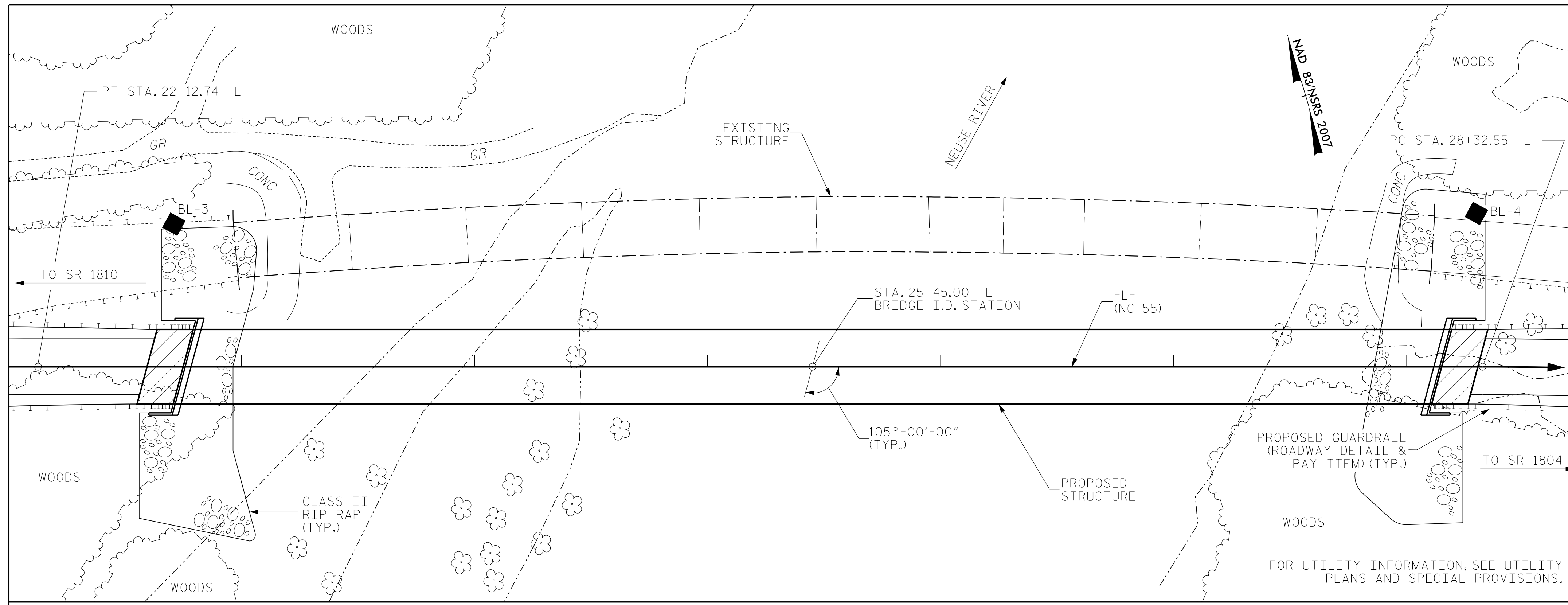


BM 1: -L- STA 16+22.69, 52.54' LEFT, BENCH NAIL SET IN 6" PINE, ELEV. 24.78



LOCATION SKETCH

TOTAL BILL OF MATERIAL

	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMPORARY ACCESS	REMOVAL OF EXISTING STRUCTURE	ASBESTOS ASSESSMENT	4'-0" Ø DRILLED PIERS	PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIERS	DYNAMIC PILE TESTING	SID INSPECTIONS	CSL TESTING	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS
	LUMP SUM	LUMP SUM	LUMP SUM	LIN. FT.	LIN. FT.	EACH	EACH	EACH	SQ. FT.	SQ. FT.	CU. YARDS	LUMP SUM
SUPERSTRUCTURE									19,136	16,956		LUMP SUM
END BENT NO. 1											40.6	
BENT NO. 1				235.5	106.5		1	1			43.3	
BENT NO. 2				223.5	106.5		1	1			44.1	
BENT NO. 3				229.5	109.5		1	1			44.5	
BENT NO. 4				231.0	112.5		1	1			44.3	
BENT NO. 5				234.0	124.5		1	1			43.5	
END BENT NO. 2											44.2	
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	1153.5	559.5	2	5	5	19,136	16,956	304.5	LUMP SUM

	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	54" PRESTRESSED CONCRETE GIRDERS	PILE DRIVING EQUIPMENT SETUP FOR HP 14x73 STEEL PILES	HP 14 X 73 STEEL PILES	PILE REDRIVES	TWO BAR METAL RAIL	1'-2" X 2'-6" CONCRETE PARAPET	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	FOAM JOINT SEALS
	LBS.	LBS.	NO. LIN. FT.	NO.	NO. LIN. FT.	EACH	LIN. FT.	LIN. FT.	TONS	SQ. YARDS	LUMP SUM	LUMP SUM
SUPERSTRUCTURE			30 2674.58				1059.63	1,074.67			LUMP SUM	LUMP SUM
END BENT NO. 1	5,394			8	8	320	4		487	492		
BENT NO. 1	28,800	7,090										
BENT NO. 2	28,182	6,862										
BENT NO. 3	28,505	7,044										
BENT NO. 4	28,617	7,076										
BENT NO. 5	28,762	7,093										
END BENT NO. 2	5,739			8	8	400	4		442	446		
TOTAL	153,999	35,165	30 2674.58	16	16	720	8	1059.63	1,074.67	929	938	LUMP SUM LUMP SUM

HYDRAULIC DATA

DESIGN DISCHARGE = 20700 CFS  
 DESIGN FREQUENCY = 5 YRS  
 DESIGN HW ELEVATION = 24.8 FT  
 BASE DISCHARGE = 44300 CFS  
 BASE FREQUENCY = 100 YRS  
 BASE HW ELEVATION = 30.9 FT

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 26000 CFS  
 OVERTOPPING FREQUENCY = 10+ YRS  
 OVERTOPPING ELEVATION = 26.2 \* FT  
 DRAINAGE AREA = 2800 SQ. MI.

\* OVERTOPPING OCCURS AT LOW ROADWAY ELEVATION STA. 15+00; BEGIN CONSTRUCTION FOR B-4926; BRIDGE RS 213795; ELEVATION=26.2

GENERAL NOTES

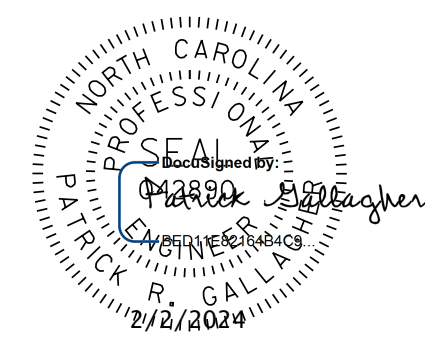
- ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.
- THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.
- FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.
- AFTER SERVING AS A TEMPORARY STRUCTURE, THE EXISTING STRUCTURE CONSISTING OF 10 SPANS AT 50'-0", WITH A REINFORCED CONCRETE FLOOR ON I-BEAMS AND REINFORCED CONCRETE DECK GIRDERS, AND A CLEAR ROADWAY WIDTH OF 24'-0", ON END BENTS AND BENTS OF REINFORCED CONCRETE CAPS ON PRESTRESSED CONCRETE PILES, LOCATED JUST DOWNSTREAM OF THE PROPOSED STRUCTURE, SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, THE LOAD LIMIT MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT.
- REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER THAT PREVENTS DEBRIS FROM FALLING INTO THE WATER. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.
- THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.
- FOR ASBESTOS ASSESSMENT, SEE SPECIAL PROVISIONS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH 'HEC 18- EVALUATING SCOUR AT BRIDGES'.
- NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
- REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR EMBANKMENT EXCAVATION NEAR LEFT SIDE OF BRIDGE, SEE ROADWAY PLANS, ROADWAY DETAIL AND PAY ITEM.
- FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS, SEE SPECIAL PROVISIONS.

PROJECT NO. B-4926  
LENOIR COUNTY  
 STATION: 25+45.00 -L-

SHEET 6 OF 6

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

GENERAL DRAWING  
 FOR BRIDGE OVER  
 NEUSE RIVER ON  
 NC-55 BETWEEN  
 SR 1810 AND SR 1804



DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

**JWT** Johnson, Mirmiran, & Thompson Inc.  
 4700 Falls of Neuse Rd, Suite 100,  
 Raleigh, NC, 27609  
 License No: C-3097

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-6
1			3			TOTAL SHEETS
2			4			49

WDC/PRG/VJC/Structures/0317-01 - B-4926 Lenoir 20 & 3A Structures/Lenoir 20/Planes/01\_B-4926\_SMU\_G004\_006.dgn  
 DATE: 03/2024 AM on Wednesday, January 31, 2024  
 TIME: 08:26

DWN. BY: WDC DATE: 03/2023  
 CHKD. BY: PRG DATE: 03/2023  
 DES. EGR. OF RECORD: PRG DATE: 03/2023