

## SECTION 02072 - FUEL OIL STORAGE TANK REMOVAL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specifications Sections, apply to this section.
- B. Subcontractor Qualifications: Deconstruction Contractor must submit the qualifications for the subcontractors proposed for completing the work covered by this section to the Owner for review and approval.
- C. Related Work Specified Elsewhere.
  - 1. Environmental Remediation Specification Section 02089.

#### 1.2 DESCRIPTION OF WORK

- A. This section includes all work necessary to demolish and remove one (1) full five hundred gallon (500 gal.) diesel fuel oil storage day tank, all piping, pumps and appurtenances, on the 39<sup>th</sup> floor.
- B. Remove also one (1) drained fuel tank and container box located at the North Plaza Area. Refer to 02089 for Diesel Fuel disposal requirements.
- C. The Deconstruction Contractor shall submit for approval the proposed phasing and scheduling of this work as required by section 01311 of these specifications.

#### 1.3 REGULATORY REQUIREMENTS

- A. New York State regulations:
  - Petroleum Bulk Storage — 6NYCRR Parts 612-614
  - Hazardous Waste manifest System and Related Standards for Generators, Transporters and Facilities — 6 NYCRR Part 372
  - Waste Transporters Permits — 6 NYCRR Part 364
  - Identification and Listing of Hazardous Waste — 6 NYCRR Part 371
- B. Code of Federal Regulations:
  - Hazardous Waste Disposal — 40 CFR Parts 260-265
  - Hazardous Waste Operations and Emergency Response — 29 CFR Part 1910.120
  - Permit Required confined Spaces — 29 CFR, 1910.146

#### 1.4 SUBMITTALS

- A. General: Submit each item in this Article according to the conditions of the Contract and Volume 1 Specification Sections, for information only, unless otherwise indicated to the Owner or Owner's Authorized Representative.
- B. Notification to the New York State Department of Environmental Conservation (NYSDEC) that fuel oil storage tank will be permanently closed. Notification must be received by the DEC within thirty (30) days prior to closure. Report closure in accordance with 6 NYCRR Part 612.2(d) and 613.9 (c).
- C. Schedule of selective demolition activities indicating the following:
  - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.
  - 2. Coordination for shut-off, capping, and continuation of utility services.
  - 3. Use of elevator or stairs (if necessary).
- D. Landfill records indicating receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

#### 1.5 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with governing NYSDEC notification regulations before starting selective demolition. Comply with hauling and disposal regulations of the NYSDEC and USEPA.

#### 1.6 PROJECT CONDITIONS

- A. Conduct demolition so as that local operations are not disrupted.
- B. LMDC assumes no responsibility for the actual condition of materials and equipment to be demolished.
- C. Storage or sale of stored items on-site shall not be permitted.

### PART 2 - PRODUCTS (Not Applicable)

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Survey the condition of the building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of the structure or adjacent structure during demolition.

### 3.2 PREPARATION AND REMOVAL

- A. Remove petroleum product from tank to the lowest level possible (draw off point)
- B. Drain product from fill, supply and return piping. Flush lines with water. Remove product lines and cap at tank. Leave vent pipe in place, do not disconnect until tank is purged.
- C. Liquid remaining below draw off point is tank bottoms. Pump out entire tank bottom using explosion proof pump, hand pump or vacuum pump. If tank must be entered to remove residual sludge, perform purge of tank and comply with OSHA Confined Space Entry Procedures, 29 CFR 1910.146.
- D. Purge tank of petroleum vapors until tank is inerted and vapor levels are below the lower explosive limit (LEL) when tested by a combustible gas indicator (CGI). Test the tank for oxygen-deficiency prior to entering tank for cleaning. The tank may be inerted by adding solid carbon dioxide (dry ice) to the tank in the ratio of at least 1.5 pounds per 100 gallons of tank capacity. Before proceeding with cleaning, all dry ice must be evaporated.
- E. After the tank is purged, cut a large hole in the top of the tank.
- F. Remove residual tank bottoms and clean tank interior with high-pressure rinse. Recover waste and water, place in disposal drums and dispose of in accordance with all applicable regulations.
- G. Following cleaning, remove vent pipe and cut tank into manageable sections. Remove tank scrap from the building. Tanks that have been cleaned are considered scrap metal and be disposed of at a recycling center.
- H. If necessary, demolish or clean cement floors as necessary in the vicinity of the tanks in accordance with Specification Section 02089.
- I. Tank bottoms and fuel oil contaminated water shall be transported by a licensed waste hauler in accordance with 6 NYCRR Part 364.
- J. Tank bottoms and waste water shall be treated at a facility that is designated to treat fuel oil contaminated tank bottoms and has an issued SPDES permit which specifies the discharge of treated tank bottom waste water.
- K. Conduct demolition operations and remove debris to ensure minimum interference with roads, streets, walks, or other adjacent buildings.

### 3.3 DISPOSAL OF DEMOLISHED MATERIAL

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off site in order to be legally disposed or recycled.

END OF SECTION 02072