JUNCTION SLAB ADJACENT TO SKewed APPROACH SLAB AND WITH BARRIER WALL INLET

NOTES
1. CONSTRUCTION REQUIREMENTS: Construct the Junction Slab level transversely and expansion joints plum to not construct the junction slab perpendicular to the roadway surface. Slip forming is not permitted.
2. CONCRETE: Use Class II concrete for slightly aggressive environments, use Class IV concrete for moderately or extremely aggressive environments. Concrete will be in accordance with Specification Section 346.
3. REINFORCING STEEL: Provide Grade 60 reinforcing steel in accordance with Specification Section 931. Dowel Load Transfer Devices with ASME A 36 smooth round bar and hot-dip galvanized in accordance with Specification Section 932. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
4. Construct 3/8" Expansion Joints plum and perpendicular to roads and Gutter Line. Provide at 90°-0" minimum intervals as shown.
5. Provide and install Expansion Joint Filler in accordance with Specification Section 932.
6. Construct 3/8" V-Grooves plum and provide at 30°-0" minimum intervals as shown. Space V-Grooves equally between 3/8" Expansion Joints and/or Begin or End Junction Slab. V-Groove locations are to coincide with Gutter locations in the Rolling/Sound Barrier.
7. FILL REQUIREMENTS: Shoulder or Roadway pavement or fill is required on top of the junction slab up to its entire length on the traffic side of the Rolling/Sound Barrier. See Section 8-8 for details.
8. Spacing shown is along the Gutter Line.
9. SECTION TO JUNCTION SLAB, BARRIER WALL INLET AND RETAINING WALL

SECTION A-A
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>9'-2&quot;</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>45 SECO.</td>
</tr>
</tbody>
</table>
| VC   | 5    | 8'-3"
| Ie   | 5    | 3'-3"
| S3   | 5    | 7'-4"
| U1   | 5    | 4'-2"
| U2   | 5    | 1'-10"
| DOWEL | 2" Ø Smooth Bar | 2'-0" |

DOWEL: 2" Ø Smooth Bar 2'-0"

1" Ø DOWEL

1'-25" |

BAR 55.3

BAR 5L

BAR 5U1

BAR 5U2

9'-655"

8'-0"

1'-665"

Gutter Line

Shoulder or Riding Surface

Variates (6", Min. 16" Max.)

(See Note 2)

Shoe Pavement

Slope Varies (See Note 2)

Top of Junction Slab (Const. Joint Req’d)

8'-0" Traffic Railing/Sound Barrier

Bars 5A @ 5" sp. (See Note 4)

Bars 5B (Typ.)

Bars 5L @ 6" sp. (See Note 4)

Bars 5U1 @ 6" sp. (See Note 4)

Bars 5U2 @ 6" sp. (See Note 4)

1/2" (1" Ø Dowel Ln) Transfer Devices at expansion joints (Typ.)

Expanded Polystyrene shown hatched (3" top & 3/4" each side)

Bottom of Junction Slab (Level Transversely)

4" Cover (Top & Sides)

2" Cover (Bottom)

1" Ø DOWEL

Spacing 1" @ 6" 7 sp. @ 1'-0" = 7'-0"

1" Ø DOWEL

Spacing 1" @ 6" 9 sp. @ 1'-0" = 9'-0"

BARS 5A, 5B & 5C

SECTION B-B

TYPICAL SECTION THRU JUNCTION SLAB AND RETAINING WALL

5A 9'-2"

5B Length as Required

5C 8'-3"

DETAIL "A"

(Showing Locations of 1/2" Y-Grooves and 3/4" Preformed Expansion Joint Fillers)

Top of Junction Slab (Const. Joint Req’d)

8'-0" Traffic Railing/Sound Barrier

Bars 5L6 (Field Bent)

Bars 5V (Noted)

Coping

Junction Slab

End Shirrup Bar 5V

Estimation Junction Slab Quantities

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete (Junction Slab)</td>
<td>CF/FT</td>
<td>6.470</td>
</tr>
<tr>
<td>Reinforcing Steel (Typical)</td>
<td>LB/FT</td>
<td>67.97</td>
</tr>
<tr>
<td>Additional Reinforcement Expansion Joint</td>
<td>L8.</td>
<td>42.72</td>
</tr>
</tbody>
</table>

(Total concrete quantities are based on a super elevation of 6.25%).

NOTES:
1. Match Cross Slope of Travel Lane or Shoulder.
2. The minimum dimension of 6" corresponds to a super elevation of 6.25%. For super elevations exceeding 6.25", increase this dimension as required to match roadway super elevation.
3. Actual location & width may vary depending on type of Retaining Wall used.
4. For Index No. 5210 for Bars 5V and 55L.

CROSS REFERENCE:
For location of Section B-B, see Sheet 1.

2008 FDOT Design Standards

TRAFFIC RAILING/SOUND BARRIER (8'-0")

JUNCTION SLAB

Typically 5212

Sheet No. 2 of 2