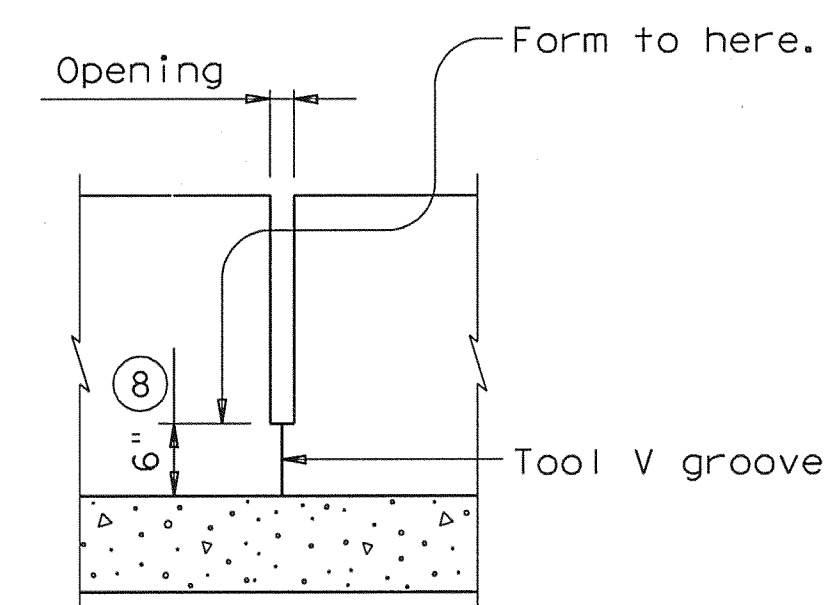
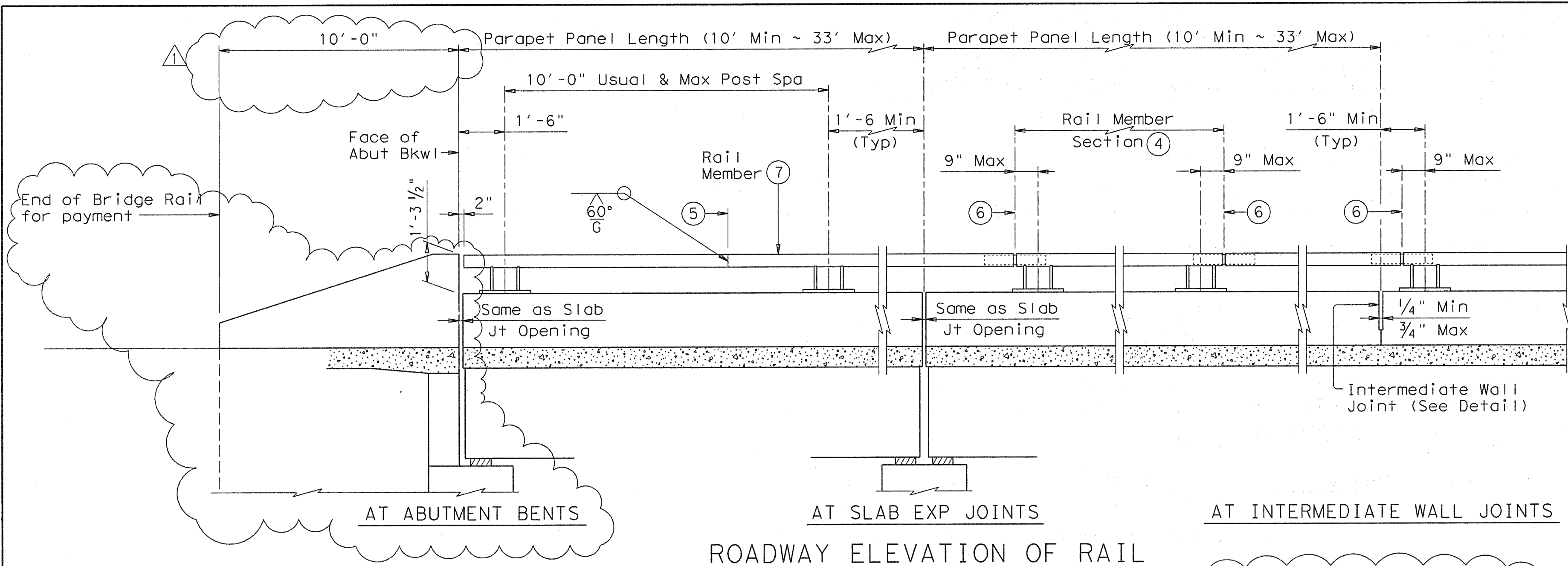


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LEVELS DISPLAYED
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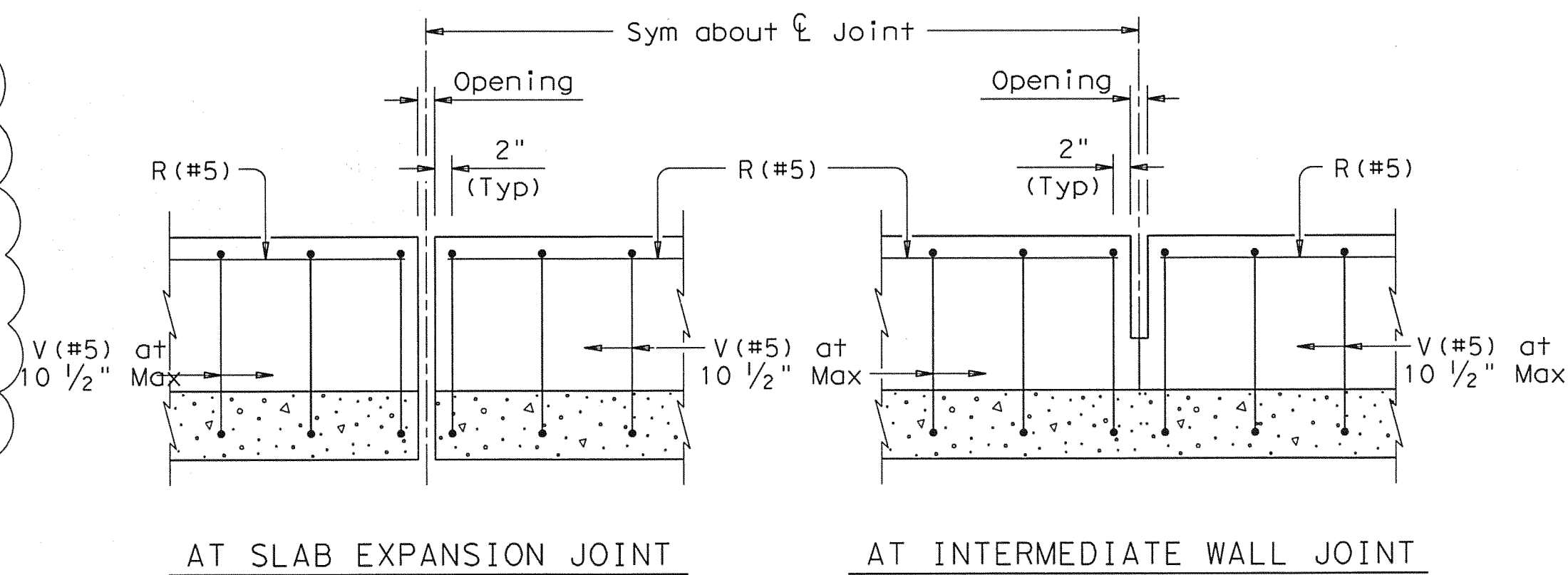
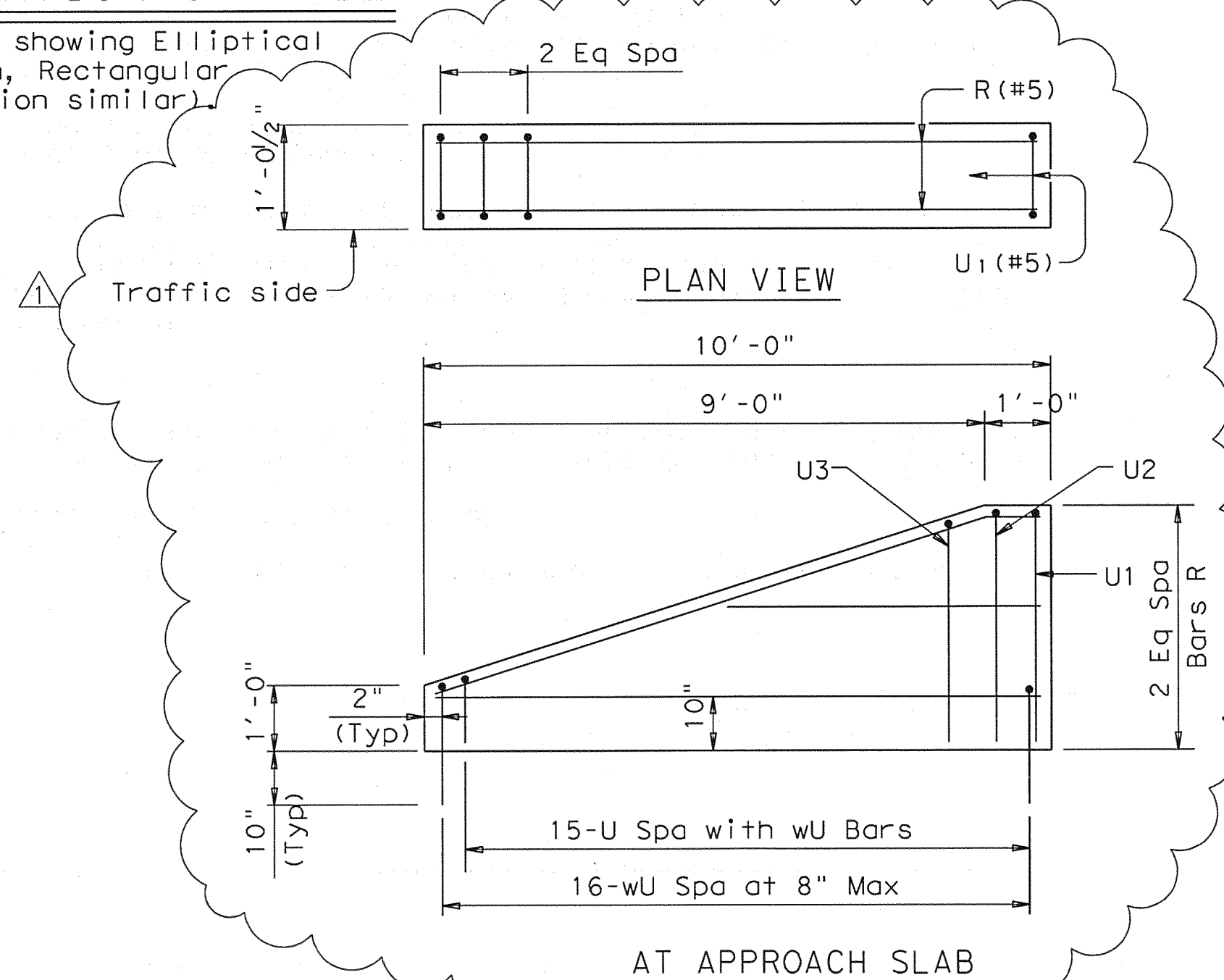


INTERMEDIATE WALL JOINT DETAIL

Note: Provide intermediate wall joints over all slab construction joints, over interior supports on continuous units, and at equal intervals in between as necessary to maintain a 33' maximum length of unbroken wall. Location independent of pipe rail splices.

ROADWAY ELEVATION OF RAIL

(Rail Member showing Elliptical Tube Option, Rectangular Tube Option similar)



ELEVATION SHOWING TYPICAL REINFORCING PLACEMENT

- ① Showing TL-3 Splice location, TL-2 Splice location is 1'-0".
- ② \mathcal{C} Splice ~ Metal Beam Guard Fence Transitions must be attached to the bridge rail and extended along the embankment unless otherwise shown in the plans.
- ③ Terminal Connectors and associated hardware are to be paid for under the Item "Metal Beam Guard Fence".
- ④ Rail member sections must have at least two posts but not more than four.
- ⑤ One shop splice per rail member section is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
- ⑥ \mathcal{C} Exp Jt or Splice Jt as required.
- ⑦ Unless directed otherwise by the Engineer, the fabricator may use the rectangular tube in lieu of the elliptical tube for the rail member.
- ⑧ Increase 2" for structures with overlay.
- ⑨ Bolts must be of sufficient length to extend 1/2" to 3/4" beyond nut.
- ⑩ Bolt recesses are only required when pedestrian sidewalks are adjacent to back of rail.
- ⑪ 4 additional Bars R(#5) 3'-8" in length must be placed inside Bars U(#5) and centered 2'-0" from end of rail when Terminal Connections are required. Field bend as needed.

Modifications ESC 04/29/10

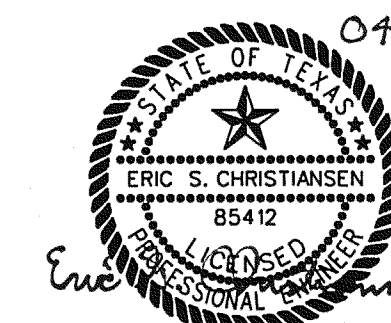
△ Revised End Rail, Eliminate Connections, and modified material notes.

SHEET 1 OF 3

Texas Department of Transportation
Bridge Division

TRAFFIC RAIL

TYPE T401 (MOD)



04-29-10

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