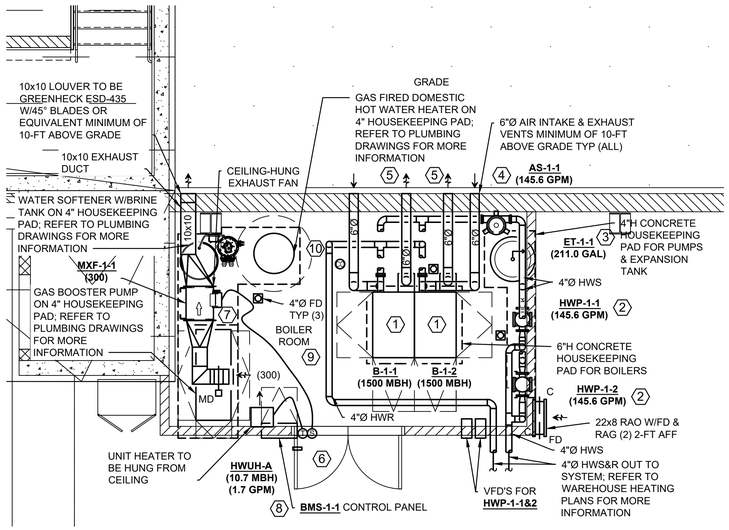

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M-107

MECHANICAL L1 WAREHOUSE BOILER ROOM PART PLAN

SCALE: 1/4" = 1'-0"

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GENERAL MECHANICAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST BUILDING STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE BUILDING STANDARDS AND MEET WITH BUILDING MANAGEMENT IN ORDER TO BECOME TOTALLY FAMILIAR WITH THE BUILDING CONSTRUCTION RULES. THERE SHALL BE NO DEVIATION FROM THE BUILDING STANDARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE BUILDING MANAGEMENT.
2. WHEN MECHANICAL WORK IS SUBCONTRACTED IT SHALL BE THE MECHANICAL CONTRACTORS RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT. IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
3. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR FOR COORDINATION AMONG ALL TRADES.
4. FURNISH & INSTALL ALL MATERIALS, EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
5. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
6. FURNISH & INSTALL VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OR 50 PIPE DIAMETERS IF ISOLATED EQUIPMENT REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS OF ALL PIPING, DUCTWORK AND EQUIPMENT VIBRATION ISOLATION.
7. LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER.
8. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR THE FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATIONS.
9. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATELY ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
10. CERTAIN ITEMS SUCH AS RISERS AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. LOCATIONS OF ALL SUCH ITEMS SHALL BE INDICATED ON SHOP DRAWINGS BY THE INSTALLING CONTRACTOR FOR REVIEW AND APPROVAL DURING THE SHOP DRAWING PROCESS.
11. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.

KEYED NOTES: (#)

1. CONTRACTOR SHALL FURNISH & INSTALL LOW PRESSURE CONDENSING BOILER AS SHOWN ON PLAN & SCHEDULED. FURNISH & INSTALL 6"H CONCRETE HOUSEKEEPING PAD FOR BOILER; COORDINATE FINAL LOCATION WITH FLOOR DRAINS, PIPING & OTHER EQUIPMENT.
2. CONTRACTOR SHALL FURNISH & INSTALL FLOOR-MOUNTED MULTI-STAGE VERTICAL INLINE PUMP AS SHOWN ON PLAN & SCHEDULE. FURNISH & INSTALL 4"H CONCRETE HOUSEKEEPING PAD WITH INTERIA BASE; COORDINATE FINAL LOCATION WITH FLOOR DRAINS, PIPING & OTHER EQUIPMENT.
3. CONTRACTOR SHALL FURNISH & INSTALL FLOOR-MOUNTED HOT WATER EXPANSION TANK AS SHOWN ON PLAN & SCHEDULE. FURNISH & INSTALL 4"H CONCRETE HOUSEKEEPING PAD; COORDINATE FINAL LOCATION WITH FLOOR DRAINS, PIPING & OTHER EQUIPMENT.
4. CONTRACTOR SHALL FURNISH & INSTALL CEILING-HUNG AIR SEPARATOR AS SHOWN ON PLAN & SCHEDULE. AIR SEPARATOR SHALL BE HUNG BELOW CONDENSING BOILER INTAKE & EXHAUST VENTS TO ALLOW FOR EASY MAINTENANCE. FINAL AIR SEPARATOR LOCATION TO BE COORDINATED WITH PIPING & OTHER EQUIPMENT..
5. CONTRACTOR SHALL FURNISH & INSTALL DOUBLE WALL VENT PIPING FOR CONDENSING BOILER; ALL EXHAUST VENT PIPING TO BE AL29-4C OR EQUIVALENT.
6. CONTRACTOR SHALL FURNISH & INSTALL MSA TAMPER-PROOF PULL STATION FOR BOILER ROOM EMERGENCY SHUTDOWN. CONSULT MECHANICAL CONTROL DIAGRAMS FOR MORE INFORMATION.
7. CONTRACTOR SHALL FURNISH & INSTALL CEILING-HUNG MECHANICAL ROOM EXHAUST FAN AS SHOWN ON PLAN & SCHEDULED. EXHAUST FAN SHALL BE AS HIGH AS POSSIBLE WHILE STILL REMAINING ACCESSIBLE FOR MAINTENANCE.
8. CONTRACTOR SHALL FURNISH & INSTALL WALL-MOUNTED BMS CONTROL PANEL. COORDINATE FINAL PANEL LOCATION WITH ALL EQUIPMENT & REFER TO MECHANICAL CONTROL DIAGRAMS FOR MORE INFORMATION.
9. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ADJACENT PLUMBING EQUIPMENT; MAINTAIN ADEQUATE CLEARANCES FOR MAINTENANCE OF ALL EQUIPMENT.
10. CONTRACTOR SHALL FURNISH & INSTALL CEILING-MOUNTED CARBON MONOXIDE DETECTOR. COORDINATE INSTALLATION WITH FIRE ALARM CONTRACTOR.

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :
CHECKED BY :
APPROVED BY :
DATE :
SCALE :

DRAWING TITLE :

MECHANICAL L1 WAREHOUSE BOILER ROOM PART PLAN

DWG NUMBER :

M-107