RAISED SIDEWALK NOTES:
1. When a 42" Vertical Shape Traffic Railing is used with a precast coping, increase Bars 4C to Bars 5C or provide Bars 4C @ 4" spacing within 6'-0" of Expansion Joints.
2. Construct the expansion joints, V-Grooves and face of coping plumb.
3. Provide Class III concrete for slightly aggressive environments or Class IV for moderately or extremely aggressive environments.
4. Dowel Load Transfer Devices will be hot-dip galvanized ASTM A 36 smooth round bar, or GFRP smooth round bars with a minimum shear strength of 22 ksi in accordance with ASTM D7617. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
5. Construct 3⁄16" Expansion Joints in raised sidewalk and C-I-P copings perpendicular or radial to the Gutter Line. Provide at 90'-0" maximum intervals as shown.
6. Shear Keys in Junction Slab are required when GFRP bars are used for Dowel Transfer Devices are provided on steel dowel bars. Tongue Slope on Shear Key must be constant and between 5° to 45° from horizontal.
7. Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 922.
8. Construct 3⁄16" V-Grooves in raised sidewalk and C-I-P coping at 30'-0" maximum intervals as shown. Space V-Grooves equally between 3⁄16" Expansion Joint and/or Begin or End Raised Sidewalk. V-Groove locations are to coincide with V-Groove locations in the Traffic Railing.
9. Spacing shown is along the Gutter Line.
10. For Precast Coping only, provide Dowel Bar 4D embedded 1'-0" and extend 9" above the top of MSE wall panels. Field cut as necessary to maintain 2" minimum cover to the top of the buildup concrete. See Wall Company Drawings for number and spacing of Dowel Bars 4D.
11. Finish Sidewalks in accordance with Specification Section 522.
12. Work this index with the following:
   - Index No. 422 - Traffic Railing - (42" Vertical Shape)
   - Index No. 423 - Traffic Railing - (32" Vertical Shape)
   - Index No. 20900 - Approach Slabs (Flexible Pavement Approaches)
   - Index No. 20910 - Approach Slabs (Rigid Pavement Approaches)
13. The following indexes contain details of the intersection of the retaining wall at approach slabs:
   - Index No. 20900 - Approach Slabs (Flexible Pavement Approaches)
   - Index No. 20910 - Approach Slabs (Rigid Pavement Approaches)

CROSS REFERENCE: For Detail "B", see Sheet 2.

VERTICAL SHAPE TRAFFIC RAILINGS

INDEX NO. 6120  SHEET NO. 1  of 3
NOTE: See Index No. 422 and Index No. 423, Railing End Detail for details.
REINFORCING STEEL BENDING DIAGRAMS - RAISED SIDEWALK

BILL OF REINFORCING STEEL

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>PRECAST COPING/RAILING</th>
<th>C-I-P COPING</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>5'-9&quot;</td>
<td>9'-1&quot;</td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>5</td>
<td>5'-0&quot;/11'-0&quot;</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>B2</td>
<td>5</td>
<td>AS Req'd</td>
<td>AS Req'd</td>
<td></td>
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</tr>
<tr>
<td>L</td>
<td>5</td>
<td>4'-5&quot;</td>
<td>4'-5&quot;</td>
<td></td>
</tr>
</tbody>
</table>

1" Ø Dowel Smooth Bar 7'-0" 7'-0"

BARS SB1, SB2, 4C & 5F

REINFORCING STEEL NOTES:
1. All bar dimensions in the bending diagrams are out to out.
2. All reinforcing steel at expansion joints will have a 2" minimum cover.
3. Lap splices for Bars SB will be a minimum of 2'-0".
4. Lap splice Bars SA with Bars 4C and splices will be a minimum of 2'-0".
5. See Index No. 422 and Index No. 423 for Bars SA, SB & SC and Bullet Railing details. Adjust vertical dimensions of Stirrup Bars SA, SB & SC to 2'-0" for 32" Vertical Shape or 3'-10" for 42" Vertical Shape.
6. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 1'-1".
7. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 1'-1".
8. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.

ESTIMATED QUANTITIES FOR C-I-P COPING

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>CY/LF</td>
<td>0.326</td>
</tr>
<tr>
<td>Reinforcing Steel (Typical) excluding Bars SB, SA &amp; SS (Typ.)</td>
<td>LB/LF</td>
<td>35.03</td>
</tr>
<tr>
<td>Additional Rein. @ Expansion Joints (Steel Dowels)</td>
<td>LB</td>
<td>32.04</td>
</tr>
</tbody>
</table>

The above concrete quantities are based on a Type D Concrete Curb on a level Retaining Wall (See Note 1).

NOTES:
1. Match roadway curb shape (Type) and height. See Roadway Plans and Index No. 300. 6'-8" dimension is based on a 32" Vertical Shape Traffic Railing with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
2. See Index No. 422 and Index No. 423 for Bars SA, SB & SC and Bullet Railing details. Adjust vertical dimension of Bars SA, SB & SC, see Reinforcing Steel Note 5.
3. If slip forming is used, submit shop drawings for approval showing 3" side cover with the Typical Section dimensions adjusted.