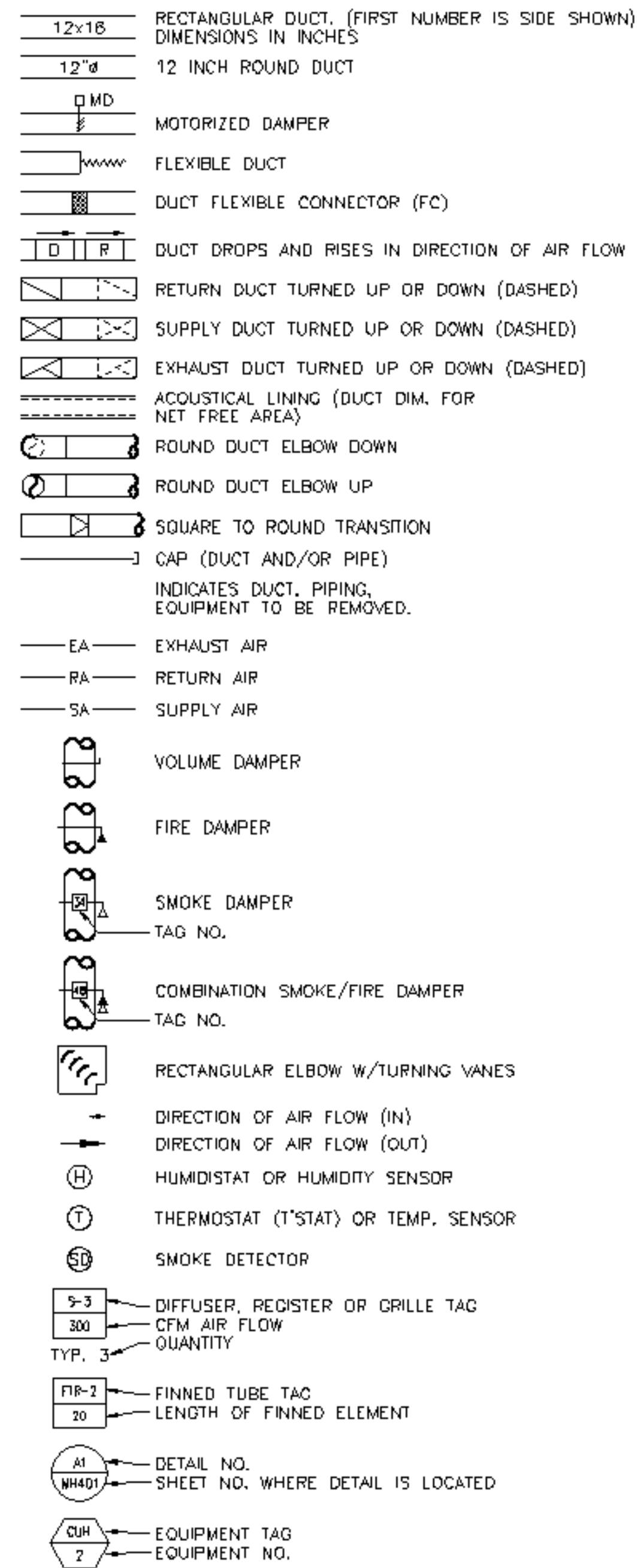
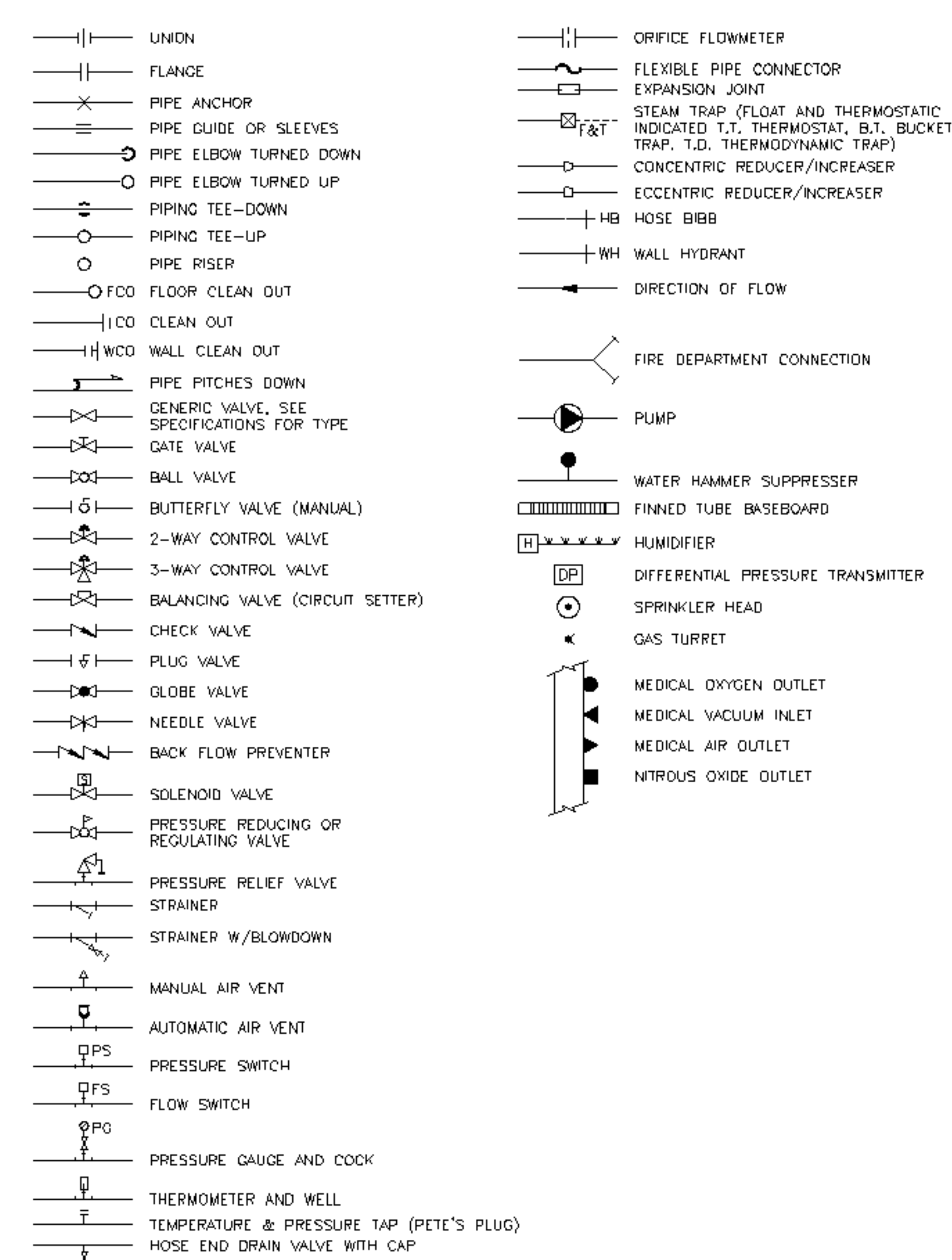


AIR DISTRIBUTION SYMBOLS



PIPING SYMBOLS



ABBREVIATIONS

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

PIPING SYSTEMS

10:1 HF 10:1 HF	HCV HOUSE CLEAN VACUUM	PW POTABLE WATER
AV ACID VENT	HC HOT GAS	R RELIEF LINE
AD ACID DRAIN	HPS HIGH PRESSURE STEAM	RL REFRIGERANT LIQUID
AD ACID DRAIN (BELOW SLAB)	HPR HIGH PRESSURE CONDENSATE RETURN	RS REFRIGERANT SUCTION
BA BREATHING AIR	HWS HOT WATER SUPPLY	SLO MIXED SOLVENT DRAIN
CD CONDENSATE DRAIN	HWR HOT WATER RETURN	SV SOLVENT
CDA COMPRESSED DRY AIR	IAD ISOPROPYL ALCOHOL DRAIN	SP SPRINKLER
CHWS CHILLED WATER SUPPLY	LP LIQUID PROPANE GAS	TWS TEMPERED CHILLED WATER SUPPLY
CHWR CHILLED WATER RETURN	HLP HIGH PRESSURE LIQUID PROPANE GAS	TWR TEMPERED CHILLED WATER RETURN
CWS CONDENSER WATER SUPPLY	LPS LOW PRESSURE STEAM	VAC PLANT VACUUM
CWR CONDENSER WATER RETURN	LPR LOW PRESSURE RETURN	ZB ZONE VALVE BOX
DB DISTRIBUTION VALVE BOX	MA MEDICAL AIR	TEMP DOMESTIC HOT WATER (TEMP °F)
DIS DEIONIZED WATER SUPPLY	MPS MEDIUM PRESSURE STEAM	TEMP RECIRC. DOMESTIC HOT WATER (TEMP °F)
DIR DEIONIZED WATER RETURN	MPR MEDIUM PRESSURE RETURN	CW DOMESTIC COLD WATER
EKCD EKC DRAIN	MV MEDICAL VACUUM	HW DOMESTIC HOT WATER
ESEW EYEWASH	N2NP NON-PROCESS NITROGEN	RCW RECIRCULATED DOMESTIC HOT WATER
FCS FREE COOLING SUPPLY	N2 PROCESS NITROGEN	S, W or KW S SANITARY, W WASTE & KW KITCHEN WASTE
FCR FREE COOLING RETURN	NG NATURAL GAS	S, W or KW S SANITARY, W WASTE & KW KITCHEN WASTE (EXIST.)
FOS FUEL OIL SUPPLY	HNG HIGH PRESSURE NATURAL GAS	S, W or KW S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB)
FOR FUEL OIL RETURN	NO2 NITROUS OXIDE	S, W or KW S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB-EXIST.)
FOV FUEL OIL VENT	NEC SOLV NEGATIVE SOLVENT DRAIN	SD STORM DRAIN
GCR GRAVITY STEAM CONDENSATE RETURN	NPW NON POTABLE COLD WATER	SD STORM DRAIN (EXIST.)
GLY GLYCOL	O2 OXYGEN	SD STORM DRAIN (BELOW SLAB)
GV GAS VENT	OFA OIL FREE COMPRESSED AIR	SD STORM DRAIN (BELOW SLAB-EXIST.)
H HYDROGEN	PCWR PROCESS COOLING WATER RETURN	V SANITARY VENT
H2O2 HYDROGEN PEROXIDE	PC PUMPED STEAM CONDENSATE	V SANITARY VENT (EXIST.)
HCR HOT/ CHILLED WATER RETURN	PD PUMPED DISCHARGE	V SANITARY VENT (BELOW SLAB)
HCS HOT/ CHILLED WATER SUPPLY	POS. SOLV POSITIVE SOLVENT DRAIN	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.

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SHEET TITLE:	SCALE: NOT TO SCALE	DATE: 3-10-05
PROJECT MANAGER: JLH	GRAPHIC SCALE: 0"	1"
JOB CAP/DRAWN: CEB/CAH	A/E OF RECORD: FWJ	SHEET No. M-001
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