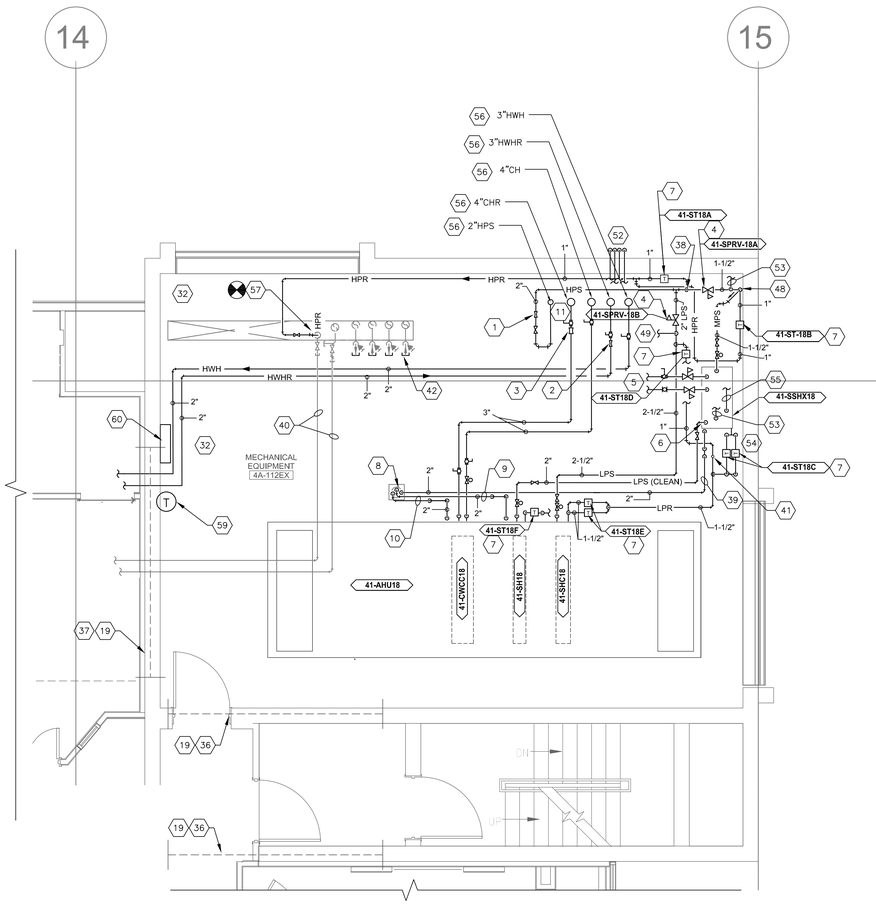
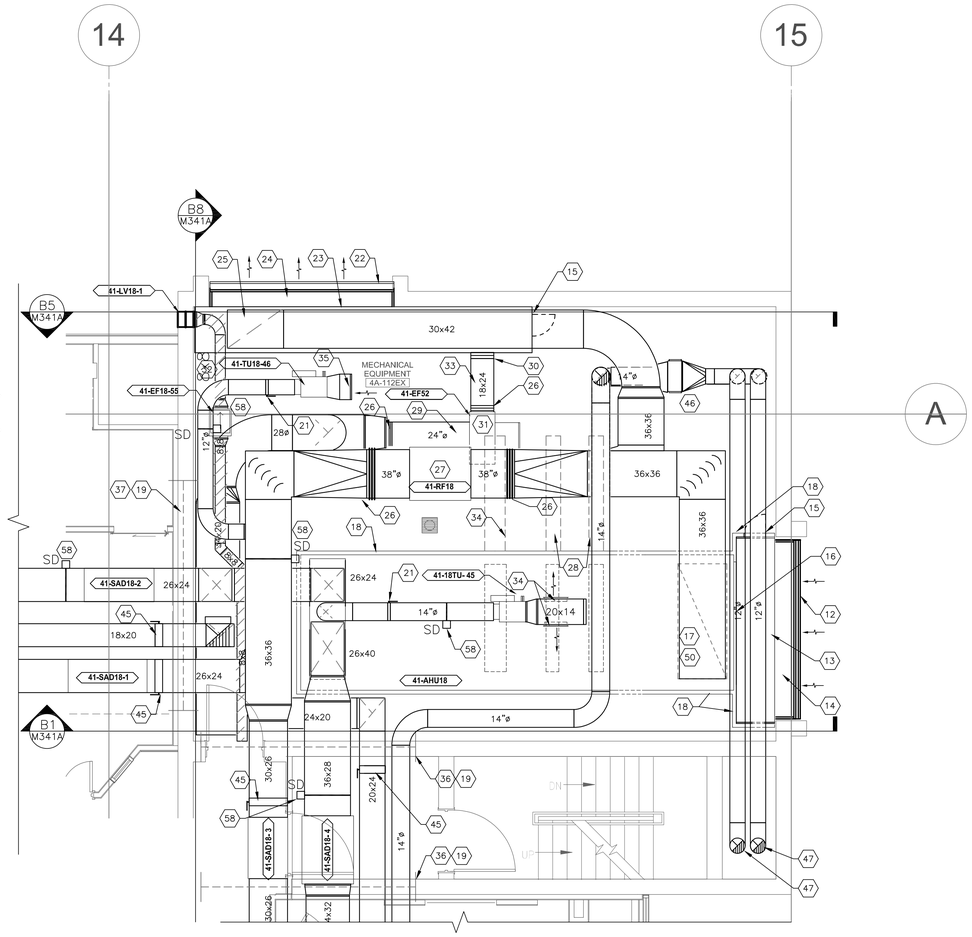


B2 ENLARGED MECHANICAL ROOM PIPING PLAN- LEVEL 4 QUAD A
1/4" = 1'-0"

NORTH



B6 ENLARGED MECHANICAL ROOM PLAN- LEVEL 4 QUAD A
1/4" = 1'-0"

NORTH

GENERAL NOTES

A. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.

B. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.

C. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.

D. ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED

E. HP STEAM HEADER SET PRESSURE: 60 PSIG NORMAL
60 PSIG LOW DEMAND PERIODS

F. ALTITUDE: 5300 FT. ABOVE SEA LEVEL

G. SEISMIC PROVISIONS REQUIRED - SEE SPECS

H. COORDINATE WORK WITH THAT OF ALL DISCIPLINES, INCLUDING BOTH THE NEW WORK AND THE EXISTING TO REMAIN. RELOCATE EXISTING TO REMAIN WORK AS REQUIRED TO ACCOMMODATE THE THE NEW WORK.

I. COORDINATE SHUTDOWNS AND OUTAGES WITH VA COR 2 WEEKS PRIOR TO COMMENCEMENT OF WORK.

J. DUCTWORK IN MECHANICAL ROOM SHALL BE CONSTRUCTED AND INSTALLED TO MEET FOLLOWING PRESSURE CLASSIFICATION REQUIREMENTS:

*SUPPLY: +6 IN W.G.
*RETURN/EXHAUST: -4 IN W.G.
*RETURN (DOWNSTREAM OF RETURN FAN): +6 IN W.G.
*EXHAUST (DOWNSTREAM OF EXHAUST FAN): +6 IN W.G.

K. PROVIDE FLEXIBLE CONNECTIONS IN PIPING AND DUCTWORK THAT CONNECTS TO EQUIPMENT THAT IS REQUIRED TO HAVE SEISMIC RESTRAINTS. SEE SPECIFICATIONS.

SHEET KEYED NOTES

1. STEAM FLOW MEASURING DEVICE
2. HEATING HOT WATER FLOW MEASURING DEVICE
3. CHILLED WATER FLOW MEASURING DEVICE
4. STEAM REDUCING VALVE ASSEMBLY. SEE DETAIL.
5. 1" RO WATER MAKE UP LINE TO GENERATOR AND 1" CW LINE TO BLOWDOWN CHAMBER. SEE PLUMBING PLANS. PROVIDE SHUT OFF VALVE AND PRV FOR EACH.
6. STEAM TO CLEAN STEAM GENERATOR. SEE DETAIL.
7. TRAP SEE DETAIL
8. EXISTING FLOOR DRAIN
9. TWO 2" HUMIDIFIER GRID DRAIN LINES. EXTEND TO EXISTING FLOOR DRAIN. SEE DETAIL.
10. 2" COOLING COIL CONDENSATE DRAIN LINE. SEE DETAIL EXTEND TO EXISTING FLOOR DRAIN.
11. NEW PIPE RISERS TO BASEMENT MECHANICAL EQUIPMENT ROOM.
    "3" HWHR
    "3" HWH
    "4" CHR
    "4" CH
    "2" HPS
    "1-1/4" HPR
12. EXISTING 12 FT X 8FT OUT SIDE AIR LOUVER. REUSE. REMOVE BLANK OFF PANELS.
13. PLENUM. SEE DETAIL. EXTEND TO 6" ABOVE TOP OF LOUVER AND TO FLOOR.
14. 12FT X 8 FT OUTSIDE AIR PLENUM CONNECTION TO LOUVER.
15. 18" X 60 " ACCESS DOOR
16. ACUATOR-CONTROLLED OUTSIDE AIR DAMPER PROVIDED WITH MODULAR AHU
17. ACTUATOR-CONTROLLED RETURN AIR DAMPER PROVIDED WITH MODULAR AHU
18. PROVIDE 4" CONCRETE PAD UNDER OA PLENIUM AND UNDER AHU.
19. EXISTING WALL OPENING FILL WITH FIRE STOP TO MATCH EXISTING.
20. NOT USED
21. MANUAL VOLUME BALANCING DAMPER WITH TIGHT SHUT-OFF
22. EXISTING 12 FT X 5FT RELIEF/EXHAUST LOUVER. REUSE. REMOVE BLANK-OFF PANELS.
23. PLENUM. SEE DETAIL EXTEND TO 6" ABOVE TOP OF LOUVER AND TO FLOOR.
24. 12FT X 5FT RELIEVE/EXHAUST AIR PLENUM CONNECTION TO LOUVER.
25. 72 X 24 ACTUATOR-CONTROLLED RELIEF AIR DAMPER LOCATED AT TOP OF PLENUM
26. FLEXIBLE CONNECTION
27. SUPPORT RF FROM ABOVE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SPRING TYPE VIBRATION ISOLATION HANGERS. SELECT AND INSTALL FAN WITH MOTOR ON BOTTOM.
28. COIL PULL SPACE.
29. 24" Ø ROUND DUCT SHOWN- PROVIDE DUCT THAT IS SAME SIZE AS FAN INLET
30. ACTUATOR-CONTROLLED EXHAUST AIR DAMPER-SIZE TO BE SAME AS EXHAUST FAN DISCHARGE. SIZE SHOWN IS 18 X 24. POSITION DAMPER BLADES PERPENDICULAR TO FAN SHAFT.
31. SUPPORT EXHAUST FAN FROM FLOOR PER MANUFACTURER RECOMMENDATIONS. PROVIDE STEEL BASE WITH SPRING VIBRATION ISOLATORS.
32. SEE PLUMBING PLANS FOR RISERS AND BRANCH RISERS LOCATED IN THIS NORTHWEST PART OF ROOM. COORDINATE. RELOCATE EXISTING PLUMBING LINES AS REQUIRED.

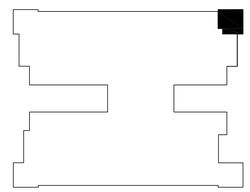
SHEET KEYED NOTES

55. 2" RELIEF-EXTEND FULL SIZE TO OUTSIDE.
56. EXTEND RISER UP 12 INCHES ABOVE TAKE-OFF AND TERMINATE WITH BLIND FLANGE. EXTEND RISER DOWN THROUGH FLOOR. CORE DRILL FLOOR. SEE DETAILS. SEE SCHEMATIC ON M641A.
57. CONNECT TO EXISTING RISER WITH FULL SIZE TEE.
58. IN-DUCT SMOKE DETECTOR. 1 OF 5. COORDINATE WITH ELECTRICAL CONTRACTOR. DETECTOR FURNISHED BY ELECTRICAL CONTRACTOR AND AND INSTALLED BY ELECTRICAL CONTRACTOR AND MECHANICAL CONTRACTOR.
59. THERMOSTAT. WALL MOUNTED. CONTROL FOR 41-18TU-45.
60. WALL-MOUNTED TEMPERATURE CONTROL PANEL.

SHEET KEYED NOTES

33. DUCT SIZE SHOWN IS 18 X 24. PROVIDE DUCT THAT IS SAME SIZE AS FAN OUTLET.
34. PROVIDE (2) 18 X 12 SUPPLY AIR REGISTERS, ONE ON EITHER SIDE OF 20 X 14 SA DUCT. SEE SCHEDULE
35. 20 X 14 RETURN AIR DUCT WITH 1/2" GRID SCREEN ON OPEN END.
36. EXISTING 14FT X 3FT OPENING THROUGH WALL.
37. EXISTING 15FT X 3FT OPENING THROUGH WALL.
38. PROVIDE HPS DRIP/ DIRT LEG AT BOTTOM OF STEAM RISER. SEE DETAIL.
39. 2" DRAIN LINE FROM BLOWDOWN CHAMBER. SEE DETAIL. EXTEND TO EXISTING FLOOR DRAIN.
40. EXISTING 1" HPS AND 1" HPR REMAINS.
41. NEW 1½" LPR RISER DOWN TO LEVEL 3 MECHANICAL EQUIPMENT ROOM. SEE SCHEMATIC ON M641A.
42. CAP EXISTING (4) PIPES (2" CH, 2"CHR, 1-1/4" HWH, 1-1/4" HWHR).
43. NOT USED
44. NOT USED
45. MANUAL VOLUME BALANCING DAMPER.
46. NEW ISOLATION ROOMS SPECIAL EXHAUST HEPA FILTER CABINET SYSTEM. PROVIDE NEW HEPA FILTER. SUPPORT FROM FLOOR. LOCATE 12" AFF. TYPICAL OF 2 REFER TO DETAIL FOR STACKED CONNECTION.
47. NEW 12" Ø SPECIAL EXHAUST EXTEND UP TO ROOF.
48. PROVIDE LPS DIRT/ DRIP LEG AT BOTTOM OF STEAM RISER. SEE DETAIL.
49. 2-1/2" RELIEF - EXTEND FULL SIZE TO OUTSIDE.
50. DUCT DROP TO AHU IS SAME SIZE AS RETURN AIR OPENING ON AHU.
51. NOT USED
52. 4" VENT, 2" RELIEF, 2" RELIEF, 2-1/2" RELIEF. EXTEND ALL TO OUTSIDE. TERMINATE PIPES WITH DOWNWARD 45° ELBOW.
53. 4" VENT-EXTEND FULL SIZE TO OUTSIDE.
54. BLOWDOWN CHAMBER. CONNECT 1" CW SUPPLY LINE (SEE PLUMBING PLANS.) WITH PRV AND BALL VALVE. SEE DETAIL. SEE SCHEMATIC ON SHEET M601.

KEYPLAN



4A RESTART	4/2/2018
Revisions:	Date

CONSULTANTS:

MICHAEL E. DEXTER REGISTERED STATE OF NEW MEXICO 7170 PROFESSIONAL ENGINEER
Digitally signed by Michael Dexter DN: 2018.04.27 08:09:18-06'00'

ARCHITECT/ENGINEERS:

BRIDGERS & PAXTON CONSULTING ENGINEERS, INC.
4600-C MONTGOMERY BLVD., NE
ALBUQUERQUE, NEW MEXICO 87109
505/883-4111 FAX 505/888-1436

Drawing Title: ENLARGED MECHANICAL ROOM
ISSUE FOR BID

Approved: Project Director
NMVAHCS PLANNING AND ENGINEERING

Project Title: NMVAHCS BLDG 41-4A M/S 20 BED UNIT

Location: 1501 SAN PEDRO DR SE ALBUQUERQUE, NM 87108

Date	Checked	Drawn
04-27-2018	MED	ACB

Project Number: 501-330
B & P # : 6331.17

Building Number: 41-A

Drawing Number: M441A
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

Date: Apr 26, 2018 - 1:54pm User:ACBenavidez . . . Drawing File: H:\6131.17\CAD\VAMC ABQ - Renovate Bldgs 41-4A 20 bed\Sheets\Mechanical\613117_MH-441A.dwg . . . Last Saved By: ACBenavidez Apr 09, 2018 - 11:16am . . . Layout Name: ENLARGED MECHANICAL ROOM