



**Pile Plan - 30° Skew  
Steel Piling**

Number of Piles and Abutment Design Loads										
Bridge Length	70'-0"	80'-0"	90'-0"	100'-0"	110'-0"	120'-0"	130'-0"	140'-0"	150'-0"	
Piling - Number	7	7	7	7	7	7	8	9	9	
Pu, Strength 1 Design Load - kips	503	536	566	606	644	687	729	Δ852	Δ901	

Δ Includes dynamic load allowance

Note: Pu, Strength 1 Design Load (kips) is not the value used in the field for driving piles.

IOWA   DOT	
Latest Revision Date	Standard Design-40'-0" Roadway, 3 Span Bridge
	Continuous Concrete Slab Bridge
	July, 2025
	Abutment Details 30° Skew - Steel Piling (2 of 2)
J40-43-25	