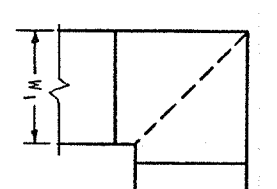
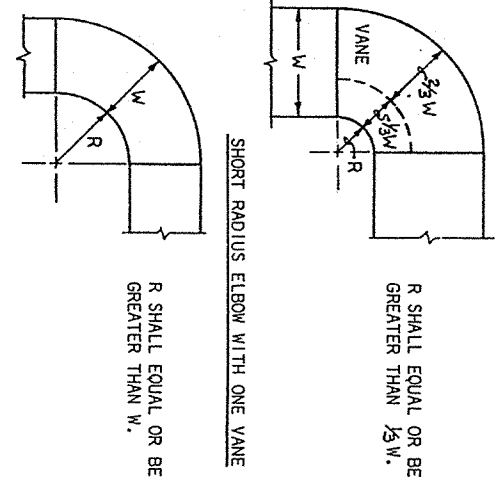


- NOTE:**
- PROVIDE BRACING TO LIMIT THE AMPLITUDE OF WALL VIBRATION AND WALL DEFLECTION TO SPECIFIED MAXIMUMS.
 - NOMINAL BRACING REQUIREMENTS:**
 - | MAXIMUM DUCT WIDTH, IN. | MINIMUM SIZE ANGLE, IN. | MAXIMUM SPACING, IN. |
|-------------------------|-------------------------|----------------------|
| UP TO 26 | NONE | |
| 27 TO 40 | 1-1/2 x 1-1/2 x 3/16 | 6 FT. |
| 41 TO 50 | 2 x 2 x 3/16 | 4 FT. |
| 51 TO 60 | 2 x 2 x 3/16 | 2 FT. |
| 61 TO 72 | 2 x 2 x 3/16 | 2 FT. |
 - INSULATION: FOR COLD DUCTS INSULATE BRACES AND PROVIDE VAPOR BARRIER.
- NOTES:**
Angles sizes are for up to 6 inches SP.

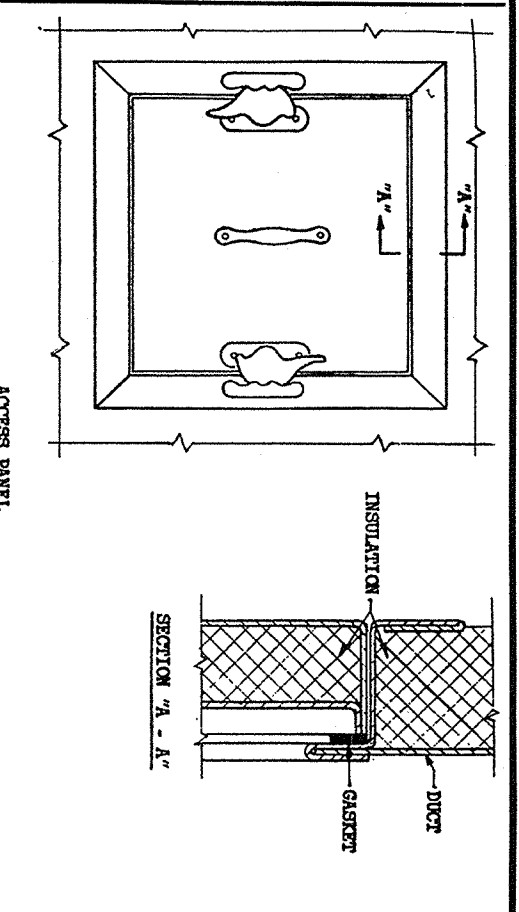
1 HANGER DETAILS, OVAL DUCT
1/2-H4 NO SCALE



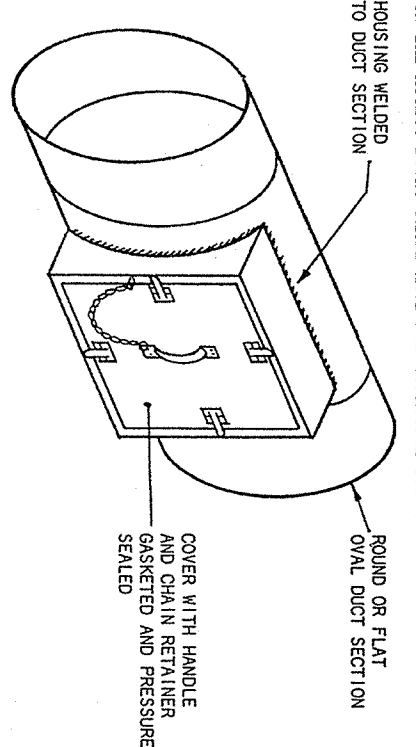
- SQUARE VANED ELBOWS**
- ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 - WHEN W₁ DOES NOT EQUAL W₂, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W₁ DIMENSION.
 - ALL SINGLE VANES SHALL HAVE A 2 INCH RADIUS, 1 1/2 INCH MAXIMUM SPACE BETWEEN VANES AND A 3/4 INCH TRAILING EDGE.
 - WHEN W₁ EQUALS W₂ AND W₁ IS GREATER THAN 20 INCHES VANES SHALL BE DOUBLE VANE TYPE.



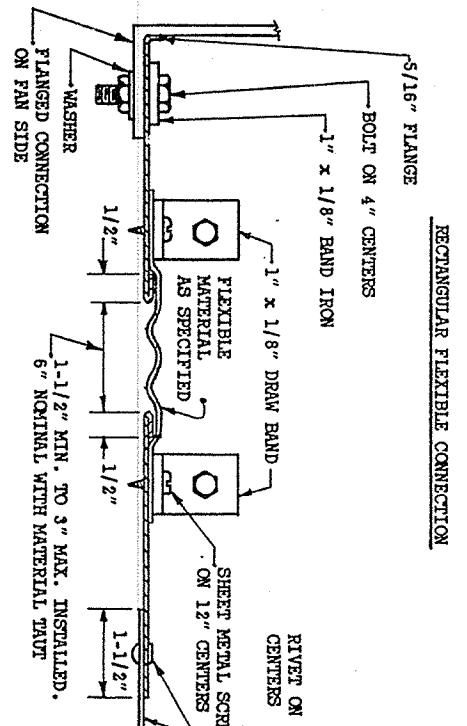
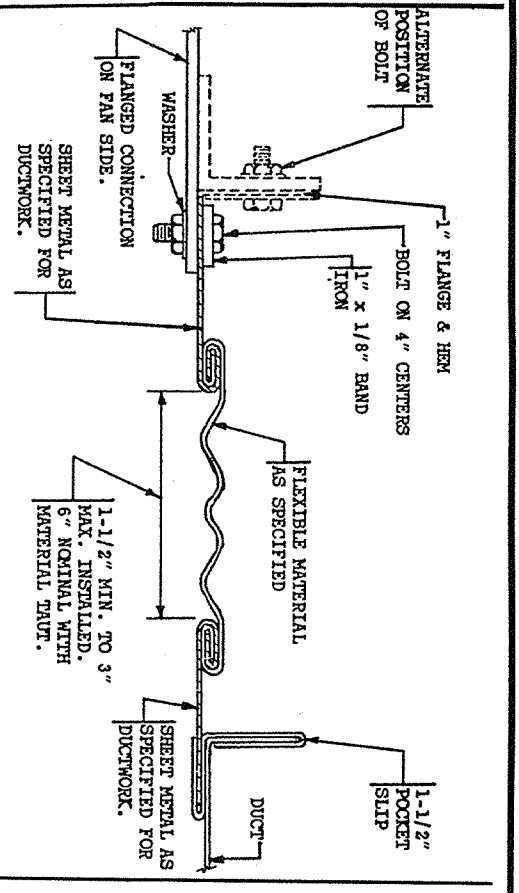
- NOTES:**
- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 - ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.
- 5 ELBOWS FOR RECTANGULAR LOW PRESSURE DUCTWORK**
1/2-H4 NO SCALE



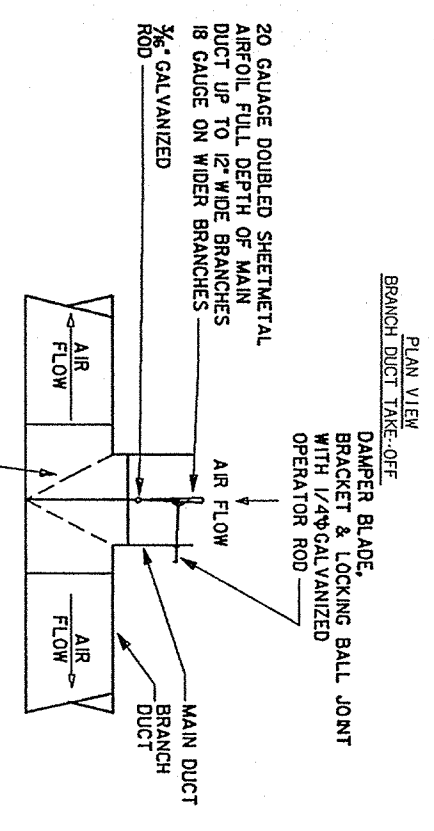
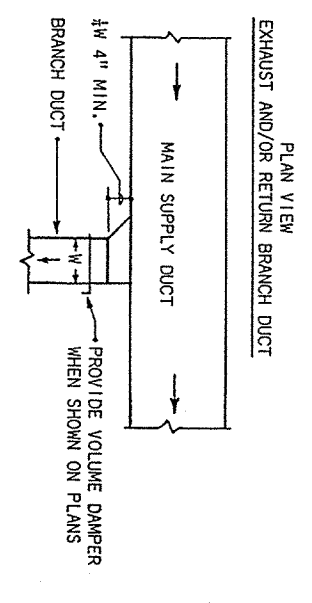
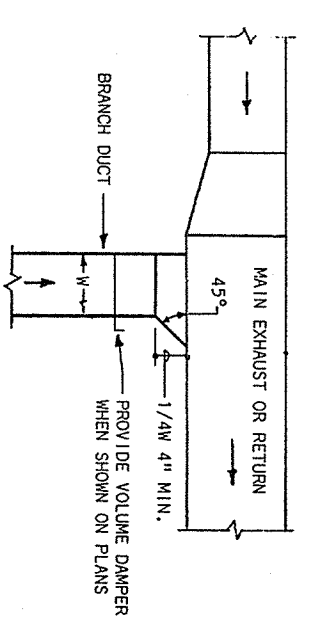
- NOTES:**
- LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
 - HINGES ON THE ACCESS DOORS SHALL HAVE HIGH CORROSIIVE RES.



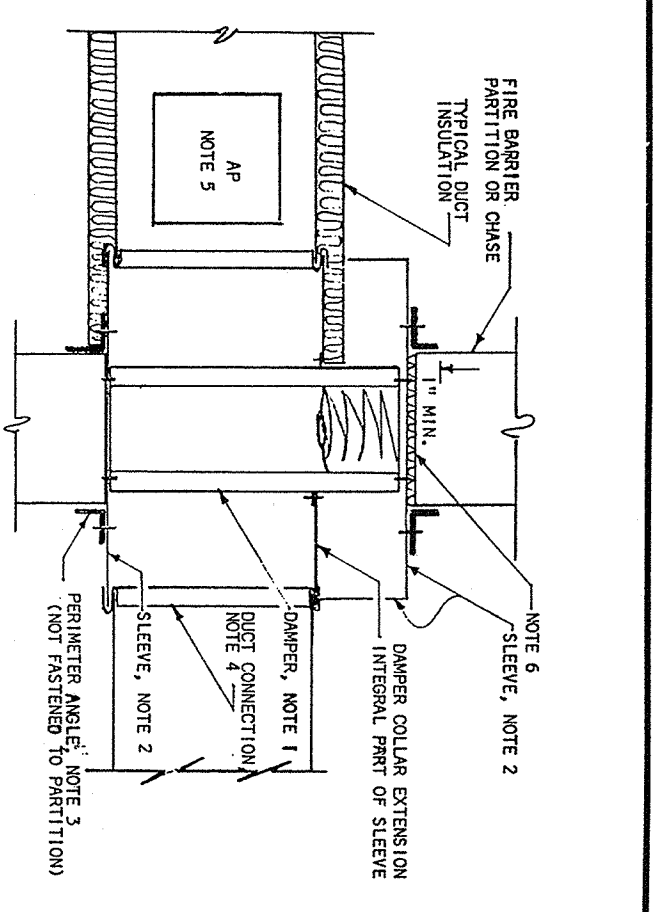
2 DUCT ACCESS DETAILS
1/2-H4 NO SCALE



3 DUCT CONNECTOR DETAILS
1/2-H4 NO SCALE

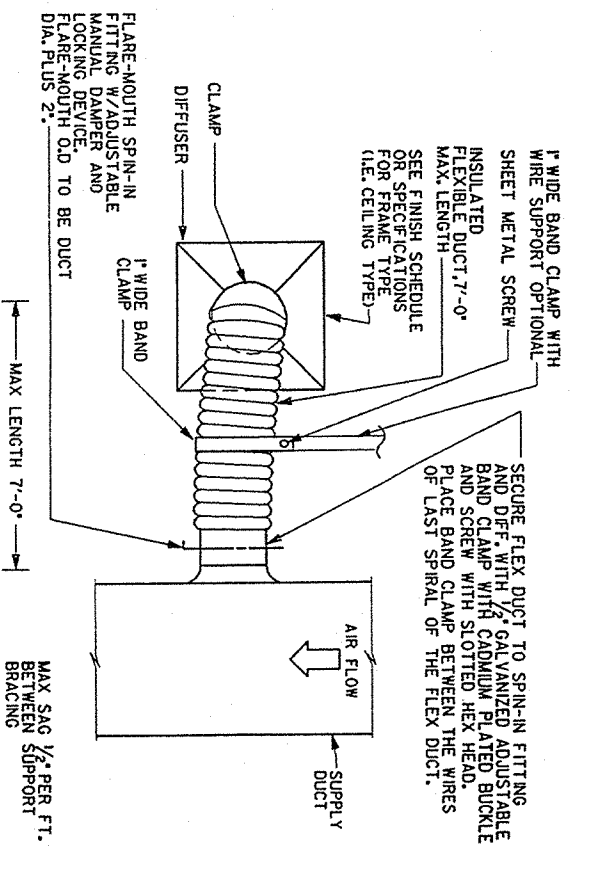


6 TYPICAL RECTANGULAR LOW-PRESSURE BRANCH FITTINGS
1/2-H4 NO SCALE



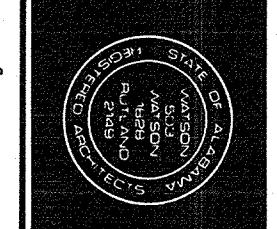
- NOTES:**
- A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR, NOT OUTSIDE THE PENETRATION.
 - GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
 - PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1 1/2 x 1 1/2 INCHES, 14 GAGE, TO PROVIDE 1 INCH MINIMUM OVERLAP ON ALL 4 SIDES.
 - BREAKAWAY DUCT CONNECTION: CONTRACTORS OPTION OF TYPES SHOWN IN SMACNA LFD'S, FIG. 2-13. SEAL JOINTS.
 - ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
 - PROVIDE 1/4 TO 1/2 INCH CLEARANCE ON HEIGHT AND WIDTH, FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
 - ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH A 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

7 FIRE DAMPER DETAIL
1/2-H4 NO SCALE



7 DIFFUSER CONNECTION DETAIL
1/2-H4 NO SCALE

WATER
Watson Watson Rutland / Architects Inc.
166 Commerce Street
P.O. Box 4834
Montgomery, Alabama 36104
205383-4401



Drawing Title
Details

Project Title
Relocate Regional Office to Department Owned Grounds

Location
VMAC Montgomery, AL

Building Number
42

Grounds
42-H4

Project No.
922-002

Drawing No.
42-H4

Date
27 JANUARY 92

