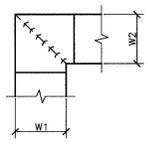


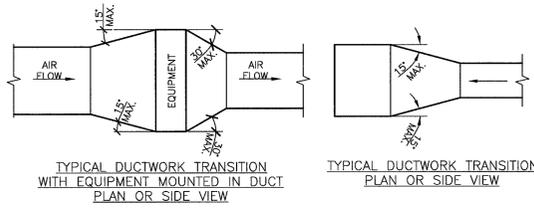
three inches = one foot  
 one and one-half inch = one foot  
 one inch = one foot  
 one-quarter inch = one foot  
 one-half inch = one foot  
 three-eighths inch = one foot  
 one-eighth inch = one foot  
 one-quarter inch = one foot  
 one-eighth inch = one foot

**NOTES**  
 A. REFER TO DWG. M-001 FOR MECHANICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES RELATED TO THIS SHEET.  
 B. ALL EXISTING PIPING, DUCTWORK, SPRINKLERS, CONDUIT, LIGHTING OR OTHER CONSTRUCTION SHALL BE RELOCATED AS REQUIRED FOR ALL DEMOLITION AND INSTALLATION WORK.  
 C. REFER TO MH102 AND MH402 FOR MECHANICAL HVAC PLANS RELATED TO THIS SHEET.



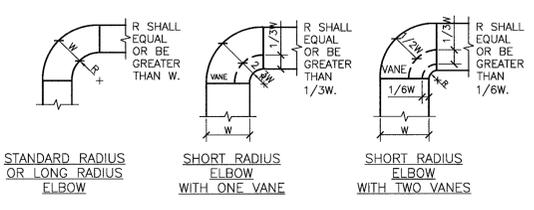
**NOTE:**  
 1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.  
 2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.  
 3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING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

**B1 DUCTWORK SQUARE VANE ELBOWS**  
 NOT TO SCALE



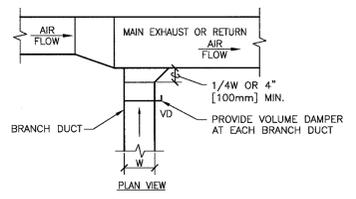
**NOTE:**  
 1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

**B2 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)**  
 NOT TO SCALE

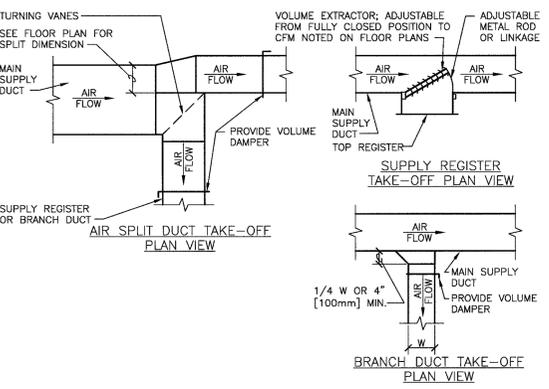


**NOTE:**  
 1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.  
 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

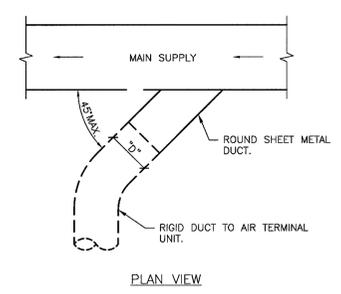
**B4 DUCTWORK RADIUS ELBOWS**  
 NOT TO SCALE



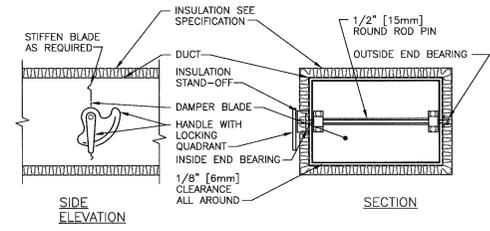
**B6 EXHAUST OR RETURN BRANCH DUCTWORK**  
 NOT TO SCALE



**D1 SUPPLY DUCTWORK TAKE-OFFS**  
 NOT TO SCALE

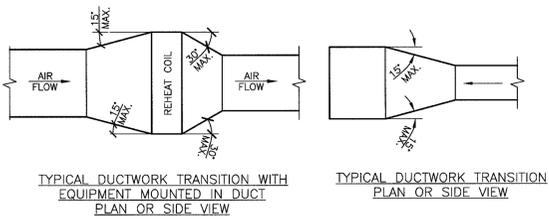


**D2 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT**  
 NOT TO SCALE



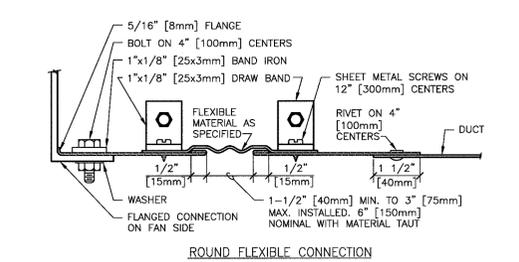
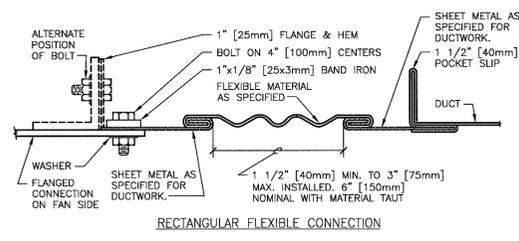
**NOTE:**  
 1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.  
 2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

**D4 VOLUME DAMPER DETAIL**  
 NOT TO SCALE

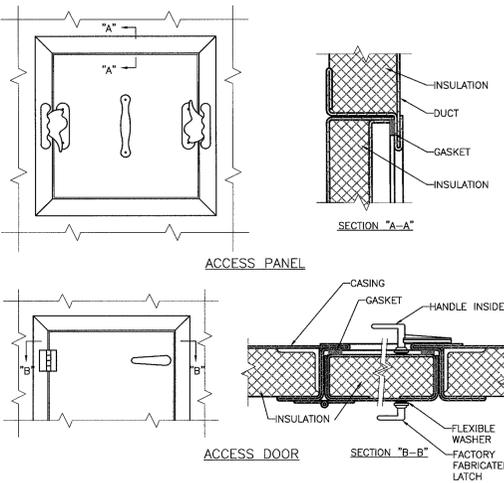


**NOTE:**  
 1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

**D6 DUCTWORK TRANSITIONS (WITH COILS MOUNTED IN DUCT)**  
 NOT TO SCALE



**F2 FLEXIBLE DUCT CONNECTIONS**  
 NOT TO SCALE



**NOTES:**  
 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

**F4 ACCESS PANEL AND DOOR DETAIL**  
 NOT TO SCALE

FULLY SPRINKLERED  
 BID DOCUMENTS  
 FOR CONSTRUCTION

ISSUED FOR BID	9-7-2017
Revisions	Date

VA WESTERN NEW YORK HEALTHCARE SYSTEM  
 3495 BAILEY AVENUE  
 BUFFALO, NEW YORK 14215

**paradigm**  
 Architecture | Engineering | Design-Build  
 200 Envoy Circle, Suite 201 Louisville, KY 40299  
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7th FEB 2018  
 BLAINE CARROLL  
 VAN GANSBEKE  
 24,785  
 LICENSED PROFESSIONAL ENGINEER

MANAGER	DATE	ENGINEERING MANAGER	DATE
INFECTION CONTROL	DATE	MANAGER	DATE
SAFETY OFFICER	DATE	CHIEF OF STAFF	DATE

Drawing Title		Project Title	
MECHANICAL HVAC DETAILS		BUFFALO GU AHU	
MEDICAL CENTER DIRECTOR		Building Number	Checked
ASSOCIATE MEDICAL CENTER DIRECTOR		1	KLP
		Drawn	JDM
		Location	
		V.A.M.C. BUFFALO, NEW YORK	

Date	09-07-2017
Station No.	528
17-s06-MH501	

Office of Facilities  
 Department of Veterans Affairs