TYPICAL TREATMENT OF RAILING ALONG BRIDGE

PARTIAL ELEVATION OF INSIDE FACE OF RAILING
(Existing Traffic Railing not shown for clarity)

PARTIAL PLAN OF RAILING

Front Face of Three-Beam Guardrail

Direction of Traffic

Existing Bridge Deck

Gutter Line

Existing Bridge Deck

Existing Traffic Railing

(Type Varies)

Intermediate Deck Joint

(Guardrail Post Assembly with Offset Block (Typ.)

NOTE:
1. On approach end provide Index No. 402 (as shown) or other site specific treatment, see Roadway Plans. For treatment of trailing end see Roadway Plans.

2. Actual joint dimension and orientation vary. For Intermediate Deck Joints use the Modified Post Spacing at Intermediate Deck Joints Detail, Index No. 470, Sheet 2, as required.

3. Areas where existing structure has been removed shall match adjoining areas and shall be finished flat by grouting or grinding as required. Exposed existing reinforcing steel shall be burned off 1" below existing concrete and grouted over.

CROSS REFERENCES:
For Section A-A see Sheet 2.
For Traffic Railing Notes and Details see Index No. 470.
**SECTION A-A**

**TYPICAL SECTION THRU RAILING ON BRIDGE DECK**

- **BAR BENDING DIAGRAMS**
  - DOWEL BAR 4D
  - DOWEL BAR 4L
  - BAR 4M

**BILL OF REINFORCING STEEL**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>4</td>
<td>3'-7&quot;</td>
</tr>
<tr>
<td>L</td>
<td>4</td>
<td>4'-1&quot;</td>
</tr>
<tr>
<td>M</td>
<td>4</td>
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</table>

- **NOTICE:** All bar dimensions are out to out.

**SECTION B-B**

**TYPICAL SECTION THRU RAILING ALONG APPROACH SLAB**

(SCHEMES 5 AND 6 SHOWN, SCHEMES 3 AND 4 SIMILAR)

- **CROSS REFERENCES:**
  - For location of Section A-A see Sheets 1, 3 & 4.
  - For location of Section B-B see Sheet 6.
  - For location of View C-C see Sheet 3.
  - For application of Dim. A see Post Dimension Table on Index 470, Sheet 3.

**NOTE:** All bar dimensions are out to out.

**TRAFFIC RAILING - (THRIE-BEAM RETROFIT)**

**WIDE STRONG CURB TYPE 1**

**REVISION NO.**

**SHEET NO.**

**INDEX NO.** 472

**DESCRIPTION:**

**FY 2017-18 DESIGN STANDARDS**

**MATCH SHAPE OF EXISTING CURB**

**CONTROL LINE (SCHEMES 5 & 6)**

- **For location of Section A-A see Sheets 1, 3 & 4.**
  - **For location of Section B-B see Sheet 6.**
  - **For location of View C-C see Sheet 3.**
  - **For application of Dim. A see Post Dimension Table on Index 470, Sheet 3.**
SCHEME 1 NOTES:
1. Provide Transition Block (as shown) or Curb if existing Approach Slab does not have a curb. See Roadway Plans for Details of Sidewalk Replacement.

2. Field bend Dowel Bars 4L within Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.

SCHEME 2 NOTES:
1. Provide Transition Block (as shown) or Curb if existing Approach Slab Curb does not extend to end of Approach Slab. Shape and height of Transition Block or Curb shall match existing bridge curb. Transition Block may be omitted on trailing ends with no opposing traffic and on bridges with flared Approach Slab Curb.

2. Field bend or tilt Dowel Bars 40 and Bars 4M within Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.