

#4

MECHANICAL SYMBOLS - GENERAL	
	NEW PIPING, DUCTWORK, OR EQUIPMENT
	NEW EQUIPMENT
	CONTINUATION FOR DUCTWORK OR PIPING
	TYPE OF EQUIPMENT (AIR HANDLING UNIT) UNIT NUMBER (2ND AIR HANDLER ON THE 3RD FLOOR)
	DRAWING NOTE TAG
	REVISION SYMBOL
	THERMOSTAT OR TEMPERATURE SENSOR TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
	THERMOSTAT/SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE

MECHANICAL SYMBOLS - DUCTWORK		
		DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
		ROUND DUCT DIAMETER
		SUPPLY DUCT UP
		SUPPLY DUCT DOWN
		RETURN OR EXHAUST DUCT UP
		RETURN OR EXHAUST DUCT DOWN
		ACOUSTICAL LINING IN DUCT
		TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
		ACCESS DOOR IN DUCT
		MITERED ELBOW WITH TURNING VANES
		RADIUS ELBOW (INNER RADIUS = WIDTH)
		DUCT SPLIT
		90° BRANCH TAP (USE 45° BOOT, OR CONICAL TAP FOR BRANCH SERVING A SINGLE DIFFUSER/REGISTER ONLY)
		45° BRANCH TAP
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) RADIUS ELBOW TYPE
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) MITERED ELBOW TYPE WITH TURNING VANES
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) BULLHEAD TYPE
		OFFSET (WITH RADIUS ELBOWS)
		SUPPLY REGISTER
		RETURN OR EXHAUST REGISTER
		VOLUME DAMPER
		FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
		MOTORIZED DAMPER W/DUCT ACCESS DOOR
		BRANCH TAKEOFF TO CEILING DIFFUSER/REGISTER

MECHANICAL SYMBOLS - DUCTWORK (CONTINUED)	
	SUPPLY CEILING DIFFUSER (4-WAY BLOW)
	SUPPLY CEILING DIFFUSER (3-WAY BLOW)
	SUPPLY CEILING DIFFUSER (2-WAY BLOW)
	SUPPLY CEILING DIFFUSER (1-WAY BLOW)
	CD-B(500) DIFFUSER TYPE AND CFM (CUBIC FEET PER MINUTE). REFER TO SCHEDULE.
	RETURN CEILING GRILLE OR REGISTER
	COIL HC=HEATING COIL CC=COOLING COIL COIL PHC=PREHEAT COIL
	TRANSFER GRILLES ON BOTH SIDES OF WALL/PARTITION AND SQ. FT. OPENING SIZE
	TRANSFER OPENING IN WALL/PARTITION AND SQ. FT. OPENING SIZE
	FAN (RISER)
	CEILING MOUNTED INLINE EXHAUST FAN (WITH FLEX CONNECTION AT INLET & OUTLET)

NEW YORK STATE CODES & STANDARDS	
<ul style="list-style-type: none">• 2020 BUILDING CODE OF NEW YORK STATE• 2018 INTERNATIONAL BUILDING CODE WITH AMENDMENTS• 2018 INTERNATIONAL PLUMBING CODE WITH AMENDMENTS• 2018 INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS• 2018 INTERNATIONAL FUEL GAS CODE WITH AMENDMENTS• 2018 INTERNATIONAL FIRE CODE WITH AMENDMENTS• 2017 NATIONAL ELECTRICAL CODE (NFPA-70)• LOCAL FIRE DEPARTMENT/FIRE MARSHAL• ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION	
NEW YORK STATE ENERGY CODES	
<ul style="list-style-type: none">• 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS	
REFERENCE STANDARDS	
APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS. <ul style="list-style-type: none">• 2016 NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS• 2018 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS• 2016 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION• 2017 NFPA 70 - NATIONAL ELECTRICAL CODE• 2016 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE• 2018 NFPA 101- LIFE SAFETY CODE• 2018 NFPA 30A- CODE FOR MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES	

MECHANICAL DRAWING LIST	
SHEET NUMBER	SHEET TITLE
M-001	COVER PAGE
M-002	GENERAL NOTES
MD-100	WEBER DRIVE BOILER ROOM DEMOLITION PLAN
M-100	WEBER DRIVE BOILER ROOM PLAN
M-201	DETAILS
M-301	SPECIFICATIONS

MECHANICAL SYMBOL LIST - PIPING		
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		ELBOW TURNED UP
		ELBOW TURNED DOWN
		BOTTOM PIPE CONNECTION
		TOP PIPE CONNECTION
		FLEXIBLE CONNECTION
		BALL VALVE
		GATE VALVE
		GLOBE VALVE
		CHECK VALVE (ARROW INDICATES FLOW DIRECTION)
		AUTOMATIC THREE-WAY CONTROL VALVE
		AUTOMATIC TWO-WAY CONTROL VALVE
		PRESSURE REDUCING VALVE
		PLUG VALVE
		SOLENOID VALVE
		BUTTERFLY VALVE (MANUAL)
		BUTTERFLY VALVE (MOTORIZED)
		CIRCUIT SETTER/BALANCING VALVE
		PIPE GUIDE
		EXPANSION JOINT
		CONCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
		ECCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
		UNION
		CAPPED PIPE
		VALVED AND CAPPED CONNECTION (GATE)
		VALVED AND CAPPED CONNECTION (BALL)
		"Y" TYPE STRAINER WITH BLOW DOWN VALVE
		BASKET TYPE STRAINER
		DUPLEX STRAINER
		PIPE SLEEVE
		VALVE IN VERTICAL PIPE
		PUMP (RISER SYMBOL)

MECHANICAL ABBREVIATIONS	
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
B(500)	DIFFUSER TYPE - REFER TO SCHEDULE
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CHWP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CWP	CONDENSER WATER PUMP
DC	DRY COOLER
DX	DIRECT EXPANSION
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXISTING EQUIPMENT TO REMOVED
ERR	EXISTING EQUIPMENT TO REMOVED AND RELOCATED
EWT	ENTER WATER TEMPERATURE
FXC	FLEXIBLE CONNECTION
FC	FAN COIL
FD	FIRE DAMPER WITH ACCESS DOOR
FLA	FULL LOAD AMPS
FPI	FIN PER INCH
FTR	FIN TUBE RADIATION
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
HZ	HERTZ
IU	INDUCTION UNIT
KW	KILOWATT
KX	KITCHEN EXHAUST
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OED	OPEN END DUCT
PPH	POUNDS PER HOUR
PH	PHASE
PSI	POUND PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
RF	RETURN FAN
SD	SMOKE DETECTOR
TD	TRANSFER DUCT
TAO	TRANSFER AIR OPENING
TR	TOP REGISTER
TX	TOILET EXHAUST
TYP	TYPICAL
VN	VENT
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN



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PORT CHESTER HOUSING
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Job Number:
-

Job Start Date:
6/13/22

Issue:	Date:
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