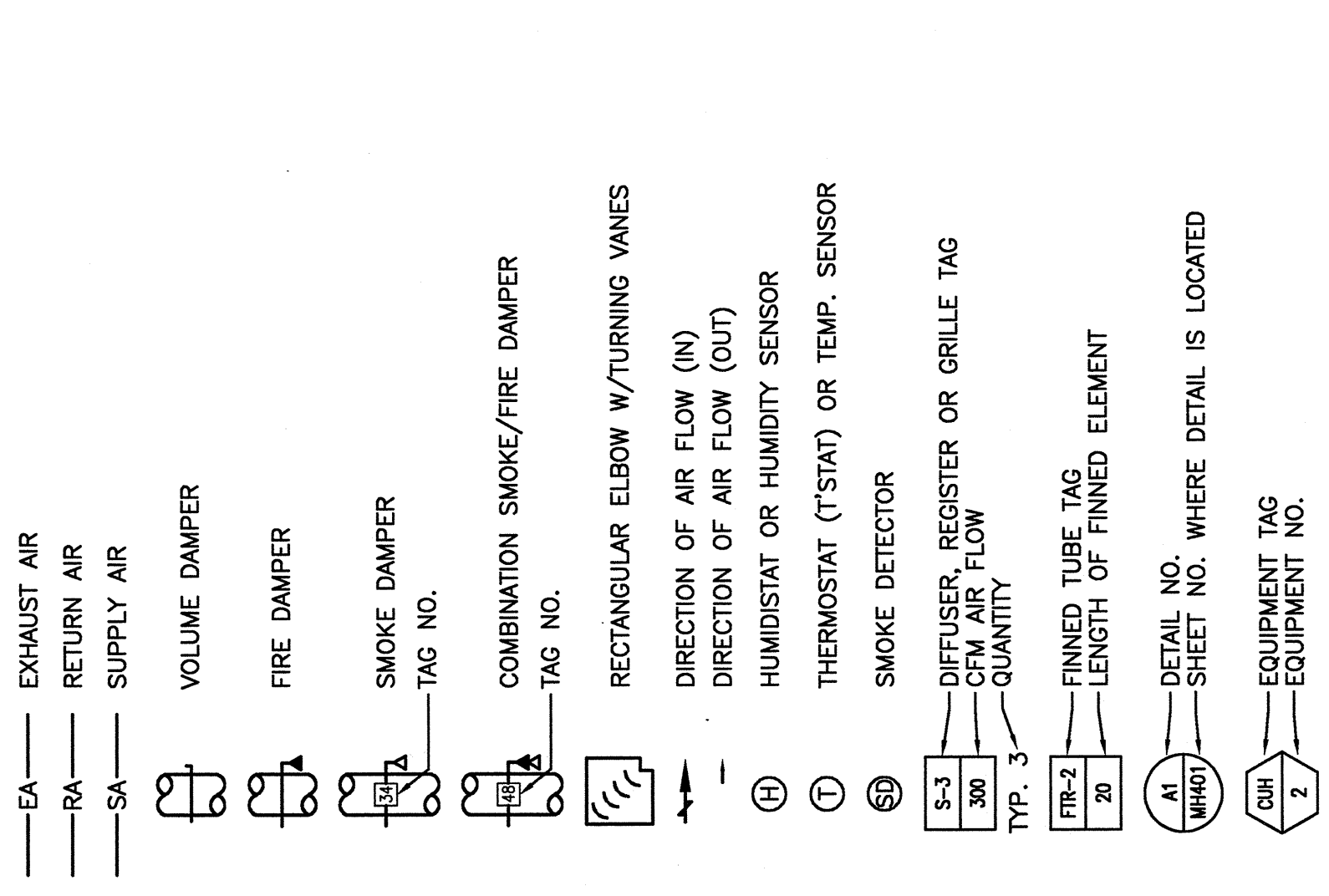
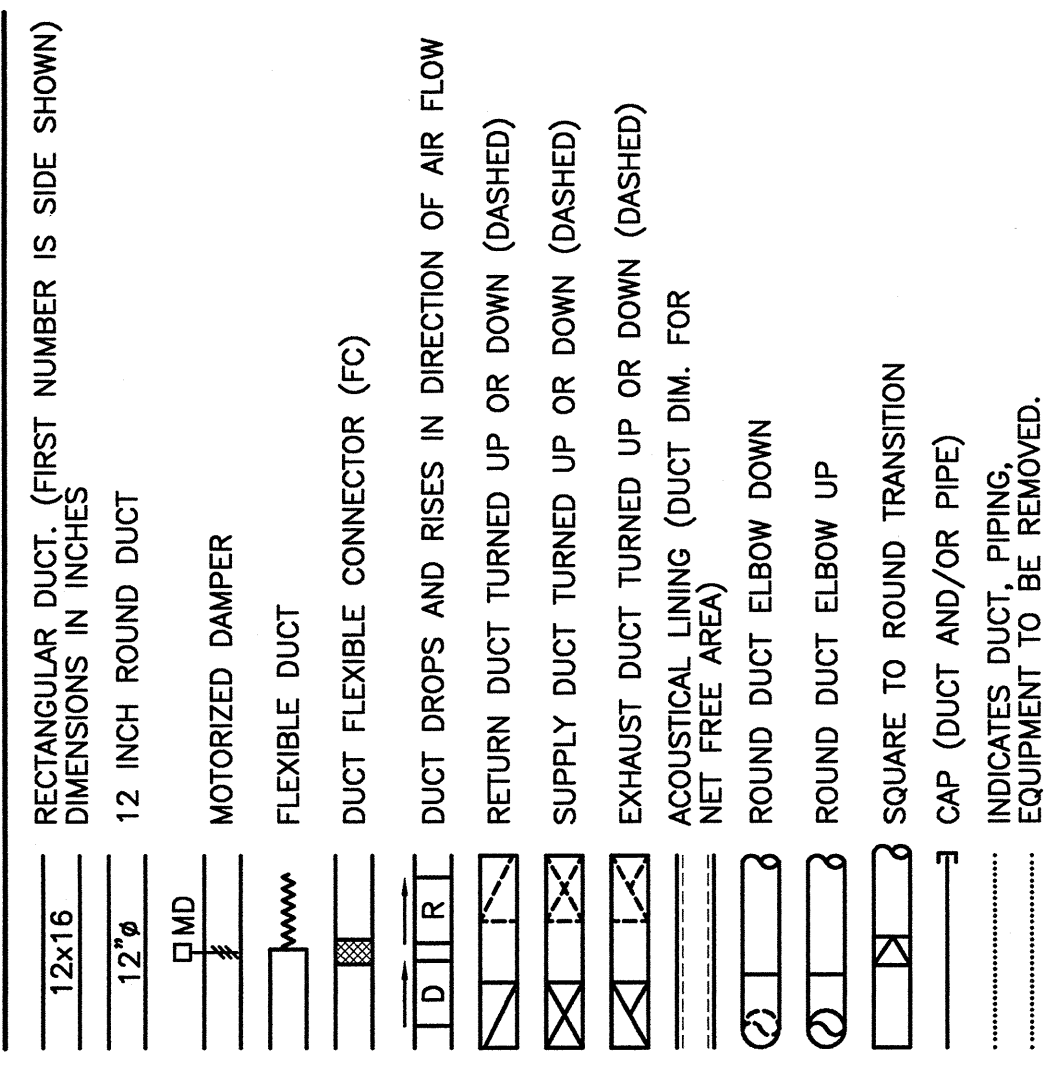
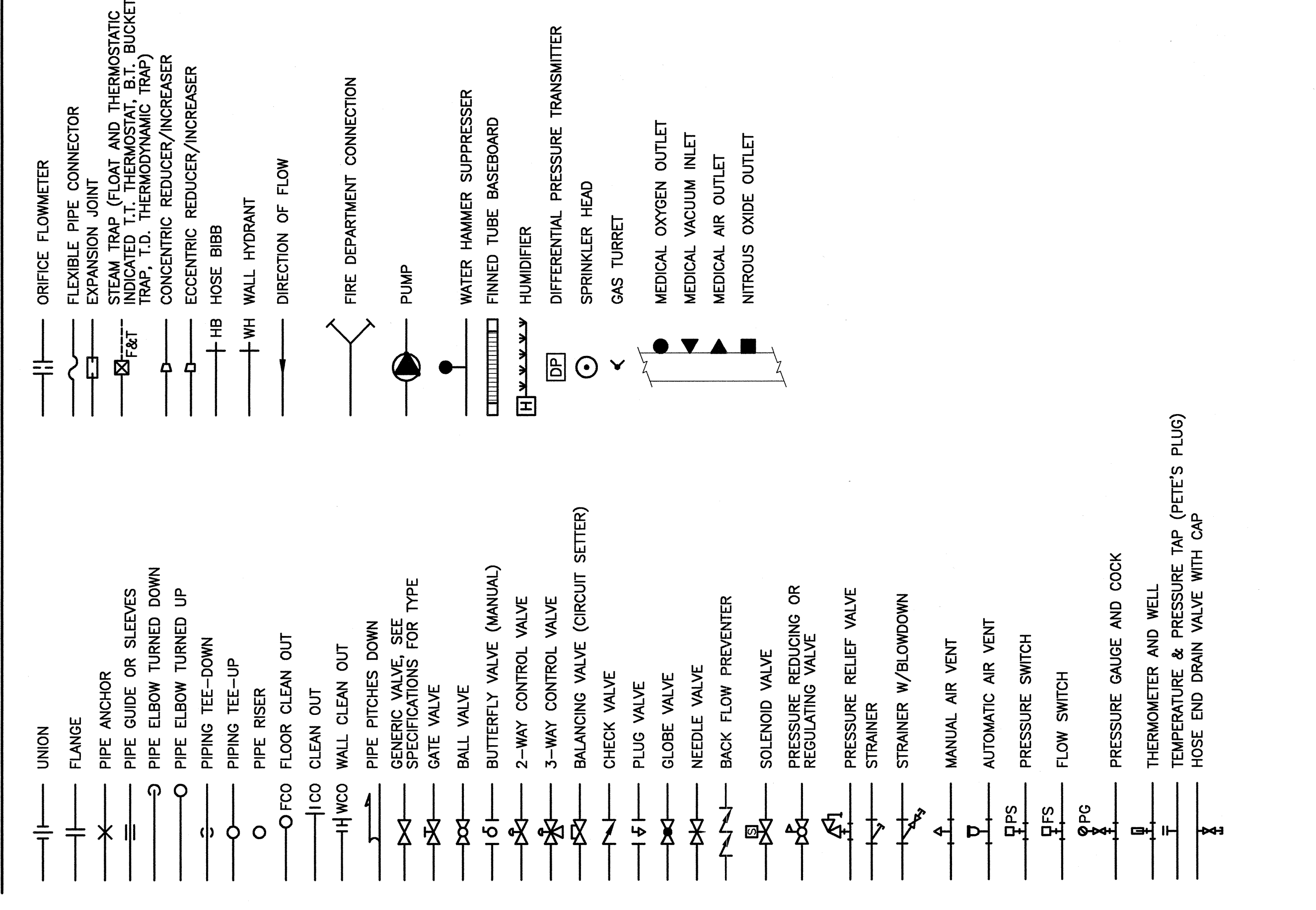


### AIR DISTRIBUTION SYMBOLS



### PIPING SYMBOLS



### ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	DIW	DOWN IN WALL	OA	OUTSIDE AIR
ACC	AIR COOLED CONDENSER	DN	DOWN	OBD	OPPOSED BLADE DAMPER
ACU	AIR CONDITIONING UNIT	DS	DOWNSPOUT	OED	OPEN ENDED DUCT
AD	ACCESS DOOR	DT	DROP AND TRANSITION	P-#	PLUMBING FIXTURE TAG
AE	ACID EXHAUST	DWH	DRAWING	PAE	PROCESS ACID EXHAUST
AF	ABOVE FINISHED FLOOR	DWG	DOMESTIC WATER HEATER	PHE	PROCESS HEAT EXHAUST
AFMS	AIR FLOW MEASURING STATION	EA	EXHAUST AIR	PSE	PROCESS SOLVENT EXHAUST
AHU	AIR HANDLING UNIT	EF	EXHAUST FAN	PP	POLY-PROPYLENE
AP	ACCESS PANEL	ENC	ENCLOSURE	PPE	PRE PURCHASED EQUIPMENT
ATC	AUTOMATIC TEMPERATURE CONTROL	ER	EXHAUST REGISTER	PRS	PRESSURE REDUCING STATION
AV	AIR VENT	(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
BA	BREATHING COMPRESSED AIR	EXIST.	EXISTING	PVD	PNEUMATIC VOLUME DAMPER
BB	BASEBOARD	FBO	FURNISHED BY OWNER	(R)	REMOVE
BD	BACKDRAFT DAMPER	FBP	FACE AND BYPASS	RA	RETURN AIR
BG	BLAST GATE	FC	FLEXIBLE CONNECTION	RD	ROOF DRAIN
BFP	BACKFLOW PREVENTER	FCO	FLOOR CLEANOUT	(REL.)	RELOCATED
BLDG	BUILDING	FD-#	FLOOR DRAIN TAG	RF	RETURN FAN
BOD	BOTTOM OF DUCT	FD	FIRE DAMPER	RG	RETURN GRILLE
BOP	BOTTOM OF PIPE	FG	FIBERGLASS	RHC	REHEAT COIL
BTU	BRITISH THERMAL UNIT	F & T	FLOAT AND THERMOSTATIC	RM	ROOM
CBQ	COUNTER BALANCED DAMPER	FO	FLAT OVAL	RPZ	REDUCED PRESSURE ZONE BFP
CD	CEILING DIFFUSER	FRHB	FREEZE RESISTANT HOSE BIBB	RR	RETURN REGISTER
CFE	CAPPED FOR FUTURE	FTR	FINNED TUBE RADIATION	RV	RELIEF VALVE
CFM	CUBIC FEET PER MINUTE	FS	FLOW SWITCH	SA	SUPPLY AIR
CLG	CEILING	GC	GENERAL CONTRACTOR	SCV	SELF CONTAINED VALVE
CO	CLEANOUT	GPM	GALLONS PER MINUTE	SD	SMOKE DETECTOR
CONT	CONTINUATION	H	HUMIDIFIER	SF	SUPPLY FAN
COORD	COORDINATE	HB	HOSE BIB	SG	SUPPLY GRILLE
CP	CONDENSATE PUMP & RECEIVER	HRU	HEAT RECOVERY UNIT	SR	SUPPLY REGISTER
CT	COOLING TOWER	HTR	HEATER	SS	STAINLESS STEEL
CTE	CONNECT TO EXISTING	H & V	HEATING AND VENTILATION	TE	TEMPERATURIZED ELEMENT (SENSOR)
CU	COPPER	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	TG	TRANSFER GRILLE
CUH	CABINET UNIT HEATER	HW	HOT WATER	TOD	TOP OF DUCT
CV	CONTROL VALVE	HX	HEAT EXCHANGER	TOP	TOP OF PIPE
CW	COLD WATER	IN WG	INCHES WATER GAUGE	TTS	TIGHT TO STEEL
CW-P	CITY WATER-PROCESS	LD	LINED DUCT	TV	TURNING VANE(S)
DC	DOUBLE CONTAINED	MAU	MAKE UP AIR UNIT	TYP	TYPICAL
DDC	DIRECT DIGITAL CONTROL	MAX	MAXIMUM	UH	UNIT HEATER
DIA	DIAMETER	MBH	1000 BTU/HR.	UIC	UP IN CHASE
DIC	DOWN IN CHASE	ME	MECHANICAL ENGINEER	UIW	UP IN WALL
		MFR	MANUFACTURER	UV	UNIT VENTILATOR
		MIN	MINIMUM	VAV	VARIABLE AIR VOLUME BOX
		MD	MOTOR OPERATED DAMPER	VB	VACUUM BREAKER
		MPY	MULTI-PURPOSE VALVE	VTR	VENT THRU ROOF
		MTD	MOUNTED	VD	MANUAL VOLUME DAMPER
		MUA	MAKE UP AIR	VOFF	VALVED AND CAPPED FOR FUTURE
		NPW	NON-POTABLE WATER	VOC	VOLATILE ORGANIC COMPOUNDS
		NTS	NOT TO SCALE	VFD	VARIABLE FREQUENCY DRIVE
		P-#	PLUMBING FIXTURE TAG	W/	WITH
		PEA	ALKALI EXHAUST	WCO	WALL CLEANOUT
		PEH	HEAT EXHAUST	WH	WALL HYDRANT

### PIPING SYSTEMS

10:1 HF	10:1 HF	GRV	GRAVITY STEAM CONDENSATE RETURN	MV	MEDICAL VACUUM	TWS	TEMPERED CHILLED WATER SUPPLY
AV	ACID VENT	N2NP	NON-PROCESS NITROGEN	N2	PROCESS NITROGEN	TWR	TEMPERED CHILLED WATER RETURN
AD	ACID DRAIN	NG	NATURAL GAS	NG	NATURAL GAS	VAC	PLANT VACUUM
AD	ACID DRAIN (BELOW SLAB)	HNG	HIGH PRESSURE NATURAL GAS	HNG	HIGH PRESSURE NATURAL GAS	ZB	ZONE VALVE BOX
BA	BREATHING AIR	NO2	NITROUS OXIDE	NO2	NITROUS OXIDE	TEMP	TEMPERATURE (TEMP °F)
CD	CONDENSATE DRAIN	NEG. SOLV.	NEGATIVE SOLVENT DRAIN	NEG. SOLV.	NEGATIVE SOLVENT DRAIN	TEMP	TEMPERATURE (TEMP °F)
CDA	COMPRESSED DRY AIR	NPW	NON POTABLE COLD WATER	NPW	NON POTABLE COLD WATER	RECIRC.	RECYCLED DOMESTIC HOT WATER (TEMP °F)
CHWS	CHILLED WATER SUPPLY	O2	OXYGEN	O2	OXYGEN	DOMESTIC	DOMESTIC COLD WATER
CHWR	CHILLED WATER RETURN	OFA	OIL FREE COMPRESSED AIR	OFA	OIL FREE COMPRESSED AIR	DOMESTIC	DOMESTIC HOT WATER
CWS	CONDENSER WATER SUPPLY	POWR	PUMPED STEAM CONDENSATE	PC	PUMPED STEAM CONDENSATE	RCW	RE-CIRCULATED DOMESTIC HOT WATER
CWR	CONDENSER WATER RETURN	PD	PUMPED DISCHARGE	PD	PUMPED DISCHARGE	S, W or KW	SANITARY, WASTE & KW KITCHEN WASTE
DB	DISTRIBUTION VALVE BOX	POS. SOLV.	POSITIVE SOLVENT DRAIN	POS. SOLV.	POSITIVE SOLVENT DRAIN	S, W or KW	SANITARY, WASTE & KW KITCHEN WASTE (EXIST.)
DIS	DEIONIZED WATER SUPPLY	PW	POTABLE WATER	PW	POTABLE WATER	S, W or KW	SANITARY, WASTE & KW KITCHEN WASTE (BELOW SLAB)
DIR	DEIONIZED WATER RETURN	R	RELIEF LINE	R	RELIEF LINE	SD	STORM DRAIN
EXCD	EYEWASH	RS	REFRIGERANT LIQUID	RS	REFRIGERANT LIQUID	SD	STORM DRAIN (EXIST.)
ESEW	EYEWASH	LPS	LOW PRESSURE STEAM	LPS	LOW PRESSURE STEAM	SD	STORM DRAIN (BELOW SLAB)
FCS	FREE COOLING SUPPLY	LPR	LOW PRESSURE RETURN	LPR	LOW PRESSURE RETURN	SD	STORM DRAIN (BELOW SLAB-EXIST.)
FCR	FREE COOLING RETURN	MA	MEDICAL AIR	MA	MEDICAL AIR	V	SANITARY VENT
FOS	FUEL OIL SUPPLY	MPS	MEDIUM PRESSURE STEAM	MPS	MEDIUM PRESSURE STEAM	V	SANITARY VENT (EXIST.)
FOR	FUEL OIL RETURN	MPR	MEDIUM PRESSURE RETURN	MPR	MEDIUM PRESSURE RETURN	V	SANITARY VENT (BELOW SLAB)
FOV	FUEL OIL VENT			SP	SPRINKLER	V	SANITARY VENT (BELOW SLAB-EXIST.)

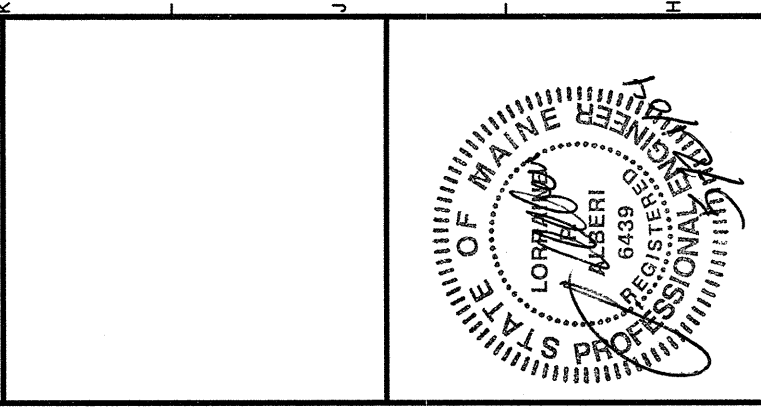
### GENERAL NOTE

1. ALL GENERAL NOTES, SYMBOL LISTS, 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.

### LEGEND AND ABBREVIATIONS

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 PROJECT NO. M-001-03145  
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**UNIMPROVEMENT CORPORATION**  
 HOII SECURITY DOORS  
 PORTLAND, MAINE  
 ISSUED FOR CONSTRUCTION 5-21-04  
 PROJECT TITLE: PROJECT TITLE:  
 CURRENT ISSUE STATUS: PROJECT TITLE:  
 DATE: 5-21-04  
 DESCRIPTION: PROJECT TITLE:  
 REVISIONS: PROJECT TITLE:

SCALE: NOT TO SCALE  
 PROJECT MANAGER: J.H.H.  
 ARCHITECT: R.L.J./B.G.G.  
 DATE OF RECORD: M-001-03145  
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