

- ITEM 606.3401 15 M - End Terminal for HPBO Corrugated Beam Guide Railing, ET 2000+, Steel Posts**
- ITEM 606.3451 15 M - End Terminal for HPBO Corrugated Beam Guide Railing, ET 2000+, Steel Posts (Coated)**
- ITEM 606.3501 15 M - End Terminal for HPBO Corrugated Beam Guide Railing, SKT 350, Steel Posts**
- ITEM 606.3551 15 M - End Terminal for HPBO Corrugated Beam Guide Railing, SKT 350, Steel Posts (Coated)**
- ITEM 606.3601 15 M - Optional End Terminal for HPBO Corrugated Beam Guide Railing, ET 2000+ or SKT 350, Steel Posts**
- ITEM 606.3651 15 M - Optional End Terminal for HPBO Corrugated Beam Guide Railing, ET 2000+ or SKT 350, Steel Posts (Coated)**

**DESCRIPTION.**

Under this work, the Contractor shall furnish and install End Terminals for Heavy Post Blocked-Out Corrugated Beam Guide Railing of the type and locations indicated in the Contract Documents, or where directed by the Engineer, in accordance with these specifications, applicable Standard Sheets, and the manufacturer's directions and drawings. The Engineer will be the sole determiner in the event there are differences between specifications, standard sheets, manufacturer's directions and drawings.

**MATERIALS.**

Steel foundation tubes shall meet the requirements of §710-21 Box Beam Guide Railing and Median Barrier. The posts shall be of the type and dimensions indicated on the manufacturer's drawings. Blockouts shall meet the requirements of §710-13, Wood and Timber Posts and Timber Blockouts or §710-26, Plastic and Synthetic Block-Outs for Heavy Post Guide rail Systems. Corrugated Beam Guide Railing shall meet the requirements of §710-20, Corrugated Beam Guide Railing and Median Barrier. Soil plates, steel posts, struts, bearing plates, and the guide rail extruder shall meet the requirements of ASTM A36 or ASTM A36M. Fasteners shall be as indicated on the manufacturer's drawings. All metal components shall be hot dip galvanized in accordance with §719-01, Galvanized Coatings and Repair Methods.

**Coated.** The Heavy Post Blocked-out Corrugated Beam Guide Railing (Coated) shall comply with the above requirements except metal parts exposed to view shall be painted in accordance with Section 657 Painting Galvanized and Aluminum Surfaces. Unless specified otherwise in the Contract Documents the paint color shall be "Weathered brown" in §708-05 Standard Paint Colors.

Reflective sheeting shall be provided by the manufacturer for the free end of the terminal. The reflectorization shall consist of alternating reflectorized 100 mm yellow and non-reflectorized 115 mm black stripes oriented at a 45 degree angle, with the lower edge of the stripes near the traveled way. The reflective material shall meet the requirements of §730-05, Reflective Sheeting, Class B.

**ET 2000+.** The End Terminal shall be ET 2000+ with either Hinged Steel Breakaway Posts (HBA), or Steel Yielding Terminal Posts (SYT) as fabricated by the Trinity Industries, Girard, Ohio (800-321-2755). Only one type of post shall be used in each run of guide rail.

**SKT 350.** The SKT 350 shall be the "SKT 350 Assembly for Steel Breakaway Post System 2 Foundation Tube Option" as fabricated by Road Systems, Inc., Big Springs, Texas, (915) 263-2435 or (815) 464-5917.

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**ITEM 15606.3501 M - End Terminal for HPBO Corrugated Beam Guide Railing, SKT 350, Steel Posts**

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**ITEM 15606.3601 M - Optional End Terminal for HPBO Corrugated Beam Guide Railing, ET 2000+ or SKT 350, Steel Posts**

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**CONSTRUCTION DETAILS.**

§606-3.01 General of the Standard Specifications shall apply. Posts and foundation tubes shall be driven unless otherwise approved by the Engineer. The manufacturer shall provide written installation instructions and three copies of their manufacturer's drawings, maintenance manuals, and parts lists prior to installation of the ET 2000+ or SKT 350, (Coated)

ET 2000+, SKT 350 and coated versions shall be installed after grading is completed at the locations indicated in the Plans, or where directed by the Engineer. They shall be installed in accordance with the manufacturer's instructions and the directions of the Engineer.

The work, including the necessary 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. During periods when the public is exposed to unanchored guide rail, plastic drums or other devices approved by the Engineer, shall be 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 be pinned to the ground.

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 within fourteen (14) calendar days.

**METHOD OF MEASUREMENT.**

The work will be measured as the number of End Terminals for Heavy Post 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 front of the guide rail extruder to the center of the ninth guide rail post, which is located approximately 15.8 m distant from the front of the guide rail extruder.

**BASIS OF PAYMENT.**

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 furnish and install the units between the above described payment limits. The cost of earthwork, grading, top soiling, and seeding shall be measured and paid for separately. The cost to repair units damaged by public travel will be borne by the Contractor, or the by State, in accordance with the provisions of §107-09 Damage.

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