



PROVIDE NEW GAS METER. GAS METER SET TO 2 PSI AT 1900 SCFH.

PROVIDE 1" GAS LINE UP EXTERIOR SIDE OF BUILDING.

PROVIDE 3/4" GAS LINES TO EACH COGEN UNIT.

DRAIN MUFFLERS AND BOTTOM OF STACK. PITCH 1/8"/FT.

MUFFLER

PROVIDE FLORENTINI VENTLESS REGULATOR AT EACH COGEN. GAS PRESSURE SHALL BE SET TO 15" W.C. TYPICAL.

**MECHANICAL PLAN**  
SCALE: 1/4"=1'-0"

**MECHANICAL GENERAL NOTES**

- MECHANICAL/PLUMBING DRAWINGS TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
- MECHANICAL/PLUMBING DRAWINGS DO NOT NECESSARILY SHOW ALL RELATED WORK; CONTRACTOR SHALL UTILIZE ALL DRAWINGS IN CONTRACT DOCUMENTS FOR DIVISION 15 MECHANICAL WORK.
- UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL MECHANICAL/PLUMBING SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR AND EQUIPMENT.
- PLANS, DETAILS AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE SYSTEM. THESE ARE DIAGRAMMATIC AND DO NOT SHOW ALL BENDS, COUPLINGS, OFFSETS, VALVES, DRAINS, FITTINGS, HANGERS, CLEANOUTS AND ACCESS DOORS WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SYSTEM. THUS, REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
- BEFORE SELECTING MATERIAL, EQUIPMENT AND PROCEEDING WITH WORK, INSPECT ALL AREAS WHERE MATERIALS AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY AND NEEDED SPACE FOR PLACEMENT AND CLEARANCES.
- BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS, INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
- LOCATE ALL EQUIPMENT WHICH REQUIRES SERVICING IN FULLY ACCESSIBLE POSITIONS. IF REQUIRED FOR BETTER ACCESSIBILITY, FURNISH ACCESS DOORS FOR THAT PURPOSE. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY. ANY CHANGE SHALL BE SUBMITTED FOR THE OWNER REPRESENTATIVE FOR APPROVAL.
- ALL EQUIPMENT IS REQUIRED TO BE LISTED OR APPROVED BY TESTING LABORATORY AND SHALL BEAR THE LABEL OF SAID LABORATORY.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH ALL STATE AND LOCAL GOVERNING AUTHORITIES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH STATE OF CONNECTICUT BUILDING CODE 2005 EDITION WITH AMENDMENTS/SUPPLEMENTS.
- ALL PIPING OR CONDUITS PASSING THROUGH WALLS SHALL BE PROVIDED WITH SCHEDULE 40 STEEL PIPE SLEEVES AND SPACE BETWEEN EXTERIOR OF PIPE AND INTERIOR OF PIPE SLEEVE PACKED WITH A FIRE RATED MATERIAL EQUAL TO THE RATING OF THE WALL.
- IF A MANUFACTURER OF EQUIPMENT REQUIRES LARGER CAPACITY CIRCUITRY AND/OR EQUIPMENT; THE CONTRACTOR SHALL PROVIDE SUCH CAPACITY AND/OR EQUIPMENT UNDER HIS CONTRACT AT NO COST TO THE OWNER.
- IF A MANUFACTURER OF PROVIDED EQUIPMENT RECOMMENDS AN ACCESSORY(S) OR AN OPTION(S) FOR THE SUPPLIED EQUIPMENT; THE CONTRACTOR SHALL PROVIDE ACCESSORY(S) OR OPTION(S) AT NO COST TO THE OWNER.
- THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS. (SPECIFICATIONS, DRAWINGS AND RELATED ATTACHMENTS).
- THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY".
- ISLE AND CORRIDOR WAYS THROUGH CONSTRUCTION AREAS WHICH ARE REQUIRED FOR EGRESS (NORMAL EMERGENCY) SHALL BE KEPT CLEAR OF MATERIAL, EQUIPMENT OR DEBRIS.
- COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE AND OTHER PROJECT DISCIPLINES.
- WRITTEN REQUESTS FOR PLANNED SHUTDOWN OR INTERRUPTION OF BUILDING SERVICES, SYSTEMS OR EQUIPMENT SHALL BE MADE 72 HOURS PRIOR TO START OF THE REQUESTED SHUTDOWN PERIOD.
- PROVIDE ALL CRANES, RIGGING, STREET STAGING AND TRAFFIC CONTROL REQUIRED FOR INSTALLATION OF EQUIPMENT.
- UNLESS OTHERWISE INDICATED, PROVIDE CONTROL WIRING FOR ALL EQUIPMENT.
- UNLESS OTHERWISE INDICATED, SUPPORT PIPES WITH HANGERS SPACED IN ACCORDANCE WITH GOVERNING CODES.
- CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR PIPE EXPANSION, CONTRACTION, SLOPE AND ANCHORAGE.
- PLANS DO NOT SHOW ALL EQUIPMENT, VALVES, FITTINGS AND CONNECTIONS REQUIRED. SEE PIPING RISERS, DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SUBMIT FOR REVIEW, DETAILED SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIAL REQUIRE TO COMPLETE THE WORK. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL ACCEPTED SHOP DRAWINGS FOR THE PARTICULAR MATERIAL OR EQUIPMENT HAS BEEN APPROVED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWINGS, WHICH REQUIRES A REDESIGN OF THE STRUCTURES, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL OR ARCHITECTURAL LAYOUT; ALL SUCH REDESIGN AND ALL NEW DRAWINGS, AND DETAILING REQUIRED, THEREFORE SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE OWNER AND HIS REPRESENTATIVE. THE OWNER RESERVES THE RIGHT TO HAVE THE ARCHITECT OR ENGINEER OF HIS CHOICE PREPARE ANY REDESIGN WORK.
- TURN OVER TO OWNER ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.
- THE CONTRACTOR MAY SUBSTITUTE EQUIPMENT OF ANOTHER MANUFACTURER IF IT IS OF EQUAL QUALITY AND RATING, SUBJECT TO OWNER'S AND ENGINEER'S REVIEW AND ACCEPTANCE. WHERE CONTRACTOR SUBSTITUTES EQUIPMENT REQUIRING DIFFERENT SYSTEM CONFIGURATION, HE SHALL BE RESPONSIBLE FOR PROVIDING INSTALLATION SHOP DRAWINGS AND ALL RELATED ACCESSORY EQUIPMENT FOR A COMPLETE SYSTEM INSTALLATION.
- ASCERTAIN FROM EXAMINATION OF THE DRAWINGS, ANY SPECIAL TEMPORARY OPENINGS AND STRUCTURAL LOADINGS IN THE BUILDING REQUIRED FOR THE ADMISSION OF APPARATUS PROVIDED UNDER THIS DIVISION, NOTIFY THE OWNER ACCORDINGLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSEMBLY AND DISASSEMBLY OF EQUIPMENT AS REQUIRED TO PLACE EQUIPMENT IN ITS FINAL LOCATIONS.
- ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
- PROVIDE SEISMIC RESTRAINTS FOR ALL OTHER MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SPECIFIED HEREIN IN ACCORDANCE WITH STATE BUILDING CODE AND LOCAL CODES.

**MECHANICAL NOTES:**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DIMENSIONS AND FIELD CONDITIONS PRIOR TO STARTING WORK.
- SCOPE OF THE PROJECT CONSISTS OF INSTALLATION OF A COMPLETE AND WORKING COGENERATION SYSTEM.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A COMPLETE INSTALLATION INCLUDING, BUT NOT LIMITED TO, WIRING, ALL GAS PIPING, AND DRAINAGE CONNECTIONS FOR THE INSTALLATION OF MECHANICAL EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE FOR DAILY CLEANUP AND PROPER LEGAL DISPOSAL OF ALL DEBRIS CREATED BY THEIR WORK.
- ALL FUEL GAS PIPING SHALL BE IN COMPLIANCE WITH CURRENT INTERNATIONAL FUEL GAS, PLUMBING CODE AND ELECTRICAL CODES.
- INSTALL ALL MECHANICAL EQUIPMENT AND CONTROLS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNIT PLUMB, LEVEL, FIRMLY ANCHORED IN LOCATION INDICATED, AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
- COORDINATE ALL WORK WITH EXISTING CONDITIONS. TYPICAL.
- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, QUANTITIES AND DIMENSIONS OF EXISTING MATERIALS, PIPING, CONDUIT, FIXTURES AND/OR EQUIPMENT WITHIN AND AFFECTING PROJECT SCOPE OF WORK.
- ALL WORK SHALL BE PERFORMED IN A SAFE AND ORDERLY MANNER WITH QUALIFIED AND LICENSED PERSONNEL IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES AND ALL APPLICABLE CODES AND STANDARDS.
- BUILDINGS WILL BE OCCUPIED DURING ALL PHASES OF CONSTRUCTION. ALL WORK WILL BE PERFORMED CAUSING MINIMAL DISRUPTION TO THE FACILITY. CONTAIN AND CONTROL CONSTRUCTION DEBRIS SO AS NOT TO INTERFERE WITH DAILY OPERATION OF THE BUILDING. KEEP ALL EGRESS PATHS FREE AND CLEAR.
- CONTRACTOR SHALL NOT DAMAGE ANY EXISTING EQUIPMENT, PIPING, OR ASSOCIATED ACCESSORIES WHICH ARE TO REMAIN.
- CONTRACTOR SHALL NOT DAMAGE ANY EXISTING ELECTRICAL CONNECTIONS, WIRING AND ASSOCIATED ACCESSORIES WHICH ARE TO REMAIN.
- PROVIDE ALL REQUIRED PENETRATIONS. COORDINATE WITH EXISTING STRUCTURAL ELEMENTS. FIRE STOP ALL PENETRATIONS. TYPICAL.
- ROUTING OF ALL PIPING SHALL BE COORDINATED WITH EXISTING CONDITIONS, STRUCTURAL FRAMING ELEMENTS AND ALL OTHER PROJECT DISCIPLINES. TYPICAL.
- CONTRACTOR SHALL TEST, ADJUST AND BALANCE SYSTEM AS REQUIRED BY ALL APPLICABLE MECHANICAL/PLUMBING CODES AND STANDARDS.
- INSTALL ALL EQUIPMENT AND ASSOCIATED ACCESSORIES PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND ALL APPLICABLE CODES. TYPICAL.
- COORDINATE ALL ITEMS TO BE REMOVED WITH OWNER, PRIOR TO REMOVAL.

REV.	DESCRIPTION	DATE

CONSULTANT:

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**NOTES:**

PROJECT TITLE

CONTRACT DOCUMENTS FOR COGENERATION SYSTEM AT THE

**CUMBERLAND COUNTY JAIL**

50 COUNTY WAY, PORTLAND, MAINE

DRAWING TITLE

**MECHANICAL PLAN**

JOB NUMBER	3151.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	ST
SCALE	AS NOTED
DATE	OCTOBER 31, 2012
CAD FILE:	

SEAL: MICHAEL SALAMONE 13100 LICENSED PROFESSIONAL ENGINEER

DRAWING NO. **M-1**