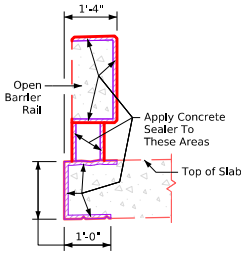
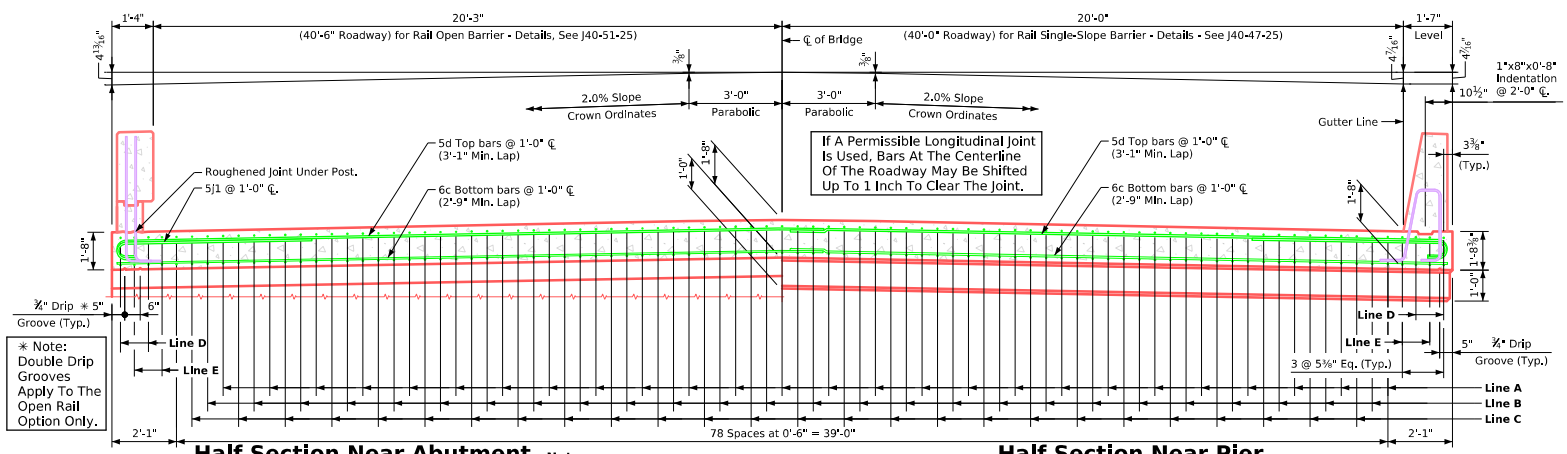


Concrete Sealer Application Limits – Open Rail Section

Apply concrete sealer to:

- The entire top surface, edges, and underside of the bridge slab.
- The top, traffic face, side and bottom surfaces of **all** Open Rail components.
- **All** faces of Open Rail Posts.
- Apply sealer continuously over the full bridge length.
- Sealer application **shall** conform to **Article 2403.03,P.3** of the **Standard Specifications** and **Materials I.M. 491.12.**



Half Section Near Abutment

Slab Cross-Section Area For Open Rail = 71.94 sq. ft.

Note:

Top longitudinal reinforcing steel shall be parallel to and 2¾ inches clear below the top of the slab.

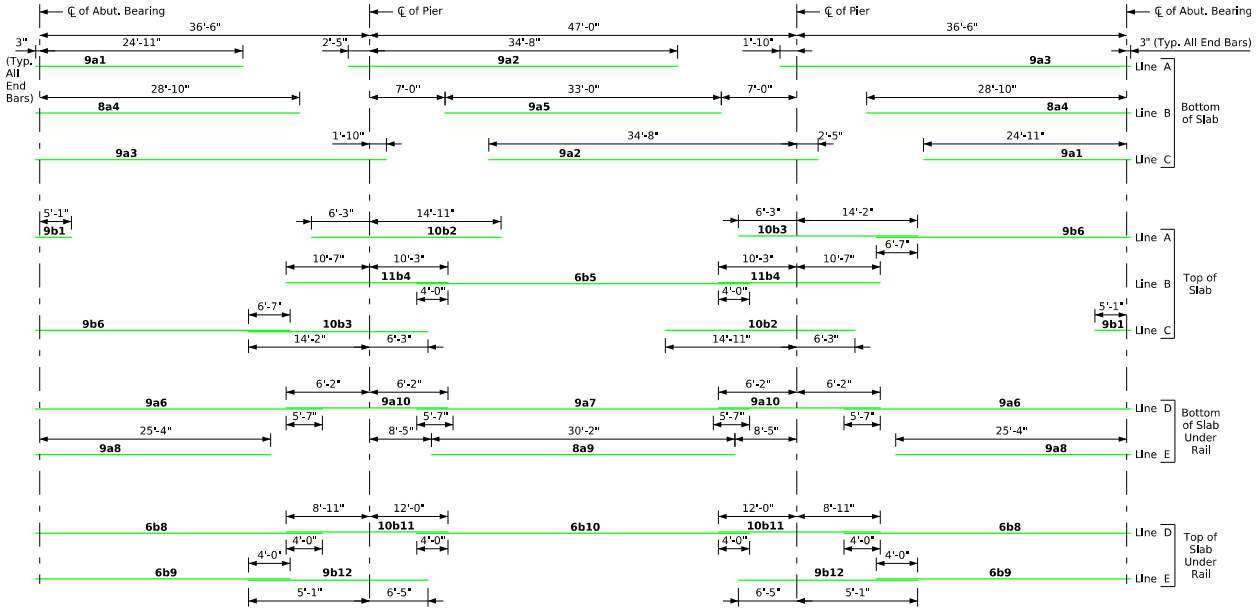
Bottom longitudinal reinforcing steel shall be parallel to and 1½ inches clear above the bottom of the slab.

Reinforcing steel shall be securely wired in place and adequately supported on bar chairs before concrete placement.

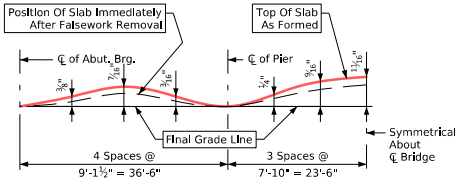
Half Section Near Pier

Slab Cross-Section Area For Single-Slope Barrier Rail = 71.99 sq. ft.

I.M. 451.01 Requirements Shall Apply For Bar Chairs.



120' - Placement for Longitudinal Reinforcement



Form Camber Diagram

This diagram illustrates the form camber required to compensate for the anticipated ultimate dead load deflection. The dimensions shown do not account for form deflection or falsework settlement.

Latest Revision Date

Approved by Bridge Engineer

IOWA DOT

Standard Design-40'-0" Roadway, 3 Span Bridge

Continuous Concrete Slab Bridge

July, 2025

Superstructure Details
120'-0" Bridge

J40-12-25