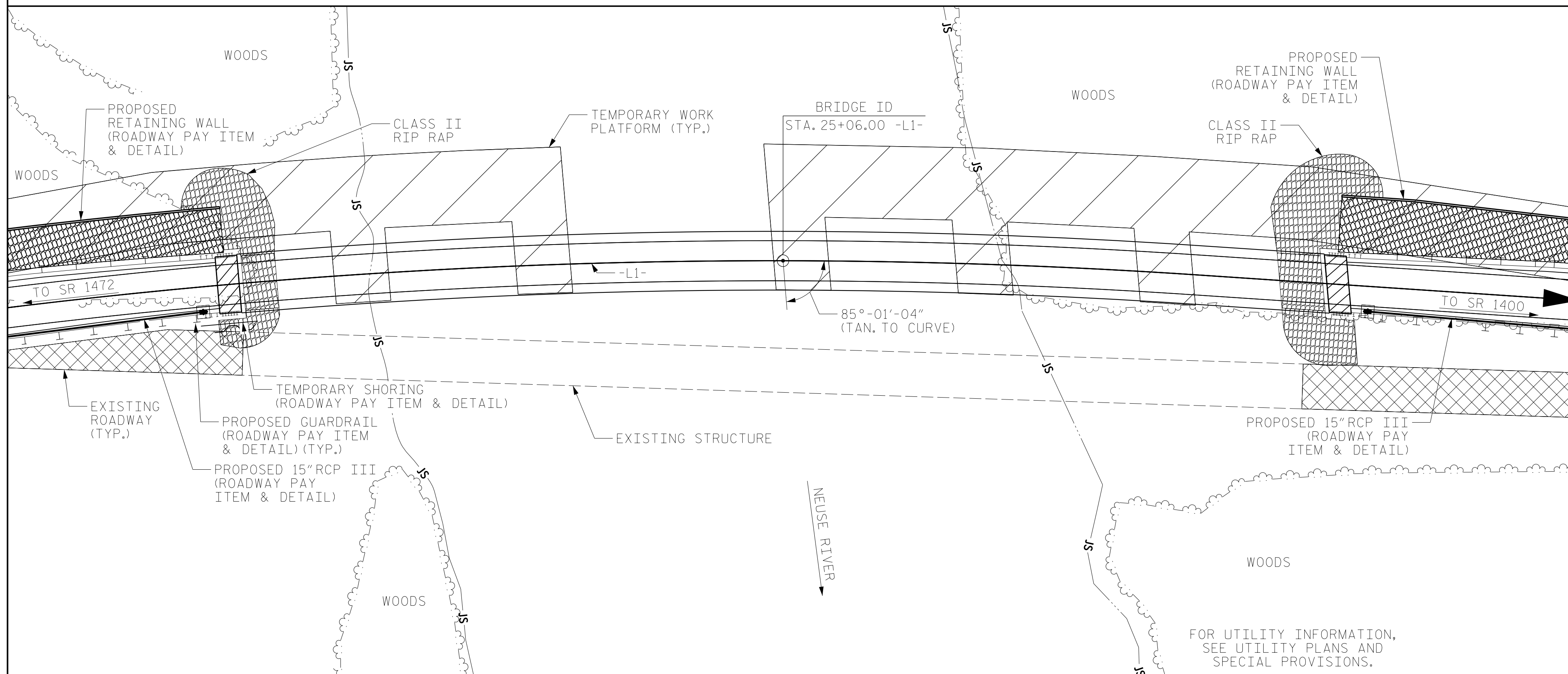


BENCHMARK - NCDOT GPS (B4484-1), 29' RT. OF -L1- STA. 19+61.00, EL. 24.22



LOCATION SKETCH

NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.
 THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
 THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.
 FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.
 FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
 FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
 FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
 FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
 PRESTRESSED CONCRETE DECK PANELS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
 REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
 NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
 INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE AT STATION 25+06.00 -L1-."
 FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.
 AFTER SERVING AS A TEMPORARY STRUCTURE THE EXISTING STRUCTURE CONSISTING OF 1 @ 40'-3", 5 @ 40'-0", 1 @ 60'-0", 6 @ 40'-0", 1 @ 40'-3" SPANS WITH A REINFORCED CONCRETE DECK ON STEEL I-BEAMS, WITH A CLEAR ROADWAY OF 22'-0" ON REINFORCED CONCRETE CAPS ON TIMBER PILES AND STEEL CRUTCH BENTS LOCATED APPROXIMATELY 60'-0" DOWNSTREAM FROM 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.
 THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. 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.
 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.
 THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18 - EVALUATING SCOUR AT BRIDGES."

TOTAL BILL OF MATERIALS

	CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY ACCESS AT STA. 25+06.00 -L1-	REMOVAL OF EXISTING STRUCTURE @ STA. 25+06.00 -L1-	ASBESTOS ASSESSMENT	PDA TESTING	UNCLASSIFIED STRUCTURE EXCAVATION @ STA. 25+06.00 -L1-	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	54" PRESTRESSED CONCRETE GIRDERS	PILE DRIVING EQUIPMENT SETUP FOR HP 12X53 STEEL PILES	
	LUMP SUM	LUMP SUM	LUMP SUM	EACH	LUMP SUM	SQ. FT.	SQ. FT.	CU. YDS.	LUMP SUM	LBS.	NO.	LIN. FT.	EACH
SUPERSTRUCTURE	---	---	---	---	---	19,277	16,733	---	LUMP SUM	---	24	2,381.0	---
END BENT 1	---	---	---	---	---	---	---	40.9	---	7,020	---	---	8
BENT 1	---	---	---	---	---	---	---	31.3	---	3,299	---	---	---
BENT 2	---	---	---	---	---	---	---	31.3	---	3,299	---	---	---
BENT 3	---	---	---	---	---	---	---	31.3	---	3,299	---	---	---
BENT 4	---	---	---	---	---	---	---	31.4	---	3,299	---	---	---
BENT 5	---	---	---	---	---	---	---	31.5	---	3,299	---	---	---
END BENT 2	---	---	---	---	---	---	---	41.4	---	7,050	---	---	8
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	7	LUMP SUM	19,277	16,733	239.1	LUMP SUM	30,565	24	2,381.0	16

	PILE DRIVING EQUIPMENT SETUP FOR PP 36 X 0.50 GALVANIZED STEEL PILE	HP 12X53 STEEL PILES	PP 36 X 0.50 GALVANIZED STEEL PILES	STEEL PILE POINTS	PILE REDRIVES	VERTICAL CONCRETE BARRIER	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	FOAM JOINT SEALS	TOP PIPE PILE PLATES		
	EACH	NO.	LIN. FT.	NO.	LIN. FT.	EACH	EACH	TONS	SQ. YDS.	LUMP SUM	LUMP SUM	EACH	
SUPERSTRUCTURE	---	---	---	---	---	---	---	1,195.3	---	LUMP SUM	LUMP SUM	---	
END BENT 1	---	8	520	---	---	---	5	425	470	---	---	---	
BENT 1	4	---	---	4	400	4	2	---	---	---	---	4	
BENT 2	4	---	---	4	420	4	2	---	---	---	---	4	
BENT 3	4	---	---	4	420	4	2	---	---	---	---	4	
BENT 4	4	---	---	4	400	4	2	---	---	---	---	4	
BENT 5	4	---	---	4	420	4	2	---	---	---	---	4	
END BENT 2	---	8	520	---	---	---	5	---	---	---	---	---	
TOTAL	20	16	1,040	20	2,060	20	20	1,195.3	980	1,085	LUMP SUM	LUMP SUM	20

HYDRAULIC DATA

DESIGN DISCHARGE	= 19,400 CFS
FREQUENCY OF DESIGN DISCHARGE	= 2 YRS
DESIGN HIGH WATER ELEVATION	= 13.2
DRAINAGE AREA	= 3,950 SQ. MI.
BASE DISCHARGE (Q100)	= 70,000 CFS
BASE HIGH WATER ELEVATION	= 23.3

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 22,400 CFS
FREQUENCY OF OVERTOPPING	= 2+ YRS
* OVERTOPPING ELEVATION	= 13.8
* SAG @ STA. 7+20.00 -L1- (280' BACKSTATION FROM 10+00)	

PROJECT NO. B-4484
CRAVEN COUNTY
 STATION: 25+06.00 -L1-

SHEET 5 OF 5 REPLACES BRIDGE NO. 240138



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 BRIDGE OVER NEUSE RIVER
 ON SR 1470 BETWEEN
 SR 1472 AND SR 1400

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-5
1			3			TOTAL SHEETS
2			4			37

DRAWN BY : NSC DATE : .05/2019
 CHECKED BY : MAL DATE : .06/2019
 DESIGN ENGINEER OF RECORD: MAL DATE : .06/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED