

RADIANT CEILING PANEL PERFORMANCE SCHEDULE										
TAG	FLOW RATE (GPM)	HEATING OUTPUT (MBH)	EWT (°F)	ROOM TEMP (°F)	TUBES	WIDTH (IN)	LENGTH (IN)	VALVE	BASIS OF DESIGN - RITLING	
									SERVICE	MODEL
RCP-1	20	035	1600	700	2	12"	48"	N/A	HWS/R	LINEAR RADIANT

UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.

GAS BOILER PERFORMANCE SCHEDULE												
TAG	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	MIN. HTG CAPACITY (MBH)	FUEL	AFUE (%)	DOM. FLOW @ 15' RISE (GPM)	INTAKE/VENT DIA (IN)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - RINNAI	
								HP	WATTS	V/PH/Hz	SERVICE	MODEL
B-1	100	100	760	NG	96.1	32	3" x 3"	-	145	120/1/60	HWS/R	E10C

UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE										
TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W.P.D. (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN - SYMONS			
							SERVICE	ARRANGEMENT	MODEL	
TMV-1	40	1/2"	1/2"	50	110°F	Y	DOM HW	WALL		5-120-W

UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.

WALL HEATER PERFORMANCE SCHEDULE										
TAG	OUTPUT (MBH)	FLOW RATE (GPM)	W.P.D. (FT/UG)	AIRFLOW (CFM)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN - BEACON MORRIS			
					AMPS	V/PH/Hz	VALVE	SERVICE	MODEL	
KSH-1	3.5	2.0	1.5	115	15	120/1/60	N/A	HEAT		K42
KSH-2	7.1	2.0	1.5	115	15	120/1/60	N/A	HEAT		K84
WH-1	7.1	2.0	1.5	115	15	120/1/60	N/A	HEAT		W84
WH-2	3.5	2.0	1.5	115	15	120/1/60	N/A	HEAT		W42
WH-3	10.8	2.0	1.5	115	15	120/1/60	N/A	HEAT		W120
WH-4	3.5	2.0	1.5	115	15	120/1/60	N/A	HEAT		W42 (SURFACE MOUNT)

UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.

INSTALL WALL HEATERS WITH BOTTOM OF UNIT 8" AFF

PLUMBING FIXTURE CONNECTION SCHEDULE					
TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-1A	ADA FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-2	COUNTERTOP LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-2A	ADA COUNTERTOP LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-2B	ADA WALL HUNG LAV	1-1/2"	1-1/2"	1/2"	1/2"
P-2C	WALL HUNG LAV	1-1/2"	1-1/2"	1/2"	1/2"
P-3	TUB/SHOWER	2"	2"	1/2"	1/2"
P-3A	ADA TUB/SHOWER	2"	2"	1/2"	1/2"
P-4	SINGLE BOUL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-4A	ADA SINGLE BOUL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-5	WASHING MACHINE HOOK-UP	2"	1-1/2"	1/2"	1/2"
FD-1	FLOOR DRAIN (W/ TRAP PRIMER)	2"	1-1/2"	1/2"	-
FFHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2". PROVIDE TRAP PRIMERS ON FLOOR DRAINS, CONNECT TO NEAREST FIXTURE. UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS. ** PROVIDE DISHWASHER CONNECTIONS, PIPING AND CONNECT TO DISHWASHER

FAN PERFORMANCE SCHEDULE													
TAG	AIRFLOW (CFM)	T.S.P. (INWG)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN - PANASONIC (P), BROAN (B)			
						HP	BHP	WATTS	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
FL-1	70	025	15	-	DIRECT	-	-	840	0.7	120/1/60	BATHROOM	CEILING	T44FL(B)
EF-1	40-82	025	0.3	-	DIRECT	-	-	220	0.2	120/1/60	BATHROOM	CEILING	FV-08VK(P)
EF-2	94	025	0.8	-	DIRECT	-	-	310	0.3	120/1/60	BATHROOM	CEILING	FV-11VQ3(P)

EF-1 - CONTINUOUS OPERATION AT 40CFM AND SWITCHED OPERATION AT 82CFM WITH A 5-MINUTE DELAY TIMER PRIOR TO REVERTING BACK TO THE LOWER RATE. EF-2 - PROVIDE WITH A 5-MINUTE DELAY TIMER TO KEEP THE FAN OPERATING AFTER SWITCHED OFF. UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.

PUMP PERFORMANCE SCHEDULE													
TAG	FLOW RATE (GPM)	HEAD (FT/UG)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN - TACO			
						HP	BHP	WATTS	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
CP-1	20	15.0	-	3250	-	1/40	-	-	0.52	120/1/60	ZONE 1	INLINE CART	008
CP-2	20	15.0	-	3250	-	1/40	-	-	0.52	120/1/60	ZONE 2	INLINE CART	008
CP-3	20	15.0	-	3250	-	1/40	-	-	0.52	120/1/60	ZONE 3	INLINE CART	008
CP-4	20	15.0	-	3250	-	1/40	-	-	0.52	120/1/60	ATTIC MECH RM	INLINE CART	008

UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS. ** ADD ALTERNATE #4

BFP PERFORMANCE SCHEDULE										
TAG	SIZE	FLOW RATE (GPM)	W.P.D. (PSI)	MAX. WORK'G. TEMPERATURE (DEGREES F)	MAX. WORK'G. PRESSURE (PSI)	TESTABLE (Y) OR (N)	BASIS OF DESIGN - WATTS			
							BODY STYLE	SERVICE	MODEL	
BFP-1	3/4"	200	130	1800	115	Y	RPZ	WATER ENTRANCE	951	
BFP-2	1/2"	100	150	1800	115	Y	RPZ	BOILER FILL	951	

UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS. UNITS MUST BE SUITABLE FOR USE IN A VERTICAL CONFIGURATION.

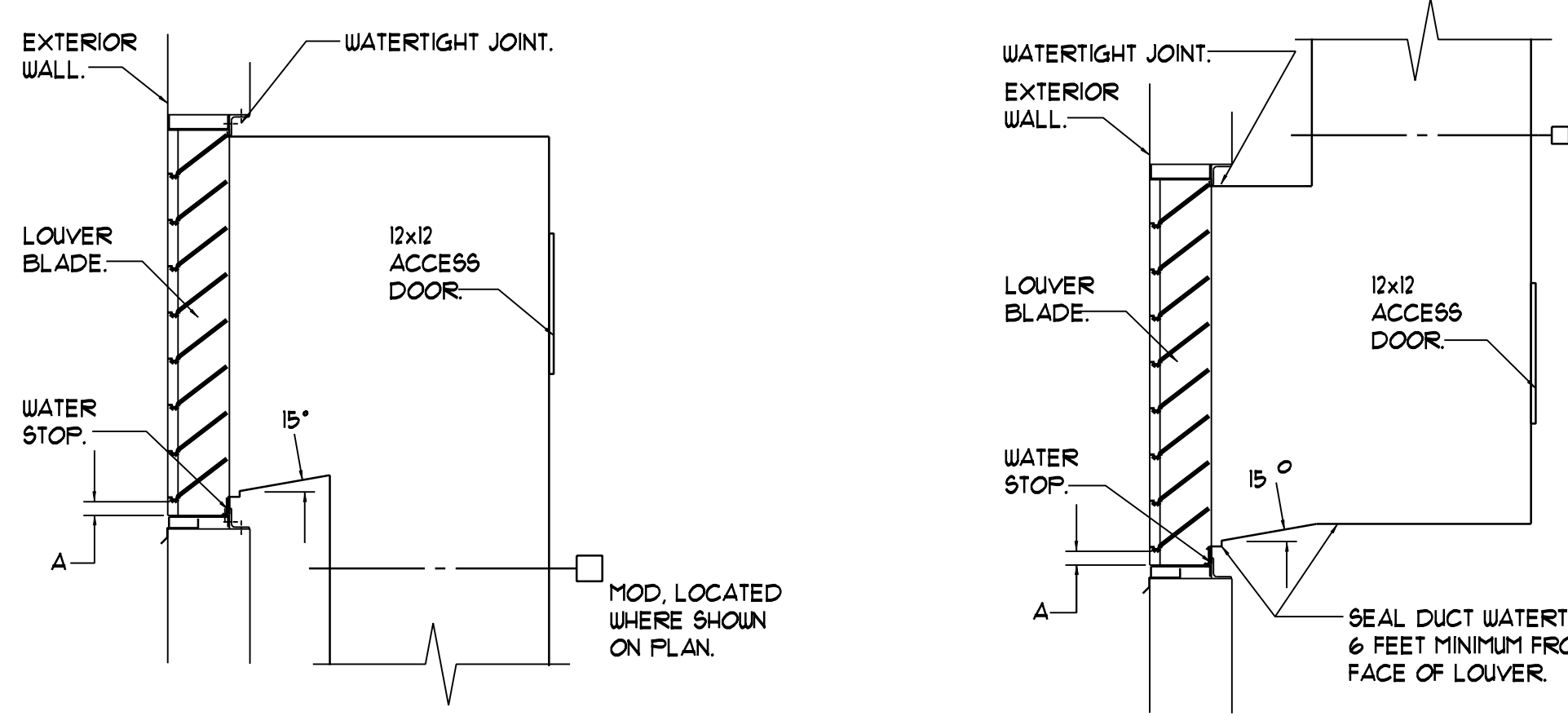
LOUVER PERFORMANCE SCHEDULE										
TAG	AIR FLOW (CFM)	SP LOSS (INWG)	AIR VEL. (FPM)	SIZE (INCHES) (W x H)	FREE AREA (SQFT)	DRAINABLE (Y) OR (N)	BLADE ANGLE & FRAME DEPTH	BASIS OF DESIGN - RUSKIN		
								SERVICE	MODEL	
L-1	210	0.01	208.7	24x12	0.68	Y	35°, 6"	EF EXHAUST		ELF6315DX
L-2	140	0.01	205.8	24x12	0.68	Y	35°, 6"	EF EXHAUST		ELF6315DX
L-3	140	0.01	205.8	24x12	0.68	Y	35°, 6"	EF EXHAUST		ELF6315DX

EXPANSION TANK PERFORMANCE SCHEDULE										
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. REQ'D. ACCEPT. VOL. (GAL)	MAX. WORK'G. TEMPERATURE (DEG F)	MAX. WORK'G. PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN - AMTROL			
							MOUNTING	SERVICE	MODEL	
ET-1	7.6	2.5	2.3	240	100	18	INLINE	HWS/R		III-P/1-1/4

ET-1 - FILL-TROL PACKAGED EXPANSION TANK WITH AIR SEPARATOR AND VENT. UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.

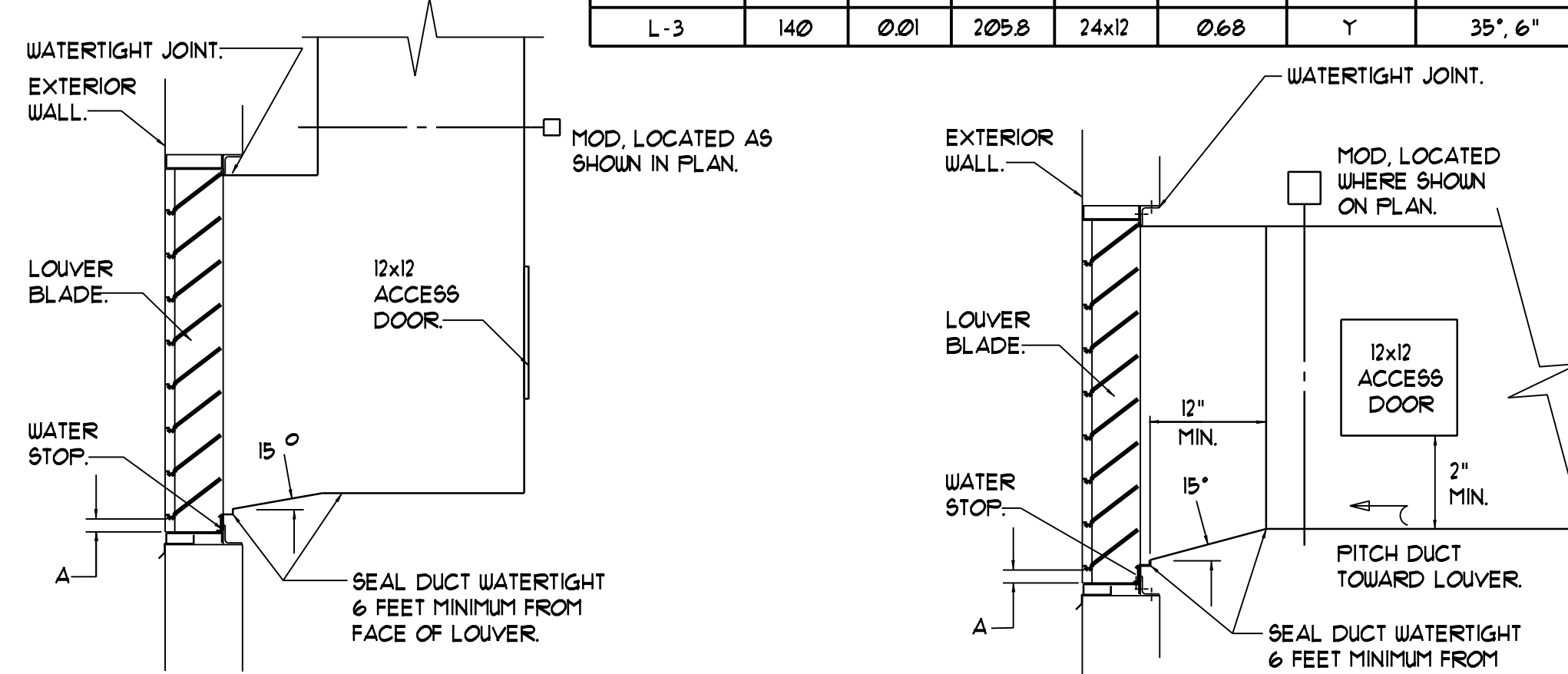
FINTUBE PERFORMANCE SCHEDULE										
TAG	OUTPUT (MBH/FT)	FLOW RATE (GPM)	MOUNT'G. HEIGHT (IN)	ENCLOSURE HEIGHT (IN)	ELEMENT LENGTH (FT)	ENCLOSURE LENGTH (FT)	BASIS OF DESIGN - STERLING			
							TUBE SIZE (IN)	FINS/FOOT	VALVE TAG	MODEL
FTR-1	0.56	2.0	0	9-13/16"	-	-	3/4"	55	N/A	SENIOR

** ELEMENT LENGTH SHALL BE AS REQUIRED TO MEET LOAD INDICATED ON DRAWINGS. ** ENCLOSURE LENGTH SHALL BE ELEMENT LENGTH PLUS 12" OR WALL TO WALL. UNITS SCHEDULED MAY REPRESENT MULTIPLE UNITS, COORDINATE WITH DRAWINGS.



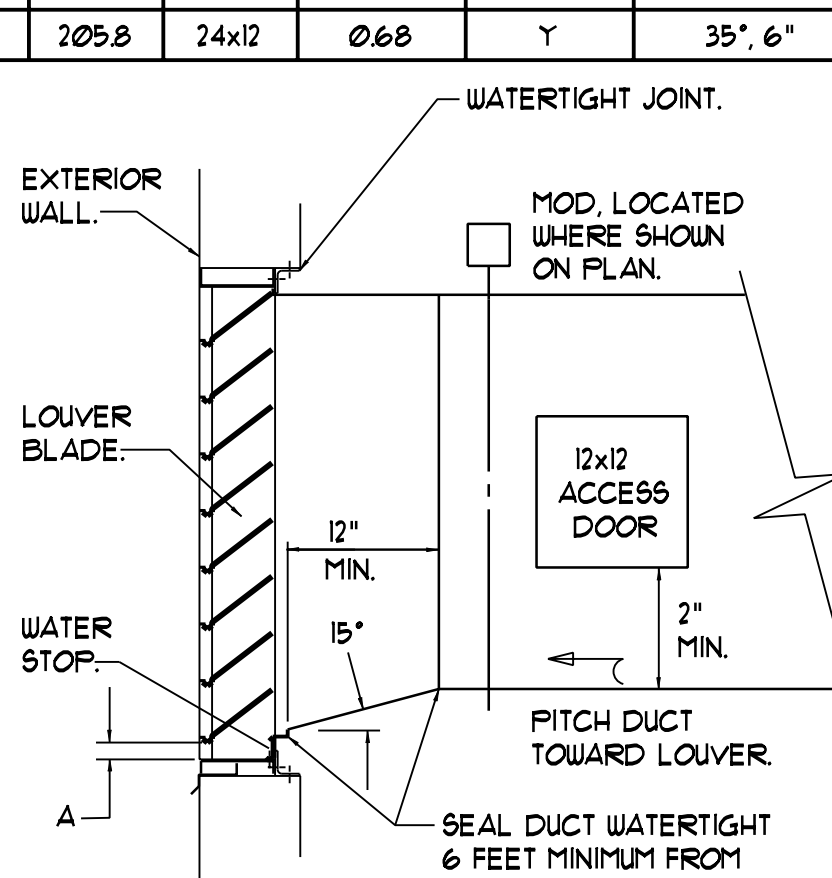
LOUVER DETAIL WITH DUCT FROM BELOW

NTS
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



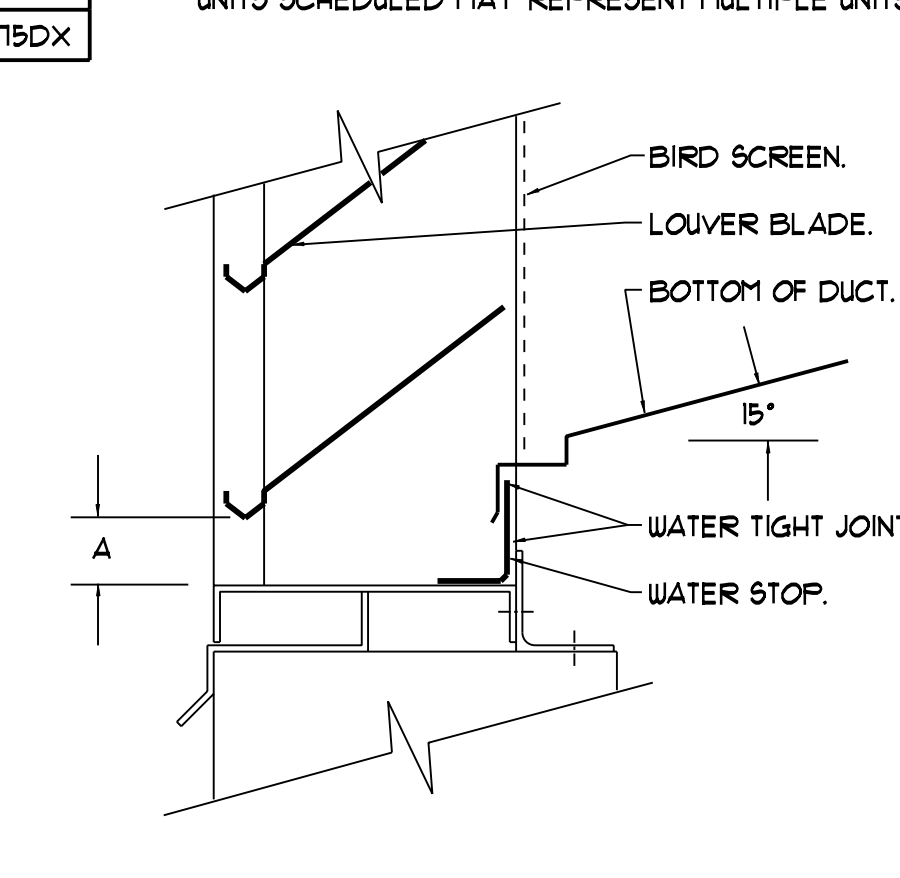
LOUVER DETAIL WITH DUCT FROM ABOVE

NTS
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



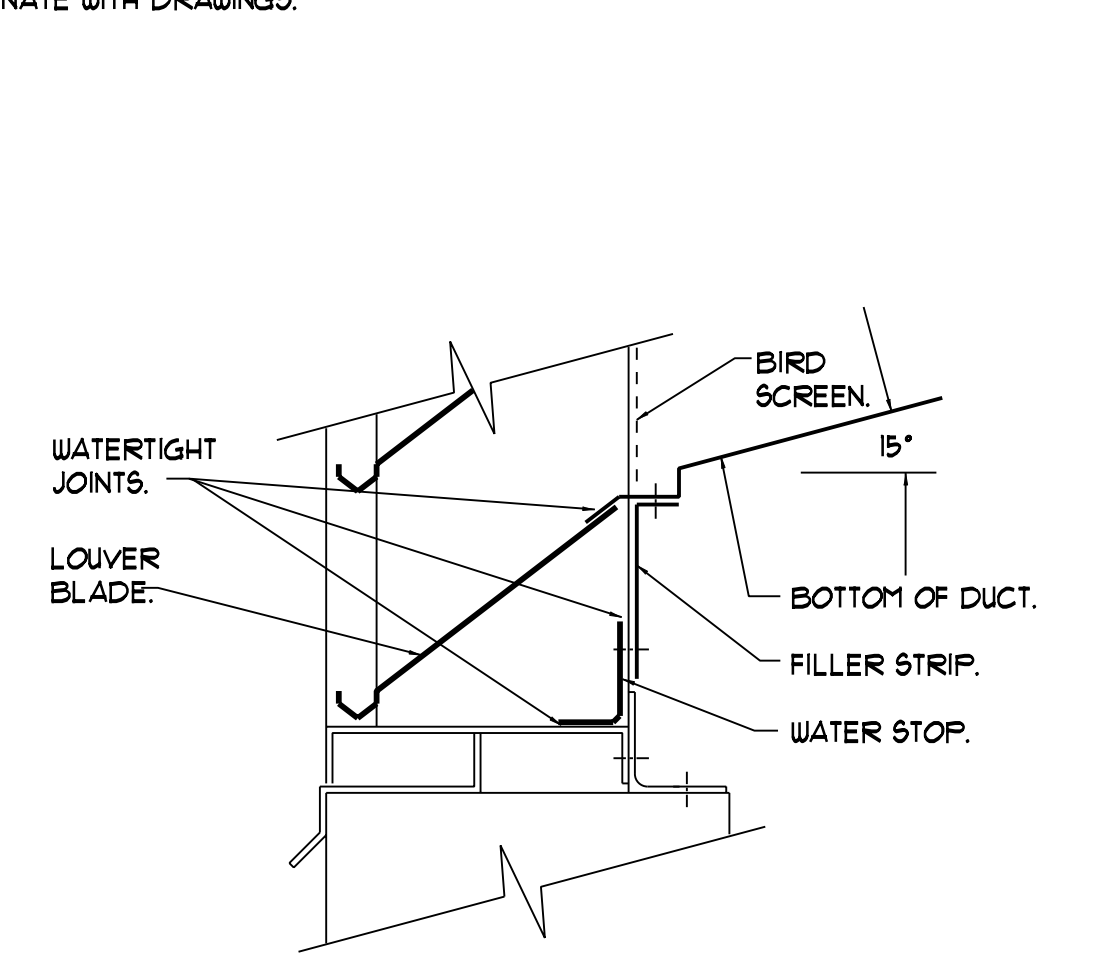
LOUVER DETAIL WITH HORIZONTAL DUCT

NTS
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



LOUVER CONNECTION DETAIL

NTS
NOTE FOR LOUVERS AND BLOCK VENTS. IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL AT RIGHT (LOUVERS ONLY).



MODIFIED LOUVER DETAIL

NTS

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)	BFP	BACKFLOW PREVENTER (BFP)	⊕-G	PRESSURE GAGE WITH GAGE COCK	AAY	AUTOMATIC AIR VENT	EDB	ENTERING DRY BULB	I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RLA	RUNNING LOAD AMPS
C	CONDENSATE DRAIN PIPING (C)	CV	CHECK VALVE	⊕-H	THERMOMETER IN WELL	AD	ACCESS DOOR	EER	ENERGY EFFICIENCY RATIO	IRUH	INDIRECT FIRED WATER HEATER TAG	RFM	REVOLUTIONS PER MINUTE
G	GAS PIPING (G)	AV	BALANCING VALVE (ADJUSTABLE)	⊕-I	WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EF	EXHAUST FAN TAG	IN	INCHES	RPZ	REDUCED PRESSURE ZONE
HWR	HOT WATER RETURN PIPING (HWR)	AVC	AUTOMATIC FLOW CONTROL VALVE	⊕-J	PRESSURE SWITCH OR SENSOR	AMPS	AMPERES	EFF	EFFICIENCY	L	LOUVER TAG	RTU	ROOM TEMPERATURE SENSOR
HWS	HOT WATER SUPPLY PIPING (HWS)	AVD	RELIEF VALVE (RV)	⊕-K	EMERSION TEMPERATURE SENSOR	AP	ACCESS PANEL	ESP	EXTERNAL STATIC PRESSURE	L*	LOUVER TAG	RV	RELIEF VALVE
RL	REFRIGERANT LIQUID PIPING (RL)	AVD	BALL VALVE	⊕-L	DUCT MOUNTED SMOKE DETECTOR	APD	AIR PRESSURE DROP	ET	EXPANSION TANK TAG	LAT	LEAVING AIR TEMPERATURE	RUL	RAINWATER LEADER
RG	REFRIGERANT GAS PIPING (RG)	AVD	BALL VALVE	⊕-M	ROOM TEMPERATURE SENSOR	AS	AIR SEPARATOR TAG	EUB	ENTERING WET BULB	LB	POUNDS	SA	SUPPLY AIR
-----	SANITARY PIPING BELOW FLOOR (SAN)	AVD	3/4" BALL VALVE WITH 3/4" HOSE END	⊕-N	THERMOSTAT OR SENSOR ON WALL	AS*	AIR SEPARATOR TAG	EUT	ENTERING WATER TEMPERATURE	LRA	LOCKED ROTOR AMPS	SAN	SANITARY (DRAIN & WASTE)
-----	SANITARY PIPING ABOVE FLOOR (SAN)	AVD	GATE VALVE	⊕-O	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	ATC	AUTOMATIC TEMPERATURE CONTROL	EXG	EXISTING	LWCO	LOW WATER CUTOFF	SP	STATIC PRESSURE
-----	SANITARY VENT PIPING	AVD	FUSIBLE REDUCING VALVE	⊕-P	MANUAL AIR VENT	B	BOILER TAG	EXH	EXHAUST	LUT	LEAVING WATER TEMPERATURE	SQFT	SQUARE FEET
RWL	RAINWATER LEADER ABOVE SLAB (RWL)	AVD	FUSIBLE VALVE	⊕-Q	NOTE TAG (NUMBER)	BFP	BACKFLOW PREVENTER TAG	FC	FLEXIBLE CONNECTION	MAX	MAXIMUM	ΔT	TEMPERATURE DIFFERENTIAL
CW	COLD WATER PIPING (CW)	AVD	STRAINER W/BLOWDOWN BALL VALVE	⊕-R	AIR DEVICE TAG (LETTER) WITH CFM	BHP	BRAKE HORSEPOWER	FCO	FLOOR CLEANOUT	MBH	THOUSANDS OF BTU PER HOUR	TEMP	TEMPERATURE
HW	HOT WATER PIPING (HW)	AVD	2-WAY CONTROL VALVE	⊕-S	ROOM NUMBER	BTUH	BRITISH THERMAL UNITS PER HOUR	FD	FIRE DAMPER	MCA	MINIMUM CIRCUIT AMPACITY	TCP	TEMPERATURE CONTROL PANEL
RHW	RECIRCULATED HOT WATER PIPING (RHW)	AVD	SOLENOID VALVE	⊕-T	TURNING VANES	CFM	CUBIC FEET PER MINUTE	FD*	FLOOR DRAIN TAG	MIN	MINIMUM	TMV	THERMOSTATIC MIXING VALVE TAG
⊔	PIPE CAP	AVD	3-WAY CONTROL VALVE	⊕-U	DUCT W/MANUAL DAMPER	CO	CLEANOUT	FLA	FULL LOAD AMPS	NC	NOISE CRITERION	TSP	TOTAL STATIC PRESSURE
→	DIRECTION OF FLUID FLOW	AVD	3-WAY CONTROL VALVE (TOP VIEW)	⊕-V	DUCT W/SQUARE-TO-ROUND TRANSITION	CUH*	CABINET UNIT HEATER TAG	FFHB	FROST PROOF HOSE BIBB	NIC	NOT IN CONTRACT	TYP	TYPICAL
⊔	ELBOW UP	AVD	TRIPLE-DUTY VALVE	⊕-W	FLEXIBLE DUCT	CP*	CIRCULATING FUMP TAG	FFM	FEET PER MINUTE	NTS	NOT TO SCALE	VB	VACUUM BREAKER
⊔	ELBOW DOWN	AVD	UNION	⊕-X	MOTOR OPERATED DAMPER	CV	VALVE COEFFICIENT	FFYH	FROST PROOF YARD HYDRANT	OA	OUTSIDE AIR	VFD	VARIABLE FREQUENCY INVERTER DRIVE
⊔	PIPE TEE UP	AVD	PIPE FLANGE	⊕-Y	MOD	CW	COLD WATER	FT	FEET	OD	OUTSIDE DIAMETER	VTR	VENT THRU ROOF
⊔	PIPE TEE DOWN	AVD	PUMP WITH FLANGES	⊕-Z	MOD	DB	DRY BULB	FTR*	FINTUBE RADIATION TAG	OPD	OVERCURRENT PROTECTIVE DEVICE	V/PH/Hz	VOLTS/PHASES/HERTZ
⊔	PIPE REDUCER	AVD	CARTRIDGE TYPE INLINE PUMP	⊕-AA	MOD	DC	DOUBLE CHECK	GA	GAGE	P*	PLUMBING FIXTURE TAG	WB	WET BULB
⊔	PIPE WITH GUIDE	AVD	VERTICAL INLINE PUMP	⊕-AB	MOD	DCA	DOUBLE CHECK ATMOSPHERIC	GAL	GALLONS	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	WCO	WALL CLEANOUT
⊔	PIPE WITH ANCHOR	AVD	FLEXIBLE PIPE CONNECTION (FC)	⊕-AC	MOD	DEG F	DEGREES FAHRENHEIT	GPM	GALLONS PER MINUTE	PSIG	POUNDS PER SQUARE INCH GAGE	WG	WATER GAGE
⊔	BUTTERFLY VALVE	AVD	PITCH DOWN	⊕-AD	MOD	DIA	DIAMETER	HC*	HEATING COIL TAG	FVC	POLYVINYL CHLORIDE (PIPE)	WPD	WATER PRESSURE DROP
⊔	OS & Y GATE VALVE	AVD	PETCOCK	⊕-AE	MOD	DIW	DOWN IN WALL	HP	HORSEPOWER	RA	RETURN AIR	WSA	WIRE SIZING AMPS
		AVD		⊕-AF	MOD	DN	DOWN	HU	HOT WATER	RD	ROOF DRAIN	WTD	WATER TEMPERATURE DROP
		AVD		⊕-AG	MOD	EA	EXHAUST AIR	HWS/R	HOT WATER SUPPLY AND RETURN	RHW	RECIRCULATED HOT WATER	W	WITH
		AVD		⊕-AH	MOD	EAT	ENTERING AIR TEMPERATURE						



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