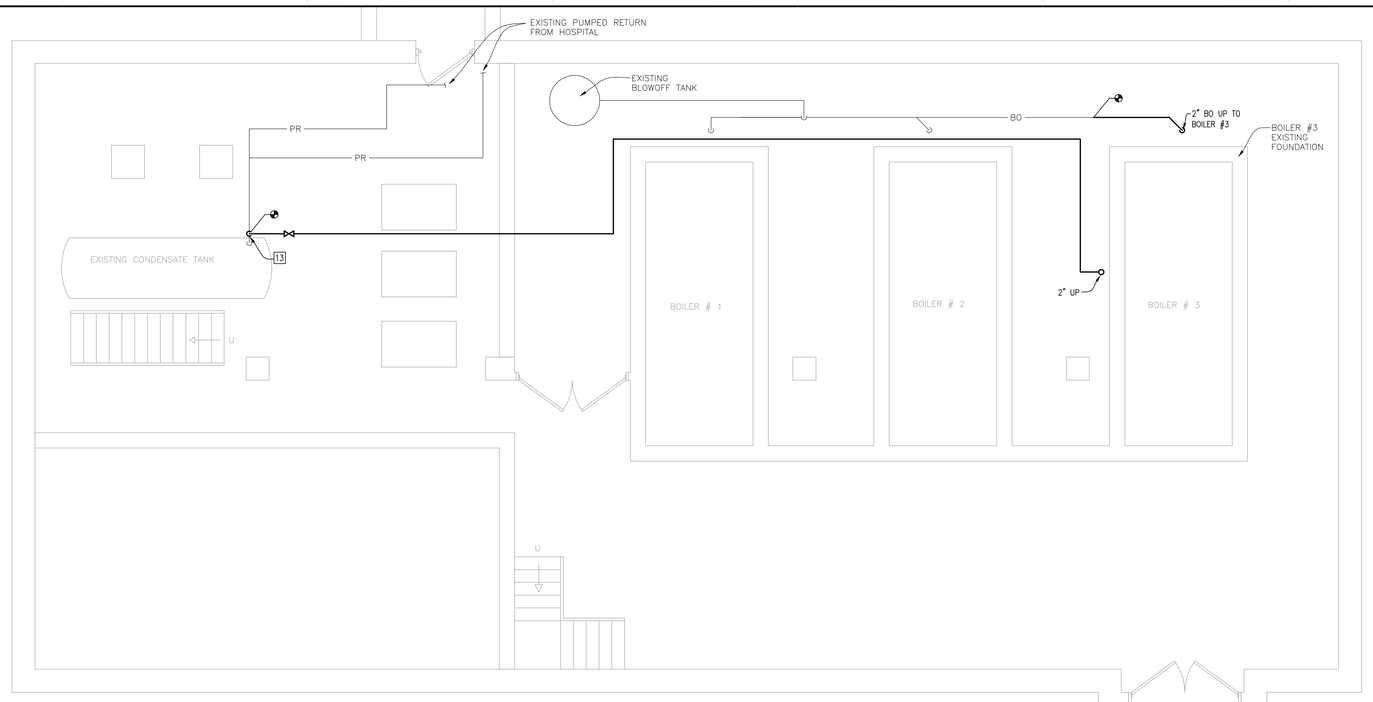
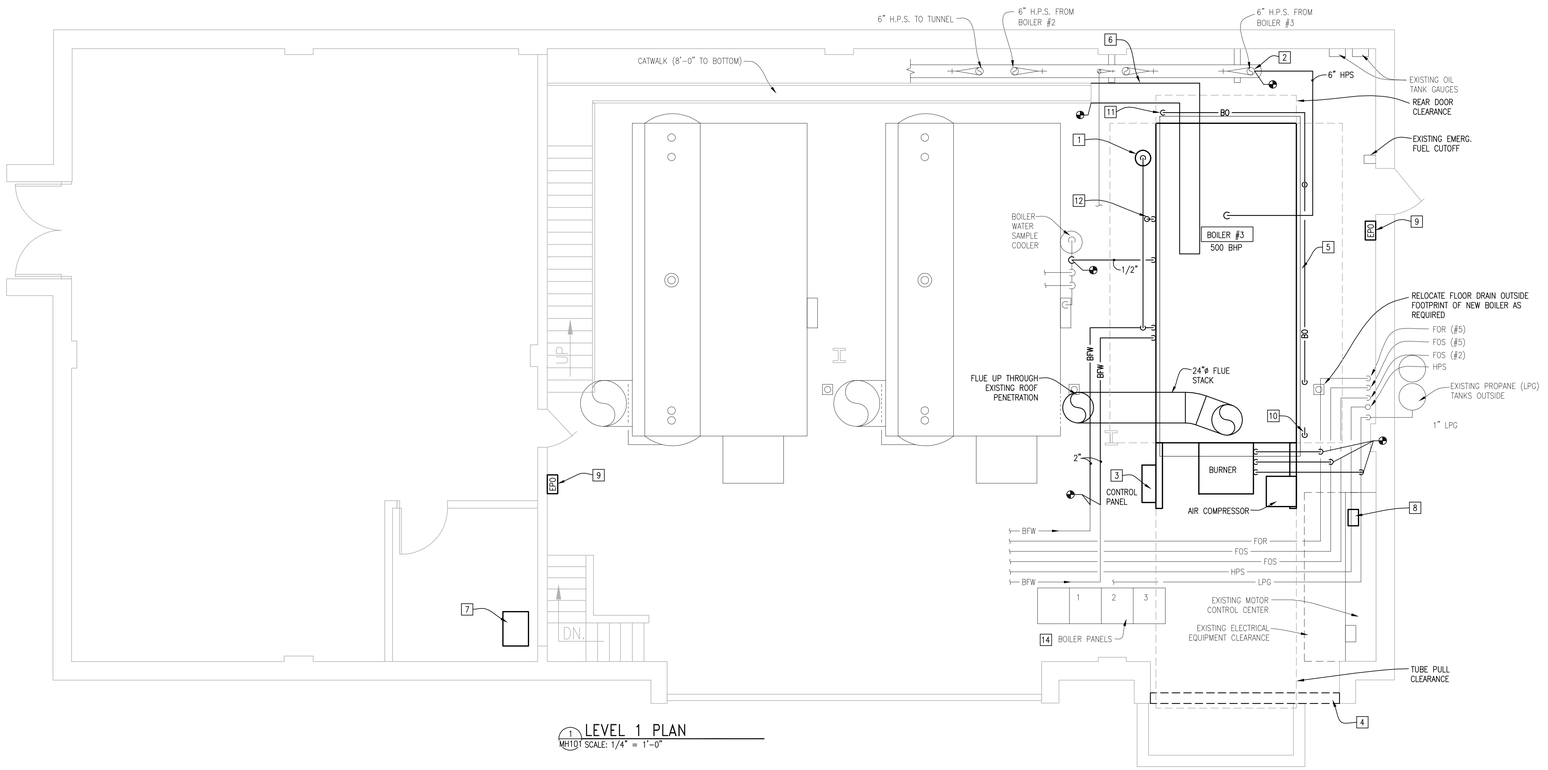


2 BASEMENT FLOOR PLAN
MH101 SCALE: 1/4" = 1'-0"



1 LEVEL 1 PLAN
MH101 SCALE: 1/4" = 1'-0"

KEYED NOTES:

1. NEW CHEMICAL SHOT TYPE FEEDER.
2. CONNECT NEW STEAM SUPPLY DOWN STREAM OF EXISTING SHUT OFF VALVE.
3. NEW BOILER CONTROL PANEL, BURNER, AND AIR COMPRESSOR SHALL BE SKID MOUNTED. PROVIDE SINGLE POINT POWER CONNECTION.
4. SEE SHEET AE101 FOR WINDOW DETAILS.
5. REUSE EXISTING BOILER HOUSEKEEPING PAD IF POSSIBLE. EXTEND EXISTING HOUSEKEEPING PAD AS REQUIRED FOR NEW BOILER. CONCRETE (f'c=3000) PAD EXTENSION TO BE 6" BEYOND BOILER BASE FRAME. REINFORCE EXTENDED PAD W/ #3@12"C/C EACH WAY AT MID-DEPTH OF PAD. ANCHOR NEW PAD TO EXISTING FLOOR SLAB WITH 1/2" ø HEADED ANCHORS (IN EXPANSION SLEEVES) @ 24" C/C ALONG PERIMETER OF NEW PAD. ANCHOR TO EXISTING PAD W/ #3 DOWELS X 1-1/16" @ 24" C/C AT PAD MID-DEPTH (DRILL 6" INTO EXISTING PAD AND ANCHOR WITH ADHESIVE).
6. EXTEND EXISTING ACCESS PLATFORM OVER NEW BOILER.
7. PROVIDE NEW BOILER OPERATOR WORKSTATION. WORKSTATION SHALL MONITOR 500 BHP CONTROL PANELS, ALARMS, RECORD AND DATA LOG STEAM AND NATURAL GAS METERS AT BOILER #3 THROUGH THE EXISTING DDC SYSTEM. THE EXISTING BOILER PLANT WHOLE BUILDING STEAM METER, NATURAL GAS METER, AND MAKE-UP WATER METER SHALL ALSO BE TIED INTO THE DDC SYSTEM.
8. PROVIDE NEW 90A/3P CB IN LOCATION MADE SPARE BY DEMOLITION. PROVIDE 4-#2, 1-#6G, IN 1-1/4" C. TO BOILER CONTROL PANEL AND CONNECT AS REQUIRED.
9. EMERGENCY BOILER SHUTDOWN PUSH BUTTON, +60". PUSH BUTTON SHALL BE MOMENTARY CONTACT TYPE WITH 120V/20A N/O CONTACT BLOCK. OPERATOR SHALL BE 30mm, GUARDED, COLORED RED, AND FITTED WITH CLEAR NON-LOCKING SPRING LOADED COVER TO PREVENT INADVERTENT OPERATION. PUSH BUTTON ASSEMBLY SHALL BE EQUAL TO SQUARE D CLASS 9001 TYPE K OR APPROVED EQUAL. PROVIDE ENGRAVED LEGEND PLATE BELOW PUSH BUTTON INDICATING "EMERGENCY BOILER SHUTDOWN." COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR. BOILER SHUTDOWN SHALL ONLY CONTROL BOILER #3. ALL EMERGENCY SHUT DOWN DEVICES SHALL MEET ASME CSD-1.
10. 4" NATURAL GAS LINE DN TO BASEMENT.
11. 2" BOILER BLOWDOWN DN TO BASEMENT. CONNECT TO EXISTING PIPING IN BASEMENT.
12. FLUE STACK ECONOMIZER BY-PASS PIPING UP DN TO BASEMENT. SEE SHEETS MH102 AND DETAIL 1/MH104.
13. CONNECT FLUE STACK ECONOMIZER BY-PASS LINE TO EXISTING PUMPED CONDENSATE RETURN PIPING AT CONDENSATE STORAGE TANK.
14. EXISTING BOILER PLANT MASTER CONTROL RECORDER SHALL BE TIED INTO DDC SYSTEM FOR MONITORING AND DATA LOGGING AT BOILER PLANT WORK STATION. EXISTING PANEL FOR BOILER #3 SHALL BE SPARE. BOILER #3 STEAM METER AND NATURAL GAS METER SHALL TIE INTO THE DDC SYSTEM FOR MONITORING AND DATA LOGGING OF BOILER #3.

GENERAL MECHANICAL NOTES:

1. ALL ITEMS SHOWN HALF-TONE ARE EXISTING.
2. NOT ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING IS SHOWN.

Revisions	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

Architect Project No. 003-10099-009

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Drawing Title: MECHANICAL ROOM PLAN

Approved: Project Director — Name

Project Title: BOILER REPLACEMENT

Location: OMAHA, NE

Date: JUNE 28, 2013 | Checked: KRC | Drawn: TRF

Project Number: 636-13-102

Building Number: 2

Drawing Number: MH101

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
J:\003-10099-009\E Design SD-DD-CD\01 Drawings\07 Mechanical\VA\MH101.dwg June 27, 2013 - 7:57am trfreeman