

PILE DATA TABLE

INSTALLATION CRITERIA								DESIGN CRITERIA							PILE CUT-OFF ELEVATIONS								
PIER or BENT NUMBER	PILE SIZE (In)	NOMINAL BEARING RESISTANCE (tons)	TENSION RESISTANCE (tons)	MINIMUM TIP ELEVATION (ft)	TEST PILE LENGTH (ft)	REQUIRED JET ELEVATION (ft)	REQUIRED PREFORM ELEVATION (ft)	FACTORED DESIGN LOAD (tons)	DOWN DRAG (tons)	TOTAL SCOUR RESISTANCE (tons)	NET SCOUR RESISTANCE (tons)	100-YEAR SCOUR ELEVATION (ft)	LONG TERM SCOUR ELEVATION (ft)	RESISTANCE FACTOR-φ	PILE 1	PILE 2	PILE 3	PILE 4	PILE 5	PILE 6	PILE 7	PILE 8	PILE 9
End Bent No. 1	30	890	0	-65.0	N/A	N/A	N/A	460	166	0	0	N/A	N/A	0.7	23.9	23.2	22.6	21.9	21.3	20.7	20.0	19.3	18.6
Int. Bent No. 2	30	890	0	-74.0	155	-44.0	N/A	625	N/A	0	0	-44.4	N/A	0.7	24.6	23.9	23.2	22.6	22.0	21.3	20.7	20.0	19.3
Int. Bent No. 3	30	890	0	-74.0	N/A	-44.0	N/A	625	N/A	0	0	-44.4	N/A	0.7	24.4	23.7	23.0	22.4	21.8	21.2	20.5	19.8	19.1
Int. Bent No. 4	30	890	0	-74.0	155	-44.0	N/A	625	N/A	0	0	-44.4	N/A	0.7	24.2	23.5	22.8	22.2	21.6	21.0	20.3	19.6	18.9
Int. Bent No. 5	30	890	0	-74.0	145	-44.0	N/A	625	N/A	0	0	-44.4	N/A	0.7	24.0	23.3	22.6	22.0	21.4	20.8	20.1	19.4	18.7
End Bent No. 6	30	890	0	-65.0	N/A	N/A	N/A	460	166	0	0	N/A	N/A	0.7	23.8	23.1	22.4	21.8	21.2	20.6	19.9	19.2	18.5

$$\frac{\text{Factored Design Load} + \text{Net Scour Resistance} + \text{Down Drag}}{\phi} \leq \text{Nominal Bearing Resistance}$$

TENSION RESISTANCE - The ultimate side friction capacity that must be obtained below the 100 year scour elevation to resist pullout of the pile (Specify only when design requires tension capacity).

TOTAL SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the scourable soil.

NET SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the soil from the required preformed or jetting elevation to the scour elevation.

100-YEAR SCOUR ELEVATION - Estimated elevation of scour due to the 100 year storm event.

LONG TERM SCOUR ELEVATION - Estimated elevation of scour used in design for extreme event loading.

PILE INSTALLATION NOTES:

Contractor to verify location of all utilities prior to any pile driving.

Minimum Tip Elevation is required for lateral stability.

When a required jetting elevation is shown, the jet shall be lowered to the elevation and continue to operate at this elevation until the pile driving is completed. If jetting or preforming elevations differ from those shown on the table, the Engineer shall be responsible for determination of the required driving resistance.

No jetting will be allowed without the approval of the Engineer.

The Contractor should not anticipate being allowed to jet piles below the minimum tip elevation.

At each Bent, pile driving is to commence at the center of the Bent and proceed outward.

BRIDGE NO. XXXXXX

REVISIONS						ENGINEER OF RECORD		FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						ABC	MD-YR	XXX	XXXX	123456-1-52-12	PILE DATA TABLE DETAILING MANUAL EXAMPLES	EX-9
						DEF	MD-YR					
						GHI	MD-YR					
						JKL	MD-YR					
						APPROVED BY: MNO		EOR Name, P.E. Registration/P.E. No. 000000 Engineering Co. Name/Logo Address Certificate of Authorization No.				

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