



**DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242**

ADDENDUM NO. 1 TO PROJECT NO. 44985

**HVAC WORK AND ELECTRICAL WORK
PROVIDE SUMMER BOILER, POWER HOUSE, BUILDING NO. 28
ELMIRA CORRECTIONAL FACILITY
1879 DAVIS STREET
ELMIRA, NY**

September 1, 2016

<p>NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.</p>
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HVAC SPECIFICATIONS

1. DOCUMENT 000105 CERTIFICATION PAGE: Discard the Document bound in the Project Manual and substitute the attached (page 000105-1) noted "REVISED 8/26/16".
2. SECTION 028213 ASBESTOS ABATEMENT: Discard the Section bound in the Project Manual and substitute the attached (pages 028213-1 thru 028213-9) noted "REVISED 8/26/16".
3. Page 028433-1, Paragraph 1.01 D.: Delete this Paragraph in its entirety and replace with the following:
"D. The project requires the removal of a louver unit and windows that may contain hazardous materials including PCB and/or asbestos containing caulk-sealant materials and glazing compound. In the absence of testing to confirm that the existing louver and windows being removed do not contain PCB or asbestos containing caulk-sealant and glazing materials, it shall be assumed that the louver and windows do contain hazardous materials including PCB and/or asbestos containing caulk-sealant and glazing materials and shall be handled as such in accordance with the project manual and referenced regulations."
4. Page 028433-2, Paragraph 1.03 D.: Delete this Paragraph in its entirety and replace with the following:
"D. OSHA (Occupational Safety and Health Administration) CFR Title 29."
5. Page 028733-1, Paragraph 1.01 C.: Delete this Paragraph in its entirety and replace with the following:
"C. Type of Remediation Project:
 1. Large Remediation Project: Greater than 100 square feet of surface contamination."

6. Page 230523-14, Subparagraph 3.04 A.25.: Delete this Subparagraph in its entirety and replace with the following:
 - “25. Steam (HPS) 125 to 250 psig:
 - a. 2 inches and Less: Screwed end, G gates, N globe or angles and X checks.
 - b. 2-1/2 inches and Up: Flanged end, GV-4 gates, AV-4 globe or angles and CV-4 checks.”

7. Page 232000-15 Subparagraph 3.10.C. 10.: Delete this Subparagraph in its entirety.

8. Page 232000-15, Subparagraph 3.10 C. 12. a. 1) b): Delete this Subparagraph in its entirety.

9. Page 232000-15 and 16, Subparagraph 3.10 C. 12. a. 2): Delete the Subparagraph in its entirety and replace with the following
 - “2) Inside Building (125 psig and less):
 - a) 1-1/2 Inch or Less: SW BS pipe, with SE 150 lb MI fittings and fuel resistant thread sealant, or WE SW ST fittings.
 - b) 2 Inch and Up: XH BS Pipe with WE XH ST Fittings.”

10. Page 237313-9, Subparagraph 3.04 A.1.: Delete this Subparagraph in its entirety and replace with the following:
 - “1. The control and operation of the Makeup Air Units (MAU) shall be through the MAU-01 and MAU-02 control panels. The MAUs shall be provided with an automated logic controller in order to perform the following sequencing. The controller shall be capable of sending and receiving all the signals necessary to integrate the Burner Management System (BMS) signals of the 4 boilers.”

11. Page 237313-9, Paragraph 3.04 A.: Add the following Subparagraphs:
 - “5. When an MAU start is initiated the associated outside air intake damper shall open simultaneously and automatically. The outside air damper shall automatically close when the MAU is stopped.”
 - “6. Any time the outside air temperature is 60 °F or less, MAU-01 and MAU-02 two-position steam control valves shall automatically open and remain open until the outside air temperature exceeds 65 °F. This action shall occur regardless of whether the MAU fan is in operation or not.”

12. Page 237313-10, ARTICLE 3.04 SEQUENCE OF OPERATION: Add the following Paragraphs:
 - “D. Damper Control
 1. The inlet damper to the make-up air unit shall drive open when the make-up air unit is energized.”

 - E. Temperature Control (TCV-6061 and TCV-6062)
 1. The temperature control valves shall be two position valves and shall operate as explained in Paragraph 3.04.A.6 of this Section. The integral face and bypass coil shall proportion the airflow through the steam coil with ambient air that bypasses the steam coil in order to achieve a discharge temperature of 65 °F through operation of a damper.”

13. Page 237313-10, Paragraph 3.04 C.: Delete this Paragraph in its entirety and replace with the following:
“C. Control Wiring and Conduit: Provide control wiring and conduit in order to integrate the MAU controller(s) with the Burner Management Systems of the 4 boilers.”
14. I/O LIST (APPENDIX):
 - a. Devices TCV 6061 and TCV 6062: Change “AOL” computer signal type to read “DOL”.

COMMON DRAWINGS

15. Revised Drawings:
 - a. Drawing Nos. G-001 noted “REVISED DRAWING 8/26/16” accompanies this Addendum and supersedes the same numbered originally issued drawing.

HVAC WORK DRAWINGS

16. Drawing No. M-101, DRAWING NOTES, Note 3: Change last sentence of this Note to read the following:
 - a. “Refer to H drawings for ACM removal quantities.”
17. Drawing No. M-102, DRAWING NOTES:
 - a. Note 9: Change the last sentence of this Note to read the following:
“Refer to H drawings for ACM removal quantities.”
 - b. Note 11: Change the phrase “(Approx. 1350 SQ. FT.)” in this note to read the following:
“(Refer to H drawings for quantities).”
18. Drawing No. M-103, DRAWING NOTES:
 - a. Note 6: Change the last sentence of this Note to read the following:
“Refer to H drawings for ACM removal quantities.”
 - b. Note 9: Change the phrase “(Approx. 1350 SQ. FT.)” in this Note to read the following:
“(Refer to H drawings for quantities).”
19. Drawing No. M-104, DRAWING NOTES, Note 2: Change the phrase “(Approx. 1350 SQ. FT.)” in this Note to read the following:
“(Refer to H drawings for quantities).”
20. Drawing No. M-401, DRAWING NOTES, Note 3: Change the last sentence of this Note to read the following:
“Refer to H drawings for ACM removal quantities. Refer to Project Specification Section 028213”
21. Drawing No. M-701, DRAWING NOTES, Note 2: Delete this Note in its entirety and replace with the following:
 - “2. Pipe Insulation Contains Asbestos. Refer to H drawings for quantities. Refer to Project Specification Section 028213”.
22. Drawing No. M-702, DRAWING NOTES, Note 3: Delete this Note in its entirety and replace with the following:
 - “3. Pipe Insulation Contains Asbestos. Refer to H drawings for quantities. Refer to Project Specification Section 028213”.

23. Drawing No. M-703, DRAWING NOTES, Note 3: Delete this Note in its entirety and replace with the following:
“3. Pipe Insulation Contains Asbestos. Refer to H drawings for quantities. Refer to Project Specification Section 028213”.
24. Drawing No. M-704, DRAWING NOTES, Note 3: Delete this Note in its entirety and replace with the following:
“3. Pipe Insulation Contains Asbestos. Refer to H drawings for quantities. Refer to Project Specification Section 028213”.
25. Drawing No. M-706, DRAWING NOTES:
 - a. Note 2: Delete this Note in its entirety and replace with the following:
“2. Existing Breeching Insulation contains asbestos. Refer to H drawings for quantities.”
 - b. Note 3: Delete this Note in its entirety and replace with the following:
“3. Pipe Insulation Contains Asbestos. Refer to H drawings for quantities. Refer to Project Specification Section 028213.”
26. Drawing No. M-803, I/O LIST:
 - a. Devices TCV 6061 and TCV 6062: Change “AOL” computer signal type to read “DOL”.
27. Revised Drawings:
 - a. Drawing Nos. M-106, M-107, M-108, MS-102, MS-104, and MS-502 noted “REVISED DRAWING 8/26/16” accompany this Addendum and supersede the same numbered originally issued drawings.
28. Addendum Drawings:
 - a. Drawing Nos. H-101, H-102, H-103, H-104 and H-401 noted “ADDENDUM DRAWING 8/26/16” accompany this Addendum and form part of the Contract Documents.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

PROJECT NO. 44985-H

**PROVIDE SUMMER BOILER
POWER HOUSE, BUILDING NO. 28
ELMIRA CORRECTIONAL FACILITY
1879 DAVIS STREET, ELMIRA, NY**

July 20, 2016

**CLIENT: DEPARTMENT OF CORRECTIONS
AND COMMUNITY SUPERVISION**

**PROJECT TEAM LEADER:
WILLIAM J. BUCKLEY, P.E.**

**ASBESTOS PROJECT DESIGNER
AMBIENT ENVIRONMENTAL, INC.
MELANIE OSTERHOUT, PE
DOL LICENSE NUMBER 03-11941**

PREPARED BY

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July 20, 2016



July 20, 2016



SECTION 028213

ASBESTOS ABATEMENT

PART 1 GENERAL

1.01 SUMMARY

- A. This Section specifies the procedures for disturbance and removal of existing asbestos-containing materials (ACM) and disposal of removed materials. The results of the testing for ACM are listed in the Building Asbestos Survey Report bound in the Appendix. Also see Document 003126.
 - 1. The Building Asbestos Survey report was compiled by an ELAP certified laboratory.
 - 2. In order to determine asbestos content, samples were analyzed by polarized light microscopy (PLM) and/or transmission electron microscopy (TEM).
 - 3. The report is intended for State Design and estimate purposes only, and is included to provide bidders with the same information available to the State.
 - 4. The Bulk Samples are representative of like materials in the Work area. All ACM may not have been sampled.

- B. Type of Asbestos Abatement Project:
 - 1. Large Asbestos Abatement Project: An asbestos project involving the removal, disturbance, repair or handling of more than 160 square feet or 260 linear feet of ACM.

- C. The project requires the disturbance and removal of equipment, pipe, pipe fittings, and breeching that is insulated with ACM. Insulation containing asbestos on equipment and materials to be disturbed or removed shall be removed before the equipment or material disturbance or removal in accordance with the project manual and referenced regulations.

- D. The project requires the removal of windows that are presumed to contain hazardous materials including PCB and/or asbestos containing caulk-sealant materials and glazing compound. In the absence of testing to confirm that the existing caulks, sealants, and glazing compound are not PCB or asbestos containing . it shall be assumed that the windows do contain hazardous materials including PCB and/or asbestos containing caulk-sealant materials and shall be handled as such in accordance with the project manual and referenced regulations.

- E. The project requires the removal of a boiler that was constructed in 1972. The boiler is presumed to contain ACM in the construction including, but not limited to, insulation, cements, gaskets/seals, pipe covering, refractory lining, mill board, etc.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Existing Hazardous Material Information: Document 003126.
- B. Summary of the Work: Section 011000.
- C. Construction Facilities and Temporary Controls: Section 015000.
- D. Removals, Cutting, and Patching: Section 017329.
- E. Abatement of PCB Containing Caulk Sealant Materials: Section 028433.

1.03 REFERENCES

- A. New York State Department of Environmental Conservation (DEC) 6NYCRR:
 - 1. Part 360 Solid Waste Management Facilities.
 - 2. Part 364 Waste Transporter Permits.
 - 3. Part 370 Hazardous Waste Management System-General.
 - 4. Part 371 Identification and Listing of Hazardous Wastes.
 - 5. Part 372 Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities.
 - 6. Part 373 Hazardous Waste Management Facilities.
- B. Occupational Safety and Health Administration (OSHA): Asbestos Regulations (29 CFR Part 1926.1101).
- C. U.S. Environmental Protection Agency (USEPA):
 - 1. National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule.
 - 2. Asbestos Emergency Response Act (AHERA) (40 CFR Part 763, Subpart E).
- D. New York State Department of Labor (DOL): Industrial Code Rule 56.

1.04 DEFINITIONS

- A. Authorized Personnel: Facility or the Director's Representative, and all other personnel who are authorized officials of any regulating agency, be it State, Local, Federal or Private entity who possess legal authority for enforcement or inspection of the work.
- B. Clearance Criteria: Shall be determined and established by a Certified Asbestos Project Monitor with an independent testing lab employed by the Director's Representative, conforming to all standards set forth by all authorities having jurisdiction, mentioned in the references, and issue the certification of cleaning.
- C. Site Specific Variance: Relief in accordance with section 30 of the Labor Law from specific sections of Industrial Code Rule 56 for a specific project.
- D. Phase I & II: Asbestos Project phases as defined and subcategorized in ICR 56-2.

1.05 ABBREVIATIONS

- A. ASTM: American Society for Testing and Materials
1916 Race Street
Philadelphia, PA 19103
- B. CFR: Code of Federal Regulations
Government Printing Office
Washington, DC 20402
- C. DOL: New York State Department of Labor
Harriman State Office Building Campus
Albany, NY 12240
- D. NIOSH: National Institute for Occupational Safety and Health
Building J.N.E. Room 3007
Atlanta, GA 30333
- E. OSHA: Occupational Safety and Health Administration
200 Constitution Avenue
Washington, DC 20210
- F. USEPA: United States Environmental Protection Agency
401 M Street SW
Washington, DC 20460

1.06 ASBESTOS SITE SPECIFIC VARIANCE

- A. If a site specific variance is sought, the application must be submitted by the contractor's NYS DOL Certified Asbestos Project Designer with 14 days after the Contract Agreement is approved by the Comptroller. Forward the required forms to the Department of Labor for their action.

1.07 SUBMITTALS

- A. Product Data: Catalog sheets, specifications and installation instructions for each item specified.
- B. Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following:
 - 1. One copy of the completed DOSH-752 form.
 - 2. One copy of the New York State Department of Labor site specific variance decision.
- C. Quality Control Submittals:
 - 1. Notification Compliance Data: Within 2 days after notification is sent to the regulatory agencies submit one copy of each notice sent to each regulatory agency (USEPA and DOL).
 - 2. Asbestos Removal Company Data: Name and address of proposed asbestos removal company and abatement contractor license issued by DOL.

3. Asbestos Worker Certification Data: Name and address of proposed asbestos abatement workers and licenses issued by DOL.
4. Work Plan: For information only, submit one copy of the work plan required under Quality Assurance Article.
5. Waste Transporter Permit: One copy of transporter's current waste transporter permit from NYS DEC (NYS Part 364 Permit).
6. Landfill: Landfill to be used for ACM disposal shall be licensed to receive asbestos waste by NYS DEC (NYS Part 360 Permit) and by USEPA. Out of state landfills shall provide licenses from local agencies having jurisdiction.
7. Negative Air Pressure Equipment: Copy of manufacturer's and performance data of all units and HEPA filters used.

D. Asbestos Work Closeout Submittals:

1. Waste Shipment Records and Disposal Site Receipts: Copy of waste shipment record and disposal site receipt showing that the ACM has been properly disposed.
 - a. Waste shipment record and disposal site receipt must be received within 35 days of the ACM waste leaving the Site. If receipts are not received within the specified time period, the Director's Representative will notify USEPA in writing within 45 days of the ACM waste leaving the Site.

E. Contract Closeout Submittals:

1. Daily Log: Submit copy of Project Monitor's daily air sample log and a copy of Asbestos Abatement Contractor's Daily project log.
2. Air Monitoring Data: Submit copy of air test results and chain of custody.

1.08 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with the referenced standards.
- B. Pre-Work Conference: Before the Work of this Section is scheduled to commence, a conference will be held by the Director's Representative at the Site for the purpose of reviewing the Contract Documents, discussing requirements for the Work, and reviewing the Work procedures.
 1. The conference shall be attended by the Contractor, the asbestos removal subcontractor, and the testing laboratory employed by the Director.
- C. Work Plan: At the conclusion of the pre-work conference, before the physical abatement Work begins, prepare a detailed work plan.
 1. The work plan shall include, but not be limited to, work procedures, types of equipment, details of equipment used, decontamination unit locations, crew size, and emergency procedures for fire and medical emergencies and for failure of containment barriers.
 2. If a site specific variance is sought, do not finalize the work plan until the Department of Labor decision is received.

1.09 PROJECT CONDITIONS

- A. In addition to the postings required by law, post at the entrance to the abatement area the following documents:
 - 1. Copy of the printed Work plan.
 - 2. Copy of Industrial Code Rule 56.
- B. Shut-down of Air Handling System: Complete the Work of this Section within the time limitation allowed for shut-down of the air handling system serving the work area.
 - 1. The air handling system will not be restarted until approval of the air monitoring tests following the last cleaning.
 - 2. If total shut down of the system is not acceptable, follow all regulations for local isolation and provision for temporary HVAC as per DOL regulations.
- C. Maintain electric services to those portions of the building and remaining facility not a part of the asbestos abatement work area at all times. Follow all regulations for electric power shut down exemptions as per DOL regulations.
- D. Do not obstruct any aisle or passageway so as to reduce its required width as an exit.

1.10 HEALTH AND SAFETY

- A. Where in the performance of the work, workers, supervisory personnel or sub-contractors may encounter, disturb, or otherwise function in the immediate vicinity of contaminated items and materials, all personnel shall take appropriate continuous measures as necessary to protect all ancillary building occupants from the potential ACM exposure.
 - 1. Such measures shall include the procedures and methods described herein and shall be in compliance with all applicable regulations of Federal, State and Local agencies.

1.11 FIRE PROTECTION, EMERGENCY EGRESS AND SECURITY

- A. Establish emergency and fire exits from the work area containment. Provide first aid kits and two full sets of protective clothing and respirators for use by qualified emergency personnel outside of the work area.
- B. Provide a logbook throughout the entire term of the project. All persons who enter the regulated abatement work area or enclosure shall sign the logbook. Document any intrusion or incident in the log book.

1.12 PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT

- A. Workers must wear personal protective equipment for all projects as per OSHA and DOL regulations. Provide respiratory protection in accordance with OSHA regulation 1910.134 and ANSI Z88.2.

- B. Workers must be trained as per OSHA and DOL requirements, have medical clearance and must have recently received pulmonary function test (PFT) and respirator fit tested by a trained professional.
 - 1. A personal air sampling program shall be in place as required by OSHA.
 - 2. The use of respirators must also follow a complete respiratory protection program as specified by OSHA.

PART 2 PART 2 PRODUCTS

2.01 DISPOSAL BAGS

- A. Type: Minimum 6 mil thick, black, and preprinted with a Caution Label.

2.02 EQUIPMENT

- A. Temporary lighting, heating, hot water heating units, ground fault interrupters, and all other equipment on site shall be UL listed.
- B. All electrical equipment shall be in compliance with the National Electric Code, Article 305 - Temporary Wiring.

2.03 GLOVE BAGS

- A. Type: Minimum 6 mil thick, clear, fire retardant polyethylene. Select glove bag sizes appropriate for the size and location of the project.

2.04 NEGATIVE AIR PRESSURE UNITS

- A. Type: Local exhaust system, capable of maintaining negative air pressure within the containment, and provides for HEPA filtration of efficiency not less than 99.97 percent with 0.3 micron particles. Equip the unit with filter alarms lights and operation time meter.

2.05 PLASTIC SHEETS

- A. Type: Minimum 6 mil thick, clear, fire retardant polyethylene.

2.06 RESPIRATORS

- A. Type: As approved by the Mine Safety and Health Administration (MSHA), Department of Labor, or the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

2.07 VACUUM CLEANERS

- A. Type: Vacuums equipped with HEPA filters.

PART 3 EXECUTION

3.01 ASBESTOS-CONTAINING MATERIAL HANDLING AND REMOVAL PROCEDURES

- A. Comply with the standards referenced in Part 1 of this Section.

3.02 CLEAN UP PROCEDURES

- A. Comply with the standards referenced in Part 1 of this Section.

3.03 PROJECT AIR SAMPLING, MONITORING AND ANALYSIS

- A. Air Sampling and Analysis: The Director will employ the services of an independent testing laboratory to perform air sample monitoring. The laboratory shall use the methods described in standards referenced in Part 1 of this Section.
 - 1. The equipment, duration, flow rate, calibration of equipment, number and location of samples are as per ICR 56-4.
 - 2. Air sampling technician shall be on site to observe and maintain air sampling equipment for the duration of the air sampling collection.
 - 3. Period of time permitted between completion of air sample collection and receipt of results on the project site shall be equal or less than 48 hours.
- B. If air samples collected outside the regulated work area indicate airborne fiber concentrations at or above 0.01 fibers per cubic centimeter, or the established background level, whichever is greater, work shall stop immediately for inspection of barriers and negative air ventilation systems. Clean up surfaces outside the regulated work area using HEPA filter equipped vacuums and wet cleaning methods. Work methods shall be altered to reduce fiber concentrations to acceptable levels.
- C. Elevated air sample results, if any, along with background and all other air sample results collected during Phase IIA through Phase IIC shall be submitted to the Commissioner of appropriate Asbestos Control Bureau within the same business day of receipt of results.

3.04 FINAL CLEANING AND CLEARANCE PROCEDURES

- A. Negative Pressure Ventilation: Negative air pressure machines if used, shall remain in continuous operation during the entire length of the project.
- B. Cleaning and Visual Inspection: After first, second, third cleaning and required waiting/settling and drying periods, perform a final visual inspection.
 - 1. Final clearance air sampling shall commence after the waiting/settling and drying time as per ICR 56 has elapsed.
- C. Project Monitor Visual Inspection: The Director will employ the services of a DOL certified asbestos project monitor employed by an independent testing laboratory to perform visual inspection as required by ICR 56.
- D. Final Clearance Air Sampling: The Director will employ the services of an independent testing laboratory to perform final air sampling.

1. The laboratory shall use the methods described in standards referenced in Part 1 of this Section.
 2. The equipment, duration, flow rate, calibration of equipment, number and location of samples are as per ICR 56-4.
 3. If initial Post-Abatement (Clearance Air) Monitoring results do not comply with the standards referenced in Part 1 of this Section the Contractor shall either re-clean or order a full set of TEM analysis.
 - a. Results of the TEM analysis will be conclusive, and if the results do not comply with the standards referenced in Part 1 of this Section, the Contractor shall re-clean and additional full set of air samples will be collected and analyzed until the standards are met.
 - b. All satisfactory PCM clearance air sample results along with background air sample results, if they are greater than or equal to 0.01 fibers per cubic centimeter, shall be submitted to the Commissioner of appropriate Asbestos Control Bureau within two business days of receipt of satisfactory clearance air results.
 - c. All satisfactory TEM results of previously unsatisfactory PCM clearance air sample results, along with the unsatisfactory PCM results shall be submitted to the Commissioner of appropriate Asbestos Control Bureau within two business days of receipt of satisfactory clearance air results.
 4. Prior to removal of isolation barriers the Director's Representative at the site will receive an affidavit from the air monitoring laboratory certifying the final air samples comply with the standards referenced in Part 1 of this Section.
- E. Dismantling of Regulated Abatement Work Area:
1. Remove all tools and equipment after proper decontamination as per Part 1 of this section.
 2. Dismantle and remove each tent enclosure and air lock and any barriers only after final clearance air monitoring has been performed and satisfactory results obtained.
 3. All remaining polyethylene, duct tape, expandable foam and other barrier materials shall be bagged, wrapped, containerized and labeled as asbestos waste.
 4. Remove all temporary hard walled barriers from site.
 5. Dismantle any remote decontamination units and plastic sheeting shall be disposed as asbestos waste.
 6. Remove all waste generated to the holding area, lockable trailer or dumpster.
 7. Contractor's Supervisor shall certify in writing to the Director that abatement work is complete and no debris/residue remains.

3.05 DISPOSAL OF ASBESTOS-CONTAINING MATERIAL AND RELATED DEBRIS

- A. Remove all waste generated as part of the asbestos project from the project site within ten calendar days from the site after completion of Phase IIC of the project or within one day of the waste disposal container/trailer becomes full, whichever occurs first.

- B. Transport and dispose of all the asbestos-containing waste, related debris, and waste water to the approved disposal site.
- C. All generated waste removed from the site must be documented, accounted for and disposed of in compliance with the requirements of USEPA NESHAP.
- D. Comply also with the standards referenced in Part 1 of this Section.

3.06 RESTORATION

- A. Remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.
- B. Where existing work is damaged or contaminated, restore work to its original condition or better.

END OF SECTION

PROVIDE SUMMER BOILER, POWER HOUSE, BUILDING No.28

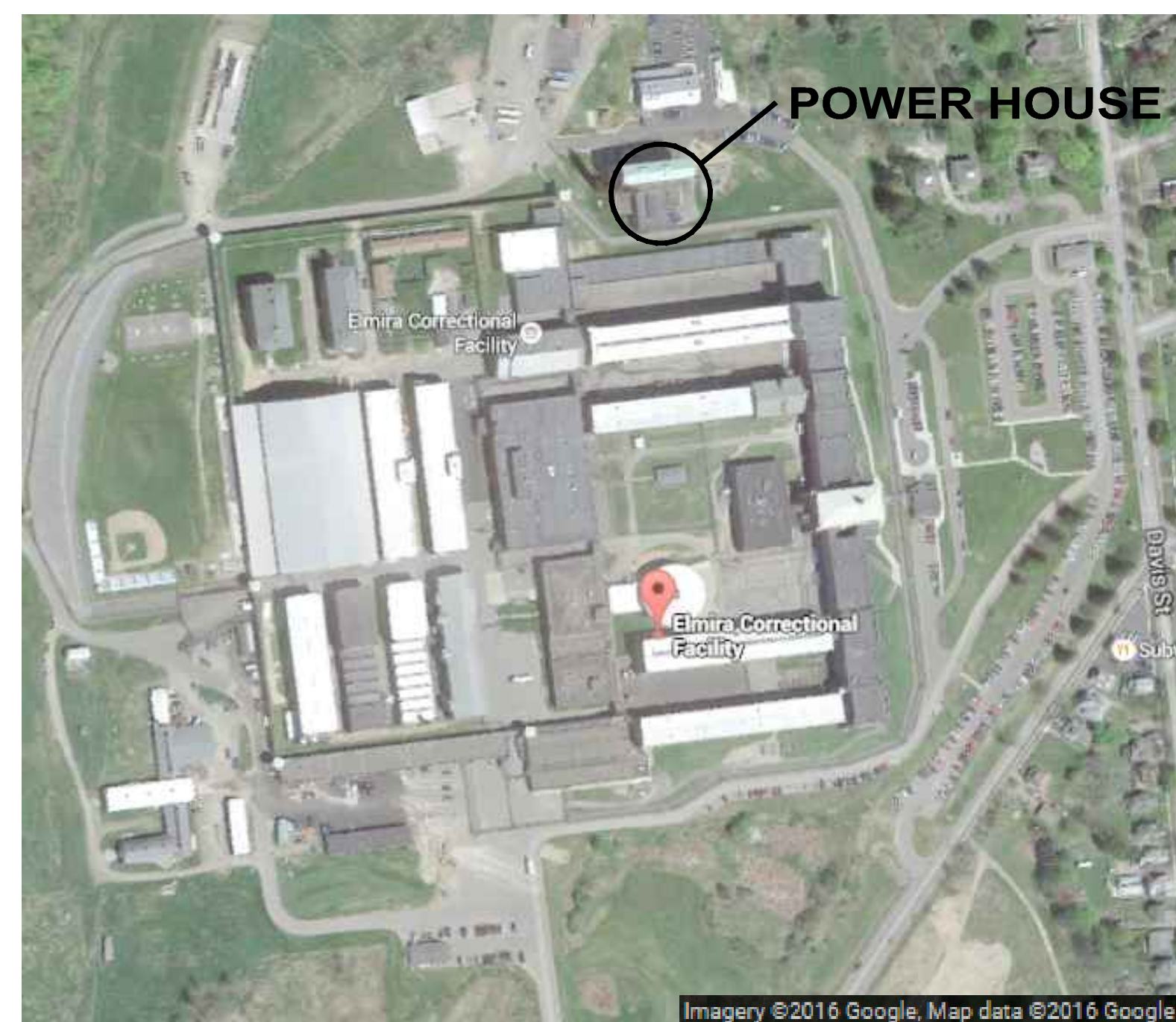
ELMIRA CORRECTIONAL FACILITY 1879 DAVIS STREET, ELMIRA, NY

O.G.S. PROJECT NO. 44985-H & E

JULY 20, 2016

BID DOCUMENTS

rmf RMF ENGINEERING, INC., P.C.
5520 RESEARCH PARK DR. SUITE 300
BALTIMORE, MD 21228



LOCATION PLAN (NO SCALE)

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HVAC CONTRACT

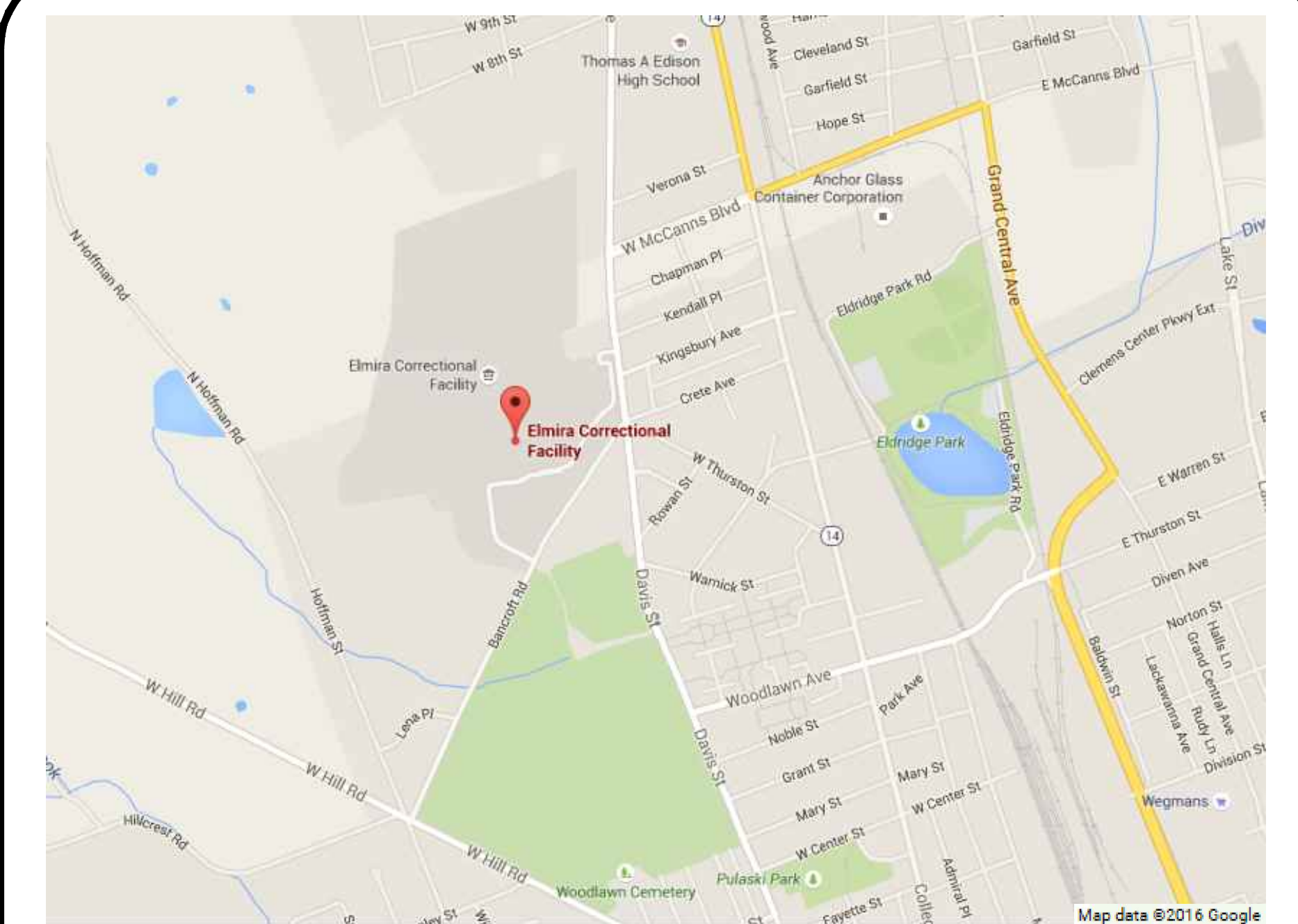
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- MS-104 - BLDG. 28 - POWER HOUSE - MEZZANINE PART PLAN - NEW WORK
- MS-301 - PARTIAL BUILDING SECTIONS
- MS-302 - PARTIAL BUILDING SECTION
- MS-501 - DETAILS
- MS-502 - DETAILS

- H-101 - BLDG. 28 - POWER HOUSE - BASEMENT PART PLAN - ABATEMENT
- H-102 - BLDG. 28 - POWER HOUSE - OPERATING FLOOR PLAN - ABATEMENT
- H-103 - BLDG. 28 - POWER HOUSE - MEZZANINE LEVEL PLAN - ABATEMENT
- H-104 - BLDG. 28 - POWER HOUSE - UPPER LEVEL BREECHING PLAN - ABATEMENT
- H-401 - BLDG. 28 - POWER HOUSE - BASEMENT PART PLAN - ABATEMENT

ELECTRICAL CONTRACT

- G-001 - TITLE SHEET
- E-001 - ELECTRICAL LEGEND AND ABBREVIATIONS SHEET
- E-101 - BLDG. 28 - POWER HOUSE - BASEMENT PART PLAN - REMOVALS
- E-102 - BLDG. 28 - POWER HOUSE - OPERATING FLOOR PLAN - REMOVALS
- E-103 - BLDG. 28 - POWER HOUSE - MEZZANINE LEVEL PLAN - REMOVALS
- E-106 - BLDG. 28 - POWER HOUSE - BASEMENT PART PLAN
- E-107 - BLDG. 28 - POWER HOUSE - OPERATING FLOOR PLAN
- E-108 - BLDG. 28 - POWER HOUSE - MEZZANINE LEVEL PLAN
- E-201 - ELECTRICAL ELEVATIONS
- E-202 - ELECTRICAL DETAILS
- E-601 - ELECTRICAL SCHEDULES
- E-701 - ELECTRICAL SINGLE LINE DIAGRAM - REMOVALS
- E-702 - ELECTRICAL SINGLE LINE DIAGRAM - NEW WORK



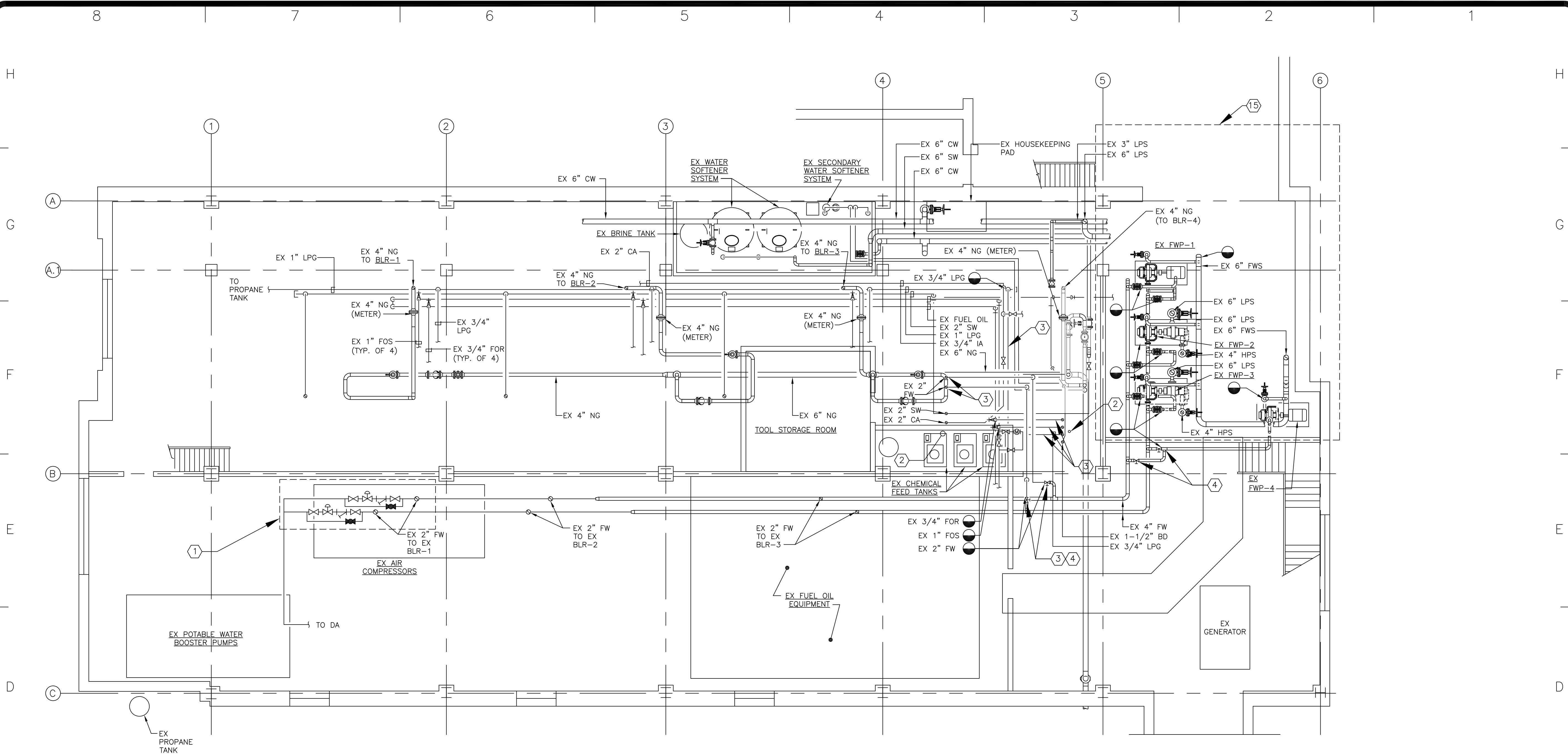
VICINITY MAP (NO SCALE)



DESIGN & CONSTRUCTION

REVISED DRAWING
08/26/16

G-001



GENERAL HAZARDOUS MATERIAL NOTES

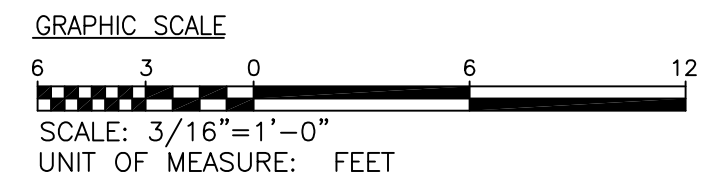
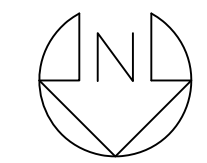
- THE PROJECT INVOLVES THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM) FROM BUILDING 28 AT THE ELMIRA CORRECTIONAL FACILITY. THE FOLLOWING MATERIALS TESTED POSITIVE FOR ACM: BOILER EXHAUST BREECING, PIPE INSULATION AND PIPE FITTING INSULATION. SEE SPECIFICATION SECTION 003126 AND APPENDIX FOR SAMPLE LOCATIONS AND TEST RESULTS. THE PROJECT ALSO INVOLVES THE REMEDIATION AND DISPOSAL OF BIRD, BAT AND/OR RODENT DROPPINGS. ADDITIONAL MATERIALS THAT HAVE NOT BEEN ACCESSIBLE OR CONFIRMED POSITIVE ARE BEING SCHEDULED FOR REMOVAL AND DISPOSAL AS ASBESTOS CONTAINING MATERIALS.
- SEE SPECIFICATION SECTION 028213 FOR ASBESTOS ABATEMENT. SEE SPECIFICATION SECTION 028304 FOR HANDLING OF LEAD CONTAINING MATERIALS. SEE SPECIFICATION SECTION 028433 FOR ABATEMENT OF PCB CONTAINING CAULK. SEE SPECIFICATION SECTION 028733 FOR BIRD, BAT AND RODENT DROPPINGS REMEDIATION AND DISPOSAL.
- EXISTING PAINTED SURFACES HAVE BEEN DETERMINED TO CONTAIN LEAD. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPREAD OF DUST AND PARTICLES DURING REMOVALS. THE USE OF SAW-CUTTING, WELDING, TORCHING AND/OR GRINDING IS STRICTLY PROHIBITED.
- THE DRAWING DOES NOT SHOW MOVABLE OBJECTS WITHIN THE WORK ZONES. THE CONTRACTOR IS ALONE RESPONSIBLE FOR DETERMINING THE ACTUAL QUANTITIES OF HAZARDOUS MATERIALS AND COORDINATING THE RELOCATION OF ANY ITEMS WITH THE DIRECTOR'S REPRESENTATIVE.
- THE HAZARDOUS MATERIALS ABATEMENT SCHEDULES ON THE DRAWINGS LIST APPROXIMATE QUANTITIES FOR REMOVAL. COORDINATE LOCATIONS, TIMING AND EXTENTS OF ALL REMOVALS WITH THE "H" CONTRACTOR.
- THIS FACILITY WILL BE OCCUPIED DURING CONSTRUCTION WORK.
- SHUT DOWN AND ISOLATE EXISTING MECHANICAL EQUIPMENT SYSTEMS TO PREVENT CONTAMINATION AND DISPERSAL TO OTHER AREAS IN THE BUILDING. COORDINATE WITH THE DIRECTOR'S REPRESENTATIVE.
- ANY CRITICAL ELECTRICAL RUNS THROUGH THE REGULATED WORK AREA SHALL REMAIN ACTIVE DURING THE ENTIRE ABATEMENT PROCESS.
- ALL SCHEDULED ABATEMENT AND REMEDIATION WORK SHALL BE COORDINATED WITH THE DIRECTOR'S REPRESENTATIVE. FOLLOW ALL RULES AND REGULATIONS OF NYS ICR 56, EPA, OSHA AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS DURING THE ENTIRE PROJECT.
- CONTRACTOR SHALL ATTEND A PRE-WORK CONFERENCE AND PROVIDE A DETAILED ABATEMENT AND REMEDIATION WORK PLAN FOR REVIEW.
- CONTRACTOR IS RESPONSIBLE FOR ON-SITE SAFETY AND SECURITY OF HIS/HER EMPLOYEES DURING ALL HAZARDOUS REMOVAL ACTIVITIES. CONTRACTOR ALSO ASSUMES RESPONSIBILITY FOR PROCEEDING WITH THE WORK IN A MANNER THAT OFFERS THEIR EMPLOYEES A WORKPLACE FREE FROM RECOGNIZED HAZARDS CAUSING SERIOUS HEALTH, HARM OR INJURY.
- PROVIDE TO THE DIRECTOR'S REPRESENTATIVE ALL WASTE TRANSPORTER PERMITS, WASTE DISPOSAL RECEIPTS AND THE CONTRACTORS POST ABATEMENT REPORT. SEE THE CLOSEOUT SUBMITTAL SECTION IN EACH OF THE ABATEMENT SPEC SECTIONS FOR DETAILS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT LANDFILL DOES ACCEPT ALL OF THE TYPES OF HAZARDOUS MATERIALS WITHIN THE PROJECT SCOPE OF WORK.
- CONSTRUCTION REMOVAL WORK OR ANY OTHER WORK IN THESE AREAS SHALL COMMENCE ONLY AFTER THE HAZARDOUS MATERIAL REMOVAL WORK IS COMPLETED AND ONLY AFTER THE NECESSARY CLEARANCES ARE OBTAINED.
- UPON COMPLETION OF HAZARDOUS MATERIAL REMOVALS WORK, ANY EXISTING AREAS AND/OR FINISHES THAT HAVE BEEN DAMAGED THAT ARE NOT PART OF THE REMOVAL SCOPES OF WORK (INCLUDES AREAS AND/OR FINISHES AS A RESULT OF ANY TEMPORARY PARTITIONS AND WASTE DECON UNIT ENCLOSURES CONSTRUCTION) SHALL BE RESTORED TO EXISTING CONDITION AT THE START OF WORK BY THE CONTRACTOR AT CONTRACTORS EXPENSE. FINISH RESTORATION SHALL BE APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
- REFER TO DRAWINGS M-301 THROUGH M-104, M-401 AND M-701 THROUGH M-706 FOR ADDITIONAL INFORMATION CONCERNING PIPE AND COMPONENT REMOVALS.

ASBESTOS REMOVAL KEY NOTES

- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDED FITTING INSULATION IN THIS AREA. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF PIPE INSULATION JACKET, PIPE INSULATION AND MUDDED FITTING INSULATION FROM THE COLD WATER RISER. INCLUDE REMOVAL OF INSULATION WITHIN ONE FOOT OF THE RISER FITTING. INCLUDE REMOVAL OF INSULATION IN THE PENETRATION TO THE FLOOR ABOVE.
- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDED FITTING INSULATION FROM THE IDENTIFIED PIPES AND/OR HEADERS. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF THE FLANGE GASKETS AT VALVES WHERE PIPE REMOVAL IS TERMINATING AT THE VALVE UNIT AND WHERE VALVES ARE BEING REMOVED.
- REMOVE AND DISPOSE OF THE BOILER, INCLUDING ALL ASSOCIATED INSULATION, CEMENTS, GASKETS/SEALS, PIPE COVERING, REFRACTORY LINING, MILL BOARD, ETC. DIMENSIONS OF THE BOILER ARE APPROXIMATELY 11 FEET WIDE, 17 FEET LONG AND 13 FEET HIGH.
- REMOVE AND DISPOSE OF THE BREECHING IN ITS ENTIRETY FROM THE OPERATING LEVEL OF THE BOILER ROOM TO THE IDENTIFIED EXPANSION JOINT. WHILE THE DIAMETER IS IDENTIFIED AS 42 INCHES, THE OUTER DIAMETER OF THE INSULATION JACKET IS APPROXIMATELY 60 INCHES.
- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDED FITTING INSULATION FROM THE IDENTIFIED PIPES. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDED INSULATION AS ASBESTOS CONTAMINATED WASTE. INCLUDE REMOVAL OF ALL PIPE INSULATION IN THE PENETRATION TO THE FLOOR BELOW. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF APPROXIMATELY 3 LINEAR FEET OF PIPE INSULATION AND MUDDED FITTING INSULATION AT THE IDENTIFIED LOCATIONS.
- REMOVE AND DISPOSE OF APPROXIMATELY 5 LINEAR FEET OF PIPE INSULATION AND MUDDED FITTING INSULATION AT THE IDENTIFIED LOCATIONS.
- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDED FITTING INSULATION FROM THE IDENTIFIED PIPES. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDED FITTING INSULATION IMMEDIATELY ADJACENT TO THE VALVE SCHEDULED FOR REMOVAL.
- REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDED FITTING INSULATION FROM THE RISER ADJACENT TO DEAEATOR UNIT DA-1.
- REMOVE AND DISPOSE OF THE LOUVER AND INDICATED WINDOW UNITS FROM THE WEST AND ELEVATIONS AT THE LOCATIONS IDENTIFIED ON DRAWINGS MS-301, DETAIL 1 AND MS-501, DETAILS 3 AND 7. INCLUDE REMOVAL OF ALL CAULK AND WINDOW GLAZING COMPOUND. CAULK AND WINDOW GLAZING COMPOUND ASSOCIATED WITH THE WINDOWS AND LOUVERS ARE PRESUMED TO BE ASBESTOS CONTAINING AND PCB CONTAINING MATERIALS.
- CLEANUP AND DISPOSE OF BIRD, BAT AND/OR RODENT DROPPINGS PRESENT ON THE OPERATING AND MEZZANINE LEVELS AND ON TOP OF THE BOILER AND OTHER COMPONENTS SCHEDULED FOR REMOVAL. COORDINATE CLEANUP LOCATIONS WITH ALL OTHER CONTRACTORS.
- REFER TO LARGE SCALE PART PLANS ON H-401 FOR EXISTING AND ABATEMENT OF PIPING IN THIS AREA.

HAZARDOUS MATERIALS ABATEMENT SCHEDULE		
REMOVAL NOTES	MATERIAL DESCRIPTION	TOTAL QUANTITY
1	PIPE AND FITTING INSULATION	112 LINEAR FEET
2	PIPE AND FITTING INSULATION	16 LINEAR FEET
3	PIPE AND FITTING INSULATION	340 LINEAR FEET
4	FLANGE GASKETS AT VALVES	24 EACH
5	BOILER (APPROXIMATELY 17'X11'X13')	1 EACH
6	BREECHING	4 SQUARE FEET
	BREECHING INSULATION	680 SQUARE FEET
7	PIPE AND FITTING INSULATION	118 LINEAR FEET
8	PIPE AND FITTING INSULATION	18 LINEAR FEET
9	PIPE AND FITTING INSULATION	15 LINEAR FEET
10	PIPE AND FITTING INSULATION	44 LINEAR FEET
11	PIPE AND FITTING INSULATION	3 LINEAR FEET
12	PIPE AND FITTING INSULATION	3 LINEAR FEET
13	LOUVER UNIT (APPROXIMATELY 7'X11'4")	1 EACH
	WINDOW UNITS WITH GLAZING COMPOUND	209 SQUARE FEET
	CAULK ASSOCIATED WITH LOUVER AND WINDOW UNITS	85 LINEAR FEET
14	BIRD, BAT AND/OR RODENT DROPPINGS	600 SQUARE FEET

ADDENDUM DRAWING
08/26/16



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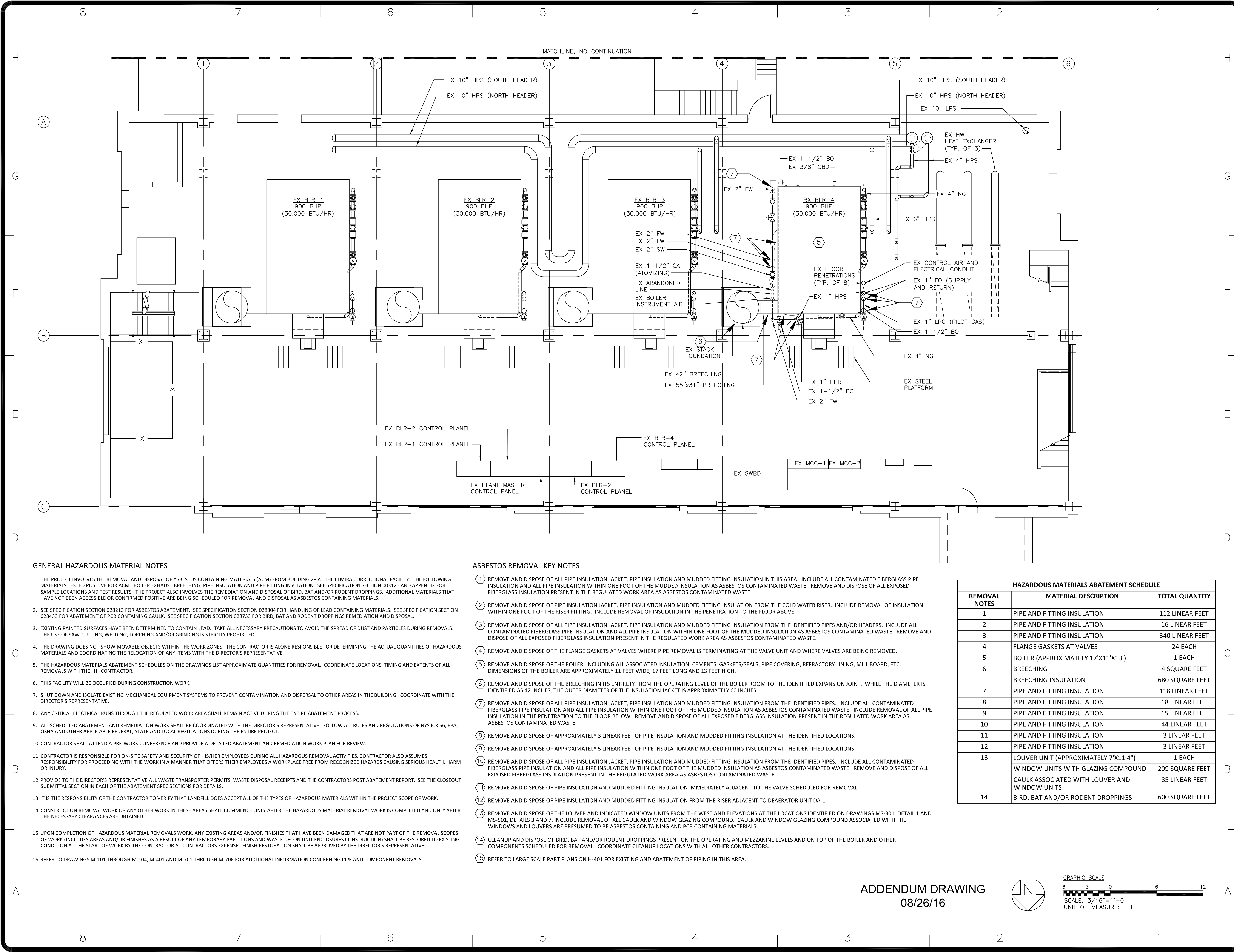
CONTRACT: HVAC
TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28
LOCATION: ELMIRA CORRECTIONAL FACILITY
1879 DAVIS STREET
ELMIRA, NY 14902
CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS

PROJECT NUMBER: 44985-H
DESIGNED BY: GSC
DRAWN BY: KEK
FIELD CHECK: GSC
APPROVED: VGB

BLDG. 28 - POWER HOUSE - BASEMENT PART PLAN - ABATEMENT

DRAWING NUMBER: H-101
SHEET XX OF



GENERAL HAZARDOUS MATERIAL NOTES

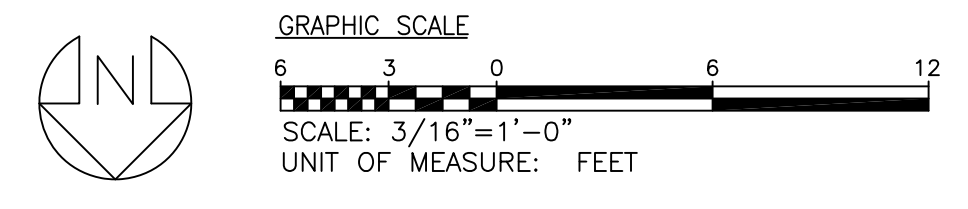
1. THE PROJECT INVOLVES THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM) FROM BUILDING 28 AT THE ELMIRA CORRECTIONAL FACILITY. THE FOLLOWING MATERIALS TESTED POSITIVE FOR ACM: BOILER EXHAUST BREECHING, PIPE INSULATION AND PIPE FITTING INSULATION. SEE SPECIFICATION SECTION 003126 AND APPENDIX FOR SAMPLE LOCATIONS AND TEST RESULTS. THE PROJECT ALSO INVOLVES THE REMEDIATION AND DISPOSAL OF BIRD, BAT AND/OR RODENT DROPPINGS. ADDITIONAL MATERIALS THAT HAVE NOT BEEN ACCESSIBLE OR CONFIRMED POSITIVE ARE BEING SCHEDULED FOR REMOVAL AND DISPOSAL AS ASBESTOS CONTAINING MATERIALS.
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3. EXISTING PAINTED SURFACES HAVE BEEN DETERMINED TO CONTAIN LEAD. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPREAD OF DUST AND PARTICLES DURING REMOVALS. THE USE OF SAW-CUTTING, WELDING, TORCHING AND/OR GRINDING IS STRICTLY PROHIBITED.
4. THE DRAWING DOES NOT SHOW MOVABLE OBJECTS WITHIN THE WORK ZONES. THE CONTRACTOR IS ALONE RESPONSIBLE FOR DETERMINING THE ACTUAL QUANTITIES OF HAZARDOUS MATERIALS AND COORDINATING THE RELOCATION OF ANY ITEMS WITH THE DIRECTOR'S REPRESENTATIVE.
5. THE HAZARDOUS MATERIALS ABATEMENT SCHEDULES ON THE DRAWINGS LIST APPROXIMATE QUANTITIES FOR REMOVAL. COORDINATE LOCATIONS, TIMING AND EXTENTS OF ALL REMOVALS WITH THE "H" CONTRACTOR.
6. THIS FACILITY WILL BE OCCUPIED DURING CONSTRUCTION WORK.
7. SHUT DOWN AND ISOLATE EXISTING MECHANICAL EQUIPMENT SYSTEMS TO PREVENT CONTAMINATION AND DISPERSAL TO OTHER AREAS IN THE BUILDING. COORDINATE WITH THE DIRECTOR'S REPRESENTATIVE.
8. ANY CRITICAL ELECTRICAL RUNS THROUGH THE REGULATED WORK AREA SHALL REMAIN ACTIVE DURING THE ENTIRE ABATEMENT PROCESS.
9. ALL SCHEDULED ABATEMENT AND REMEDIATION WORK SHALL BE COORDINATED WITH THE DIRECTOR'S REPRESENTATIVE. FOLLOW ALL RULES AND REGULATIONS OF NYS ICR 56, EPA, OSHA AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS DURING THE ENTIRE PROJECT.
10. CONTRACTOR SHALL ATTEND A PRE-WORK CONFERENCE AND PROVIDE A DETAILED ABATEMENT AND REMEDIATION WORK PLAN FOR REVIEW.
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12. PROVIDE TO THE DIRECTOR'S REPRESENTATIVE ALL WASTE TRANSPORTER PERMITS, WASTE DISPOSAL RECEIPTS AND THE CONTRACTORS POST ABATEMENT REPORT. SEE THE CLOSEOUT SUBMITTAL SECTION IN EACH OF THE ABATEMENT SPEC SECTIONS FOR DETAILS.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT LANDFILL DOES ACCEPT ALL OF THE TYPES OF HAZARDOUS MATERIALS WITHIN THE PROJECT SCOPE OF WORK.
14. CONSTRUCTION REMOVAL WORK OR ANY OTHER WORK IN THESE AREAS SHALL COMMENCE ONLY AFTER THE HAZARDOUS MATERIAL REMOVAL WORK IS COMPLETED AND ONLY AFTER THE NECESSARY CLEARANCES ARE OBTAINED.
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16. REFER TO DRAWINGS M-101 THROUGH M-104, M-401 AND M-701 THROUGH M-706 FOR ADDITIONAL INFORMATION CONCERNING PIPE AND COMPONENT REMOVALS.

ASBESTOS REMOVAL KEY NOTES

1. REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION IN THIS AREA. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
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4. REMOVE AND DISPOSE OF THE FLANGE GASKETS AT VALVES WHERE PIPE REMOVAL IS TERMINATING AT THE VALVE UNIT AND WHERE VALVES ARE BEING REMOVED.
5. REMOVE AND DISPOSE OF THE BOILER, INCLUDING ALL ASSOCIATED INSULATION, CEMENTS, GASKETS/SEALS, PIPE COVERING, REFRACTORY LINING, MILL BOARD, ETC. DIMENSIONS OF THE BOILER ARE APPROXIMATELY 11 FEET WIDE, 17 FEET LONG AND 13 FEET HIGH.
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11. REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDIED FITTING INSULATION IMMEDIATELY ADJACENT TO THE VALVE SCHEDULED FOR REMOVAL.
12. REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE RISER ADJACENT TO DEAERATOR UNIT DA-1.
13. REMOVE AND DISPOSE OF THE LOUVER AND INDICATED WINDOW UNITS FROM THE WEST AND ELEVATIONS AT THE LOCATIONS IDENTIFIED ON DRAWINGS MS-301, DETAIL 1 AND MS-501, DETAILS 3 AND 7. INCLUDE REMOVAL OF ALL CAULK AND WINDOW GLAZING COMPOUND. CAULK AND WINDOW GLAZING COMPOUND ASSOCIATED WITH THE WINDOWS AND LOUVERS ARE PRESUMED TO BE ASBESTOS CONTAINING AND PCB CONTAINING MATERIALS.
14. CLEANUP AND DISPOSE OF BIRD, BAT AND/OR RODENT DROPPINGS PRESENT ON THE OPERATING AND MEZZANINE LEVELS AND ON TOP OF THE BOILER AND OTHER COMPONENTS SCHEDULED FOR REMOVAL. COORDINATE CLEANUP LOCATIONS WITH ALL OTHER CONTRACTORS.
15. REFER TO LARGE SCALE PART PLANS ON H-401 FOR EXISTING AND ABATEMENT OF PIPING IN THIS AREA.

HAZARDOUS MATERIALS ABATEMENT SCHEDULE		
REMOVAL NOTES	MATERIAL DESCRIPTION	TOTAL QUANTITY
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4	FLANGE GASKETS AT VALVES	24 EACH
5	BOILER (APPROXIMATELY 17'X11'X13')	1 EACH
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	BREECHING INSULATION	680 SQUARE FEET
7	PIPE AND FITTING INSULATION	118 LINEAR FEET
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9	PIPE AND FITTING INSULATION	15 LINEAR FEET
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14	BIRD, BAT AND/OR RODENT DROPPINGS	600 SQUARE FEET

ADDENDUM DRAWING
08/26/16



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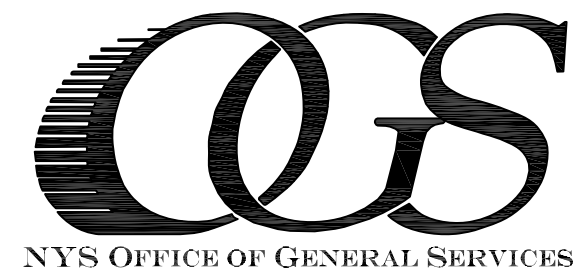


CONTRACT: HVAC
TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28
LOCATION: ELMIRA CORRECTIONAL FACILITY, 1879 DAVIS STREET, ELMIRA, NY 14902
CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS

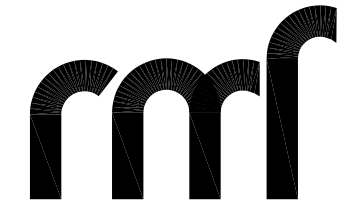
PROJECT NUMBER: 44985-H
DESIGNED BY: JPM
DRAWN BY: KEC
FIELD CHECK: GSC
APPROVED: VGB

SHEET TITLE: BLDG. 28 - POWER HOUSE - OPERATING FLOOR PLAN - ABATEMENT
DRAWING NUMBER: H-102
SHEET XX OF

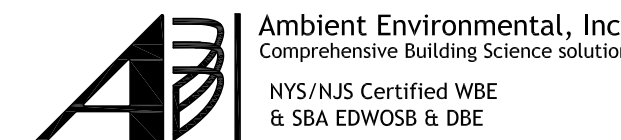


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 ANDREW M. CUOMO
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 ROANN M. DESTITO
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CONSULTANT



RMF ENGINEERING, INC., P.C.
 5520 RESEARCH PARK DR., SUITE 300
 BALTIMORE, MD 21228



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 & SBA EDWSB & DBE

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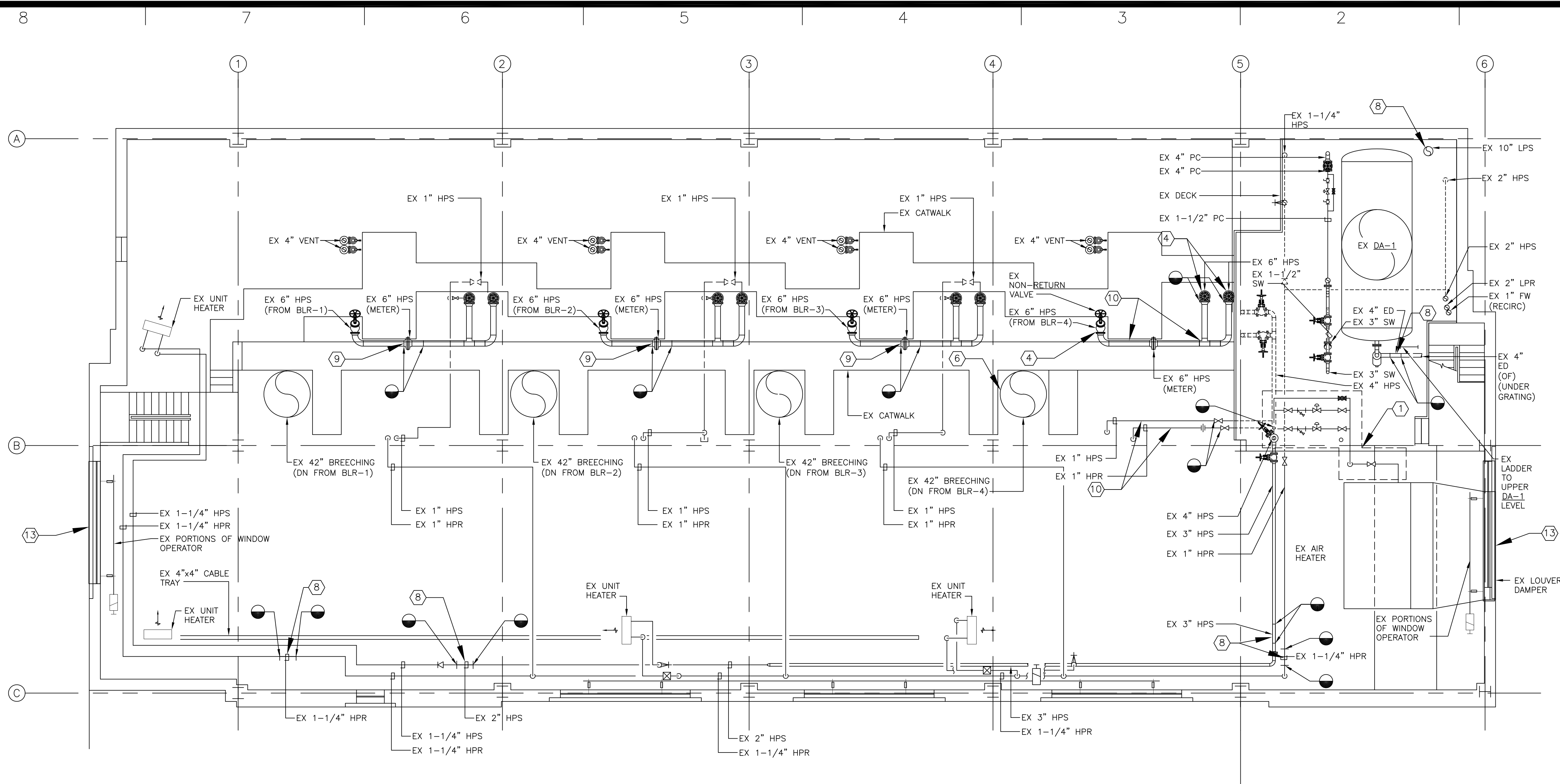


CONTRACT: HVAC
TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28
LOCATION: ELMIRA CORRECTIONAL FACILITY, 1879 DAVIS STREET, ELMIRA, NY 14902
CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	BID DOCUMENTS
2	08-26-16	ADDENDUM No. 1
1	07-20-16	BID DOCUMENTS

PROJECT NUMBER: 44985-H
DESIGNED BY: GSC
DRAWN BY: KEK
FIELD CHECK: GSC
APPROVED: vgb
SHEET TITLE:

BLDG. 28 - POWER HOUSE - MEZZANINE LEVEL PLAN - ABATEMENT
DRAWING NUMBER: H-103
 SHEET XX OF



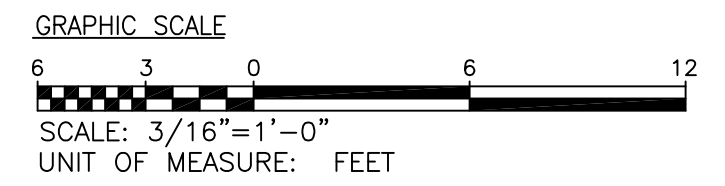
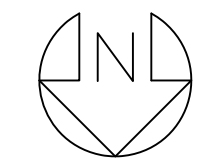
- GENERAL HAZARDOUS MATERIAL NOTES**
- THE PROJECT INVOLVES THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM) FROM BUILDING 28 AT THE ELMIRA CORRECTIONAL FACILITY. THE FOLLOWING MATERIALS TESTED POSITIVE FOR ACM: BOILER EXHAUST BREECHING, PIPE INSULATION AND PIPE FITTING INSULATION. SEE SPECIFICATION SECTION 003126 AND APPENDIX FOR SAMPLE LOCATIONS AND TEST RESULTS. THE PROJECT ALSO INVOLVES THE REMEDIATION AND DISPOSAL OF BIRD, BAT AND/OR RODENT DROPPINGS. ADDITIONAL MATERIALS THAT HAVE NOT BEEN ACCESSIBLE OR CONFIRMED POSITIVE ARE BEING SCHEDULED FOR REMOVAL AND DISPOSAL AS ASBESTOS CONTAINING MATERIALS.
 - SEE SPECIFICATION SECTION 028213 FOR ASBESTOS ABATEMENT. SEE SPECIFICATION SECTION 028304 FOR HANDLING OF LEAD CONTAINING MATERIALS. SEE SPECIFICATION SECTION 028433 FOR ABATEMENT OF PCB CONTAINING CAULK. SEE SPECIFICATION SECTION 028733 FOR BIRD, BAT AND RODENT DROPPINGS REMEDIATION AND DISPOSAL.
 - EXISTING PAINTED SURFACES HAVE BEEN DETERMINED TO CONTAIN LEAD. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPREAD OF DUST AND PARTICLES DURING REMOVALS. THE USE OF SAW-CUTTING, WELDING, TORCHING AND/OR GRINDING IS STRICTLY PROHIBITED.
 - THE DRAWING DOES NOT SHOW MOVABLE OBJECTS WITHIN THE WORK ZONES. THE CONTRACTOR IS ALONE RESPONSIBLE FOR DETERMINING THE ACTUAL QUANTITIES OF HAZARDOUS MATERIALS AND COORDINATING THE RELOCATION OF ANY ITEMS WITH THE DIRECTOR'S REPRESENTATIVE.
 - THE HAZARDOUS MATERIALS ABATEMENT SCHEDULES ON THE DRAWINGS LIST APPROXIMATE QUANTITIES FOR REMOVAL. COORDINATE LOCATIONS, TIMING AND EXTENTS OF ALL REMOVALS WITH THE "H" CONTRACTOR.
 - THIS FACILITY WILL BE OCCUPIED DURING CONSTRUCTION WORK.
 - SHUT DOWN AND ISOLATE EXISTING MECHANICAL EQUIPMENT SYSTEMS TO PREVENT CONTAMINATION AND DISPERSAL TO OTHER AREAS IN THE BUILDING. COORDINATE WITH THE DIRECTOR'S REPRESENTATIVE.
 - ANY CRITICAL ELECTRICAL RUNS THROUGH THE REGULATED WORK AREA SHALL REMAIN ACTIVE DURING THE ENTIRE ABATEMENT PROCESS.
 - ALL SCHEDULED ABATEMENT AND REMEDIATION WORK SHALL BE COORDINATED WITH THE DIRECTOR'S REPRESENTATIVE. FOLLOW ALL RULES AND REGULATIONS OF NYS ICR 56, EPA, OSHA AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS DURING THE ENTIRE PROJECT.
 - CONTRACTOR SHALL ATTEND A PRE-WORK CONFERENCE AND PROVIDE A DETAILED ABATEMENT AND REMEDIATION WORK PLAN FOR REVIEW.
 - CONTRACTOR IS RESPONSIBLE FOR ON-SITE SAFETY AND SECURITY OF HIS/HER EMPLOYEES DURING ALL HAZARDOUS REMOVAL ACTIVITIES. CONTRACTOR ALSO ASSUMES RESPONSIBILITY FOR PROCEEDING WITH THE WORK IN A MANNER THAT OFFERS THEIR EMPLOYEES A WORKPLACE FREE FROM RECOGNIZED HAZARDS CAUSING SERIOUS HEALTH, HARM OR INJURY.
 - PROVIDE TO THE DIRECTOR'S REPRESENTATIVE ALL WASTE TRANSPORTER PERMITS, WASTE DISPOSAL RECEIPTS AND THE CONTRACTORS POST ABATEMENT REPORT. SEE THE CLOSEOUT SUBMITTAL SECTION IN EACH OF THE ABATEMENT SPEC SECTIONS FOR DETAILS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT LANDFILL DOES ACCEPT ALL OF THE TYPES OF HAZARDOUS MATERIALS WITHIN THE PROJECT SCOPE OF WORK.
 - CONSTRUCTION REMOVAL WORK OR ANY OTHER WORK IN THESE AREAS SHALL COMMENCE ONLY AFTER THE HAZARDOUS MATERIAL REMOVAL WORK IS COMPLETED AND ONLY AFTER THE NECESSARY CLEARANCES ARE OBTAINED.
 - UPON COMPLETION OF HAZARDOUS MATERIAL REMOVALS WORK, ANY EXISTING AREAS AND/OR FINISHES THAT HAVE BEEN DAMAGED THAT ARE NOT PART OF THE REMOVAL SCOPES OF WORK (INCLUDES AREAS AND/OR FINISHES AS A RESULT OF ANY TEMPORARY PARTITIONS AND WASTE DECON UNIT ENCLOSURES CONSTRUCTION) SHALL BE RESTORED TO EXISTING CONDITION AT THE START OF WORK BY THE CONTRACTOR AT CONTRACTORS EXPENSE. FINISH RESTORATION SHALL BE APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
 - REFER TO DRAWINGS M-101 THROUGH M-104, M-401 AND M-701 THROUGH M-706 FOR ADDITIONAL INFORMATION CONCERNING PIPE AND COMPONENT REMOVALS.

- ASBESTOS REMOVAL KEY NOTES**
- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION IN THIS AREA. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
 - REMOVE AND DISPOSE OF PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE COLD WATER RISER. INCLUDE REMOVAL OF INSULATION WITHIN ONE FOOT OF THE RISER FITTING. INCLUDE REMOVAL OF INSULATION IN THE PENETRATION TO THE FLOOR ABOVE.
 - REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE IDENTIFIED PIPES AND/OR HEADERS. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
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 - REMOVE AND DISPOSE OF THE BOILER, INCLUDING ALL ASSOCIATED INSULATION, CEMENTS, GASKETS/SEALS, PIPE COVERING, REFRACTORY LINING, MILL BOARD, ETC. DIMENSIONS OF THE BOILER ARE APPROXIMATELY 11 FEET WIDE, 17 FEET LONG AND 13 FEET HIGH.
 - REMOVE AND DISPOSE OF THE BREECHING IN ITS ENTIRETY FROM THE OPERATING LEVEL OF THE BOILER ROOM TO THE IDENTIFIED EXPANSION JOINT. WHILE THE DIAMETER IS IDENTIFIED AS 42 INCHES, THE OUTER DIAMETER OF THE INSULATION JACKET IS APPROXIMATELY 60 INCHES.
 - REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE IDENTIFIED PIPES. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. INCLUDE REMOVAL OF ALL PIPE INSULATION IN THE PENETRATION TO THE FLOOR BELOW. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
 - REMOVE AND DISPOSE OF APPROXIMATELY 3 LINEAR FEET OF PIPE INSULATION AND MUDDIED FITTING INSULATION AT THE IDENTIFIED LOCATIONS.
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 - REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE IDENTIFIED PIPES. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
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 - REFER TO LARGE SCALE PART PLANS ON H-401 FOR EXISTING AND ABATEMENT OF PIPING IN THIS AREA.

HAZARDOUS MATERIALS ABATEMENT SCHEDULE

REMOVAL NOTES	MATERIAL DESCRIPTION	TOTAL QUANTITY
1	PIPE AND FITTING INSULATION	112 LINEAR FEET
2	PIPE AND FITTING INSULATION	16 LINEAR FEET
3	PIPE AND FITTING INSULATION	340 LINEAR FEET
4	FLANGE GASKETS AT VALVES	24 EACH
5	BOILER (APPROXIMATELY 17'X11'X13')	1 EACH
6	BREECHING	4 SQUARE FEET
	BREECHING INSULATION	680 SQUARE FEET
7	PIPE AND FITTING INSULATION	118 LINEAR FEET
8	PIPE AND FITTING INSULATION	18 LINEAR FEET
9	PIPE AND FITTING INSULATION	15 LINEAR FEET
10	PIPE AND FITTING INSULATION	44 LINEAR FEET
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12	PIPE AND FITTING INSULATION	3 LINEAR FEET
13	LOUVER UNIT (APPROXIMATELY 7'X11'4")	1 EACH
	WINDOW UNITS WITH GLAZING COMPOUND	209 SQUARE FEET
	CAULK ASSOCIATED WITH LOUVER AND WINDOW UNITS	85 LINEAR FEET
14	BIRD, BAT AND/OR RODENT DROPPINGS	600 SQUARE FEET

ADDENDUM DRAWING
 08/26/16



A

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12. REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE RISER ADJACENT TO DEAERATOR UNIT DA-1.
13. REMOVE AND DISPOSE OF THE LOUVER AND INDICATED WINDOW UNITS FROM THE WEST AND ELEVATIONS AT THE LOCATIONS IDENTIFIED ON DRAWINGS MS-301, DETAIL 1 AND MS-301, DETAILS 3 AND 7. INCLUDE REMOVAL OF ALL CAULK AND WINDOW GLAZING COMPOUND. CAULK AND WINDOW GLAZING COMPOUND ASSOCIATED WITH THE WINDOWS AND LOUVERS ARE PRESUMED TO BE ASBESTOS CONTAINING AND PCB CONTAINING MATERIALS.
14. CLEANUP AND DISPOSE OF BIRD, BAT AND/OR RODENT DROPPINGS PRESENT ON THE OPERATING AND MEZZANINE LEVELS AND ON TOP OF THE BOILER AND OTHER COMPONENTS SCHEDULED FOR REMOVAL. COORDINATE CLEANUP LOCATIONS WITH ALL OTHER CONTRACTORS.
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Serving New York
 ANDREW M. CUOMO
 Governor
 ROANN M. DESTITO
 Commissioner

CONSULTANT



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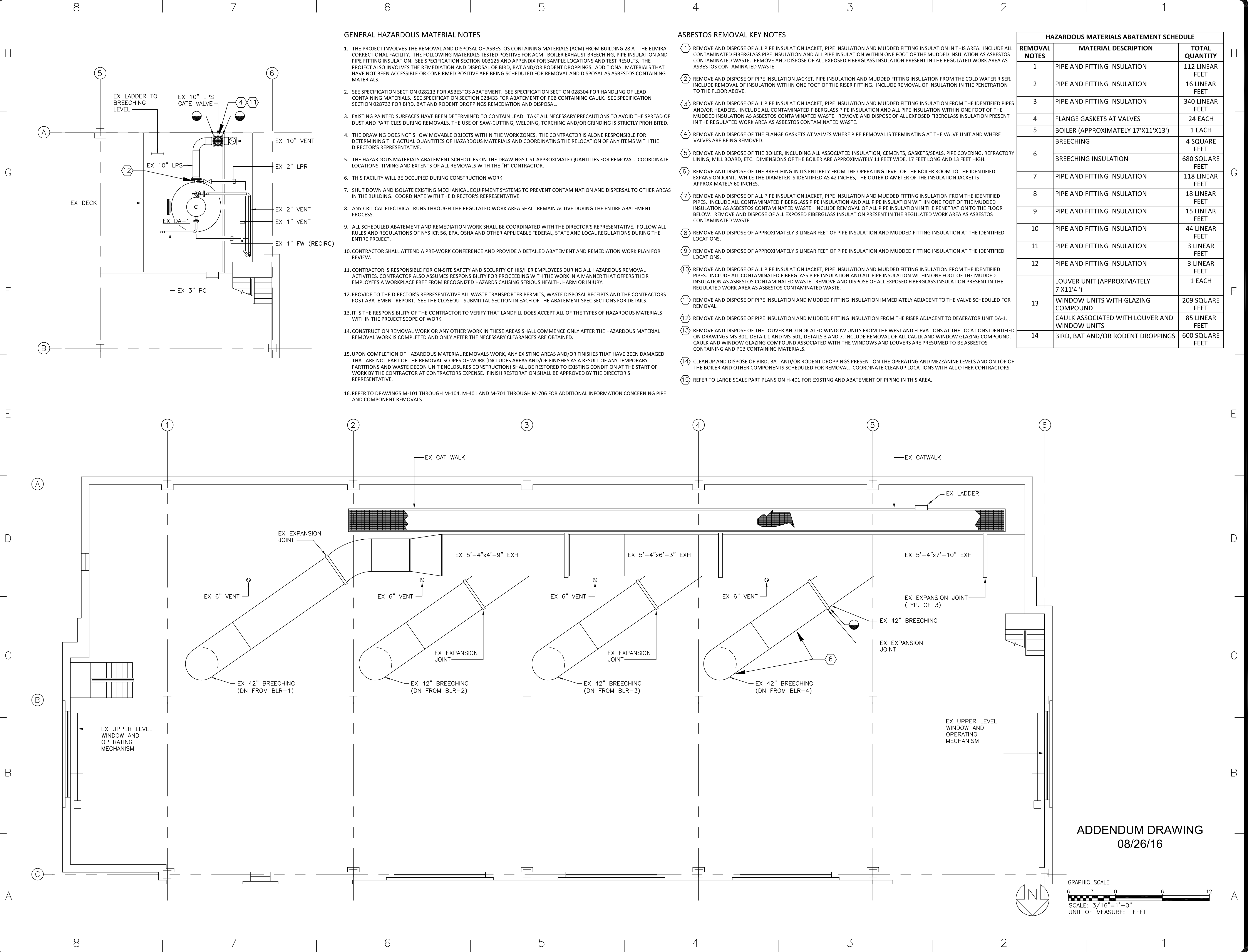
CONTRACT: HVAC
 TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28
 LOCATION: ELMIRA CORRECTIONAL FACILITY, 1879 DAVIS STREET, ELMIRA, NY 14902
 CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS

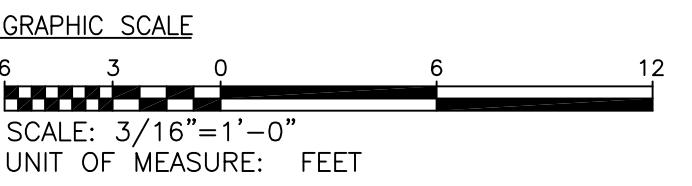
PROJECT NUMBER: 44985-H
 DESIGNED BY: JPM
 DRAWN BY: KEK
 FIELD CHECK: GSC
 APPROVED: VGB
 SHEET TITLE:

BLDG. 28 - POWERHOUSE - UPPER LEVEL BREECHING PLAN- ABATEMENT

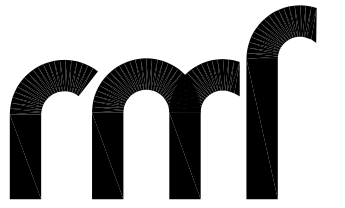
DRAWING NUMBER: H-104
 SHEET XX OF



ADDENDUM DRAWING
 08/26/16



CONSULTANT



RMF ENGINEERING, INC., P.C.
5520 RESEARCH PARK DR., SUITE 300
BALTIMORE, MD 21228



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CONTRACT:

HVAC

TITLE:

PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28

LOCATION:

ELMIRA CORRECTIONAL FACILITY
1879 DAVIS STREET
ELMIRA, NY 14902

CLIENT:

NYS DEPARTMENT OF CORRECTIONS
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PROJECT NUMBER:

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BLDG. 28 - POWER HOUSE -

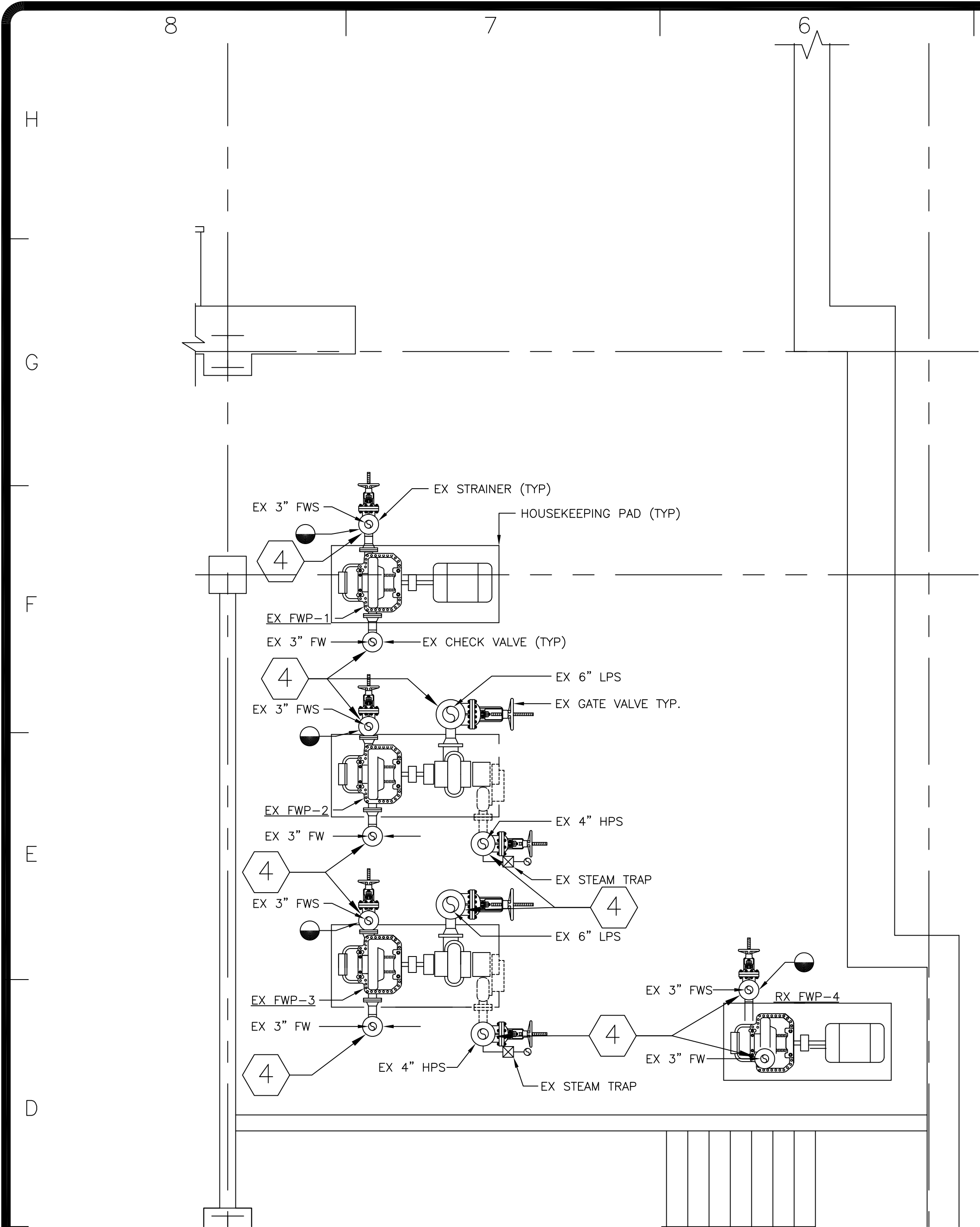
BASEMENT PART PLAN - ABATEMENT

DRAWING NUMBER:

H-401

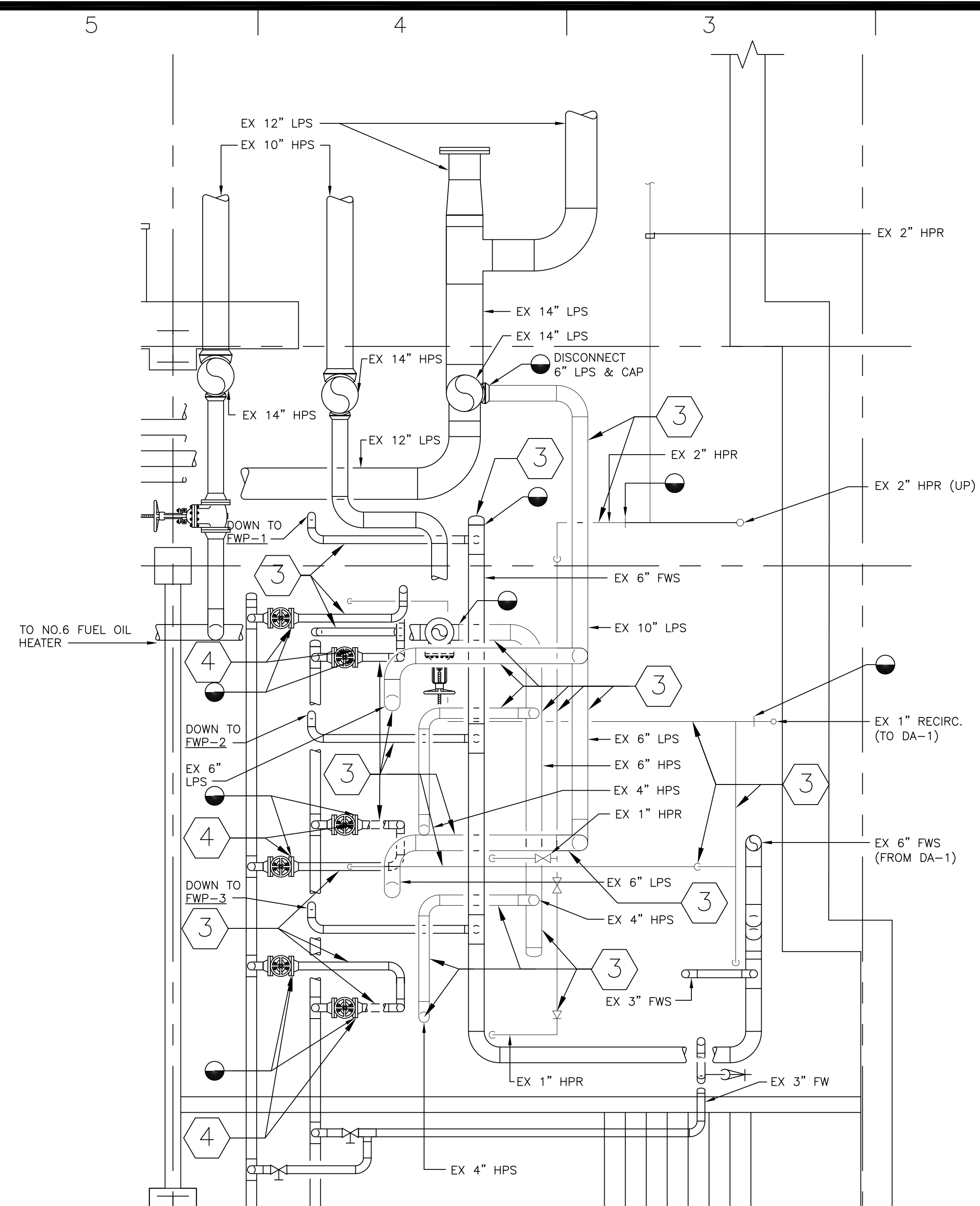
SHEET XX

OF



PART PLAN - LOWER LEVEL - REMOVALS

SCALE: 3/8" = 1'-0"



PART PLAN - UPPER LEVEL - REMOVALS

SCALE: 3/8" = 1'-0"

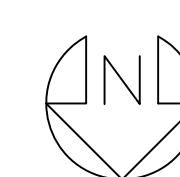
GENERAL HAZARDOUS MATERIAL NOTES

- THE PROJECT INVOLVES THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM) FROM BUILDING 28 AT THE ELMIRA CORRECTIONAL FACILITY. THE FOLLOWING MATERIALS TESTED POSITIVE FOR ACM: BOILER EXHAUST BREECHING, PIPE INSULATION AND PIPE FITTING INSULATION. SEE SPECIFICATION SECTION 003126 AND APPENDIX FOR SAMPLE LOCATIONS AND TEST RESULTS. THE PROJECT ALSO INVOLVES THE REMEDIATION AND DISPOSAL OF BIRD, BAT AND/OR RODENT DROPPINGS. ADDITIONAL MATERIALS THAT HAVE NOT BEEN ACCESSIBLE OR CONFIRMED POSITIVE ARE BEING SCHEDULED FOR REMOVAL AND DISPOSAL AS ASBESTOS CONTAINING MATERIALS.
- SEE SPECIFICATION SECTION 028213 FOR ASBESTOS ABATEMENT. SEE SPECIFICATION SECTION 028304 FOR HANDLING OF LEAD CONTAINING MATERIALS. SEE SPECIFICATION SECTION 028433 FOR ABATEMENT OF PCB CONTAINING CAULK. SEE SPECIFICATION SECTION 028733 FOR BIRD, BAT AND/OR RODENT DROPPINGS REMEDIATION AND DISPOSAL.
- EXISTING PAINTED SURFACES HAVE BEEN DETERMINED TO CONTAIN LEAD. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPREAD OF DUST AND PARTICLES DURING REMOVALS. THE USE OF SAW-CUTTING, WELDING, TORCHING AND/OR GRINDING IS STRICTLY PROHIBITED.
- THE DRAWING DOES NOT SHOW MOVABLE OBJECTS WITHIN THE WORK ZONES. THE CONTRACTOR IS ALONE RESPONSIBLE FOR DETERMINING THE ACTUAL QUANTITIES OF HAZARDOUS MATERIALS AND COORDINATING THE RELOCATION OF ANY ITEMS WITH THE DIRECTOR'S REPRESENTATIVE.
- THE HAZARDOUS MATERIALS ABATEMENT SCHEDULES ON THE DRAWINGS LIST APPROXIMATE QUANTITIES FOR REMOVAL. COORDINATE LOCATIONS, TIMING AND EXTENTS OF ALL REMOVALS WITH THE "H" CONTRACTOR.
- THIS FACILITY WILL BE OCCUPIED DURING CONSTRUCTION WORK.
- SHUT DOWN AND ISOLATE EXISTING MECHANICAL EQUIPMENT SYSTEMS TO PREVENT CONTAMINATION AND DISPERSAL TO OTHER AREAS IN THE BUILDING. COORDINATE WITH THE DIRECTOR'S REPRESENTATIVE.
- ANY CRITICAL ELECTRICAL RUNS THROUGH THE REGULATED WORK AREA SHALL REMAIN ACTIVE DURING THE ENTIRE ABATEMENT PROCESS.
- ALL SCHEDULED ABATEMENT AND REMEDIATION WORK SHALL BE COORDINATED WITH THE DIRECTOR'S REPRESENTATIVE. FOLLOW ALL RULES AND REGULATIONS OF NYS ICR 56, EPA, OSHA AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS DURING THE ENTIRE PROJECT.
- CONTRACTOR SHALL ATTEND A PRE-WORK CONFERENCE AND PROVIDE A DETAILED ABATEMENT AND REMEDIATION WORK PLAN FOR REVIEW.
- CONTRACTOR IS RESPONSIBLE FOR ON-SITE SAFETY AND SECURITY OF HIS/HER EMPLOYEES DURING ALL HAZARDOUS REMOVAL ACTIVITIES. CONTRACTOR ALSO ASSUMES RESPONSIBILITY FOR PROCEEDING WITH THE WORK IN A MANNER THAT OFFERS THEIR EMPLOYEES A WORKPLACE FREE FROM RECOGNIZED HAZARDS CAUSING SERIOUS HEALTH, HARM OR INJURY.
- PROVIDE TO THE DIRECTOR'S REPRESENTATIVE ALL WASTE TRANSPORTER PERMITS, WASTE DISPOSAL RECEIPTS AND THE CONTRACTORS POST ABATEMENT REPORT. SEE THE CLOSOUT SUBMITTAL SECTION IN EACH OF THE ABATEMENT SPEC SECTIONS FOR DETAILS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT LANDFILL DOES ACCEPT ALL OF THE TYPES OF HAZARDOUS MATERIALS WITHIN THE PROJECT SCOPE OF WORK.
- CONSTRUCTION REMOVAL WORK OR ANY OTHER WORK IN THESE AREAS SHALL COMMENCE ONLY AFTER THE HAZARDOUS MATERIAL REMOVAL WORK IS COMPLETED AND ONLY AFTER THE NECESSARY CLEARANCES ARE OBTAINED.
- UPON COMPLETION OF HAZARDOUS MATERIAL REMOVALS WORK, ANY EXISTING AREAS AND/OR FINISHES THAT HAVE BEEN DAMAGED THAT ARE NOT PART OF THE REMOVAL SCOPES OF WORK (INCLUDES AREAS AND/OR FINISHES AS A RESULT OF ANY TEMPORARY PARTITIONS AND WASTE DECON UNIT ENCLOSURES CONSTRUCTION) SHALL BE RESTORED TO EXISTING CONDITION AT THE START OF WORK BY THE CONTRACTOR AT CONTRACTORS EXPENSE. FINISH RESTORATION SHALL BE APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
- REFER TO DRAWINGS M-101 THROUGH M-104, M-401 AND M-701 THROUGH M-706 FOR ADDITIONAL INFORMATION CONCERNING PIPE AND COMPONENT REMOVALS.

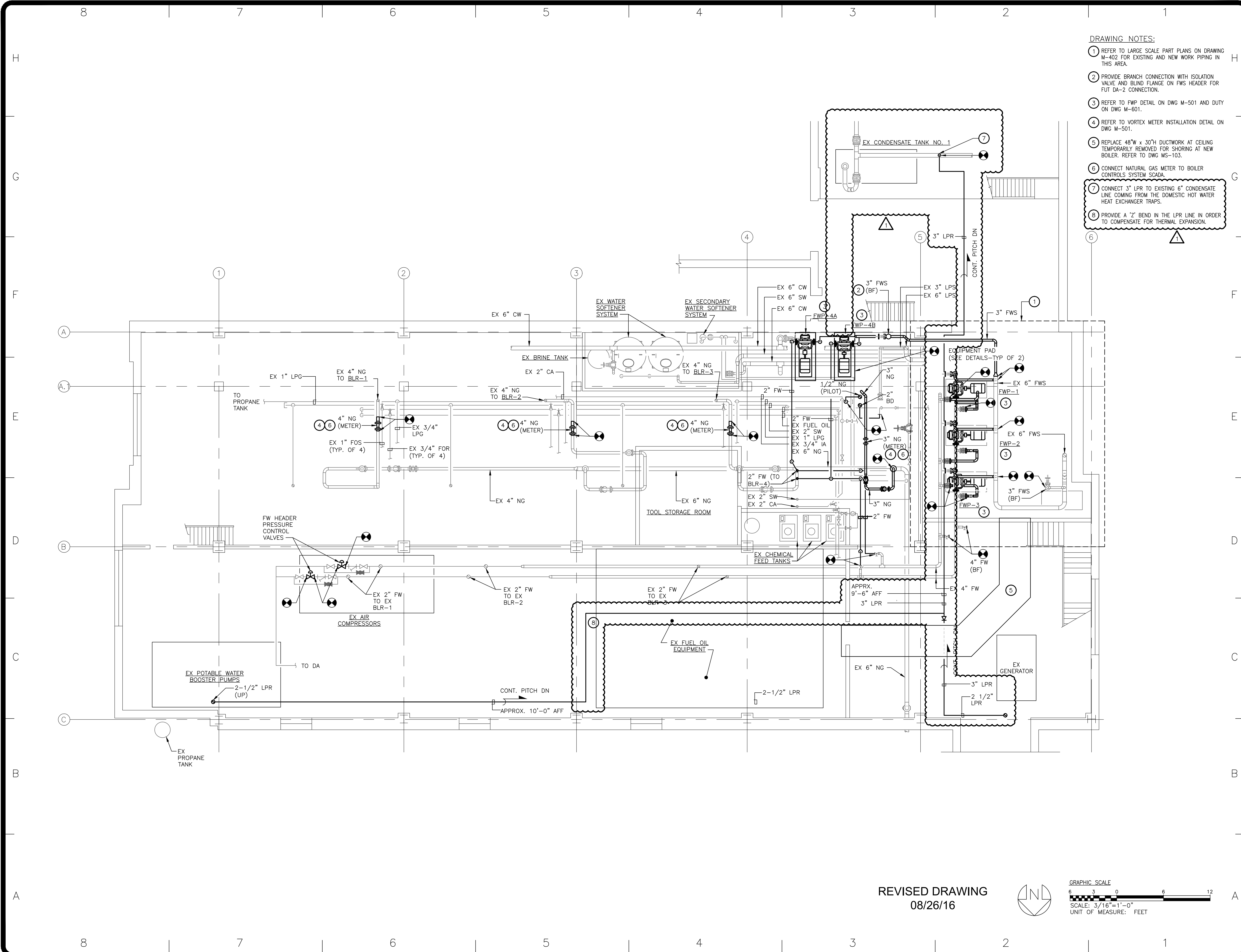
ASBESTOS REMOVAL KEY NOTES

- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION IN THIS AREA. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE COLD WATER RISER. INCLUDE REMOVAL OF INSULATION WITHIN ONE FOOT OF THE RISER FITTING. INCLUDE REMOVAL OF INSULATION IN THE PENETRATION TO THE FLOOR ABOVE.
- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE IDENTIFIED PIPES AND/OR HEADERS. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF THE FLANGE GASKETS AT VALVES WHERE PIPE REMOVAL IS TERMINATING AT THE VALVE UNIT AND WHERE VALVES ARE BEING REMOVED.
- REMOVE AND DISPOSE OF THE BOILER, INCLUDING ALL ASSOCIATED INSULATION, CEMENTS, GASKETS/SEALS, PIPE COVERING, REFRACTORY LINING, MILL BOARD, ETC. DIMENSIONS OF THE BOILER ARE APPROXIMATELY 11 FEET WIDE, 17 FEET LONG AND 13 FEET HIGH.
- REMOVE AND DISPOSE OF THE BREECHING IN ITS ENTIRETY FROM THE OPERATING LEVEL OF THE BOILER ROOM TO THE IDENTIFIED EXPANSION JOINT. WHILE THE DIAMETER IS IDENTIFIED AS 42 INCHES, THE OUTER DIAMETER OF THE INSULATION JACKET IS APPROXIMATELY 60 INCHES.
- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE IDENTIFIED PIPES. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF APPROXIMATELY 3 LINEAR FEET OF PIPE INSULATION AND MUDDIED FITTING INSULATION AT THE IDENTIFIED LOCATIONS.
- REMOVE AND DISPOSE OF APPROXIMATELY 5 LINEAR FEET OF PIPE INSULATION AND MUDDIED FITTING INSULATION AT THE IDENTIFIED LOCATIONS.
- REMOVE AND DISPOSE OF ALL PIPE INSULATION JACKET, PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE IDENTIFIED PIPES. INCLUDE ALL CONTAMINATED FIBERGLASS PIPE INSULATION AND ALL PIPE INSULATION WITHIN ONE FOOT OF THE MUDDIED INSULATION AS ASBESTOS CONTAMINATED WASTE. REMOVE AND DISPOSE OF ALL EXPOSED FIBERGLASS INSULATION PRESENT IN THE REGULATED WORK AREA AS ASBESTOS CONTAMINATED WASTE.
- REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDIED FITTING INSULATION IMMEDIATELY ADJACENT TO THE VALVE SCHEDULED FOR REMOVAL.
- REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDIED FITTING INSULATION FROM THE RISER ADJACENT TO DEAERATOR UNIT DA-1.
- REMOVE AND DISPOSE OF THE LOUVER AND INDICATED WINDOW UNITS FROM THE WEST AND ELEVATIONS AT THE LOCATIONS IDENTIFIED ON DRAWINGS MS-301, DETAIL 1 AND MS-501, DETAILS 3 AND 7. INCLUDE REMOVAL OF ALL CAULK AND WINDOW GLAZING COMPOUND. CAULK AND WINDOW GLAZING COMPOUND ASSOCIATED WITH THE WINDOWS AND LOUVERS ARE PRESUMED TO BE ASBESTOS CONTAINING AND PCB CONTAINING MATERIALS.
- CLEANUP AND DISPOSE OF BIRD, BAT AND/OR RODENT DROPPINGS PRESENT ON THE OPERATING AND MEZZANINE LEVELS AND ON TOP OF THE BOILER AND OTHER COMPONENTS SCHEDULED FOR REMOVAL. COORDINATE CLEANUP LOCATIONS WITH ALL OTHER CONTRACTORS.
- REFER TO LARGE SCALE PART PLANS ON H-401 FOR EXISTING AND ABATEMENT OF PIPING IN THIS AREA.

ADDENDUM DRAWING
08/26/16



GRAPHIC SCALE
3 1.5 0 3 6
SCALE: 3/8"=1'-0"
UNIT OF MEASURE: FEET

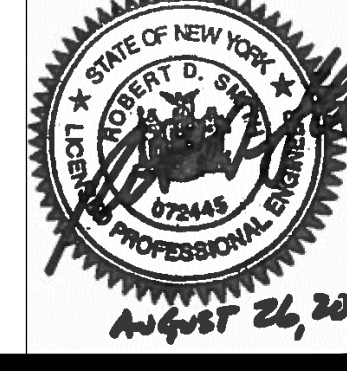


- DRAWING NOTES:**
- 1 REFER TO LARGE SCALE PART PLANS ON DRAWING M-402 FOR EXISTING AND NEW WORK PIPING IN THIS AREA.
 - 2 PROVIDE BRANCH CONNECTION WITH ISOLATION VALVE AND BLIND FLANGE ON FWS HEADER FOR FUT DA-2 CONNECTION.
 - 3 REFER TO FWP DETAIL ON DWG M-501 AND DUTY ON DWG M-601.
 - 4 REFER TO VORTEX METER INSTALLATION DETAIL ON DWG M-501.
 - 5 REPLACE 48"W x 30"H DUCTWORK AT CEILING TEMPORARILY REMOVED FOR SHORING AT NEW BOILER. REFER TO DWG MS-103.
 - 6 CONNECT NATURAL GAS METER TO BOILER CONTROLS SYSTEM SCADA.
 - 7 CONNECT 3" LPR TO EXISTING 6" CONDENSATE LINE COMING FROM THE DOMESTIC HOT WATER HEAT EXCHANGER TRAPS.
 - 8 PROVIDE A 'Z' BEND IN THE LPR LINE IN ORDER TO COMPENSATE FOR THERMAL EXPANSION.

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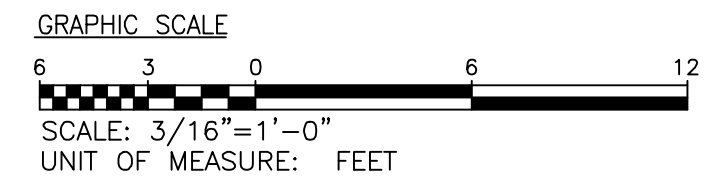
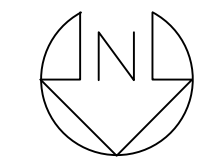
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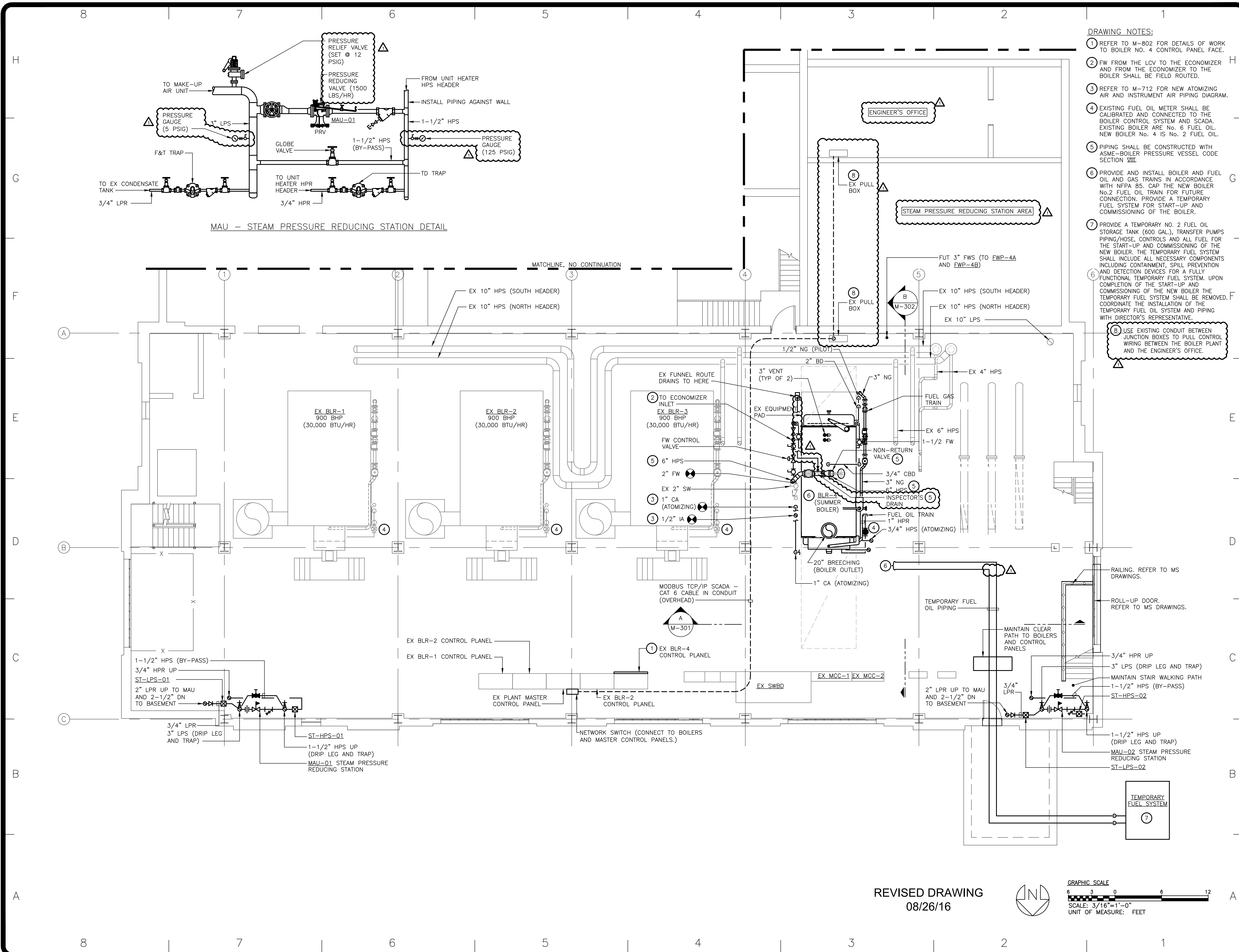


CONTRACT: HVAC
 TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28
 LOCATION: ELMIRA CORRECTIONAL FACILITY
 1879 DAVIS STREET
 ELMIRA, NY 14902
 CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No. 1
1	07-20-16	BID DOCUMENTS
PROJECT NUMBER: 44985-H		
DESIGNED BY: GSC		
DRAWN BY: KEK		
FIELD CHECK: GSC		
APPROVED: vgb		
SHEET TITLE: BLDG. 28 - POWER HOUSE - BASEMENT PART PLAN		
DRAWING NUMBER: M-106		
SHEET XX OF		

REVISED DRAWING
 08/26/16





- DRAWING NOTES:**
- 1 REFER TO M-802 FOR DETAILS OF WORK TO BOILER NO. 4 CONTROL PANEL FACE.
 - 2 FW FROM THE LCV TO THE ECONOMIZER AND FROM THE ECONOMIZER TO THE BOILER SHALL BE FIELD ROUTED.
 - 3 REFER TO M-712 FOR NEW ATOMIZING AIR AND INSTRUMENT AIR PIPING DIAGRAM.
 - 4 EXISTING FUEL OIL METER SHALL BE CALIBRATED AND CONNECTED TO THE BOILER CONTROL SYSTEM AND SCADA. EXISTING BOILER ARE NO. 6 FUEL OIL. NEW BOILER NO. 4 IS NO. 2 FUEL OIL.
 - 5 PIPING SHALL BE CONSTRUCTED WITH ASME-BOILER PRESSURE VESSEL CODE SECTION VIII.
 - 6 PROVIDE AND INSTALL BOILER AND FUEL OIL AND GAS TRAINS IN ACCORDANCE WITH NFPA 85. CAP THE NEW BOILER NO.2 FUEL OIL TRAIN FOR FUTURE CONNECTION. PROVIDE A TEMPORARY FUEL SYSTEM FOR START-UP AND COMMISSIONING OF THE BOILER.
 - 7 PROVIDE A TEMPORARY NO. 2 FUEL OIL STORAGE TANK (600 GAL.), TRANSFER PUMPS PIPING/HOSE, CONTROLS AND ALL FUEL FOR THE START-UP AND COMMISSIONING OF THE NEW BOILER. THE TEMPORARY FUEL SYSTEM SHALL INCLUDE ALL NECESSARY COMPONENTS INCLUDING CONTAINMENT, SPILL PREVENTION AND DETECTION DEVICES FOR A FULLY FUNCTIONAL TEMPORARY FUEL SYSTEM. UPON COMPLETION OF THE START-UP AND COMMISSIONING OF THE NEW BOILER THE TEMPORARY FUEL SYSTEM SHALL BE REMOVED. THE COORDINATE THE INSTALLATION OF THE TEMPORARY FUEL OIL SYSTEM AND PIPING WITH DIRECTOR'S REPRESENTATIVE.
 - 8 USE EXISTING CONDUIT BETWEEN JUNCTION BOXES TO PULL CONTROL WIRING BETWEEN THE BOILER PLANT AND THE ENGINEER'S OFFICE.

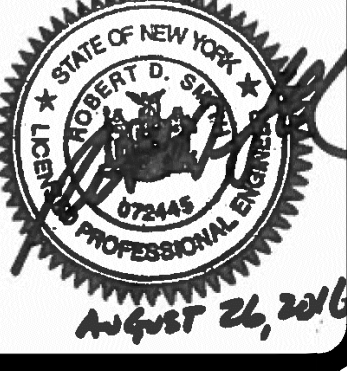


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CONTRACT: HVAC

TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28

LOCATION: ELMIRA CORRECTIONAL FACILITY
 1879 DAVIS STREET
 ELMIRA, NY 14902

CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS

PROJECT NUMBER: 44985-H

DESIGNED BY: JPM
 DRAWN BY: KEK
 FIELD CHECK: GSC
 APPROVED: VGB

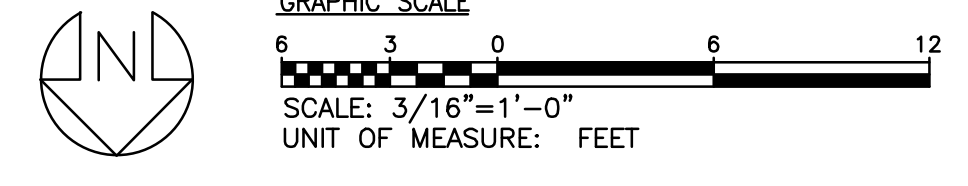
SHEET TITLE:

BLDG. 28 - POWER HOUSE - OPERATING FLOOR PLAN

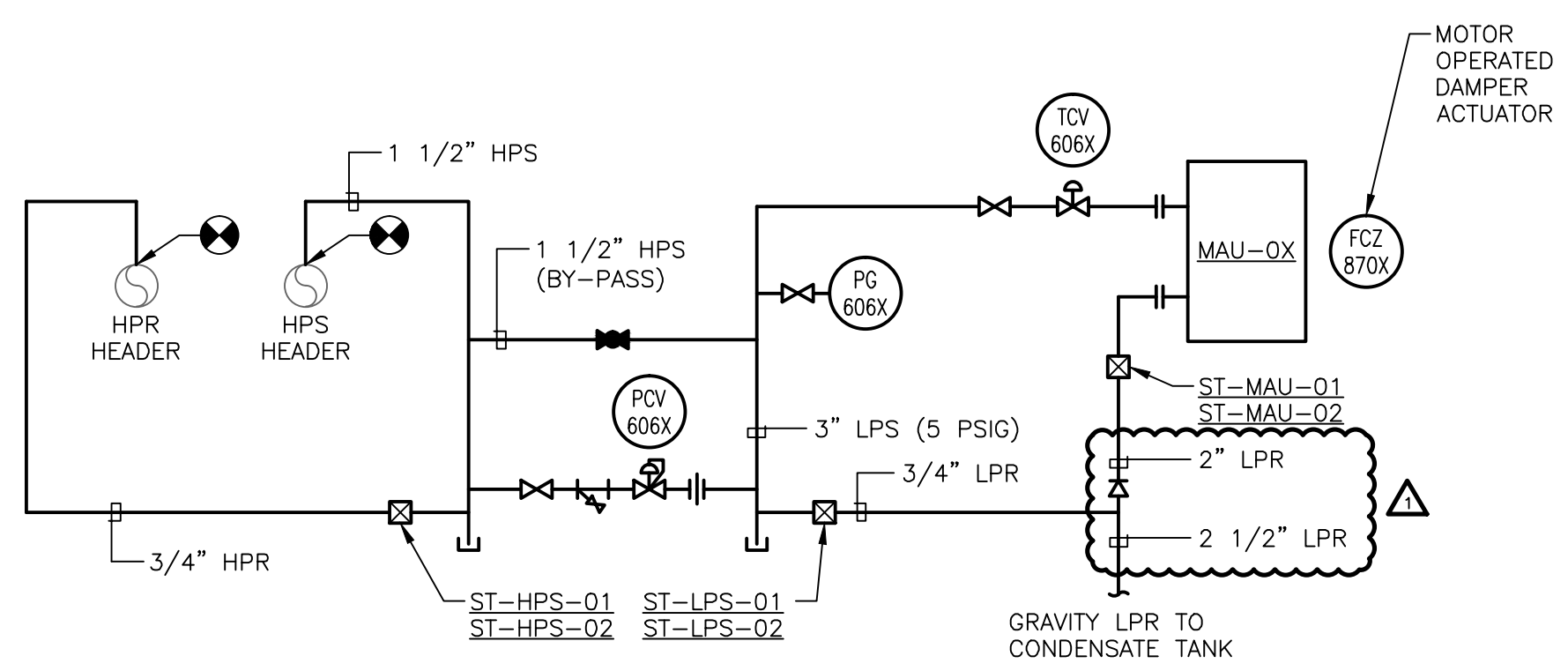
DRAWING NUMBER: **M-107**

SHEET XX of

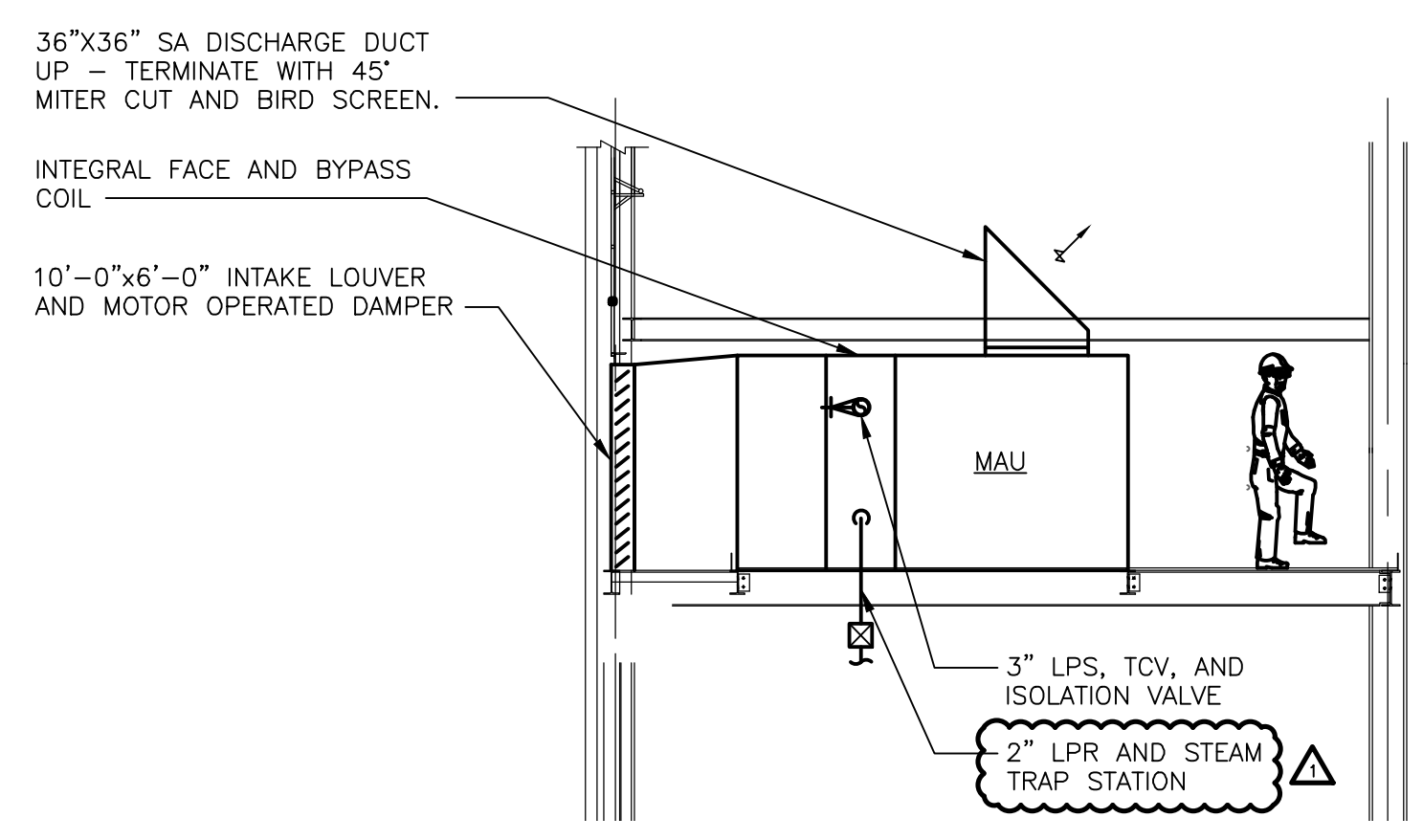
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 08/26/16



NOTES:
 1. THE X IN THE INSTRUMENT NUMBER REPRESENTS THE MAU NUMBER. REFER TO THE IO AND INSTRUMENT LISTS FOR ADDITIONAL INFORMATION.



MAU STEAM COIL SINGLE LINE DIAGRAM
 SCALE: NONE



MAKE-UP AIR UNIT SECTION (TYPICAL OF 2 UNITS)
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

1. WORK FOR DA-2 IS SHOWN ON THIS DRAWING FOR FUTURE INSTALLATION ONLY. PROVIDE NECESSARY TIE-INS AND VALVES TO CONNECT DA-2 IN THE FUTURE. FUTURE DA-2 SUPPORT STEEL IS NOT SHOWN.

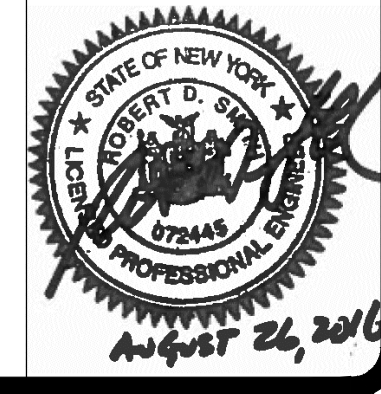
DRAWING NOTES:

- ① 4 EXISTING 2" BURNER GAS VENTS PENETRATE THE EXTERIOR WALL AT THIS LOCATION APPROXIMATELY 24'-0" ABOVE THE FINISHED FLOOR. PROVIDE 4 NEW WALL PENETRATIONS FOR 3/4" (X3) AND 1" (X1) GAS VENTS AND SEAL PENETRATION WITH GROUT ON BOTH SIDES OF THE WALL. REFER TO M-712 FOR GAS VENT PIPING DIAGRAM.
- ② PROVIDE OUTLET MOTOR OPERATED DRAFT DAMPER IN APPROX. BREECING IN THIS LOCATION, 12" ABOVE THE ECONOMIZER.
- ③ PIPING SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASME - BOILER AND PRESSURE VESSEL CODE. STEAM METER SHALL BE CERTIFIED FOR BOILER EXTERNAL PIPING.
- ④ CONNECT STEAM METERS TO BOILER CONTROL SYSTEM AND SCADA.
- ⑤ REFER TO VORTEX METER INSTALLATION DETAIL ON DWG. M-501.

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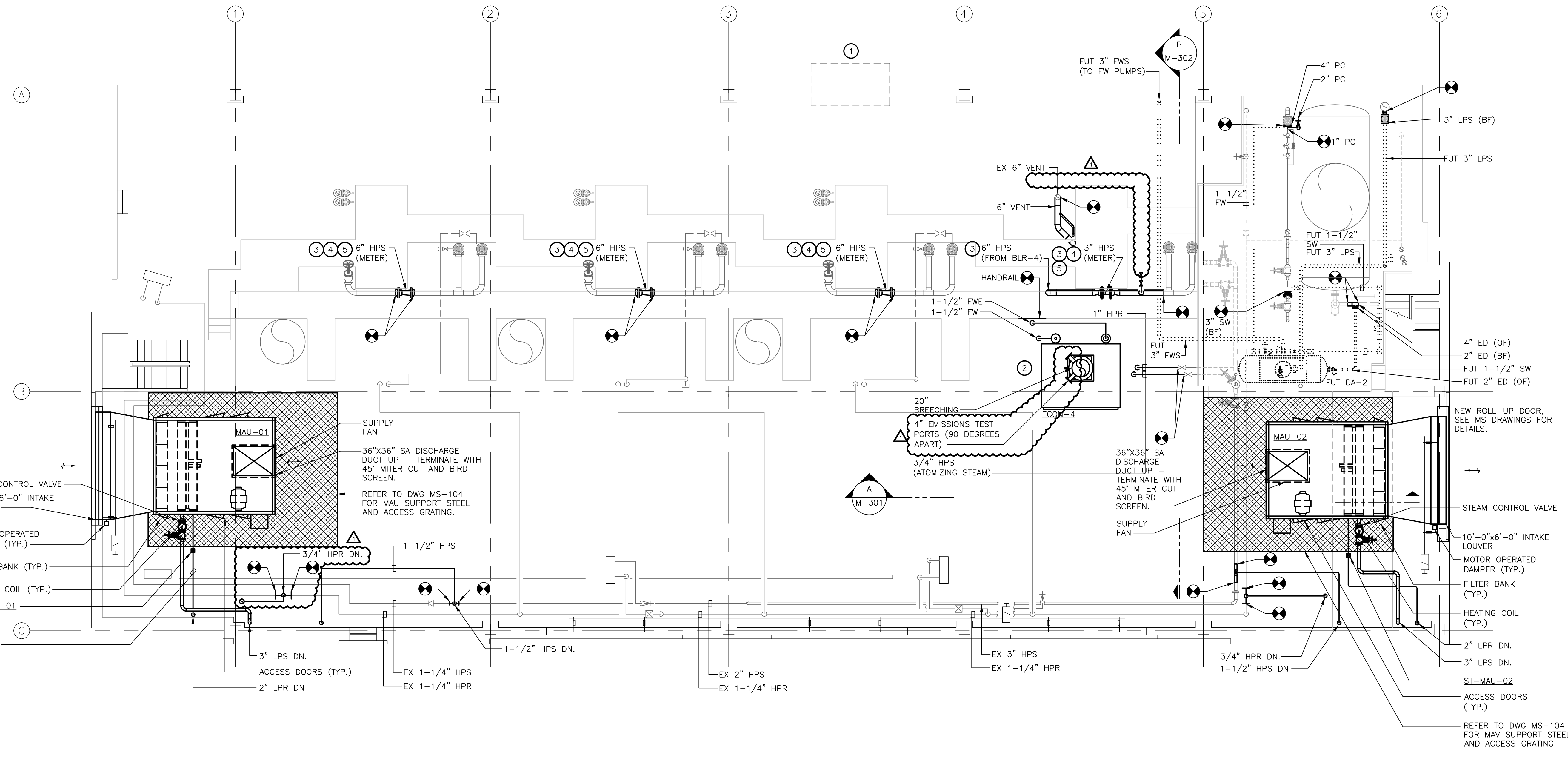
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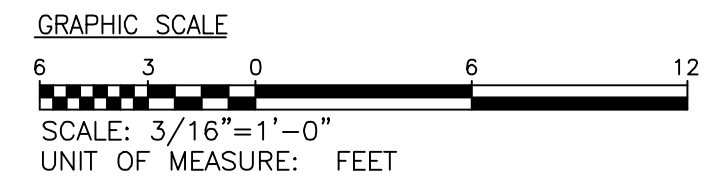
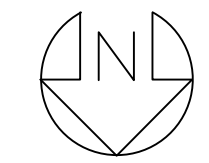


CONTRACT: HVAC
TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28
LOCATION: ELMIRA CORRECTIONAL FACILITY, 1879 DAVIS STREET, ELMIRA, NY 14902
CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	44985-H	
DESIGNED BY:	gsc	
DRAWN BY:	kek	
FIELD CHECK:	gsc	
APPROVED:	vgb	
SHEET TITLE:		
BLDG. 28 - POWER HOUSE - MEZZANINE LEVEL PLAN		
DRAWING NUMBER:	M-108	
SHEET XX OF		



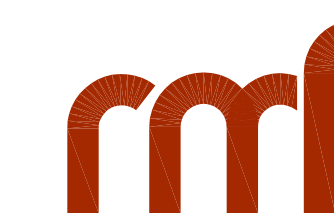
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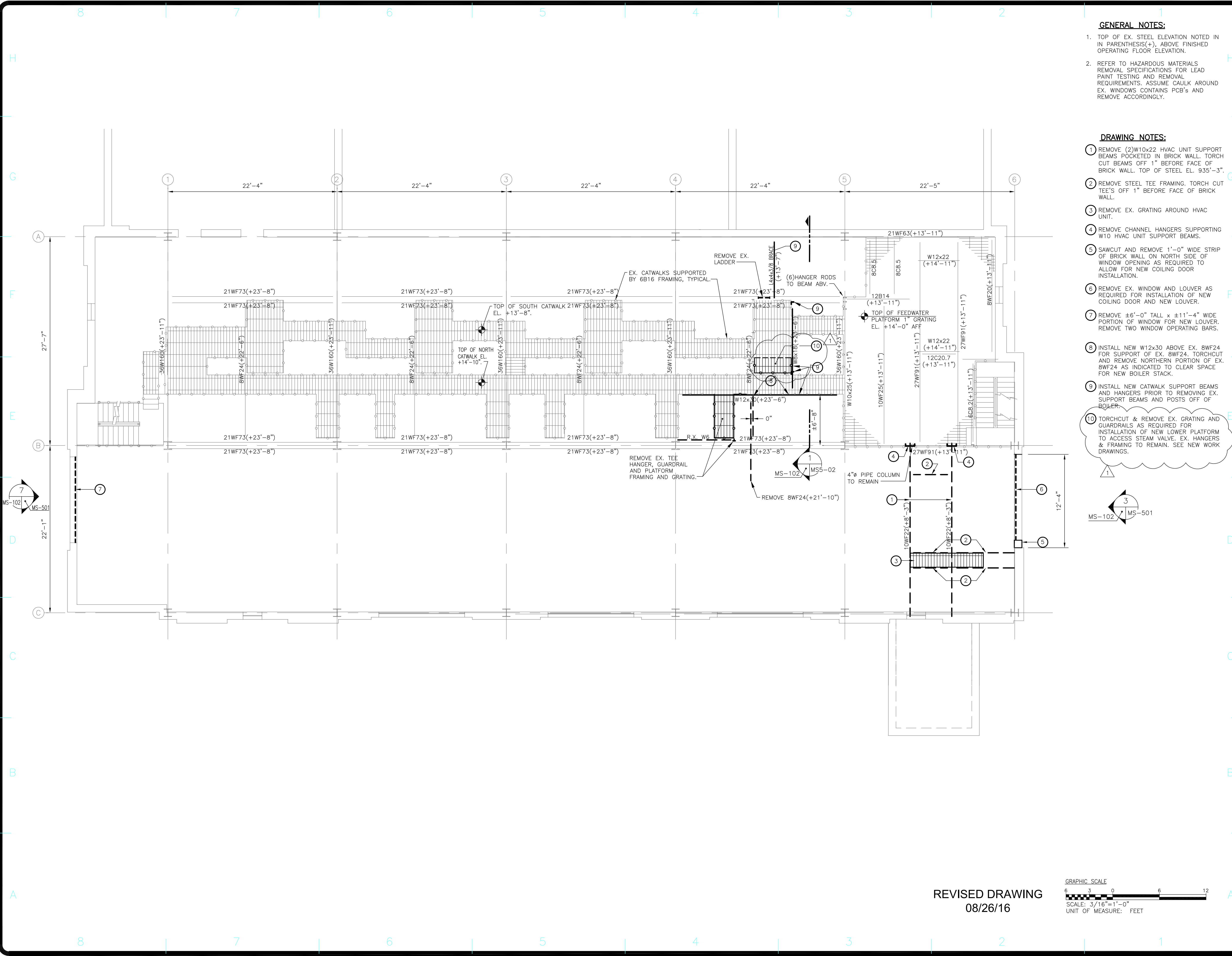
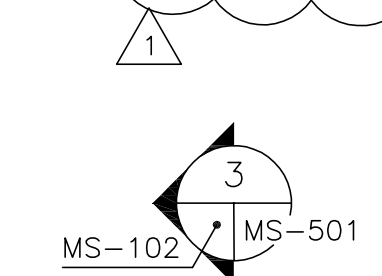
CONTRACT: HVAC
 TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28
 LOCATION: ELMIRA CORRECTIONAL FACILITY
 1879 DAVIS STREET
 ELMIRA, NY 14902
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GENERAL NOTES:

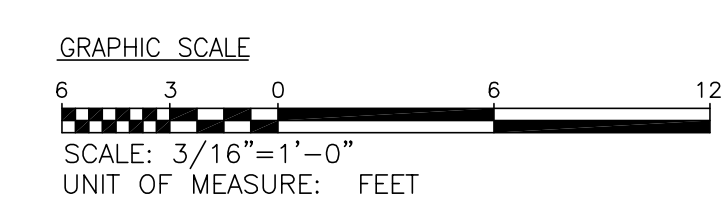
1. TOP OF EX. STEEL ELEVATION NOTED IN PARENTHESIS(+), ABOVE FINISHED OPERATING FLOOR ELEVATION.
2. REFER TO HAZARDOUS MATERIALS REMOVAL SPECIFICATIONS FOR LEAD PAINT TESTING AND REMOVAL REQUIREMENTS. ASSUME CAULK AROUND EX. WINDOWS CONTAINS PCB'S AND REMOVE ACCORDINGLY.

DRAWING NOTES:

- 1 REMOVE (2)W10x22 HVAC UNIT SUPPORT BEAMS POCKETED IN BRICK WALL. TORCH CUT BEAMS OFF 1" BEFORE FACE OF BRICK WALL. TOP OF STEEL EL. 935'-3".
- 2 REMOVE STEEL TEE FRAMING. TORCH CUT TEE'S OFF 1" BEFORE FACE OF BRICK WALL.
- 3 REMOVE EX. GRATING AROUND HVAC UNIT.
- 4 REMOVE CHANNEL HANGERS SUPPORTING W10 HVAC UNIT SUPPORT BEAMS.
- 5 SAWCUT AND REMOVE 1'-0" WIDE STRIP OF BRICK WALL ON NORTH SIDE OF WINDOW OPENING AS REQUIRED TO ALLOW FOR NEW COILING DOOR INSTALLATION.
- 6 REMOVE EX. WINDOW AND LOUVER AS REQUIRED FOR INSTALLATION OF NEW COILING DOOR AND NEW LOUVER.
- 7 REMOVE ±6'-0" TALL x ±11'-4" WIDE PORTION OF WINDOW FOR NEW LOUVER. REMOVE TWO WINDOW OPERATING BARS.
- 8 INSTALL NEW W12x30 ABOVE EX. 8WF24 FOR SUPPORT OF EX. 8WF24. TORCHCUT AND REMOVE NORTHERN PORTION OF EX. 8WF24 AS INDICATED TO CLEAR SPACE FOR NEW BOILER STACK.
- 9 INSTALL NEW CATWALK SUPPORT BEAMS AND HANGERS PRIOR TO REMOVING EX. SUPPORT BEAMS AND POSTS OFF OF BOILER.
- 10 TORCHCUT & REMOVE EX. GRATING AND GUARDRAILS AS REQUIRED FOR INSTALLATION OF NEW LOWER PLATFORM TO ACCESS STEAM VALVE. EX. HANGERS & FRAMING TO REMAIN. SEE NEW WORK DRAWINGS.

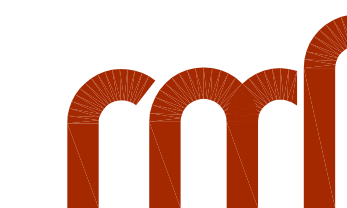


REVISED DRAWING
 08/26/16



MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS
PROJECT NUMBER: 44985-H		
DESIGNED BY: GSC		
DRAWN BY: KEK		
FIELD CHECK: GSC		
APPROVED: VGB		
SHEET TITLE: BLDG. 28 - POWER HOUSE - MEZZANINE PART PLAN - REMOVALS		
DRAWING NUMBER: MS-102		
SHEET XX OF		

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CONTRACT: HVAC

TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28

LOCATION: ELMIRA CORRECTIONAL FACILITY
1879 DAVIS STREET
ELMIRA, NY 14902

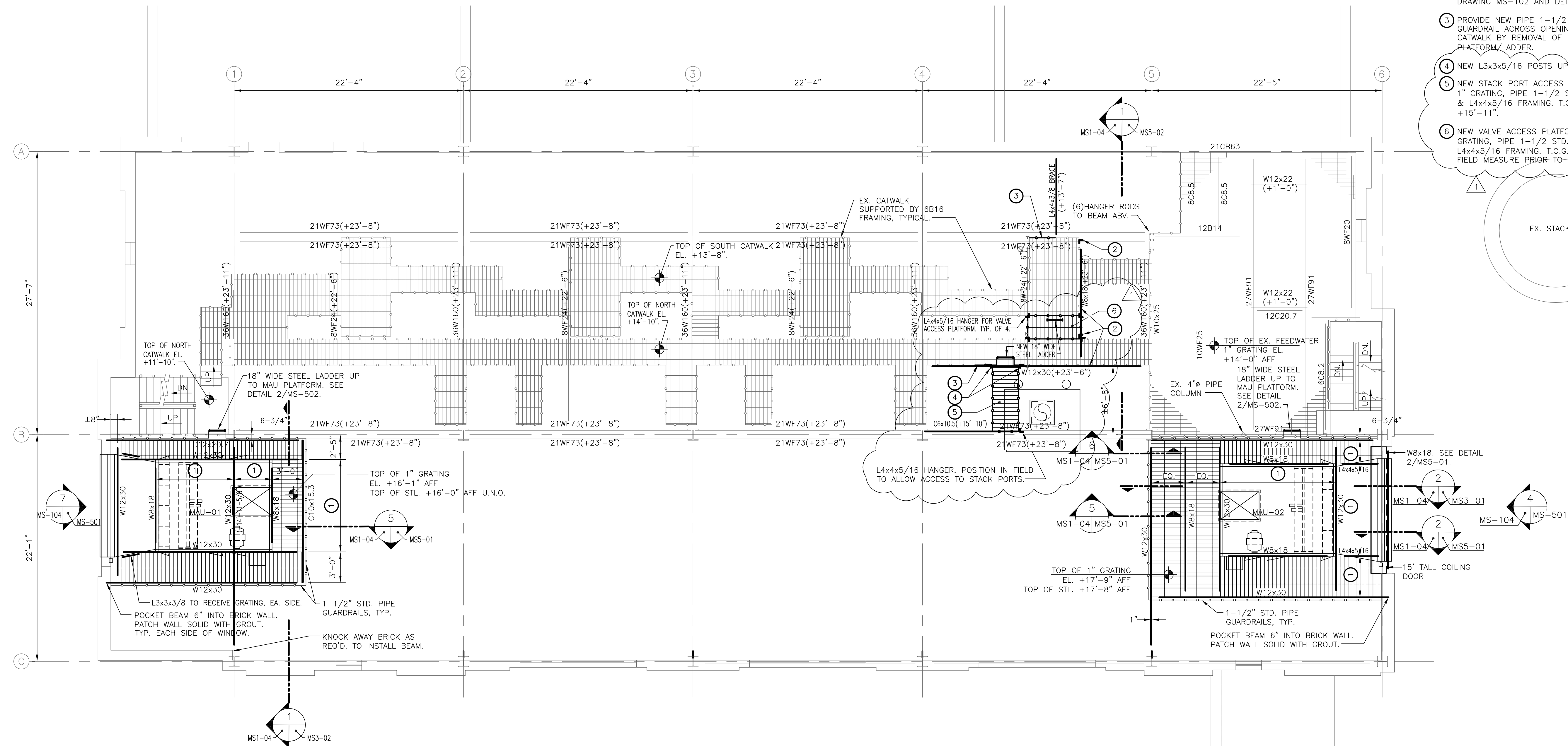
CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

GENERAL NOTES:

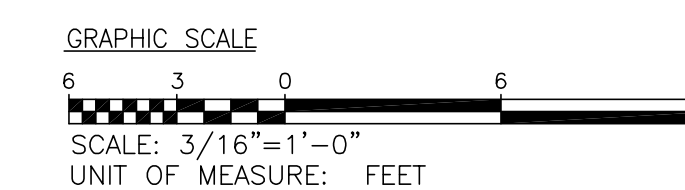
1. TOP OF EX. STEEL ELEVATION NOTED IN PARENTHESIS(+/-) RELATIVE TO OPERATING FINISHED FLOOR ELEVATION.
2. TOP OF NEW MAU EAST PLATFORM STEEL ELEVATION = +17'-8" AFF.
3. TOP OF NEW MAU WEST PLATFORM STEEL ELEVATION = +16'-0" AFF U.N.O.

DRAWING NOTES:

1. COORDINATE BEAM DIMENSIONS WITH ACTUAL EQUIPMENT SUPPLIED. BEAMS ARE INTENDED TO SUPPORT AN ASSUMED 6,000 LB. UNIT AND EDGE OF PLATFORM GRATING.
2. NEW BEAMS AND HANGER ANGLES INSTALLED DURING REMOVAL WORK. SEE DRAWING MS-102 AND DETAIL 1/MS-502.
3. PROVIDE NEW PIPE 1-1/2 STD. GUARDRAIL ACROSS OPENING LEFT IN CATWALK BY REMOVAL OF PLATFORM/LADDER.
4. NEW L3x3x5/16 POSTS UP OFF EX. BEAM.
5. NEW STACK PORT ACCESS PLATFORM WITH 1" GRATING, PIPE 1-1/2 STD. GUARDRAIL & L4x4x5/16 FRAMING. T.O.G. EL. +15'-11".
6. NEW VALVE ACCESS PLATFORM WITH 1" GRATING, PIPE 1-1/2 STD. GUARDRAIL & L4x4x5/16 FRAMING. T.O.G. EL. +10'-3". FIELD MEASURE PRIOR TO FABRICATING.



REVISED DRAWING
08/26/16

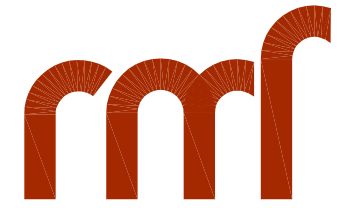


MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS

BLDG. 28 - POWER HOUSE - MEZZANINE PART PLAN - NEW WORK

DRAWING NUMBER:
MS-104

CONSULTANT



RMF ENGINEERING, INC., P.C.
5520 RESEARCH PARK DR., SUITE 300
BALTIMORE, MD 21228

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.



CONTRACT: HVAC

TITLE: PROVIDE SUMMER BOILER, POWERHOUSE, BUILDING 28

LOCATION: ELMIRA CORRECTIONAL FACILITY
1879 DAVIS STREET
ELMIRA, NY 14902

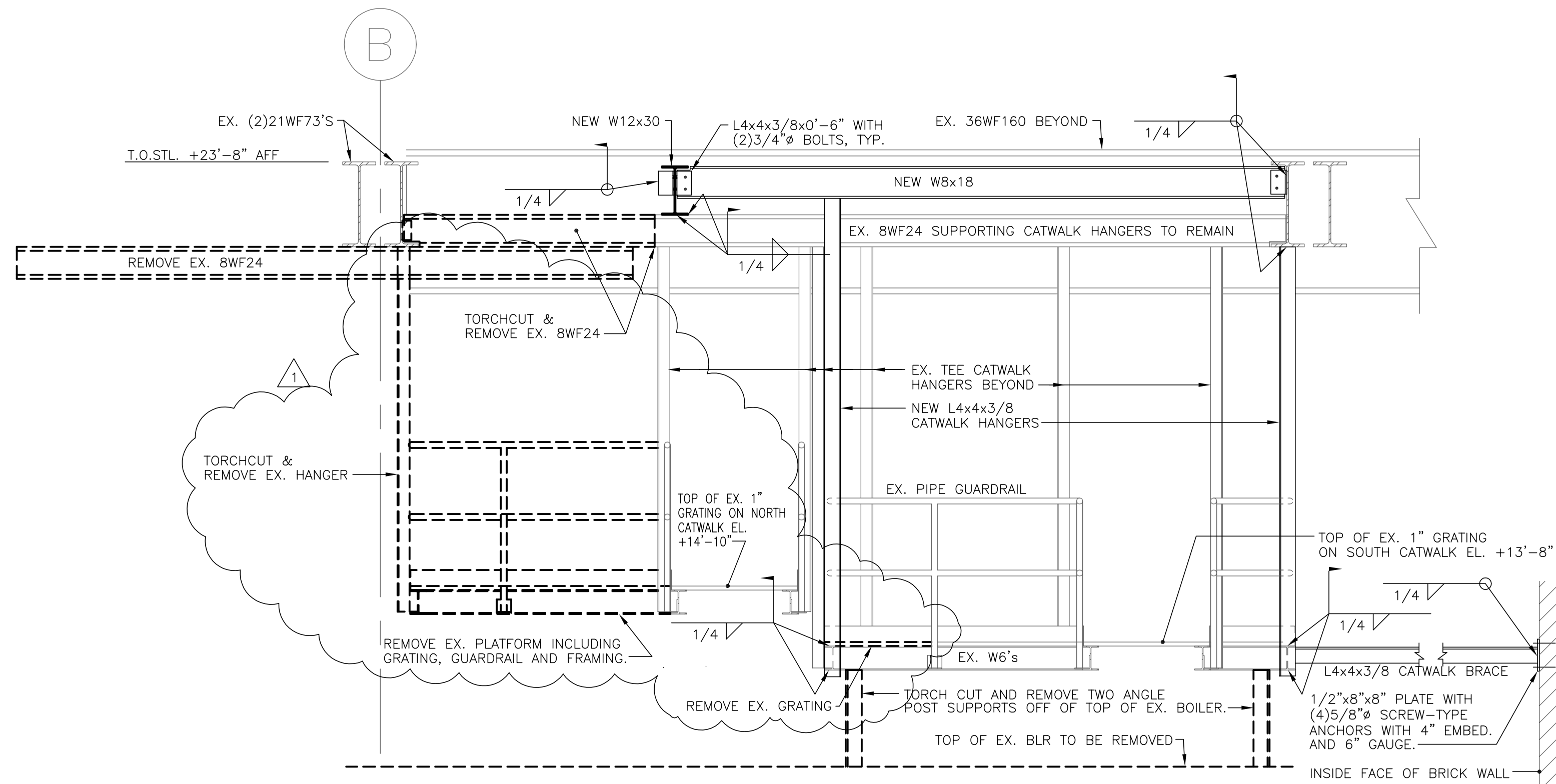
CLIENT: NYS DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
2	08-26-16	ADDENDUM No.1
1	07-20-16	BID DOCUMENTS

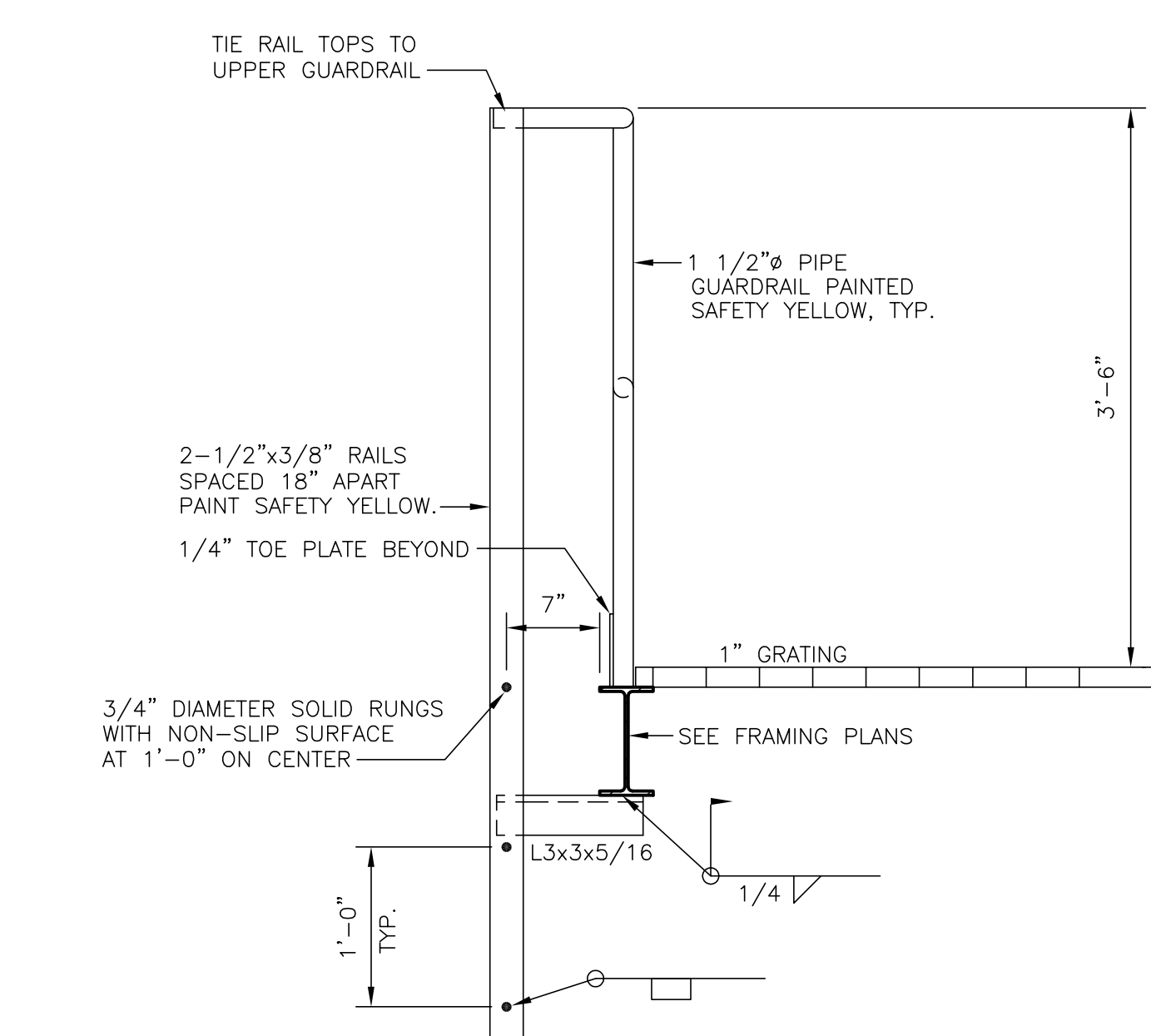
PROJECT NUMBER: 44985-H
DESIGNED BY: JKR
DRAWN BY: JKR
FIELD CHECK: JKR
APPROVED: _____
SHEET TITLE: DETAILS

DRAWING NUMBER: MS-502

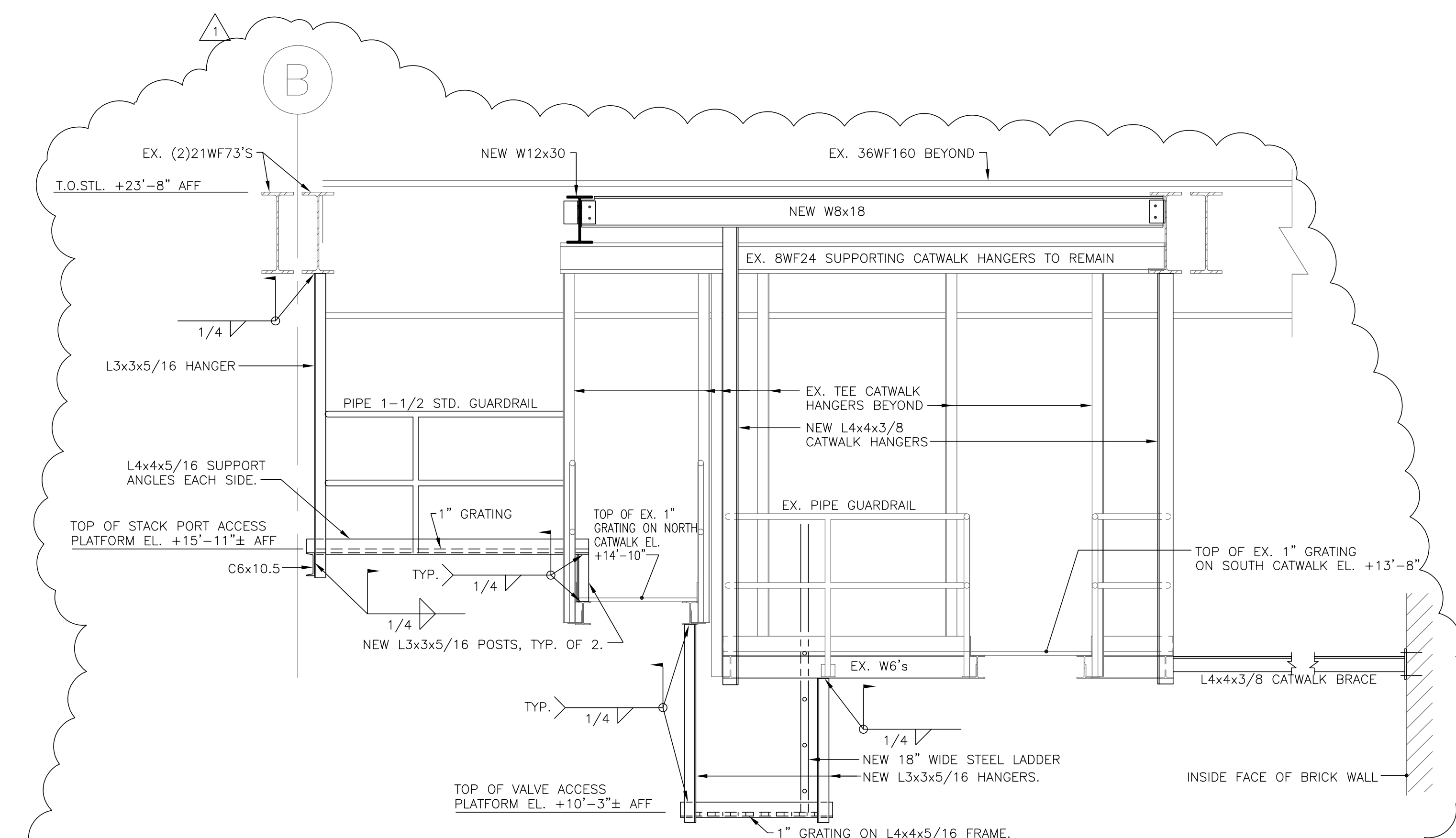
SHEET XX OF



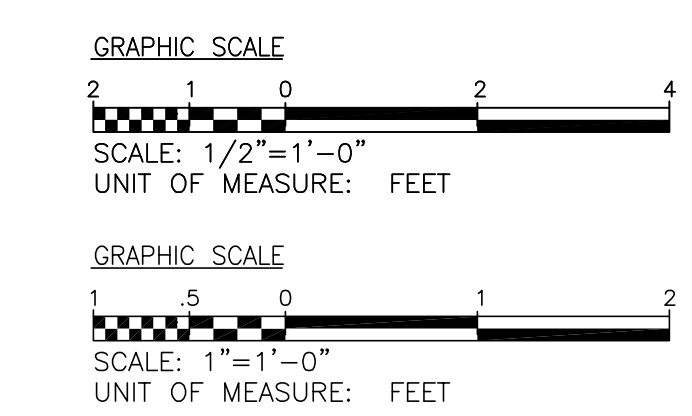
1A FRAMING MODIFICATIONS ABOVE BOILER
MS1-02 MS5-02 MS1-04
SCALE: 1/2" = 1'-0"



NOTES:
1. PROVIDE L3x3x1/4x0'-3" CLIPS AT BASE OF RAILS, WELD TO TOP OF STEEL BEAM, OR THRU-BOLT THRU EX. GRATING. ENSURE EX. GRATING PANEL IS WELDED DOWN.
2 TYPICAL LADDER DETAIL
MS-104 MS-502 SCALE: 1" = 1'-0"



1B SECTION - VALVE ACCESS & STACK PORT ACCESS PLATFORMS
MS1-02 MS5-02 MS1-04
SCALE: 1/2" = 1'-0"



REVISED DRAWING
08/26/16