

## **1 General**

### **1.1 SECTION INCLUDES**

- .1 Methods and procedures for deconstruction of structures and parts of structures, elements as shown on drawings.

### **1.2 RELATED SECTIONS**

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 35 29 - Health, Safety and Emergency Response Procedures.
- .3 Section 01 35 43 - Environmental Procedures.
- .4 Section 01 74 19 - Construction / Demolition Waste Management and Disposal.

### **1.3 REFERENCES**

- .1 Canadian Standards Association (CSA International).
  - .1 CSA S350-(R1998), Code of Practice for Safety in Demolition of Structures.
- .2 Federal Legislation.
  - .1 Canadian Environmental Assessment Act (CEAA), 1995, c. 37.
  - .2 Canadian Environmental Protection Act (CEPA), 1999, c. 33.
  - .3 Motor Vehicle Safety Act (MVSA)

### **1.4 DEFINITIONS**

- .1 Alternate Disposal: reuse and recycling of materials by designated facility, user or receiving organization which has valid Certificate of Approval to operate. Alternative to landfill disposal.
- .2 Deconstruction: systematic dismantling of structure in a manner that achieves safe removal/disposal of hazardous materials and maximum salvage/recycling of materials.
  - .1 Ultimate objective is to recover potentially valuable resources while diverting from landfill what has traditionally been significant portion of waste system.
- .3 Hazardous Materials: dangerous substances, dangerous goods, hazardous commodities and hazardous products, including but not limited to: corrosive agents, flammable substances, ammunition, explosives, radioactive substances, or other material that can endanger human health, well being or environment if handled improperly.
- .4 Recycle: process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products.
- .5 Recycling: process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for purpose of using in altered form.
  - .1 Recycling does not include burning, incinerating, or thermally destroying waste.
- .6 Reuse: repeated use of product in same form but not necessarily for same purpose. Reuse includes:
  - .1 Salvaging reusable materials from remodeling projects, before demolition stage, for resale, reuse on current project or for storage for use on future projects.
  - .2 Returning reusable items including pallets or unused products to vendors.
- .7 Salvage: removal of structural and non-structural materials from deconstruction/ disassembly projects for purpose of reuse or recycling.
- .8 Source Separation: acts of keeping different types of waste materials separate, beginning from first time they became waste.
- .9 Waste Management Coordinator (WMC): contractor representative responsible for supervising waste management activities as well as coordinating related, required submittal and reporting requirements.

### **1.5 SUBMITTALS**

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
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- .2 Prior to beginning of Work on site submit detailed Waste Reduction Workplan in accordance with Section 01 74 19 - Construction/Demolition Waste Management and Disposal and indicate:
  - .1 Descriptions of and anticipated quantities in percentages of materials to be salvaged reused, recycled and landfilled.
  - .2 Schedule of selective demolition.
  - .3 Number and location of dumpsters.
  - .4 Anticipated frequency of tippage.
  - .5 Name and address of haulers.

## 1.6 QUALITY ASSURANCE

- .1 Ensure Work is performed in compliance with CEPA.

## 1.7 ENVIRONMENTAL REQUIREMENTS

- .1 Do Work in accordance with Section 01 35 43 - Environmental Procedures.

## 1.8 SITE CONDITIONS

- .1 Existing Conditions.
  - .1 Should materials resembling spray or trowel applied asbestos or other designated substance listed as hazardous be encountered in course of deconstruction, stop work, take preventative measures, and notify Departmental Representative immediately. Do not proceed until written instructions have been received.
- .2 Protection.
  - .1 Take precautions to protect environment.

## 1.9 PROTECTION

- .1 Protect existing items designated to remain. In event of damage, immediately replace such items or make repairs to approval of Departmental Representative and at no additional cost to Owner.

## 1.10 DESCRIPTION OF WORK

- .1 Perform all demolition and removal as specified in this Section and indicated on the Drawings.

## 1.11 DEMOLITION

- .1 Demolish the following items:
  - .1 Remove, disassemble and/or demolish existing as noted on drawings.

## 1.12 SALVAGE

- .1 Salvage the following items and deliver surplus to Owner at designated location (in Charlottetown) as directed by Departmental Representative.
  - .1 Doors
  - .2 Door Frames
  - .3 Door Hardware:
    - .1 Latches
    - .2 Hinges
    - .3 Closers
    - .4 Push / Pulls
    - .5 Grilles
    - .6 Signage
  - .4 Demountable 'Starwall' Partitions

- .5 Door Hooks
- .6 Garbage Cans
- .7 Sprinkler Heads
- .8 Ceiling Diffusers
- .9 Ceiling Tiles
- .10 Light Fixtures
- .11 Emergency Exit Lights
- .12 Motion Sensors
- .13 Speakers
- .14 Fire Alarm Bell
- .15 Thermostats
- .16 Face Plates
- .17 Electrical Outlets
- .18 Switches
- .19 Radiators
- .20 Data Plates
- .21 Hand Sanitizers

## **2 Products**

### **2.1 EQUIPMENT**

- .1 Leave equipment and machinery running only while in use.
- .2 Where possible use water efficient wetting equipment / trucks / attachments when minimizing dust.

## **3 Execution**

### **3.1 SITE VERIFICATION OF CONDITIONS (remove if not required)**

- .1 Determine if Environmental Assessment (EA) is required under requirements of CEAA.
  - .1 If necessary, employ licensed consultant to perform EA.
  - .2 Communicate findings and conclusions in writing to Departmental Representative prior to start of Work.

### **3.2 PREPARATION**

- .1 Do Work in accordance with Section 01 35 29 - Health, Safety and Emergency Response Procedures.

### **3.3 DISASSEMBLY**

- .1 Employ workmanship procedures which minimize damage to materials and equipment.
- .2 Ensure workers and subcontractors are briefed to carry out work in accordance with appropriate deconstruction techniques.
- .3 Deconstruct in accordance with CSA S350.
- .4 Workers must utilize adequate fall protection.
- .5 Systematically remove finishes.
- .6 Source separate for recycling materials that cannot be salvaged for reuse.
- .7 Remove materials that cannot be salvaged for reuse or recycling and dispose of in accordance with applicable codes at licensed facilities.

### **3.4 PROCESSING**

- .1 Supply separate, marked disposal bins for categories of waste material.

### **3.5 MATERIAL REUSE**

- .1 All materials being reused are to be handled with care. Contractor carries responsibility for the replacement of damaged or broken materials specified for reuse.

**3.6 REMOVAL FROM SITE**

- .1 Transport material designated for alternate disposal by approved haulers in accordance with applicable regulations.

**3.7 CLEANING AND RESTORATION**

- .1 Keep site clean and organized throughout deconstruction.
- .2 Upon completion of project, remove debris, trim surfaces and leave work site clean.
- .3 Upon completion of project, reinstate areas affected by Work to condition which existed prior to beginning of Work.

END OF SECTION

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