SUMMARY OF PILE INFORMATION/ INSTALLATION

(BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)

END BENT/		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		
BENT NO. PILE (s) #-# (e.g., "BENT 1, PILES 1-5")					NO HIGHER	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 1-8	120	796.93	75			200							
END BENT 2, PILES 1-8	120	796.70	70			200							
BENT 1, PILES 1-21	110	770.86	65			185							

* PREDRILLING FOR PILES IS REQUIRED FOR END BENTS/ BENT WITH A PREDRILLING LENGTH AND AT THE CONTRACTOR'S OPTION FOR END BENTS/ BENTS WITH PREDRILLING INFORMATION BUT NO PREDRILLING LENGTH.

FACTORED RESISTANCE + FACTORED DOWNDRAG LOAD + FACTORED DEAD LOAD + NORMAL DOWNDRAG RESISTANCE + NORMAL SCOUR RESISTANCE DYNAMIC RESISTANCE FACTOR SCOUR RESISTANCE FACTOR

SUMMARY OF PDA/ PILE ORDER LENGTHS (BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)									
NALYZER (PDA)	PILE ORDER LENGTHS								
PDA TESTING REQUIRED? YES OR MAYBE FT		TOTAL PDA TESTING QUALITY EACH	END BENT/ BENT NO(s)	PILE ORDER LENGTH BASIS8 EST OR PDA					
	ANK ENTRIES INDICANALYZER (PDA) PDA TESTING REQUIRED? YES OR	ANK ENTRIES INDICATE ITEM IS ANALYZER (PDA) PDA TESTING REQUIRED? YES OR MAYBE ANALYZER ITEM IS PDA TEST PILE LENGTH	ANK ENTRIES INDICATE ITEM IS NOT APPLICA ANALYZER (PDA) PDA TESTING REQUIRED? YES OR MAYBE TEST PILE LENGTH TOTAL PDA TESTING QUALITY EACH	ANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE) ANALYZER (PDA) PDA TESTING REQUIRED? YES OR MAYBE PDA TEST PILE LENGTH PDA TESTING QUALITY EACH PDA TESTING QUALITY EACH					

*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.

PILE DESIGN INFORMATION (BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE) FACTORED FACTORED FACTORED END BENT/ NOMINAL SCOUR NOMINAL DOWNDRAG BENT NO. AXIAL DEAD DYNAMIC DOWNDRAG SCOUR RESISTANCE RESISTANCE RESISTANCE LOAD LOAD* RESISTANCE LOAD PILE (s) #-# FACTOR PER PILE (e.g., "BENT 1, PILES 1-5") PER PILE PER PILE FACTOR PER PILE PER PILE TONS (DEFAULT=1.00) TONS TONS END BENT 1, PILES 1-8 120 0.60 END BENT 2, PILES 1-8 120 0.60 BENT 1, PILES 1-21 110 0.60

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

FOUNDATION NOTES:

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

OBSERVE A 1 MONTH WAITING PERIOD AFTER CONSTRUCTING THE EMBANKMENT TO WITHIN 2 FT.OF FINISHED GRADE BEFORE BEGINNING END BENT CONSTRUCTION AT END BENT NO.1 AND END BENT NO.2. FOR BRIDGE WAITING PERIODS, SEE ROADWAY PLANS AND SECTION 235 OF THE STANDARD SPECIFICATIONS.

NOTES:

TOTAL QTY.

- 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 2/23/23.
- 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.

SUMMARY OF PILE ACCESSORIES (BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)									
END BENT/	PIPE PILE	ST	CTEEL						
BENT NO. PILE (s) #-# (e.g., "BENT 1, PILES 1-5")	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				

PROJECT NO. R-2707E CLEVELAND COUNTY STATION: 13+08.49 -Y42-

> STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE



PILE FOUNDATION TABLES

5/5%/22 92 8 3 80774AF			SHEET NO.					
DOCUMENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S7- 03	
FINAL UNLESS ALL	1			3			TOTAL SHEETS	
SIGNATURES COMPLETED	2			4,			34	

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