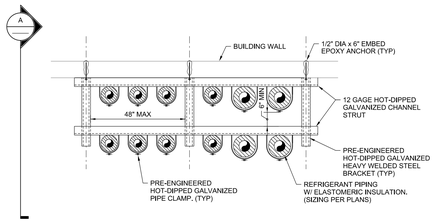
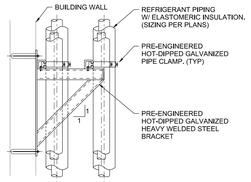
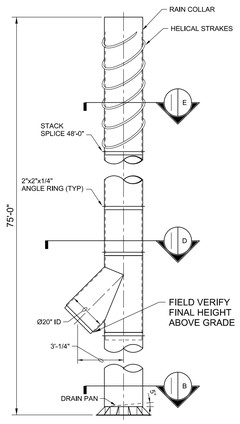
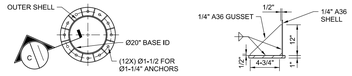


1 REFRIGERANT PIPING WALL SUPPORT
NTS



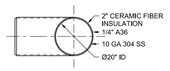
SECTION A
NTS



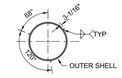


SECTION B
NTS

SECTION C
NTS



SECTION D
NTS

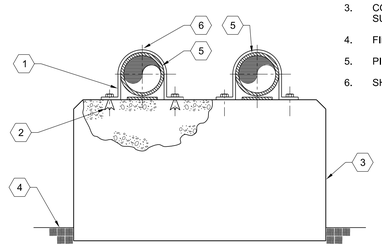


SECTION E
NTS

NOTES:

1. REFER TO 23 31 13 FOR ADDITIONAL INFORMATION.
2. INTERNAL DIMENSIONS, INSULATION THICKNESS AND STACK HEIGHT SHALL BE MAINTAINED. OTHER DIMENSIONS ARE FOR REFERENCE AND SHALL BE VERIFIED BY STACK MANUFACTURER.

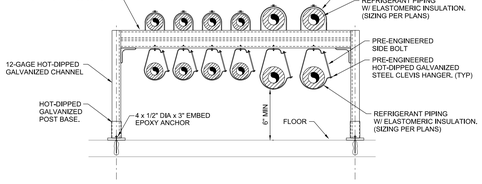
4 INSULATED FAN STACK
NTS



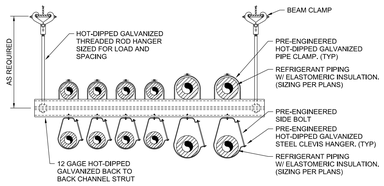
KEY NOTES

1. SPACER BLOCK AS REQUIRED.
2. CONCRETE ANCHORS, SIZE AND NUMBER AS REQUIRED.
3. CONCRETE PEDESTAL SUPPORT.
4. FINISH GRADE.
5. PIPE.
6. SHORT CLIP.

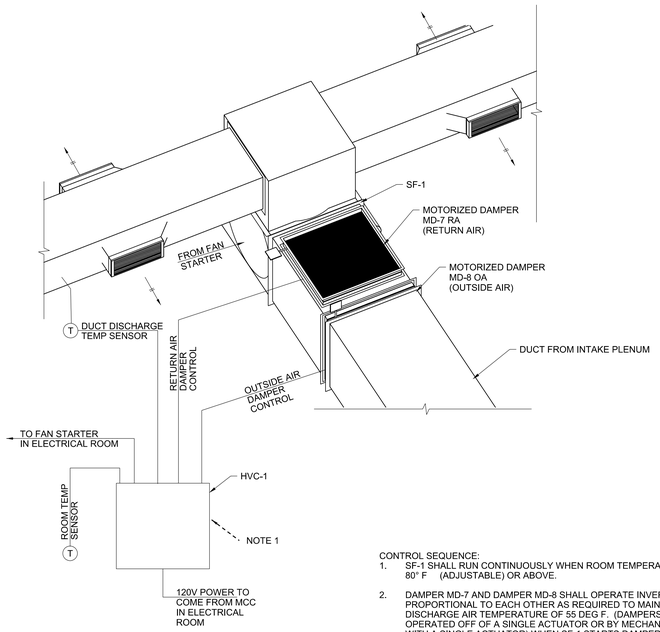
5 PIPE SUPPORT
NTS



2 REFRIGERANT PIPING GROUND SUPPORT
NTS



3 REFRIGERANT PIPING CEILING SUPPORT
NTS



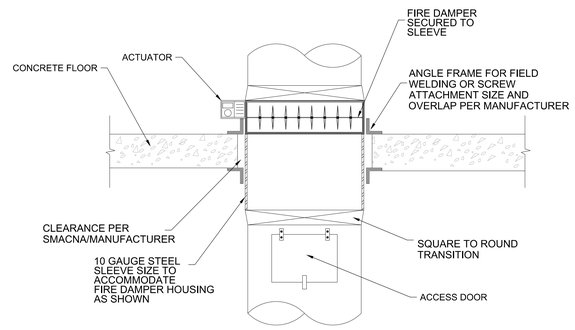
CONTROL SEQUENCE:

1. SF-1 SHALL RUN CONTINUOUSLY WHEN ROOM TEMPERATURE REACHES 80° F (ADJUSTABLE) OR ABOVE.
2. DAMPER MD-7 AND DAMPER MD-8 SHALL OPERATE INVERSELY PROPORTIONAL TO EACH OTHER AS REQUIRED TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 55 DEG F. (DAMPERS MAY BE OPERATED OFF OF A SINGLE ACTUATOR OR BY MECHANICALLY LINKING WITH A SINGLE ACTUATOR) WHEN SF-1 STARTS DAMPER MD-7 SHALL BE FULLY OPEN AND DAMPER MD-8 SHALL BE FULLY CLOSED.
3. FAN SHALL HAVE A MINIMUM RUN TIMER SET TO RUN A MINIMUM OF 10 MINUTES.
4. DAMPER MD-7 SHALL BE FAIL OPEN.
5. DAMPER MD-8 SHALL BE FAIL CLOSED.

NOTES

1. HVAC CONTROL PANEL SHALL UTILIZE A CONTROLLER EQUIVALENT TO A HONEYWELL T775M. FURNISH WITH APPROPRIATE TEMPERATURE SENSORS AND MODULATING CONTROL SIGNAL.

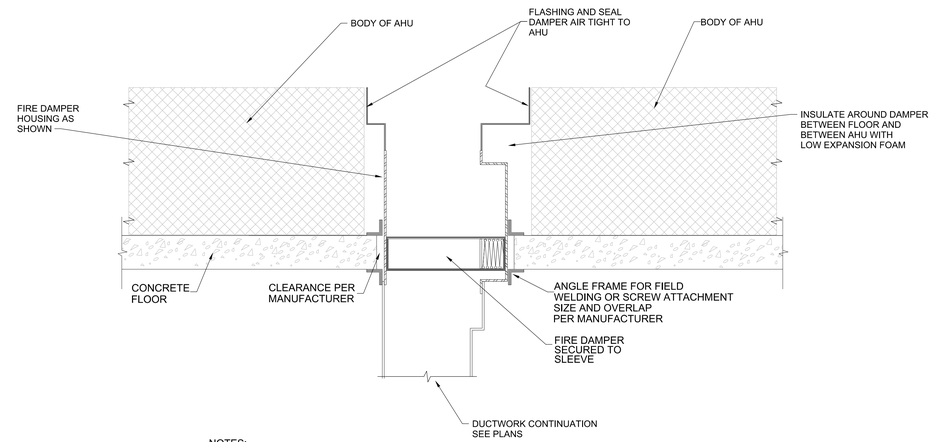
6 COLD CLIMATE FAN (SF-1) CONTROL DIAGRAM
NTS



NOTES:

1. INSTALL DAMPER IN ACCORDANCE TO MANUFACTURERS WRITTEN INSTRUCTIONS.

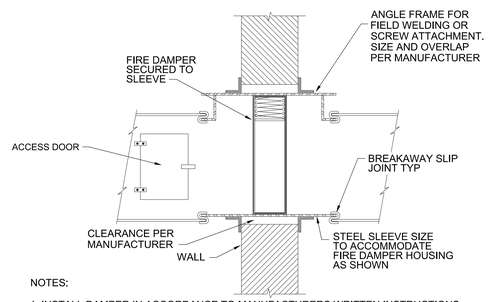
7 HEAVY DUTY FIRE DAMPER DETAIL
NTS



NOTES:

1. INSTALL DAMPER IN ACCORDANCE TO MANUFACTURERS WRITTEN INSTRUCTIONS.
2. DAMPER ACCESSIBLE THRU AHU

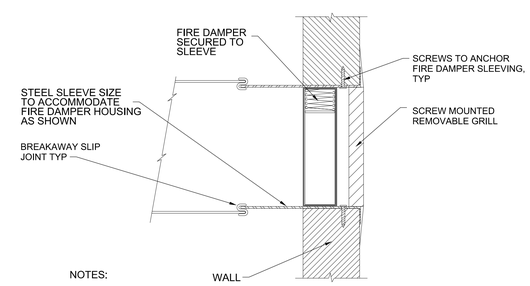
8 FIRE DAMPER CEILING/FLOOR INSTALLATION DETAIL
NTS



NOTES:

1. INSTALL DAMPER IN ACCORDANCE TO MANUFACTURERS WRITTEN INSTRUCTIONS.

TYPE A



NOTES:

1. INSTALL DAMPER IN ACCORDANCE TO MANUFACTURERS WRITTEN INSTRUCTIONS.

TYPE B

9 FIRE DAMPER WALL INSTALLATION DETAIL
NTS

THIS DRAWING IS LOANED FOR SOLE USE OF THE INTENDED RECIPIENT AND ONLY FOR THE LIMITED PURPOSES FOR WHICH IT WAS PROVIDED. USE BY OTHER ENTITIES OR FOR OTHER PURPOSES IS PROHIBITED AND AT THE USER'S OWN RISK. DRAWINGS ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING RECIPIENT.

PART	REV	DESCRIPTION	DRW	CHKR	DE	DVR	DM	DATE
	0	ISSUED FOR CONSTRUCTION	JP	JM	TP		LE	06/2017

REVISION OR ISSUE PURPOSE

PE	DATE

REVISION APPROVALS

WE	AR	CV	ST	HV	EM	FP	PD	EE	IE	M	NP

SQUAD CHECK

RPE

THEODORE J. PRICE
REGISTERED ENGINEER
AGRICULTURE
03JUL 2017
COMMERCE
No. 107138
STATE OF TENNESSEE

REV.	DATE

DRAWING APPROVALS

		DATE
DRW	J PICMAN	06/16/17
CHKR	J MCMURREN	06/16/17
DE	T PRICE	06/16/17
DVR		
DM	L ELLIS	06/16/17
PE	Teresa J. Pierce, P.E.	

UCOR
URS | CH2M Oak Ridge LLC

OF200 Mercury Treatment Facility
Designed by URS|CH2M Oak Ridge LLC (UCOR) for the Department of Energy
Oak Ridge Office of Environmental Management
under U. S. Government contract DE-SC-0004645

Y-12 National Security Complex managed and operated by Consolidated Nuclear Security, LLC for the Department of Energy under U.S. Government contract DE-NA0001942
« Oak Ridge, Tennessee »

PROJECT NAME:
OF200 MERCURY TREATMENT FACILITY

HVAC
TREATMENT FACILITY
DETAILS

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
3	H	A	D	NC	FAC	AR	E	9410-02	X	U

SH.	OF	TYPE		PART	REV
1	1	DD	H941002-F-0013	000	0

662886

ISSUED FOR CONSTRUCTION

2017\06\29 8:55:37 PM