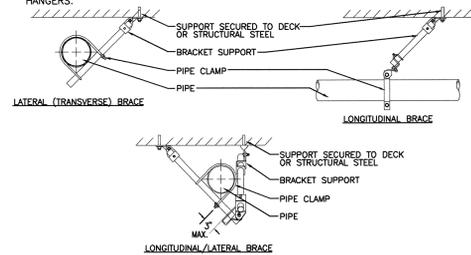
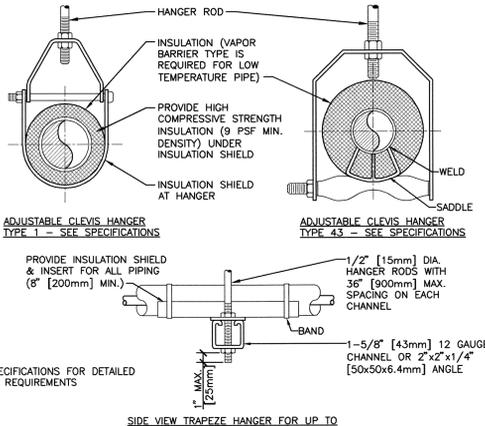


- NOTE**  
ALL SUPPORTS MUST WITHSTAND THE FOLLOWING SEISMIC PERFORMANCE CRITERIA:
- SEISMIC-RESTRAINT LOADING:
    - SITE CLASS AS DEFINED IN THE IBC: D
    - ASSIGNED SEISMIC USE GROUP OR BUILDING CATEGORY AS DEFINED IN THE IBC: II
    - COMPONENT IMPORTANCE FACTOR: 1.5
  - SDS DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (0.2 SECOND): 0.50
  - SD1 DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD: (0.55 SECOND).
  - SEE STRUCTURAL DRAWING SS003 DETAIL C1 FOR SUPPLEMENTAL STEEL SUPPORT HANGERS.



**B1 SEISMIC BRACING FOR PIPE**  
SCALE: NONE

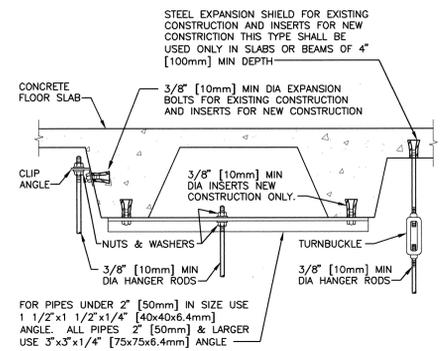


**MAXIMUM PIPE/TUBING SUPPORT SPACING**

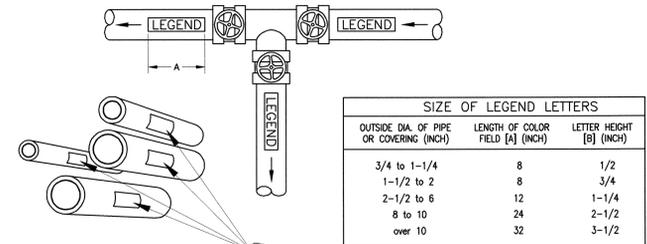
NOM. SIZE	IN.	THRU	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPE	IN.	2100	2100	2100	2100	2700	3000	3400	3700	4100	4900	5200	5800	6700	7000	7600	8200	8800	9100	9600
TUBING	IN.	1500	1800	2100	2400	2400	2700	3000	3700	4000	4100	4900	-	-	-	-	-	-	-	-

**NOTE:** FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

**B3 PIPE HANGERS**  
SCALE: NONE VA CAD DETAIL #: SD230511-21.DWG



**B6 SECURING HANGER RODS IN CONCRETE**  
SCALE: NONE VA CAD DETAIL #: SD230541-05.DWG

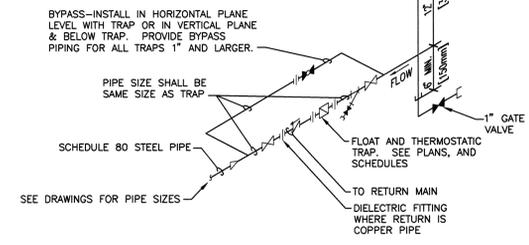


**B8 PIPING SYSTEM IDENTIFICATION**  
SCALE: NONE

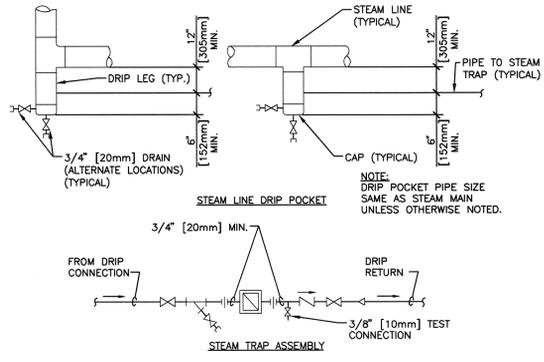
**F & T TRAP SIZING SCHEDULE**

DESIGNATION	LBS. PER HOUR	TRAP SIZE
LPDA-1	0 - 70	3/4"
LPDA-2	71 - 175	1"
LPDA-3	176 - 425	1-1/4"
LPDA-4	426 - 850	1-1/2"
LPDA-5	851 - 1775	2"

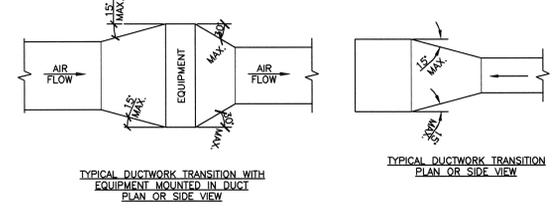
**NOTE:** CAPACITIES BASED ON 1/4 PSI P.D.



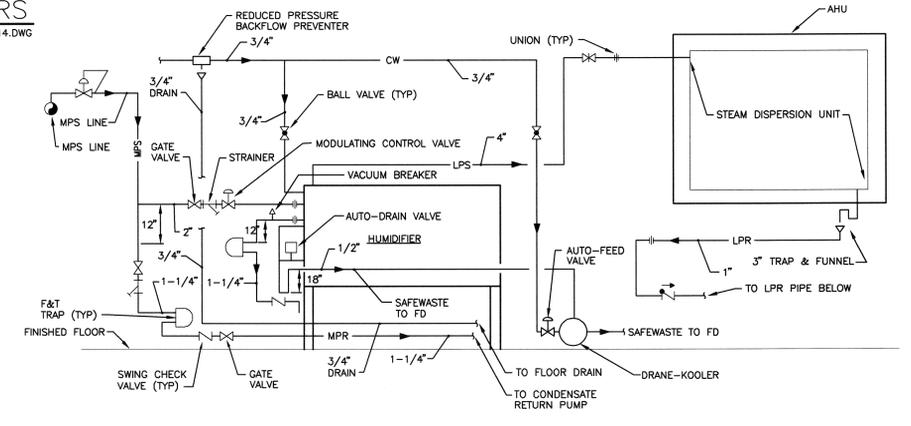
**E1 FLOAT AND THERMOSTATIC STEAM TRAP ASSEMBLY**  
SCALE: NONE VA CAD DETAIL #: SD232213-03.DWG



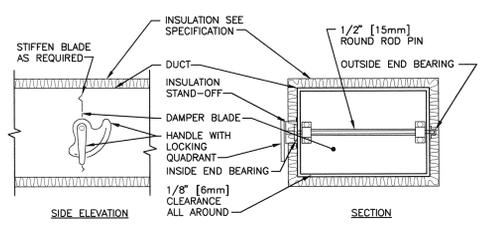
**E3 STEAM LINE DRIP POCKET STEAM TRAP ASSEMBLY**  
SCALE: NONE VA CAD DETAIL #: SD232111-01.DWG



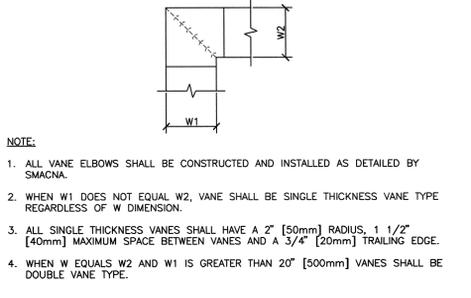
**E5 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)**  
SCALE: NONE VA CAD DETAIL #: SD233100-03.DWG



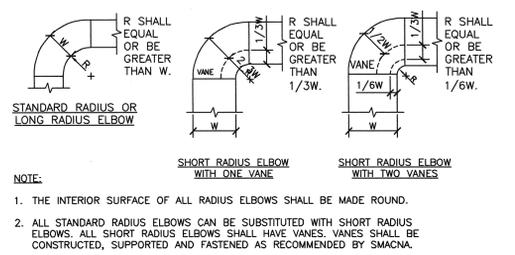
**E7 LPS STEAM TO STEAM UNIT MOUNTED DISPERSION HUMIDIFIER PIPING**  
SCALE: NONE



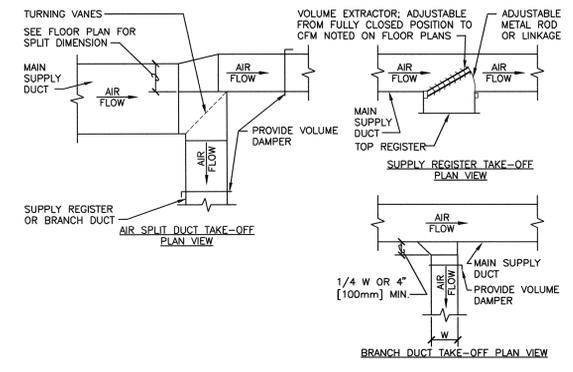
**F1 VOLUME DAMPER DETAIL**  
SCALE: NONE VA CAD DETAIL #: SD233100-08.DWG



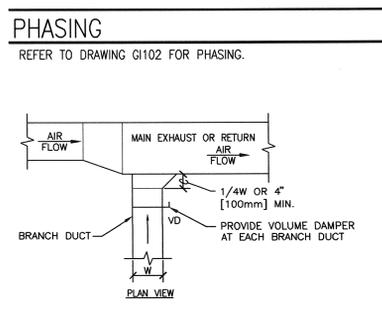
**F3 DUCTWORK SQUARE VANE ELBOWS**  
SCALE: NONE VA CAD DETAIL #: SD233100-01.DWG



**F5 DUCTWORK RADIUS ELBOWS**  
SCALE: NONE VA CAD DETAIL #: SD233100-02.DWG



**F7 SUPPLY DUCTWORK TAKE-OFFS**  
SCALE: NONE VA CAD DETAIL #: SD230541-05.DWG



**F9 EXHAUST OR RETURN BRANCH DUCTWORK**  
SCALE: NONE VA CAD DETAIL #: SD233100-07.DWG

**REVISIONS**

REVISION NO.	REVISION DESCRIPTION

**Department of Veterans Affairs**  
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HSH PROJECT # 12013

**Recommended Approvals:**

1. MEDICAL DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSOCIATE DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COR

**Drawing Title**  
MECHANICAL DETAILS

**Project Title**  
DESIGN BUILDING 7 AIR HANDLER UPGRADE - PROJECT A: 7-AHU107 & 7-AHU108

**Date**  
SEPT. 27, 2013

**Project Number**  
502-12-201

**Final Bid Documents**

**Drawn**  
DWS

**Building Number**  
7

**AutoCAD File Name**  
DRAWING No. M501

**Checked**  
W/S

**Reviewed**  
Jm

**Const. Contract No.**

**Scale**  
AS SHOWN

