

# Special Specification 5125

## Pedestrian Barrier



### 1. DESCRIPTION

Furnish, install, maintain, and remove and stockpile pedestrian barrier interlocking panels and mounting hardware placed on concrete traffic barrier in accordance with the plans or as directed.

### 2. MATERIALS

#### 2.1. Furnished by the Contractor.

Furnish pedestrian barrier interlocking panels, mounting hardware, and reflectors to be placed on concrete traffic barrier units 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"
- Item 658, "Delineator and Object Marker Assemblies."

#### 2.2. Furnished by the Department.

Department furnished interlocking panels and mounting hardware will be at a stockpile location shown on the plans or as directed.

### 3. CONSTRUCTION

Provide pedestrian barrier interlocking panels that are equal to or better than the pedestrian barrier panels shown on the plan details. The color of the panels must be gray or as directed.

**3.1. Anchoring.** Secure the interlocking panels 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 interlocking panels in the proposed locations that comply with the information in the plans. If there are existing adjoining panels to remain, all newly installed panels will be equal to the design, quality, and appearance of the existing adjacent pedestrian barrier panels. Salvage and use existing removed, undamaged barrier panels if approved.

Ensure that the cumulative nominal length of the panel units is equal to the length of the individual sections of concrete traffic barrier on which they are to be installed so that the joint between barrier sections will not be spanned by any 1 panel unit and will allow for the interlocking of the panels. Adjust the installation of panels to account for illumination poles, bridge columns, mounts on the concrete barrier, bridge deck expansion joints, or any other permanent objects that are existing or proposed. Gaps between the panel units and the permanent objects must not exceed 6 in.

Locate barrier reflectors as shown on the plans or as directed and install in accordance with Item 658 and manufacturers recommendations.

**3.3. Remove.** Ensure that upon removal of the panels, no protrusions remain on the top surface of the concrete traffic barrier.

- 3.4. Maintenance.** Clean the newly installed pedestrian barrier panels and the reflectors at intervals as directed.

After use, stockpile the interlocking pedestrian panels and mounting hardware that are to be retained by the Department at the location shown on the plans or as otherwise 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 due to 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 pedestrian barrier interlocking panel that is installed or removed and stockpiled based on the nominal lengths of the barrier sections.

#### 5. PAYMENT

The work performed and materials furnished, in accordance with this Item and measured as provided for under "Measurement," will be paid for at the unit price for "Pedestrian Barrier" of the work category specified (Furnish and Install, Designated Source, or Remove and Stockpile).

This price is full compensation for mounting pedestrian barrier panels to existing concrete traffic barriers; removal of debris and existing reflectors from the top of the concrete barrier before placement of the panels; cleaning and maintaining the barrier panels and reflectors after installation; and, furnishing additional materials required to complete the work which includes, but is not limited to equipment, labor, tools, backfilling any bolt holes not used, disposal of surplus materials, and incidentals.

- 5.1. Furnish and Install.** This price is full compensation for furnishing and installing new pedestrian barrier panels and connection hardware.
- 5.2. Designated Source.** This price is full compensation for transporting and installing Department-furnished pedestrian barrier panels and connection hardware from a designated source.
- 5.3. Remove and Stockpile.** This price is full compensation for removing existing barrier panel installations on the project (including disassembly costs) and transporting the material to the location noted on the plans for stockpiling, or as directed, and removal of debris from the top of the concrete barrier.