

**Part 1 General**

**1.1 RELATED REQUIREMENTS**

- .1 Section 04 03 43.13 – Period Stone Masonry Dismantling.

**1.2 REFERENCES**

- .1 Definitions:
  - .1 Deconstruction: systematic dismantling of structure in a manner that achieves safe removal/disposal of materials and maximum salvage/recycling of materials.
  - .2 Demolition: rapid destruction of structure with or without prior removal of hazardous materials.
  - .3 Disassembly: physical detachment of materials from structure: prying, pulling, cutting, unscrewing.
  - .4 Salvage: removal of structural and non-structural materials from deconstruction/disassembly projects for purpose of reuse or recycling.
- .2 Reference Standards:
  - .1 Canadian Standards Association (CSA International)
    - .1 CSA S350-M1980(R2003), Code of Practice for Safety in Demolition of Structures.

**1.3 SEQUENCING**

- .1 Coordinate work of this Section with dismantling work of Section 04 03 43.13 – Period Stone Masonry Dismantling.

**1.4 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 00 10 - General Instructions.
  - .1 Before proceeding with selective demolition of supporting elements of the removed existing granite slabs and steps and where required by authority having jurisdiction submit proposed method for review by Departmental Representative.

**1.5 STORAGE AND HANDLING REQUIREMENTS**

- .1 Deliver, store and handle materials in accordance with Section 01 00 10 – General Instructions and with manufacturer's written instructions.
- .2 List of salvage items for re-installation:
  - .1 Granite stone slabs and steps.
  - .2 Bronze metal railings, balusters, fittings, connectors, fasteners and glass guards.
- .3 Packaging Waste Management.
  - .1 Separate waste materials for reuse and recycling in accordance with Section 01 00 10 - General Instructions.

## **1.6 ENVIRONMENTAL REQUIREMENTS**

- .1 Ensure demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air noise pollution.
- .2 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .3 Prevent extraneous materials from contaminating air beyond demolition area. Provide temporary enclosures during Work.
- .4 Prevent blowing dust and debris: cover or wet down dry materials and waste.
- .5 Protect salvaged materials from vandalism, theft, adverse weather, or inadvertent damage by heavy machinery.
- .6 Organize site and workers in manner which promotes efficient flow of materials through disassembly, processing, stockpiling, and removal.

## **1.7 SITE CONDITIONS**

- .1 Review Section 01 14 25 – Designated Substances Report and take precautions to protect environment.

## **Part 2 Products**

### **2.1 NOT USED**

- .1 Not used.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Inspect site with Departmental Representative and verify extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and re-installation, and items to remain.
- .2 Verification of conditions:
  - .1 If materials resembling spray or trowel-applied asbestos or other designated substance is encountered in course of the Work, stop work, take preventive measures, and notify Departmental Representative immediately. Proceed only after receiving written instructions.
  - .2 Immediately notify Departmental Representative should uncharted utility or service be encountered, and await instruction in writing regarding remedial action.

### **3.2 PREPARATION**

- .1 Inventory and record condition of items for removal and re-installation and items for removal and salvage in accordance with Section 04 03 43.13 – Period Stone Masonry Dismantling.

- .2 Perform surveys as the Work progresses.
  - .1 Detect hazards resulting from selective demolition activities.

### **3.3 PROTECTION OF IN-PLACE CONDITIONS**

- .1 Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees, landscaping, adjacent grades and parts of building to remain in place.
  - .1 Provide bracing, shoring and underpinning as required.
  - .2 Repair damage caused by demolition as directed by Departmental Representative.
  - .3 If safety of supporting structure or adjacent structures appears to be endangered, take preventive measures. Cease operations and immediately notify Departmental Representative.
- .2 Keep noise, dust, and inconvenience to occupants to minimum.
- .3 Protect building systems, services and equipment.
- .4 Provide temporary dust screens, covers, railings, supports and other protection as required.
- .5 Preserve active utilities traversing site in operating condition.
- .6 Do Work in accordance with Section 01 35 29 - Health and Safety Requirements.

### **3.4 DECONSTRUCTION AND SALVAGE**

- .1 List of salvage items for re-installation:
  - .1 Granite stone slabs and steps.
  - .2 Bronze metal railings, balusters, fittings, connectors, fasteners and glass guards.
  - .3 Metal grilles at edge of Lower Landing east side and west side granite slabs.
- .2 Dismantle, remove, store and protect for re-installation existing bronze metal railings, components and glass guards where indicated on Contract Drawings.
  - .1 Identification System.
    - .1 Label salvaged railing components and guards using identification system.
    - .2 Create identity labels with numbering and positioning information.
      - .1 Ball-point pen on diachylon, attached to component.
      - .2 Attach components' identity labels with non-marking ties.
- .3 Perform stone salvage dismantling operations in accordance with Section 04 03 43.13 – Period Stone Masonry Dismantling.

### **3.5 DISASSEMBLY, DEMOLITION AND REMOVALS**

- .1 Disassemble and remove temporary wood stairs, platforms, half-wall, railings, insulation, dimpled drainage sheeting and compressive joint filler where indicated on Contract Drawings.

- .2 After removal of granite masonry:
  - .1 Perform demolition work in accordance with CSA S350.
  - .2 Demolish and remove existing mortar pads, stone pea gravel, waterproofing membrane material and break out, grind off concrete topping overlay to sound concrete slab as required to achieve new slopes at area of work indicated on Contract Drawings:
    - .1 At connection of Lower Landing and east and west parapet walls: Leave in place edge strip of 250 mm of existing membrane and protection sheet.
    - .2 Protect adjacent joints and load transfer devices.
- .3 Minimize disturbance to adjacent surfaces and elements:
  - .1 Use hand tools and small power tools for sawing and grinding, not hammering and chopping.
- .4 Avoid imposing excessive loads on supporting structure:
  - .1 Locate selective demolition equipment and removals equipment away from supporting structure.
  - .2 Remove debris and materials promptly.

### **3.6 PATCHING AND REPAIR**

- .1 Promptly patch and repair damage caused by selective demolition and removals operations to adjacent surfaces to remain.

### **3.7 DISPOSAL**

- .1 Dispose of removed materials, except where specified otherwise, in accordance with authority having jurisdiction.
- .2 Promptly dispose of demolished materials.
  - .1 Do not allow demolish materials to accumulate on site.
- .3 Remove and transport demolition debris from site. Prevent spillage on adjacent surfaces and areas.

### **3.8 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 00 10 – General Instructions.
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 00 10 – General Instructions.
- .3 Refer to demolition drawings and specifications for items to be salvaged for reuse.
- .4 Construction Waste Management: separate waste materials for reuse recycling in accordance with Section 01 00 10 – General Instructions.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

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SELECTIVE DEMOLITION  
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**END OF SECTION**