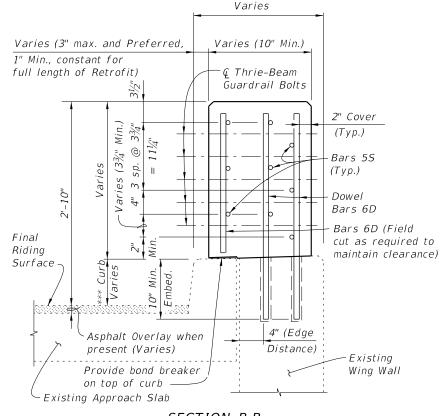


Varies Varies (3" max. and Preferred 10" 1" Min., constant for € Thrie-Beam full length of Retrofit) Guardrail Bolts 2" Cover (Typ.); (3¾" sp. @ Bars 5S (Typ.)Dowel Bars 6D Varies Asphalt Overlay Existing Curb when present Overhang (Varies) Edge ~ ~ Coping Final Riding Distance Surface Embedment - 1'-0" preferred with 2" edge distance, 6" Min. if edge distance is less than 2" Existing Bridge Deck

SECTION A-A TYPICAL SECTION THRU RAILING ON BRIDGE DECK



SECTION B-B TYPICAL SECTION THRU RAILING ON WING WALL

DESCRIPTION:

REVISION

07/01/13

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3. Where existing structure has been removed and not encased in new concrete; match adjoining areas and finish flat by grouting or grinding as required. Exposed existing reinforcing steel not encased

in new concrete shall be burned off 1" below existing concrete and grouted over.

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INTERMEDIATE CURB

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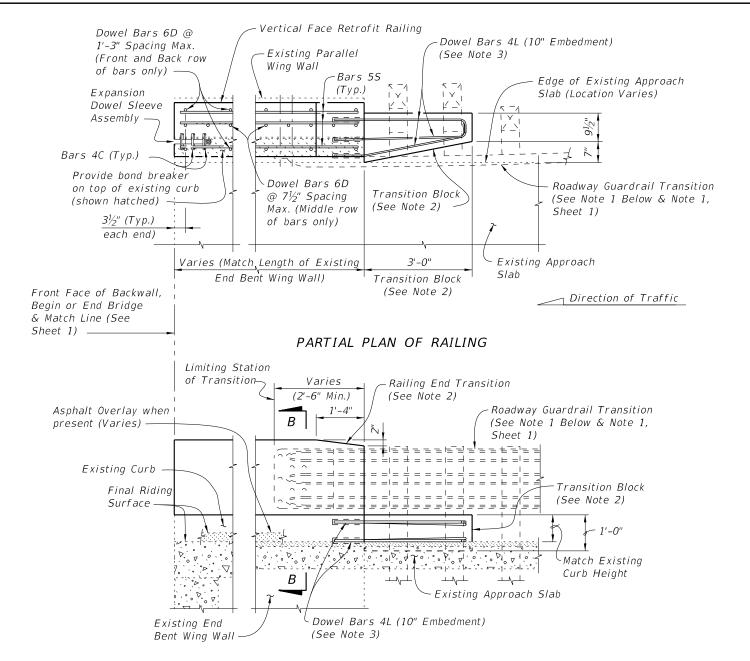
PARTIAL ELEVATION OF INSIDE FACE OF GUARDRAIL

______ SCHEME 1 _____ RAILING END TREATMENT FOR PERPENDICULAR OR ANGLED WING WALLS

clear of Wing Wall

SCHEME 1 NOTES:

- 1. Provide Transition Block (as shown) or Curb if existing Approach Slab does not have a curb, see Roadway Plans. Shape and height of Transition Block or Curb shall match existing bridge curb. Railing End Transition and Transition Block may be omitted on trailing ends with no opposing traffic.
- 2. Field bend Dowel Bars 4L within Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.
- 3. If a Special Steel Guardrail Post is required for attachment to the top of a sloping Wing Wall, saw cut and remove a wedge shaped portion of the sloping Wing Wall as required to provide a level surface for post installation.



PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Railing Reinforcing and Expansion Dowel Assemblies not shown for clarity)

______ SCHEME 2 _____ RAILING END TREATMENT FOR PARALLEL WING WALLS

SCHEME 2 NOTES:

- 1. See Roadway Plans for limiting station of Roadway Guardrail Transition or other site specific treatment. If limiting station of Roadway Guardrail Transition is along the Wing Wall, attach Thrie-Beam Terminal Connector to railing as shown above. If limiting station of Roadway Guardrail Transition is on the bridge, see Sheet 1. On skewed bridges, if the skew along the deck joint extends across the width of the railing, the 2'-6" minimum dimension shall apply to both the front and back face of the railing.
- 2. Provide Transition Block (as shown) or Curb if existing Approach Slab Curb does not extend beyond end of existing End Bent Wing Wall, see Roadway Plans. Shape and height of Transition Block or Curb shall match existing bridge curb. Railing End Transition and Transition Block may be omitted on trailing ends with no opposing traffic.
- 3. Field bend Dowel Bars 4L within Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.

REVISION 07/01/07

DESCRIPTION:

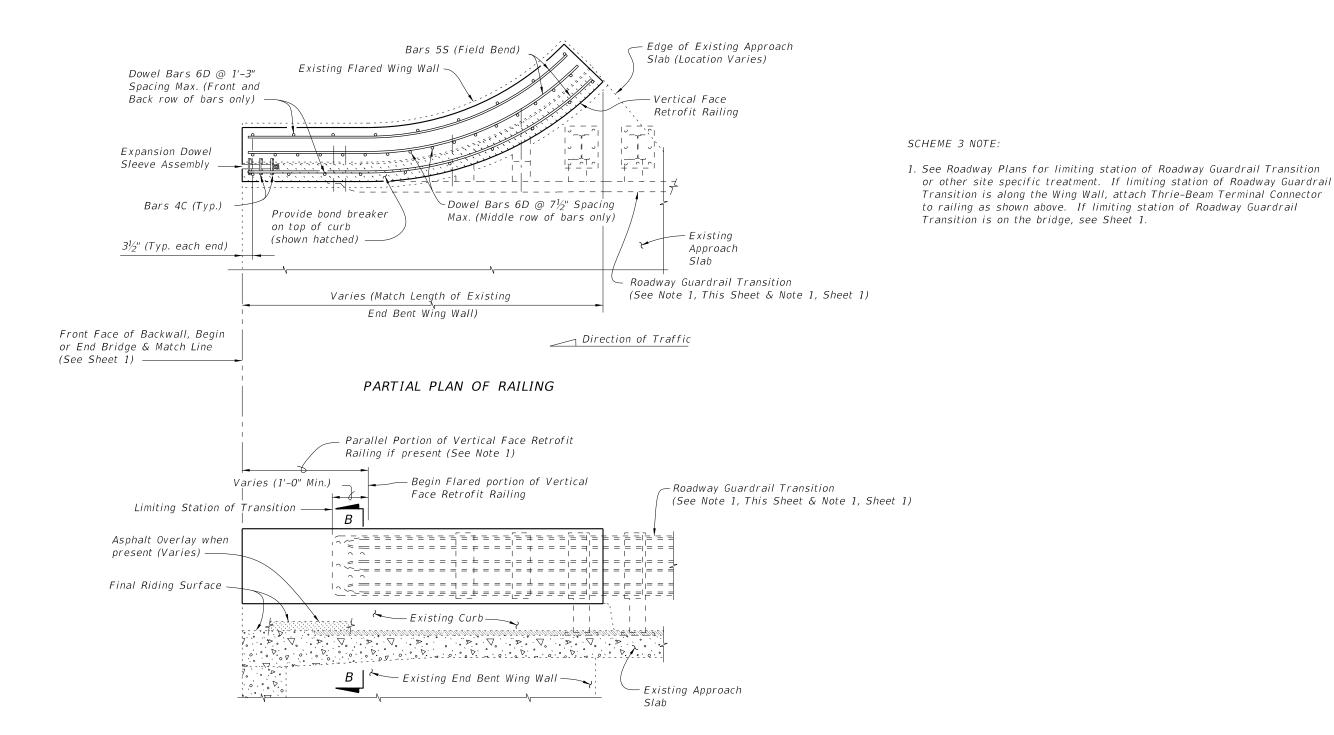


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PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Railing Reinforcing and Expansion Dowel Assemblies not shown for clarity)

> RAILING END TREATMENT FOR FLARED WING WALLS

DESCRIPTION: **REVISION** 07/01/07

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