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**Partie 1      General**

**1.1            RELATED REQUIREMENTS**

- .1      The list of work sections in this division is indicative and non-exhaustive. It does not exclude the works described in the other specification sections, shown in the drawings or necessary for the execution of the works in keeping with overall intent of the plans.
- .2      Section 01 35 29.06 - Health and Safety.
- .3      Section 01 35 43 - Environmental Procedures.
- .4      Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .5      Section 02 41 99 - Demolition.
- .6      Section 02 81 01 - Hazardous Materials.
- .7      Section 05 50 00 - Metal Fabrications.
- .8      Section 31 23 33.01 - Excavating, Trenching and Backfilling.
- .9      Section 33 65 73 – Concrete encased duct banks and manholes.

**1.2            SUMMARY**

- .1      Section includes :
  - .1      Work outlined in this division consists of recuperating, reusing and the complete or partial removal of various identified structures as well as the backfilling of excavation trenches inside the work limits such as :
    - .1      Removal, salvage, adjustments, modifications, and reuse of :
      - .1      The fence and access doors on the Southern side of the site. Pieces of this existing fence must be used to assemble the type A fence.
    - .2      Removal, adjustment, reuse of :
      - .1      The last steel fence section to be maintained delimiting the South-East side of the site.
      - .2      The last steel fence section to be maintained delimiting the NBC parking.
    - .3      Demolition of :
      - .1      The fence and steel doors in front of the building on the Northern side of the site. Pieces of this existing fence can be used to assemble the type A fence.
      - .2      The mesh fence.
    - .4      Removal, and recuperate :
      - .1      Panels, commemorative plaques on stone, signs, support posts.

- .5 Demolition or decommissioning of :
  - .1 All the obsolete underground pipings and its associated structures whether it is shown on the demolition plan or not.
  - .2 All the concrete incased utilities ducts as well as obsolete access wells structures whether it is shown on the demolition plan or not, in coordination with the Electricity division.
  - .3 All the posts, cables, aerial cables, lights, obsolete projectors, etc. whether it is shown on the demolition plan or not in coordination with the Electricity division.

### **1.3 ADMINISTRATIVE REQUIREMENTS**

- .1 Site Meetings :
  - .1 Convene pre-demolition meeting to :
    - .1 Verify project requirements.
    - .2 Review installation and substrate conditions.
    - .3 Co-ordination with other building subtrades.
    - .4 Review manufacturer's installation instructions and warranty requirements.
  - .2 Arrange for site visit with Departmental Representative to examine existing site conditions adjacent to demolition work, prior to start of Work.
- .2 Scheduling :
  - .1 Meet project time lines without compromising specified minimum rates of material diversion.
  - .2 Notify Departmental Representative in writing when unforeseen delays occur.
- .3 Survey of existing structures :
  - .1 The Contractor must conduct a survey of the existing fence prior to demolition. The survey will be used as a model of the existing layout to build the new fence and doors.
  - .2 The Contractor must survey the capped sewer pipes, the decommissioned concrete incased utilities duct and integrate this information to his "as built plan".

### **1.4 DELIVERY, STORAGE AND HANDLING**

- .1 Storage and Protection :
  - .1 Protect in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.
  - .2 Protect existing items designated to remain and items designated for salvage. In event of damage to such items, immediately replace or make repairs to approval of Departmental Representative.
  - .3 Remove and store materials to be salvaged, in manner to prevent damage.

- .4 Store and protect in accordance with requirements for maximum preservation of material.
- .5 Handle salvaged materials as new materials.

## **1.5 SITE CONDITIONS**

- .1 Perform work in accordance with Section 01 35 43 - Environmental Procedures.
- .2 The Contractor must refer to metalwork subcontractor for dismantling and salvage of fence sections to be reused.
- .3 Site Environmental Requirements :
  - .1 Ensure that selective demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
  - .2 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .4 Waste Management and Disposal :
  - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .2 Divert excess materials from landfill to site approved by Departmental Representative.
  - .3 Separate waste for reuse and recycling and place in designated containers in accordance with Waste Management Plan.
  - .4 Place materials defined as hazardous or toxic waste in designated containers.
  - .5 Label location of salvaged material storage areas and provide barriers and security devices.
  - .6 Ensure emptied containers are sealed and stored safely.
  - .7 Materials that cannot be salvaged for reuse, including wood, metal, concrete and asphalt, shall be source separated for recycling.
  - .8 Remove materials that cannot be salvaged for reuse or recycling and dispose of in accordance with applicable codes at licensed facilities.

## **1.6 SITE CONDITIONS**

- .1 Environmental Requirements :
  - .1 Perform work in accordance with Section 01 35 43 - Environmental Procedures.
  - .2 Ensure that selective demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
  - .3 Do not dispose of waste containing volatile materials including but not limited to, mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.
    - .1 Ensure proper disposal procedures of such waste are maintained throughout the project.
  - .4 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers or onto adjacent properties.

- .5 Control disposal of water containing suspended materials or other harmful substances in accordance with local authorities.
- .6 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .2 Existing Conditions :
  - .1 Prior to start of demolition Work, remove contaminated or hazardous materials from site as defined by authorities having jurisdiction and dispose of at designated disposal facilities in safe manner in accordance with TDGA and other applicable regulatory requirements and Section 02 81 01 - Hazardous Materials.

## **Partie 2 Products**

### **2.1 Not used.**

## **Partie 3 Execution**

### **3.1 PREPARATION**

- .1 Inspect site with Departmental Representative and verify extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain.
- .2 The Contractor must refer to plan and coordinate demolition, salvage, removal and reuse of materials on site with Departmental Representative.
- .3 Locate and protect utility lines. Protect active utilities crossing construction site so they remain operational.
- .4 Notify and obtain approval of utility companies before starting demolition.
  - .1 Sewer and Water Lines: Remove to property line as directed by Departmental Representative and securely plug to form watertight seal.
  - .2 Other Underground Services: Remove and dispose of as directed by Departmental Representative.

### **3.2 REMOVAL OPERATIONS**

- .1 Remove items as indicated.
- .2 Do not disturb items designated to remain in place.
- .3 Salvage :
  - .1 Dismantle items containing materials for salvage and stockpile salvaged materials.
- .4 Disposal of Material :
  - .1 Dispose of materials not designated for salvage or reuse on site.
  - .2 Trim disposal areas to approval of Departmental Representative.
  - .3 Dispose of materials not designated for alternate disposal including concrete bases, boxes, cabinets, connections and piping attached to fencing. Dispose of demolition materials off site.

- .5 Removal of Pavement, Curb and Gutters :
  - .1 Square up adjacent surfaces to remain in place by saw cutting or other method approved by Departmental Representative.
  - .2 Protect adjacent joints and load transfer devices.
  - .3 Protect underlying and adjacent granular materials.
- .6 Excavate at least 300 mm below pipe invert when removing pipes under existing or future pavement area.
- .7 Pipes decommissioning :
  - .1 Pipes decommissioning must be done as described in section 10.6 (NQ 1809-300).
  - .2 At any time, the contractor must do a TV inspection of pipes to be decommissioned before injecting them.
- .8 Salvage :
  - .1 Dismantle structures containing materials for salvage and stockpile salvaged materials at locations as indicated.
- .9 Disposal of Material :
  - .1 Dispose of materials not designated for salvage or reuse on site as instructed by Departmental Representative at authorized facilities approved in Waste Reduction Workplan.
- .10 Backfill :
  - .1 Backfill in areas as indicated and in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.

### **3.3 STOCKPILING**

- .1 Label stockpiles, indicating material type and quantity.
- .2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.
- .3 Locate stockpiled materials convenient for use in new construction to eliminate double handling wherever possible.
- .4 Stockpile materials designated for alternate disposal in location which facilitates removal from site and examination by potential end markets, and which does not impede disassembly, processing, or hauling procedures.

### **3.4 REMOVAL FROM SITE**

- .1 Remove stockpiled material as directed by Consultant, when it interferes with operations of project.

### **3.5 RESTORATION**

- .1 Restore areas and existing works outside areas of demolition to conditions that existed prior to beginning of Work.

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**3.6 PROTECTION**

- .1 Repair damage to adjacent materials or property caused by selective site demolition.

**END OF SECTION**