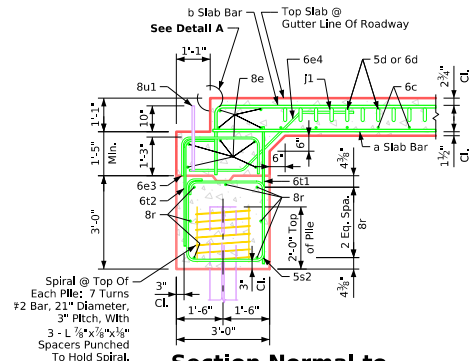


Section Normal to Abutment @ ϕ
(Bridge Lengths 70-110ft)



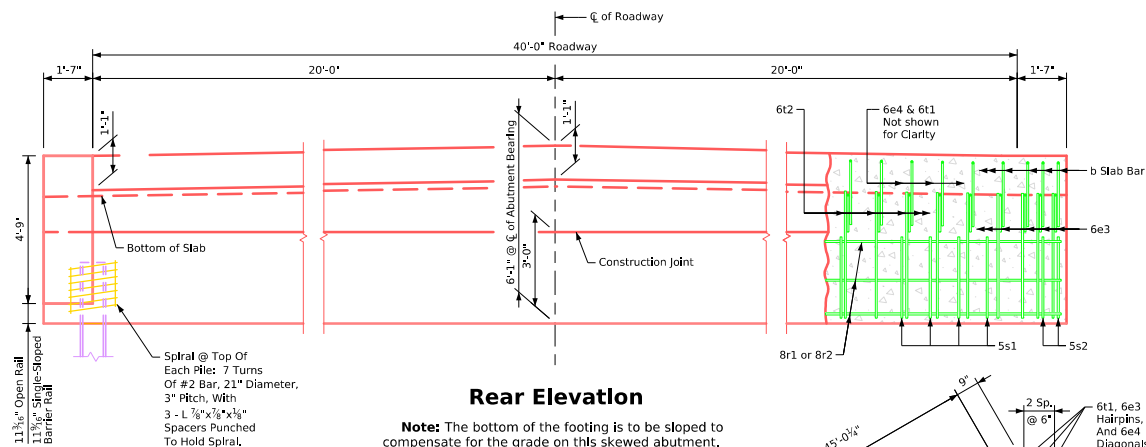
Section Normal to Abutment @ Gutter Line

ABUTMENT NOTES:

All piling are HP 10x42.
The concrete and reinforcing steel for the wings is included with the superstructure.
Details on this sheet are to be used only when abutments are placed on steel piles. If rock is encountered closer than 12'-0" below the abutment footing, special analysis may be required.
The minimum clear distance from the face of the concrete to the nearest reinforcing bar is to be 2 inches unless otherwise noted or shown.
Steel abutment piles shall be driven to full penetration if practicable, but in no case to a bearing value less than shown in the design plans.
All reinforcing steel is to be Grade 60.
Abutment piling was designed for HL-93 loading with an allowance for 20 lbs. per sq. ft. future wearing surface.

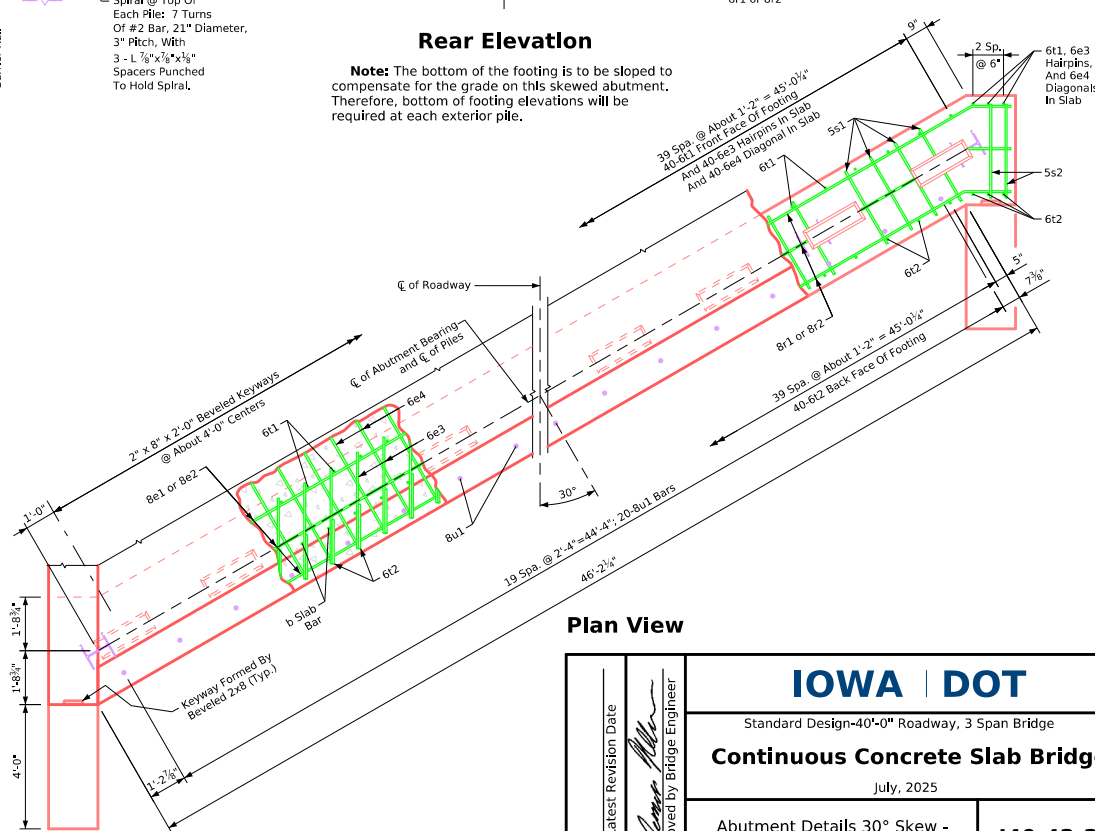
NOTES:

Barrier rails and reinforcement not shown.
Wing reinforcing not shown.
5n1 wing reinforcement shall be placed in the abutment footing before the footing is poured. For additional details, see Sheet **J40-20-25**.
6e3, 6e4, and 8e bars are included in the **Superstructure Quantities** for each individual bridge length.



Rear Elevation

Note: The bottom of the footing is to be sloped to compensate for the grade on this skewed abutment. Therefore, bottom of footing elevations will be required at each exterior pile.



Plan View

Latest Revision Date	Approved By Bridge Engineer	<div data-bbox="1665 1203 1913 1240">IOWA DOT</div> <div data-bbox="1619 1252 1942 1273">Standard Design-40'-0" Roadway, 3 Span Bridge</div> <div data-bbox="1585 1281 1995 1310">Continuous Concrete Slab Bridge</div> <div data-bbox="1745 1317 1827 1336">July, 2025</div> <div data-bbox="1591 1354 1837 1393">Abutment Details 30° Skew - Steel Piling (1 of 2)</div> <div data-bbox="1869 1362 1995 1388">J40-42-25</div>	
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