

## **1. General**

### **1.1 Section Includes**

- 1.1.1 This Section specifies the requirement for demolishing, salvaging and removing, in whole or in part, various items designated to be removed as outlined in the Contract Drawings and Documents including, but not limited to, concrete pads, concrete bases, underground electrical cables and conduits, fire pits, playground equipment garbage bins and fire stations. It also includes the requirements for backfilling resulting trenches, holes and pits and the removal of the equipment and materials to areas within the park as designated by the owner. All playground equipment to be salvaged for owner.

### **1.2 Related Sections**

- 1.2.1 Section 01 33 00 - Submittal Procedures.
- 1.2.2 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- 1.2.3 Section 02 81 01 – Hazardous Materials.
- 1.2.4 Section 01 45 00 – Quality Control.
- 1.2.5 Section 31 23 33 – Excavating, Trenching and Backfilling.

### **1.3 References**

- 1.3.1 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
- Material Safety Data Sheets (MSDS).
- 1.3.2 Transport Canada (TC)
- Transportation of Dangerous Goods Act, 1992 (TDGA), c. 34.
  - Motor Vehicle Safety Act (MVSA), 1995.
- 1.3.3 Canadian Standards Association (CSA International).
- CSA S350-R1998, Code of Practice for Safety in Demolition of Structures.
- 1.3.4 National Building Code of Canada (NBC).

### **1.4 Definitions**

- 1.4.1 Alternate Disposal: Reuse and recycling of materials by designated facility, user or receiving organization which has a valid certificate to operate. Alternative to Landfill Disposal.

1.4.2 Recycle: Process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products.

1.4.3 Recycling: Process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for purpose of using in altered form.

- Recycling does not include burning, incinerating, or thermally destroying waste.

## **1.5 Performance Requirements**

1.5.1 Perform work in accordance with the requirements of this section and its related sections.

## **1.6 Delivery, Storage and Handling**

1.6.1 Perform Work in accordance with Environmental Protection Plan.

1.6.2 Storage and Protection.

- Protect in accordance with Section 31 23 33 - Excavating, Trenching and Backfilling.
- 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 the Departmental Representative and at no cost to the Owner.
- Remove and store materials to be salvaged, in manner to prevent damage.
- Store and protect in accordance with requirements for maximum preservation of material.
- Handle salvaged materials as new materials.

## **1.7 Waste Management and Disposal**

1.7.1 Divert excess materials from landfill to site approved by the Departmental Representative.

1.7.2 Separate for reuse and recycling and place in designated containers Steel, Metal, and Plastic waste in accordance with Waste Management Plan.

1.7.3 Place materials defined as hazardous or toxic in designated containers.

1.7.4 Label location of salvaged materials storage areas and provide barriers and security devices.

1.7.5 Ensure emptied containers are sealed and stored safely.

1.7.6 Separate recycling materials that cannot be salvaged for reuse.

1.7.7 Remove materials that cannot be salvaged for reuse or recycling and dispose of in accordance with applicable regulations.

**2. Products**

**2.1 Not Used**

**3. Execution**

**3.1 Preparation**

3.1.1 After contract award the Contractor shall schedule and complete a site visit in the conjunction with the Departmental Representative for the purpose of verifying items designated for demolition and removal and all items to be preserved.

3.1.2 Locate and protect utility lines. Preserve in operating condition active utilities traversing the site. Notify owner before starting demolition.

3.1.3 Disconnect utility lines to be demolished in accordance with the rules and regulations of Authorities having jurisdiction. Post warning signs on electrical lines and equipment which must remain energized to serve other properties during period of demolition.

**3.2 Removal**

3.2.1 Remove items indicated in the Contract Documents.

3.2.2 Removal of all items shall be strictly in accordance with the Occupational Health and Safety Act regulations and in accordance with this section.

**3.3 Excavation**

3.3.1 Perform all excavation in accordance with Section 31 23 33 – Excavating, Trenching and Backfilling.

3.3.2 Excavation required for the work to be carried out under this Section shall be performed in such a manner as, to leave undisturbed adjacent structures or other work to be left in place, and to save where necessary for purposes of backfill, the acceptable excavated materials.

3.3.3 Excavation material which is not required for the backfilling of the void resulting from the structure removal, shall be used for embankment construction or disposed of as set out elsewhere in the Contract Documents.

**3.4 Stockpiling**

3.4.1 Label stockpiles, indicating material type and quantity.

3.4.2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.

3.4.3 Locate stockpiled materials convenient for use in new construction. Eliminate double handling wherever possible.

- 3.4.4 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.

**3.5 Disposal of Material**

- 3.5.1 Dispose of material not designated for salvage or reuse in work, off-site, at an approved disposal location.

**3.6 Backfill**

- 3.6.1 Place approved backfill as required to properly remediate and grade the affected areas where concrete structures have been removed below grade.
- 3.6.2 Section 31 23 33 – Excavating, Trenching and Backfilling.
- 3.6.3 Type of Backfill to be approved by the Departmental Representative.

**3.7 Restoration**

- 3.7.1 Keep site clean and organized throughout demolition and deconstruction.
- 3.7.2 Upon completion of the work, the Contractor shall remove debris, trim surfaces and leave the work site in a clean and graded condition.
- 3.7.3 Upon completion of project reinstate all areas affected by Work to match condition of adjacent undisturbed areas.

**4. Measurement and Basis for Payment**

**4.1 Measurement for Payment**

- 4.1.1 This item will be measured for payment as a lump sum item and shall be comprised of the items outlined for demolition and removal in the Contract Drawings and Specifications.

**4.2 Basis for Payment**

- 4.2.1 All costs associated with work specified in this section shall be deemed to be included in the appropriate unit and lump sum prices quoted in the Schedule of Quantities and Prices.