

**NOTES:**

- THIS GUIDE RAIL TRANSITION IS APPROPRIATE FOR CONNECTION TO A VERTICAL CONCRETE SHAPE.
- FOR RECOMMENDED ATTACHMENT TYPE, REFER TO "BRIDGE ATTACHMENT TYPES", ON THIS SHEET.
- ALL CROSS SLOPES BETWEEN THE PAVEMENT EDGE AND POSTS TO BE 10H:1V OR FLATTER.
- EMBANKMENT MATERIAL CONFORMING TO THE NJDOT STANDARD SPECIFICATIONS SECTION 203 TO EXTEND FLAT BEHIND THE POSTS AT LEAST 2'-0" AT WHICH POINT A SLOPE OF NO STEEPER THAN 2H:1V SHOULD EXTEND A MINIMUM OF 4'-0" FURTHER.
- WHEN RAILING IS INSTALLED ON TOP OF PARAPET, PARAPET END TO BE MODIFIED TO ACCOMMODATE HORIZONTAL RAIL ATTACHMENT TO PARAPET. REFER TO STANDARD RAILING PLATE FOR ATTACHMENT DETAILS.
- AT TYPE (A) ATTACHMENTS, THRIE BEAM RAIL ELEMENT WILL REQUIRE ADDITIONAL POST MOUNTING HOLES FOR POST #1, 3, & 5. HOLES ARE TO BE SHOP PUNCHED OR DRILLED BEFORE GALVANIZATION. NO FIELD DRILLING IS PERMITTED.
- POSTS 1 THROUGH 7 TO BE 7'-2" LONG WITH 4'-10" POST EMBEDMENT. POST 8 TO BE 6'-8" LONG WITH 4'-6" POST EMBEDMENT. POST 9 TO BE 6'-8" LONG WITH 4'-4" POST EMBEDMENT.
- LOCATE CONDUIT AT END OF PYLON SO AS NOT TO INTERFERE WITH GUIDE RAIL POST SPACING.
- LOCATE DRAINAGE INLETS AND ELECTRIC JUNCTION BOXES ON APPROACHES SO AS NOT TO INTERFERE WITH GUIDE RAIL POST SPACING.
- STRUCTURAL STEEL PLATES AND SHAPES TO CONFORM TO AASHTO M270 AND BE GALVANIZED ACCORDING TO AASHTO M111.
- HIGH STRENGTH STEEL BOLTS, NUTS, AND WASHERS TO CONFORM TO AASHTO M164. ZINC COATED BOLTS, NUTS, AND WASHERS TO BE TREATED ACCORDING TO AASHTO M232M.
- THE THICKNESS OF THRIE BEAM, W-BEAM, AND W-THRIE BEAM TRANSITION IS 12-GAUGE.
- FOR ADDITIONAL THRIE BEAM, AND W-BEAM DETAILS REFER TO CD-609-1, CD-609-3, AND CD-609-13.
- CONCRETE LIP CURB TO BE PAID UNDER 9"x16" CONCRETE VERTICAL CURB, SEE CD-607-1.9.
- WHEN THE CONFIGURATION OF BRIDGE ABUTMENTS AND WINGWALLS DO NOT ACCOMMODATE THE INSTALLATION OF POST 1, THE POST MAY BE ATTACHED TO THE ABUTMENT HEADER WITH THE USE OF A BASE PLATE.

GUIDE RAIL ATTACHMENT - NEW CONSTRUCTION (SIDEWALK WITH PARAPET)

NOTE:
REINFORCEMENT STEEL IS IN METRIC UNITS.

BEAM GUIDE RAIL ATTACHMENTS

N.T.S.

CD-609-16

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

CD-609-16.1

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