

1 GENERAL

- 1.1 The work of this section includes the provision of all design, labour, materials, equipment and services required for site demolition and relocations as required for a complete project. The work includes, but is not necessarily limited to, the items referenced herein:
- 1.1.1 Total demolition and removal of building and site elements as outlined in the Statement of Requirements and as required for a complete project.
 - 1.1.2 Relocation of buildings, site elements, and utilities, also noted in the Statement of Requirements.
- 1.2 Reference Standards:
- 1.2.1 Carry out building demolition in accordance with *[CSA S350-M1980]*, Code of Practice for Safety in Demolition of Structures.
- 1.3 Qualifications:
- 1.3.1 Work shall be executed by company having a 5 year minimum continuous experience in structure demolition and relocation work.
- 1.4 Protection:
- 1.4.1 Take precaution to protect all adjacent structures, paving, services and planting from damage, movement, or settlement during demolition work. Make good damage caused by demolition.
 - 1.4.2 Adhere strictly to the requirements of Section 01561: Environmental Protection.
- 1.5 Submittals:
- 1.5.1 Submit for approval, where directed by the Owner or authorities having jurisdiction, detail drawings showing sequence of demolition work, structure relocation, and supporting structures and underpinning. Drawings to bear seal of qualified Professional Engineer licensed to practice in the Province of Ontario.
- 1.6 All parking meters removed as a result of this Contract to be salvaged and returned to Owner.
- 1.7 Salvaged materials become property of *[Design Builder]*; remove immediately from site. Selling of salvaged materials on site is prohibited.
- 1.8 A Designated Substance Report shall be prepared for specific hazardous materials possible present in the facility and/or project in accordance with *[Section 18(a) of the Occupational Health and Safety Act, as amended by Bill 208]*. The Owner is to undertake this study prior to demolition and this information will be made available to the *[Design Builder]* in order that they may accurately assess any costs which may be required for the removal of designated substances.

- 1.9 The [Design Builder] is required to report any designated substances likely to be used, handled or disturbed during the project, when submitting the Notice of Project Form as per *[Ministry of Labour Regulation for Construction Projects, Section 6]*.

2 EXECUTION

2.1 Preparation:

- 2.1.1 Coordinate and provide an independent utility field locate prior to all site work.
- 2.1.2 Inspect site with Owner and verify extent and location of building, and site elements designated for demolition, relocation, removal, disposal, and salvage. Identify and mark new location for items to be relocated. Verify source, capacity, and routing for utilities required to service relocated items.
- 2.1.3 Identify and protect items designated to remain.
- 2.1.4 Disconnect, cap, and re-route utilities entering buildings to be demolished or relocated. Coordinate with Owner to minimize disruption to site when work on active or energized utilities traversing premises or designated to remain is required.

2.2 Safety Code:

- 2.2.1 Unless otherwise specified, carry out demolition work in strict accordance with Section 01545- Safety Requirements.
- 2.2.2 Blasting operations are not permitted during demolition.

2.3 Building and Site Elements Demolition:

- 2.3.1 Demolish and remove all building and site elements as required by the work.
- 2.3.2 Remove slab on or below grade and foundation walls within areas of new construction.
- 2.3.3 Remove slab on or below grade and demolish foundation walls to minimum of 600 mm below finished grade beyond area of new construction.
- 2.3.4 In removal of pavements, curbs and gutters: Square up adjacent surfaces to remain in place by saw cutting or other method approved by Owner. Protect adjacent joints and load transfer devices.
- 2.3.5 At end of each day's work, leave work in safe condition so that no part is in danger of toppling or falling.

- 2.3.6 Demolish to minimize dusting. Keep materials wetted as directed by Owner.
- 2.3.7 Dispose materials not designated for salvage or reuse offsite daily in designated landfill site.
- 2.4 Structure and Site Elements Relocation:
 - 2.4.1 Coordinate execution of work with Owner to minimize interruptions to daily operation of site.
 - 2.4.2 Relocate structures and site elements as required by Work.
 - 2.4.3 Provide relocated structure and site elements with the required utilities and services. Coordinate with Owner to minimize disruption to site when work on active or energized utilities traversing premises or designated to remain is required. Make good damage caused by this work. Record location of all new and rerouted services.
 - 2.4.4 Engage qualified Professional Engineer registered to practice in the Province of Ontario to design foundations to support relocated structures and items. Submit for review prior to construction. Construct the necessary foundations from approved designs.
 - 2.4.5 Perform excavation, trenching, and backfilling for foundations in accordance with requirements of Section G1030 - Site Earthwork.
 - 2.4.6 Connect all required services to relocated items.
 - 2.4.7 Dispose material not designated for salvage or reuse off site daily in designated landfill sites.
- 2.5 Utility Relocation:
 - 2.5.1 Locate all utilities prior to starting demolition and relocation work. Verify location of existing services and review routing of proposed relocation with Owner and obtain approval prior to commencing work.
 - 2.5.2 Coordinate execution of work with Owner to minimize disruptions to daily operations.
 - 2.5.3 Disconnect and cap utilities to be abandoned. Reroute utilities required by work in subsections 2.3 and 2.4.
 - 2.5.4 Reroute utilities in accordance with requirements of technical performance specification sections in G30 – Site Civil/Mechanical Utilities, G40 - Site Electrical Utilities and G50 - Other Site Construction.
 - 2.5.5 Maintain services to all other buildings and properties entering work area operational. Make good damage caused by this work. Record location of all rerouted services.

- 2.6 Restore areas and existing works outside areas of demolition to match condition of adjacent, undisturbed areas.
- 2.7 Remove debris, trim surfaces and leave work site clean upon completion of work.

End of Section