| HVAC GENERAL NOTES  | GENERAL ABBRE   | EVIATIONS   | PIPING SYMBOLS   | GENERAL SYMBOLS   | DUCTWORK SYMBOLS   |  |
|---|---|---|--|---|--|--|
|   | ABBREVIATIONS DESC  | RIPTIONS SYMBOLS  | ABBREVIATIONS DESCRIPTIONS   | SYMBOLS DESCRIPTIONS  | SYMBOLS DESCRIPTIONS   |  |
| 1. ALL HVAC GENERAL NOTES, SYMBOLS LISTS & DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL HVAC DRAWINGS FOR THIS PROJECT.  2. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXIST. NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, SYSTEMS ENDITED WITH DUE CONSIDERATION OF STRUCTURAL SYSTEMS SHALL NOT BE MODIFIED WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.  3. THE PROJECT SHALL BE PHASED IN ACCORDANCE WITH THE APPROVED PHASING PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE SEQUENCING AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK. SEE SPECIFICATIONS.  4. CONTRACTOR IS TO MAINTAIN SERVICE TO ROOMS OUTSIDE THE PROJECT SCOPE OF WORK AND PHASING SCHEDULE. IF INTERRUPTION OF SERVICE IS REQUIRED COORDINATE SHUTDOWN.  5. CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. RESTORE DAMAGED AREAS THAT ARE BEYOND THE SCOPE OF THIS CONTRACT TO THEIR ORIGINAL CONDITION.  6. WHERE INDICATED ON THE DRAWINGS, REMOVE OR RELOCATE EXISTING COMPONENTS AS REQUIRED TO ACCOMMODATE THE NEW WORK. REMOVALS SHALL INCLUDE ALL ASSOCIATED OFF-SITE DISPOSAL COSTS.  7. COORDINATE REMOVALS AND RELOCATION'S INCLUDING SELECTIVE CUTTING AND PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL AND DELECTRICAL CONTRACTORS.  8. MOST PARTITIONS ARE FULL HEIGHT AND REQUIRE UTILITIES PENETRATIONS OF SEALED, SEE ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. UTILITIES SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WITH ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. UTILITIES SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WITH ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. UTILITIES SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WITH ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD PRACTICE NORMAL TO THE TRADE. INSTALLATION SHALL INCLUDE ALL SHOULD THE NORMAL MAINTERNANCE HERS | AD  AFF  ABOVE FINISH  AFG  ABOVE FINISH  AP  ACCESS PANE  AS  AIR SEPARATIC  AUTOMATIC T  BFP  BOD  BTU  BTUI  BTISH THER  C CONVECTOR  C&HW  CAP  CAPACITY  CC  COLING COIL  CFM  COLD  CFM  CONN  CONNECT  CV  DB  DDC  DB  DDC  DB  DDC  DIRECT DIGIT.  DIA  DDC  DWG OR DWGS  E, EX OR (E)  EG  ECU  ECU  EVAPORATIVE  EF  EC  ECU  EVAPORATIVE  EF  EG  EXHAUST AIR  ERY  ESP  EXTERNAL ST  ET  ET  EXPANSION T  ET  ET  EVAPANSION T  ET  EVAPUST AIR  EXHAUST AIR  EXHAUST OR  ET  ET  EXPANSION T  ETO  EXISTING OF  EXISTING OR  EXHAUST OR | S DOOR HED FLOOR H GRADE EL OR EMPERATURE CONTROL REVENTER HUCT RIMAL UNIT RIMAL UNIT PER HOUR WATER  L JSER PER MINUTE   | G GAS PIPING GS GLYCOL SUPPLY GR GLYCOL RETURN RS REFRIGERANT SUCTION RL REFRIGERANT LIQUID RHG REFRIGERANT HOT GAS D A.C. CONDENSATE DRAIN MUW MAKE UP WATER PC PUMPED CONDENSATE HPC HIGH-PRESSURE CONDENSATE BBD BOILER BLOWDOWN FOD FUEL OIL DISCHARGE FOG FUEL OIL SUCTION FOR FUEL OIL RETURN FOV FUEL OIL TANK VENT MTWS MEDIUM-TEMPERATURE HOT WATER SUPPLY HTWS HIGH-TEMPERATURE HOT WATER RETURN HTWR MEDIUM-TEMPERATURE HOT WATER RETURN HTWR HIGH-TEMPERATURE HOT WATER RETURN HTWR HIGH-TEMPERATURE HOT WATER RETURN CHEM CHEMICAL SUPPLY PIPES CHWS CHILLED WATER SUPPLY CWG CONDENSER WATER SUPPLY CWG CONDENSER WATER RETURN HPS HIGH-PRESSURE STEAM HWS HOT WATER SUPPLY PIPING | POINT OF CONNECTION TO EXISTING  LIMIT OF DEMOLITION  EQUIPMENT, GRILLE, REGISTER OR DIFFUSER TAG  DIFFUSER, REGISTER OR GRILLE TAG, WITH CFM AIRFLOW  REVISION TAG  REVISION CLOUD  1 NOTE CALL OUT  PRESSURE GAUGE WIPETCOCK  P DUCT STATIC PRESSURE SENSOR  PC ISOLATION ROOM PRESSURIZATION CONTROLLER  S DUCT MOUNTED SMOKE DETECTOR, MTD BY HVAC CONTR. SUPPLIED AND WIRED BY ELECTRICAL CONTR. FLOW SWITCH  PS PRESSURE SWITCH  THERMOSTAT  V MANUAL AIR VENT  PP PRESSURE PORT ("PETE'S PLUG")  FLOAT & THERMOSTATIC TRAP  HUMIDIFIER | EXISTING RECTANGULAR DUCT RUN W/ SIZE DESIGNATION  EXISTING FLEX DUCT RUN W/ SIZE DESIGNATION  EXISTING FLEX DUCT RUN W/ SIZE DESIGNATION  DEMOLITION RECTANGULAR DUCT RUN W/ SIZE DESIGNATION  DEMOLITION CIRCULAR DUCT RUN W/ SIZE DESIGNATION  DEMOLITION FLEX DUCT RUN W/ SIZE DESIGNATION  NEW RECTANGULAR DUCT RUN W/ SIZE DESIGNATION  NEW RECTANGULAR DUCT RUN W/ SIZE DESIGNATION  NEW CIRCULAR DUCT RUN W/ SIZE DESIGNATION  NEW FLEX DUCT RUN W/ SIZE DESIGNATION  NEW CIRCULAR DUCT RUN W/ S |  |
|   | FPM FSD COMBINATION FT FSD COMBINATION FT FEET FTR FIN TUBE RAD GAL GAL GALLONS GC GE GENERAL EXH GPM GALLONS PER GV GATE VALVE HC HC HEATING COIL HP HORSE POWE HVAC HW HOT WATER ID IN INICHES KW KILOWATTS L LAT LEAVING AIR LWT MBH THOUSANDS O MC MCH MC NORMALLY CI NORMALLY CI NOM NOMINAL NTS NOT TO SCALI OUTSIDE AIR  | TEMPERATURE  OLOSED PEN RACTOR  A FIRE AND SMOKE DAMPER  HWR  HWR  HWR  HWR  HWR  HWR  HWR  H   | HWS HOT WATER SUPPLY PIPING HWR HOT WATER RETURN PIPING RHWS REHEAT HOT WATER SUPPLY PIPING RHWR REHEAT HOT WATER RETURN PIPING LPC LOW PRESSURE CONDENSATE RETURN LPS LOW PRESSURE STEAM MPC MEDIUM PRESSURE CONDENSATE RETURN MPS MEDIUM PRESSURE STEAM DCW DOMESTIC COLD WATER PIPING DHW DOMESTIC HOT WATER PIPING DHWR DOMESTIC HOT WATER RECIRCULATION PIPING V VENT PIPING PIPE DROP PIPE RISER PIPE TEE - DOWN PIPE TEE - UP PIPE CONNECTION PIPE BREAK - TO CONTINUE DIRECTION OF FLOW  | VARIABLE AIR VOLUME BOX  12 , 12x12  DUCT SIZE  PIPE SIZE  12"S UP 14"DN  ROOF EXHAUST - EXISTING  ROOF EXHAUST - NEW  MANUAL VOLUME DAMPER  FD FIRE DAMPER  SD COMBINATION FIRE SMOKE DAMPER  SMOKE DAMPER   | MECHANICAL ALTERNATE LIST  NUMBER  TITLE  NOTE: REFER TO ARCHITECTURAL DOCUMENTS FOR DEDUCT ALTERNATE ITEMS.   |  |
| REMOVAL OR REUSE. CONFIRM WITH OWNER THAT ALL EQUIPMENT, DUCTWORK AND PIPING DESIGNATED TO BE REMOVED IS NO LONGER IN SERVICE PRIOR TO ITS REMOVAL.  25. EXISTING EQUIPMENT, DUCTWORK AND PIPING TO REMAIN IN SERVICE SHALL BE INSPECTED. ANY EQUIPMENT FOUND TO BE INOPERABLE SHALL BE REPORTED TO THE PROJECT ENGINEER.  26. INFILL ALL NEW OR EXISTING ABANDONED FLOOR SLAB PENETRATIONS WITH GROUT, FUIL THICKNESS OF SLAB. MAINTAIN 2 HR FIRE RATING, ALL EXISTING CONCRETE FLOORS AND CHASES ARE 2 HOUR FIRE RATED.  27. FILL AND PATCH ALL OPENINGS IN WALLS WHERE CONDUITS, PIPES, DUCTS ETC. ARE OR HAVE BEEN REMOVED WITH UL LISTED FIRE ASSEMBLY APPROVED BY THE ARCHITECT. MAINTAIN 2 HR FIRE RATING WHERE APPLICABLE.  28. ALL UNUSED (ABANDONED) DUCTWORK, PIPING AND EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED AND CAPPED.  29. TIE-IN POINT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON EXISTING CONDITIONS.   | OED OPEN ENDED PC PLUMBING CO PD PRESSURE DF PSI POUNDS PER PRV PRESSURE RF RA RETURN AIR REF RETURN EXHAL RF RETURN AIR REF RETURN AIR REF RETURN AIR REHEAT WATE RHWS REHEAT WATE RHWS REHEAT WATE RAV RELIEF VALVE SA SUPPLY AIR SAT SUPPLY AIR SAT SUPPLY AIR SPEC SPEC SPECIFICATION SPEED SPEC SPECIFICATION SPEED SPEC SPECIFICATION TOP OF DUCT TSTAT THERMOSTAT TYP TYPICAL U.G. UNDER GRAD U.S. UNDER SLAB UC V V VENT VAV VARIABLE AIR VACUUM BRE, VARIABLE AIR VACUUM BRE, VENT THROUGH WWASTE WITH   | DUCT ONTRACTOR ROP SQUARE INCH EDUCING VALVE  AUST FAN  GRILLE ER RETURN ER SUPPLY  REGISTER  EMPERATURE  SURE  ON REGISTER  FEEL R GRILLE  FOOR  VOLUME AKER EQUENCY DRIVE GH ROOF  MPERATURE (°F) | ANCHOR PIPE CAP  GUIDE PIPE GUIDE EXPANSION JOINT U UNION BLV BALL VALVE BFV BUTTERFLY VALVE SCV SWING CHECK VALVE CBV CIRCUIT BALANCE VALVE ACV 2-WAY AUTOMATIC CONTROL VALVE ACV 3-WAY AUTOMATIC CONTROL VALVE (MIXING PATTERN) GV GATE VALVE GLV GLOBE VALVE MPV MULTIPURPOSE VALVE T THERMOMETER FLG FLANGE STRAINER WIDRAIN VALVE AND CAP  RSV RELIEF OR SAFETY VALVE PGV PLUG VALVE RPBP REDUCED PRESSURE BACKFLOW PREVENTOR PIPE SLOPE  | DIFFUSER SYMBOLS         SYMBOLS       ABBREVIATIONS       DESCRIPTIONS         RG, RR       RETURN AIR GRILLE, REGISTER         BG, ER       EXHAUST AIR GRILLE, REGISTER         SD, SR, SG       SUPPLY AIR 4 WAY DIFFUSER, REGISTER, GRILLE         SD, SR, SG       SUPPLY AIR 3 WAY DIFFUSER, REGISTER, GRILLE         SD, SR, SG       SUPPLY AIR 2 WAY DIFFUSER, REGISTER, GRILLE         SD, SR, SG       SUPPLY AIR 2 WAY DIFFUSER, REGISTER, GRILLE         SD, SR, SG       SUPPLY AIR 1 WAY DIFFUSER, REGISTER, GRILLE           |  |  |



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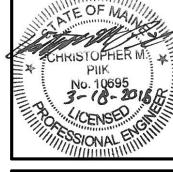
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HVAC LEGEND AND GENERAL NOTES

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