



**Pile Plan - 0° Skew
Timber 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	10	10	11	11	12	13	13	15	16
Pu, Strength 1 Design Load - kips	483	515	546	585	623	666	708	Δ830	Δ879

Δ Includes dynamic load allowance

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

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