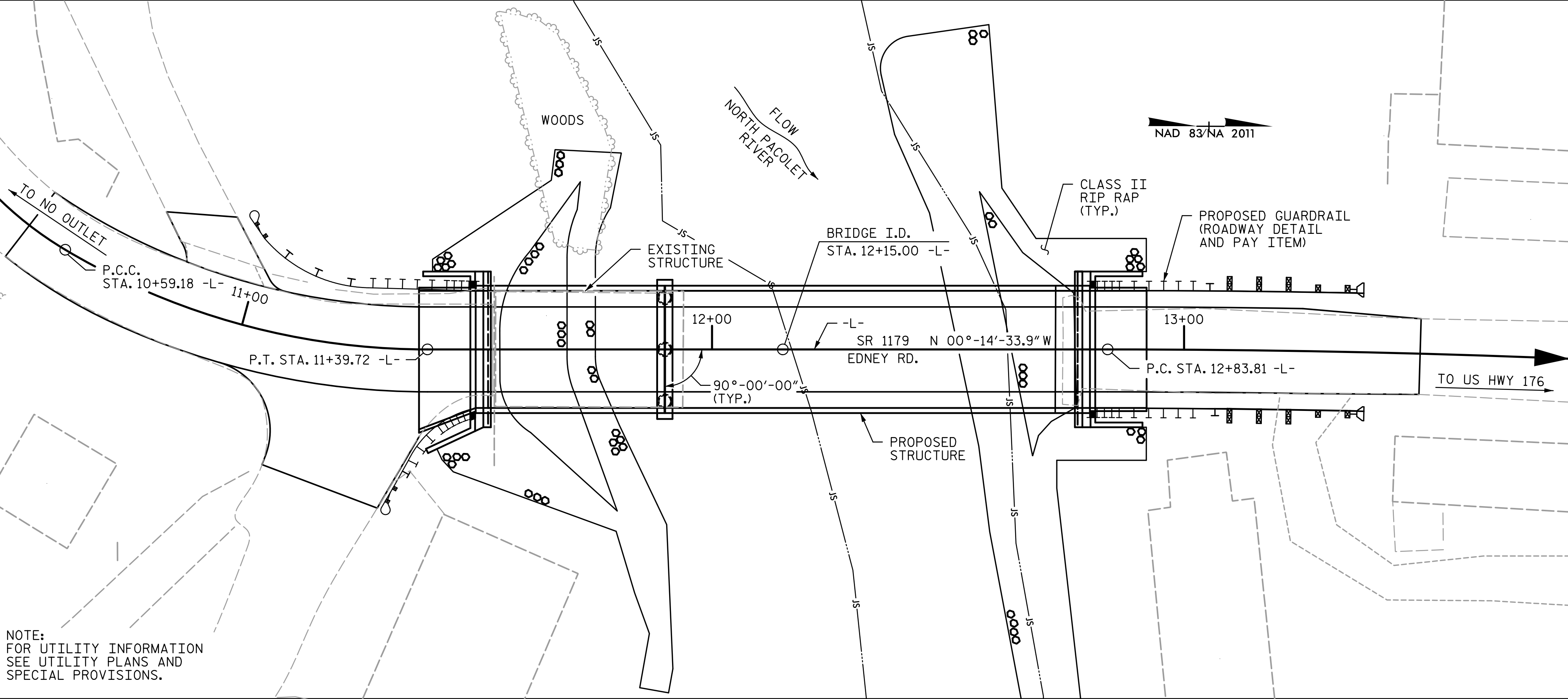


BENCHMARK BM-1: RR SPIKE IN BASE OF 48" OAK. STA. 13+31.44 -L-, 76.00' RT. EL. 981.97 (N 552683, E 1023469)



NOTE:
FOR UTILITY INFORMATION
SEE UTILITY PLANS AND
SPECIAL PROVISIONS.

LOCATION SKETCH

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 "STANDARD NOTES" SHEET.
- FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
- THE EXISTING STRUCTURE CONSISTING OF (3) 45'-0" SPAN WITH A CLEAR ROADWAY OF 30'-10" AND SUPPORTED BY REINFORCED CONCRETE ABUTMENTS SHALL BE REMOVED.
- REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL 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.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18 - EVALUATING SCOUR AT BRIDGES".
- 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.
- ASPHALT WEARING SURFACE IS INCLUDED IN ROADWAY QUANTITY ON ROADWAY PLANS.
- FOR ASBESTOS ASSESSMENT, SEE SPECIAL PROVISIONS.
- THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1 SHALL BE EXCAVATED A DISTANCE OF 20'-0" +/- TO THE LEFT AND TO THE RIGHT OF THE CENTERLINE OF THE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICATIONS.
- FOR SCT TESTING, SEE GEOTECHNICAL SPECIAL PROVISIONS.

TOTAL BILL OF MATERIALS

	REMOVAL OF EXISTING STRUCTURE @ STA. 12+15.00 -L-	ASBESTOS ASSESSMENT	PILE EXCAVATION IN SOIL	3'-6" DIA. DRILLED PIERS	PERMANENT STEEL CASING FOR 3'-6" Ø DRILLED PIER	SID INSPECTIONS	CSL TESTING	UNCLASSIFIED STRUCTURE EXCAVATION @ STA. 12+15.00 -L-	CLASS A CONCRETE	BRIDGE APPROACH SLABS AT STA. 12+15.00 -L-	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	PILE DRIVING EQUIPMENT SETUP FOR HP 12X53 STEEL PILES
	LUMP SUM	LUMP SUM	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	LUMP SUM	CU. YDS.	LUMP SUM	LBS.	LBS.	EACH
SUPERSTRUCTURE													
END BENT NO. 1			50						22.8		3,345		5
BENT NO. 1				159	39	1	1		16.9		13,736	3,705	
END BENT NO. 2			50						22.3		3,143		5
TOTAL	LUMP SUM	LUMP SUM	100	159	39	1	1	LUMP SUM	62.0	LUMP SUM	20,224	3,705	10

	HP 12X53 STEEL PILES		STEEL PILE POINTS	VERTICAL CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	3'-0" X 2'-9" PRESTRESSED CONCRETE BOX BEAM		SCT TESTING
	NO.	LIN. FT.	EACH	LIN. FT.	TONS	SQ. YDS.	LUMP SUM	NO.	LIN. FT.	EACH
SUPERSTRUCTURE				260				18	1,170	
END BENT NO. 1	5	225	5		213	225				
BENT NO. 1										3
END BENT NO. 2	5	225	5		417	440				
TOTAL	10	450	10	260	630	665	LUMP SUM	18	1,170	3

HYDRAULIC DATA

DESIGN DISCHARGE	= 2610 CFS
FREQUENCY OF DESIGN FLOOD	= 25 YRS
DESIGN HIGH WATER ELEVATION	= 974.60'
DRAINAGE AREA	= 17.2 SQ. MI.
BASE DISCHARGE (Q100)	= 3860 CFS
BASE HIGH WATER ELEVATION	= 975.90'

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 12,000 CFS
FREQUENCY OF OVERTOPPING FLOOD	= 500+ YRS
* OVERTOPPING FLOOD ELEVATION	= 982.20'
* OVERTOPPING @ STA. 12+98.61 -L-	
WSEL TAKEN AT RIVER STATION 589+87	

PROJECT NO. DF18314.2075090

POLK COUNTY

STATION: 12+15.00 -L-

SHEET 4 OF 4

DRAWN BY : M. R. ACOSTA DATE : 02/2025
CHECKED BY : T. R. LAWS DATE : 02/2025
DESIGN ENGINEER OF RECORD: T. R. LAWS DATE : 10/2025

10/7/2025
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Acost1.dgn

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

10/7/2025

RS&H

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Seal of the State of North Carolina
Professional Engineer
T. R. LAWS
No. 104937
Exp. 12/31/2025

10/7/2025

GENERAL DRAWING
FOR BRIDGE ON SR 1179
(EDNEY RD.) OVER
NORTH PACOLET RIVER
BETWEEN SR 1180
AND US HWY 176

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-4
1			3			TOTAL SHEETS
2			4			24