

MECHANICAL SYMBOLS AND LEGEND			
PLUMBING		HVAC	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COMPRESSED AIR		UNION
	COLD WATER		LATERAL
	COLD WATER (W/ TEXT)		CROSS
	CONDENSATE DRAIN (ABOVE GRADE)		TEE
	CONDENSATE DRAIN (BELOW GRADE)		REDUCER
	DISCHARGE DRAIN		EXPANSION LOOP
	DRY STAND PIPE		FLEXIBLE CONNECTOR
	FIRE (WET PIPE)		HOSE BIBB
	GAS		TRAP PRIMER
	HOT WATER		AIR SEPARATOR
	HOT WATER (W/ TEXT)		PUMP
	LOW PRESSURE STEAM		ANCHOR, INTERMEDIATE
	RECIRCULATING (HOT WATER RETURN)		ANCHOR, MAIN
	REFRIGERANT DISCHARGE		EXPANSION JOINT
	REFRIGERANT LIQUID		FLOW METER, VENTURI
	REFRIGERANT SUCTION		FLOW SWITCH
	SANITARY (ABOVE GRADE)		PRESSURE SWITCH
	SANITARY (BELOW GRADE)		THERMOMETER
	STORM DRAIN (ABOVE GRADE)		HANGER, ROD
	STORM DRAIN (BELOW GRADE)		HANGER, SPRING
	VACUUM (AIR)		PRESSURE GAUGE WITH COCK
	VENT		WATER HAMMER ARRESTOR
	GAS COCK		ELBOW TURNED UP
	BALL VALVE		ELBOW TURNED DOWN
	BUTTERFLY VALVE		CONNECTION, BOTTOM
	GATE VALVE		CONNECTION, TOP
	GATE VALVE, ANGLE		BREAK LINE
	GLOBE VALVE		PIPE CAP
	GLOBE VALVE, ANGLE		POINT OF CONNECTION
	PLUG VALVE		FLOOR CLEANOUT/CLEANOUT TO GRADE
	THREE WAY VALVE		WALL CLEANOUT/CLEANOUT
	CHECK VALVE, SWING GATE		WALL HYDRANT
	CHECK VALVE, SPRING		FLOOR DRAIN
	PRESSURE REDUCING VALVE		OVERFLOW DRAIN
	SOLENOID VALVE		ROOF DRAIN/FUNNEL DRAIN
	MOTORIZED VALVE		RISER/VENT THRU ROOF (VTR)
	SQUARE HEAD COCK		FIRE SPRINKLER RISER
	STRAINER		ACCESS PANEL
	STRAINER, WITH BLOW OFF		MECHANICAL SYSTEM TO REMAIN
			MECHANICAL SYSTEM TO BE REMOVED

NOTE: SOME SYMBOLS IN THIS LEGEND MAY NOT APPEAR ON THE ACTUAL DRAWINGS.

### ABBREVIATIONS

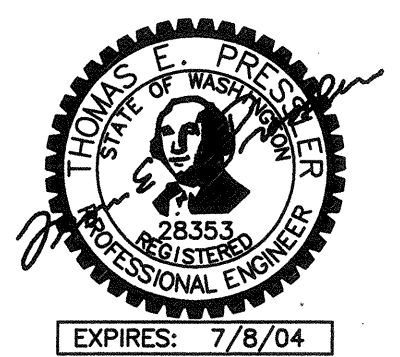
%	PERCENT	LWT	LEAVING WATER TEMPERATURE
AC	ALTERNATING CURRENT	MD	MOTORIZED DAMPER
ACU	AIR CONDITIONING UNIT(S)	MPH	MILES PER HOUR
AF	ABOVE FINISHED FLOOR	N/C	NORMALLY CLOSED
AHU	AIR HANDLING UNIT	N/O	NORMALLY OPEN
AMB	AMBIENT	N/A	NOT APPLICABLE
AMP	AMPERE (AMP, AMPS)	NC	NOISE CRITERIA
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NO	NOT IN CONTRACT
APPROX	APPROXIMATE	NTS	NOT TO SCALE
AVG	AVERAGE	OA	OUTSIDE AIR
BHP	BRAKE HORSEPOWER	OD	OUTSIDE DIAMETER, OUTSIDE
BTU	BRITISH THERMAL UNIT	OD	OVERFLOW DRAIN
C TO C	CENTER TO CENTER	OZ	OUNCE
CD	CONDENSATE DRAIN	PH	PHASE (ELECTRICAL)
CD	CEILING DIFFUSER	POC	POINT OF CONNECTION
CFM	CUBIC FEET PER MINUTE	PPM	PARTS PER MILLION
CMPR	COMPRESSOR	PRESS	PRESSURE
CO	CLEANOUT	PS	PRESSURE SWITCH
COEF	COEFFICIENT	PSF	POUNDS PER SQUARE FOOT
COND	CONDENSE-ER, -ING, -ATION	PSI	POUNDS PER SQUARE INCH
COTG	CLEANOUT TO GRADE	PSIG	PSI GAGE
CR	CONDENSATE RETURN	R	RISE
CJ FT	CUBIC FEET	R12, R22	REFRIGERANT (12,22, ETC.)
CU IN	CUBIC INCH	RA	RETURN AIR
D	COLD WATER	RCIR	RECIRCULATE
D	DISCHARGE DRAIN	RD	REFRIGERANT DISCHARGE
DB	DROP	RD	ROOF DRAIN
DBT	DEW-BULB TEMPERATURE	RH	RELATIVE HUMIDITY
DEG	DEGREE	RL	RELATIVE HUMIDITY
DIA	DIAMETER	RL	REFRIGERANT LIQUID
DIFF	DIFFERENCE OR DELTA	RP	REFRIGERANT SUCTION
DSP	DRY STAND PIPE	RS	RETURN REGISTER
DW	DRAIN, WASTE, VENT	RS	REFRIGERANT SUCTION
EJ	EXISTING	S	SANITARY, SOIL
EAT	ENTERING AIR TEMPERATURE	SA	SANITARY AIR
EF	EXHAUST FAN	SD	STORM DRAIN
EFF	EFFICIENCY	SD	SUPPLY DIFFUSER
EJ	EXPANSION JOINT	SH	SENSIBLE HEAT
EL	ELEVATION	SHG	SENSIBLE HEAT GAIN
ENT	ENTERING	SHR	SENSIBLE HEAT RATIO
ER	EXHAUST REGISTER	SP	STATIC PRESSURE
F	FABRICATED	SPEC	SPECIFICATION
F	FIRE (WET PIPE)	ST	STORM DRAIN
F	FLOOR CLEANOUT	STAT	TEMPERATURE DIFFERENCE
FD	FLOOR DRAIN	TD	TEMPERATURE DIFFERENCE
FD	FIRE DAMPER	TE	TEMPERATURE ENTERING
FDC	FIRE DEPARTMENT CONNECTION	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	TG	TRANSFER GRILLE
FPS	FEET PER SECOND	TL	TEMPERATURE LEAVING
FS	FIRE SPRINKLER	TR	TEMPERATURE RISE
FSD	FIRE/SMOKE DAMPER	TOT HT	TOTAL HEAT
FT	FOOT OR FEET	TW	TEMPERED WATER
FT LB	FOOT-POUND	U	HEAT TRANSFER COEFFICIENT
F	FLEXIBLE CONNECTION	UC	UNDERCUT DOOR
G	GALLONS	UH	UNIT HEATER
GAL	GALLONS PER HOUR	V	VENT, VOLT (ELECTRICAL)
GPM	GALLONS PER MINUTE	VA	VOLT AMPERE
HB	HOSE BIBB	VD	VOLUME DAMPER
HG	MERCURY	VEL	VELOCITY
HP	HORSEPOWER	VENT	VENTILATION, VENT
HPS	HIGH PRESSURE STEAM	VTR	VENT THRU ROOF
HR	HOURS	W	WASTE
HVAC	HEATING, VENTILATION, AIR CONDITIONING	WB	WET BULB TEMPERATURE
HW	HOT WATER	WBT	WALL CLEANOUT
HWR	HOT WATER RETURN (RECIRCULATING)	WH	WALL HYDRANT
HZ	FREQUENCY	WH	WATER HAMMER ARRESTOR
ID	DIAMETER, INSIDE	WT	WEIGHT
KW	KILOWATT	Z	ZONE
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		
LF	LINEAR FEET		
LH	LATENT HEAT		
LHG	HEAT GAIN, LATENT		
LPS	LOW PRESSURE STEAM		

### MECHANICAL DRAWING INDEX

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M302	MECHANICAL BOILER ROOM PLAN AND DETAILS
M303	PLUMBING RISER DIAGRAMS AND DETAILS



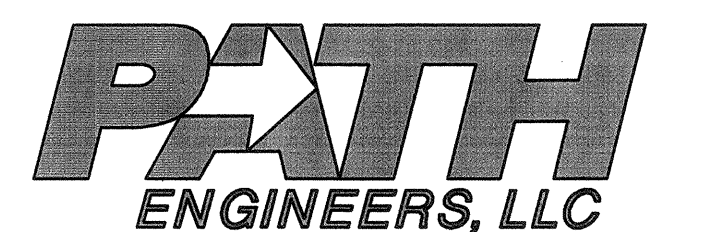
CONSTRUCTION DOCUMENTS  
BID SET



3		
2	ABBREVIATIONS CORRECTION	12/11/02
1	PERMIT CORRECTIONS	7/15/02
NO.	REVISION - AS BUILT	DATE

REVIEWED: *J. H. H. H.* 1/15/03  
PARK ENGINEER DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.



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MECHANICAL SYMBOLS, LEGEND  
AND ABBREVIATIONS

DESIGNED	KWB	DATE	JULY 23, 2002
DRAWN	CEA	DESIGN REVIEW	
CHECKED	TEP		
ORDINANCE NO.	119812 & 119987	SHEET	51 OF 76
CONTRACT NO.	1616		
SCALE	NO SCALE		

M001