

ITEM 606.3402--25 - END TERMINAL FOR HPBO CORRUGATED BEAM GUIDE RAILING

1. DESCRIPTION:

- 1.01 This work shall consist of furnishing and installing End Terminals for Heavy Post Blocked-Out Corrugated Beam Guide Railing in accordance with the Contract Documents, and the manufacturer's directions and drawings.

2. MATERIALS:

- 2.01 Materials shall meet the requirements specified in the following subsections of Standard Specifications:

Wood and Timber Posts and Timber Blockouts	710-13
Corrugated Beam Guide Railing and Median Barrier	710-20
Plastic and Synthetic Block-Outs for Heavy Post Guide Rail Systems	710-26
Galvanized Coatings and Repair Methods	719-01
Reflective Sheeting, Class B	730-05



- 2.02 The posts shall be steel and of the type and dimensions indicated on the manufacturer's drawings, or where applicable the Standard Sheets.

- 2.03 Posts, soil plates, struts, bearing plates, impact heads, and other miscellaneous steel parts shall meet the requirements of ASTM A36 unless specified otherwise. Fasteners shall be as indicated on the manufacturer's drawings. All metal components shall be hot dip galvanized.

- 2.04 Reflective sheeting shall be provided by the manufacturer for the free end of the terminal. The reflectorization shall consist of alternating reflectorized four (4) inch yellow and non-reflectorized 4 ½ inch black stripes oriented at a 45 degree angle, with the lower edge of the stripes near the traveled way.

- 2.05 **Basis of Acceptance:** The barrier system shall be obtained from one of the manufacturers listed on the table below, or an approved equal, as approved by the Director, Office of Design.

- 2.06 **Basis of Approval:** End terminals shall be NCHRP 350 Test Level 3 approved. End terminals which can only be installed in a flared configuration will not be approved.

Product	Manufacturer	Contact Information
ET 2000+ w/Hinged Steel Breakaway Posts (HBA)	Trinity Industries	 www.highwayguardrail.com
SKT – SP	Road Systems, Inc.	 www.roadsystems.com

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3. CONSTRUCTION DETAILS:

- 3.01 The requirements of §606-3.01 and §606-3.04 of the Standard Specifications shall apply, except as listed below:
- A. The end terminals shall be installed after grading is completed at the locations indicated in the Plans, or where directed by the Engineer. Grading work shall be coordinated with the installation of the guide rail or removal of existing anchorage units to minimize the time the traveling public is exposed to unanchored runs of guide rail.
 - B. During periods when the public is exposed to unanchored guide rail, there shall be plastic drums, or other devices approved by the Engineer, placed in advance of the unanchored run and in advance of the ends of the rail. In addition, the ends of the rail shall be brought to the ground level, twisted over to lay flat, and shall be pinned to the ground.
 - C. In the event the end terminals become damaged, the units shall be promptly repaired. Unless another period is indicated in the Contract Documents, “promptly repaired” shall mean repaired with fourteen (14) calendar days.

4. METHOD OF MEASUREMENT:

- 4.01 The work will be measured as the number of End Terminals for Heavy Blocked-Out Corrugated Beam Guide Railing of the indicated type satisfactorily furnished and installed in accordance with these specifications. The payment limits for these units shall extend from the free end of the end terminal to the center of the ninth guide rail posts, which is located approximately 52 feet distant from the end.

5. BASIS OF PAYMENT:

- 5.01 The unit bid price per End Terminal for Heavy Post Blocked-Out Corrugated Beam Guide Railing of the indicated type shall include the cost of all labor, materials, and equipment necessary to satisfactorily complete the work.
- 5.02 The cost of earthwork, grading, top soiling, seeding, and vegetation control strips shall be paid for separately.