

**Part 1 General****1.1 REFERENCES**

- .1 CSA International
  - .1 CSA S350-M1980(R2003), Code of Practice for Safety in Demolition of Structures.
- .2 Environment Canada, (EC)/Environmental Protection Services (EPS)
  - .1 Environmental Code of Practice for Elimination of Fluorocarbons Emissions from Refrigeration and Air Conditioning Systems SOR/2003-289.

**1.2 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 00 10 – General Instructions.
- .2 Submit demolition drawings:
  - .1 Submit for review and approval by Departmental Representative drawings showing sequence of demolition work, shoring and underpinning drawings stamped and signed by professional engineer registered or licensed in the Ontario, Canada, showing proposed method.

**1.3 DELIVERY, STORAGE AND PROTECTION**

- .1 Perform work in accordance with Section 01 00 10 – General Instructions
- .2 Protect existing items 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 Owner.
- .3 Remove and store materials to be salvaged, in manner to prevent damage.
- .4 Store and protect in accordance with requirements for maximum preservation of material.
- .5 Handle salvaged materials as new materials.

**1.4 SITE CONDITIONS**

- .1 Site Environmental Requirements:
  - .1 Perform work in accordance with Section 01 00 10 – General Instructions.
  - .2 Ensure that selective demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
- .2 Review "Designated Substance Report" and take precautions to protect environment.
- .3 If material resembling spray or trowel-applied asbestos or other designated substance listed as hazardous be encountered, stop work, take preventative measures, and notify Departmental Representative immediately.
- .4 Proceed only after receipt of written instructions has been received from Departmental Representative.
- .5 Notify Departmental Representative before disrupting access or services.

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**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            COMPLIANCE**

- .1        Environmental Code of Practice for Elimination of Fluorocarbons Emissions from Refrigeration and Air Conditioning Systems SOR/2003-289.

**3.2            EXAMINATION**

- .1        Inspect building and 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.
- .4        Disconnect, cap, plug or divert, as required, existing public utilities within the property where they interfere with the execution of the work, in conformity with the requirements of the authorities having jurisdiction. Mark the location of these and previously capped or plugged services on the site and indicate location (horizontal and vertical) on the record drawings. Support, shore up and maintain pipes and conduits encountered.
- .5        Immediately notify Departmental Representative and utility company concerned in case of damage to any utility or service, designated to remain in place.
- .6        Immediately notify the Departmental Representative should uncharted utility or service be encountered, and await instruction in writing regarding remedial action.

**3.3            PREPARATION**

- .1        Protection of In-Place Conditions:
  - .1        Prevent movement, settlement, or damage to adjacent structures, utilities, and landscaping features and parts of building to remain in place. Provide bracing and shoring required.
  - .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        Do Work in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- .2        Demolition/Removal:
  - .1        Remove items as indicated.
  - .2        Items to be salvaged: to be determined by the Departmental Representative.
  - .3        Do not disturb items designated to remain in place.

- .3 Disposal of Material:
  - .1 Dispose of materials not designated for salvage or re-use, off-site, any costs to be included in Tender.
- .4 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.
- .5 Remove parts of existing building to permit new construction.
- .6 Trim edges of partially demolished building elements to tolerances as defined by Departmental Representative to suit future use.

### **3.4 OPENINGS**

- .1 Locate existing reinforcement, pipe and conduit and obtain approval of Designated Representative before coring or cutting existing slabs, beams or walls. Retain an independent testing company to locate existing reinforcement, pipe and conduit in the areas of proposed openings and to mark locations on the surfaces of slabs and walls on which the cores and cuts are to be started. Scan concrete using Ground Penetrating Radar (GPR) unless other methods can be shown by Contractor to accurately locate reinforcement, pipe and conduit. Mark locations and sizes of cores and openings and locations of reinforcement and conduit using indelible markers with red for top bars, green for bottom bars and black for cores, openings and conduit. If locations are not acceptable to Designated Representative, relocate proposed openings and repeat process at no extra cost to Contractor.
- .2 Coring: Do not cut existing reinforcement, pipe and conduit when coring existing concrete or masonry block unless approved in advance by Designated Representative. Save the complete length of all cores. Label each core with location taken. Make all cores available for review by Designated Representative. Dispose of cores only with approval of Designated Representative.
- .3 Cutting: Do not cut existing reinforcement, piping and conduit when cutting existing concrete or masonry block wall unless approved in advance by Designated Representative. Core the four corners and the ends of intermediate saw cuts of all openings prior to cutting sides and intermediate lines. **DO NOT OVER CUT OPENINGS.** Chip corners square if necessary. If new reinforcement is required at an opening, install reinforcement before cutting opening or shore up structure until new reinforcement is installed.

### **3.5 RESTORATION**

- .1 Restore areas and existing works outside areas of demolition to conditions that existed prior to commencement of work.
- .2 Use 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: Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.

**END OF SECTION**