

SECTION 15400 - PLUMBING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. General provisions of the Contract and Division 1 specification sections apply to this section.

1.2 REFERENCE

- A. All work covered in this section shall conform to all Legal Requirements including the requirements, rules and regulations, of the following state and local authorities, and of the gas utility company:

New York City Building Code
New York State Building Code
Consolidated Edison Company

1.3 SITE SURVEY

- A. Before submitting proposal, bidder shall carefully examine existing field conditions. Design and/or as-built drawings are not available covering the plumbing systems. Submission of proposal will be construed as evidence that required examination has been made. Claims for extra labor, equipment and material required due to existing conditions, which could have been foreseen, will not be recognized.
- B. Contractor is directed to LMDC studies for information regarding Legionella in certain plumbing sections. Contractor is advised to take all appropriate precautions and may not use water contaminated with Legionella for any purposes.

1.4 QUALIFICATIONS OF CONTRACTOR

- A. Prior to commence of demolition work, submit data for approval showing that the Contractor has successfully completed a demolition project with plumbing systems of similar complexity and having such required experience.

1.5 SCOPE OF WORK

- A. The work covered by this section consists of furnishing all equipment, labor, materials, and supplies to perform all operations necessary to demolish and remove off-site all the plumbing systems at the Building at 130 Liberty Street. Tradesmen accomplishing the work in this section shall be licensed as required by local authority for the work performed.

1.6 DESCRIPTION OF WORK

- A. The plumbing systems covered in this section include but are not limited to:

Sanitary, Waste and Vent Systems
Cold, Hot and Hot Water Return Systems

Roof Storm Water Drainage Systems
Industrial Waste Water Systems
Gas Systems
Compressed Air Systems
Process Systems
Domestic and Fire Water Systems

- B. Sanitary, Waste and Vent Systems - These Systems shall be cleaned and flushed out with water.
1. Sanitary, Waste, Vent Lines and all accessories shall be demolished and removed to a point level with the ground and/or basement/crawl space floor level. Sanitary lines shall be plugged with concrete where they connect to the City sanitary manhole, outside of the building footprint. Concrete plug surface shall be shaped to conform to adjacent surfaces of the manhole.
 2. All underground lines and manholes shall be completely slurry filled with sand. Provide concrete plug on all lines at required level.
- C. Cold, Hot and Hot Water Systems - These systems must be cleaned of all asbestos materials.
1. Use qualified and licensed allied tradesmen for installation and maintenance of temporary services and facilities. Locate temporary services and facilities where they will serve the entire project adequately and result in minimum interference with the performance of the demolition work.
 2. Cold, hot and hot water return lines, and all accessories shall be demolished and removed.
- D. Roof Storm Water Drainage Systems - These systems shall be demolished and removed to a point level with the ground and/or basement floor level. For continuation, refer to Section 02010 - Stormwater Management Plan
- E. Waste Water Systems - Under this section, Contractor shall maintain these systems in accordance with the approved Deconstruction Contractors' Implementation Plan. Systems will be cleaned under this contract prior to demolition work. For continuation, refer to Section 02010 - Stormwater Management Plan.
1. Relocate, modify, and extend piping services as required during the course of the demolition work so as to maintain deconstruction systems in operation.
 2. Contractor shall provide electric power to maintain any and all systems in full operation.
- F. Gas System - The Gas System has been purged in compliance with appropriate standards and regulations, and the system will be cut-off from the Con-Edison Service at the property line. One (1) gas line remains holding air at the Mezzanine Level. This line has not been identified as of this writing, however it is the responsibility of this contractor to

check that all lines have been purged. Contractor shall remove and deliver all equipment and materials in the gas meter rig to Con-Edison warehouse if required.

1. The Contractor shall prepare and submit for review and approval the procedure(s) that will be used to void the gas piping system(s) of fuel gas and replace the fuel gas with air. Due to the complex gas piping system(s), large pipe sizes and 10 PSI gas pressure, the Contractor should consider a combination of the different purging methods available. Approved combustible gas detectors shall be used to confirm that the gas piping system(s) has been completely purged of fuel gas. Contractor shall submit to the Owner certification that tests have been performed and that system(s) has been purged of fuel gas and filled with air. Certification form(s) must be received by the Owner before demolition work will be authorized to start/proceed (also refer to 1.6.6).
 2. On notice to proceed from the Owner, the Contractor under this section will demolish and remove the existing gas systems to include all accessories.
- G. Compressed Air Systems - Upon notice to proceed, the Contractor shall drop the pressure in the equipment and piping system down to atmosphere pressure. Demolition and removal of the compressed air system should be phased in with normal building demolition work. This work has been completed in earlier phases. Contractor is responsible to remediate any remaining systems.
- H. Process Systems - All equipment and piping systems shall be environmentally cleaned prior to removal.
- I. Domestic and Fire Water Systems - Site water distribution grid and electric fire pump are assumed to be decommissioned.
1. Contractor shall demolish and remove system components as follows
 - a) Arrange with NYC Water Department to cut water service to the site at 130 Liberty Street.
 - b) Cut and cap/plug City water service, provide bands/rods with anchor blocks.
 - c) All piping to the water meter room shall be removed. Contractor shall remove and deliver to the New York City Water Department warehouse all equipment and materials in the water meter room if required.
 - d) Demolish and remove fire pump, fire water storage tank and all interconnecting piping. Cut and cap/plug water lines at the underground water mains.
 - e) Existing Underground Water Distribution Grid (Domestic and Fire) is to remain and all piping location crawl space shall be removed after it has been taken out of service. All underground lines remaining shall be capped and plugged. Change this to reflect standpipe.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION 15400