

ITEM 15606.37 M - SLOTTED RAIL TERMINAL, STEEL POSTS
ITEM 15606.3701 M - SLOTTED RAIL TERMINAL, WOOD POSTS
ITEM 15606.3750 M - SLOTTED RAIL TERMINAL, STEEL POSTS,
(RUSTIC)
ITEM 15606.3751 M - SLOTTED RAIL TERMINAL, WOOD POSTS,
(RUSTIC)

This Specification

DESCRIPTION.

Under this work, the Contractor shall furnish and install Slotted Rail Terminals and Slotted Rail Terminals (Rustic) at the locations indicated in the contract documents or where directed by the Engineer in accordance with these specifications, manufacturer's directions, and the approved Materials Details.

MATERIALS.

The Slotted Rail Terminals and Slotted Rail Terminals (Rustic) shall be fabricated by the Syro Steel Company, Girard, Ohio (800-321-2755). All parts and the configuration of the Slotted Rail Terminals and Slotted Rail Terminals (Rustic) shall be as indicated on the approved Materials Details except as modified in these specifications.

Steel foundation tubes shall be provided for posts 1 through 10, which are the break away posts, and shall meet the requirements of §710-21 Box Beam Guide Railing and Median Barrier. Post number 1 is the post located at the free end of the slotted rail terminal. The breakaway timber posts and blockouts shall be short (1143 mm) posts of the dimensions indicated on the approved Materials Details and additionally shall meet the requirements of §710-13, Wood and Timber Posts and Timber Blockouts. Deep beam guide rail shall meet the requirements of §710-20 Corrugated Beam Guide Railing and Median Barrier and additionally shall have slots cut into it of the number, size, and location shown on the approved Materials Details. Soil plates, struts, and bearing plates shall meet the requirements of ASTM A36 or ASTM A36M. Fasteners shall be as indicated on the Materials Details.

Reflective sheeting shall be provided by the manufacturer for the free end of the terminal. The reflectorization shall consist of alternating 100 mm reflectorized yellow and 115 mm non-reflectorized 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.

Post 11 for Slotted Rail Terminals, Steel Posts, shall be a standard 150 mm by 13 or 14 kg/m heavy (strong) steel guide rail post with standard timber block-outs of the size and type indicated in the standard sheets or plans and shall comply with the requirements of §710-14 Galvanized Steel Barrier Posts if the Slotted Rail Terminal is to be connected to heavy post blocked out guide rail with steel posts. If the guide rail to which the Slotted Rail Terminal is to be connected uses timber posts, then the Post 11 shall be a timber post.

Slotted Rail Terminals, Steel Post, (Rustic) shall comply with the above requirements except metal parts exposed to view and post 11, if steel, shall meet the requirements of §710-25 Guide Rail and Median Barrier Systems (Rustic).

Posts 11 for Slotted Rail Terminals, Timber Post and Slotted Rail Terminals, Timber Post, (Rustic) shall be a standard preservative treated guide rail post of the dimensions indicated on the Plans and shall conform with the requirements of §710-13, Wood and Timber Posts and Timber Blockouts.

Silicone sealant. Silicone sealant shall be commercially available silicone sealant capable of adhering to wood and galvanized steel.

Basis of Acceptance. The Department requires the submission of Materials Details as defined in §101-34.1. The supplier shall prepare and submit the appropriate material in accordance with the procedural directives of the Design Quality Assurance Bureau (DQAB). Upon approval by DQAB, the name of the product and/or supplier, and the unique reference number assigned to the approved Materials Details by the supplier will be placed on the Approved List. Such products will then be accepted on the basis of their brand name and conformance to the approved Materials Details.

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The supplier shall provide two copies of the approved Materials Details through the Contractor to the Engineer as part of the evidence of acceptability for the material at least ten (10) days prior to the use of the product.

Slotted Rail Terminals, Steel and Wood Post and Slotted Rail Terminals, Steel and Wood (Rustic) will be accepted at the project site on the basis of 1) Appearance of the manufacturer's name on the Approved List, 2) Compliance of the delivered articles with the approved Materials Details, 3) Manufacturer's certificate of compliance with these specifications.

CONSTRUCTION DETAILS.

§606-3.01 General of the Standard Specifications shall apply. Foundation tubes shall be driven unless otherwise approved by the Engineer. The manufacturer shall provide written installation instructions and two copies of the approved Materials Details ten days prior to installation of the units.

Slotted Rail Terminals and Slotted Rail Terminals (Rustic) 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 space between the wooden posts and the steel foundation tubes shall be sealed using a commercially available silicone caulking material compatible with both steel and wood.

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. In the event that the Slotted Rail Terminal is damaged, it shall be promptly repaired. Unless a different period is indicated in the Contract Documents, the periods of exposure to unanchored rail or the time to repair it on impact shall not exceed fourteen calendar days. During periods when the public is exposed to unanchored guide rail or damaged Slotted Rail Terminals, plastic drums or other devices approved by the Engineer shall be placed in advance of the unanchored run of rail or the damaged slotted rail terminal. Ends of unanchored W-beam shall be temporarily turned down to the ground level, twisted over to lay flat, and pinned in place.

METHOD OF MEASUREMENT

The work will be measured as the number of Slotted Rail Terminals and Slotted Rail Terminals (Rustic) satisfactorily furnished and installed in accordance with these specifications. The payment limits for these units extend from the front of the boxing glove buffered end terminal to the center of the eleventh guide rail post which is located approximately 11.9 m distant from the front of the boxing glove buffered end terminal.

BASIS OF PAYMENT.

The unit bid price per Slotted Rail Terminals and Slotted Rail Terminals (Rustic) 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 Slotted Rail Terminals damaged by public travel will be borne by the Contractor or the by State in accordance with the provisions of §107-09 Damage.