

Part 1 General**1.1 RELATED SECTIONS**

- .1 Section 01 00 10 – General Instructions
- .2 Section 31 23 33.01 - Excavating, Trenching and Backfilling.

1.2 REFERENCES

- .1 Department of Justice Canada (jus).
 - .1 Canadian Environmental Assessment Act (CEAA), 1995, c. 37.
 - .2 Canadian Environmental Protection Act (CEPA), 1999, c. 33.
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).

1.3 SUBMITTALS

- .1 Submittals in accordance with Section 01 00 10 – General Instructions.
- .2 Shop drawings.
- .3 Submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning, where required by authorities having jurisdiction.
- .4 Submit drawings stamped and signed by qualified professional engineer registered or licensed in Ontario, Canada.

1.4 DELIVERY, STORAGE AND PROTECTION

- .1 Perform work in accordance with Section 01 00 10 – General Instructions
- .2 Protect in accordance with Section 31 23 33.01 - Excavating, Trenching and Backfilling.
- .3 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 Owner.
- .4 Remove and store materials to be salvaged, in manner to prevent damage.
- .5 Store and protect in accordance with requirements for maximum preservation of material.
- .6 Handle salvaged materials as new materials.

1.5 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.

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 SEQUENCE OF OPERATION

- .1 Removal
 - .1 Remove items as indicated.
 - .2 Do not disturb items designated to remain in place.
 - .3 In 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 When removing asphalt pavement for subsequent incorporation into hot mix asphalt concrete paving, prevent contamination with base course aggregates.
 - .5 When removing pipes under existing or future pavement area, excavate at least 300 mm below pipe invert.
- .2 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 Removal From Site
 - .1 Interim removal of stockpiled material will be required by Departmental Representative, if it is deemed to interfere with operations of Departmental Representative or other contractors.
 - .2 Remove stockpiles of like materials by an alternate disposal option once collection of that material is complete.

- .3 Only dispose of specified material by selected alternative disposal option as provided by Departmental Representative or for own use. Do not dispose of these materials in a landfill or a waste stream destined for landfill. Additional disposal options will be provided by Departmental Representative's, on-site waste diversion representative prior to disposal.
- .4 Salvage
 - .1 Items to be salvaged: To be determined by the Departmental Representative.
- .5 Sealing
 - .1 Seal pipe ends and walls of manholes or catch basins as indicated. Securely plug to form watertight seal.
- .6 Disposal of Material
 - .1 Dispose of materials not designated for salvage or re-use, off-site, any costs to be included in Tender.
- .7 Backfill
 - .1 Backfill in areas as indicated and in accordance with Section 31 23 33.01 – Excavating, Trenching and Backfilling.

3.3 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. Ground Penetrating Radar (GPR) scan concrete 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 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 unless approved in advance by Designated Representative. Core four corners and ends of intermediate sawcuts 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.

3.4 RESTORATION

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

3.5 CLEANUP

- .1 Upon completion of work, remove debris, trim surfaces and leave work site clean.

END OF SECTION