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**Part 1            General**

**1.1               RELATED REQUIREMENTS**

- .1       Section 01 33 00 – Submittal Procedures.

**1.2               REFERENCES**

- .1       Reference Standards:
  - .1       Health Canada/Workplace Hazardous Materials Information System (WHMIS)
    - .1       Safety Data Sheets (SDS).
  - .2       Transport Canada (TC)
    - .1       Transportation of Dangerous Goods Act, 1992 (TDGA), c. 34.

**1.3               ACTION AND INFORMATIONAL SUBMITTALS**

- .1       Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2       Shop Drawings:
  - .1       Submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning, where required by authorities having jurisdiction.

**1.4               DELIVERY, STORAGE AND HANDLING**

- .1       Storage and Protection.
  - .1       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 and at no cost to Departmental Representative.
  - .2       Remove and store materials to be salvaged, in manner to prevent damage.
  - .3       Store and protect in accordance with requirements for maximum preservation of material.
  - .4       Handle salvaged materials as new materials.

**1.5               SITE CONDITIONS**

- .1       Site 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 of 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 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 or runoff of water containing suspended materials or other harmful substances in accordance with local requirements and as directed by Departmental Representative.
- .6 Protect trees, plants and foliage on site and adjacent properties where indicated.

## **Part 2 Products**

### **2.1 EQUIPMENT**

- .1 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

## **Part 3 Execution**

### **3.1 PREPARATION**

- .1 Inspect site with Departmental Representative and verify extent and location of items designated for removal, disposal, recycling, salvage and items to remain.
- .2 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
- .3 Notify and obtain approval of utility companies before starting demolition.

### **3.2 REMOVAL OPERATIONS**

- .1 Remove items as indicated.
- .2 Do not disturb items designated to remain in place.
- .3 Protection of in-place conditions:
  - .1 Work in accordance with Section 01 35 43 - Environmental Procedures and the Erosion Protection and Sediment Control Plan.
  - .2 Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees, landscaping, adjacent grades, properties or parts of existing building to remain.
    - .1 Provide bracing, shoring and underpinning as required.
    - .2 Repair damage caused by demolition as directed by Departmental Representative.
  - .3 Support affected structures and, if safety of structure being demolished appears to be endangered, take preventative measures, stop Work and immediately notify Departmental Representative.
  - .4 Prevent debris from blocking surface drainage system, mechanical and electrical systems which must remain in operation.
- .4 Removal of pavements, curbs and gutters:
  - .1 Square up adjacent surfaces to remain in place by saw cutting.

- .2 Protect adjacent joints and load transfer devices.
- .3 Protect underlying and adjacent granular materials.
- .5 Prevent contamination with base course aggregates, when removing asphalt pavement.
- .6 Excavate at least 300 mm below pipe invert, when removing pipes under existing or future pavement area.
- .7 Remove designated trees during demolition.
  - .1 Obtain written approval of Departmental Representative prior to removal of trees.
- .8 Stockpile topsoil for final grading and landscaping:
  - .1 Provide erosion control and ground cover if not immediately used.
- .9 Salvage:
  - .1 Dismantle items containing materials for salvage and stockpile salvaged materials at locations as directed by Departmental Representative.
- .10 Disposal of Material:
  - .1 Dispose of materials not designated for salvage or reuse on site at authorized facilities and as approved by the Departmental Representative.
- .11 Backfill:
  - .1 Backfill in areas as indicated.

### **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 Departmental Representative, when it interferes with operations of project.
- .2 Dispose of materials at designated disposal facilities off-site.
  - .1 Written authorization from Departmental Representative is required to deviate from disposal facilities agreed upon.

### **3.5 RESTORATION**

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

- .2 Use soil treatments and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent water courses or ground water.

### **3.6 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
  - .2 Remove debris, trim surfaces and leave work site clean, upon completion of Work
  - .3 Use cleaning solutions and procedures which are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent water courses or ground water.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Waste Management: separate waste materials for reuse or recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

### **3.7 PROTECTION**

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

**END OF SECTION**