

**SPECIFICATIONS FOR**  
**INSTALLATION, RELOCATION AND REMOVAL OF PRECAST CONCRETE BARRIERS**

**1.0 DESCRIPTION**

The Work shall consist of:

- .1 Loading, transporting and unloading of precast concrete barriers, including the associated hardware, from the designated storage location to the job site;
- .2 Positioning and pinning of the precast concrete barriers at the job site;
- .3 Loading, transporting, unloading and returning of precast concrete barriers, including the associated hardware, to the designated storage location; and
- .4 Where applicable, relocating and repositioning of precast concrete barriers at the job site.

**2.0 REFERENCES AND RELATED SPECIFICATIONS**

**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 load, transport, unload, position, relocate and remove the precast concrete barriers at the job site, including the proposed traffic control procedures.

**4.0 MATERIALS**

The Department will supply some or all of the precast concrete barriers and associated hardware. The number of precast concrete barriers available and the designated storage location(s) will be provided in the Special Provisions.

The Contractor shall notify the Engineer 48 hours in advance of the intended pick-up and return of the barriers and associated hardware.

**5.0 CONSTRUCTION METHODS**

**5.1 General**

The Contractor shall inspect all precast concrete barriers and associated hardware prior to removing the material from the designated storage location. The Contractor shall notify the Engineer immediately if any material is damaged.

During loading, transporting, unloading and storing, the precast concrete barriers shall be protected and maintained in an upright position and shall be supported at the bearing areas. Care of the precast concrete barrier units shall be exercised to avoid twisting, cracking or other distortion that may result in damage to the barrier.

The Contractor shall be responsible for securing and replacing precast concrete barriers should they be lost or stolen once they have been received from the designated storage location. In the event that the concrete barriers or hardware are damaged, the Contractor shall replace and reinstall precast concrete barriers or associated hardware immediately.

The barriers may be stacked to a maximum of two (2) barriers in height.

It is the Contractor's responsibility to ascertain the actual weight of the barriers prior to transporting.

## 5.2 Installation, Relocation and Removal

The Contractor shall install, move and re-install the precast concrete barriers for the stages of construction as specified on the Drawings or as directed by the Engineer. During all stages, the barriers shall be properly aligned, pinned together and seated firmly to the roadway surface to the satisfaction of the Engineer.

At the completion of the project and when the precast concrete barriers are no longer required on site as specified by the Engineer, the Contractor shall load, transport, unload and return the barriers and associated hardware to the designated storage location specified in the Special Provisions.

The hardware shall be stored in watertight containers.

## 6.0 QUALITY MANAGEMENT

Upon installation and return of the precast concrete barriers and associated hardware to the designated storage location, the Engineer will inspect the material for damage. Any precast concrete barriers or hardware that are damaged or otherwise rendered unusable by the Engineer from improper loading, transporting, unloading and storage by the Contractor, shall be replaced by the Contractor at his own expense.

## 7.0 METHOD OF MEASUREMENT

### 7.1 Installation and Removal

Installation and removal of precast concrete barriers will be measured on a lineal length basis. The length to be paid for shall be the total number of lineal metres installed and removed in accordance with the Drawings and accepted by the Engineer.

### 7.2 Relocation and Repositioning

Relocation and repositioning of precast concrete barriers will be measured on a lineal length basis. The length to be paid for shall be the total number of lineal metres relocated and repositioned in accordance with Drawings and accepted by the Engineer.

## 8.0 BASIS OF PAYMENT

### 8.1 Installation and Removal

Installation of precast concrete barriers will be paid for at the Contract Unit Price per metre for "Installation of Precast Barriers", measured as specified herein, which price shall be payment in full for performing all operations herein described and all other items incidental to the Work.

Removal of precast concrete barriers will be paid for at the Contract Unit Price per metre for "Remove and Salvage Precast Median Barrier", measured as specified herein, which price shall be payment in full for performing all operations herein described and all other items incidental to the Work.

### 8.2 Relocation and Repositioning

Relocation and repositioning of precast concrete barriers will be paid for at the Contract Unit Price per metre for "Relocation of Precast Barrier", measured as specified herein, which price shall be payment in full for performing all operations herein described and all other items incidental to the Work.