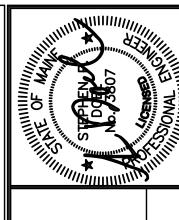
DOMESTIC HOT WATER PIPING SCHEMATIC

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ARREVIATION	DESCRIPTION	ABBREVIATION	I DESCRIPTION	ARROEVIATION	DESCRIPTION
3 ITIDOL		$\Diamond \overline{\bot}$			DESCRIPTION	ADDREVIATION	A DESCRIPTION	ADDREVIATION	DESCRIPTION
-CA	COMPRESSED AIR PIPING (CA)	一一	2 BUTTERFLY VALVES W/ SINGLE ACTUATOR	R AA∨	AUTOMATIC AIR VENT	EV-*	EXHAUST VENT TAG	₽-#	PLUMBING FIXTURE TAG
-c	CONDENSATE DRAIN PIPING (C)	兄.	BUTTERFLY VALVE W/ ACTUATOR	AD	ACCESS DOOR	FC	FLEXIBLE CONNECTION	PENET'N	PENETRATION
-CTR	COOLING TOWER RETURN PIPING (CTR)	- - . ₩		AFF	ABOVE FINISHED FLOOR	FCO	FLOOR CLEANOUT	PF-#	PADDLE FAN TAG
-CTS	COOLING TOWER SUPPLY PIPING (CTS)	, WI	TRIPLE-DUTY VALVE	AHU-#	AIR HANDLING UNIT TAG	FD	FIRE DAMPER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
-CWR	CHILLED WATER RETURN PIPING (CWR)	Щ.,	UNION	AFSD	ADJUSTABLE FLOW STATION FOR	FD-#	FLOOR DRAIN TAG	PSIG	POUNDS PER SQUARE INCH GAGE
-CWS	CHILLED WATER SUPPLY PIPING (CWS)		PIPE FLANGE		DISPLACEMENT DIFFUSERS	FLA	FULL LOAD AMPS	PVC	POLYVINYL CHLORIDE (PIPE)
FOR-	FUEL OIL RETURN PIPING (FOR)	® c₀2	CARBON DIOXIDE SENSOR	AMPS	AMPERES	FLG	FUEL LEVEL GAUGE	RA	RETURN AIR
-F06	FUEL OIL SUPPLY PIPING (FOS)		BASE MOUNTED PUMP	AP	ACCESS PANEL	FOR	FUEL OIL RETURN	RD	ROOF DRAIN
-G	GAS PIPING (G)		BASE HOUNTED FUITE	APD	AIR PRESSURE DROP	F06	FUEL OIL SUPPLY	RDE	RECOMMENDED DUAL ELEMENT FUSE A
 -HW R	HOT WATER RETURN PIPING (HWR)		CARTRIDGE TYPE INLINE PUMP	AS-#	AIR SEPARATOR TAG	FPHB	FROST PROOF HOSE BIBB	RFM-#	RADIANT FLOOR MANIFOLD TAG
-HWS	HOT WATER SUPPLY PIPING (HWS)			ATC	AUTOMATIC TEMPERATURE CONTROL	FPM	FEET PER MINUTE	RG-#	RETURN GRILLE TAG
-RL	REFRIGERANT LIQUID PIPING (RL)	@	VERTICAL INLINE PUMP	B-#	BOILER TAG	FS-#	FLOOR SINK TAG	RHW	RECIRCULATED HOT WATER
RG-	REFRIGERANT GAS PIPING (RG)	FC M	FLEXIBLE PIPE CONNECTION (FC)	BD-#	BYPASS DAMPER TAG	FŤ	FEET	RLA	RUNNING LOAD AMPS
	, - , , , - - , , , , , , - , , ,	<u>,</u> →	PITCH DOWN	BFP-*	BACKFLOW PREVENTER TAG	FTR-#	FINTUBE RADIATION TAG	RPM	REVOLUTIONS PER MINUTE
-LTHWR-		— —	PETCOCK	BHP	BRAKE HORSEPOWER	GA.	GAGE	RP5	REVOLUTIONS PER SECOND
-LTHWS-	- LOW TEMP HOT WATER SUPPLY PIPING (LTHUS	³⁾ (1)-ō-	PRESSURE GAGE WITH GAGE COCK	BTUH	BRITISH THERMAL UNITS PER HOUR	GAL	GALLONS	RPZ	REDUCED PRESSURE ZONE
	SANITARY PIPING BELOW FLOOR (SAN)	(-) -⊒-	THERMOMETER IN WELL	B.S.	BELOW SLAB	GFWH-#	GAS FIRED WATER HEATER TAG	RR-#	RETURN REGISTER TAG
	SANITARY PIPING ABOVE FLOOR (SAN)	ш́—	WATER FLOW SWITCH	CA	COMPRESSED AIR PIPING	GPH	GALLONS PER HOUR	RTU	ROOM TEMPERATURE SENSOR
	SANITARY VENT PIPING	<u>a</u> —	PRESSURE SWITCH OR SENSOR	CFM	CUBIC FEET PER MINUTE	GPM	GALLONS PER MINUTE	RY	RELIEF VALVE
-RWL	RAINWATER LEADER ABOVE SLAB (RWL)	F-	IMMERSION TEMPERATURE SENSOR	CHLR-#	CHILLER TAG	GUH-*	GAS UNIT HEATER TAG	RWL	RAINWATER LEADER
	DOMESTIC COLD WATER PIPING (CW)		DUCT MOUNTED SMOKE DETECTOR	CALR-*	CLEANOUT	HC-#	HEATING COIL TAG	SA	SUPPLY AIR
	DOMESTIC HOT WATER PIPING (HW)	(Sp	SWITCH w/ PILOT LIGHT	CONV-*	CONVECTOR TAG	HP	HORSEPOWER	SAN	SANITARY (DRAIN & WASTE)
		T	THERMOSTAT OR SENSOR ON WALL		CABINET UNIT HEATER TAG	HRV-*	HEAT RECOVERY VENTILATOR TAG	SD SD	SMOKE DAMPER
_	RECIRCULATED HOT WATER PIPING (RHW)	⊕	TEMP. SENSOR W/ TAMPERPROOF GUARD	CUH-#		HM HKA-+	HOT WATER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
]	PIPE CAP	\bigcirc	MANUAL AIR VENT	CP-#	CIRCULATING PUMP TAG			SEER SF	SUPPLY FAN
—	DIRECTION OF FLUID FLOW	2		CT-*	COOLING TOWER TAG	HWS/R	HOT WATER SUPPLY AND RETURN	5F 5G-*	SUPPLY GRILLE TAG
\longrightarrow	ELBOW UP	(2) (A) 25Ø	NOTE TAG (NUMBER)	CV	VALVE COEFFICIENT	I=B=R	INSTITUTE OF BOILER AND	5G-* SP	STATIC PRESSURE
	ELBOW DOWN	(A) 2500 (101)	AIR DEVICE TAG (LETTER) WITH CFM	CW	COLD WATER	100 L A	RADIATOR MANUFACTURERS	5P-#	
	PIPE TEE UP	· · · · · · · · · · · · · · · · · · ·	ROOM NUMBER	CHWS/R	CHILLED WATER SUPPLY AND RETURN	IFWH-*	INDIRECT FIRED WATER HEATER TAG	• 1	SUMP PUMP TAG
 -	PIPE TEE DOWN		TURNING VANES	DB	DRY BULB	IN.	INCHES	5R-#	SUPPLY REGISTER TAG
-D $-$	PIPE REDUCER	<u>† </u>	DUCT W/ MANUAL DAMPER	dB RE	DECIBELS RELATIVE TO	V-#	INTAKE VENT TAG	5QFT	SQUARE FEET
	PIPE WITH GUIDE		DUCT w/ FLEXIBLE CONNECTION (FC)	DC	DOUBLE CHECK	L- *	LOUVER TAG	<u>△</u> †	TEMPERATURE DIFFERENTIAL
$\overline{}$	PIPE WITH ANCHOR		LAGGED DUCT	DCA	DOUBLE CHECK ATMOSPHERIC	LAT	LEAVING AIR TEMPERATURE	TEMP.	TEMPERATURE
木	BUTTERFLY VALVE		DUCT w/ ACOUSTIC LINING	DEG F	DEGREES FAHRENHEIT	LB	POUNDS	TCP	TEMPERATURE CONTROL PANEL
	OS & Y GATE VALVE		DUCT w/ SQUARE-TO-ROUND TRANSITION	DIA	DIAMETER	LD-#	LINEAR DIFFUSER TAG	TMV-*	THERMOSTATIC MIXING VALVE TAG
	BACKFLOW PREVENTER (BFP)		FLEXIBLE DUCT	DIW	DOWN IN WALL	LMP	LEAK MONITORING PANEL	TSP	TOTAL STATIC PRESSURE
^ Z	CHECK VALVE	MD	MOTOR OPERATED DAMPER	DN	DOWN	LTHWS/R	LOW TEMPERATURE HOT WATER	TYP	TYPICAL
\otimes	BALANCING VALVE (ADJUSTABLE)	-	AIRFLOW OUT	EA	EXHAUST AIR	LRA	LOCKED ROTOR AMPS	UH-*	UNIT HEATER TAG
Θ	AUTOMATIC FLOW CONTROL VALVE		AIRFLOW IN	EAT	ENTERING AIR TEMPERATURE	LWCO	LOW WATER CUTOUT	∨ A∨- *	VARIABLE AIR VOLUME BOX TAG
\triangle	RELIEF VALVE (RV)	Ø	DIAMETER OR FLAT OVAL	EDB	ENTERING DRY BULB	L₩Ť	LEAVING WATER TEMPERATURE	VΒ	VACUUM BREAKER
ØĴ	BALL VALVE	FD	FIRE DAMPER	EDC-*	ELECTRIC DUCT COIL TAG	MAX	MAXIMUM	VFD	VARIABLE FREQUENCY INVERTER DRIV
~ (BALL VALVE		CONNECT TO EXISTING	EER	ENERGY EFFICIENCY RATIO	MBH	THOUSANDS OF BTU PER HOUR	YTR	VENT THRU ROOF
—Ø₽	3/4" BALL VALVE WITH 3/4" HOSE END	LO .	ROUND OR FLAT OVAL DUCT DOWN	EF-*	EXHAUST FAN TAG	MCA	MINIMUM CIRCUIT AMPACITY	V/PH/HZ	VOLTS/PHASES/HERTZ
⊠~.	GATE VALVE		ROUND OR FLAT OVAL DUCT UP	EFF	EFFICIENCY	MIN	MINIMUM	WB	WET BULB
	PRESSURE REDUCING VALVE		SUPPLY DIFFUSER	EG-*	EXHAUST GRILLE TAG	NC	NOISE CRITERA	WCO	WALL CLEANOUT
5	FUSIBLE VALVE		RETURN GRILLE	ER-#	EXHAUST REGISTER TAG	NIC	NOT IN CONTRACT	WG	WATER GAGE
\leftarrow	STRAINER W/ BLOWDOWN BALL VALVE			ESP	EXTERNAL STATIC PRESSURE	NTS	NOT TO SCALE	WPD	WATER PRESSURE DROP
丛 '`_'	2-WAY CONTROL VALVE			ET-#	EXPANSION TANK TAG	OA	OUTSIDE AIR	WSA	WIRE SIZING AMPS
~ ₽	SOLENOID VALVE	走	WATER HAMMER ARRESTOR	EWB	ENTERING WET BULB	<i>O</i> BD	OPPOSED BLADE DAMPER	WTD	WATER TEMPERATURE DROP
最				EWH-#	ELECTRIC WATER HEATER TAG	0.D.	OUTSIDE DIAMETER	w/	WITH
\ <u>\</u>	3-WAY CONTROL VALVE (TOR VIEW)	A	A SECTION REFERENCE	EWT	ENTERING WATER TEMPERATURE	<i>O</i> ED	OPEN ENDED DUCT	ZD-#	ZONE DAMPER TAG
1 T	3-WAY CONTROL VALVE (TOP VIEW)	M3 /	- OLUTION REFERENCE	EXG	EXISTING	OFWH-#	OIL FIRED WATER HEATER TAG		
☆ ⊢	4-WAY CONTROL VALVE (TOP VIEW)			-AG	LAIGHTO	OPD	OVERCURRENT PROTECTIVE DEVICE		



For: Archetype

roject: 16 MIDDLE STREET OFFICE BUILDING

Date:
13 APR 2017
1/8"=1'-0" U.N.O.
BenKay Restaurant
MECHANICAL DETAILS / LEGEND