Box Beam Guide Rail

- **General Notes:**
  1. Post spacing shall be 1.82 m except where reduced post spacing is indicated on the contract plans. Posts are connected to guide rail at each abutment. Each section of guide rail requires post spacing to be made under the same standards as for other posts. See guide rail of the payment factors specified in contract documents.
  2. See bridge plans for guide rail details. Post spacing and pay items for transitions and connections to bridge rail.
  3. The line of the box beam guide rail, when complete, shall present a smooth and pleasing grade line in both horizontal and vertical planes.
  4. The end may be extended by one 5.48 m straight section, placed between the curved section and the end piece, to make the end closer to the edge of the clear zone. Backup may remain in place.
  5. The rail mounting height of all guide rail or median barrier placed behind curb (regardless of the curb height or speed) shall be measured from the pavement surface when the offset is 230 mm or less and to the ground surface under the face of the rail when the offset is greater.
  6. For design speeds under 80 km/h the point of redirection will be at the point of tangency.

- **Length of Piece:**
  - The length of each piece shall be cut at the specified points, allowing a smooth transition to the next section. The box beam shall be shop curved or straight as directed by the engineer. Payment shall be under the appropriate item.

- **Dimensions:**
  - All dimensions in millimeters unless otherwise noted.
  - Effective date: 01/06/2011
  - Metric standard sheet

- **Diagram Details:**
  - See box beam end piece details on Sheet 2 of 4.
  - See details on Sheet 3 of 4.
  - Typical Type I End Assembly
  - Typical Type IIA End Assembly

- **Post Spacing:**
  - Post spacing shall be 1.82 m except where reduced post spacing is indicated on the contract plans. Posts are connected to guide rail at each abutment. Each section of guide rail requires post spacing to be made under the same standards as for other posts. See guide rail of the payment factors specified in contract documents.

- **Termination:**
  - Terminate with box beam end piece or transition to other systems.

- **Material:**
  - Galvanized steel box beam
  - Carbon steel flange bolts
  - M6 x 1.25 bolts
  - Nuts with washers

- **Engineer:**
  - Richard W. Lee, P.E.
  - Approved August 26, 2010

- **Effective Date:**
  - 01/06/2011

- **Project:**
  - State of New York Department of Transportation

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  - 13 OCT 2010
  - Sheet 1 of 4

- **Revision:**
  - CURVATURE INFORMATION ON TYPE I END ASSEMBLY INCLUDED.