PARTIAL PLAN - APPROACH TRANSITION

Limits of Payment for Three-Beam Panels on Bridge

End Span

Limit of Payment for Temporary Guardrail

Approach Span

Traffic Railing - Class B (10 Gauge)

Three-Beam Panels

Begin or End Detour Bridge

Grade Beam

Two 12'-6" - Class A (12 Gauge) Three-Beam Panels

Grade Beam

Bearing

Three-Beam Guardrail Panels (Nested)

Transition Block

B - 3'-11½" Spacing

Three-Beam Transition

5'-0" Post Spacing

Grade Beam

PARTIAL ELEVATION - APPROACH TRANSITION

THREE-BEAM GUARDRAIL APPROACH TRANSITION
DESCRIPTION:

TEMPORARY DETOUR BRIDGE

THREE-BEAM GUARDRAIL

LAST REVISION:
07/01/15

REV ISIO N
102-240
2 of 6
**REVISION DESCRIPTION:**

**STANDARD PLANS**

**FY 2020-21**

**TEMPORARY DETOUR BRIDGE**

**THREE-BEAM GUARDRAIL**

**INDEX** 102-240

**SHEET** 3 of 6

**PARTIAL PLAN - APPROACH TRANSITION SHOWN (TRAILING END SIMILAR)**

- **Grade Beam**
- **Roadway Approach**
- **15° Max.**
- **2'-6"**
- **5'-0"**
- **Approach Span**
- **End Span**
- **Backwall Bent**
- **End Bent**
- **Steel Grid Deck**
- **Offset Block**
- **Approach Roadway**
- **PARTIAL ELEVATION - APPROACH TRANSITION SHOWN (TRAILING END SIMILAR)**

**KEY:**

- Staked
- Not Staked

**LIMITS OF PAYMENT FOR**

- Three-Beam Panels on Bridge
- Traffic Railing - Class B
- Two 12'-6" - Class A (12 Gauge)
- (10 Gauge) Three-Beam Panels
- (Nested) Three-Beam Guardrail Panels
- Type K Barrier Unit
- Freestanding Type K Barrier Units

**NOTES:**

- See Index 102-110

**TERMINAL CONNECTOR (TYP.)**

**STAKES (TYP.)**

(See Index 102-110 for details)
Thrie-Beam Panel Connection Spacing

Thrie-Beam Guardrail

Typical Intermediate Bent

Top of Steel Grid Deck

2'-1"

2'-6"

Begin or End Detour Bridge

10'-0"

10'-0"

Span

Approach

Intermediate Spans

End Span

Traffic Railing - Class B (10 Gauge) Thrie-Beam Panels

10'-0"  $02$ Spacing (Typ.)

$01$

$02$

$02$

$02$

$02$

10'-0" ℅02 Spacing (Typ.)

$01$

$01$

$01$

$02$

10'-0"

10'-0"

Varies

Top of Steel Grid Deck

2'-1"

11'-0"

4'

6'

$\frac{3}{8}''$ x $\frac{3}{16}''$ Bolt Slots (Typ.)

$\frac{3}{8}''$ x $\frac{3}{16}''$ Splice Bolt Slots (Typ.)

Field Drill

PARTIAL ELEVATION SHOWING TYPICAL THRIE-BEAM PANEL ARRANGEMENT

PARTIAL ELEVATION SHOWING THRIE-BEAM PANELS AT EXPANSION JOINT

THRIE-BEAM EXPANSION PANEL DETAIL

\(11'-0\frac{1}{2}''\)
PLAN VIEW OF TRANSITION BLOCK
(GUARDRAIL NOT SHOWN FOR CLARITY)

ELEVATION OF TRANSITION BLOCK
(GUARDRAIL AND POSTS NOT SHOWN FOR CLARITY)

ESTIMATED QUANTITIES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>Concrete Class NS</td>
<td>CF</td>
<td>3.4</td>
</tr>
<tr>
<td>reinforcing steel</td>
<td>LB</td>
<td>61</td>
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<tr>
<td>Guardrail (reset)</td>
<td>LF</td>
<td>12.5</td>
</tr>
</tbody>
</table>

NOTES:

REINFORCING STEEL: Reinforcing steel shall be ASTM A615, Grade 60.

ANCHOR RODS: Steel Anchor Rods shall be ASTM A36, ASTM A709 Grade 36 or ASTM A615 Grade 60 hot-dip galvanized in accordance with Specification Section H62.