**NOTES**

1. Separators Type I and IV are to be used with flexible pavement. Separators Types II and V are to be used with rigid pavement.

2. Either Option I or Option II may be used for Types I and IV separators except when a specific option is called for in the plans.

3. For all separators provide 1/4" - 1/2" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers.

4. Separators having widths of 4', 6', or 8' - 6" shall be paid for under the contract unit price for Concrete Traffic Separator (Type I, 4' Wide) L.P. Separators having widths other than 4', 6', or 8' - 6" shall be detailed in the plans as special separators and paid for under the contract unit price for Concrete Traffic Separator (Special Size).
TYPICAL SECTION THRU TRAFFIC SEPARATOR
(Bridge Deck Shown, Approach Slab Similar)

- For 4'-0" width: Bars 4A @ 3 equal spaces (continuous).
- For 6'-0" width: Bars 4A @ 5 equal spaces (continuous).
- For 8'-0" width: Bars 4A @ 7 equal spaces (continuous).

- At the Contractor's option a one piece bar may be substituted for Bars 4B and 4E.

LONGITUDINAL SECTION THRU TRAFFIC SEPARATOR AT NOSE
(Bridge Deck Shown, Approach Slab Similar)

REINFORCING STEEL OPTION A

- Poured Joint with Backer Rod Expansion Joint (See Expansion Joint Details)

DETAIL AT POURRED JOINT WITH BACKER ROD EXPANSION JOINTS

Bridge Deck Shown, Approach Slab Similar

Note:
See Structures Plans, Superstructure Sheets for actual dimensions and joint orientation. Treatment of separators on straight bridges shown. For treatment of separators on skewed bridges see Index No. 490.

BRIDGE INSTALLATIONS - TYPE "E" CURB
**TYPICAL SECTION THRU TRAFFIC SEPARATOR**
(Bridge Deck Shown, Approach Slab Similar)

- For 4'-0" width: Bars 4A @ 3 equal spaces (continuous).
- For 6'-0" width: Bars 4A @ 5 equal spaces (continuous).
- For 8'-0" width: Bars 4A @ 7 equal spaces (continuous).

**LONGITUDINAL SECTION THRU TRAFFIC SEPARATOR AT NOSE**
(Bridge Deck Shown, Approach Slab Similar)

**REINFORCING STEEL OPTION A**

**DETAIL AT EXPANSION JOINTS**
(Strip Seal Shown, Other Armored Joint Types Similar)

**DETAIL AT Poured JOINT WITH BACKER ROD EXPANSION JOINTS**

**BRIDGE INSTALLATIONS — TYPE "F" CURB**

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**REINFORCING STEEL OPTION B (NOT PERMITTED ON BRIDGE DECKS WITH PRESTRESSING STEEL)**

**Note:**
See Structures Plans, Superstructure Sheets for actual dimensions and joint orientation. Treatment of separators on straight bridges shown. For treatment of separators on skewed bridges see Index No. 490.
### Alternate Reinforcing Steel Details (Welded Wire Reinforcement)

**Option A:** Use Welded Wire Reinforcement 3 x 4 - W5.0 x W6.7 as required by plans in place of Bars 4A, 4B and 4C. Bend the Welded Wire Reinforcement to the dimensions of Bar 4B shown in the Bending Diagram for Reinforcing Steel Option A.

**Option B:** Use Welded Wire Reinforcement 3 x 4 - W5.0 x W6.7 as required by plans in place of Bars 4A and 4C shown in Reinforcing Steel Option B.

Note: Welded Wire Reinforcement shall conform to ASTM A855.

**Splice Detail**

(Between WWR 3 x 4 - W5.0 x W6.7 Sections)

### Estimated Traffic Separator Quantities

**Concrete:**

- **Constant Width of Separator:**
  - **Type 'E':** 6'-0" Width = 0.086 CY per ft = 0.097 CY per ft
  - **Type 'F':** 6'-0" Width = 0.089 CY per ft = 0.112 CY per ft
  - 5'-0" Width = 0.106 CY per ft = 0.131 CY per ft

**Noise:**

- **Type 'E':**
  - 6'-0" Width = 0.070 CY
  - 6'-0" Width = 0.100 CY
  - 5'-0" Width = 0.093 CY
  - 5'-0" Width = 0.126 CY

**Reinforcing Steel:**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Type 'E'</th>
<th>Type 'F'</th>
</tr>
</thead>
<tbody>
<tr>
<td>4'-0&quot; Width</td>
<td>0.096 CY</td>
<td>0.125 CY</td>
</tr>
<tr>
<td>5'-0&quot; Width</td>
<td>0.080 CY</td>
<td>0.110 CY</td>
</tr>
<tr>
<td>6'-0&quot; Width</td>
<td>0.103 CY</td>
<td>0.137 CY</td>
</tr>
<tr>
<td>8'-0&quot; Width</td>
<td>0.407 CY</td>
<td>0.536 CY</td>
</tr>
</tbody>
</table>

### Reinforcing Steel Notes:

1. All dimensions are cut to size, and are based on a slab R65" thick or greater without a wearing surface. If slab thickness is less than R65", decrease this dimension by an amount equal to the difference in thickness. If a wearing surface is to be provided, increase this dimension by an amount equal to the wearing surface thickness.

### Reinforcing Steel Option B

**Bars 4C** See Note

**Bars 4A & 4C**

- Length as required

**Bars 4A & 4C**

- Length as required

### Reinforcing Steel Option A

**Bars 4C** See Note

**Bars 4A & 4C**

- Length as required

### Reinforcing Steel Notes:

1. All dimensions are cut to size, and are based on a slab R65" thick or greater without a wearing surface. If slab thickness is less than R65", decrease this dimension by an amount equal to the difference in thickness. If a wearing surface is to be provided, increase this dimension by an amount equal to the wearing surface thickness.

### Bridge Installations - Type "E" and "F" Curbs

### Dural Joint Detail for 5" Opening or Less

See Structures Plans, Superstructure Sheets for location(s) of drainage joints. Locations for drainage joints shall be limited to the constant width section of separator.

### Notes:

- **Concrete:** See General Notes in Structures Plans.
- **Reinforcing Steel:** Reinforcing Steel shall be ASTM A615 Grade 60.
- **Payment:** Separators having widths of 4'-0", 6'-0", and 8'-0" shall be paid under the contract unit price for Traffic Separator Concretes (Type II or IV, "A" Width), LP Separators having widths other than 4'-0", 6'-0", or 8'-0" shall be paid under the contract unit price for Traffic Separator Concrete (Special), S.Y.
- **Traffic Separator Construction:** The Contractor shall construct the separator by the use of stationary removable forms or by the use of slip forms without altering the separator dimensions shown. For all separators, provide V"-V-grooves at 5'-0" centers, unless otherwise specified between expansion joints, and/or drainage joints.

### Dowel Detail

Dowel Notes:
1. Shallow D persone is used to identify existing reinforcement is encountered.
2. Provide and install adhesive bonding material system in accordance with Sections 426 and 537 of the Specifications.