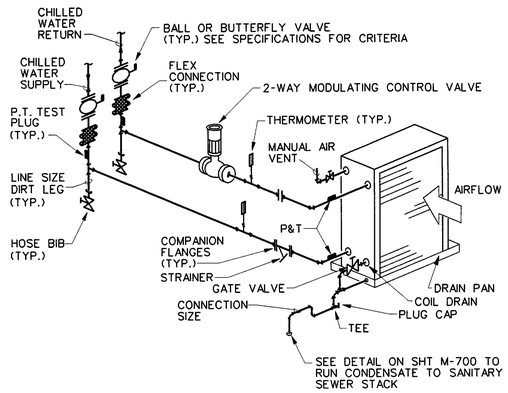
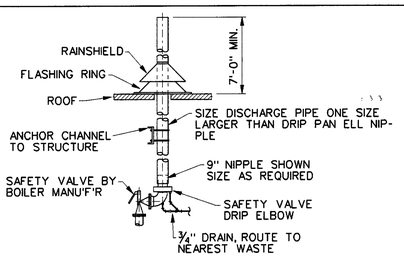


1 TYPICAL PIPING AT AHU COOLING COIL

NO SCALE

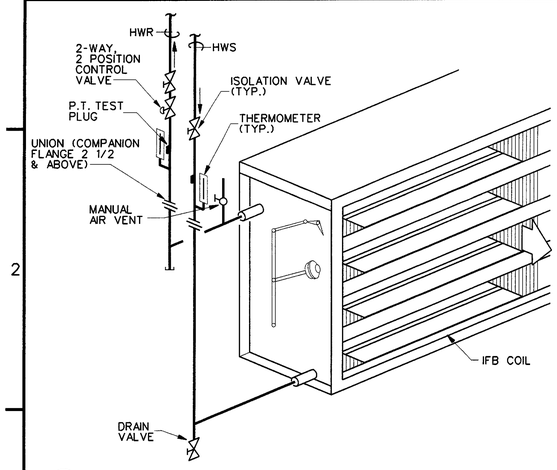
NOTES (FOR ALL NEW AND EXISTING CHILLED WATER COILS):

1. PROVIDE MANUAL AIR VENT AT HIGH POINT OF RETURN LINE.
2. WATER TO ENTER COIL ON AIR LEAVING SIDE FOR COIL TO OPERATE CORRECTLY.
3. INSTALL PRESSURE AND TEMPERATURE PLUGS EQUIVALENT TO FLOW DESIGN AS SHOWN ON ALL NEW AND EXISTING COILS.
4. CONTROL VALVE SHALL BE DODGE ENGINEERING CONTROLS, MODEL BV WITH STAINLESS STEEL BALL & STEAM, PTFE SEATS, METALLIC CHARACTERISTIC DISC, 600 PSI WOG, BLOWOUT PROOF STEM AND EQUAL PERCENTAGE FLOW CURVE. ACTUATORS SHALL BE NEMA 4, SPRING RETURN TO NORMALLY OPEN OR CLOSED POSITION AS REQUIRED WITH SUFFICIENT TORQUE TO CLOSE OFF VALVES AT A RATING OF 80 PSI DIFFERENTIAL.



11 CONNECTION AT SAFETY VALVE DRIP PAN ELBOW

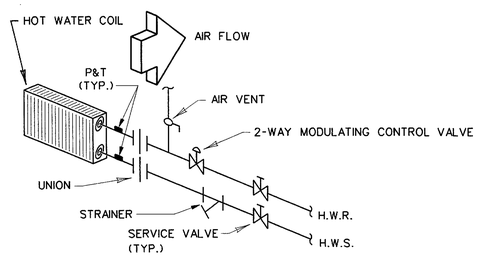
NO SCALE



13 HW IFB PREHEAT COIL PIPING

NO SCALE

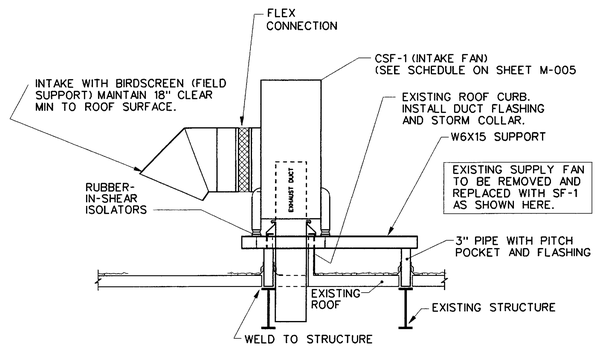
1. PROVIDE MANUAL AIR VENT AT HIGH POINT OF RETURN LINE.
2. WATER TO ENTER COIL ON AIR LEAVING SIDE FOR COIL TO OPERATE CORRECTLY.
3. INSTALL PRESSURE AND TEMPERATURE PLUGS EQUIVALENT TO FLOW DESIGN AS SHOWN ON ALL NEW AND EXISTING COILS.
4. CONTROL VALVE SHALL BE DODGE ENGINEERING CONTROLS, MODEL BV WITH STAINLESS STEEL BALL & STEAM, PTFE SEATS, METALLIC CHARACTERISTIC DISC, 600 PSI WOG, BLOWOUT PROOF STEM AND EQUAL PERCENTAGE FLOW CURVE. ACTUATORS SHALL BE NEMA 4, SPRING RETURN TO NORMALLY OPEN OR CLOSED POSITION AS REQUIRED WITH SUFFICIENT TORQUE TO CLOSE OFF VALVES AT A RATING OF 80 PSI DIFFERENTIAL.



2 PIPING AT EXISTING AHU OR DUCT MOUNTED HOT WATER REHEAT COIL

NO SCALE

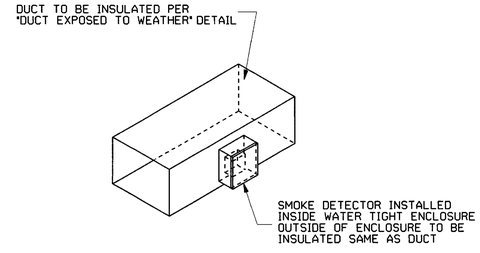
1. PROVIDE MANUAL AIR VENT AT HIGH POINT OF RETURN LINE.
2. WATER TO ENTER COIL ON AIR LEAVING SIDE FOR COIL TO OPERATE CORRECTLY.
3. INSTALL PRESSURE AND TEMPERATURE PLUGS EQUIVALENT TO FLOW DESIGN AS SHOWN ON ALL NEW AND EXISTING COILS.
4. CONTROL VALVE SHALL BE DODGE ENGINEERING CONTROLS, MODEL BV WITH STAINLESS STEEL BALL & STEAM, PTFE SEATS, METALLIC CHARACTERISTIC DISC, 600 PSI WOG, BLOWOUT PROOF STEM AND EQUAL PERCENTAGE FLOW CURVE. ACTUATORS SHALL BE NEMA 4, SPRING RETURN TO NORMALLY OPEN OR CLOSED POSITION AS REQUIRED WITH SUFFICIENT TORQUE TO CLOSE OFF VALVES AT A RATING OF 80 PSI DIFFERENTIAL.



NOTE: PROVIDE MEANS TO LUBRICATE BEARINGS EITHER BY ACCESS PANEL OR EXTERIOR MOUNTED GREASE FITTING.

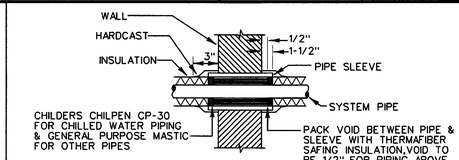
COMBUSTION SUPPLY FAN DETAIL

NO SCALE



4 SMOKE DETECTOR EXPOSED TO WEATHER INSTALLATION DETAIL

NO SCALE

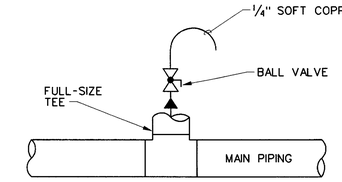


8 DETAIL PIPE SLEEVE THRU WALL

NO SCALE

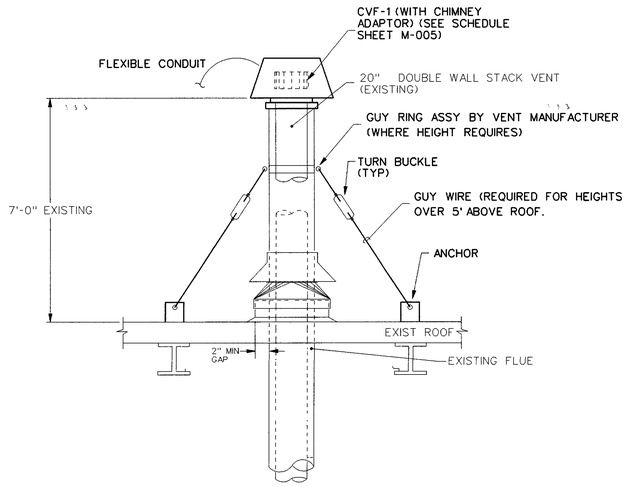
NOTES

1. WRAP JOINTS FORMED BY THE INSULATION & PIPE SLEEVE W/2 LAYERS OF "HARDCAST" DUCT JOINT WRAP.
2. SEE SPEC'S FOR MORE DETAILED INSTALLATION REQUIREMENTS.



9 TYPICAL VENT DETAIL FOR CHILLED AND HOT WATER PIPING

NO SCALE



BOILER STACK DETAIL

NO SCALE

NOTES:
1. ALL COMPONENTS ARE EXISTING EXCEPT FAN AND STACK ADAPTOR (FIELD VERIFY). PROVIDE GUY WIRES AS REQUIRED.
2. ATTACH ADAPTOR TO EXISTING STACK WITH SELF-TAPPING STAINLESS STEEL SCREWS FROM INSIDE TO OUT.
3. PROVIDE BEAD OF HI-TEMP SILICONE AT CIRCUMFERENCE OF ADAPTOR AND FAN INTERFACE.
4. SECURE FAN TO ADAPTOR THRU PRE-DRILLED HOLES IN FAN BASE WITH SELF TAPPING STAINLESS STEEL SCREWS.
5. PROVIDE BEAD OF HI-TEMP SILICONE AT OUTTER INTERFACE OF FAN AND ADAPTOR FOR WATER-PROOFING (DO NOT BLOCK DRAIN HOLES).

THESE DOCUMENTS HAVE BEEN PREPARED PRIMARILY BASED ON INFORMATION PROVIDED BY OTHERS. I.C. THOMASSON HAS NOT VERIFIED THE ACCURACY OF ALL INFORMATION PROVIDED BY OTHERS. SEE LIMIT OF LIAIBILITIES STATEMENT ON COVER SHEET.

US ARMY ENGINEERING AND SUPPORT CENTER HUNTSVILLE

Symbol	Description	Date	Appr.

Checked by: WTT	Date: 02/27/04
Dwn by: ICT	CADD File Name: 312M502.DGN
DACA87-03-D-0006	ICT Project No. 203121
Approved by: Chief, Prj. Mgmt. Division	Plot date: 02/27/04 Plot scale:

TASK ORDER #: FRR004

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DEFENSE INFORMATION SCHOOL FT. MEADE MARYLAND

MECHANICAL DETAILS

STATE OF MARYLAND — MECHANICAL ENGINEER

Sheet reference number: M-503