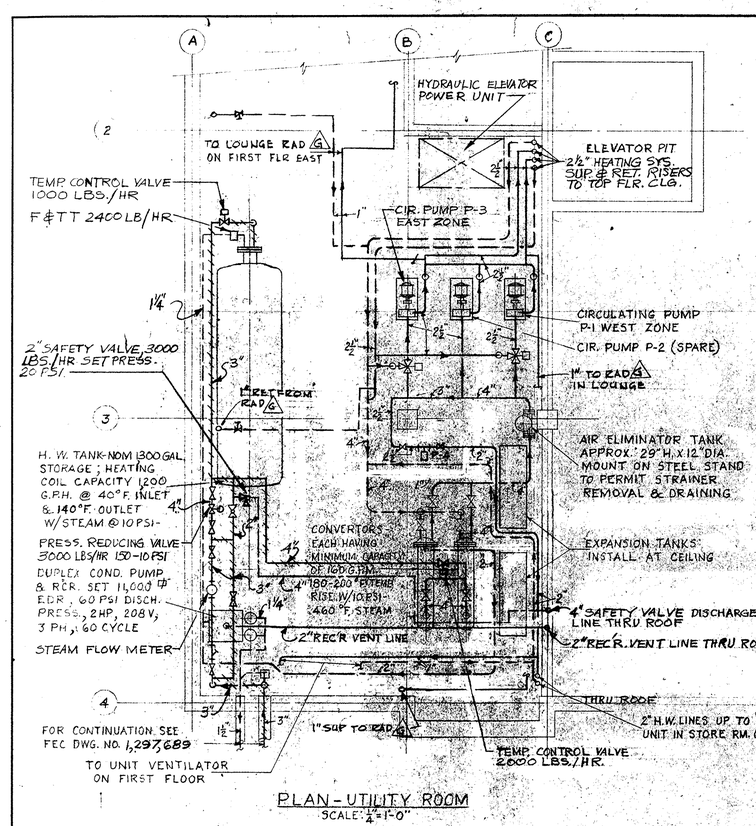


PLAN - UTILITY ROOM
SCALE: ¼" = 1'-0"

PUMP SCHEDULE

SYMBOL	G.P.M.	HEAD PRESS.	RPM	H.P.	REMARKS
P-1	60	30'	1750	1	WEST ZONE - BASE MOUNTED
P-2	60	30'	1750	1	SPARE - BASE MOUNTED
P-3	60	30'	1750	1	EAST ZONE - BASE MOUNTED
P-4	70	24'	1750	¾	HTG. & VENT. UNIT & UNIT VENTILATORS - IN-LINE

RADIATION RUN-OUT SCHEDULE

G.P.M.	PIPE SIZE
0-1.5	½"
1.5-2.2	¾"
2.2-7	1"

FINNED TUBE RADIATION SCHEDULE (190° AVE. WATER TEMP.)

SYMBOL	ROWS	BTU/LF	SIZE	MATERIAL	FIN TUBE LENGTH	HEIGHT OF COVER
A	1	1160	16"X4½"X4½"X40	STEEL	7'-6"	14"-16"
B	1	1160	14"X4½"X4½"X40	STEEL	9'-6"	14"*
C	1	1160	12"X4½"X4½"X40	STEEL	3'-6"	14"
D	1	1160	12"X4½"X4½"X40	STEEL	5'-6"	14"
E	2	1620	14"X4½"X4½"X40	STEEL	9'-6"	20"-21"
F	2	1620	12"X4½"X4½"X40	STEEL	4'-0"	20"
G	2	"	"	"	11'-6"	16" TOP OUTLET

* 20" FOR LR/BR 01A & 11A

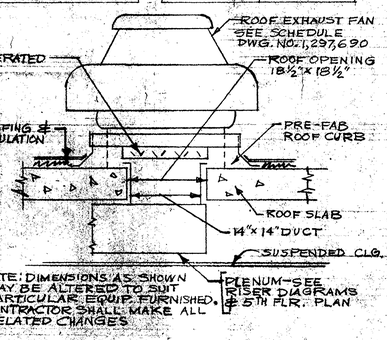
CONVECTOR SCHEDULE (190° AVE WATER TEMP.)

SYMBOL	BTU/HR	SIZE LENGTH	SIZE DEPTH	SIZE HEIGHT	REMARKS
1	10,700	56"	8"	14"	FLAT TOP WALL HUNG, FRONT OUTLET
2	12,100	64"	6"	32"	SEMI-RECESSED; GRILLED INLET
3	10,800	48"	8"	32"	FLAT TOP-WALL HUNG

UNIT VENTILATORS — CLASSROOM TYPE

SYMBOL	BTU/HR	C.F.M. STD. AIR	% OUT-DOOR AIR	FAN R.P.M.	SIZE LENGTH	SIZE DEPTH	SIZE HEIGHT	MOTOR
1	38,800	500	50	640	58"	9¾	28"	½ HP; 115 V 1Ø, 60 CYC.

DESIGN CONDITIONS: TEMP. OUTSIDE AIR - 0°F.
TEMP. ROOM AIR - 70°F.
TEMP. WATER ENTERING HTG. COIL - 200°F.
TEMP. WATER LEAVING HTG. COIL - 190°F.



NOTE: DIMENSIONS AS SHOWN MAY BE ALTERED TO SUIT PARTICULAR EQUIP. FURNISHED. CONTRACTOR SHALL MAKE ALL RELATED CHANGES

ROOF FAN DETAIL

NO SCALE

EXH. FAN SCHEDULE

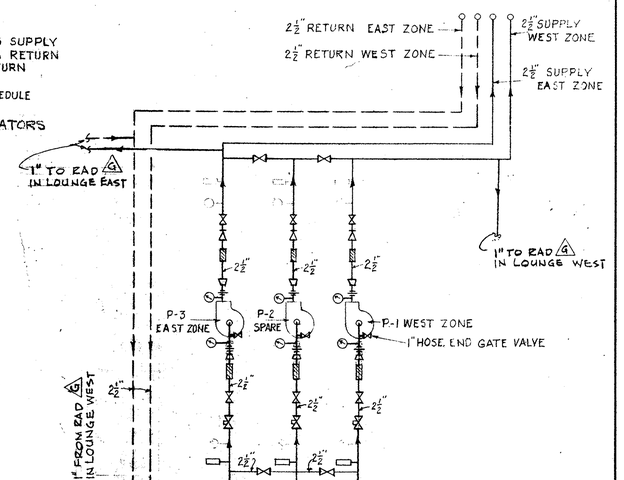
SYMBOL	LOCATION	CFM	S.P.	RPM	H.P.	REMARKS
EF-1	ROOF	600	¼"	1140	½	CENTRIFUGAL TYPE DIRECT DRIVE WITH PRE-FAB CURB & MO DAMPERS
EF-2	"	1125			¼	
EF-3	"	1500			¼	
EF-4	"	"				
EF-5	"	"				
EF-6	"	"				
EF-7	"	1750	⅛	1550	⅓₀	2-SPEED
EF-8	MECH. RM.	2100	⅛	1140	⅛	PROP. TYPE AUTO SHUTTERS, LH. THERMOSTAT

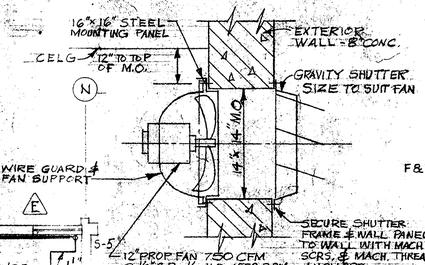
LEGEND

- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- BALANCING COCK
- PRESSURE REDUCING VALVE
- TEMPERATURE CONTROL VALVE
- MOTOR OPERATED 3-WAY VALVE
- INDICATING PRESSURE GAGE
- INDUSTRIAL THERMOMETER
- FLEXIBLE CONNECTOR
- BUCKET TRAP
- F&TT-FLOAT & THERMOSTATIC TRAP
- SAFETY VALVE
- RELIEF VALVE
- REDUCER
- UNION
- STRAINER
- STEAM LINE
- HOT WATER HEATING SUPPLY
- HOT WATER HEATING RETURN
- CONDENSATE RETURN
- ANCHOR
- (A) FINNED TUBE RADIATOR - SEE SCHEDULE
- (I) SYMBOL FOR CONVECTOR
- [1] SYMBOL FOR UNIT VENTILATORS
- (A) AUTOMATIC AIR VENT
- (V) VACUUM BREAKER
- BALANCING VALVE

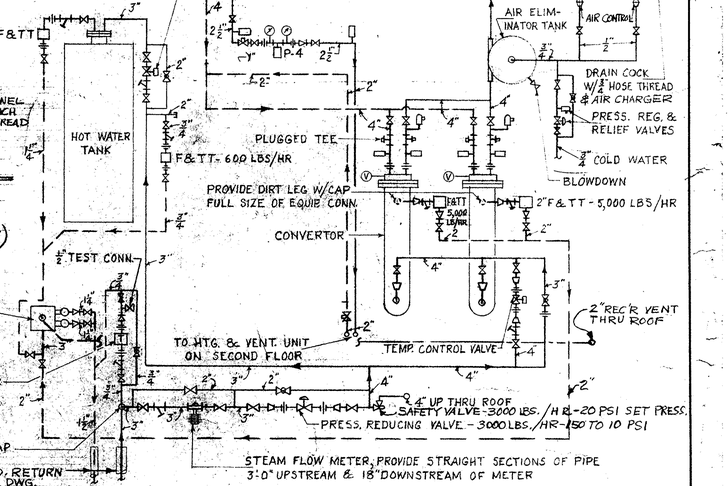
REVISION

SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED

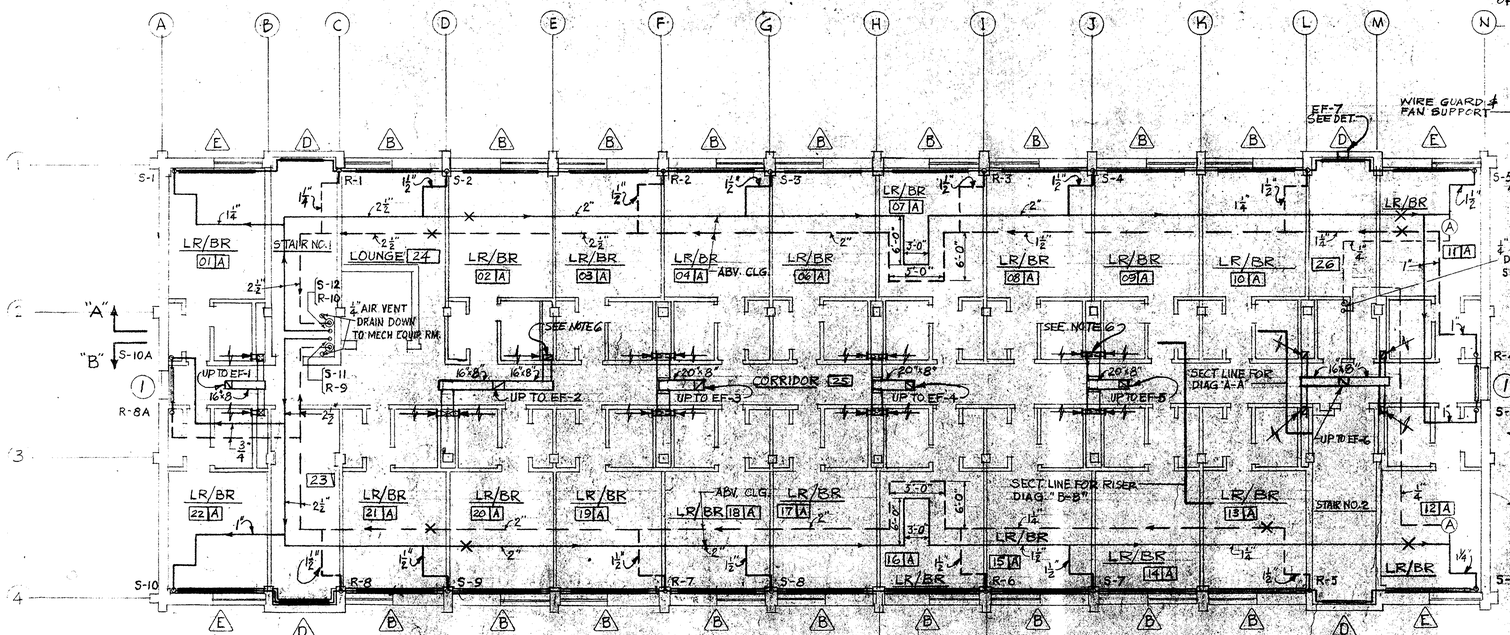




TYPICAL LAUNDRY EXHAUST FAN
NO SCALE
(MECH. RM. FAN SIMILAR)



SCHEMATIC ARRGT. OF STEAM & HOT WATER PIPING IN UTILITY ROOM
NO SCALE



FIFTH FLOOR PLAN*
SCALE: ⅛" = 1'-0"

* SEE NOTE 4 & "BID ITEM SUMMARY"

BID ITEM SUMMARY

BID ITEMS AS NUMBERED PROVIDE FOR CONSTRUCTION AS FOLLOWS:
ITEM 1 & 1-4 STORY BLDG. 152'-4" LG.
" 2 & 2-5 " " 182'-4" LG.
" 3 & 3A-5 " " 152'-8" LG.
" 3B & 4 " " 182'-8" LG.
* REFLECTS ADDED COST OF TERRACE AND DOES NOT AFFECT WORK SHOWN

GRAPHIC SCALES

⅛" = 1'-0" 0' 3' 10' 20' 30' 40'
¼" = 1'-0" 0' 5' 15' 20'

NOTES:
1. FOR AIRST THRU FOURTH FLOOR PLANS SEE FEC DWG. NO. 1,297,690
2. FOR RISER DIAGRAMS SEE FEC DWG. NO. 1,297,692
3. FOR STEAM & CONDENSATE SERVICES TO UTILITY ROOM SEE FEC DWG. NO. 1,297,689
4. FLOOR PLAN AS SHOWN IS APPLICABLE TO BID ITEM 3A (5 STORIES, 165'-8" LONG). FOR APPLICABLE TO BID ITEMS 1, 2 & 3B, SEE ARCHITECTURAL DRAWINGS.
5. DUCTWORK SHOWN ON THIS DRAWING IS ABOVE 5TH FLOOR CEILING; FOR DUCTWORK ON OTHER FLOORS SEE APPLICABLE PLANS & VENT RISER DIAGRAMS
6. ALL EXHAUST FAN RISERS SHALL HAVE LONG DIMENSIONS PARALLEL TO SIDES OF PIPE SPACE

CFD NO.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NORTHEAST DIVISION BOSTON, MASS.	
DES H.M.	FIRE PROT HOLBROOK	NAVAL SCHOOL COMMAND NEWPORT, R.I.	
DR W.S.	SAF ENGR HOLBROOK	WAVES B.O.Q.	
CHK H.M.	SAN ENGR	FLOOR PLAN SCHEDULES & DETAILS HEATING & VENTILATING H-3	
SUP E.M.			
PROJ ENGR J.A. CIRILLO			
DIRECTOR O. KONNELL			
APPROVED	DATE	CODE IDENT NO 80091	SIZE F
CFD FOR COMMANDER NFEC		FEC DRAWING NO. 1,297,691	
		CONST. CONTR. NO. N62474-68-C0108	
		SCALE GRAPHIC	SPEC 90596/68
		SHEET 35 OF 41	

PWC Dwg No. 18046-187