SUMMARY OF PILE INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

Factored Resistance per Pile TONS	Pile Cut-Off (Top of Pile) Elevation FT	Estimated Pile Length per Pile FT	Scour Critical Elevation FT	Driven Piles		Predrilling for Piles*			Drilled-In Piles			
				Min Pile Tip (Tip No Higher Than) Elev FT	Required Driving Resistance (RDR)** per Pile TONS	Total Pile Redrives Quantity EACH	Predrilling Length per Pile Lin FT	Predrilling Elevation (Elev Not To Predrill Below) FT	Maximum Predrilling Dia INCHES	Pile Excavation (Bottom of Hole) Elev FT	Pile Exc Not In Soil per Pile Lin FT	Pile Exc In Soil per Pile Lin FT
100	149.01	75			170							
100	149.55	80			170							
250	149.45	95	118	96.0	365	32						
250	149.67	95	118	95.0	375]						
• • •	Resistance per Pile TONS 100 100 250	Resistance per Pile (Top of Pile) TONS Elevation 100 149.01 100 149.55 250 149.45	Resistance per Pile TONS(Top of Pile) Elevation FTPile Length per Pile FT100149.0175100149.5580250149.4595	Resistance per Pile TONS(Top of Pile) Elevation FTPile Length per Pile FTCritical Elevation FT100149.0175100149.5580250149.4595118	Resistance per Pile TONS(Top of Pile) Elevation FTPile Length per Pile FTCritical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FT100149.0175	Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher FTRequired Driving Resistance (RDR)** per Pile TONS100149.0175100170100149.558011896.0365	Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FTRequired Driving Resistance 	Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FTRequired Driving Resistance (RDR)** per Pile TONSTotal Pile Redrives Quantity EACHPredrilling Length per Pile Lin FT100149.0175100170100149.558011896.036532	Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FTRequired Driving Resistance (RDR)** per Pile TONSTotal Pile Redrives Quantity EACHPredrilling Length per Pile Lin FTPredrilling Elevation (Elev Not To Predrill Below) FT100149.0175	Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FTRequired Driving Resistance (RDR)** per Pile TONSTotal Pile Redrives Quantity EACHPredrilling Length per Pile Lin FTMaximum Predrilling Elevation (Elev Not To Predrill Below) FTMaximum Predrilling Dia INCHES100149.0175-170100149.5580-170250149.459511896.036532	Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FTRequired Driving Resistance (RDR)** per Pile TONSTotal Pile Redrives Quantity EACHPredrilling Predrilling Length per Pile Lin FTMaximum Predrilling Elevation (Elev Not To Predrill Below) TONSPredrilling Length per Pile Lin FTMaximum Predrilling Length per Pile Lin FTPredrilling Length per Pile Lin FTMaximum Predrilling Length per Pile Lin FTMaximum Predrilling Length per Pile Lin FTPredrilling Length per Pile Lin FTMaximum Predrilling Length per Pile Length per Pile Lin FTPredrilling Length per Pile Length per Pile Lin FTPredrilling Length per Pile Length per Pile Lin FTMaximum Predrilling Length per Pile Lin FTPredrilling Length per Pile Lin FTMaximum Predrilling Length per Pile Length Scourt Hole) Elev FT100149.017511896.036532 </td <td>Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FTRequired Driving Resistance (RDR)** per Pile Than) Elev FTTotal Pile Reguired Driving Resistance (RDR)** per Pile Lin FTPredrilling Length per Pile Lin FTMaximum Predrilling Length per Pile Lin FTPile Elevation (Elev Not To Predrill Below) TONSMaximum Predrilling Length per Pile Lin FTPile Elevation (Elev Not To Predrill Below) FTMaximum Maximum Predrilling Dia INCHESPile Excavation (Bottom of Hole) Elev FTPile Excavation (Bottom of FTPile Excavation (Bottom of FT100149.0580-17032250149.45</td>	Factored Resistance per Pile TONSPile Cut-Off (Top of Pile) Elevation FTEstimated Pile Length per Pile FTScour Critical Elevation FTMin Pile Tip (Tip No Higher Than) Elev FTRequired Driving Resistance (RDR)** per Pile Than) Elev FTTotal Pile Reguired Driving Resistance (RDR)** per Pile Lin FTPredrilling Length per Pile Lin FTMaximum Predrilling Length per Pile Lin FTPile Elevation (Elev Not To Predrill Below) TONSMaximum Predrilling Length per Pile Lin FTPile Elevation (Elev Not To Predrill Below) FTMaximum Maximum Predrilling Dia INCHESPile Excavation (Bottom of Hole) Elev FTPile Excavation (Bottom of FTPile Excavation (Bottom of FT100149.0580-17032250149.45

*Predrilling for Piles is required for end bents/bents with a predrilling length and at the Contractor's option for end bents/bents with predrilling information but no predrilling length. $= \frac{Factored \,Resistance + \,Factored \,Downdrag \,Load + Factored \,Dead \,Load}{Factored \,Resistance} + Nominal \,Downdrag \,Resistance + \frac{Nominal \,Scour \,Resistance \,Factored \,Resistance \,Resistance \,Factored \,Resistance \,Resistanc$ Nominal Scour Resistance ***RDR* =

PILE DESIGN INFORMATION

(Blank entries indicate item is not applicable to structure)

End Bent/ Bent No, Pile(s) #-# (e.g., "Bent 1, Piles 1-5")	Factored Axial Load per Pile TONS	Factored Downdrag Load per Pile TONS	Factored Dead Load* per Pile TONS	Dynamic Resistance Factor	Nominal Downdrag Resistance per Pile TONS	Nominal Scour Resistance per Pile TONS	Scour Resistance Factor (Default = 1.00)
End Bent 1, Piles 1-17	100			0.60			
End Bent 2, Piles 1-17	100			0.60			
Bent 1, Piles 1-15	250			0.75		27	1.00
Bent 2, Piles 1-15	250			0.75		40	1.00

*Factored Dead Load is factored weight of pile above the ground line.

NOTES:

1. The Pile Foundation Tables are based on the bridge substructure design and foundation recommendations sealed by a North Carolina Professional Engineer (Stephen C. Crockett, 048207) on 12/16/21. 2. Total Pile Driving Equipment Setup quantity (not shown in Pile Foundation Tables) equals the number of driven piles, i.e., the number of piles with a Required Driving Resistance.

3. The Engineer will determine the need for PDA Testing when PDAs may be required.

	Pile Driving Analyz	Pile Order Lengths			
End Bent/ Bent No	PDA Testing Required? YES or MAYBE	PDA Test Pile Length FT	Total PDA Testing Quantity EACH	End Bent/ Bent No(s)	Pile Order Length Basis* EST or PDA
End Bent 1	MAYBE	80			
End Bent 2	MAYBE	85	2		
Bent 1	YES	100	3		
Bent 2	YES	100			

*EST = Pile order lengths from estimated pile lengths; PDA = Pile order lengths based on PDA testing. For groups of end bents/bents with pile order lengths based on PDA testing, the first end bent/bent no. listed for each group is the representative end bent/bent with the PDA.

SUMMARY OF PDA/PILE ORDER LENGTHS

(Blank entries indicate item is not applicable to structure)

PROJECT	N
	IN

ROBESON

I-5987B

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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH PILE SEAL 019661 FOUNDATION TABLES 4/24/2022 Kevin Austin B35765NATTURE DATE SHEET NO. REVISIONS S5-4 DOCUMENT NOT CONSIDERED NO. BY: DATE: NO. BY: DATE: TOTAL FINAL UNLESS ALL 34 SHEETS SIGNATURES COMPLETED 64