

Sheet Pile Backwall and Wing Wall Quantities						
Number of Sheet Piles	Per Wing	*N = W / 1.5	Total = 2 x N + 26			
	Backwall	26	10(d) = 2 x N + 20			
Sheet Pile Area		(D1 + D2 + L) x W + 26 x 1.5 x (L - 2)				
Number of Tie Rods		*T = W / S + 1				

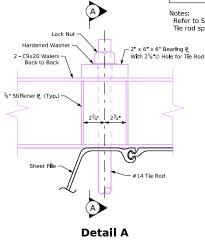
Notes:
All units are in feet.
Wing length "W" is to be calculated by the Engineer based on height from grade to top of berm "H" and wing slope.

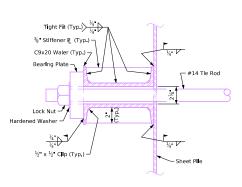
* Number of wing wall sheet piles and tie rods shall be calculated as

shown and rounded up to a whole number. See Sheet J30S-24-25 for "D1" + "D2" values required (minimum

Table of Required Tie Rod Spacing							
Abutment Height "H	6-0	8'-0"	10 0	12 0	14 -0		
Maximum Tie Rod Spacing "S"	9-2	8'-4"	7'-3"	5 -11	4-11		

Refer to Sheet J30S-24-25 for sheet pile height ("H") details.
Tie rod spacing ("S") shall be selected to avoid conflicts with the guardrail posts.





Section A-A

● Top of sheet piling at wings to match top of abutment elevation. For sheet pile cover plate details, see Sheets J30S-24-25 and J30S-25-25. ▲ The guardrail post #15 (open & single slope concrete rails only) may

sheeting and backwall cover plate. See Sheet J30S-25-25 and roadway sheets for post locations.

The Bridge Contractor shall verify clearances for guardrail post installation, and make any necessary adjustments. Post #15 blockout lengths may be fleld adjusted to facilitate guardrall installation.





Standard Design - 30'-0" Roadway, Single Span Bridge

Single Span Concrete Slab Bridges

July, 2025

Steel Sheet Piling Details 0° Skew

J30S-22-25