

**SPECIFICATIONS FOR**  
**DISMANTLING AND SALVAGE OF EXISTING STRUCTURES**

**1.0 DESCRIPTION**

The Work shall consist of:

- .1 Dismantling and removing (in whole or in part) the existing structure together with salvaging, cleaning, handling and storing of all usable or valuable parts and materials, and disposing of non-salvable materials and debris;
- .2 Design, supply, fabrication, installation, maintenance and removal of demolition catch platforms;
- .3 Backfilling of cavities created; and
- .4 Site restoration.

Cofferdams and shoring (if required) shall be completed in accordance with the Specifications for Temporary Works.

**2.0 REFERENCES AND RELATED SPECIFICATIONS**

All reference standards and related specifications shall be current issue or the latest revision at the date of tender advertisement.

## 2.1 References

## 2.2 Related Specifications

- Specifications for Supplying and Placing Backfill
- Specifications for Temporary Works

**3.0 SUBMITTALS**

The Contractor shall submit the following to the Engineer, in accordance with the Special Provisions:

- .1 A detailed plan and schedule clearly illustrating the method and sequence by which the Contractor proposes to dismantle and remove the existing timber or steel structures (in whole or in part), including a description of the measures that will be implemented to meet the environmental requirements. The demolition procedure shall include detailed design notes and Shop Drawings that are sealed, signed and dated by a Professional Engineer licensed to practice in the Province of Manitoba necessary to describe the following:
  - (a) Access roads, Site Work Roads, work bridges and working platforms in accordance with the Specifications for Temporary Works.
  - (b) Type and capacity of equipment.
  - (c) Sequence of operation, including position of equipment.
  - (d) Proposed method of traffic accommodation and protection of the travelling public, when required.
  - (e) Design of demolition catch platforms.

(f) Description of the measures that will be implemented to meet the requirements of Environmental Management Procedures, including all monitoring and reporting requirements.

(g) Details and schedule of site restoration.

(h) Measures to be taken to protect adjacent structures, adjacent grades and portions of existing structure to remain.

.2 Upon completion of the Work, a letter bearing the seal of the Registered Professional Engineer certifying that he has carried out a personal inspection of the Work and the method of demolition and removal, including any temporary works and the measures to meet the environmental requirements, have been completed in accordance with his sealed plans and procedures.

.3 A description of the quantity and location for the demolition waste that will be recycled and reused.

#### **4.0 MATERIALS**

#### **5.0 CONSTRUCTION METHODS**

##### **5.1 Closing To Traffic**

The Contractor shall not close any portion of the existing rail line or roadways to traffic or begin the dismantling and removal operations without prior written approval from the Engineer. The approval will not be given until all required traffic control devices have been erected and the requirements of the traffic control plan have been met to the satisfaction of the Engineer.

##### **5.2 Dismantling and Salvaging**

###### **.1 General**

The Contractor shall be fully responsible for ensuring safety in areas underlying and adjacent to the construction site. The Contractor will be responsible for any loss or damage caused as a result of his actions. The Contractor shall prevent movement, settlement or damage to adjacent structures, grades or portions of existing structures to remain. If the safety of the structure being removed, or adjacent structures or grades appear to be in danger, the Contractor shall cease operations and notify the Engineer immediately.

All bridge components, in whole or in part, that have been deemed non-salvable by the Engineer, shall not be reused in any other bridge or structure in the future, and shall be disposed of off-site

The Contractor shall obtain and pay for all licenses and permits, and shall comply with all Municipal, Provincial and Federal regulations related to demolition and disposal of these materials.

###### **.2 Dismantling and Salvaging**

The existing structure shall be dismantled and removed in a careful and workmanlike manner and the use of equipment or facilities that might damage portions of the structure to be salvaged shall not be permitted. Bolts, screws, pins and nails shall be removed in such a manner as to avoid splitting and breaking of the timbers. Salvable material shall be cleaned, sorted and stored as to size and length for purposes of checking and preparing lists.

Salvable timber shall be trimmed to usable lengths as directed by the Engineer. Piles shall be cut off neatly at the proposed or existing ground line, as directed by the Engineer. When in water, the piles shall be cut off at the existing stream bed. All lumber such as decking shall be strapped in bundles of approximately 1 m<sup>3</sup>. The length of the salvaged stringers shall be clearly marked with yellow paint on both ends of every stringer.

### .3 Salvable Materials

Material having salvage value shall be carefully handled to avoid damage and shall be piled neatly at a location adjacent to the work. A detailed list of salvable material shall be prepared by the Contractor and provided to the Engineer.

The Contractor shall load and haul the salvaged material to the Beausejour Bridge Yard, unless otherwise specified in the Special Provisions.

Salvable material is the property of the Minister and the Contractor will be held responsible for all material not accounted for. The salvable material shall not be used by the Contractor for any of his construction operations.

### .4 Demolition Catch Platform

The demolition catch platform shall be designed and constructed as required to catch and retain all products of demolition, from falling onto roadway surfaces, railway right-of-way surfaces or open water during the Contractor's operations.

The demolition catch platform shall be designed and constructed so that the minimum vertical clearances over roadways and railways, as shown on the Drawings, are provided. The platform shall include, but not necessarily be limited to deck edge platforms and other catch platforms as required to collect and contain all products of demolition and all other debris.

### 5.3 Removal and Disposal of Non-Salvable Materials

Any debris that falls off the structures onto the underlying ground, roadway or railway right-of-way shall be immediately cleaned up by the Contractor.

The Contractor shall remove all non-salvable materials and debris from the site as soon as possible. All material shall be deemed non-salvable unless noted otherwise on the Drawings or Special Provisions. Demolition debris shall become the property of the Contractor and shall be properly disposed of at an approved location, in accordance with the applicable Provincial and Municipal Regulations and Acts. Storage of non-salvable materials and debris will not be allowed on site without the written approval of the Engineer.

The Contractor shall recycle and reuse as much of the non-salvable materials and demolition debris as is reasonably practical.

### 5.4 Backfilling of Cavities

The Contractor shall backfill all cavities created by the dismantling and removal operations with suitable material approved by the Engineer and in accordance with the Drawings and the Specifications for Supplying and Placing Backfill.

### 5.5 Site Restoration

The Contractor shall restore the site to the profile and grade as shown on the Drawings and to the approval of the Engineer.

**6.0 QUALITY MANAGEMENT**

The Contractor shall allow the Engineer unhindered access to the demolition areas and shall assist the Engineer in carrying out inspections, including provision of access platforms.

Upon completion of dismantling and removal (in whole or in part), a final inspection will be made by the Engineer.

**7.0 METHOD OF MEASUREMENT**

Dismantling and salvage of existing structures will be paid for on a lump sum basis, and no measurement will be taken for this work.

**8.0 BASIS OF PAYMENT**

Dismantling and salvage of existing structures will be paid for at the Contract Lump Sum Price for "Dismantling and Salvaging Existing Structures", measured as specified herein, and will be payment in full for performing all operations herein described and all other items incidental to the Work.