Separators having widths of 4', 6' or 8'-6" shall be paid for under the contract unit price for Concrete Traffic Separator (Type X) (Wide) LF. 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) SY.

ROADWAY INSTALLATIONS

INDEX NO.  302  SHEET NO.  1 of 4
TYPICAL SECTION THRU TRAFFIC SEPARATOR
(Bridge Deck Shown, Approach Slab Similar)

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

REINFORCING STEEL OPTION A

PARTIAL PLAN VIEW OF SKEWED BRIDGE DECK AND APPROACH SLAB WITH TRAFFIC SEPARATOR
(Dock Expansion Joint at Begin or End Bridge Shown, Expansion Joint at Q Pier or Intermediate Bents Similar)

Notes:
1. Traffic Separator transverse reinforcement adjacent to deck expansion joints shall be field adjusted to maintain clearance and spacing.
2. Bars shall be field cut as shown, bars may be rotated to maintain clearance.

Bridge Management Systems
Traffic Separators

Bridge Installations - Type "E" Curb
TYPICAL SECTION THRU TRAFFIC SEPARATOR
(Bridge Deck Shown, Approach Slab Similar)

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

Note: Treatment of separators on straight bridges shown. For additional notes and treatment of separators on skewed bridges, see Sheet 2.

BRIDGE INSTALLATIONS - TYPE "F" CURB
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

Bars 4E: See Note
Bars 4A: Length as required

Bars 4A & 4E

REINFORCING STEEL OPTION A

Bars 4C: See Note
Bars 4A: Length as required

Bars 4A & 4C

REINFORCING STEEL OPTION B

REINFORCING STEEL NOTES:

1. All dimensions are cut to cut.
2. The 8" vertical dimension shown for Bars 4B and 4D are based on a slab 8" thick or greater without a wearing surface. If slab thickness is less than 8", decrease this dimension by an amount equal to the wearing surface thickness. If slab thickness is greater than 8", increase 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.

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 4E. 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 to consist of smooth wire meeting the requirements of Specification Section 931.

SPICE DETAIL

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

DRAINAGE 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 Concrete (Type II or V) (_ Wide), LF. Separators having widths other than 4'-0", 6'-0", or 8'-0" shall be detailed in the plans as special separators and paid under the contract unit price for Traffic Separator Concrete (Special), LF.

TRAFFIC SEPARATOR CONSTRUCTION: The Contractor may construct the separator by the use of stationary removable forms or by the use of slip forms without altering the separator dimensions shown. V-GROOVES: For all separators provide V-Grooves at 30'-0" centers (max.) equally spaced between expansion joints, and/or drainage joints.

ESTIMATED TRAFFIC SEPARATOR QUANTITIES

$\text{Concrete:}$

\begin{align*}
\text{Constant Width of Separator:} & \\
\text{Type "E":} & \\
4'-0" & \text{Width} = 0.536 \text{ CY per Ft.} & - & 0.072 \text{ CY per Ft.} \\
6'-0" & \text{Width} = 0.089 \text{ CY per Ft.} & - & 0.112 \text{ CY per Ft.} \\
8'-0" & \text{Width} = 0.123 \text{ CY per Ft.} & - & 0.264 \text{ CY per Ft.} \\
\end{align*}

\text{NOTE:}

\begin{align*}
\text{Type "E":} & \\
4'-0" & \text{Width} = 0.080 \text{ CY} & - & 0.109 \text{ CY} \\
6'-0" & \text{Width} = 0.133 \text{ CY} & - & 0.237 \text{ CY} \\
8'-0" & \text{Width} = 0.403 \text{ CY} & - & 0.536 \text{ CY} \\
\end{align*}

REINFORCING STEEL:

\begin{align*}
\text{All quantities are based on an 8" slab.} & \\
\end{align*}

\text{OPTION A:}

\begin{align*}
4'-0" & \text{Width} = 8.37 \text{ Lbs. per Ft.} \\
6'-0" & \text{Width} = 8.60 \text{ Lbs. per Ft.} \\
8'-0" & \text{Width} = 11.05 \text{ Lbs. per Ft.} \\
\end{align*}

\text{OPTION B:}

\begin{align*}
4'-0" & \text{Width} = 4.77 \text{ Lbs. per Ft.} \\
6'-0" & \text{Width} = 7.00 \text{ Lbs. per Ft.} \\
8'-0" & \text{Width} = 9.45 \text{ Lbs. per Ft.} \\
\end{align*}

BRIEF INSTALLATIONS - TYPE "E" AND "F" CURBS

DOWEL DETAIL

Dowel Notes:

1. Shift Dowel Holes to clear if existing reinforcement is encountered.

2. Provide and install an adhesive bonding material system in accordance with Sections 416 and 937 of the Specifications.

NOTES:

1. Shift Dowel Holes to clear if existing reinforcement is encountered.

2. Provide and install an adhesive bonding material system in accordance with Sections 416 and 937 of the Specifications.