

**Part 1 General**

- .1 Reference Standards:
  - .1 Canadian Council of Ministers of the Environment (CCME)
    - .1 PN1326, Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products.
  - .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
    - .1 Material Safety Data Sheets (MSDS).
  - .3 Transport Canada (TC)
    - .1 Transportation of Dangerous Goods Act, 1992 (TDGA), c. 34.

**1.2 ACTION AND INFORMATIONAL SUBMITTALS**

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

**1.3 QUALITY ASSURANCE**

- .1 Regulatory Requirements: ensure Work is performed in compliance with applicable Provincial/Territorial regulations.

**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 Ensure that selective demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.

- .2 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.
- .3 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers or onto adjacent properties.
- .4 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authorities.
- .5 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .2 Existing Conditions.
  - .1 Remove contaminated or hazardous materials as directed by Departmental Representative from site, prior to start of demolition Work, and dispose of at designated disposal facilities in safe manner in accordance with TDGA and other applicable regulatory requirements.

## **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, alternative 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 OF HAZARDOUS WASTES**

- .1 Remove contaminated or dangerous materials defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimize danger at site or during disposal.

### **3.3 REMOVAL OPERATIONS**

- .1 Remove items as indicated.
- .2 Do not disturb items designated to remain in place.
- .3 Removal of pavements, curbs 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.
- .4 Fill types and compaction:
  - .1 Use types of fill as indicated and specified below.
    - .1 In trenches:
      - .1 Provide 250mm thick sandfill for bedding material and surround at underground services, as indicated.
      - .2 Provide new limestone 'B' granular material as indicated. Compact in 150mm lifts to 98% SPD.
- .5 Backfill:
  - .1 Do not proceed with backfilling operations until completion of the following:
    - .1 Inspection, testing, approval, and recording location of underground utilities.
    - .2 Areas to be backfilled to be free from debris, snow, ice, water and frozen ground.
    - .3 Do not use backfill material which is frozen or contains ice, snow or debris.
    - .4 Place backfill materials in uniform layers not exceeding 150mm compacted thickness up to adjacent grade. Compact each layer before placing succeeding layer.
    - .5 Backfill material to match surrounding soil type.

### **3.4 RESTORATION**

- .1 Upon completion of Work, remove waste materials and debris off site.

### **3.5 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.

### **3.6 PROTECTION**

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

**END OF SECTION**

**Part 1 General**

**1.1 PERFORMANCE REQUIREMENTS**

- .1 Safe support of existing works outside areas of demolition to match condition of adjacent, undisturbed areas.
- .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.

**1.2 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop drawings: submit drawings stamped and signed by professional engineer registered or licensed in Province of Manitoba, Canada.
- .3 Provide schematic drawings showing specific procedure for transporting structure.
- .4 Provide drawings of shoring, bracing and temporary framing plans including lifting points to Departmental Representative for review.
- .5 Provide recording of photographs for components to be temporarily removed.
- .6 Provide to Departmental Representative copies of permits, certificates, and other documents verifying approval of Authorities having Jurisdiction.
- .7 Provide moving schedule.
- .8 Submit record drawings in accordance with Section 01 33 00 Submittal Procedures and 07 78 00 – Closeout Submittals.

**1.3 QUALITY ASSURANCE**

- .1 Qualifications:
  - .1 Contractor undertaking work in this section is required to have a minimum of 5 years of experience in this field.
  - .2 Submit written information including resumes, Certificates of Qualification, references for review and approval by Departmental Representative before commencing work.
  - .3 Workers accepted by Departmental Representative will be permitted to execute work.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not used.

**Part 3            Execution**

**3.1                NOT USED**

.1            Not used.

**END OF SECTION**