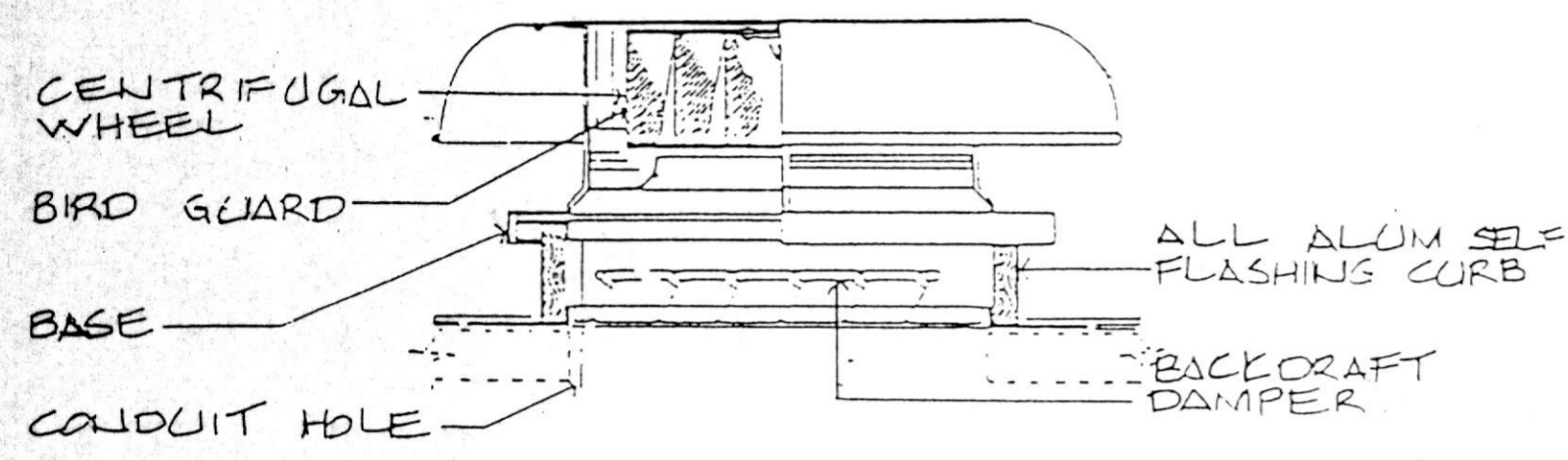
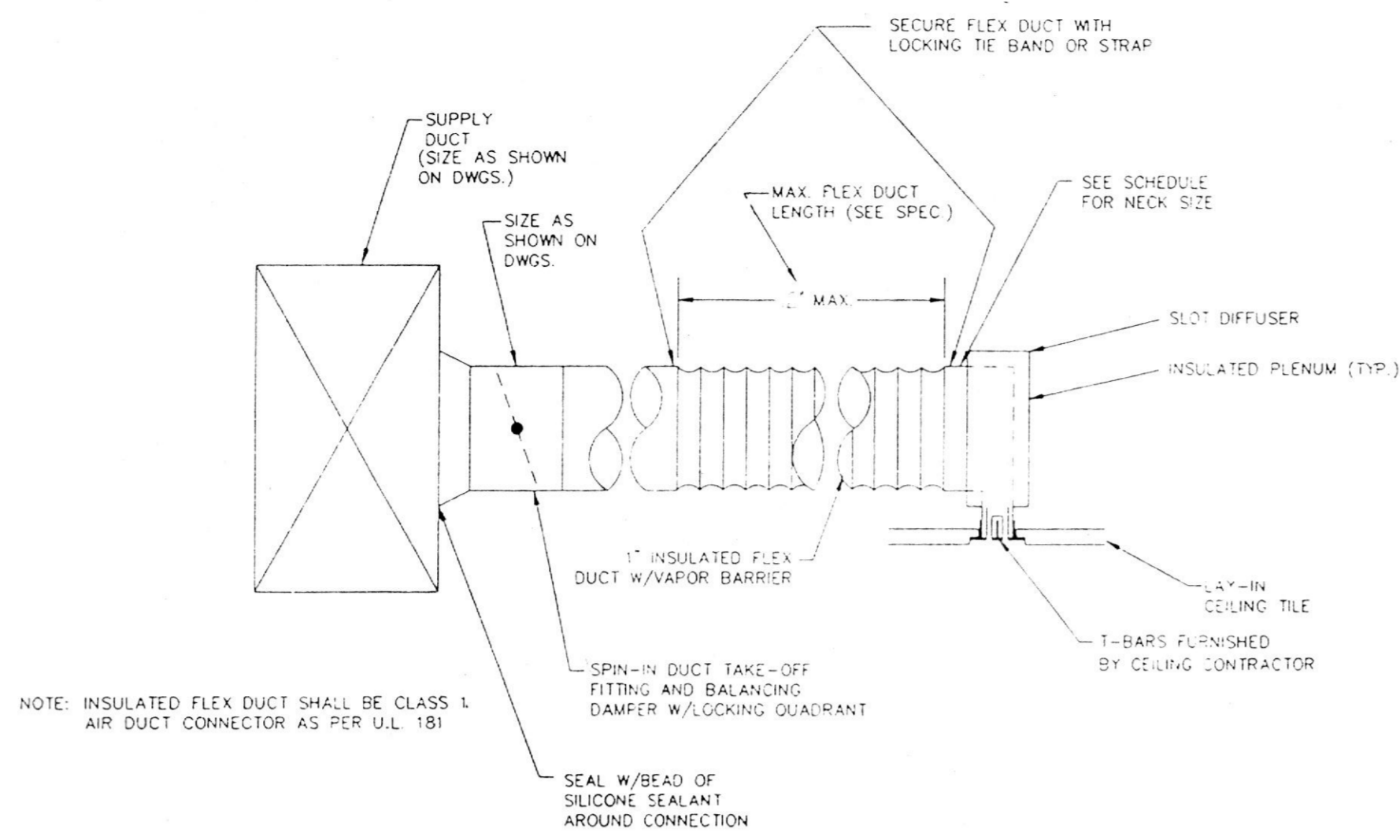


WATER HEATER DETAIL
SCALE: NONE



ROOF MOUNTED EXHAUST FAN DETAIL
NO SCALE

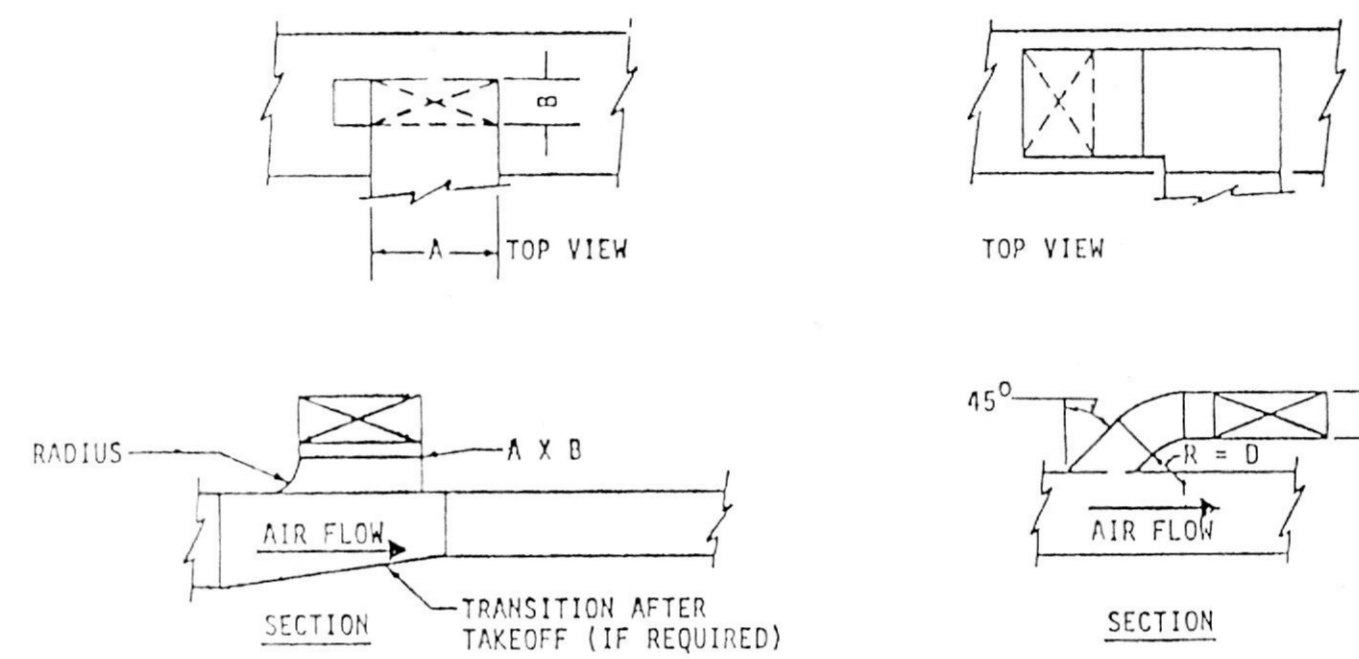


SLOT DIFFUSER DUCT CONNECTION DETAIL
SCALE: NONE

BYPASS BOX WITH REHEAT COIL SCHEDULE						
NO.	SIZE	REHEAT COIL			LOCATION SERVED	
		MAX CFM	MIN CFM	MBH KW		
1	6	215	45	11.1 3.5	GROUP STUDY (W/SKY LIGHT)	
2	6	215	45	7.2 2.1	GROUP STUDY (W/O SKY LIGHT)	
3	12	760	152	27.6 8.1	CLASSROOM	

REHEAT COIL SCHEDULE						
NO.	COIL SIZE	VELOCITY FPM	CFM	MBH	KW	LOCATION SERVED
2	20 x 12	850	1245	66.7	19.5	MAIN LIBRARY ROOM SOUTH - 120W
3	10 x 9	570	215	4.7	2.5	LIBRARIAN ROOM
4	10 x 9	510	190	12.1	3.7	WORK ROOM WINDOW
5	14 x 8	740	520	27.5	8.0	PERIODICAL ROOM

PLUMBING FIXTURE SCHEDULE						
NO.	FIXTURE	C.W.	H.W.	SAN.	VENT	REMARKS
P-1	WATER CLOSET	1/2"	----	4"	2"	FLOOR MOUNTED, FLUSH TANK
P-2	LAVATORY	1/2"	1/2"	2"	1 1/2"	COUNTER TOP
P-3	COUNTER SINK	1/2"	1/2"	2"	1 1/2"	
P-4	SINK	1/2"	1/2"	2"	1 1/2"	



NOTE: BOTTOM TAKEOFFS SIMILAR. SAME FOR EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

TYPICAL TAKEOFFS FROM TOP OF RECTANGULAR DUCTS

SYMBOL	ABBREVIATION	DESCRIPTION
—	SAN	SANITARY PIPE
—	V	VENT PIPE
—	CW	COLD WATER
—	HW	HOT WATER
—	HWR	HOT WATER RECIRCULATION
—	G	GAS PIPE
—	HS	HEATING WATER SUPPLY
—	HR	HEATING WATER RETURN
—	SW	STORM WATER
—	R.L.	RAIN LEADER
—	C.O.	CLEAN OUT
—		SHUT OFF VALVE
—		BALANCING VALVE
—	F.D.R.	FLOOR DRAIN
—	R.D.R.	ROOF DRAIN
—		VOLUME DAMPER
—	FD	FIRE DAMPER
—	S.A.	SUPPLY AIR
—	R.A.	RETURN AIR
—	E.A.	EXHAUST AIR
—	D	DROP IN DUCT ELEVATION
—	R	RISE IN DUCT ELEVATION
—	T-STAT	THERMOSTAT
—	W.H.	WALL HYDRANT
—	CX	CONNECT TO EXISTING
—	EX	EXISTING
—	RX	REMOVE EXISTING
—	EXTR	EXISTING TO REMAIN
—	CLG	CEILING
—	BLW	BELOW
—	ABV	ABOVE
—	TYP.	TYPICAL
—	EXH.	EXHAUST
—	RTU	ROOFTOP UNIT
—		AREAS TO BE SPRINKLERED UNDER PHASE I
—		AREAS PRESENTLY SPRINKLERED
—		ZONE VALVE WITH ZONE DESIGNATION
—		ZONE DESIGNATION

EQUIPMENT CAPACITIES LIST

WATER HEATER #1: A.O. SMITH MODEL DEL-6, 6 GALLONS CAPACITY, 1500 WATTS ELEMENT, 8 GAL/HR RECOVERY AT 80°F TEMP. RISE, 120 VOLTS, 1 PHASE.

EXHAUST FAN - 1: PENN MODEL LC-20A, 2260 CFM, 0.25 IN. S.P., 1/2 H.P., 620 RPM, 120 VOLTS, 1 PHASE, WITH SELF-FLASHING ALUMINUM SONOTROL CURB, LOCAL CONTROL.

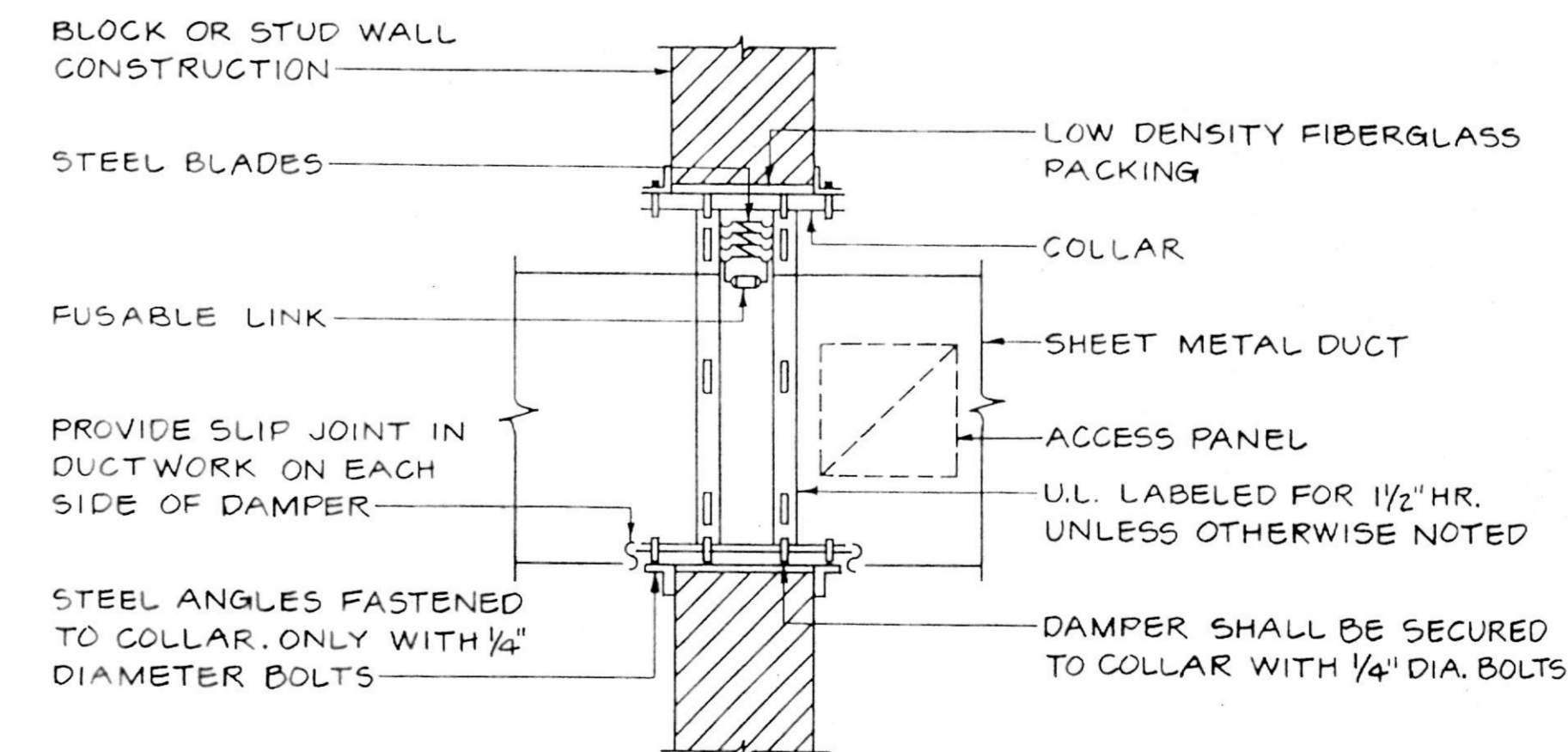
EXHAUST FAN - 2: PENN MODEL ZEPHER 26, 90 CFM, 0.125 IN. S.P., 1/2 H.P., 1050 RPM, 120 VOLTS, 1 PHASE, WITH PENN MODEL 10FR ROOF CAP.

EXHAUST FAN - 3: SAME AS EXHAUST FAN - 2.

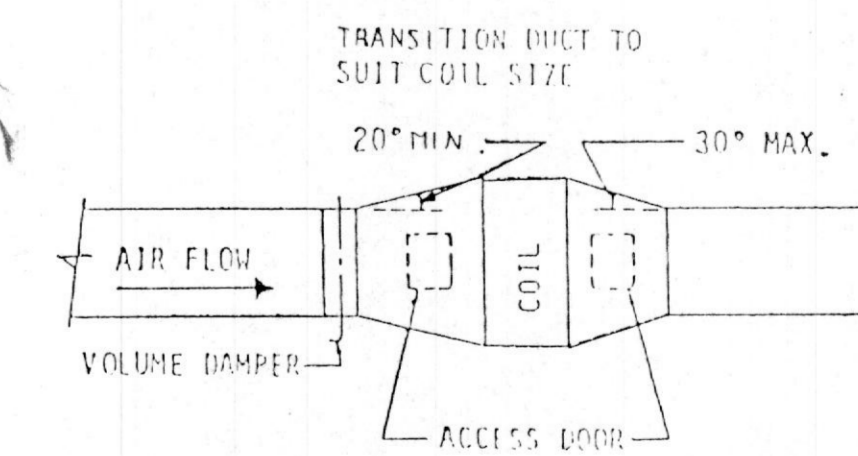
HYDRONIC FIN-TUBE BASEBOARD: 933 BTU/HR/LF AT 170°F AVERAGE WATER TEMPERATURE, PEDESTAL MOUNTED VULCAN FIN-TUBE, WITH MODEL AA1RD, 16 GAUGE, B.E. ENCLOSURE AND 1" C-45"x45"-40-020 ELEMENT, AND #101 CAST ALUMINUM BASE.

RTU-1: AAO GAS-FIRED MODEL RE-24, 6500 CFM, 1275 CFM MIN O.A., 1.5 IN. EX. S.P., 15 HP, 147.0 MBH TOTAL COOLING, 243.0 MBH SENSIBLE, 81.0/65.9 DB/WB EAT, 55.5/54.8 DB/WB LAT, 28.1 MBH TOTAL HEATING OUTPUT, 1370 RPM

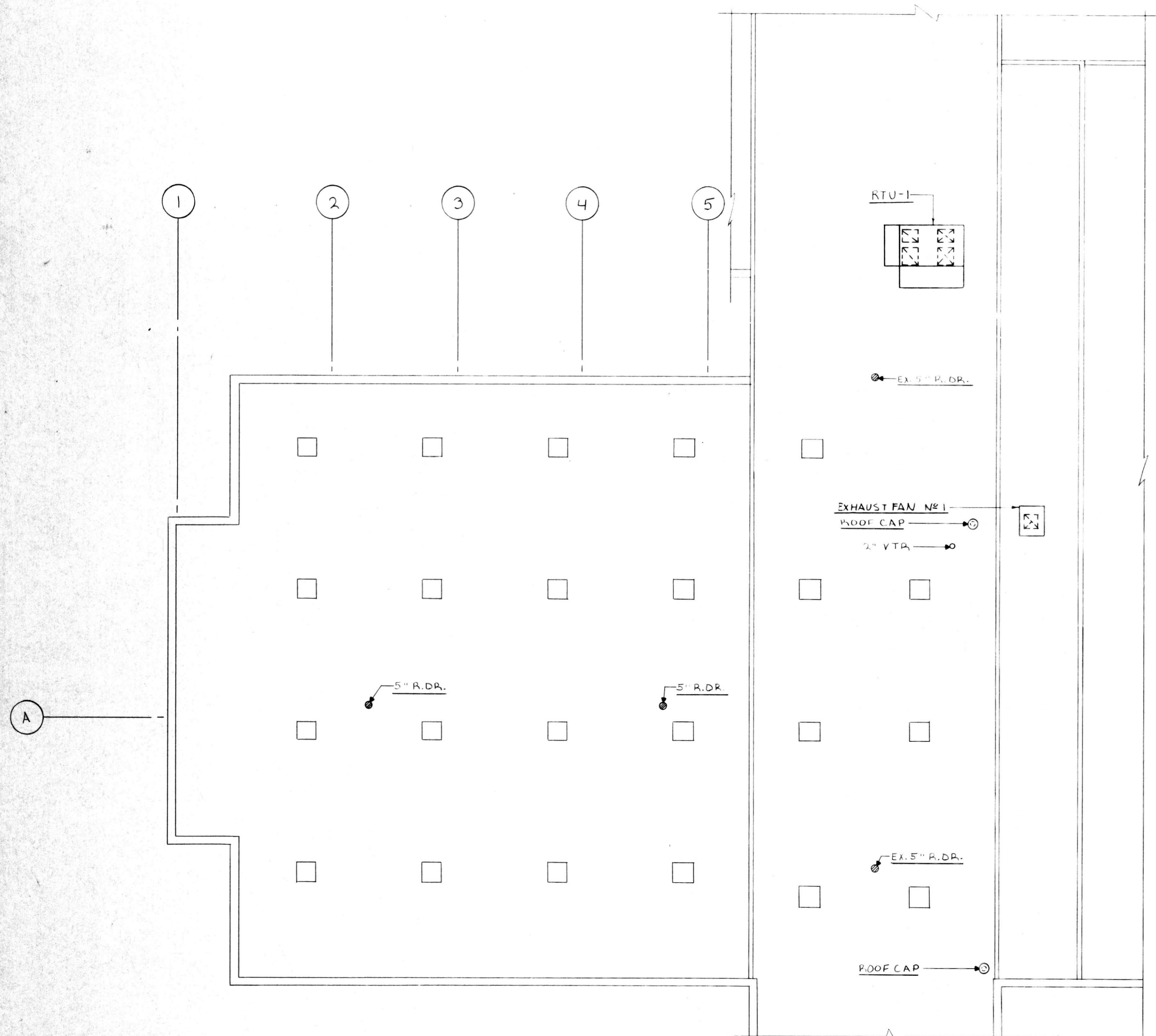
AIR DEVICE SCHEDULE					
NO.	CFM	NECK SIZE	MODULE SIZE	DUTY	TYPE
1	305	10" Ø	24 x 24	SUPPLY	1
2	140	8" Ø	24 x 24	SUPPLY	1
3	260	10" Ø	24 x 24	SUPPLY	1
4	215	8" Ø	24 x 24	SUPPLY	1
5	267	10" Ø	24 x 24	SUPPLY	1
6	40	4" Ø	12 x 12	SUPPLY	1
7	75	4" Ø	12 x 12	SUPPLY	1
8	177	8" Ø	24 x 24	SUPPLY	1
9	185	10" Ø	60 x 6	SUPPLY	2
10	305	10" Ø	12 x 12	SUPPLY	3
11	---	---	24 x 24	RETURN	4
12	565	14 x 14	14 x 14	EXHAUST	5



HORIZONTAL FLOW FIRE DAMPER DETAIL
SCALE: NONE



REHEAT COIL
NO SCALE

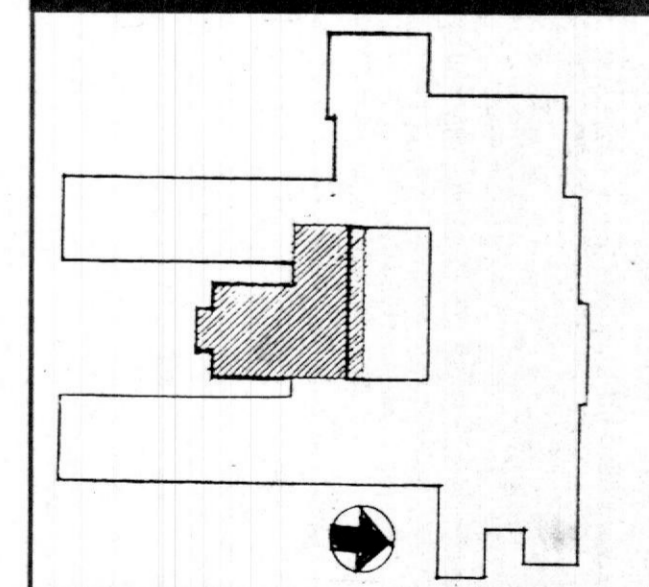


MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"



810 Light Street Baltimore Maryland 21230
Kibart, Inc.
CONSULTING ENGINEERS
901 Dulaney Valley Rd. Towson Md 21204

NO.	DATE	DESCRIPTION



Additions and Renovations to
NOTRE DAME PREPARATORY SCHOOL
Towson, Maryland

LIBRARY ROOF PLAN, SCHEDULES & DETAILS