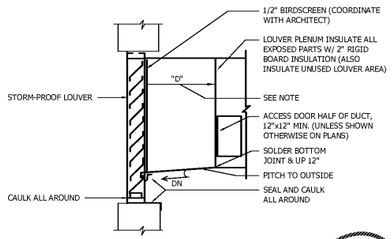
VELOCITY	MAX SPACING FOR FASTENERS			
	A	B	C	E
LOW - 2 INCH S.P. & LESS	3"	12"	4"	18"
MED - 3 INCH S.P. & GREATER	3"	6"	4"	16"

NOTES:

1. LINER SHALL BE ADHERED TO THE DUCT WITH 100% MIN. AREA COVERAGE OF ADHESIVE.
2. THE VELOCITY RATED SIDE OF THE LINER MUST FACE THE AIR FLOW.
3. PROVIDE GALVANIZED PERFORATED LINER ON ROOFTOP AIR HANDLING UNIT MEDIUM PRESSURE PRIMARY AIR SUPPLY TO VAV BOXES AND ROOFTOP AIR HANDLING UNIT RETURN AIR DUCTWORK.

③ DETAIL - TYPICAL DUCT LINER INSTALLATION

SCALE: NONE

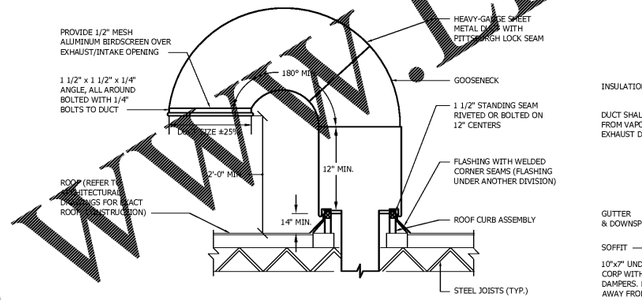


NOTE:

1. WHEN "D" IS OVER 24" PROVIDE 3/4" DRAIN AT 5'-0" CENTERS (IF DEPTH INTO PAPER IS GREATER THAN 5'-0"), 6" FROM LOUVER WITH TRAP.

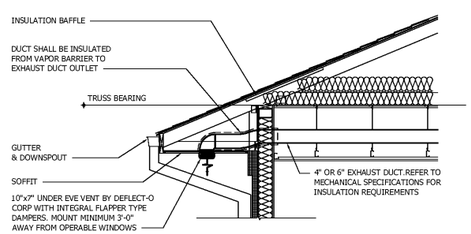
④ DETAIL - TYPICAL LOUVER CONNECTION

SCALE: NONE



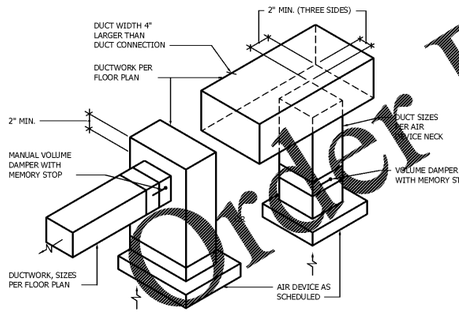
⑤ DETAIL - TYPICAL GOOSENECK DUCT OUTSIDE / EXHAUST AIR ARRANGEMENT

SCALE: NONE



⑥ DETAIL - TYPICAL TOP FLOOR SOFFIT EXHAUST

SCALE: NONE

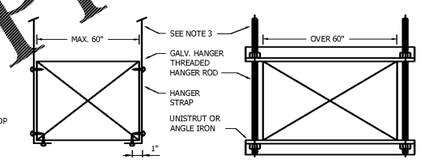


NOTE:

1. RETURN DUCT PERTINENT TO DUCTED RETURN SYSTEM(S) ONLY.

⑦ DETAIL - TYPICAL RETURN / EXHAUST AIR DUCT DEVICE CONNECTION

SCALE: NONE

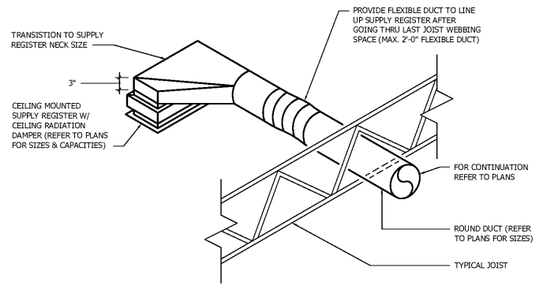


NOTES:

1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE, FOR CROSS SECTION AREAS MORE THAN 8 SQ FT, DUCTS SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
3. SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA.
4. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT CONSTRUCTIONS OF THE STRUCTURES ABOVE SUPPORTING DUCTS.

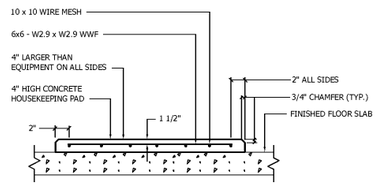
⑧ DETAIL - TYPICAL DUCT HANGER SUPPORT

SCALE: NONE



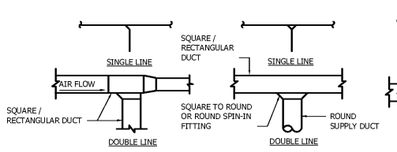
⑨ DETAIL - TYPICAL APARTMENT SUPPLY REGISTER WITH CEILING RADIATION DAMPER

SCALE: NONE

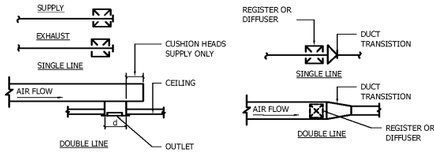


⑩ DETAIL - TYPICAL CONCRETE HOUSEKEEPING PAD ON NEW FLOOR SLAB

SCALE: NONE

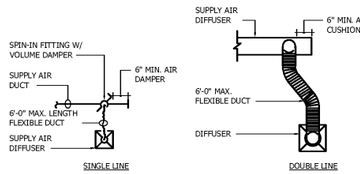


TYPICAL TAPOFF & TRANSITION FROM SIDE OF DUCT

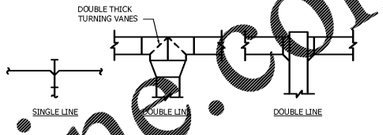


OUTLET LOCATED AT END OF RUN

DIFFUSER OR REGISTER TAPOFF & TRANSITION



FLEXIBLE DUCT TAKE-OFF
(WITHIN 6'-0" TRUNK)



TYPICAL SPLIT

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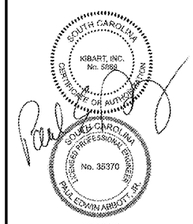

10/18/2019

revisions

No.	Date	Title

sheet title

DETAILS - MECHANICAL

issue date 10/18/2019

sheet number

M-501

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