

# Special Specification 5117

## Pedestrian Barrier



### 1. DESCRIPTION

Furnish, install, remove, or maintain pedestrian barrier mounted on concrete traffic barrier in accordance with the plans or as directed.

### 2. MATERIALS

Furnish pedestrian barrier units mounted on a horizontal concrete traffic barrier unit as shown on the plans and in accordance with the following:

- Item 421, "Hydraulic Cement Concrete"
- Item 442, "Metal for Structures"
- Item 449, "Anchor Bolts"
- Item 512, "Portable Traffic Barrier"
- Item 514, "Permanent Concrete Traffic Barrier."

### 3. CONSTRUCTION

Provide a pedestrian barrier that is equal to or better than the pedestrian barrier shown on the plan details.

3.1. **Anchoring.** Secure the base rail to the top of the concrete traffic barrier by means of a mechanical system with a minimum pull-out and shear strength of 3,000 psi. Provide corrosion resistant connecting hardware and brackets.

3.2. **Installation.** Provide a pedestrian barrier in the proposed locations that is equal to the design, quality, and appearance of the existing adjacent pedestrian barrier. Salvage and use existing removed, undamaged barrier if approved.

Mark 2 openings per 10 ft. section of traffic barrier approximately 60 in. apart. Drill a minimum of 1-1/2 in. deep holes into the concrete with a carbide tipped masonry drill. Clean the holes, place a 3/8 in. anchor bolt in each hole, and hammer it in until the threads are below the concrete surface. Place steel pipes with a plate assembly over anchor bolts and into the holes. Fasten nuts and place pedestrian barrier over the steel pipe. Place a locking pin into a 1/4 in. hole on the steel pipe. Repeat for each 10 ft. section. Slide adjacent pedestrian barriers towards each other to interlock 2 pedestrian barriers.

Remove loose or damaged material completely.

3.3. **Maintenance.** Clean the pedestrian barrier as directed.

Repair or replace and install any materials damaged or lost by the Contractor's operations at no added expense to the Department. Materials damaged by other reasons and replaced and installed by the Contractor will be measured for payment.

### 4. MEASUREMENT

This Item will be measured by the foot of installed pedestrian barrier, measurement being made along the horizontal concrete traffic barrier.

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**5. PAYMENT**

The work performed and materials furnished, in accordance with this Item and measured as provided under "Measurement," will be paid for at the unit price bid for "Pedestrian barrier (Install)." This price is full compensation for furnishing and installing pedestrian barrier materials; connecting installed pedestrian barriers to existing concrete traffic barriers; and furnishing additional materials required to complete the work which includes, but is not limited to labor, tools, equipment, backfilling any bolt holes not used, disposal of surplus materials, and incidentals.

- 5.1 **Pedestrian barrier (Install).** This price is full compensation for furnishing and installing the pedestrian barrier; cleaning, grading, and backfilling; repainting; removing and disposing of surplus material; and equipment, labor, tools, and incidentals.