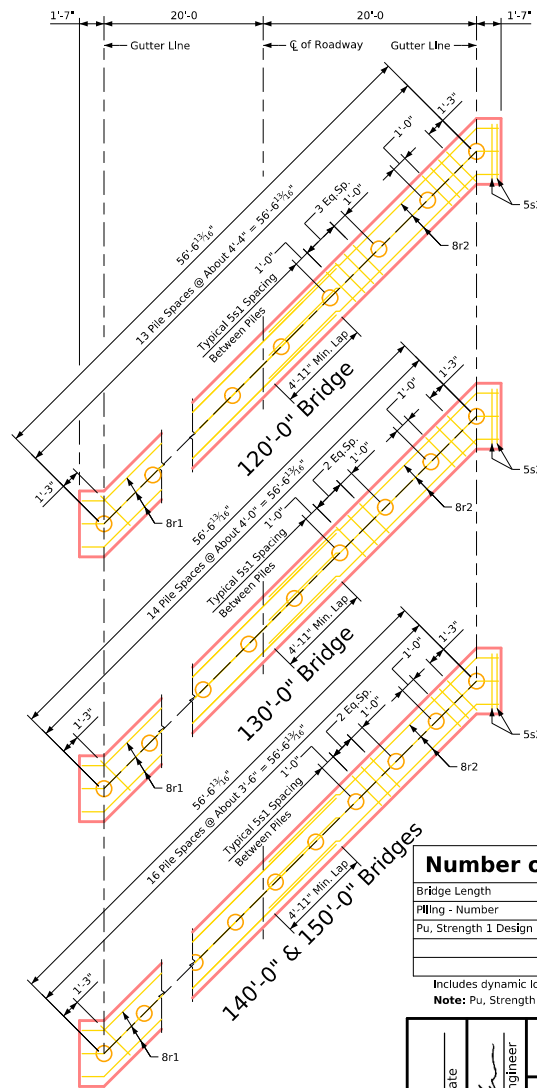
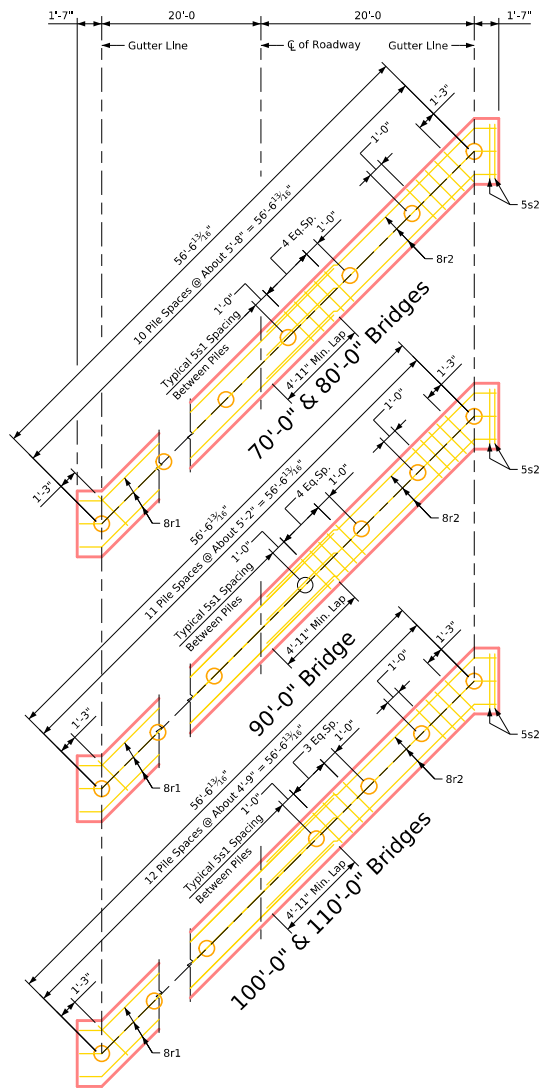




**Pile Plan - 45° Skew
Timber Piling**

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	11	12	13	13	14	15	17	17	
Pu, Strength 1 Design Load - kips	538	570	601	641	679	723	765	Δ888	Δ938

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		IOWA DOT	
		Standard Design-40'-0" Roadway, 3 Span Bridge	
		Continuous Concrete Slab Bridge	
		July, 2025	
		Abutment Details 45° Skew - Timber Piling (2 of 2)	J40-36-25