

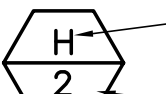
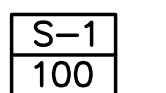

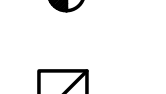



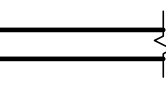








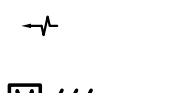






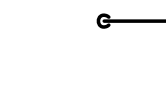
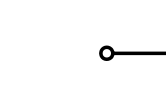
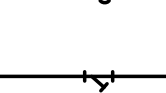
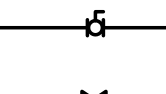
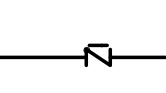

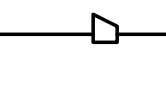
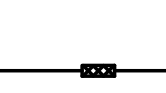





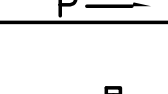
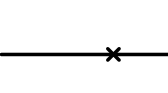
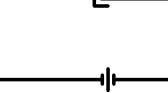
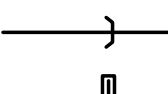
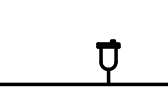
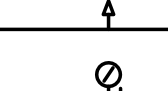
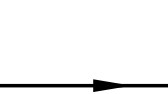













## MECHANICAL ABBREVIATIONS

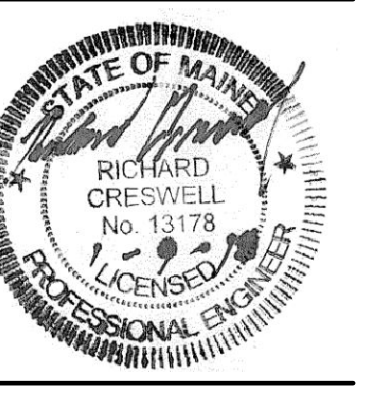
<p>#/HR POUNDS PER HOUR A AMPERE, AIR AC AIR CONDITIONING, AIR CONDITIONER ACI AMERICAN CONCRETE INSTITUTE AD ACCESS DOOR AFF ABOVE FINISHED FLOOR AHU AIR HANDLING UNIT AMB AMBIENT APD AIR PRESSURE DROP APPROX APPROXIMATELY ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS AMERICAN SOCIETY FOR TESTING AND MATERIALS</p> <p>ASTM</p> <p>ASS'Y ASSEMBLY BHP BRAKE HORSEPOWER BLDG BUILDING BTU BRITISH THERMAL UNIT BTUH BTU PER HOUR C CONVECTOR CAP CAPACITY CD CONDENSATE DRAIN CENT CENTRIFUGAL CFM CUBIC FEET/MINUTE CLG CEILING C CENTERLINE CONN CONNECTION CONC CONCRETE COND CONDENSATE, CONDITIONS, CONDENSING COP COEFFICIENT OF PERFORMANCE CP CONDENSATE PUMP CS CURRENT SENSOR CU CONDENSING UNIT D DEPTH, DAMPER DB DRY BULB dB DECIBELS DDC DIRECT DIGITAL CONTROLS DEG DEGREES DIA DIAMETER DIFF DIFFERENTIAL DISCH DISCHARGE DISPL DISPLACEMENT DN DOWN DWG DRAWING DX DIRECT EXPANSION E EXISTING, EXHAUST EA EXHAUST AIR, EACH EAT ENTERING AIR TEMPERATURE EDB ENTERING DRY BULB TEMPERATURE</p>	<p>EER ENERGY EFFICIENCY RATIO EF EXHAUST FAN EFF EFFICIENCY ELEC ELECTRIC ELEV ELEVATION, ELEVATOR EQUIP EQUIPMENT ESP EXTERNAL STATIC PRESSURE EWB ENTERING WET BULB TEMPERATURE EWT ENTERING WATER TEMPERATURE EXIST EXISTING F DEGREES FAHRENHEIT FC FLEX CONNECTOR, FAN COIL, FORWARD CURVED FF FINISH FLOOR FIX FIXTURE FLA FULL LOAD AMPS FLR FLOOR FPM FEET PER MINUTE FT FOOT/FEET GA GAUGE GAL GALLONS GALV GALVANIZED GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GWB GYPSUM WALLBOARD GYP GYPSUM WALLBOARD H HEIGHT H2O WATER HC HEATING COIL HD HEAD HTG HEATING HGT HEIGHT HORIZ HORIZONTAL HP HORSEPOWER HR HOUR HT HEIGHT HV HEATING AND VENTILATION AIR HANDLING UNIT HVAC HEATING, VENTING &amp; AIR CONDITIONING (UNIT) HWR HOT WATER RETURN HWS HOT WATER SUPPLY HZ HERTZ ID INSIDE DIAMETER IN INCHES</p>	<p>KW KILOWATT L LENGTH LAT LEAVING AIR TEMPERATURE LBS POUNDS LDB LEAVING DRY BULB LF LINEAR FEET LOC LOCATION/LOCATED LRA LOCKED ROTOR AMPS LW LOW TEMPERATURE LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATURE MAX MAXIMUM MAX PD MAXIMUM PRESSURE DROP MBH 1000 BTU PER HOUR MBU 1000 BTU MCA MINIMUM CIRCUIT AMPERES MECH MECHANICAL MERV MINIMUM EFFICIENCY REPORTING VALUE MFR MANUFACTURER MIN MINIMUM M MOTOR MTG MOUNTING N/A NOT APPLICABLE N/C NOT IN CONTRACT NC NOISE CRITERIA, NORMALLY CLOSED NO NUMBER, NORMALLY OPEN NPT NATIONAL PIPE THREAD NTS NOT TO SCALE NFPA NATIONAL FIRE PROTECTION ASSOCIATION OA OUTSIDE AIR OAT OUTSIDE AIR TEMPERATURE OBD OPPOSED BLADE DAMPER OC ON CENTER OD OUTSIDE DIAMETER OS&amp;Y OUTSIDE STEM &amp; YOKE P PUMP, PITCH OR PRESSURE PD PRESSURE DIFFERENCE PH PHASE POS POSITIVE PRESS PRESSURE PSI POUNDS PER SQUARE INCH PSIG POUNDS PER SQUARE INCH GAGE PVC POLY VINYL CHLORIDE QTY QUANTITY</p>	<p>R RADIUS, RETURN RA RETURN AIR RAT RETURN AIR TEMPERATURE RF RETURN FAN REFRIG REFRIGERANT REQ'D REQUIRED RH RELATIVE HUMIDITY RL REFRIGERANT LIQUID RLA RUNNING LOAD AMPERES RM ROOM RO RETURN/TRANSFER OPENING RPM REVOLUTIONS PER MINUTE RS REFRIGERANT SUCTION RTU ROOFTOP UNIT S SUPPLY SA SUPPLY AIR SAT SUPPLY AIR TEMPERATURE, SUSPENDED ACOUSTICAL TILE SC SENSIBLE COOLING SEER SEASONAL ENERGY EFFICIENCY RATIO SF SQUARE FOOT, SUPPLY FAN SIM SIMILAR SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION SP STATIC PRESSURE SQ SQUARE T THERMOSTAT, TRANSFER TC TOTAL COOLING TEMP TEMPERATURE, TEMPORARILY TG TRANSFER GRILLE TS TEMPERATURE SENSOR TSP TOTAL STATIC PRESSURE TYP TYPICAL UL UNDERWRITERS LABORATORY V VENT, VALVE, VOLTS VEL VELOCITY W WIDTH, WATTS W/ WITH WB WET BULB WC WATER COLUMN WG WATER GAUGE WPD WATER PRESSURE DROP</p>
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### MECHANICAL LINE TYPE LEGEND

-----	REMOVE ITEMS
_____	EXIST ITEMS TO REMAIN
_____	PROVIDE ITEMS
_____ CD _____	CONDENSATE DRAIN
_____ LPS _____	LOW PRESSURE STEAM
_____ LPR _____	LOW PRESSURE CONDENSATE
_____ RS/RL _____	REFRIGERANT SUCTION AND REFRIGERANT LIQUID

### MECHANICAL SYMBOLS LEGEND

<p> SYMBOL PER ABBREVIATION LIST</p> <p> EQUIPMENT SEQUENCE NUMBER</p> <p> AIR INLET OR OUTLET WITH CFM</p> <p> KEYNOTE</p> <p> CONNECT TO EXISTING</p> <p> RETURN GRILLE/REGISTER</p> <p> SUPPLY DIFFUSER/REGISTER/GRILLE</p> <p> EXHAUST GRILLE/REGISTER</p> <p> SIDEWALL REGISTER/GRILLE</p> <p> ACCESS DOOR ON BOTTOM OF DUCT</p> <p> DUCT</p> <p> FLEXIBLE CONNECTION</p>	<p> RETURN DUCT UP</p> <p> EXHAUST DUCT UP</p> <p> SUPPLY DUCT UP</p> <p> SQUARE ELBOW WITH TURNING VANES</p> <p> FLEXIBLE DUCT</p> <p> CENTRIFUGAL FAN</p> <p> DIRECTION OF AIR FLOW</p> <p> MOTORIZED DAMPER, PARALLEL BLADE</p> <p> MOTORIZED DAMPER, OPPOSED BLADE</p> <p> MOTOR</p> <p> VOLUME DAMPER</p>	<p> ELBOW DOWN</p> <p> PIPE TEE UP OR UP AND DOWN</p> <p> ELBOW UP OR UP AND DOWN</p> <p> PIPE TEE DOWN</p> <p> STRAINER</p> <p> BALL VALVE</p> <p> GATE VALVE</p> <p> CHECK VALVE</p> <p> CHECK VALVE, SPRING TYPE</p> <p> CONCENTRIC REDUCER</p> <p> ECCENTRIC REDUCER</p> <p> VACUUM BREAKER</p> <p> FLEXIBLE CONNECTOR</p>	<p> PIPE PITCH DOWN</p> <p> 2-WAY AUTOMATIC CONTROL VALVE</p> <p> PIPE ANCHOR</p> <p> CAP</p> <p> UNION</p> <p> PIPE REDUCER/INCREASER</p> <p> THERMOMETER</p> <p> AIR VENT, AUTOMATIC</p> <p> AIR VENT, MANUAL</p> <p> PRESSURE GAGE</p> <p> DIRECTION OF FLOW</p>	<p> FLOAT AND THERMOSTATIC STEAM TRAP</p> <p> HEATING COIL</p> <p> BALL VALVE IN VERTICAL</p> <p> TEMPERATURE SENSOR</p> <p> LOW TEMPERATURE FREEZESTAT</p> <p> THERMAL SWITCH</p> <p> CURRENT SENSOR</p> <p> START/STOP CONTROLLER</p> <p> DUCT MOUNTED SMOKE DETECTOR</p>
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DESIGNED BY: RNC  
 DRAWN BY: RDA  
 CHECKED BY: MSA  
 PROJECT: 21702.01

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### MECHANICAL LEGENDS AND ABBREVIATIONS

SCALE: AS NOTED

DATE: 01-09-18

DWG.: **M-001**

SHEET: **9** OF **17**