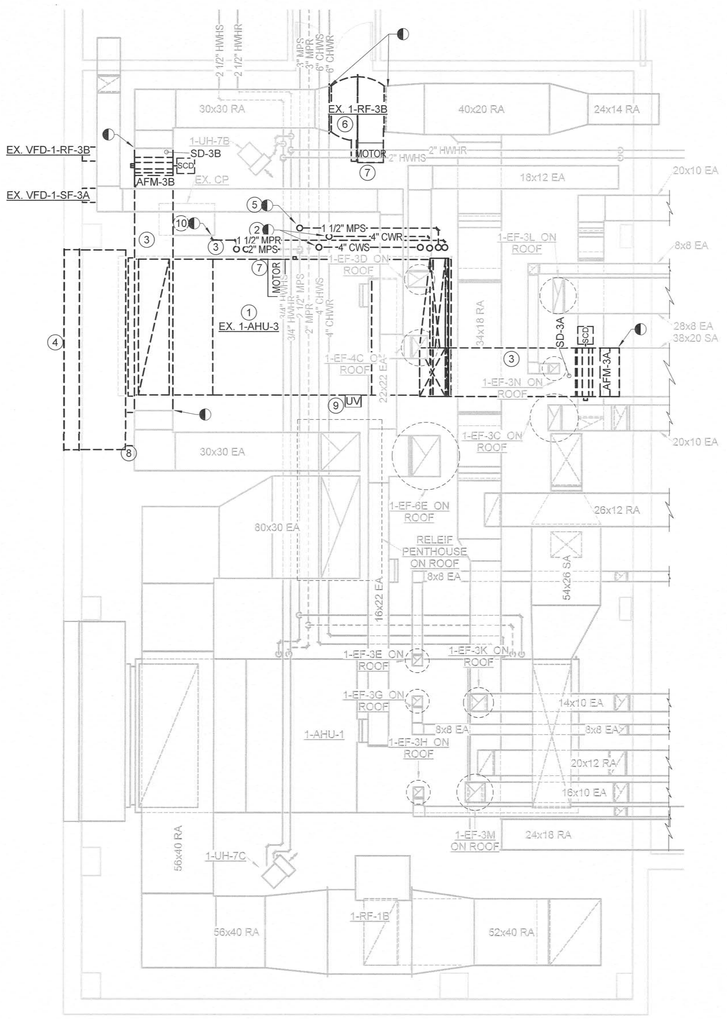
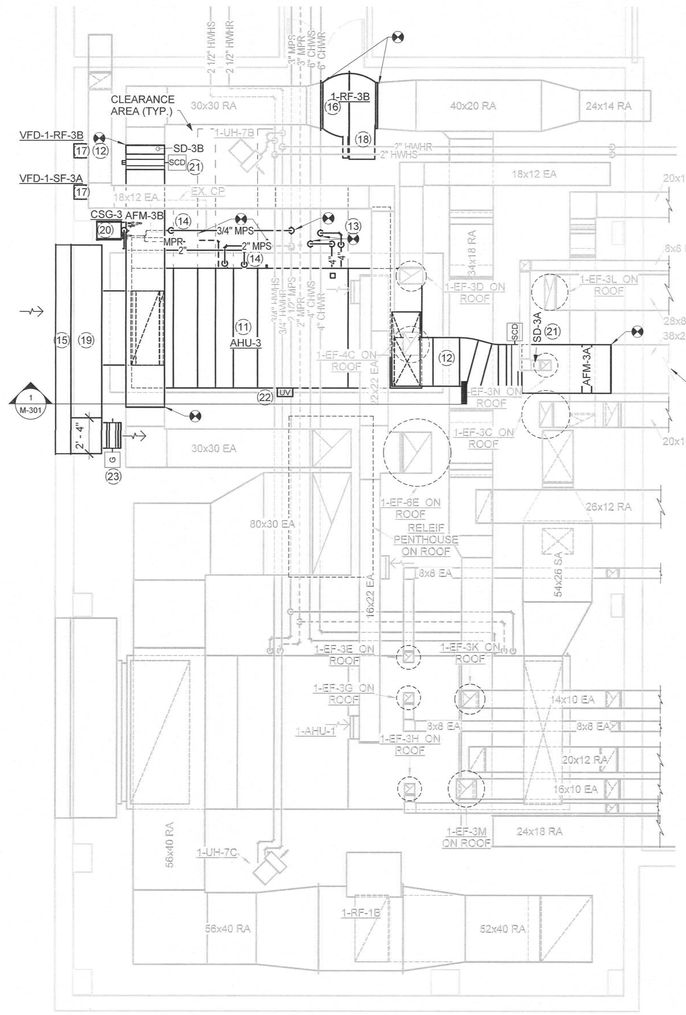
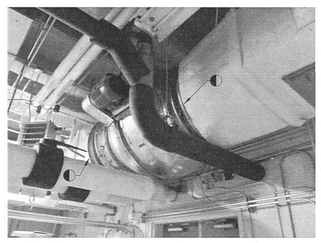


1 M-101 FIRST LEVEL MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



2 M-101 FIRST LEVEL MECHANICAL NEW WORK PLAN
1/4" = 1'-0"



3 M-101 1-RF-3B EXISTING CONDITION
N.T.S.

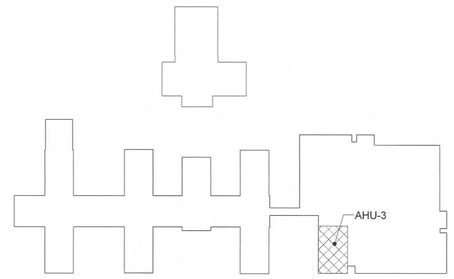
4 M-101 CP EXISTING CONDITION
N.T.S.

GENERAL NOTES

1. PROVIDE INFECTION CONTROL MEASURES PER FAYETTEVILLE VAMC REQUIREMENTS DURING ALL WORK IN THIS AREA.
2. TEMPORARY AIR HANDLING UNIT TO BE PROVIDED AND CONNECTED INTO EXISTING CHW FOR AHU-3. PLACE TEMPORARY UNIT ON ROOF OUTSIDE MECHANICAL ROOM.
3. PROVIDE MINIMUM PITCH SUFFICIENT TO INSURE ADEQUATE VENTING AND DRAINAGE FOR CHW PIPING.
4. PROVIDE ½" DRAIN VALVES AND CAPPED CONNECTIONS AT LOW POINTS IN PIPING SYSTEMS FOR DRAINING FOR CHW PIPING.
5. PITCH STEAM AND GRAVITY CONDENSATE PIPING, MINIMUM 1" IN 40' IN DIRECTION OF FLOW, UNLESS OTHERWISE INDICATED.
6. CONDENSATE RETURN MAIN SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 20'.
7. COODRINATE DUCT CLEANING SCOPE WITH COR PER SPEC SECTION 23 01 30.
8. UNLESS NOTED OTHERWISE, ALL NEW PIPE SIZES SHALL BE THE SAME SIZE AS WHAT WAS DEMOLISHED.
9. THE CONTRACTOR SHALL COVER THE SMOKE DETECTORS IN THE IMMEDIATE AREA OF WORK WITH PAPER BAGS TO PREVENT ACCIDENTAL ACTIVATION. AT THE CONTRACTOR'S OPTION, THE SMOKE DETECTORS CAN BE TURNED OFF BY THE VA BY COORDINATING AT LEAST 24 HOURS IN ADVANCE WITH THE COR. HOWEVER, IF THE SMOKE DETECTORS ARE SHUT DOWN FOR MORE THAN 4 HOURSE A FIRE WATCH MUST BE IMPLEMENTED.
10. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT DAMAGE TO AND/OR TRIGGERING SPRINKLER HEADS. AT THE CONTRACTOR'S OPTION, THE SPRINKLER SYSTEM CAN BE DISABLED BY THE VA, ON A FLOOR BY FLOOR BASIS. THE CONTRACTOR SHALL COORDINATE AT LEAST 24 HOURS IN ADVANCE WITH THE DOR IF THIS OPTION IS USED. HOWEVER, IF THE SPRINKLERS ARE SHUT DOWN FOR MORE THAN 4 HOURS A FIRE WATCH MUST BE IMPLEMENTED.

KEY (#) NOTES

1. REMOVE AIR HANDLER, CONDENSATE DRAIN PIPING AND SUPPORTS COMPLETE. CONCRETE PAD IS EXISTING TO REMAIN. PROVIDE TEMPORARY COOLING/HEATING DURING REPLACEMENT. REMOVED EXISTING UV LIGHT FOR RE-INSTALLATION IN NEW AHU.
2. REMOVE MPS/MPC PIPING, TRAP, INSULATION, HANGERS AND SUPPORTS COMPLETE TO POINT INDICATED.
3. REMOVE DUCTWORK, INSULATION, HANGERS, SUPPORTS, DAMPERS AND OTHER DEVICES COMPLETE TO POINT INDICATED.
4. REMOVE LOUVER AND PLENUM FOR AIR HANDLER REPLACEMENT. AHU-3 CLEAR OPENING IS 10'-10 1/2" x 13'-7 1/8" BETWEEN STEEL SUPPORTS. REMOVE AHU THROUGH WALL OPENING.
5. REMOVE CWS/CWR PIPING, INSULATION, HANGERS AND SUPPORTS COMPLETE TO POINT INDICATED.
6. REMOVE INLINE RETURN FAN, FLEXIBLE DUCT CONNECTORS, HANGERS AND SUPPORTS COMPLETE. TEMPORARY SUPPORT DUCTWORK FOR RETURN FAN REPLACEMENT. REMOVAL WILL REQUIRE COORDINATION WITH OBSTRUCTING PIPE AND OTHER DEVICES. SEE 3/M-101 FOR REFERENCE TO EXISTING CONDITIONS.
7. REMOVE INVERTER DUTY MOTOR, SHEAVE, BELT AND ASSOCIATED APPURTENANCES. ITEMS REMOVED SHALL BE TURNED OVER TO HOSPITAL FOR REPLACEMENT STOCK.
8. REMOVE DAMPER, PNEUMATIC ACTUATOR, TUBING, WIRING AND ALL ASSOCIATED APPURTENANCES BACK TO CONTROLLER COMPLETE.
9. REMOVE UV LIGHT, ENCLOSURE, MOUNTINGS, ACCESS INTERIOR SAFETY SWITCH AND WIRING CLEAN AND STORE FOR REINSTALLATION.
10. REMOVE MPR TO CONDENSATE PUMP. PUMP TO REMAIN FOR FUTURE USE.
11. PROVIDE AIR HANDLER AS SCHEDULED, VIBRATION ISOLATORS AND SUPPORTS COMPLETE. MOUNT ON EXISTING CONCRETE PAD. COORDINATE WITH ARCHITECTURAL PLANS FOR FINISH WORK ON CONCRETE PAD PRIOR TO AHU INSTALLATION.
12. PROVIDE DUCTWORK, INSULATION, HANGERS AND SUPPORTS COMPLETE. CONNECT TO EXISTING DUCT AS INDICATED.
13. PROVIDE 4" CHWS/CHWR PIPING, INSULATION, HANGERS AND SUPPORTS.
14. PROVIDE MPS/MPC PIPING, INSULATION, HANGERS AND SUPPORTS.
15. PROVIDE 4" DEEP STATIONARY EXTRUDED ALUMINUM, STORM RESISTANT LOUVER WITH DRAINABLE BLADES AND BIRDSCREEN. CONTRACTOR TO SUBMIT COLOR CHART. COR TO SELECT COLOR PRIOR TO ORDERING.
16. PROVIDE INLINE EXHAUST FAN AS SCHEDULED, HANGERS AND SUPPORTS COMPLETE. SUPPORT FROM STRUCTURE WITH SPRING VIBRATION ISOLATORS. REFER TO DETAIL 8 ON DRAWING M-501. PROVIDE WITH EQUIPMENT FLEXIBLE DUCT CONNECTORS.
17. PROVIDE VFD FOR EQUIPMENT MOUNTED TO WALL OR UNISTRUT. MOUNT VFD SO CONTROLS ARE AT 48" AFF.
18. COORDINATE RETURN FAN MOTOR, ORIENT SO THAT MOTOR IS IN HORIZONTAL POSITION. FINALIZE ORIENTATION WITH FACILITIES PERSONNEL.
19. PROVIDE 24" DEEP REINFORCED SHEET METAL PLENUM FULL SIZE OF LOUVER. REINFORCING SHALL BE MINIMUM 2"x2"x1/4" ANGLE IRON. PARTITION OFF 2'-4" VERTICAL SECTION FOR 5,800 CFM.
20. PROVIDE NEW STEAM TO STEAM CLEAN STEAM GENERATOR TO SERVE AHU-3. PIPE TO AHU SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING PLANS FOR WATER CONNECTION.
21. PROVIDE NEW DUCT DETECTOR, SMOKE CONTROL DAMPER AND AIR FLOW MEASURING DEVICE.
22. REINSTALL UV LIGHTING IN COOLING COIL SECTION OF AIR HANDLER. PROVIDE NEW BULBS FOR UV LIGHT.
23. PROVIDE NEW 20x34 DUCT WITH GRAVITY BACKDRAFT DAMPER. COVER OPENING WITH EXPANDED METAL.
24. PROVIDE NEW DUCT STATIC PRESSURE SENSOR 2/3 DOWN THE SUPPLY DUCT. COORDINATE EXACT LOCATION WITH COR. REMOVE EXISTING SENSOR.



BUILDING 1 & 3 KEY PLAN

100% CONSTRUCTION DOCUMENTS

Revisions	Date
Amended Per Owner's Comments No Rev Clouds	10/17/2014

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 38777 ENGINEER THOMAS P. GEORGE 10/17/14

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Project Number: 2013121
Scale: As indicated

Drawing Title: MECHANICAL PLANS AHU-3
Approved: Project Director

Project Title: REPLACE AIR HANDLING UNITS 3, 14, & 34
Location: 2300 RAMSEY STREET, FAYETTEVILLE, NC 28301
Date: 08/28/2014
Checked: DJR
Drawn: SPG

VA Project Number: 246-13-C-0106
Building Number: 1 AND 3
Drawing Number: M-101
Dwg. 6 of 18

Office of Facilities Management
Department of Veterans Affairs

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