## SUMMARY OF PILE INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

Fred Pourt					Driven Piles			Predrilling for Piles*			Drilled-In Piles		
End Bent/ Bent No, Pile(s) #-# (e.g., "Bent 1, Piles 1-5")	Factored Resistance per Pile TONS	Pile Cut-Off (Top of Pile) Elevation FT	Estimated Pile Lenth per Pile 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	125	806.96	50			210							
END BENT 2, Piles 1-10	125	803.21	30			210	1 0						
						·							

<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	123.5			0.60			1.00
END BENT 2, Piles 1-10	123.5			0.60			1.00
							1.00
							1.00
							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	605	760.0	30			27.0	10.0	17.0			

<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)

Driving Analyze	Pile Order Lengths			
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
MAYBE	55	1		
MAYBE	35	ı		
	PDA Testing Required? YES or MAYBE	Testing Required? YES or MAYBE  MAYBE  PDA Test Pile Length FT  S5	PDA Testing Required? YES or MAYBE  PDA Test Pile Length FT  Cuantity EACH  Total PDA Testing Quantity EACH	PDA Testing Required? YES or MAYBE  PDA Test Pile Length Length FT  Total PDA Testing PDA Testing Quantity EACH  Testing Quantity EACH  End Bent/ Bent No(s)

<sup>\*</sup>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)

End Boot	Disc Dile	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	H-Pile Points Required? YES	Steel Pile Tips Required? YES	
END BENT 1 Piles 1-10						
END BENT 2, Piles 1-10				YES		
TOTAL QTY:				10		

# 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	108	NO	NO
TOTAL QTY:	3		324		

<sup>\*</sup>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.

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## 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 (Robert Lawrence, PE 054066) on 08-15-2022.
- 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, Permanent Steel Casing, SPTs, CSL Testing, SID Inspections and PITs when these items may be required.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PILE AND DRILLED PIER **FOUNDATION TABLES** Francesca B79DADB65D584E REVISIONS S-03 DOCUMENT NOT CONSIDERED TOTAL FINAL UNLESS ALL SIGNATURES COMPLETED SHEETS

Nominal Scour Resistance Dynamic Resistance Factor