

NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH

THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

AT THE CONTRACTOR'S OPTION, AND UPON REMOVAL OF THE CAUSEWAY, THE CLASS II RIP RAP USED IN THE CAUSEWAY MAY BE PLACED AS RIP RAP SLOPE PROTECTION. SEE SPECIAL PROVISIONS FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

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	CONSTRUCTION MAINTENANCE & REMOVAL OF TEMPORARY ACCESS	DRILLED PIERS	3'-6"Ø DRILLED PIERS NOT IN SOIL	STEEL FOR	ANENT CASING 3'-6"Ø D PIERS	SID INSPECTI	ONS	CSL TESTIN	REINFORC CONCRET DECK SLA	E BRIDGE	CLASS A CONCRETE	BRIDGE APPROACH SLABS
	LUMP SUM	LIN.FT.	LIN.FT.	LIN	FT.	EACH		EACH	SQ.FT.	SQ.FT.	CU. YDS.	LUMP SUM
SUPERSTRUCTURE									9,328	8,282		LUMP SUM
END BENT No.1											20.7	
BENT No.1		7.16	19.00	8	.14						24.8	
BENT No. 2		59.00	19.00	34	.00						25.1	
ND BENT No. 2											20.7	
TOTAL	LUMP SUM	66.16	38.00	42	2.14	1		1	9,328	8,282	91.3	LUMP SUM
	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	STRUCTURAI STEEL		12 X 53 L PILES	TWO BAR METAL RAIL	CO	"× 2'-6" NCRETE ARAPET	RIP RAP CLASS II 2'-0" THICK	GEOTEXTILE FOR DRAINAGE	ELASTOMEF BEARING	
	LBS.	LBS.	LUMP SUM	NO.	LIN.FT.	LIN.FT.	L]	IN.FT.	TONS	SQ. YDS.	LUMP SUI	М
SUPERSTRUCTURE			LUMP SUM			595.00	61	10.00			LUMP SU	М
END BENT No.1	2,784			5	100				215	240		
BENT No.1	7,062	1,249										
BENT No. 2	14,220	2,344										
ND BENT No. 2	2,784			5	215				215	240		
TOTAL	26,850	3, 593	LUMP SUM	10	315	595.00	61	10.00	430	480	LUMP SU	M

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

EXISTING BRIDGE No.172 SHALL SERVE AS A TEMPORARY STRUCTURE DURING CONSTRUCTION OF THE PROPOSED BRIDGE. BRIDGE No.172 IS PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE FURTHER DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, THE LOAD LIMIT MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT. FOLLOWING COMPLETION OF THE PROPOSED STRUCTURE, BRIDGE No.172 SHALL BE CLOSED TO VEHICULAR TRAFFIC AND WILL SERVE AS A PEDESTRIAN BRIDGE.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18-EVALUATING SCOUR AT BRIDGES."

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR PLACING LOAD ON STRUCTURE MEMBERS, SEE SPECIAL PROVISIONS.

SLURRY CONSTRUCTION SHALL NOT BE USED FOR THIS PROJECT.

HYDRAULIC DATA

DESIGN DISCHARGE23800 CFS
FREQUENCY OF DESIGN FLOOD25 YEARS
DESIGN HIGH WATER ELEVATION1936.
DRAINAGE AREA374 SQ. M
BASE DISCHARGE (Q100)26400 CF
BASE HIGH WATER ELEVATION1938.

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	_540	00	CFS
FREQUENCY OF OVERTOPPING FLOOD	.500	+	YRS.
OVERTOPPING FLOOD ELEVATION		.19	46.0

PROJECT NO. B-3868

MACON COUNTY

STATION: 18+33.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALETCH

GENERAL DRAWING

FOR BRIDGE OVER LITTLE TENNESSEE RIVER ON SR 1456 BETWEEN NC 28 AND SR 1373

		SHEET NO.				
•	BY:	DATE:	NO.	BY:	DATE:	S-3
			3			TOTAL SHEETS
			4			40

DRAWN BY: _______ M. POOLE \ DAH _____ DATE: _____6/15
CHECKED BY: ______ H. T. BARBOUR DATE: ____6-26-15