

" SPRINKLER

SERVICE FLANGE.

(NFPA 13R)

4" SPRINKLER SERVICE FLANGE FOR FUTURE FIT-UP.

(FUTURE NFPA 13)

6" SPRINKLER

SPRINKLER ENTRANCE DETAIL

F	PLUMBING FIXTURE CON	INECT	ION SO	CHEDU	JLE
TAG	DESCRIPTION	SAN	∨ENT	CW	HW
P-1	FLOOR MOUNTED IT WC	3"	2"	1/2"	-
P-2	COUNTERTOP LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-3A	36" STALL SHOWER	2"	2"	1/2"	1/2"
P-3B	48" STALL SHOWER	2"	2"	1/2"	1/2"
P-3B	60" TUB/SHOWER	2"	2"	1/2"	1/2"
P-4	DOUBLE BOWL 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"
P-6	ICE MAKER HOOK-UP	-	-	1/2"	-
FD	FLOOR DRAIN (W/ TRAP PRIMER)	2"	1-1/2"	1/2"	-
MINIMIN	1 SIZE OF BELOW SLAB SANITARY & VE	NT PIPING	SHALL BI	= 2"	

MINIMUM SIZE OF BELOW SLAB SANITARY 4 VENT PIPING SHALL BE 2".
PROVIDE TRAP PRIMERS ON FLOOR DRAINS, CONNECT TO NEAREST FIXTURE. · - PROVIDE DISHWASHER CONNECTIONS, PIPING AND CONNECT TO DISHWASHER

PU/	1P PE	RFOR	MANC	E SCH	HEDUL	E	

TAG	FLOW RATE	HEAD	IMPEL.	RPM	EFF %		ELECTR	ICAL REQI	JIREMENTS)	BASIS C	OF DESIGN - TAC	CO
TAG	(GPM)	(FT.WG)	SIZE	KFII	EFF /6	Ţ	BHP	WATTS	AMP5	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
CP-I	2.Ø	15.0	-	3250	-	1/40	-	-	Ø.52	120/1/60	ZONE 1	INLINE CART	<i>00</i> 8
CP-2	2.0	15.0	-	3250	-	1/40	-	-	Ø.52	120/1/60	ZONE 2	INLINE CART	<i>00</i> 8

GAS BOILER PERFORMANCE SCHEDULE HEATING HEATING MIN. HTG INPUT OUTPUT CAPACITY (MBH) (MBH) (MBH) AFUE. (%) FUEL 110.0 99.0 210 3"/3" 5.0 120/1/60 EXCELLENCE 110 B-1 30.0 NG 95.0 HWS/R

TEM	TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE											
TAG	FLOW RATE	INLET CONNECTION	OUTLET	w.p.d	SET POINT	PROVIDE SPARE CARTRIDGE	BA619	6 OF DESIGN =	IN = LEONARD			
TAG	(GPM)	(INCHES)	(INCHES)	(PSIG)	(DEGREES F)	(Y) OR (N)	SERVICE	ARRANGEMENT	MODEL			
TM∨-1	6.0	3/4"	² / ₄ "	10.0	12 0° F	Y	DOM HW	WALL	370			

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

ET-1 - FILL-TROL PACKAGED EXPANSION TANK WITH AIR SEPARATOR AND VENT.

FIN.	TUBE F	PERF	ORMAN	ICE SCH					N 160°F AVERAGE AIR TEMPERATURE		
TAG	OUTPUT	FLOW RATE	I I I CUNI G.	ENCLOSURE	ELEMENT	ENCL <i>OS</i> URE	BASIS OF DESIGN = STERLING				
1 AG	(MBH/FT)		HEIGHT(IN)	HEIGHT(IN)	LENGTH(FT)	LENGTH(FT)	TUBE SIZE(IN)	FINS/FOOT	VALVE TAG	MODEL	
FTR-1	0.56	2.Ø	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.

BFF	PE	RFOR	MANC	CE SCHEE		(DDC) = DOU	BLE DETECTION CH	RENCED ARE AS FOLLOWS ECK, (DCA) = DOUBLE CHE REDUCED PRESSURE ZON	ECK WITH ATMOSPHERIC	
TAG	SIZE	FLOW RATE	W.P.D	MAX. WORK'G. TEMPERATURE		TESTABLE	BASIS OF DESIGN - WATTS			
<u> </u>	SIZE	(GPM)	(PSI)	(DEGREES F)	(PSI)	(Y) OR (N)	BODY STYLE:	SERVICE	MODEL	
BFP-1	² ⁄4"	20.0	13.0	180.0	175	Y	DC	WATER ENTRANCE	950×L	
BFP-2	"را	10.0	15.0	180.0	175	Y	DC	BOILER FILL	950XL	

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Drwg Date / Issued by / Drwg Issue											
5/10/13	BEI	For Bldg Dept Review & Bidding									
		Only, Not For Construction									

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—			BACKFLOW PREVENTER (BFP)	(1) -δ-	PRESSURE GAGE WITH GAGE COCK	AAV	AUTOMATIC AIR VENT	EDB	ENTERING DRY BULB	I:B:R	INSTITUTE OF BOILER AND	RLA	RUNNING LOAD AMPS
—c—	CONDENSATE DRAIN PIPING (C)	7	CHECK VALVE	(⊦) ⊒-	THERMOMETER IN WELL	AD	ACCESS DOOR	EER	ENERGY EFFICIENCY RATIO		RADIATOR MANUFACTURERS	RPM	REVOLUTIONS PER MINUTE
<u>—</u> G——	GAS PIPING (G)	\otimes	BALANCING VALVE (ADJUSTABLE)	<u>u</u> —	WATER FLOW SWITCH	∆ FF	ABOVE FINISHED FLOOR	EF-*	EXHAUST FAN TAG	IFWH-#	INDIRECT FIRED WATER HEATER TAG	RPI	REDUCED PRESSURE ZONE
HWR $$	HOT WATER RETURN PIPING (HWR)	Θ	AUTOMATIC FLOW CONTROL VALVE	<u>□</u> _ ⊢-	PRESSURE SWITCH OR SENSOR	AMPS	AMPERES	EFF	EFFICIENCY	IN.	INCHES	RTU	ROOM TEMPERATURE SENSOR
— HWS——	HOT WATER SUPPLY PIPING (HWS)	. ₾	RELIEF VALVE (RV)		EMURSION TEMPERATURE SENSOR	AP	ACCESS PANEL	ESP	EXTERNAL STATIC PRESSURE	L-*	LOUVER TAG	RV	RELIEF VALVE
— RL—	REFRIGERANT LIQUID PIPING (RL)	Ø	BALL VALVE	⊕ -□	DUCT MOUNTED SMOKE DETECTOR	APD	AIR PRESSURE DROP	ET-*	EXPANSION TANK TAG	LAT	LEAVING AIR TEMPERATURE	RWL	RAINWATER LEADER
	REFRIGERANT GAS PIPING (RG)	<u></u>	BALL VALVE	®	ROOM TEMPERATURE SENSOR	AS-*	AIR SEPARATOR TAG	EWB	ENTERING WET BULB	LB	POUNDS	SA	SUPPLY AIR
	SANITARY PIPING BELOW FLOOR (SAN)	ØЕ	3/4" BALL VALVE WITH 3/4" HOSE END	Ť (S	THERMOSTAT OR SENSOR ON WALL	ATC	AUTOMATIC TEMPERATURE CONTROL	. EWT	ENTERING WATER TEMPERATURE	LRA	LOCKED ROTOR AMPS	SAN	SANITARY (DRAIN & WASTE)
	SANITARY PIPING ABOVE FLOOR (SAN)	\bowtie	GATE VALVE	T _G	TSTAT OR SENSOR W/ TAMPERPROOF GUARI	р в- *	BOILER TAG	EXG	EXISTING	LWCO	LOW WATER CUTOUT	SP	STATIC PRESSURE
	SANITARY VENT PIPING		PRESSURE REDUCING VALVE	\bigcirc	MANUAL AIR VENT	BFP-*	BACKFLOW PREVENTER TAG	EXH	EXHAUST	LWT	LEAVING WATER TEMPERATURE	SQFT	SQUARE FEET
	RAINWATER LEADER ABOVE SLAB (RWL)	\bowtie	FUSIBLE VALVE	(2)	NOTE TAG (NUMBER)	BHP	BRAKE HORSEPOWER	FC	FLEXIBLE CONNECTION	MAX	MAXIMUM	△T	TEMPERATURE DIFFERENTIAL
	COLD WATER PIPING (CW)	п 	STRAINER W/BLOWDOWN BALL VALVE	(A) 250	AIR DEVICE TAG (LETTER) WITH CFM	BTUH	BRITISH THERMAL UNITS PER HOUR	FCO	FLOOR CLEANOUT	MBH	THOUSANDS OF BTU PER HOUR	TEMP.	TEMPERATURE
	HOT WATER PIPING (HW)	₽	2-WAY CONTROL VALVE	101	ROOM NUMBER	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MCA	MINIMUM CIRCUIT AMPACITY	TCP	TEMPERATURE CONTROL PANEL
	RECIRCULATED HOT WATER PIPING (RHW)	_ ಡ	SOLENOID VALVE	((<u>((</u> ((((TURNING VANES	CO	CLEANOUT	FD-♥	FLOOR DRAIN TAG	MIN	MINIMUM	TMV-*	THERMOSTATIC MIXING VALVE TAG
 1	PIPE CAP	₩	3-WAY CONTROL VALVE		DUCT W/MANUAL DAMPER	CUH-*	CABINET UNIT HEATER TAG	FL <i>A</i>	FULL LOAD AMPS	NC	NOISE CRITERION	TSP	TOTAL STATIC PRESSURE
	DIRECTION OF FLUID FLOW	_ - ₩-	3-WAY CONTROL VALVE (TOP VIEW)		DUCT W/SQUARE-TO-ROUND TRANSITION	CP-*	CIRCULATING PUMP TAG	FPHB	FROST PROOF HOSE BIBB	NIC	NOT IN CONTRACT	TYP	TYPICAL
	ELBOW UP		TRIPLE-DUTY VALVE		FLEXIBLE DUCT	Cv	VALVE COEFFICIENT	FPM	FEET PER MINUTE	NTS	NOT TO SCALE	VΒ	VACUUM BREAKER
	ELBOW DOWN			MOD	MOTOR OPERATED DAMPER	CW	COLD WATER	FPYH	FROST PROOF YARD HYDRANT	OA	OUTSIDE AIR	VFD	VARIABLE FREQUENCY INVERTER DRIV
	PIPE TEE UP	<u>-</u> ⊢	PIPE FLANGE		AIRFLOW OUT	DB	DRY BULB	FT	FEET	O.D.	OUTSIDE DIAMETER	VTR	VENT THRU ROOF
 -	PIPE TEE DOWN		PUMP WITH FLANGES		AIRFLOW IN	DC	DOUBLE CHECK	FTR-*	FINTUBE RADIATION TAG	OPD	OVERCURRENT PROTECTIVE DEVICE	V/PH/HZ	VOLTS/PHASES/HERTZ
_ <u>`</u>	PIPE REDUCER		CARTRIDGE TYPE INLINE PUMP	φ	DIAMETER OR FLAT OVAL	DCA	DOUBLE CHECK ATMOSPHERIC	GA.	GAGE	P-*	PLUMBING FIXTURE TAG	WB	WET BULB
	PIPE WITH GUIDE	#			FIRE DAMPER	DEG F	DEGREES FAHRENHEIT	GAL	GALLONS	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	wco .	WALL CLEANOUT
_	PIPE WITH ANCHOR		VERTICAL INLINE PUMP		ROUND OR FLAT OVAL DUCT DOWN	DIA	DIAMETER	GPM	GALLONS PER MINUTE	PSIG	POUNDS PER SQUARE INCH GAGE	WG	WATER GAGE
∄	BUTTERFLY VALVE	FC M	FLEXIBLE PIPE CONNECTION (FC)		ROUND OR FLAT OVAL DUCT UP	DIW	DOWN IN WALL	HC-*	HEATING COIL TAG	PVC	POLYVINYL CHLORIDE (PIPE)	WPD	WATER PRESSURE DROP
"	OS & Y GATE VALVE	> ►	PITCH DOWN	一门送日	SUPPLY DIFFUSER	DN	DOWN	HP	HORSEPOWER	RA	RETURN AIR	WSA	WIRE SIZING AMPS
V 7	OUT I GAIL TALTE	⊸ δ—	PETCOCK		RETURN GRILLE	EA	EXHAUST AIR	HW	HOT WATER	RD	ROOF DRAIN	WTD	WATER TEMPERATURE DROP
				و لگا	WATER HAMMER ARRESTOR	EAT	ENTERING AIR TEMPERATURE	HWS/R	HOT WATER SUPPLY AND RETURN	RHW	RECIRCULATED HOT WATER	W/	WITH

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Drawing Title
MECH. SCHEDULES & LEGEND

Drawing Number

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