CURB AND GUTTER BARRIER INLET

SECTION A-A
TRANSITION BARRIER
BEGIN CROSS-SLOPE TRANSITION
(ALIGN WITH CURB AND GUTTER BARRIER, SEE INDEX 521-001)

SECTION B-B
TRANSITION BARRIER
END CROSS-SLOPE TRANSITION
(ALIGN WITH INLET STRUCTURE)

SECTION C-C
BARRIER OVER INLET STRUCTURE
(THROAT FULLY TRANSITIONED)

GENERAL NOTES:

1. Where called for in the Plans, use this inlets in conjunction with Curb and Gutter Barrier per Index 521-001. Construct Barrier segments shown herein in accordance with requirements of Index 521-001, including connections to adjacent barrier segments using the Doweled Joint.

2. Reinforcing shown is grade 60 steel bars. For the equivalent area of welded wire reinforcement for the inlets, see Index 425-032. Reinforcing shall have 2" minimum cover unless otherwise shown. Trim or bend bars to provide 1/2" clearance around pipe openings. The cost for additional reinforcing in the barrier is included in the contract unit price for Shoulder Rigid, Curb and Gutter, Each.

3. All barrier is Class II or IV concrete. When Alternate G grate is specified in the Plans, the grate is to be hot-dip galvanized after fabrication. In accordance with Specification 462-N-7.

4. For Pay Item purposes, the depth of the barrier inlet shall be computed using the center of box grate elevation, minus either the flow line elevation of the lowest pipe flow line or the top of the sump floor elevation. For larger pipe, use Alternate B bottoms, Index 425-030.

5. Where placed in areas of bicycle traffic, provide the extended crossbar to adjacent barrier segments using the Doweled Joint.

6. Grates may be fabricated with reticuline bars or with either 100% welded or 80% electroforged cross bars and bearing bars as detailed on Sheet 3.

7. When Alternate G grate is specified in the Plans, the grate is to be hot-dip galvanized after fabrication, in accordance with Specification 462-N-7.

8. Reinforcing shown is grade 60 steel bars. For the equivalent area of welded wire reinforcement for the inlets, see Index 425-032. Reinforcing shall have 2" minimum cover unless otherwise shown. Trim or bend bars to provide 1/2" clearance around pipe openings. The cost for additional reinforcing in the barrier is included in the contract unit price for Shoulder Rigid, Curb and Gutter, Each.

9. For Pay Item purposes, the depth of the barrier inlet shall be computed in accordance with requirements herein in accordance with requirements of Index 521-001, including connections to adjacent barrier segments using the Doweled Joint.

10. For inlets placed in areas of bicycle traffic, provide the extended crossbar to adjacent barrier segments using the Doweled Joint.

11. Inlets to be paid for under the contract unit price for Inlets, Barrier Rigid, Curb and Gutter, Each.

12. Concrete Barrier to be paid for under the contract unit price for Shouldered Concrete Barrier, Rigid-Curb & Gutter, LF.
DESCRIPTION:

4 ¼" 2" Precast
3" C-I-P

Bar 4B @ 12" O.C.

3'-4" 4" 5½" 2 6"
2 2" Precast 4" 8" 8 :5 6 :2 9  A M

1'-4½" 6"
1 8
1

2'-8"
6" 6"
4" 4"

BAR 5F
BAR 5L
BAR 5S
BAR 5U4M
BAR 5V2M
BAR 5S

SECTION D-D
INLET STRUCTURE
(18" Dia. Pipe Opening Shown)

SEC BEET D-A
INSET A

INSET A

INSET B ALTERNATE
(See General Note 10)

INSET B

BAR STUB (Sheet 3)

INSTALL GRATE WITH EXTENDED CROSSBAR OPTIONS (Sheet 3)

INSTALL GRATE WITH BAR STUB (Sheet 3)

To Front Of Inlet
To Front Of Inlet

TABLE 1: HORIZONTAL WALL REINFORCING SCHEDULE

<table>
<thead>
<tr>
<th>WALL DEPTH</th>
<th>AREA</th>
<th>MAX SPACING</th>
<th>BAR</th>
<th>RWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>0</td>
<td>0.20</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>4-9</td>
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<td>0.20</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>9-13</td>
<td>0.24</td>
<td>0.24</td>
<td>3½</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTES:

1. For Bar Bending Diagrams of Bars 5V2 & 5U4, See Index 521-001. Bars 5V2M, 5U4M, & 5S may be field cut from Bars 5V2 & 5U4.

2. Install PVC drainage pipes at the inlet centerline when the inlet is located in a sag curve or when drainage pipes are called for in the plans. Install a quantity of 3 ~ 3/4" PVC Schedule 40 Pipes longitudinally spaced at 8", with the center pipe as near to the inlet centerline as practical without conflicting with the steel reinforcing.

F Y 2018-19
STANDARD PLANS
CURB AND GUTTER BARRIER INLET
INDEX
425-032
SHEET
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