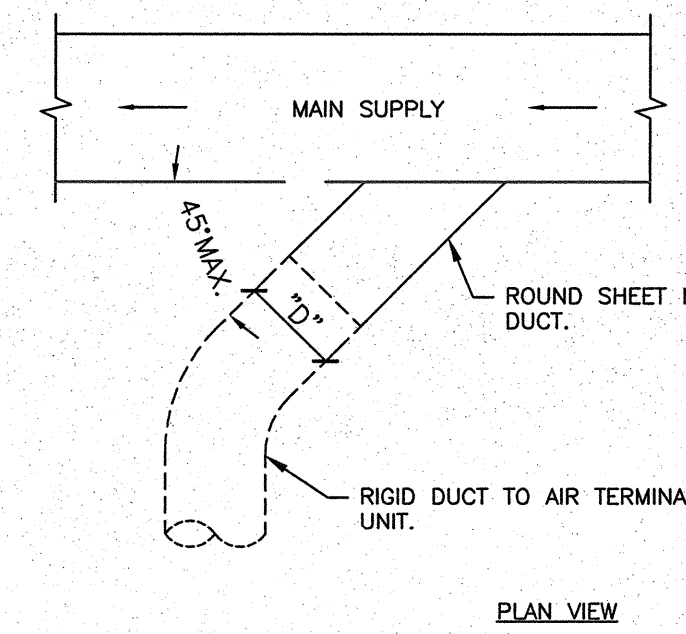
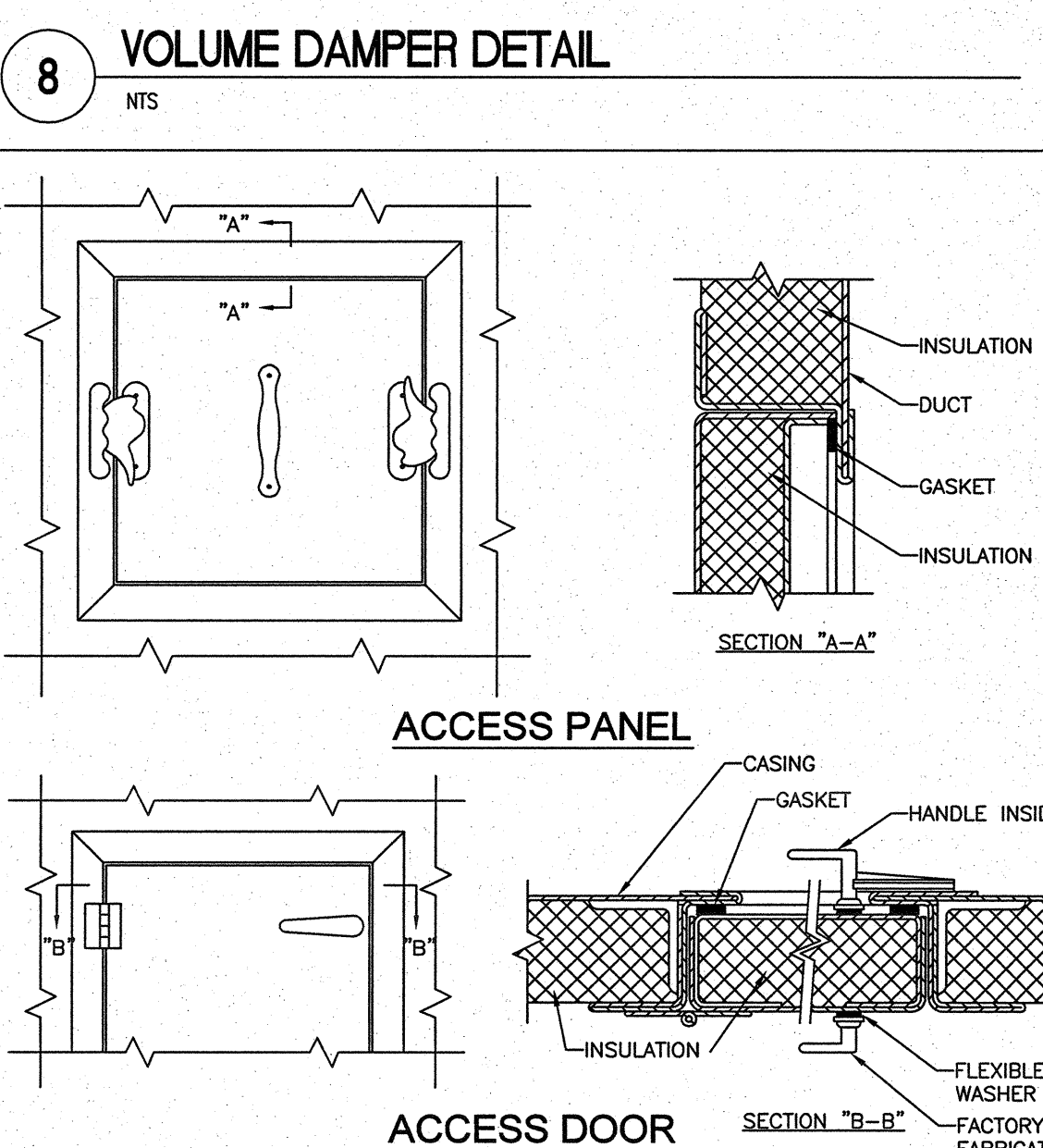


- 1 DUCTWORK SQUARE VANE ELBOWS
NTS

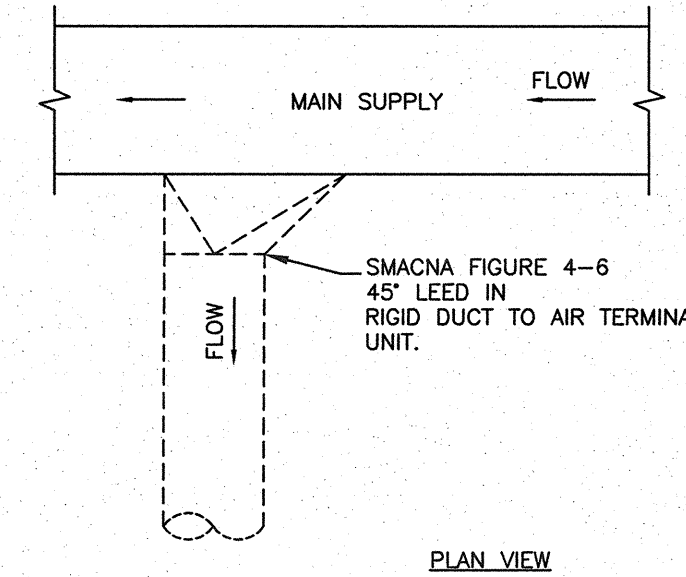


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- The diagrams illustrate three types of pipe elbows:
- STANDARD RADIUS OR LONG RADIUS ELBOW:** A quarter-circle elbow with a radius R and width W . The note states: "R SHALL EQUAL OR BE GREATER THAN W."
 - SHORT RADIUS ELBOW WITH ONE VANE:** A quarter-circle elbow with a radius R and width W . The note states: "R SHALL EQUAL OR BE GREATER THAN $1/3W$."
 - SHORT RADIUS ELBOW WITH TWO VANES:** A quarter-circle elbow with a radius R and width W . The note states: "R SHALL EQUAL OR BE GREATER THAN $1/6W$."
- NOTE:-

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.



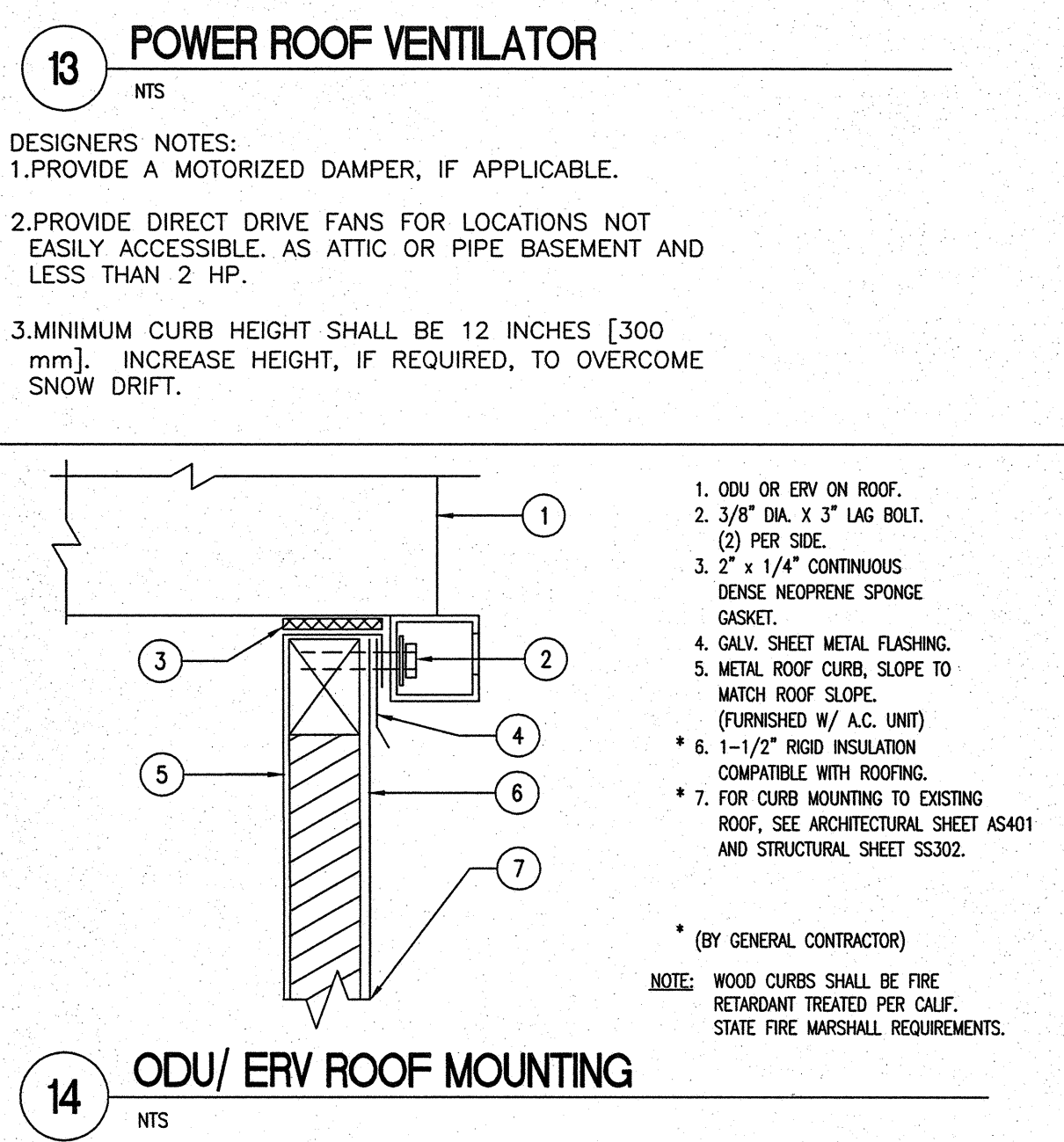
- 2 DUCTWORK RADIUS ELBOWS



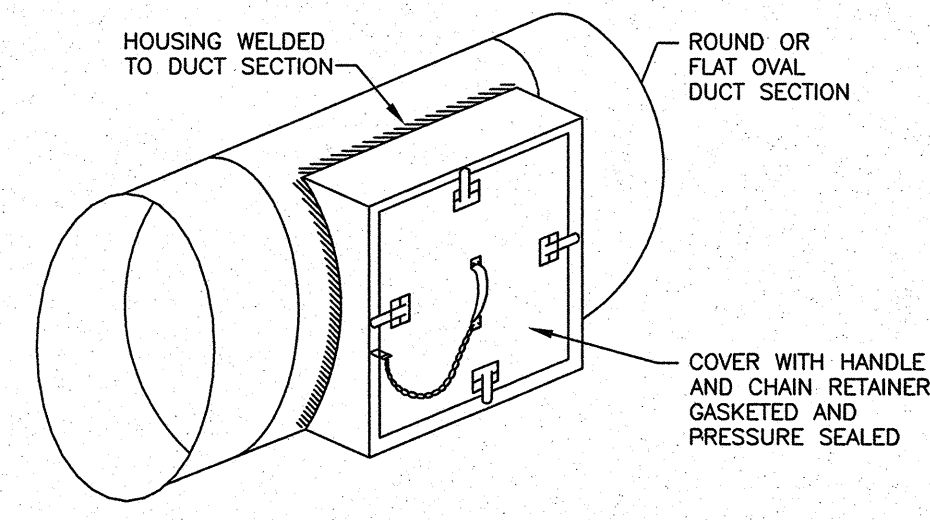
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- NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

- ## 2 DUCTWORK TRANSITIONS




1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
3. SEE SMACNA 2005, FIGURE 9-15
- 9 ACCESS PANEL AND DOOR DETAIL**
- NTS



- 10 ACCESS SECTION FOR ROUND/OVAL DUC
NTS

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Management

 Department of
Veterans Affairs