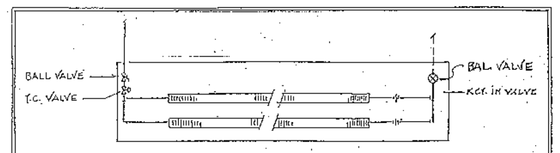
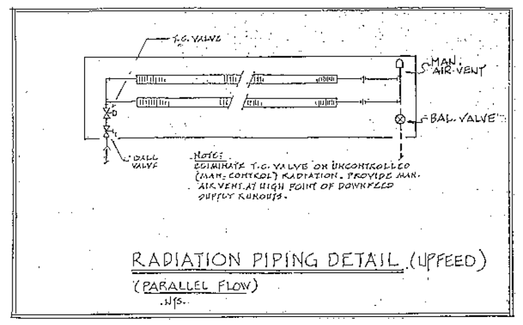
SYMBOL LEGEND

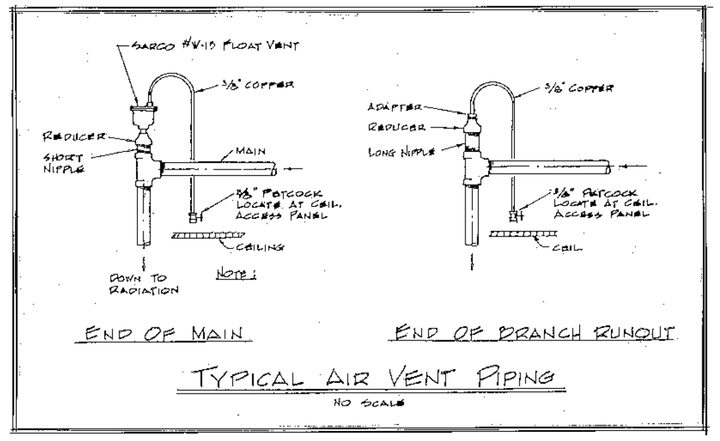
SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER
	EXHAUST OR RETURN REGISTER
	MANUAL DAMPER
MOD.	MOTOR OPERATED DAMPER
F.D.	FIRE DAMPER
S.D.	SMOKE DAMPER
F.O.S.	FUEL OIL SUPPLY
F.O.R.	FUEL OIL RETURN
V	VENT LINE
	ROUND OR SPIRAL DUCT
R.S.	REFRIGERANT SUCTION
R.L.	REFRIGERANT LIQUID
D	CONDENSATE DRAIN
T	THERMOSTAT
	BUTTERFLY VALVE
H.W.S.	HOT WATER SUPPLY
H.W.R.	HOT WATER RETURN
R.B.	RETURN BEND
P.F.	PARALLEL FLOW
M.C.	MANUAL CONTROL
F.T.	FIN-TUBE
C.U.H./U.H.	CABINET UNIT HEATER/UNIT HEATER
	BALANCING VALVE
	ACOUSTICAL LINED DUCTWORK
S	SPACE SENSOR
U	UNDERCUT IN DOOR
S	SPACE SENSOR W/GUARD
	ALUMINUM DUCTWORK



RADIATION PIPING DETAIL (DOWNFEED)
(PARALLEL FLOW)
N.T.S.

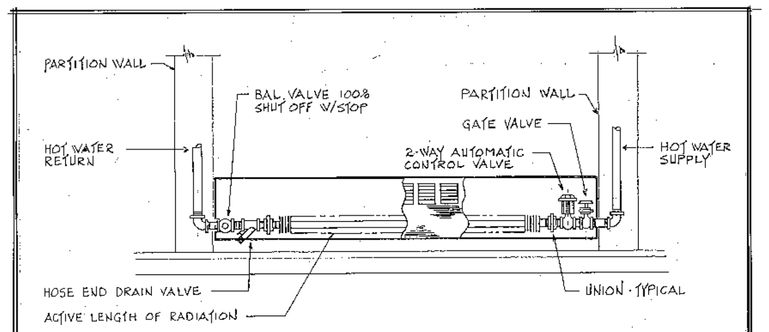


RADIATION PIPING DETAIL (UPFEED)
(PARALLEL FLOW)
N.T.S.

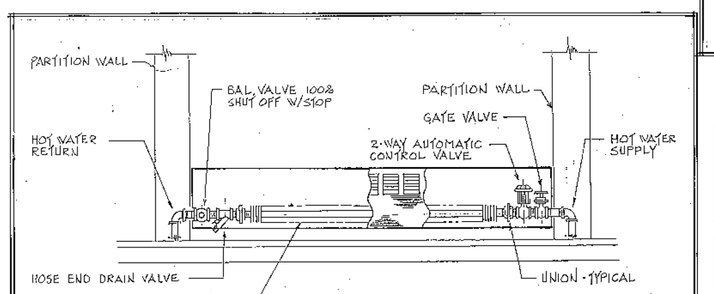


END OF MAIN — END OF BRANCH RUNOUT

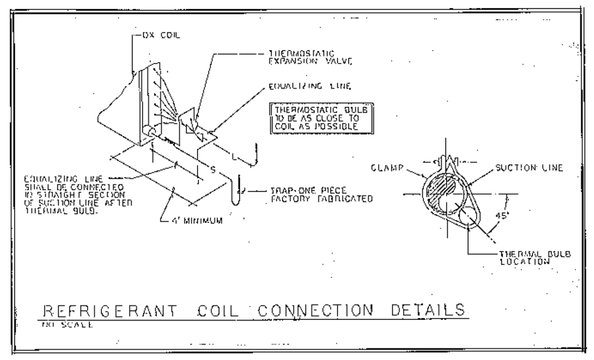
TYPICAL AIR VENT PIPING
NO SCALE



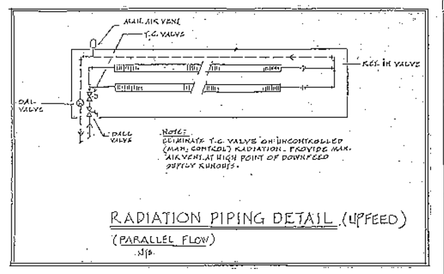
HOT WATER FIN TUBE RADIATION
PIPING DAIGRAM (DOWNFEED)
NO SCALE



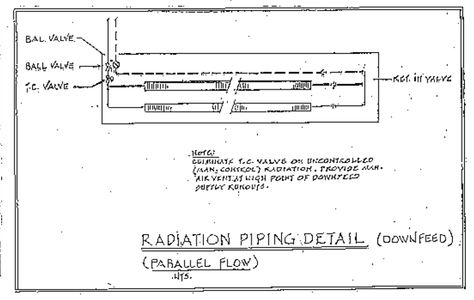
HOT WATER FIN TUBE RADIATION
PIPING DAIGRAM (UPFEED)
NO SCALE



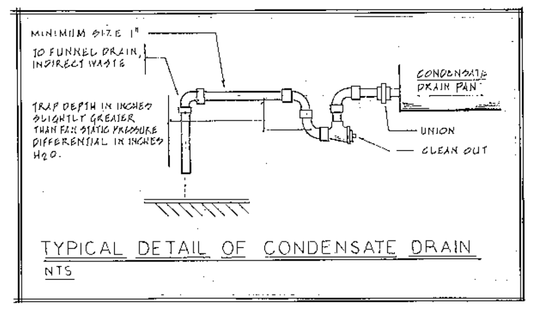
REFRIGERANT COIL CONNECTION DETAILS
NO SCALE



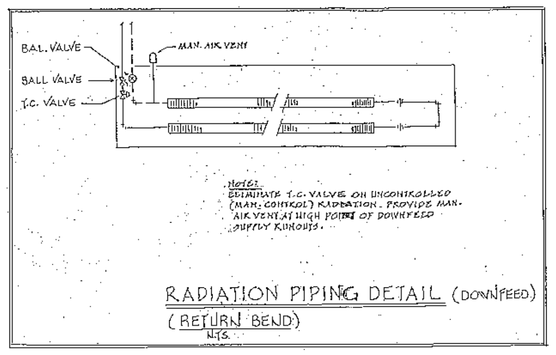
RADIATION PIPING DETAIL (UPFEED)
(PARALLEL FLOW)
N.T.S.



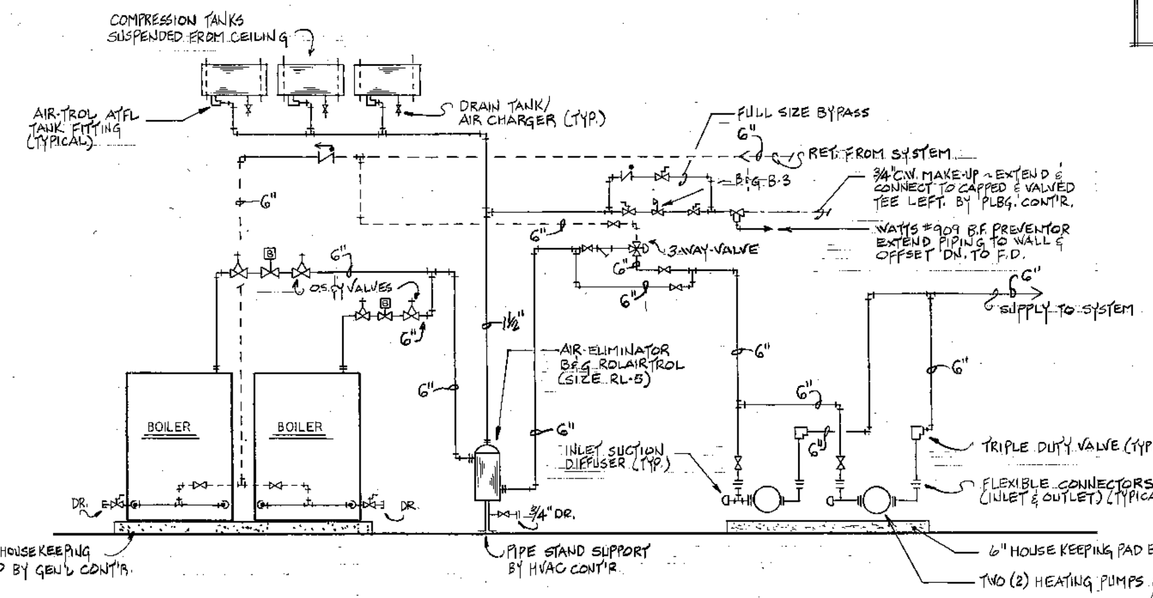
RADIATION PIPING DETAIL (DOWNFEED)
(PARALLEL FLOW)
N.T.S.



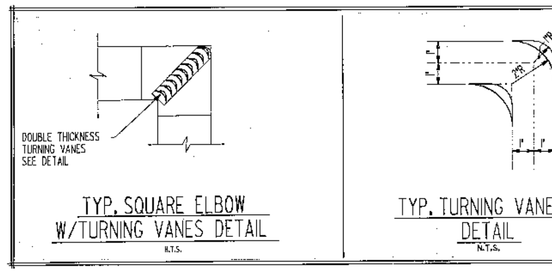
TYPICAL DETAIL OF CONDENSATE DRAIN
NTS



RADIATION PIPING DETAIL (DOWNFEED)
(RETURN BEND)
N.T.S.



BOILER ROOM PIPING DIAGRAM
N.T.S.



TYP. SQUARE ELBOW W/TURNING VANES DETAIL
N.T.S.

TYP. TURNING VANES DETAIL
N.T.S.

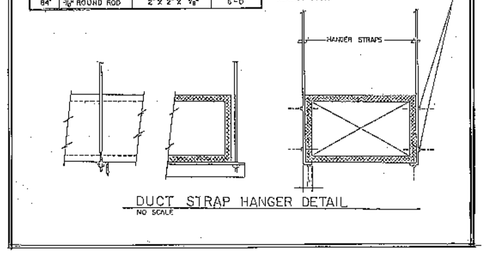
HANGER SIZES FOR RECTANGULAR DUCT

DUCT SIZE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1" x 16 GAGE STRAP	NONE REQUIRED	10'-0"
24"	3/8" ROUND ROD	1½" x 1½" x 1/8"	8'-0"
48"	1/2" ROUND ROD	2" x 2" x 1/8"	8'-0"
60"	5/8" ROUND ROD	2½" x 2" x 1/8"	8'-0"
84"	3/4" ROUND ROD	2½" x 2½" x 1/8"	6'-0"

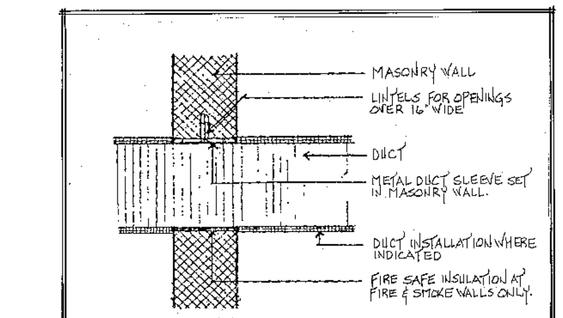
NOTE:
ALL SUPPLY AIR DUCT SHALL BE INSULATED EXTERNALLY AS PER SPECIFICATIONS.

NO TOP RODS ALLOWED

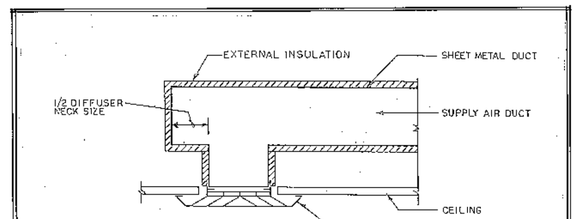
SELF TAPPING CADMIUM PLATED HEX HEAD SHEET METAL SCREW STRAPS TO BE TIGHT AGAINST DUCT.



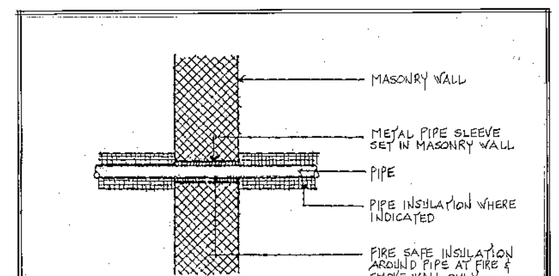
DUCT STRAP HANGER DETAIL
NO SCALE



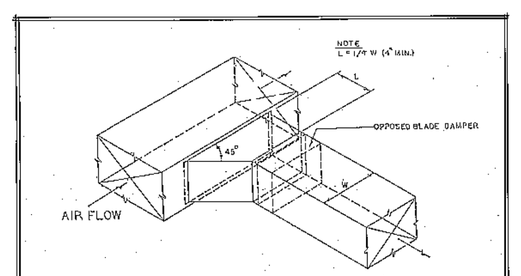
PENETRATION @ MASONRY WALL
NO SCALE



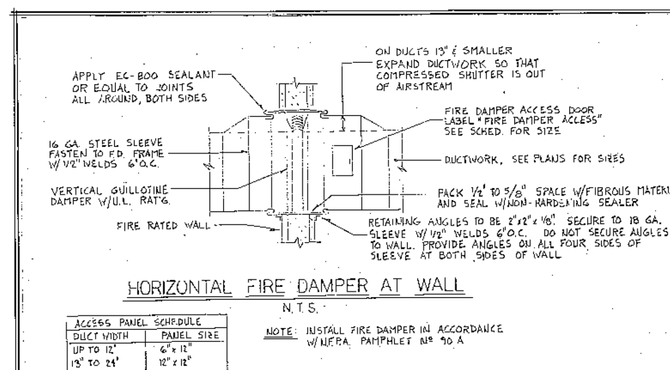
TYPICAL CEILING DIFFUSER DETAIL
NO SCALE



PIPE PENETRATION @ MASONRY WALL
NO SCALE.



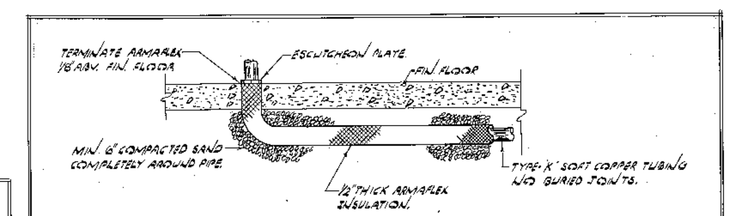
BRANCH DUCT TAKE-OFF & DAMPER DETAIL
NO SCALE



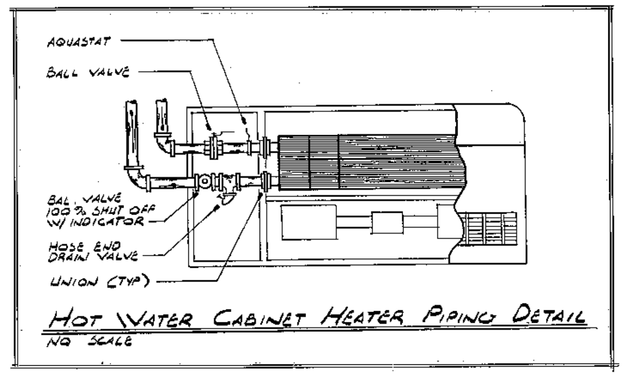
HORIZONTAL FIRE DAMPER AT WALL
N.T.S.

ACCESS PANEL SCHEDULE	
DUCT WIDTH	PANEL SIZE
UP TO 12"	6" x 12"
13" TO 24"	12" x 18"
25" & LARGER	18" x 18"

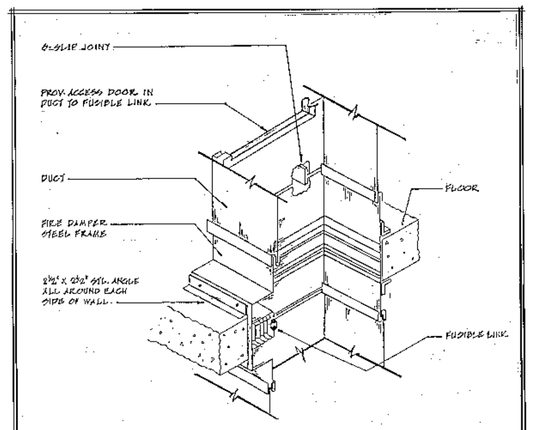
NOTE: INSTALL FIRE DAMPER IN ACCORDANCE W/NFPA PAMPHLET NO. 90A



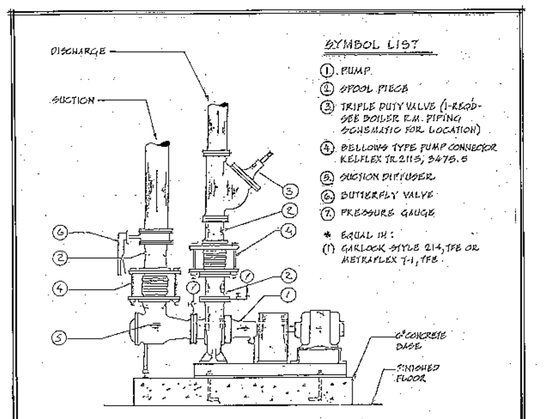
DETAIL OF BURIED PIPING
NO SCALE



HOT WATER CABINET HEATER PIPING DETAIL
NO SCALE



FIRE DAMPER INSTALLATION DETAIL
N.T.S.



BASE MOUNTED PUMP DETAIL
N.T.S.

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REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT NUMBER 2155.01

PROJECT TITLE
ALTERATIONS AND ADDITIONS TO :
BOLTON ELEMENTARY SCHOOL
NOTCH ROAD
BOLTON, CONNECTICUT

DRAWING TITLE
MECHANICAL DETAILS

SCALE AS NOTED | DATE 8/17/92

M-5

DRAWING 65 OF 89