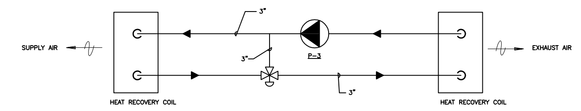
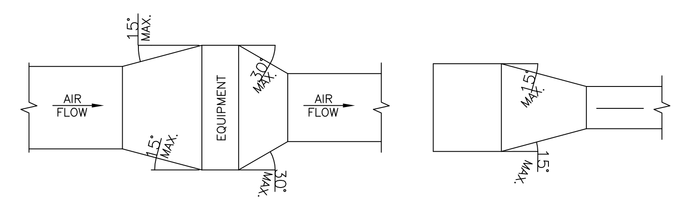


NOTE:

1. TO PREVENT ICING ON EXHAUST COIL, MAINTAIN TEMPERATURE OF GLYCOL SOLUTION ENTERING EXHAUST AIR COIL > 3°F
2. HEAT RECOVERY SYSTEM IS OFF BETWEEN 60°F AND 80°F OUTSIDE AIR TEMPERATURE.
3. PUMP P-3 AND CONTROL VALVE LOCATED BELOW RTU-1 IN THE CEILING SPACE ABOVE STORAGE ROOM. COORDINATE FINAL LOCATION OF PUMP, VALVE, PIPING RE/COTR.

3 RUN AROUND HEAT RECOVERY DETAIL

NTS



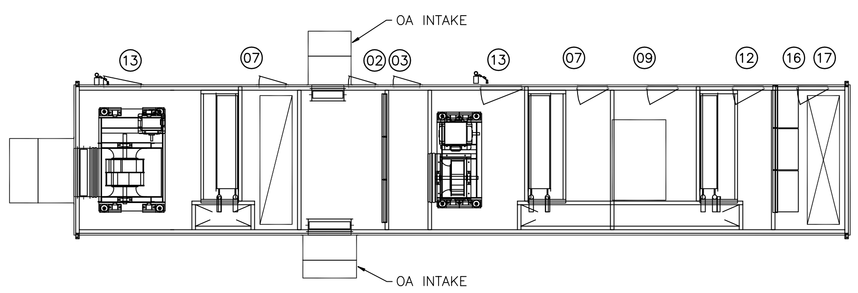
TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

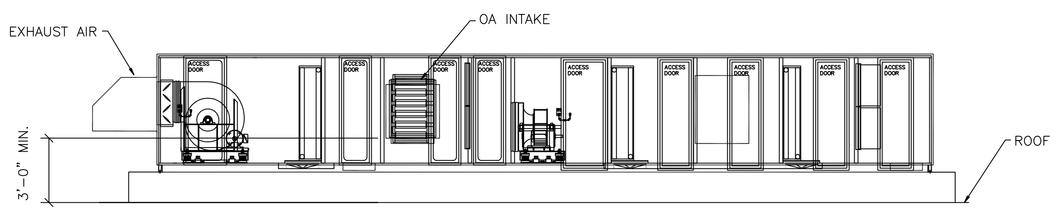
NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

2 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)

NTS



PLAN VIEW



ELEVATION VIEW

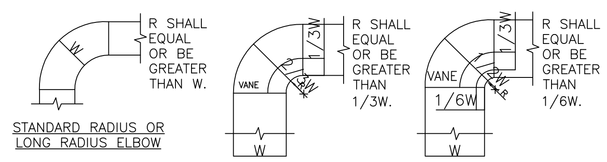
4 RTU-1 SURGICAL SUITE

1/4"=1'-0"

	AIR HANDLING UNIT	ITEM	MINIMUM OUTSIDE AIR TWO BEDS OF FILTERS VAV	MINIMUM OUTSIDE AIR THREE BEDS OF FILTERS CV	100% OUTSIDE AIR TWO BEDS OF FILTERS CV	100% OUTSIDE AIR THREE BEDS OF FILTERS CV
*	MIXING BOX	1	YES	YES	NO	NO
*	BLENDER SECTION	2	YES	YES	NO	NO
	PRE-FILTERS (SIDE ACCESS)	3	YES	YES	YES	YES
*	INSPECTION SECTION, SMALL	4	YES	YES	YES	YES
	AFTER FILTER (SIDE ACCESS)	5	YES	YES	YES	YES
*	ACCESS SECTION, MED-LARGE	6	YES	YES	YES	YES
*	HEAT RECOVERY COIL	7	NO	NO	YES	YES
*	ACCESS SECTION, MED-LARGE	8	NO	NO	YES	YES
*	HEATING COIL	9	YES	YES	YES	YES
*	INSPECTION SECTION,SMALL	10	YES	YES	YES	YES
	HUMIDIFIER	11	NO	NO	NO	NO
	COOLING COIL	12	YES	YES	YES	YES
	FAN	13	YES	YES	YES	YES
*	DIFFUSER PLATE	14	NO	NO	NO	YES
*	ACCESS SECTION,MED-LARGE	15	NO	NO	YES	YES
*	HEPA FILTER	16	NO	NO	NO	YES
*	DISCHARGE PLENUM (VERTICAL)	17	YES	YES	YES	YES
* AS REQUIRED						

NOTE:

1. ACCESS DOORS SHALL BE GASKETED AND HINGED TO OPEN AGAINST FAN OPERATING PRESSURE TO PREVENT AIR LEAKAGE.
2. MINIMUM ACCESS DOOR WIDTH SHALL BE 24" [600mm].
3. ACCESS DOOR HEIGHT SHALL BE DETERMINED BY UNIT CASING BUT NOT TO EXCEED 6'-0" [1800mm].
4. ACCESS DOORS ON FAN SUCTION SHALL OPEN OUTWARD.
5. ACCESS DOORS ON FAN DISCHARGE SIZE SHALL OPEN INWARD.



STANDARD RADIUS OR LONG RADIUS ELBOW

SHORT RADIUS ELBOW WITH ONE VANE

SHORT RADIUS ELBOW WITH TWO VANES

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.

1 DUCTWORK RADIUS ELBOWS

NTS

FULLY SPRINKLERED

Revisions: Date

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PLAN NORTH

SCALE: 1/8" = 1'-0"

ARCHITECT/ENGINEERS:

HEERY design

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820 16th Street Mall,
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720.946.0276

Heery Project Number:
0830400

Drawing Title: HVAC DETAILS

Approved: Project Director

Project Title: SURGERY RENOVATION AND EXPANSION

Location: CHEYENNE, WY

Date: 04/24/09 | Checked: RDM | Drawn: ETK

Project Number: VA-259-09-RA-209

Building Number: BLDG. NO. 1

Drawing Number: MH504

Dwg. 13 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231