



E1 AIR DISTRIBUTION SYMBOLS LEGEND **E6 PIPING SYMBOLS LEGEND**

140"	DOMESTIC COLD WATER	MPC	MEDIUM-PRESSURE CONDENSATE
ACID	ACID WASTE	MPS	MEDIUM-PRESSURE STEAM
AR	ARGON	MU	MAKEUP WATER
ATV	AIR RELIEF	N2	NITROGEN
B	BRINE SUPPLY	NG	NATURAL GAS
BR	BRINE RETURN	NO	NITROUS OXIDE
BDD	BOILER BLOWDOWN	NPW	NON-POTABLE
C	CONDENSATE	DX	OXYGEN
CA	CONDENSATE (BELOW FLOOR)	PC	PUMPED CONDENSATE
CA	COMPRESSED AIR	PCWR	PROCESSED COLD WATER RETURN
CDA	CLEAN DRY AIR	PCWS	PROCESSED COLD WATER SUPPLY
CHWR	CHILLED WATER RETURN	RCV	DOMESTIC WATER RETURN
CHWS	CHILLED WATER SUPPLY	RD	REFRIGERANT DISCHARGE
CWS	CONDENSER WATER SUPPLY	RL	REFRIGERANT LIQUID
CWR	CONDENSER WATER RETURN	RS	REFRIGERANT SUCTION
D	DRAIN	SD	STORM DRAIN ABOVE FLOOR OR GRADE
FDD	FUEL OIL DISCHARGE	SD	STORM DRAIN BELOW FLOOR OR GRADE
FDI	FUEL OIL FILL	SP	SPRINKLER MAIN PIPING
FDR	FUEL OIL RETURN	SS	SANITARY SOIL WASTE (ABOVE FLOOR)
FDS	FUEL OIL SUPPLY	SS	SANITARY SOIL WASTE (BELOW FLOOR)
FDV	FUEL OIL TANK VENT	SV	WASTE LINE AND VENT COMBINATION
GHR	GLYCOL HEATING RETURN	SW	SOFT WATER
GHS	GLYCOL HEATING SUPPLY	TP	TRAP PRIMER PIPING ABOVE GRADE
H	HUMIDIFICATION LINE	TP	TRAP PRIMER PIPING BELOW GRADE
H2	HYDROGEN GAS	TWR	TEMPERED RETURN WATER
HPH2	HIGH PRESSURE HYDROGEN GAS	TWS	TEMPERED SUPPLY WATER
HCV	HOWE CLEANING VAC.	VAC	VACUUM (AIR)
HE	HELIUM GAS	VC	VACUUM CLEANING
HG	HIGH PRESSURE GAS	VPD	VACUUM PUMP DISCHARGE
HPC	HIGH-PRESSURE CONDENSATE		
HPS	HIGH-PRESSURE CONDENSATE SUPPLY		
HTWR	HIGH-TEMP. HOT WATER RETURN		
HWR	LOW-HOT WATER RETURN		
HWS	HOT WATER SUPPLY		
IND	INDUSTRIAL WASTE		
IW	INDIRECT DRAIN		
LN	LIQUID NITROGEN		
LX	LIQUID OXYGEN		
LPC	LOW-PRESSURE CONDENSATE		
LPG	LIQUID PETROLEUM GAS		
LPS	LOW-PRESSURE STEAM		
MA	MEDICAL AIR		
MG	MED. PRESSURE GAS		

NOTE
 ALL GENERAL NOTES, SYMBOL LEGENDS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL HVAC DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.

AAV	AUTOMATIC AIR VENT	ENC	ENCLOSURE	OED	OPEN ENDED DUCT	WH	WATER HEATER
AC	ABOVE CEILING	ER	EXHAUST REGISTER	P-#	PLUMBING FIXTURE TAG	WHYD	WALL HYDRANT
ACC	AIR COOLED CONDENSER	EX-(E)	EXISTING	PD	PUMPED DISCHARGE	NTS	NOT TO SCALE
ACU	AIR CONDITIONING UNIT	F & T	FLOAT AND THERMOSTATIC	PPE	PRE PURCHASED EQUIPMENT	12"φ	12" DIAMETER DUCT
ADA	AMERICANS WITH DISABILITIES ACT	FBO	FURNISHED BY OTHERS	PRS	PRESSURE REDUCING STATION	@	AT AND PERCENT
AD	ACCESS DOOR	FBP	FACE AND BYPASS	PRV	PRESSURE REDUCING VALVE	%	PERCENT
AE	ACID EXHAUST	FC	FLEXIBLE CONNECTION	PVD	PNEUMATIC VOLUME DAMPER		
AF	ABOVE FINISHED FLOOR	FCO	FLOOR CLEANOUT	R	RETURN AIR		
AHJ	AIR HANDLING UNIT	FD-#	FLOOR DRAIN TAG	RD	ROOF DRAIN		
AP	ACCESS PANEL	FD	FIRE DAMPER	REG	REGULAR		
APPROX	APPROXIMATE; APPROXIMATELY	FIN	FINISH	RF	RETURN FAN		
ATC	AUTOMATIC TEMPERATURE CONTROL	FL	FLOOR	RG	RETURN GRILLE		
AV	AIR VENT	FTG	FOOTING	RHC	REHEAT COIL		
BC	BALANCING COCK	FTR	FINNED TUBE RADIATION	RM	ROOM		
BDD	BACKDRAFT DAMPER	FS	FLOOR SWITCH	RM	ROOM		
BG	BLAST GATE	G	GAS	RPZ	REDUCED PRESSURE BFP		
BF	BARRIER FREE	GC	GENERAL CONTRACTOR	RR	RETURN REGISTER		
BFP	BACKFLOW PREVENTER	GPF	GALLONS PER FLUSH	RV	RELIEF VALVE		
BLDG	BUILDING	H	HUMIDIFIER	SA-"	SUPPLY AIR AS INDICATED		
BDD	BOTTOM OF DUCT	HC, HDC	HANDICAP ACCESS	SL	SOIL		
B.T.U.	BRITISH THERMAL UNIT	HGT	HEIGHT	SCV	SELF CONTAINED VALVE		
CFF	CAPPED FOR FUTURE	HPT	HOSE PIPE THREAD	SD	SMOKE DETECTOR		
CFM	CUBIC FEET PER MINUTE	HRU	HEAT RECOVERY UNIT	SF	SUPPLY FAN		
CLG	CEILING	HTR	HEATER	SG	SUPPLY GRILLE		
C.O.	CLEANOUT	H & V	HEATING AND VENTILATION	SGL	SINGLE		
CNTR	COUNTER; COUNTERTOP	HVAC	HEATING, VENTILATING, & AIR COND.	SHT	SHEET		
CONN	CONNECT; CONNECTION	HW	HOT WATER	SK	SINK		
CONT	CONTINUE; CONTINUATION	HWR	HOT WATER RETURN	SPLR	SPRINKLER		
CONV.	CONVECTOR	HX	HEAT EXCHANGER	SQ FT	SQUARE FEET		
COORD	COORDINATE	IN WG	INCHES WATER GAUGE	S/O	SHUT OFF		
CORR	CORRIDOR	INCL	INCLUDING	SR	SUPPLY REGISTER		
CR	CHEMICAL RESISTING	INV EL	INVERT ELEVATION	SS, S.S.	STAINLESS STEEL		
CT	COOLING TOWER	IPS	IRON PIPE SIZE	T	TEMPERED WATER		
CTE	CONNECT TO EXISTING	KE-#	KITCHEN EQUIPMENT NUMBER	TG	TRANSFER GRILLE		
CTR	CENTER	LD	LINEAR DIFFUSER	TP	TRAP PRIMER		
CTRLN	CENTERLINE	LE-#	SCIENCE LAB EQUIPMENT NUMBER	TTS	TIGHT TO STEEL		
CU	COPPER	LPG	LIQUID PETROLEUM GAS	TV	TURNING VANE		
CUH	CABINET UNIT HEATER	MAX	MAXIMUM	TYP	TYPICAL		
C.V.	CONTROL VALVE	MFR	MANUFACTURER	UH	UNIT HEATER		
CW	COLD WATER	MIN	MINIMUM	UIC	UP IN CHASE		
DC	DOUBLE CONTAINED	MOD	MOTOR OPERATOR DAMPER	UIW	UP IN WALL		
DDC	DIRECT DIGITAL CONTROL	MPG	MEDIUM PRESSURE GAS	UV	UNIT VENTILATOR		
DET	DETAIL	MTD	MULTI-PURPOSE VALVE	V	VENT		
DIA	DIAMETER	MTV	MOUNTED	VB	VACUUM BREAKER		
DIC	DOWN IN CHASE	MTG	MOUNTING	VCFF	VALVED AND CAPPED FOR FUTURE		
DW	DOWN IN WALL	MUA	MAKE UP AIR	VD	VOLUME DAMPER - MANUAL		
DN	DOWN	N.C.	NORMALLY CLOSED	VLV	VALVE		
DS	DOWNSPOUT	N.O.	NORMALLY OPEN	VS	VENT STACK		
DT	DROP AND TRANSITION	NIC	NOT IN CONTRACT	VTR; V.T.R.	VENT THROUGH ROOF		
DV	DRAIN VALVE	NPT	NATIONAL PIPE THREAD	W	WASTE		
DWG	DRAWING	NTS	NOT TO SCALE	W/	WITH		
EA	EXHAUST AIR	OA	OUTSIDE AIR	WCO	WALL CLEANOUT		
EF	EXHAUST FAN	OBD	OPPOSED BLADE DAMPER				
EL; ELEV	ELEVATION						
ELONG	ELONGATE						

	ELECTRICAL PANEL
	SINGLE-POLE SWITCHES GANGED UNDER 1 PLATE
	FIRE ALARM CONTROL PANEL
	HEAT DETECTOR
	SURFACE MOUNTED 1'x4' FLORESCENT LIGHT FIXTURE
	3- PHASE HOME RUN (3) #12 + (1) #12 G UNO
	KEY NOTE
	(RL) REMOVE & RELOCATE
	(E) EXISTING TO REMAIN
	(ER) RELOCATED ITEM AT NEW LOCATION

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS LICENSED IN THE STATE OF MAINE.
- BRANCH CIRCUIT WIRING NOT SHOWN. CONNECT ITEMS TO CIRCUITS INDICATED.
- DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 16 AND OTHER DIVISIONS.
- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.
- THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS, IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
- COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.
- VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN.
- POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 16. CONTROL WIRING FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 15.
- NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.

A1 PIPING LINETYPE LEGEND **A4 ABBREVIATIONS** **A8 ELECTRICAL LEGEND, ABBREVIATIONS & GENERAL NOTES**

ISSUED FOR PRICING
FEB. 03, 2005

MECHANICAL / ELECTRICAL DEMO & PART PLANS

UNUM PROVIDENT
 DAYCARE CENTER ~ KITCHEN HOOD REPLACEMENT
 PORTLAND, MAINE

REVISIONS

NO.	DESCRIPTION	DATE

Date: 2-02-05
 Drawn By: SCL
 Checked By: ASD
 Project No.: 04111
 Coord File: 04111.DWG
 Graphic Scale: 0 1"