

**ITEM 63606.80XX M - TRANSITION - BRIDGE RAILING OR
CONCRETE BARRIER
TO BOX BEAM GUIDE RAILING, EMERGENCY
STANDBY
CONTRACT WORK**

DESCRIPTION

This work shall consist of the construction of a guide railing transition from bridge railing or concrete barrier to box beam guide railing off a structure, in the manner and at the locations indicated on the contract plans.

MATERIALS

Unless otherwise specified, all transition elements shall meet the following:

1. All nuts and bolts used for rail splices shall be ASTM A325M - Type 3.
2. Rail sections for tangent runs shall be at least 5.5m in length.
3. All welding shall conform to the requirements of the Steel Construction Manual.
4. Unless rustic railing transition is specified, all transition elements shall meet the requirements of 710-21 "BOX BEAM GUIDE RAILING AND MEDIAN BARRIER" and the following:
 - a. Shelf angles shall be ASTM A36M or A588M.
 - b. Splice tubes shall be ASTM A500 grade B, A588M OR A242M.
 - c. Splice plates shall be ASTM A36M, A588M OR A242M.
5. When rustic railing transition is specified, the following shall apply:
 - a. All transition elements shall meet the requirements of Subsection 710-25 "GUIDE RAILING AND MEDIAN BARRIER SYSTEMS (RUSTIC)" and the following:
 - 1.) Shelf angles shall be ASTM A588M.
 - 2.) Splice tubes shall be ASTM A500 grade B, A588M OR A242M.
 - 3.) Splice plates shall be ASTM A588M OR A242M.
 - 4.) Any rail element in contact with concrete shall be galvanized and painted in accordance with Subsection 710-23 "STEEL BRIDGE AND CULVERT RAILING".

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or

710- b. All transition elements shall meet the requirements specified in 4. (above) and elements exposed to view shall be painted in accordance with Subsection 23 “STEEL BRIDGE AND CULVERT RAILING”.

CONSTRUCTION DETAILS

The requirements of Subsection 606-3 and the following shall apply.

Any curving of the rails shall be done in the fabrication plant prior to galvanizing.

Any radius less than 10m shall be made by cutting all 4 sides of the tubes and welding to approximate the specific radius. The number of welds shall be as shown on the plans or approved by the Engineer.

All welds used to splice steel tubes shall be complete penetration groove welds in accordance with the current “New York State Steel Construction Manual”.

METHOD OF MEASUREMENT

Measurement will be taken as the number of meters measured along the axis of the top rail between the limits shown on the plans.

Under no circumstances will the bottom rail be measured for payment purposes.

BASIS OF PAYMENT

The unit price bid per meter shall include the cost of all labor, equipment and material necessary to complete the work, including all costs necessary to obtain any curvature desired.

The price bid shall also include the cost of back-up posts where indicated on the plans and the cost of furnishing and installing the flared segment of the bottom rail, including splices.

Payment will be made under:

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>PAY UNIT</u>
63606.8001	Transition - Bridge Railing or Concrete Barrier to Box Beam Guide Railing, Emergency Standby Contract Work, Summer Quantity Range 1 (0.0 to 19.9)	M

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63606.8002	Transition - Bridge Railing or Concrete Barrier to Box Beam Guide Railing, Emergency Standby Contract Work, Summer Quantity Range 2 (20.0 to 39.9)	M
63606.8003	Transition - Bridge Railing or Concrete Barrier to Box Beam Guide Railing, Emergency Standby Contract Work, Summer Quantity Range 3 (40.0 to 60)	M
63606.8004	Transition - Bridge Railing or Concrete Barrier to Box Beam Guide Railing, Emergency Standby Contract Work, Winter Quantity Range 1 (0.0 to 19.9)	M
63606.8005	Transition - Bridge Railing or Concrete Barrier to Box Beam Guide Railing, Emergency Standby Contract Work, Winter Quantity Range 2 (20.0 to 39.9)	M
63606.8006	Transition - Bridge Railing or Concrete Barrier to Box Beam Guide Railing, Emergency Standby Contract Work, Winter Quantity Range 3 (40.0 to 60)	M