SUMMARY OF PILE INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

End Bratt					Driven Piles				Predrilling for Piles*	redrilling 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	560.4	35			210							
End Bent 2, Piles 1-11	115	563.2	25			195							

*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.

 ${}^{**}RDR = \frac{Factored \ Resistance + \ Factored \ Downdrag \ Load + Factored \ Dead \ Load}{Dynamic \ Resistance \ Factor} + Nominal \ Downdrag \ Resistance \ + \frac{Nominal \ Scour \ Resistance \ Factored \ Resistance \ Factored \ Scour \ Resistance \ Factored \ Resistance \ Resistance$

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	125			0.60			
End Bent 2, Piles 1-11	115			0.60			

*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	655	507.0	30	523.5			70.0	60.0	YES	528.0	20.0

*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.

Pile Driving Ana PDA Testing

Required? Bent No YES or MAYBE End Bent 1, Piles 1-10 MAYBE End Bent 2, Piles 1-11 MAYBE

End Bent/

*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.

End Bent/	Pipe Pile	s			
Bent No, Pile(s) #-# (e.g., "Bent 1, Piles 1-5")	Plates 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				YES	
End Bent 2, Piles 1-11				YES	
TOTAL QTY:				21	

SUMMARY OF DRILLED PIER TESTING

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		MAYBE	162	Yes	
TOTAL QTY:		1	486	3	
CSL Tubes are require qual to one tube per fo ube is equal to the dril	ot of design pier	diameter with a			•
			I	PROJECT NO.	I

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 (Chien-Ting Tang, 047389) on 3-28-2022.

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.

SUMMARY OF PDA/PILE ORDER LENGTHS

(Blank entries indicate item is not applicable to structure)

alyz	er (PDA)		Pile Order Lengths				
?	PDA Test Pile Length FT	Total PDA Testing Quantity EACH	End Bent/ Bent No(s)	Pile Order Length Basis* EST or PDA			
		1					

SUMMARY OF PILE ACCESSORIES

(Blank entries indicate item is not applicable to structure)

(Blank entries indicate item is not applicable to structure)

IO.	B-5/21				

COUNTY

ROCKINGHAM

STATION:

SHEET 3 OF 5

STATE OF NORTH CAROLINA

21+64.00 -L-

TH CAROL	DEPARTMENT OF TRANSPORTATION RALEIGH								
SEAL 36871 WINE PREVSIGNED by: FYANCUSCA B79DADB65D584EF									
@®≠23/2023⊧			REVI	SIONS	3		SHEET NO. S-03		
DOCUMENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL		
FINAL UNLESS ALL	1			3			SHEETS		
SIGNATURES COMPLETED	2			4			31		