			S			LE INFORM							
						DRIVEN PILES		PRE	DRILLING FOR PILES	S *	D	RILLED-IN PILE	S
	FACTORED RESISTANCE PER PILE		ESTIMATED PILE LENGTH PER PILE	SCOUR CRITICAL ELEVATION	MIN.PILE TIP (TIP NO HIGHER THAN)ELEV.	REQUIRED DRIVING RESISTANCE (RDR) * * PER PILE	TOTAL PILE REDRIVES QUANTITY	PREDRILLING LENGTH PER PILE	PREDRILLING ELEVATION (ELEV.NOT TO PREDRILL BELOW)	MAXIMUM PREDRILLING DIAMETER	PILE EXCAVATION BOTTOM OF HOLE)ELEV.	PILE EXCAVATION NOT IN SOIL PER PILE	PILE EXCAVATION IN SOIL PER PILE
	TONS	FT.	FT.	FT.	FT.	TONS	EA.	LIN.FT.	FT.	INCHES	FT.	LIN.FT.	LIN.FT.
END BENT 1, PILES 1-8	113	868.00	25	-	-	190	7	-	-	-	-	-	-
END BENT 2, PILES 1-6	105	865.20	20	-	-	175		-	-	_	-	-	_

* 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 = FACTORED RESISTANCE + FACTORED DOWNDRAG LOAD + FACTORED DEAD LOAD + NOMINAL DOWNDRAG RESISTANCE + NOMINAL SCOUR RESISTANCE FACTOR

BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)								
	FACTORED AXIAL LOAD PER PILE	FACTORED DOWNDRAG LOAD PER PILE	FACTORED DEAD LOAD * PER PILE	DYNAMIC RESISTANCE FACTOR	NOMINAL DOWNDRAG RESISTANCE PER PILE	NOMINAL SCOUR RESISTANCE PER PILE	SCOUR RESISTANCE FACTORE (DEFAULT = 1.00)	
	TONS	TONS	TONS		TONS	TONS		
END BENT 1, PILES 1-8	112.5	-	_	0.6	_	_		
END BENT 2, PILES 1-6	105	-	-	0.6	-	_		

* FACTORED DEAD LOAD IS FACTORED WEIGHT OF PILE ABOVE THE GROUND LINE.

	FACTORED RESISTANCE PER PILE	MINIMUM PIER TIP (TIP NO HIGHER THAN) ELEVATION	REQUIRED TIP RESISTANCE PER PIER	SCOUR CRITICAL ELEVATION	MINIMUM DRILLED PIER PENETRATION INTO ROCK PER PIER	DRILLED PIER LENGTH * PER PIER	DRILLED PIER LENGTH* NOT IN SOIL PER PIER	DRILLED PIER LENGTH * IN SOIL PER PIER	PERMANENT STEEL CASING REQUIRED?	PERMANENT STEEL CASING TIP ELEVATION (ELEV.NOT TO EXTEND CASING BELOW)	PERMANENT STEEL CASING LENGTH * * PER PIER
	TONS	FT.	TSF.	FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	YES/MAYBE	FT.	LIN.FT.
BENT 1, PIERS 1-3	480	832.0	50	838.5	9	-	9	2			

* DRILLED PIER LENGTH, DRILLED PIER LENGTH NOT IN SOIL AND DRILLED PIER LENGTH IN SOIL REPRES PIERS' IN ACCORDANCE WITH ARTICLE 411-7 OF THE NCDOT STANDARD SPECIFICATIONS. ** PERMANENT STEEL CASING LENGTH EQUALS THE DIFFERENCE BETWEEN THE GROUND LINE OR TOP OF D MEASURED AND PAID FOR AS "PERMANENT STEEL CASING FOR 42"DIA.DRILLED PIER" IN ACCORDANCE WI

FOUNDATION NOTES:

THE PILE AND DRILLED PIER FOUNDATION TABLES ARE BASED ON THE BRIDGE SUBSTRUCTURE DESIGN AND FOUNDATION RECOMMENDATIONS SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER (ATEFEH ASOUDEH, PE #043747)ON 07-19-2023.

TOTAL PILE DRIVING EQUIPMENT SETUP QUANTIT SHOWN IN PILE FOUNDATION TABLES) EQUALS THE OF DRIVEN PILES, I.E., THE NUMBER OF PILES WI REQUIRED DRIVING RESISTANCE.

THE ENGINEER WILL DETERMINE THE NEED FOR DY PILE TESTING, SPTS, CSL TESTING, AND SID INSPECTIONS WHEN THESE ITEMS MAY BE REQUIR

TY (NOT E NUMBER		REQUI
[ΤΗ Α		YES/M
	BENT 1, PIERS 1-3	MAY
YNAMIC	TOTAL QTY.:	1
RED.	* CSL TUBES ARE REQU DRILLED PIER IS EQU	AL TO C

i†€ 9/	DRAWN BY :	
1 2 0	CHECKED BY : L.K.AUSTIN	DATE : <u>SEP 2023</u>
ор 12	DRAWN BY : <u>T.K.BOYD</u> CHECKED BY : <u>L.K.AUSTIN</u> DESIGN ENGINEER OF RECORD : <u>O.J.PAITEL</u>	DATE : <u>SEP 2023</u>

SUMMARY OF DRILLED PIER TESTING								
	STANDARD PENETRATION TEST (SPT) REQUIRED?	CROSSHOLE SONIC LOGGING (CSL) REQUIRED? *	TOTAL CSL TUBE LENGTH (FOR ALL TUBES) PER PIER	SHAFT INSPECTION DEVICE (SID) REQUIRED?	PILE INTEGRITY TEST (PIT) REQUIRED?			
	YES/MAYBE	YES/MAYBE	LIN.FT.	YES/MAYBE	MAYBE			
BENT 1, PIERS 1-3	MAYBE	ΜΑΥΒΕ	51.0	MAYBE				
TOTAL QTY.:	1	1	153	1				
* CSL TUBES ARE REQU	JIRED IF CSL TE	STING IS OR MAY	BE REQUIRED. TH	E NUMBER OF CS	SL TUBES PER			

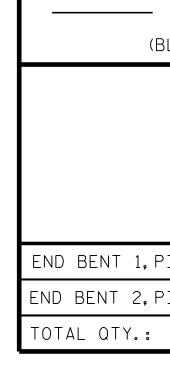
ONE TUBE PER FOOT OF DESIGN PIER DIAMETER WITH AT LEAST 4 TUBES PER PIER. THE LENGTH OF EACH CSL TUBE IS EQUAL TO THE DRILLED PIER LENGTH PLUS 1.5 FT.

SUMMARY OF PDA/PILE ORDER LENGTHS								
	PILE DRIVIN	G ANALYZER (DYNAM]	PILE ORDER LENGTHS					
	DYNAMIC PILE TESTING REQUIRED	DYNAMIC PILE TEST PILE LENGTH	TOTAL DYNAMIC PILE TESTING QUANTITY		PILE ORDER LENGTH BASIS *			
	YES/MAYBE	FT.	EA.		EST./DPT			
END BENT 1	MAYBE	25						
END BENT 2	MAYBE	20	1					

* EST = PILE ORDER LENGTHS FROM ESTIMATED PILE LENGTHS; DTP = PILE ORDER LENGTHS BASED ON DYNAMIC PILE TESTING.FOR GROUPS OF END BENTS/BENTS WITH PILE ORDER LENGTHS BASED ON DYNAMIC PILE TESTING, THE FIRST END BENT/BENT NO.LISTED FOR EACH GROUP IS THE REPRESENTATIVE END BENT/BENT WITH THE DYNAMIC PILE TESTING.

ESENT	ESTIMATED	DRILLED	PIER	QUANTITIES	AND	ARE	MEASURED	AND	PAID	FOR	AS	``42″DIA.DRILLED	

DRILLED PIER	ELEVATION,	WHICHEVER IS	HIGHER, AND	THE PERMANENT	CASING TIP	P ELEVATION /	AND IS
/ITH ARTICLE	411-7 OF THE	E NCDOT STANDA	ARD SPECIFIC	CATIONS.			





SUMMARY OF PILE ACCESSORIES							
		STE	EEL PILE POIN	ITS			
	PIPE PILE PLATES REQUIRED?	PIPE PILE CUTTING SHOES REQUIRED?	PIPE PILE CONICAL POINTS REQUIRED?	H-PILE POINTS REQUIRED?	STEEL PILE TIPS REQUIRED?		
	YES/MAYBE	YES	YES	YES	YES		
PILES 1-8				YES			
PILES 1-6				YES			
				14			
			DJECT NO FORS ATION: 14	YTH	_ COUNTY		

		STATION: 140+39.50 -L-					
		SHEET 3 OF 5					
78-9560	BRIDGE NO. 330814 CAROJ SEAL Bocussigned by 48850 Chadine Paitel	DEPARTMENT OF TRANSPORTATION RALEIGH GENERAL DRAWING PILE AND DRILLED PIER FOUNDATION TABLES					
orks Road, Forum 1 Suite 700 orth Carolina 27615 NC License No. F-0112	NE J. PAL	RIGHT LANE					
Construction Managers Planners Scientists om	12/19/2023	REVISIONS SHEET					
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