














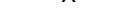









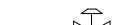















### SINGLE LINE SYMBOLS LEGEND

	HWS	HEATING WATER SUPPLY PIPING	
	HWR	HEATING WATER RETURN PIPING	
	COND	COOLING COIL CONDENSATE PIPING	
	RL	REFRIGERANT LIQUID PIPING	
	RS	REFRIGERANT SUCTION PIPING	
		90 DEGREE PIPE ELBOW DOWN	
		PIPE RISER UP SYMBOL	
		MID-PIPE DOWN	
		PIPE CAP	
		PIPE BREAK	
		PIPE GUIDE	
		UNION	
		FLOW DIRECTION	
		PIPING/DUCTWORK/EQUIPMENT REMOVALS	
		CHECK VALVE	
		SHUTOFF BALL VALVE	
		2-WAY MODULATING CONTROL VALVE	
		2-WAY CONTROL VALVE	
		3-WAY MODULATING CONTROL VALVE	
		GATE VALVE CIRCUIT SETTER BALANCING VALVE - 2-1/2" SIZE AND UP	
		CALIBRATED BALANCE VALVE CIRCUIT SETTER BALANCING VALVE - 2" SIZE AND BELOW	
		PRESSURE REDUCING VALVE	
		3-WAY CONTROL VALVE	
	OR		BUTTERFLY VALVE
		RELIEF VALVE	
		PRESSURE RELIEF VALVE	
		AUTOMATIC AIR VENT	
	OR		PUMP
	OR		PRESSURE GAUGE
	OR		STRAINER
	OR		THERMOMETER
		POINT OF CONNECTION	
		POINT OF DISCONNECTION	
		EXPANSION COMPENSATOR	

ABBREVIATIONS LEGEND			
AC	AIR CONDITIONER	LMTD	LOGARITHMIC MEAN TEMPERATURE DIFFERENCE
ACCU	AIR COOLED CONDENSING UNIT	LWT	LEAVING WATER TEMPERATURE
ADD	ACCESS DOOR	LX	MAXIMUM
AF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUH
AFG	ABOVE GRADE	MC	MOTOR CONTROLLER
AFFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MCA	MINIMUM CIRCUIT AMPACITY
AHU	AIR HANDLER	ME	MECHANICAL EQUIPMENT ROOM
AHD	AIR HANDLING UNIT	MH	MOUNTING HEIGHT
APU	AIR PRESSURE DROP	MD	MOTORIZED DAMPER
AS	AIR SEPARATOR	MIN	MINIMUM
ATS	AIR TRANSFER SLEEVE	MOP	MAXIMUM OVERCURRENT PROTECTION
AVG	AVERAGE SPACE TEMPERATURE	N/A	NOT APPLICABLE
B	BRACK HORSEPOWER	NORMALLY OPEN	NORMALLY OPEN
BM	BAYLEY MIDDLE SCHOOL	MFG	MANUFACTURER
BT	BOTTOM	NG	NATURAL GAS DETECTOR
BTU	BRITISH THERMAL UNIT/SHOOR	NORMALLY OPEN	NORMALLY OPEN
BTU/HF	BRITISH THERMAL UNIT/HOOR/ LINEAR FOOT	NOL	NO OVER LOADING
CAP	CAPACITY	OD	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OAD	OUTSIDE AIR DAMPER
CI	CAST IRON	OED	OPEN END DUCT
CO	CARBON MONOXIDE SENSOR	OSAY	OPEN STEM & Y&OKE
COND	CONDENSATE PIPING	OZ	OUNCE
CONT	CONTINUATION	P	PUMP
CP	STEAM CONDENSATE PUMP/RECEIVER SET	PC	PLUMBING CONTRACTOR
CS	CABINET UNIT HEATER	PC	PRESSURE DROP
CW	DOMESTIC COLD WATER	PG	PROPYLENE GLYCOL
CV	CONVECTOR	PH	PHASE
Cv	VALUE COEFFICIENT	PPM	PARTS PER MILLION
D	DIFFUSER	PRV	PRESSURE REDUCING VALVE
DB	DRY BULB	PSI	POUNDS PER SQUARE INCH
DC	A WEIGHTED DECIBEL LEVEL	PSIG	POUNDS PER SQUARE INCH GAUGE
DCW	DOMESTIC COLD WATER	R	RETURN WATER RADIATION UNIT
DDC	DIRECT DIGITAL CONTROL	RA	RETURN AIR
DEG	DEGREES FAHRENHEIT	RD	RETURN DIFFUSER
DHWR	DOMESTIC HOT WATER RETURN	REF	ROOM EXHAUST FAN
DI	DIAMETER	RF	RELIEF PAN
DN	DOWN	RH	RELATIVE HUMIDITY
DO	DUCT SILENCER	RHG	REFRIGERANT HOT GAS
DWDI	DUAL W/ID, DUAL INLET	RL	REFRIGERANT TON
DR	DRAWING	RLA	RATED LOAD AMP
E	EXHAUST AIR	RP	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	RP	HYDROIC RADIANT HEAT PANEL
EAT	ENTERING AIR TEMPERATURE	RZ	REDUCED PRESSURE ZONE ASSEMBLY
EER	ENTERING DRY BULB	RR	RETURN REGISTER
EEB	ENERGY EFFICIENCY RATIO	RS	REFRIGERANT SUCTION
EF	EXHAUST FAN TAG	RTU	ROOF TOP UNIT
EG	EXHAUST FAN	S	SUPLY AIR HANDLING UNIT
EC	EXHAUST GRILLE	SA	SQUARE AIR
EC	IN-DUCT ELECTRIC HEATING COIL	SF	SQUARE FOOT
EL	EXPANSION LOOP	SD	STATIC DIFFUSER
EL	EXHAUST REGISTER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
ERV	STATIC PLATE ENERGY RECOVERY VENTILATOR	SP	STATIC PRESSURE
EXT	EXTERNAL STATIC PRESSURE	SPS	STATIC PRESSURE SENSOR
EXP	EXPANSION TANK	SR	SHORT RADII
ESP	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
EX	EXISTING	SWSI	SINGLE WIDTH SINGLE INLET
F	FAN	TEMP	TEMPERATURE
°F	FAHRENHEIT	TR	TRANSFER FLUID
FAN	FRESH AIR INTAKE	TR	DUCTWORK TRANSITION
FC	FORWARD CURVED	TSP	TOTAL STATIC PRESSURE
FD	FIRE DAMPER	TYP	TYPICAL
FCU	FAN COIL UNIT	UH	UNIT HEATER
FL	FULL LOAD AMPS	UV	ULTRAVIOLET RAY VOLUME
FLR	FLOOR	VEL	VELOCITY
FLD	FLAT DVA	VERT	VERTICAL
FT	FEET PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
FSD	FIRE SMOKE DAMPER	VRF	VARIABLE REFRIGERANT FLOW
FT	FT IN TUBE	VRV	VARIABLE REFRIGERANT VOLUME
FT	FT OR	W	WATT
FTR	FIN TUBE RADIATION	WB	WET BULB
G	GRILLE	WC	WATER COLUMN
GAL	GALLON	WFO	WATER PRESSURE DROP
GPH	GALLONS PER HOUR	WH	WATER COLUMN

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☐ SED#05-01-08-03-0-002-020 (HIGHVIEW ES)  
☐ SED#05-01-08-03-7-007-002 (Maintenance)  
☒ SED#05-01-08-03-7-012-004 (OEC)  
☐ SED#05-01-08-03-0-001-026 (MILLER ES)  
☐ SED#05-01-08-03-0-004-022 (BARR MS)

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**OEC Building**  
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**Maintenance Building**  
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Nanuet, NY 10954

**Miller Elementary School**  
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Nanuet, NY 10954

**A MacArthur Barr Middle School**  
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No.	Description	Date
1	BID ADDENDUM # 4	02/05/25