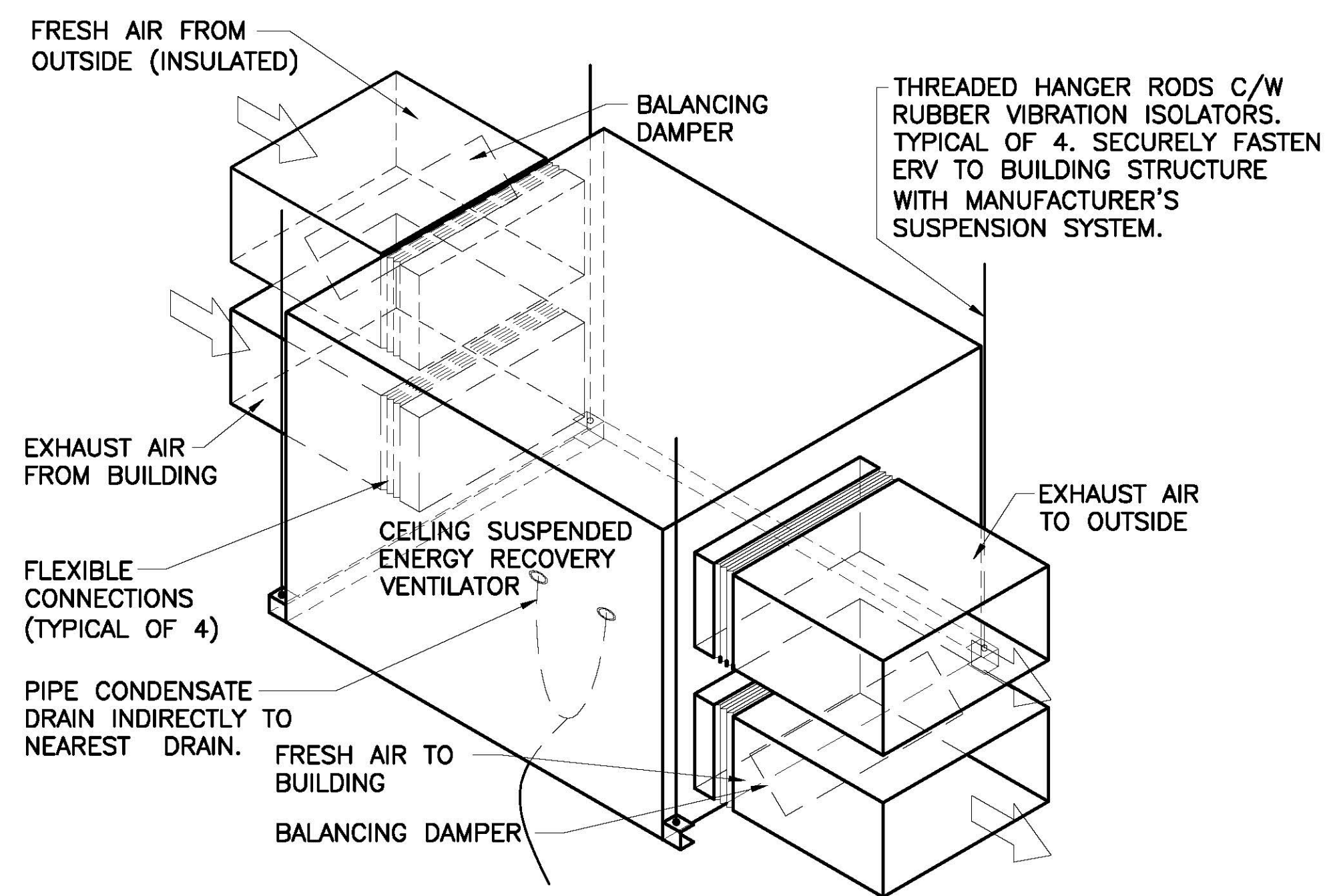


LEGEND	
CABINET EXHAUST FAN*	EF-#
ISOLATION ROOM EXHAUST FAN*	EF-#
SA DIFFUSER**	S# CFM SIZE
EA OR RA REGISTER**	R# CFM SIZE
DG OR TA GRILLE**	R# CFM SIZE
EA OR RA DUCT	
SUPPLY AIR DUCT	
UNINSULATED DUCTWORK	
DUCT CONTINUES TO LETTER	A A
INSULATED DUCTWORK	
TURNING VANES	TV
INSULATED FLEXIBLE DUCT CONNECTION	
FLEXIBLE DUCT CONNECTION	
1" ACOUSTICALLY INSULATED DUCT	
ELECTRIC DUCT HEATER WITH SCR CONTROL*	DH-#
AUTOMATIC BACKDRAFT DAMPER	ABD
BALANCING DAMPER	BD
LOW VOLTAGE MOTORIZED DAMPER	DM
AIR FLOW DIRECTION	→
ERV ELECT. CONTROL	ERV
HEAT PUMP ELECT. CONTROL	HP
CABINET FAN MOTION SENSOR	MS
FAN SWITCH	\$

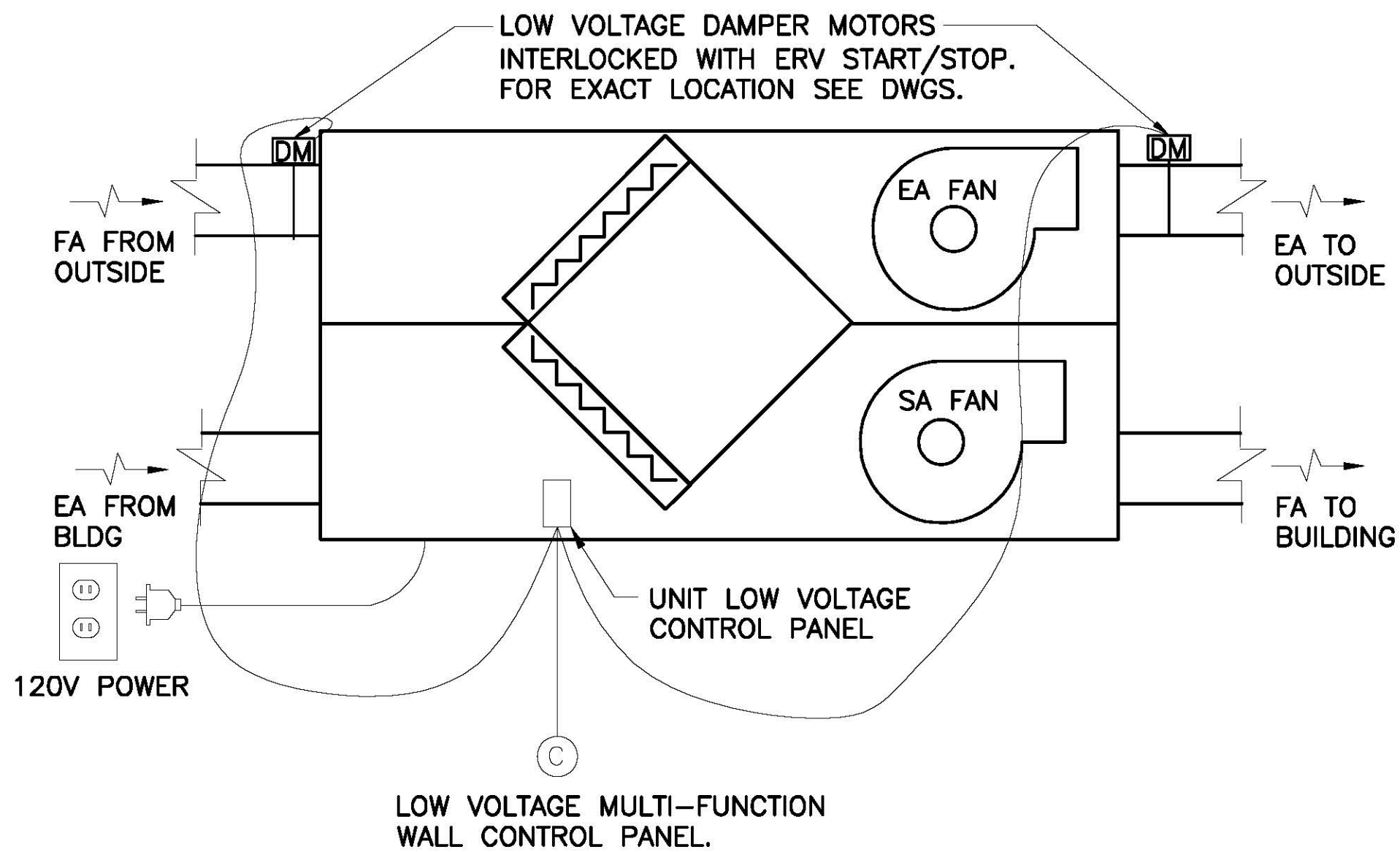
*# INDICATES TAG ON SCHEDULE.
 **# INDICATES TAG ON SCHEDULE, CFM INDICATES AIR FLOW IN CUBIC FEET PER MINUTE, BOTTOM NUMBER INDICATES REGISTER OR GRILLE NECK SIZE NECK SIZE IN INCHES.

- ABBREVIATIONS**
- RA RETURN AIR
 - SA SUPPLY AIR
 - OA OUTSIDE AIR
 - EA EXHAUST AIR
 - TG TRANSFER GRILLE
 - TV TURNING VANE
 - DG DOOR GRILLE
 - EG EAVE GRILLE
 - UCD UNDERCUT DOOR 1/2"
 - ERV ENERGY RECOVERY VENTILATOR
 - HP HEAT PUMP

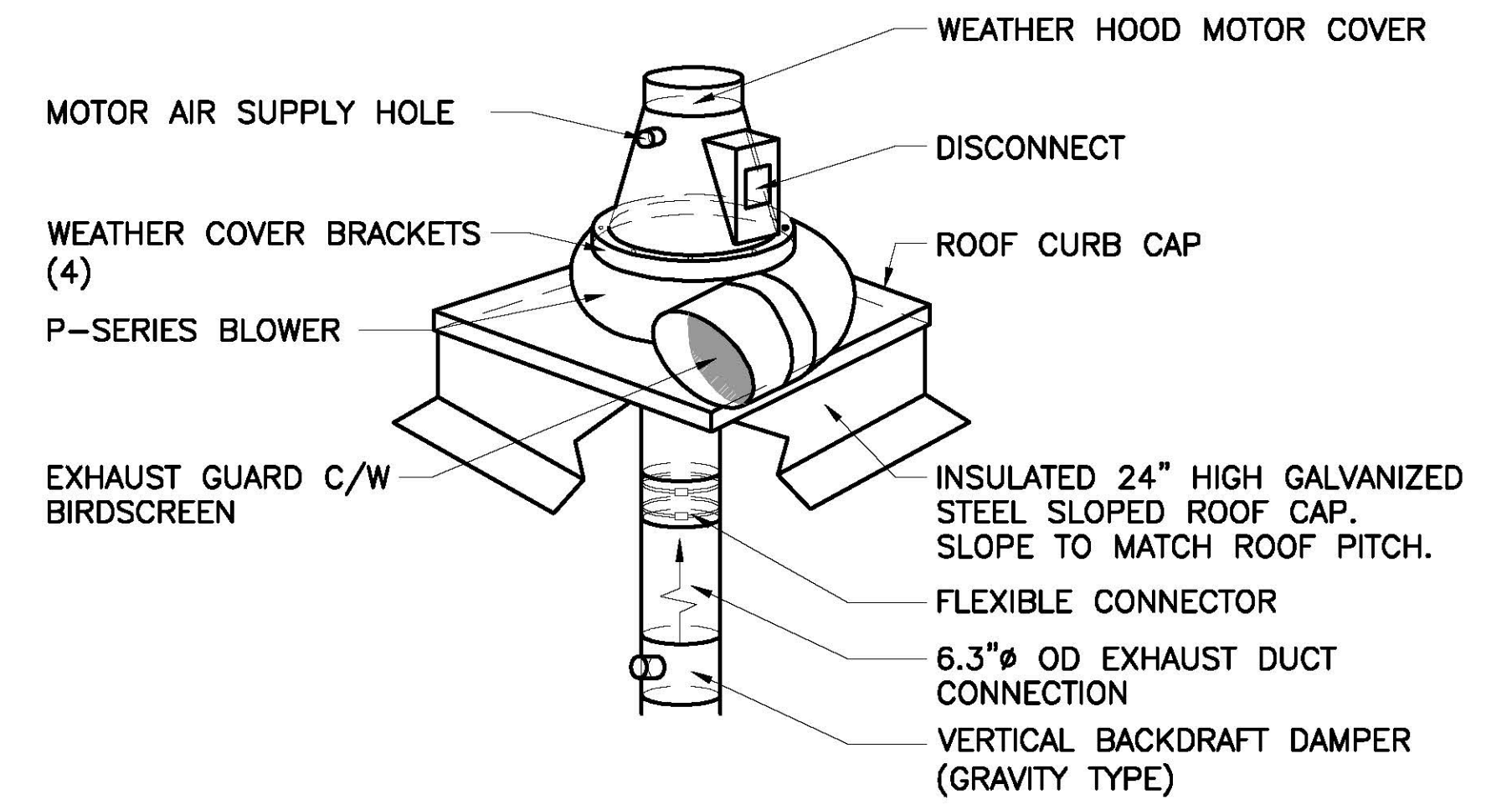
VAC FLOOR PLAN
 SCALE: 1/4"=1'-0"



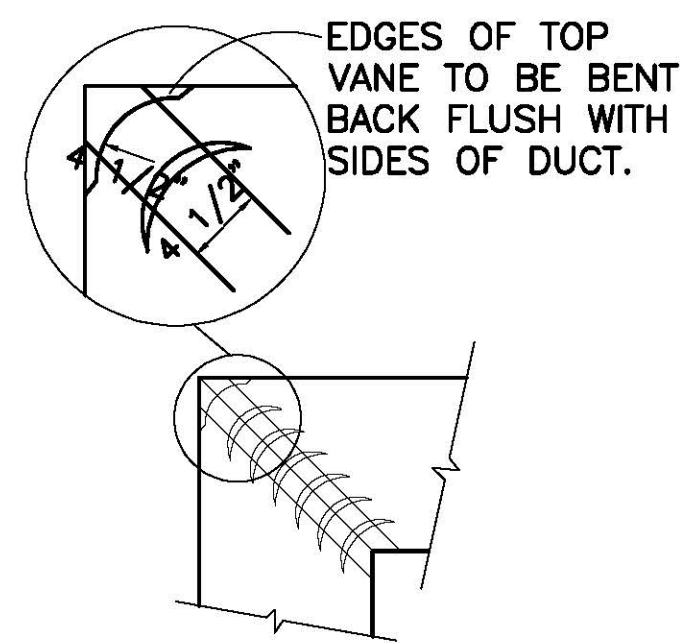
TYPICAL ERV INSTALLATION 1
NTS MV-2



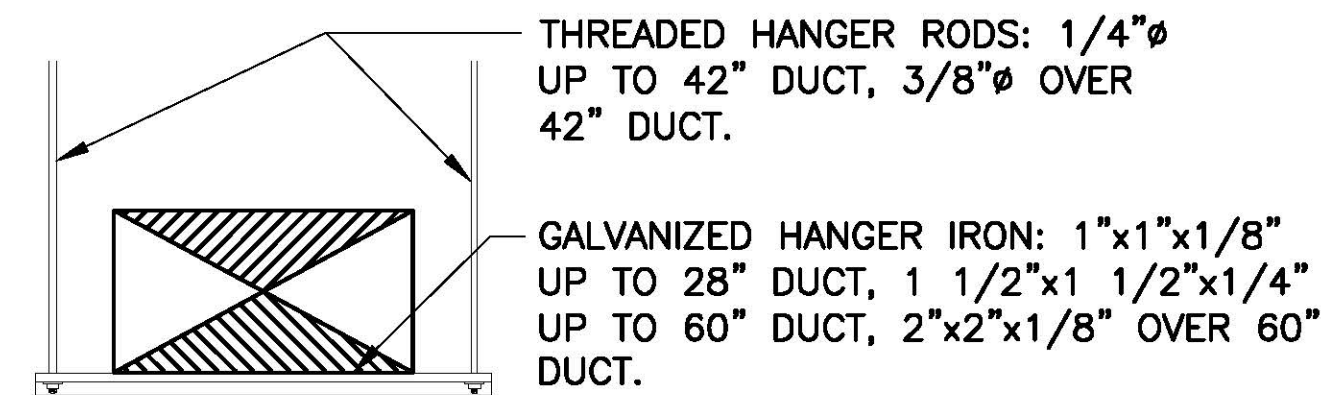
TYPICAL ERV WIRING 2
NTS MV-2



TYPICAL ISOLATION ROOM EXHAUST FAN 3
NTS MV-2

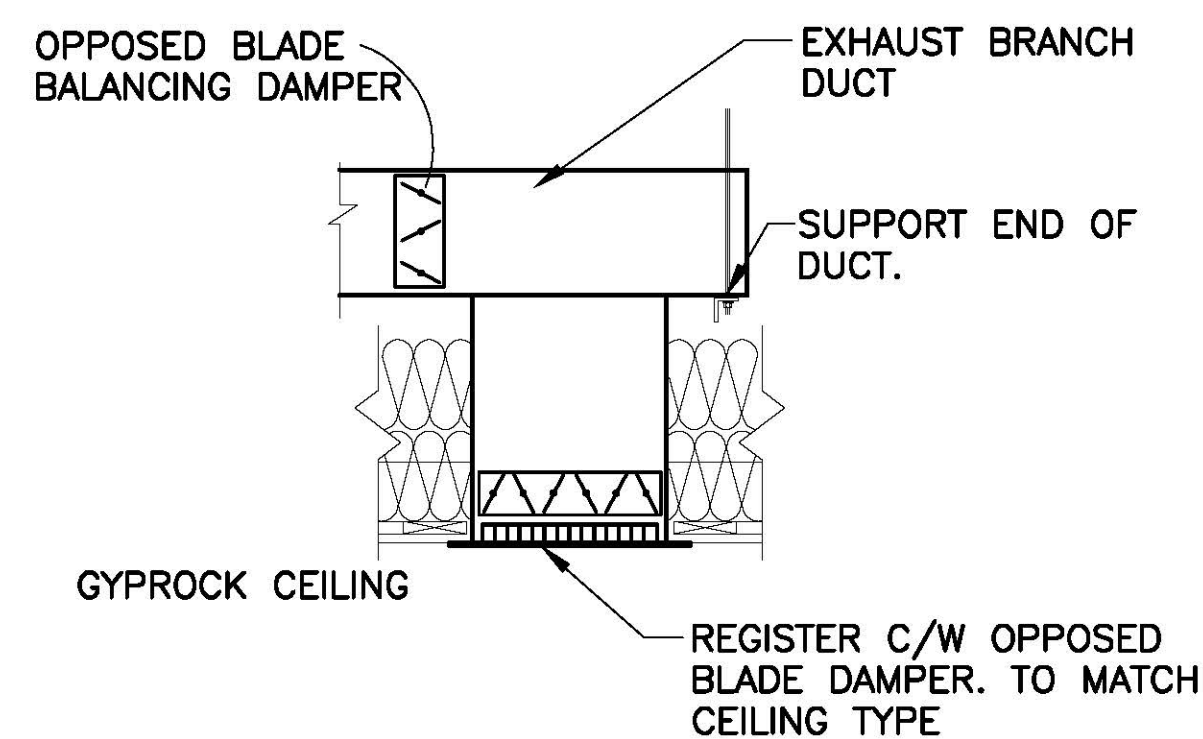


TYPICAL MITRE ELBOW WITH TURNING VANES 4
NTS MV-2

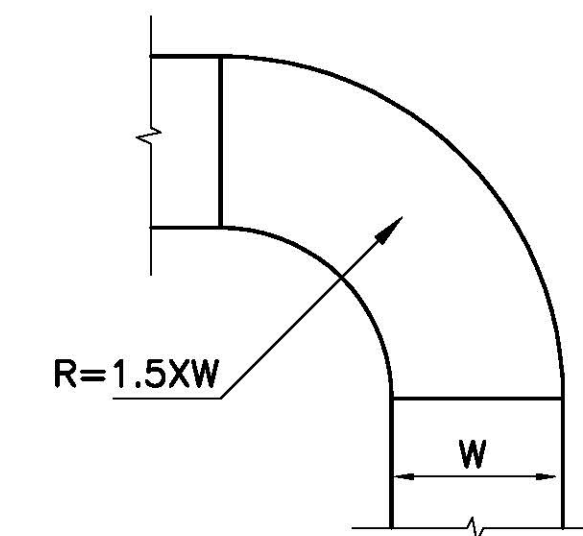


- NOTE:**
1. INSTALL HANGERS AND SUPPORTS IN STRICT ACCORDANCE WITH SMACNA REQUIREMENTS. PROVIDE ADDITIONAL SUPPORT TO FASTEN HANGER AS REQUIRED.
 2. SUPPORT DUCT INDEPENDENTLY OF T-BAR CEILING AND PRE-ENGINEERED ROOF TRUSSES. DRILLING OF PRE-ENGINEERED ROOF TRUSSES STRICTLY PROHIBITED.
 3. COORDINATE EXACT REQUIREMENTS FOR ATTIC TRUSS SUPPORTS AND STRAP HANGER SUPPORTS TO SMACNA REQUIREMENTS.

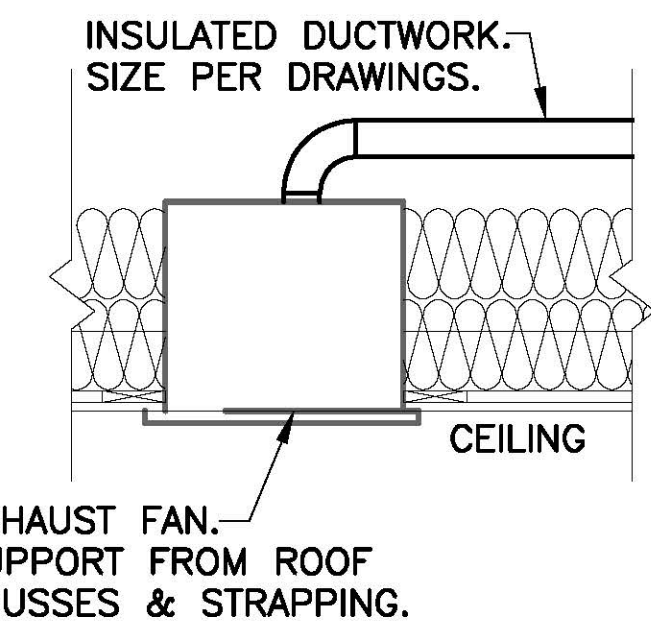
TYPICAL DUCT MOUNTING 5
NTS MV-2



TYPICAL DUCTED EXHAUST REGISTER 6
NTS MV-2

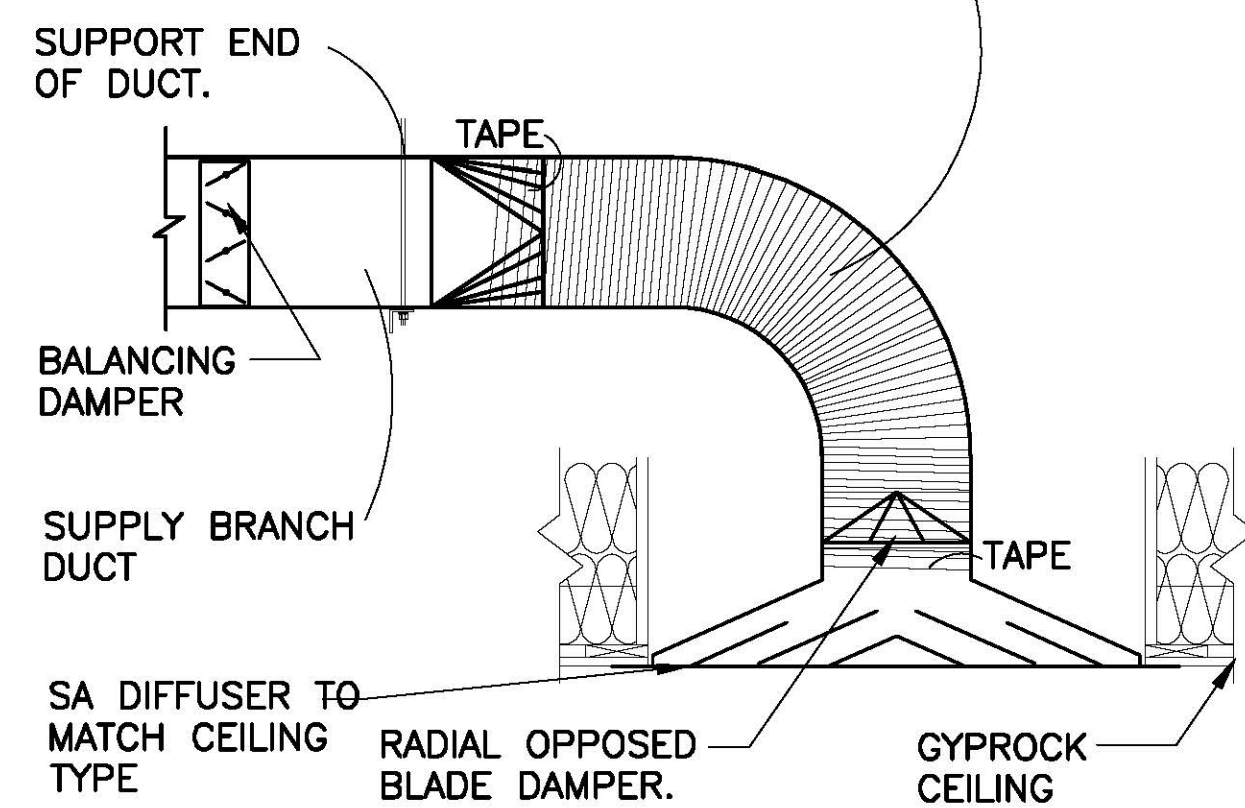


TYPICAL 90° ELBOW 7
NTS MV-2

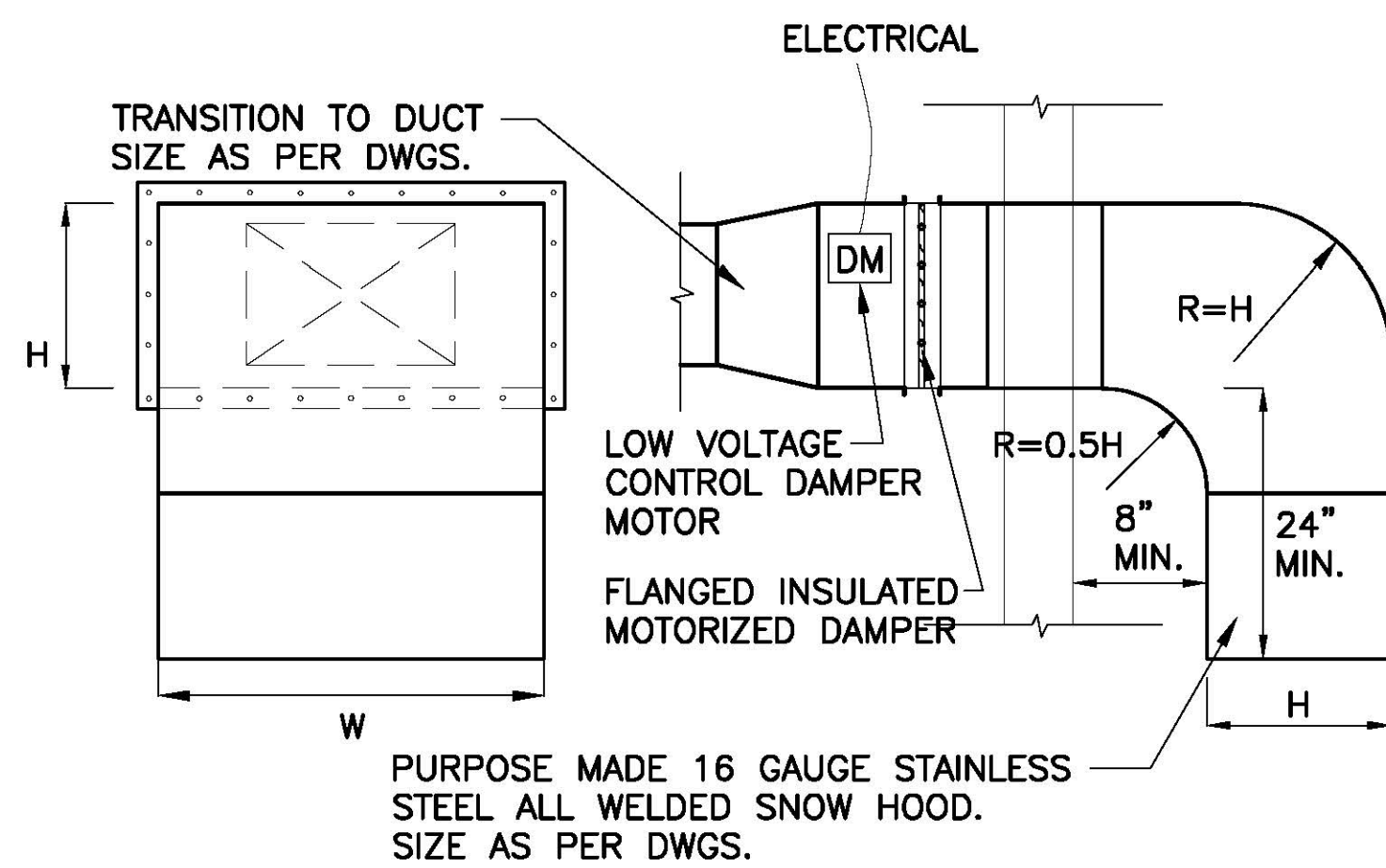


TYPICAL CABINET FAN MOUNTING 8
NTS MV-2

APPROVED INSULATED FLEXIBLE DUCTWORK THE FULL SIZE OF DIFFUSER NECK. SUPPORT FLEXIBLE DUCTWORK TO PREVENT KICKING.

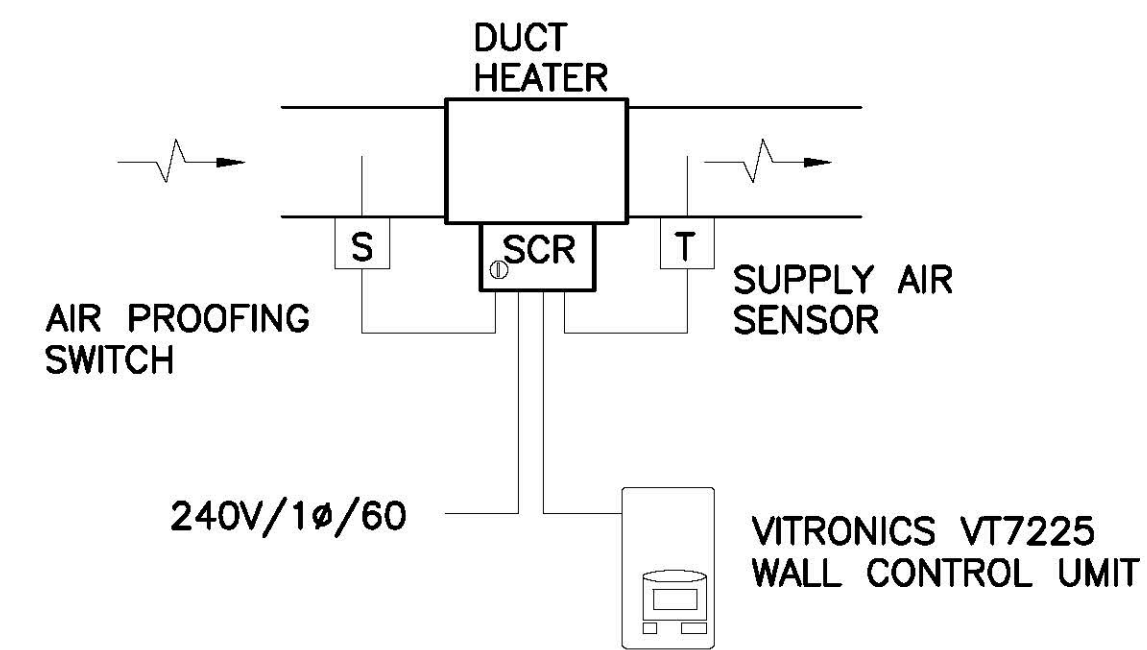


TYPICAL CEILING MOUNTED SUPPLY DIFFUSER 9
NTS MV-2

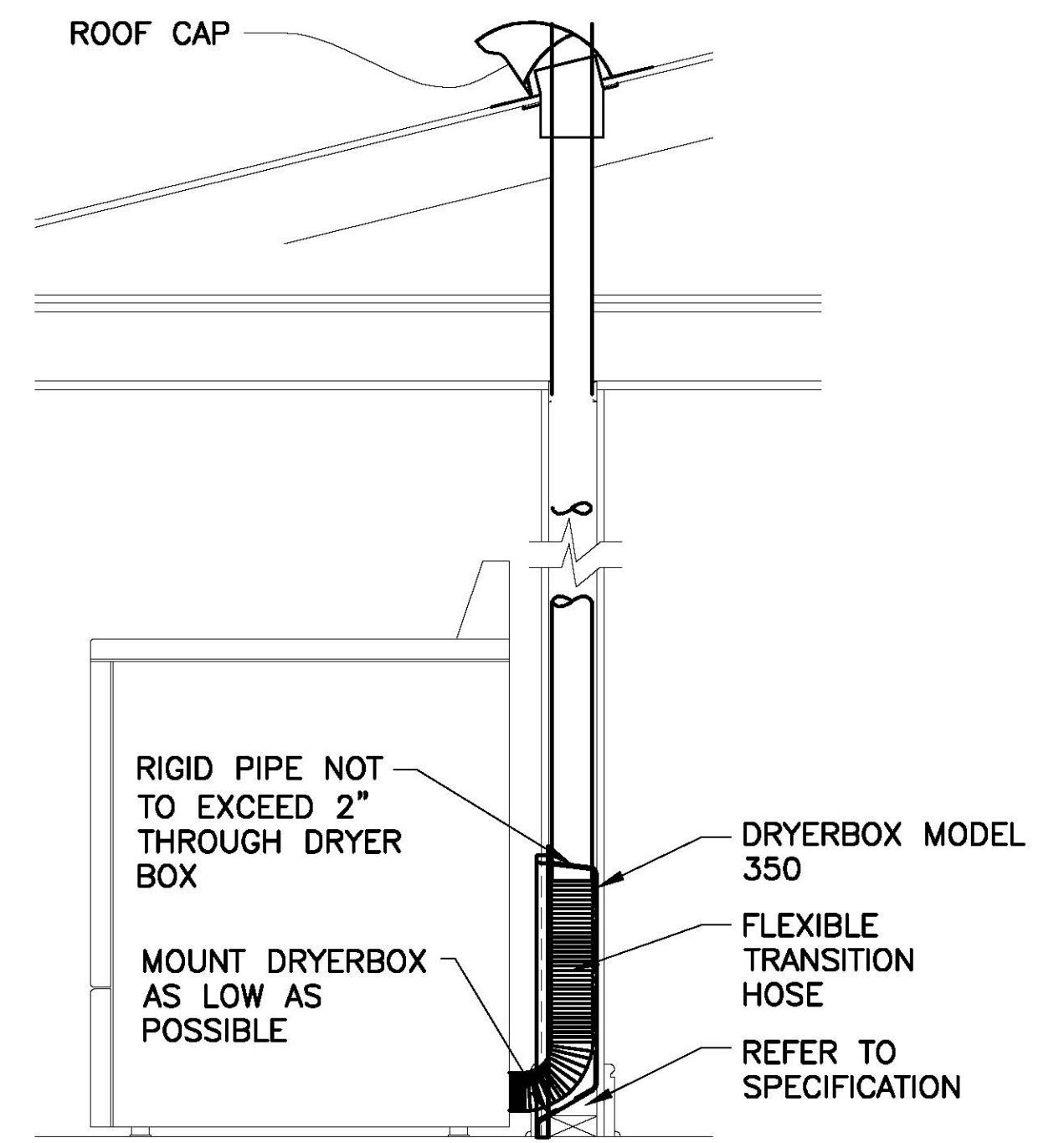


- NOTE:**
1. REFER TO FLOOR PLANS FOR WIDTH AND HEIGHT.
 2. FLASH & SEAL TO PROVIDE A WEATHERTIGHT CONSTRUCTION.

TYPICAL INTAKE HOOD 10
NTS MV-2



TYPICAL DUCT HEATER CONTROL 11
NTS MV-2



DRYER VENT SYSTEM INSTALLATION 12
NTS MV-2

FAN SCHEDULE

TAG	TYPE	FUNCTION	LOCATION	MANUFACTURER AND MODEL NO.	AIR FLOW (CFM)	E.S.P. (IN WC)	FAN RPM	SONES	MOTOR		ACCESSORIES / REMARKS
									HP* (WATTS)	VOLT/Ø/HZ	
EF-1	CABINET EXHAUST FAN	WASHROOM EXHAUST	WASHROOM 105 CEILING	PENNBARRY ZRB6-CT140	81	3/8"	665	2.0	1/28(26)	120/1/60	DIRECT DRIVE, TOTALLY ENCLOSED EC MOTOR, UL/ULC LISTED, HOUSING BRACKETS, WALL MOUNT MOTION SENSOR, RUBBER VIBRATION ISOLATORS, MOTOR DISCONNECT AND THERMAL OVERLOAD PROTECTION. CONTROLLED BY MOTION SENSOR.
EF-2	CABINET EXHAUST FAN	WASHROOM EXHAUST	WASHROOM 106 CEILING	PENNBARRY ZRB6-CT140	81	3/8"	665	2.0	1/28(26)	120/1/60	DIRECT DRIVE, TOTALLY ENCLOSED EC MOTOR, UL/ULC LISTED, HOUSING BRACKETS, WALL MOUNT MOTION SENSOR, RUBBER VIBRATION ISOLATORS, MOTOR DISCONNECT AND THERMAL OVERLOAD PROTECTION. CONTROLLED BY MOTION SENSOR.
EF-3	CABINET EXHAUST FAN	WASHROOM EXHAUST	ACC. WR 112 CEILING	PENNBARRY ZRB6-CT140	81	3/8"	665	2.0	1/28(26)	120/1/60	DIRECT DRIVE, TOTALLY ENCLOSED EC MOTOR, UL/ULC LISTED, HOUSING BRACKETS, WALL MOUNT MOTION SENSOR, RUBBER VIBRATION ISOLATORS, MOTOR DISCONNECT AND THERMAL OVERLOAD PROTECTION. CONTROLLED BY MOTION SENSOR.
EF-4	CABINET EXHAUST FAN	JANITOR RM EXHAUST	JANITOR 128 CEILING	PENNBARRY ZRB6-CT120	58	3/8"	595	2.0	1/28(26)	120/1/60	DIRECT DRIVE, TOTALLY ENCLOSED EC MOTOR, UL/ULC LISTED, HOUSING BRACKETS, RUBBER VIBRATION ISOLATORS, MOTOR DISCONNECT AND THERMAL OVERLOAD PROTECTION. CONTROLLED BY MANUAL SWITCH.
EF-5	JET ROOFTOP EXHAUST FAN	ISOLATION RM EXHAUST	ROOF ABOVE WR 105	PLASTEC JET20	300	5/8"	1140	64 BD	1/4(186)	120/1/60	C/W WEATHER HOOD/MOTOR COVER, WEATHER COVER BRACKETS, MOTOR DISCONNECT, UL/ULC LISTED, MOTOR AIR SUPPLY, P SERIES BLOWER, SLOPPED INSULATED GALVANIZED STEEL ROOF CURB, ROOF CURB CAP, EXHAUST GUARD/ BIRD SCREEN, FLEXIBLE CONNECTOR AND VERTICAL BACKDRAFT DAMPER (GRAVITY TYPE). CONTROLLED BY FAN TOGGLE SWITCH.

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	LOCATED	VENMAR MODEL	APPLICATION	SUPPLY SIDE AIR FLOW AND DUCT CONNECTION		RETURN SIDE AIR FLOW AND DUCT CONNECTION		ELECTRICAL						SPECIFICATIONS		
				AIR FLOW CFM	EXT. S.P. WC	DUCT WXH (INCH)	AIR FLOW CFM	EXT. S.P. WC	DUCT WXH (INCH)	V-PH-HZ		FAN MOTORS			POWER	
										HP	HP	MCA (AMPS)	MOP (AMPS)			
ERV-1	STORAGE/MECH ELECT 109	12LC	VENTILATION AIR	622	0.8	20X8	815	0.6	20X8	120/1/60	1/3	1/3	14.3	20	-CROSSFLOW ENERGY RECOVERY CORE: DIMENSIONS: 12" X 12" X 13.125"; EXCHANGE SURFACE: 200 FT²; WEIGHT: ERV POLYMERIZED PAPER: 11.2 LB; QUANTITY 3; ERV POLYMERISED PAPER MATERIAL: 5 YEAR WARRANTY. -COMPLIES WITH THE CSA C22.2, NO. 113 STANDARD APPLICABLE TO VENTILATORS. -COMPLIES WITH UL STANDARD 1812 - DUCTED HEAT RECOVERY VENTILATORS AND ENERGY RECOVERY VENTILATORS. -BUILT-IN ELECTRONIC MAIN CONTROL CIRCUIT BOARD, VENTA NO. 40310. -STANDAND FINISH. -2 YEAR PARTS WARRANTY. -EXHAUST ONLY DEFROST. -HOUSING: 20 GA. PRE-PAINTED STEEL. -MOUNTING: REINFORCED RUBBER STRAPS. -DRAINS: 3/4" THREADED FITTINGS. -6 RETICULATED WASHABLE FOAM FILTERS (20 PPI). -MOUNTING: REINFORCED RUBBER STRAPS. -INSULATION: 1" FOIL FACED AND "ACOUSTIC FIBERGLASS WOOL. -SUPPLY AND EXHAUST BLOWER MOTORS: TYPE: 3 SPEED PSC MOTORS WITH SEALED SLEEVED BEARINGS. 1625 RPM, DIRECT DRIVE, 1/3 HP, CENTRIFUGAL BLOWER 7-1/8" X 6". -LOW, MEDIUM AND HIGH FAN SPEED CONTROL. -ALTERNATE EQUIPMENT: VÄNEE	

DUCT HEATER SCHEDULE

TAG	SERVICE	AREA SERVED	LOCATED	DUCT SIZE	AIR FLOW CFM	SIZE kW	STAGES	V/PH/HZ	SPECIFICATIONS
DH-1	ERV-1 DEFROST HEAT	CORRIDORS OF CAT ROOMS AND DOG KENNELS	STORAGE/MECHANICAL/ELECTRICAL 119	20"x12"	622	3.5	1	240/1/60	PROVIDE DUCT HEATER C/W SCR CONTROLLER, AIR PROOFING SWITCH, HIGH LIMIT, BUILT-IN DISCONNECT AND CONTROL TRANSFORMER. COORDINATE CONTROLS WITH MECHANICAL CONTRACTOR.
DH-2	ERV-1 DEFROST HEAT	CORRIDORS OF CAT ROOMS AND DOG KENNELS	STORAGE/MECHANICAL/ELECTRICAL 119	20"x8"	622	5	1	240/1/60	PROVIDE DUCT HEATER C/W SCR CONTROLLER, AIR PROOFING SWITCH, HIGH LIMIT, BUILT-IN DISCONNECT AND CONTROL TRANSFORMER. COORDINATE CONTROLS WITH MECHANICAL CONTRACTOR.

DIFFUSER AND REGISTER SCHEDULE

DESCRIPTION	TAG	FACE SIZE	MODULE SIZE	FINISH	MANUF. MODEL NO.	DUCTED	MOUNTING SURFACE	REMARKS
SA DIFFUSER	S1	24X24	24X24	WHITE	PRICE ASCDA	YES	GYPROCK	3 CONE, ADJUSTABLE ALUMINUM SQUARE LOUVERED DIFFUSER C/W RADIAL OPPOSED BLADE DAMPER AND PLASTER MOUNTING FRAME.
SA DIFFUSER	S2	12X12	-	WHITE	PRICE ASCDA	YES	GYPROCK	3 CONE, ADJUSTABLE ALUMINUM SQUARE LOUVERED DIFFUSER C/W RADIAL OPPOSED BLADE DAMPER AND PLASTER MOUNTING FRAME.
EA REGISTER	R1	AS NOTED	-	WHITE	PRICE 630DAL	YES	GYPROCK	ALUMINUM FIXED LOUVERED REGISTER C/W OPPOSED BLADE DAMPER, 3/4" FIXED BLADE SPACING, 45 DEGREE ANGLE, FRONT BLADES PARALLEL TO LONG DIMENSION. PLASTER MOUNTING FRAME.
DOOR GRILLE	R2	20X16	-	WHITE	PRICE STG	NO	DOOR	STEEL DOOR GRILLE WITH FLAT BORDER BOTH SIDES.
TRANSFER GRILLE	R3	24X22	-	WHITE	ATG2	NO	GYPROCK	LIGHT PROOF STEEL WALL GRILLE. WITH FLAT BORDER