

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 013543 – Environmental procedures
- .2 Section 015200 - Construction Facilities
- .3 Section 015600 - Temporary Barriers and Enclosures

1.2 BASIS OF PAYMENT

- .1 The lump sum price shall be full compensation for all labour, materials and equipment to do the work.

1.3 REFERENCES

- .1 Canadian Standards Association (CSA):
 - .1 CSA-S350-M1980(R2003), Code of Practice for Safety in Demolition of Structures.
- .2 Human Resources and Skills Development Canada:
 - .1 FC 301 Standard for Construction Operations.
- .3 Parks Canada:
 - .1 Standards and Guidelines for the Conservation of Historic Places in Canada, published by Parks Canada (2003).
- .4 Deutsches Institut für Normung, Germany:
 - .1 DIN 4150-3:1999, Structural vibration - Effects of vibration on structures

1.4 DEFINITIONS:

- .1 Areas of Heritage Protection: Heritage areas or assemblies designated to require protection. All building elements, heritage materials, heritage surfaces, or elements otherwise identified by the Departmental Representative in these areas are to be conserved and protected.
 - .1 All work executed on these assemblies, near these areas, or within these areas is to be executed with the utmost care.
 - .2 Work executed on these assemblies, near these areas, or within these areas is subject to strict supervision and scrutiny by the Departmental Representative.

1.5 PERFORMANCE REQUIREMENTS

- .1 The Contractor is responsible for any damage to or loss of Heritage Materials occurring as a result of site activities.
- .2 Unless otherwise agreed to with the Departmental Representative, the Contractor must prevent any works from taking place in a distance of one (1) meter of built elements to protect, and under the dripline of trees identified to be protected or preserved.

- .3 Apply excavation methods that minimize the risk of damage to Heritage Materials.
- .4 Provide shoring or other bracing for any and all conditions where the structural integrity of materials or systems, historic or otherwise, are being affected by associated removals or other procedures required in this project.
 - .1 Design of shoring or bracing systems is the responsibility of the contractor and is subject to review by the Departmental Representative. All shoring or bracing systems must be stamped by a Professional Engineer licensed in the Province of Ontario.
- .5 All procedural methods and techniques to be utilized in the protection of heritage material, or materials that may have an impact on heritage materials, must match the standard trade techniques for the said procedures and be approved by the Departmental Representative.
- .6 Any temporary or protective measures employed by the Contractor must be reversible and leave no permanent trace, deformation or scarring on elements to protect.
- .7 All elements to protect that will be damaged by the Contractor during execution of the Work must be replaced in kind at the expense of the Contractor.
- .8 The retaining walls, the cast iron fences, and the archaeological remains must be protected with wooden casings when work involving machinery occurs less than 5 meters from the elements. They must be fully covered with a protective wooden box.
 - .1 Protective box shall be designed by the contractor to be self-supporting. No structural members may bear on protected components.
 - .2 The protected elements must not be damaged or altered by the protective box.
 - .3 Materials: For minimum requirements, refer to section 2.1.1.
 - .4 Submit shop drawings of protective box to Departmental Representative for approval, prior to installation.
- .9 Contractor must verify all site conditions prior to construction and inform the Departmental Representative of any discrepancies.

1.6 SUBMITTALS

- .1 Provide the following submissions in accordance with Section 013300 - Submittal Procedures".
- .2 Shop Drawings:
 - .1 Submit detailed plans, sections and details of protective barrier assemblies. Show both typical and atypical configurations.
 - .2 Identify each assembly and indicate on the drawings the locations of all items.
- .3 Product Data: Submit complete manufacturer's product data for

fasteners and soft padding materials used in protective barrier assemblies.

.4 Protective Measures:

.1 Submit detailed Work procedures indicating tools and methods to be used inside or within two (2) meters of heritage areas.

.5 Schedule and Work Plan:

.1 Submit not later than 5 working days before commencement of work in areas immediately adjacent the heritage zones, a protection and schedule work plan for all work related to Areas of Heritage Protection.

1.7 SCHEDULING

.1 Inform the Departmental Representative in a timely manner of upcoming milestone reviews as identified in the schedule and work plans.

.2 Once protective measures are completed, advise the Departmental Representative and schedule a visit of the heritage areas and associated facilities for review.

1.8 QUALITY ASSURANCE

.1 Parliament Hill and Rideau Canal are designated as federally classified National Historic Sites by Parks Canada. All construction activities must be managed, sequenced, planned and executed in order to ensure the preservation of its specific characteristics as specified herein and as indicated.

.2 Perform work in accordance with established procedures for historic masonry conservation and The Standards and Guidelines for the Conservation of Historic Places in Canada, published by Parks Canada.

.3 Heritage Conservators appointed by the Departmental Representative may be present on site during protective procedures.

1.9 FIRE PREVENTION

.1 Ensure that fire safety requirements conform to the requirements of Section 010010 - General Instructions.

.2 Do not perform torch cutting of any heritage metals unless specifically authorized in writing by Departmental Representative.

PART 2-PRODUCTS

2.1 MATERIALS

.1 Material for weather protective box: wood studs and 15 mm sheet exterior plywood.

.2 Material for protection of horizontal surfaces: 15mm sheet exterior plywood or 15mm steel plates.

- .3 Protective fence according to section 015600 - Temporary Barriers and Enclosures

PART 3-EXECUTION

3.1 GENERAL

- .1 Before starting work, confirm existing conditions and variations from the original Contract Documents and notify the Departmental Representative of any discrepancy.
- .2 Anchoring or attachment to historic materials:
 - .1 The use of any mechanical fasteners on, or affecting heritage component is prohibited.

3.2 ENVIRONNEMENTAL CONTROL

- .1 Advise the Departmental Representative immediately when undocumented or concealed heritage materials or systems are discovered during the course of the Work.
- .2 Properly protect and identify these materials as indicated in this section to ensure that ongoing work within the vicinity does not disturb or further damage these materials.

3.3 ELEMENTS TO PROTECT

- 1. The retaining walls, the cast iron fences, and the archaeological remains must be protected with wooden casings when work involving machinery occurs less than 5 meters from the elements.
- 2. The north perimeter pedestrian pathway and stairs are to be protected with sheets of plywood or steel plates when machinery must circulate on these surfaces.
- 3. Buildings, monuments, commemorative plaques, lampposts, benches, guard rails and any other element to protect must be enclosed within a metal fence at a minimal distance of 2 meters.

***** END OF SECTION *****