### SUMMARY OF PILE INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

Ford Board					Driven Piles		Predrilling for Piles*			Drilled-In Piles			
Pile(s) #-#  (e.g. "Bent 1	Factored Resistance per Pile TONS	Pile Cut-Off (Top of Pile) Elevation FT		Scour Critical Elevation FT	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
End Bent 1, Piles 1-10	110	207.51	40			150							
End Bent 2, Piles 1-10	110	206.51	30			150	]						
							_						
							-						

<sup>\*</sup>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.

### 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 1-10	110			0.75			1.00
End Bent 2, Piles 1-10	110			0.75			1.00

<sup>\*</sup>Factored Dead Load is factored weight of pile above the ground line.

### SUMMARY OF DRILLED PIER INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

End Bent/ Bent No, Pier(s) #-# (e.g., "Bent 1, Piers 1-3")	Factored Resistance per Pier TONS	Minimum Pier Tip (Tip No Higher Than) Elevation FT	Required Tip Resistance per Pier TSF	Scour Critical Elevation FT	Minimum Drilled Pier Penetration Into Rock per Pier Lin FT	Drilled Pier Length per Pier Lin FT	Drilled Pier Length Not In Soil per Pier Lin FT	Drilled Pier Length In Soil per Pier Lin FT	Permanent Steel Casing Required? YES or MAYBE	Permanent Steel Casing Tip Elevation (Elev Not To Extend Casing Below) FT	Permanent Steel Casing Length* per Pier Lin FT
Bent 1, Piers 1-3	675	145.0	25	180	0.0	55.0	7.0	48.0			
Bent 2, Piers 1-3	675	155.0	20	181	0.0	44.0	11.0	33.0			

<sup>\*</sup>Permanent Steel Casing Length equals the difference between the ground line or top of drilled pier elevation, whichever is higher, and the permanent casing tip elevation.

### SUMMARY OF PDA/PILE ORDER LENGTHS

(Blank entries indicate item is not applicable to structure)

Pi	le 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, Piles 1-10	MAYBE	45			
End Bent 2, Piles 1-10	YES	35			
			2		

\*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 PILE ACCESSORIES

(Blank entries indicate item is not applicable to structure)

Find Bout!	Dina Dila	S			
End Bent/ Bent No, Pile(s) #-# (e.g., "Bent 1, Piles 1-5")	Pipe Pile Plates Required? YES or MAYBE	Pipe Pile Cutting Shoes Required? YES	Pipe Pile Conical Points Required? YES	Conical Points Required?  VES	
End Bent 1, Piles 1-10				YES	
End Bent 2, Piles 1-10				YES	
TOTAL QTY:				20	

### SUMMARY OF DRILLED PIER TESTING

(Blank entries indicate item is not applicable to structure)

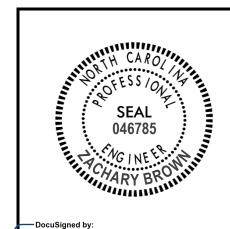
End Bent/ Bent No, Pier(s) #-# (e.g., "Bent 1, Piers 1-3")	Standard Penetration Test (SPT) Required? YES or MAYBE	Crosshole Sonic Logging (CSL) Required?* YES or MAYBE	Total CSL Tube Length (For All Tubes) per Pier Lin FT	Shaft Inspection Device (SID) Required? YES or MAYBE	Pile Integrity Test (PIT) Required? MAYBE
Bent 1, Piers 1-3	YES	MAYBE	226	YES	
Bent 2, Piers 1-3	YES	MAYBE	182	YES	
TOTAL QTY:		3	1224	6	

\*CSL Tubes are required if CSL Testing is or may be required. The number of CSL Tubes per drilled pier is equal to one tube per foot of design pier diameter with at least 4 tubes per pier. The length of each CSL Tube is equal to the drilled pier length plus 1.5 ft.

PROJECT N	O	B-5318	
	WAKE		_COUNTY
STATION:		19+73	

## NOTES:

- 1. The Pile and Drilled Pier Foundation Tables are based on the bridge substructure design and foundation recommendations sealed by a North Carolina Professional Engineer (Jacob Wessell, P.E., NC PE 030395) on 08-10-
- 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 CSL Testing when these items may be required.



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PILE AND DRILLED PIER FOUNDATION **TABLES** 

Eachary	•	10/26/2	)2
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Eachary Brown	10/26/2	022						
	DATE			SHEET NO. S-3				
DOCUMENT NOT CONSIDERED			BY:	DATE:	NO.	BY:	DATE:	TOTAL
FINAL UNLE	SS ALL	1			3			SHEETS
SIGNATURES C	OMPLETED	2			4			41

 $<sup>^{**}</sup>RDR = \frac{Factored\ Resistance +\ Factored\ Downdrag\ Load +\ Factored\ Dead\ Load}{Downdrag\ Resistance\ Factor} + Nominal\ Downdrag\ Resistance\ + \frac{Nominal\ Scour\ Resistance\ Factor}{Scour\ Resistance\ Factor}$ Nominal Scour Resistance