

**GENERAL MECHANICAL NOTES**

- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS.
- COORDINATE LOCATION OF MECHANICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
- COORDINATE THE EXACT LOCATION OF AIR DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- MAKE CONNECTIONS FROM MECHANICAL EQUIPMENT TO DUCTWORK USING FLEXIBLE DUCT CONNECTIONS.
- PROVIDE 6" HIGH CONCRETE HOUSEKEEPING PADS FOR MOUNTING ALL FREE STANDING INTERIOR MECHANICAL EQUIPMENT, UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT, PIPE, AND DUCTWORK ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
- WHERE PIPES AND DUCTWORK PENETRATE FIRE RATED BARRIERS (WALLS, FLOORS, AND CEILINGS), SEAL OPENING AROUND PIPES AND DUCTWORK WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER.
- PROVIDE EXPANSION-DEFLECTION JOINTS WHERE PIPE AND DUCTWORK CROSSES BUILDING EXPANSION OR SEISMIC JOINTS.
- DUCT SIZES INDICATED ARE OUTSIDE (SHEET METAL) DIMENSIONS.
- INSTALL ALL EQUIPMENT WITH MANUFACTURERS RECOMMENDED CLEARANCES FOR SERVICING AND MAINTENANCE.
- INSURE ALL FILTERS CAN BE REMOVED FROM UNITS WITHOUT REMOVING ANY PIPES, STRUCTURAL SUPPORTS OR OTHER EQUIPMENT.
- TEST AND BALANCE REPORT SHALL BE COMPLETED AND SUBMITTED PRIOR TO PRE-FINAL INSPECTIONS.
- PROVIDE A MANUAL AIR VENT AT ALL HIGH POINTS IN HOT WATER AND CHILLED WATER PIPING SYSTEMS.

**GENERAL DEMOLITION NOTES**

- ALL ITEMS AND BUILDING CONSTRUCTION (I.E. EQUIPMENT, DUCTWORK, PIPING, WALLS, FLOORS, ETC.) SHOWN ON DEMOLITION PLANS ARE EXISTING AND SHALL REMAIN, UNLESS NOTED OTHERWISE.
- REMOVAL OF EQUIPMENT, DUCTWORK, PIPING, ETC. IS TO INCLUDE ALL ASSOCIATED HANGERS, SUPPORTS, BRACKETS, CONTROLS, AIR DEVICES, EQUIPMENT FOUNDATION/MOUNTING PADS, AND APPURTENANCES PHYSICALLY ATTACHED AT THE COMMENCEMENT OF DEMOLITION, UNLESS NOTED OTHERWISE.
- CONCEALED/BURIED PIPING MAY BE ABANDONED IN PLACE SO LONG AS IT DOES NOT INTERFERE WITH NEW WORK, UNLESS NOTED OTHERWISE.
- ALL EXISTING PIPE SIZES INDICATED OR ASSUMED ARE APPROXIMATE TO WITHIN 3 PIPE SIZES, FOR BIDDING PURPOSES.
- ALL EXISTING DUCT SIZES INDICATED OR ASSUMED ARE APPROXIMATE TO WITHIN ±3" ON EACH DIMENSION, FOR BIDDING PURPOSES.
- LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC., IS DIAGRAMMATIC ONLY AND IS NOT INTENDED TO SHOW THE EXACT LOCATION.
- COLD WATER PIPES WITH NO SIZE INDICATED, ASSUME 1-1/2" SIZE.
- VENT PIPING WITH NO SIZE INDICATED, ASSUME 2" SIZE.
- STEAM PIPING WITH NO SIZE INDICATED, ASSUME 1-1/2" SIZE.
- STEAM CONDENSATE PIPING WITH NO SIZE INDICATED, ASSUME 1-1/2" SIZE.
- DRAIN PIPING WITH NO SIZE INDICATED, ASSUME 1-1/2" SIZE.
- CHILLED WATER PIPING WITH NO SIZE INDICATED, ASSUME 6" SIZE.
- CONDENSER WATER PIPING WITH NO SIZE INDICATED, ASSUME 8" SIZE.
- ALL EQUIPMENT, PIPING, DUCTWORK, AND ASSOCIATED APPURTENANCES INDICATED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR WITHIN 24 HOURS AFTER REMOVAL OF SUCH ITEMS.
- EXISTING EQUIPMENT INDICATED TO BE REUSED SHALL BE CLEANED AND SERVICED PRIOR TO REUSE.

**MECHANICAL LEGEND**

- |         |  |        |  |
|---------|--|--------|--|
| A.F.F.  | ABOVE FINISHED FLOOR                     | UH-    | UNIT HEATER  |
| AD      | ACCESS DOOR                              | U.N.O. | UNLESS NOTED OTHERWISE   |
| "A"-000 | AIR DEVICE MARK-CFM                      | →      | FLOW-IN DIRECTION OF ARROW   |
| AHU-    | AIR HANDLING UNIT                        | ⊗      | GATE VALVE   |
| ASME    | AMERICAN SOCIETY OF MECHANICAL ENGINEERS | ⊗      | GLOBE VALVE  |
| B.F.F.  | BELOW FINISHED FLOOR                     | ⊕      | PLUG VALVE   |
| B.V.    | BUTTERFLY VALVE                          | ⊕      | BUTTERFLY VALVE  |
| CLG.    | CEILING                                  | ⊕      | DAMPER/VALVE ACTUATOR  |
| CH-     | CHILLER                                  | ⊕      | PRESSURE GAUGE   |
| CHWR    | CHILLED WATER RETURN                     | ⊕      | REDUCED PRESSURE BACKFLOW PREVENTER  |
| CHWS    | CHILLED WATER SUPPLY                     | ⊕      | THREE-WAY CONTROL VALVE  |
| CONC.   | CONCRETE                                 | ⊕      | TWO-WAY CONTROL VALVE  |
| COND.   | CONDENSATE                               | ⊕      | UNION  |
| CPRO    | CHILLER PLANT REPLACEMENT OPTION         | ⊕      | AIR VENT, AUTOMATIC  |
| CWR     | CONDENSER WATER RETURN                   | ⊕      | AIR VENT, MANUAL   |
| CWS     | CONDENSER WATER SUPPLY                   | ⊕      | BACK DRAFT DAMPER  |
| CT-     | COOLING TOWER                            | ⊕      | DAMPEN WITH ACCESS DOOR (NUMBER INDICATES WALL HOUR RATING)                            |
| DH-     | DUCT HEATER                              | ⊕      | VOLUME DAMPER  |
| DN.     | DOWN                                     | 15x10  | DUCT (FIRST NO. IS SIDE SHOWN, SECOND NO. IS SIDE NOT SHOWN)                           |
| E.A.    | EXHAUST AIR                              | 24x6   | DOUBLE WALL DUCTWORK   |
| EF-     | EXHAUST FAN                              | FDC    | FLEXIBLE DUCT CONNECTION   |
| FB-     | FILTER BANK                              | ---    | COLD WATER   |
| FPM     | FEET PER MINUTE                          | HPC-   | HIGH PRESSURE CONDENSATE   |
| HB      | HOSIBIB                                  | HPS-   | HIGH PRESSURE STEAM  |
| HWR     | HOT (HEATING) WATER RETURN               | ⊕      | SMOKE DETECTOR   |
| HWS     | HOT (HEATING) WATER SUPPLY               | ⊕      | THERMOSTAT MOUNT 80" A.F.F., U.N.O.  |
| KHU     | KITCHEN HOOD UNIT                        | ⊕      | CONNECT TO EXISTING  |
| M#      | DRAWING DESIGNATION                      | ⊕      | POINT OF DISCONNECTION BETWEEN EXISTING TO REMAIN AND THAT TO BE REMOVED OR DEMOLISHED |
| O.A.    | OUTSIDE AIR                              | ⊕      | KEYED DEMOLITION NOTES   |
| P-      | PUMP                                     | ⊕      | KEYED RENOVATION NOTES   |
| REFRIG. | REFRIGERANT                              |        |  |
| R.A.    | RETURN AIR                               |        |  |
| SF-     | SUPPLY FAN                               |        |  |
| SHT.    | SHEET                                    |        |  |
| S.A.    | SUPPLY AIR                               |        |  |
| T&P     | TEMPERATURE & PRESSURE                   |        |  |
| U.G.    | UNDERGROUND                              |        |  |

**DESIGN CONDITIONS**

	OUTDOOR	INDOOR
SUMMER	91'db/81'wb	76'db/50%RH
WINTER	27'db	68'db

LETTER INDICATES SECTION — SHEET NUMBER WHERE ELEVATION, SECTION OR DETAIL IS TAKEN OR DRAWN

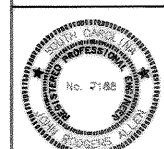
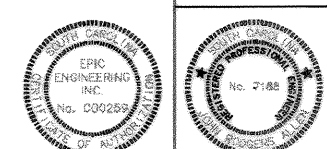
NUMBER INDICATES ELEVATION OR DETAIL — A/M101

LETTER INDICATES SECTION — A

NUMBER INDICATES ELEVATION OR DETAIL — M101

SHEET NUMBER WHERE ELEVATION, SECTION OR DETAIL IS TAKEN OR DRAWN

**ELEVATION, SECTION OR DETAIL SYMBOL**



RECORD DRAWING DATE: 7/27/04

CODE (I.E. NO.): 80281

DRAWING SIZE: D

SPC. NO. 06-08-0838

CONSTR. CONF. NO. N62467-08-C-0838

NAVFAC DRAWING NO. 535795E

SHEET 133 OF 194

**M-001**

Click/Boehm Assoc. Inc.  
247 Meeting Street  
Charleston, S.C. 29403  
(803) 777-6377

DATE: 7/27/04

BY: [Signature]

CHECKED BY: [Signature]

DESIGNED BY: [Signature]

APPROVED BY: [Signature]

TITLE: MECHANICAL

DRAWING REVISIONS

Rev.	Description	Date	By	Appr.
1	AS-BUILT DRAW. NO CORRECTIONS	7/27/04	[Signature]	[Signature]

CHARLESTON AIR FORCE BASE CHARLESTON, SOUTH CAROLINA

**DINING FACILITY**

MECHANICAL NOTES, LEGEND AND SCHEDULE

APPROVED: [Signature] DATE: 7/27/04

BY: [Signature] FOR COMMANDER, WINGS

Naval Facilities Engineering Command

Southern Division

Charleston, South Carolina

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