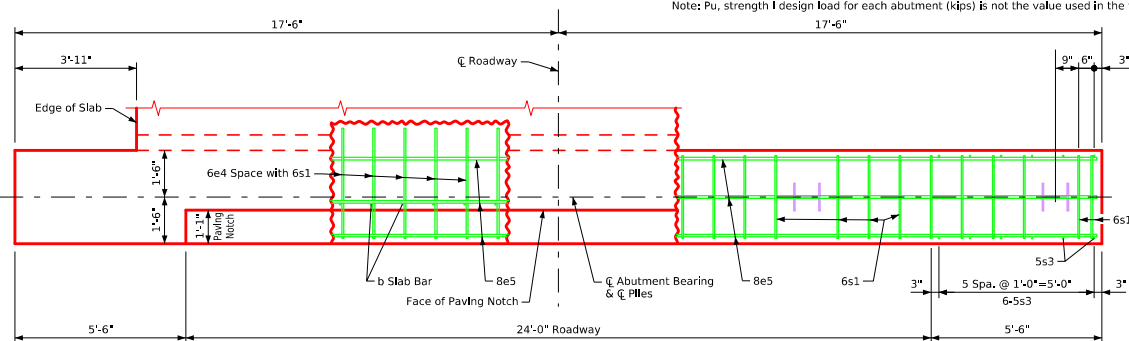


Rear Elevation

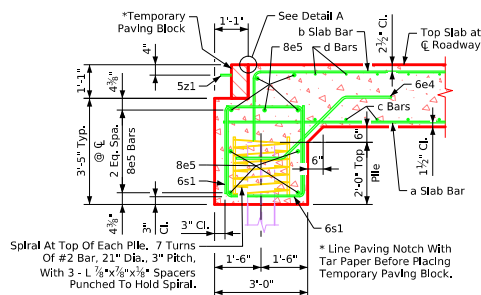
Number of Piles and Abutment Design Loads				
Bridge Length	20'-0"	30'-0"	40'-0"	50'-0"
Number of Piles	5	6	7	8
Pu, strength I design load for each abutment (kips)	458	548	646	763

Note: Pu, strength I design load for each abutment (kips) is not the value used in the field for driving piles.

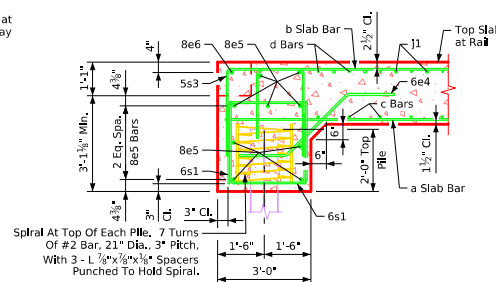


Plan View

Note: Rails Not Shown.



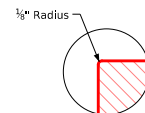
Section Normal to Abutment at CL



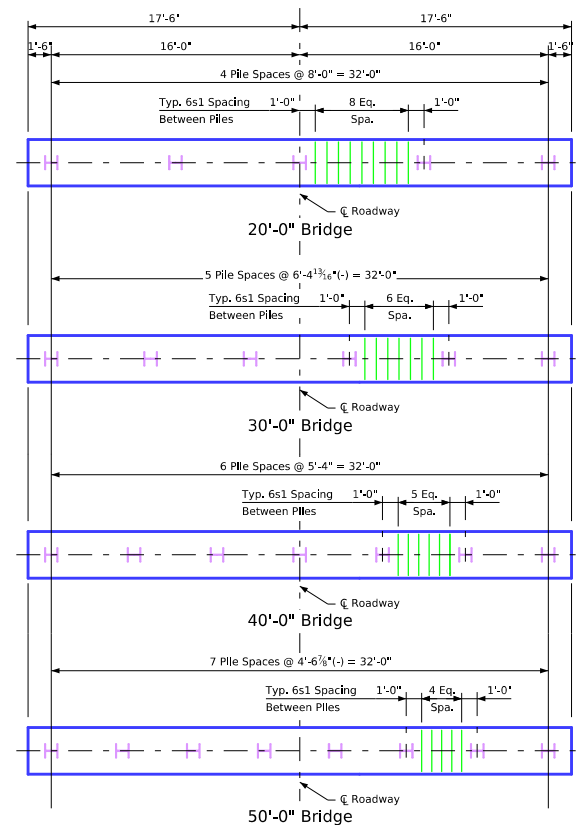
Section Normal to Abutment at Gutterline

Abutment Notes:

All piling HP 10x42.
The minimum clear distance from the face of the concrete to near 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 specified in the design plans.
Abutment piling was designed for HL-93 loading with an allowance for 20 lbs. per sq. ft. future wearing surface.
All reinforcing bars are included with the superstructure quantities.



Detail A



Pile Plan - 0° Skew Steel Piling

Latest Revision Date	IOWA DOT	
	Standard Design - 24'-0" Roadway, Single Span Bridge	
	Single Span Concrete Slab Bridges	
Approved by Bridge Engineer	July, 2025	
	High Abutment Details 0° Skew	J24S-20-25