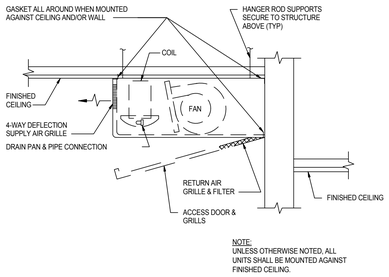
1 NOT USED

NTS

2 FAN COIL UNIT - HORIZONTAL EXPOSED

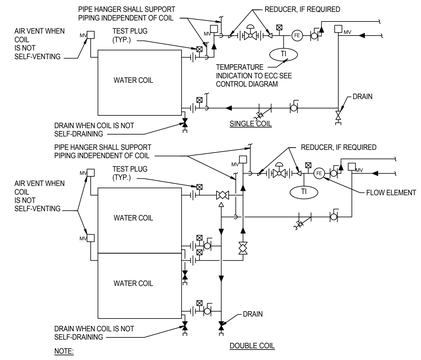
NTS



NOTE:
UNLESS OTHERWISE NOTED, ALL UNITS SHALL BE MOUNTED AGAINST FINISHED CEILING.

3 WATER COILS - PIPING CONNECTIONS

NTS

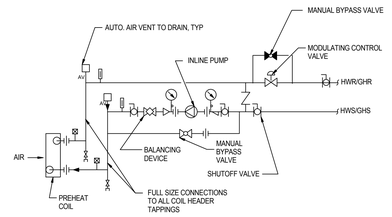


NOTE:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4" [100mm] - PIPE & SMALLER. TYPE "H-P" FOR 5" [125mm] - PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALES, OR EQUIPMENT.
3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

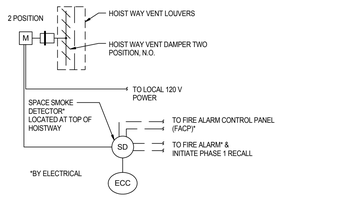
4 PREHEAT COIL (HOT WATER) - PIPING CONNECTIONS

NTS



NOTE:

1. SIZE AND SELECT COIL FOR PARALLEL FLOW AND MINIMUM TUBE WATER VELOCITY OF 3.0 FEET PER SECOND

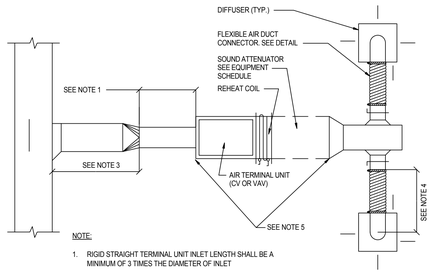


NOTES:

1. THE DAMPER SHALL REMAIN CLOSED DURING NORMAL OPERATION AND OPEN UPON LOSS OF POWER FROM A SIGNAL FROM THE SMOKE DETECTOR LOCATED AT THE TOP OF THE HOISTWAY. COORDINATE NUMBER OF CONTACTS WITH THE ELECTRICAL AND FIRE PROTECTION DESIGNS.
2. SHOW DAMPER LOCATION AND SIZE ON THE DRAWINGS.
3. PROVIDE A BINARY DDC POINT TO SOUND AN ALARM AT ECC.
4. REMOTE ALARM SHALL BE ACTIVATED WHEN THE HOISTWAY SMOKE DETECTOR DETECTS SMOKE.

5 HOISTWAY VENT DAMPER (HVD) CONTROLS

NTS



NOTE:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET
2. NOT USED
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET (3 METERS). FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100' [1.6kPa/m].
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0" [1500mm]. USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.
6. USE OF THE FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

6 DUCT CONNECTIONS - AIR TERMINAL UNITS

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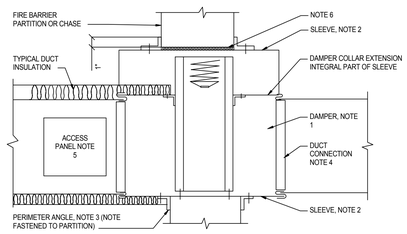

NOTE:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, 1S 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 AND NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. PERIMETER ANGELS: GALVANIZED STEEL, NOT LESS THAN 1 1/2"x1 1/2" , 14 GAGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
5. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH. FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
6. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

7 SECTION THRU FIRE DAMPER INSTALLATION

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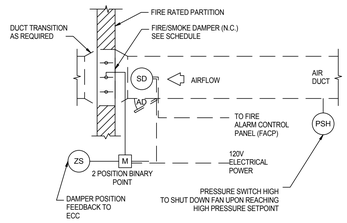

NOTE:
UPON DETECTION OF SMOKE BY THE SMOKE DETECTOR, THE FIRE/SMOKE DAMPER SHALL CLOSE & SEND AN ALARM TO THE ECC.

8 FIRE/SMOKE DAMPER CONTROL DIAGRAM

NTS

⚠1 AMENDMENT A00004	07.14.2014
BID DOCUMENTS	05.30.2014
CONSTRUCTION DOCUMENT CD2	06.05.2013

CONSULTANTS:

Stantec
Stantec Consulting
100 California Street, Suite 1000
San Francisco, CA 94111
T: 415.882.9500
F: 415.882.9523

PROFESSIONAL ENGINEER — MICHAEL T. MOORE — No. M19508 — MECHANICAL — 9-30-15 — STATE OF CALIFORNIA

05.30.2014

ARCHITECT

STANTEC | THE DESIGN PARTNERSHIP

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Drawing Scale	Location: 1660 South Columbian Way, Seattle, WA 98105	Building Number: B101 Mental Health Services	
Approved: Project Director	Date: JUNE 05, 2013 / Checked: Checker / Drawn: Author	Drawing Number: MH509 Volume 2b	Department of Veterans Affairs

CONSTRUCTION DOCUMENT 2
FULLY SPRINKLERED

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