MECHANICAL / PLUMBING SYMBOLS AND ABBREVIATIONS					
PLUMBING			ABBREVIATIONS		
COLD WATER	BFW BOILER FEED WATER BOILER FEED WATER EMERGENCY BOILER FEED WATER		AD AREA DRAIN IN AFC AUTOMATIC FLOW CONTROL LA	IV. EL. INVERT ELEVATION AT LEAVING AIR TEMPERATURE	
HOT WATER		FINNED TUBE RADIATION IN COVER		AV LAVATORY	
HOT WATER RETURN	LPS LOW PRESSURE STEAM	BARE PIPE IN COVER		BH 1000 BTU/HOUR ECH MECHANICAL	
——————————————————————————————————————	MPS MEDIUM PRESSURE STEAM	RADIATION COVER ONLY		H MANHOLE	
——————————————————————————————————————	HIGH PRESSURE STEAM		AP ACCESS PANEL M		
	LOW PRESSURE CONDENSATE RETURN	DUCT SYMBOLS	AS AIR SEPARATOR M BD BLOWDOWN M	S MOP SINK UV AUTOMATIC MAKE-UP VALVE	
	MPR MEDIUM PRESSURE CONDENSATE RETURN	VOLUME DAMPER	BDD BACKDRAFT/PRESSURE RELIEF DAMPER N	C NORMALLY CLOSED	
TEMPERED WATER	HIGH PRESSURE CONDENSATE RETURN		BTU BRITISH THERMAL UNIT N BV BALANCE VALVE O		
COLD SOFT WATER	PD——PD——— CONDENSATE PUMP DISCHARGE			BD OPPOSED BLADE DAMPER	
	CONDENSATE RETURN	RETURN OR EXHAUST DUCT UP		D OUTSIDE DIAMETER	
	FLOAT & THERMOSTATIC TRAP			FD OVERFLOW DRAIN SD OPEN SITE DRAIN	
				FHX PLATE AND FRAME HEAT EXCHANGER	
NPW		RETURN OR EXHAUST DUCT DOWN		IV POST INDICATOR VALVE LBG PLUMBING	
GAS GAS	HVAC PIPING			RV PRESSURE REDUCING VALVE	
A AIR (WITH PSI)	CS-CS-CONDENSER WATER SUPPLY	INTERNAL LINED DUCT		UH PROPELLER UNIT HEATER	
STORM WATER (SUSPENDED)	CR-CONDENSER WATER RETURN			A RETURN AIR CP RADIANT CEILING HEATING PANEL	
STORM WATER (BURIED)		FD FIRE DAMPER (FD) IN DUCT	DIFF DIFFUSER R	CNP REINFORCED CONCRETE PIPE	
			DS DOWNSPOUT R DXC DIRECT EXPANSION COOLING COIL R	D ROOF DRAIN ECIRC RECIRCULATING	
SANITARY WASTE (BURIED)	GROUND LOOP WATER SUPPLY	FSD (FSD) IN DUCT	EA EXHAUST AIR R		
— — — — — SANITARY VENT LINE	GROUND LOOP WATER SUPPLY			PZ REDUCED PRESSURE BACKFLOW PREVENTER	
DRAIN LINE	HEATING WATER SUPPLY	SD SINGLE DYNN ER (62) NY DOOT	EBBR ELECTRIC BASE BOARD RADIATION R EC ELECTRICAL CONTRACTOR R	R RETURN REGISTER IV ROOF INTAKE VENT	
		ACCESS PANEL	EG EXHAUST GRILLE R	RV ROOF RELIEF VENT	
â	HR HEATING WATER RETURN			A SUPPLY AIR AN SANITARY	
GAS METER	FOS FUEL OIL SUPPLY	FIRE PROTECTION SYSTEM		D SMOKE DAMPER	
WATER METER	FOR FUEL OIL RETURN	PENDANT SPRINKLER HEAD		G SUPPLY GRILLE	
{ RPBP (REDUCED PRESSURE RPZ BACKFLOW PREVENTER)	FOV FUEL OIL VENT	O UPRIGHT SPRINKLER HEAD	ELEV ELEVATION S EOM END OF MAIN DRIP S	HDR SHOWER DRAIN K SINK	
· · · · · ·	RD		EPUH ELECTRIC PROPELLER UNIT HEATER S	R SUPPLY REGISTER	
PIPE FITTINGS	REFRIGERANT SUCTION	CONCEALED SPRINKLER HEAD		S STAINLESS STEEL THX SHELL AND TUBE HEAT EXCHANGER	
C ELBOW UP	REFRIGERANT LIQUID	FIRE PROTECTION PIPING		CC TEMPERATURE CONTROL CONTRACTOR	
C ELBOW DOWN		DSDRY STANDPIPE		CP TEMPERATURE CONTROL PANEL	
TEE UP	DTS DUAL TEMPERATURE SUPPLY	DPDRY PIPE SPRINKLER PIPING		G TRANSFER GRILLE O TRANSFER OPENING	
TEE DOWN	DUAL TEMPERATURE RETURN	PRE-ACTION SPRINKLER PIPING	EXTG, E. EXISTING TI		
	VALVES		FD FLOOR DRAIN OR FIRE DAMPER T FPVAV FAN POWERED VAV U	YP TYPICAL R URINAL	
		WP WET FIRE PROTECTION PIPING		AV VARIABLE AIR VOLUME	
	SHUT-OFF VALVE		,		
END CAP	VERTICAL SHUT-OFF/NEEDLE VALVE	SIAMESE HOSE CONNECTION		FD VARIABLE FREQUENCY DRIVE S VENT STACK	
	BALANCING VALVE			TR VENT THRU ROOF	
		PIV POST INDICATOR VALVE	HB HOSE BIBB W HTG HEATING W	WASTE B WET BULB	
	CHECK VALVE			C WATER CLOSET	
FLOW ARROW	PRESSURE REDUCING VALVE	ES		'H WALL HYDRANT IS WASTE STACK	
PIPE ANCHOR		FLOW SWITCH		S WASIE STACK	
EXPANSION JOINT	MAKEUP WATER VALVE	ALARM CHECK VALVE	TEMPERATURE CONTROL/MONITORING	DRAWING NOTATIONS	
	FLOW CONTROL VALVE		ROOM THERMOSTAT (HEAT)	← DENOTED ← SIZE_OF	
PIPE ALIGNMENT GUIDES	l l	MEDICAL		EXISTING / PIPE OR	
	SAFETY/PRESSURE RELIEF VALVE			WORK DUCT	
	AUTOMATIC AIR VENT	G GAS OUTLET O OXYGEN OUTLET	C ROOM THERMOSTAT (COOL)	CONNECTION 8"E.	
PIPE PITCH ARROW (DOWN IN ARROW DIRECTION)		MA MEDICAL AIR OUTLET	DUCT THERMOSTAT (PNEUMATIC)		
PRESSURE GAUGE	TEMP/PRESSURE RELIEF VALVE	NITROGEN OUTLET	DUCT THERMOSTAT (ELECTRIC)		
\Diamond	CONTROL VALVE (TCV)	NITROUS OXIDE OUTLET	HUMIDISTAT	NEW WORK EXISTING	
AUTOMATIC AIR VENT	3-WAY CONTROL VALVE	VACUUM OUTLET	CO2 CARBON DIOXIDE SENSOR		
COMPOUND GAUGE		S SLIDE	FS	SECTIONS AND DETAILS	
.T.		MA MEDICAL AIR	FLOW SWITCH	- SECTION OR ELEVATION	
		NITROGEN	TEMPERATURE SENSOR	NUMBER	
	REFRIGERATION VALVES/FITTINGS				
			FLOW METER		
ELBOW	Sight glass	VVACUUM LINE	M	SHEET NUMBER OF SECTION OR ELEVATION	
TEE		ACID WASTE (SUSPENDED)			
O ^{CO} CLEANOUT		ACID WASTE (BURIED)	DIFFERENTIAL PRESSURE TRANSMITTER		
	evaporator pressure regulator		PETE'S PLUG	DETAIL (LETTER)	
FD FLOOR DRAIN				$ $ $\langle \cdot \rangle$	
T THERMOMETER	MANUAL REFRIGERATION VALVE	AV ACID VENT	VFD VARIABLE FREQUENCY DRIVE		
	THERMOSTATIC EXPANSION VALVE	DIDEIONIZED WATER	TCP TEMPERATURE CONTROL PANEL	SHEET NUMBER OF DETAIL LOCATION	
				DETAIL COORTION	

GENERAL NOTES:

- 1. THESE NOTES APPLY TO EACH AND EVERY DRAWING IN THIS SET.
- 2. ALL NEW WORK IS DRAWN DARK. ALL WORK DRAWN LIGHT AND FOLLOWED BY (E.) IS EXISTING. ALL WORK SHALL REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
- 3. FIELD VERIFY ALL EXISTING CONDITIONS AS TO EXACT SERVICE, LOCATION, TYPE OF MATERIAL, ETC. BEFORE BIDDING AND BEFORE BEGINNING RENOVATION WORK.
- COORDINATE ALL SHUT-DOWNS, DELIVERY AND STORAGE OF MATERIALS, ETC. WITH OWNERS REPRESENTATIVE.
- CONTRACTORS SHALL PROTECT ALL EXISTING OWNER FACILITIES DURING CONSTRUCTION. ANY AND ALL OWNER FACILITIES DAMAGED OR DISCONNECTED BY CONTRACTOR OPERATIONS SHALL BE FULLY RESTORED TO PREVIOUS OPERATING AND APPEARANCE CONDITION BY CONTRACTOR.
- 6. ADDITIONAL GENERAL NOTES SPECIFIC TO A PARTICULAR DRAWING ARE NOTED ON THOSE DRAWINGS.
- THOROUGHLY REVIEW ALL DRAWINGS PRIOR TO ANY DEMOLITION WORK. ANY DEVICES REMOVED ACCIDENTALLY WILL BE REPLACED AT NO ADDITIONAL COST TO OWNER.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR CORE DRILLING AND CUTTING HOLES THRU WALLS, FLOOR OR ROOF AS REQUIRED TO INSTALL NEW PIPING, DUCTWORK, ETC. WHETHER SHOWN OR NOT. PROVIDE SLEEVES FOR ALL PIPING AND CONDUIT THAT PENETRATE FULL HEIGHT WALLS.
- 9. SMOKING, ALCOHOL, DRUGS, WEAPONS AND CONTRABAND ARE STRICTLY FORBIDDEN ON THIS PROPERTY.
- 10. DISPOSAL OF DEMOLISHED MATERIALS SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- PROVIDE 24/24 ACCESS PANELS IN HARD CEILINGS WHEREVER ACCESS IS REQUIRED TO INSTALL OR SERVICE MECHANICAL EQUIPMENT.
- 12. CONTRACTOR SHALL PROVIDE MATERIALS AS REQUIRED TO PROTECT SURFACE OF EXISTING FINISHED FLOORS. PROVIDE PROTECTION UNDER WHEELS OF SCAFFOLDS, LIFTING DEVICES AND ANY OTHER EQUIPMENT THAT COULD DAMAGE THE EXISTING FLOOR FINISHES.
- 13. FIELD VERIFY EXACT SIZES OF EXISTING PIPING SYSTEMS SHOWN TO BE CONNECTED TO. IN THE EVENT ACTUAL SIZE IS DIFFERENT THAN SHOWN ON DRAWING, CONTACT ENGINEER FOR DIRECTION PRIOR TO ANY WORK.
- 14. NOTIFY THE OWNER A MINIMUM OF 72 HOURS PRIOR TO ANY SHUT-DOWN OR SERVICE INTERRUPTION. NOTIFICATION REQUIRED FOR ALL SHUT-DOWNS REGARDLESS OF SYSTEM(S) AFFECTED OR THEIR EXPECTED DURATIONS.
- 15. REMOVE AND REPLACE CEILINGS, LIGHT FIXTURES ETC. AS REQUIRED TO INSTALL MECHANICAL AND PLUMBING SYSTEMS. REPAIR TO PREVIOUS (OR BETTER) CONDITION. COORDINATE WITH 'A' SERIES DRAWINGS.
- 16. ALL WIRING AND/OR TUBING TO THERMOSTATS SHALL BE ROUTED CONCEALED. WIREMOLD IS NOT ACCEPTABLE. COORDINATE THERMOSTAT LOCATIONS WITH G.C. PRIOR TO WALL CONSTRUCTION.
- 17. MOUNT THERMOSTATS AT 56" A.F.F. UNLESS NOTES OTHERWISE.
- 18. COLORS OF EXPOSED UNITS SHALL BE SELECTED BY ARCHTECT. COLORS SHALL BE MANUFACTURER'S STANDARD OR CUSTOM COLOR AS REQUESTED. SUBMIT COLOR CHARTS WITH SHOP DRAWINGS.
- 19. ALL UNDERLINED EQUIPMENT IS SCHEDULED. SEE M600 SERIES DRAWINGS FOR SCHEDULES.

A MAXIMUM 6 HOUR DOWN-TIME OF PLUMBING SYSTEMS IS ALLOWED.

