STANDARD HIGHWAY POSTS

SECTION A-A

SECTION B-B

ELEVATION

PLAN

TRANSITION CONCRETE BARRIER

BOX BEAMS (SEE NOTE 3)

END CONNECTIONS FOR 9'-3" - 6"

1'-4"

9" - 3'-6"

8"

FINISHED GRADE

1'-4"

52'-0" PAY LIMIT FOR TRANSITION - BOX BEAM GUIDE RAIL TO SINGLE SLOPE HALF SECTION CONCRETE BARRIER

5'-0"

HEAVY POSTS 6" X 6" X ‰"

SHELF ANGLE (TYP.)

RUB RAIL

BOX BEAM 6" X 6" X ‰"

FINISHED GRADE

1'-4"

4'-0"

6'-0"

1'-0"

2'-4"

1"

1"

3'-6"

9" - 3'-6"

ITEM (TYP.) SHALL BE INCLUDED IN THE TRANSITION ITEM (TYP.)

THE COST OF FURNISHING AND PLACING STEEL PIPE (ASTM A53 1 NPS) GALVANIZED OR P.V.C. PIPE OR 1" IN THE TRANSITION ITEM (TYP.)

NUTS AND FLAT WASHERS SHALL BE INCLUDED FURNISHING AND PLACING BOLTS WITH HEX ALL COMPONENTS TO BE GALVANIZED. COST OF ON INSIDE AND ONE SET ON OUTSIDE OF BARRIER). WITH HEX NUTS AND FLAT WASHERS (ONE SET

F" GALVANIZED THREADED ROD (ASTM A449)

THE CONCRETE TRANSITION PIECE SHALL BE BACKED UP WITH EARTH OR BACKUP POSTS.

THE VEGETATION CONTROL STRIP, WHEN SPECIFIED, SHOULD BE A MINIMUM OF 3" THICK. THE MATERIAL AND WIDTHS OF EACH LIFT SHOULD MATCH THAT IN THE ADJOINING STABILIZED SHOULDER ITEM. PAYMENT SHALL BE MADE UNDER SEPARATE ITEMS.

FOR DETAILS SEE STANDARD SHEET TITLED "TRANSITION BOX - SINGLE SLOPE - SHEET 3 OF 3".

THE DETAIL SHOWN IS FOR USE UNDER THE PAY ITEM FOR BOX BEAM GUIDE RAIL TRANSITION TO SINGLE SLOPE HALF SECTION CONCRETE BARRIER - ONE OR TWO WAY OPERATION.

THE DETAIL SHOWN IS FOR USE UNDER THE PAY ITEM FOR BOX BEAM GUIDE RAIL TRANSITION TO SINGLE SLOPE HALF SECTION CONCRETE BARRIER TRANSITION TO BOX BEAM GUIDE RAIL ONE WAY - TRAILING END OF BARRIER.

NOTES:

1. THE VEGETATION CONTROL STRIP, WHEN SPECIFIED, SHALL BE A MINIMUM OF 3" THICK. THE MATERIAL AND WIDTHS OF EACH LIFT SHOULD MATCH THAT IN THE ADJOINING STABILIZED SHOULDER ITEM. PAYMENT SHALL BE MADE UNDER SEPARATE ITEMS.

2. THE CONCRETE TRANSITION PIECE SHALL BE BACKED UP WITH EARTH OR BACKUP POSTS. SEE DETAILS ON STANDARD SHEET TITLED "TRANSITION BOX - SINGLE SLOPE - SHEET 3 OF 3".

3. FOR DETAILS SEE STANDARD SHEET TITLES "TRANSITION BOX - SINGLE SLOPE - SHEET 3 OF 3".

4. SEE DETAIL DETAILS ON THE STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

5. THE DETAIL SHOWN IS FOR USE UNDER THE PAY ITEM FOR BOX BEAM GUIDE RAIL TRANSITION TO SINGLE SLOPE HALF SECTION CONCRETE BARRIER - ONE OR TWO WAY OPERATION.

6. FOR DETAILS SEE STANDARD SHEET TITLED "TRANSITION BOX - SINGLE SLOPE - SHEET 3 OF 3".

7. FOR DETAILS SEE STANDARD SHEET TITLED "TRANSITION BOX - SINGLE SLOPE - SHEET 3 OF 3".

8. THE DETAIL SHOWN IS FOR USE UNDER THE PAY ITEM FOR BOX BEAM GUIDE RAIL TRANSITION TO SINGLE SLOPE HALF SECTION CONCRETE BARRIER TRANSITION TO BOX BEAM GUIDE RAIL ONE WAY - TRAILING END OF BARRIER.
**NOTE:**
1. Surface should be smooth.
2. The bend may be eliminated provided 1" cover is maintained.
3. Continuity connections shall be used at all joints in precast and cast-in-place single slope concrete half-section barriers.
4. Precast and cast-in-place single slope concrete half section barriers shall be backed up with back-up posts for its entire length as shown in the back-up post layout.
5. 1" concrete cover for all reinforcement, unless shown otherwise.

**Bar List**

<table>
<thead>
<tr>
<th>BAR</th>
<th>SIZE</th>
<th>NO.</th>
<th>LENGTH</th>
<th>USE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>M</th>
<th>H</th>
<th>K</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>4SM4H 4 4 8&quot; 1&quot; x 3&quot; x 3&quot; STIRRUP 10&quot; 3'-10&quot; 1'-7&quot; 4&quot; 9&quot; — AT CONCRETE BARREND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4SM4H 4 4 8&quot; 1&quot; x 3&quot; x 3&quot; STIRRUP 10&quot; 3'-10&quot; 1'-7&quot; 4&quot; 9&quot; — AT CONCRETE BARREND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4SM4H 4 4 8&quot; 1&quot; x 3&quot; x 3&quot; STIRRUP 10&quot; 3'-10&quot; 1'-7&quot; 4&quot; 9&quot; — AT CONCRETE BARREND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4SM4H 4 4 8&quot; 1&quot; x 3&quot; x 3&quot; STIRRUP 10&quot; 3'-10&quot; 1'-7&quot; 4&quot; 9&quot; — AT CONCRETE BARREND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5SM2 5 3 2'-6&quot; 1&quot; x 3&quot; x 3&quot; STIRRUP 10&quot; 3'-10&quot; 1'-7&quot; 4&quot; 9&quot; — AT CONCRETE BARREND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5SM2 5 3 2'-6&quot; 1&quot; x 3&quot; x 3&quot; STIRRUP 10&quot; 3'-10&quot; 1'-7&quot; 4&quot; 9&quot; — AT CONCRETE BARREND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- All bars are to be epoxy coated.
- Surface should be smooth.
- The bend may be eliminated provided 2" cover is maintained.
- Precast and cast-in-place single slope concrete half section barriers shall be backed up with back-up posts for its entire length as shown in the back-up post layout.
- 1" concrete cover for all reinforcement, unless shown otherwise.
- See standard detail titled "Single-slope concrete half-section barriers" for details.

**State of New York Department of Transportation**

**U.S. Customary Standard Sheet**

**Transition Box - Single Slope**

| Sheet 3 of 3 |

**Effective Date:** 25/08/2014

**Approval:**
- Drawn by: [Name]
- Checked by: [Name]
- Approved by: [Name]

**Issued Under:**
- Title 17-028
- Designation: 606-22

**Dimensions:**
- Width: 792.0
- Height: 1224.0