## CONCRETE AND REINFORCEMENT BARS

<table>
<thead>
<tr>
<th>Description</th>
<th>TOLLWAY</th>
<th>IDOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Mix Bridge Deck &amp; End Beam Diaphragms</td>
<td>f’c=4,000 psi</td>
<td>f’c=3,500 psi (Entire Bridge)</td>
</tr>
<tr>
<td>Parapets, Approach Slabs, Barrier Walls</td>
<td>f’c=4,000 psi (Class BS)</td>
<td></td>
</tr>
<tr>
<td>Substructure Elements &amp; Crash Walls</td>
<td>f’c=3,500 psi (Class SI)</td>
<td></td>
</tr>
<tr>
<td>Stainless Steel Rebar Deck, Parapets &amp; End Beam Diaphragms</td>
<td>f’y=60,000 psi</td>
<td></td>
</tr>
<tr>
<td>Epoxy Coated Rebar Bridge Substructure &amp; Approach Slabs</td>
<td>f’y=60,000 psi</td>
<td>f’y=60,000 psi (Entire Bridge)</td>
</tr>
</tbody>
</table>
Article 10.3
Abutment Types

Abutment Type for Bridge Replacement

Integral Abutment With MSE Wall
Preferred Abutment Type For Bridge Replacement & Widening

Semi-Integral Abutment
Article 19.2.1
Integral and Semi-Integral Abutments

CONSTRUCTION JOINT (MANDATORY)

TOOLED EDGES OR 3/8"x3"
SAW CUT, FILLED WITH
HOT POUR Low
MODULUS POLYMER
SEALANT

SUPER STRUCTURE
30'-0" APPROACH SLAB

70'-0" TRANSITION SLAB

END DIAPHRAGM

BACK OF ABUTMENT

1/8" NEOPRENE SHEET

TOLLWAY APPROACH SLAB
(INTEGRAL ABUTMENT SHOWN)
(SEMI-INTEGRAL ABUTMENT SIMILAR)
Article 19.5
Approach Slab and Pile Bent Pay Items

SECTION D-D
FOR INTEGRAL & SEMI-INTEGRAL ABUTMENT

1/8” Neoprene Sheet
SECTION 19.0 APPROACH SLABS (PAVEMENT)

Pay Items
- Bridge Approach Slab: SQ YD
- Protective Coat: SQ YD
- Bridge Deck Grooving: SQ YD
- Concrete Barrier: CU YD
- Reinforcing Bars: LB

30’ Main Approach Slab
SECTION 19.0 APPROACH SLABS (PAVEMENT)

Pay Item
Transition Approach Slab: SQ YD
Protective Coat: SQ YD
Reinforcing Bars: LB

70’ Transition Approach Slab
Structure Design Manual - PPC Beams


All Bridge Designers (ABD) Memorandum 12.2, Dated 4/16/2012.
All Bridge Designers (ABD) Memorandum 12.4, Dated 8/17/2012.
All Form Material Shall Be Removed From Open joint
All Form Material Shall Be Removed From Open joint

** The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

*** Full width along joint - backer rod not required.

- #5 b(E) bars at 12” cts.
- #6 b1(E) bars at 12” cts. over pliers
- b2(E) bars between beams

See Fig. 3.2.4-2

Concrete Superstructure. At Piers & 0.6 \( \left( \frac{D_1+D_2}{2} \right) \)

Joint shall be sealed with Silicone Joint Sealer.

See Detail "A" in Fig. 3.2.7-1
Article 10.6
Bridge Seats
Snow Storage Area

F SHAPE MOMENT SLAB WITH MSE WALL ACCOMODATING SNOW STORAGE

March, 2013

Figure 22.X.X.2

Illinois Tollway

Single slope retaining wall adjacent to snow storage area

Figure 22.X.X.1
Questions?

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