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 4 SPANS @ 70'-O"WITH REINFORCED CONCRETE DECK AND 3" ASPHALT WEARING SURFACE: ON STEEL-I BEAMS WITH A CLEAR ROADWAY WIDTH OF 30.0 FT: ON REINFORCED CONCRETE SPILL THROUGH ABUTMENTS AND REINFORCED CONCRETE POST AND WEB BENTS LOCATED AT THE PROPOSED STRUCTURE SITE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED BELOW THE LEGAL LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE, A LOAD LIMIT MAY BE POSTED AND 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 THE 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.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1 SHALL BE EXCAVATED FOR A DISTANCE OF 70 FT AT END BENT 1 AND 60 FT AT END BENT 2 EACH SIDE OF CENTERLINE OF 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.

TOTAL BILL OF MATERIAL																				
	CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS	UNCLASSIFIED STRUCTURE EXCAVATION	REMOVAL OF EXISTING STRUCTURE AT STATION 20+16.00 -L-	4'-O″DIA. DRILLED PIER IN SOIL	4'-O"DIA. DRILLED PIER NOT IN SOIL	PERMANENT STEEL CASING FOR 4'-O"DIA. DRILLED PIER	CSL TESTING	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	PRE C(G	54″ STRESSED ONCRETE SIRDERS	HP Stee	12 X 53 El PILES	STEEL PILE POINTS	PREDRILLING FOR PILES	RESTRAINED JOINT WATER PIPE INSTALLED ON BRIDGE
	LUMP SUM	LUMP SUM	LUMP SUM	LIN.FT.	LIN.FT.	LIN.FT.	EA.	SQ.FT.	SQ.FT.	CU.YDS.	LUMP SUM	LBS.	LBS.	NO.	LIN.FT.	NO.	LIN.FT.	NO.	LIN.FT.	LUMP SUM
SUPERSTRUCTURE								14,751	11,427					18	1,756.40					
END BENT 1										74.3		8,185				13	911	13	249	
BENT 1				59.0	53.0	76.0				67.8		27,147	4,291							
BENT 2				53.0	37.0	54.0				64.7		20,369	3,711							
END BENT 2										60.4		6,354				13	511	13	234	
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	112.0	90.0	130.0	1	14,751	11,427	267.2	LUMP SUM	62,055	8,002	18	1,756.40	26	1,422	26	483	LUMP SUM

TOTAL BILL OF MATERIAL											
	2 BAR METAL RAIL	1'-3 /2" X 2'-6" CONCRETE PARAPET	ARCHITECTURAL CONCRETE SURFACE TREATMENT	APPLICATION OF BRIDGE COATING	ELECTRICAL CONDUIT SYSTEM AT STATION 20+16.00 -L-	RIP RAP CLASS II	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	FOAM JOINT SEALS		
	LIN.FT.	LIN.FT.	SQ.FT.	LUMP SUM	LUMP SUM	TONS	SQ.YDS.	LUMP SUM	LUMP SUM		
SUPERSTRUCTURE	562.70	595.27	2,129.4								
END BENT 1			593.7			183	204				
BENT 1											
BENT 2											
END BENT 2			477.4			117	130				
TOTAL	562.70	595.27	3,200.5	LUMP SUM	LUMP SUM	300	334	LUMP SUM	LUMP SUM		

	lgn	
	s_02.c	
	-sd_l	
	B-4159	
	I\s5_I	
015	s\Find	Jineer
4/2	Jan	Č

-

+

2015 Is/F	DRAWN BY :	D.H.CARTER	2	DATE	:SEP	2015
14/	CHECKED BY	K. M. MOBLEY	//T.E.TALLMAN	DATE	SEP	2015
10/ ICA	DESIGN ENGI	EER OF RECORD:	T.E.TALLMAN	DATE	.0CT	201

NOTES:

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 ITEMS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR PLACING LOAD ON STRUCTURE MEMBERS, SEE SPECIAL PROVISIONS.

FOR VERTICAL ARCHITECTURAL CONCRETE SURFACE TREATMENT OF THE CONCRETE PARAPET AND END BENTS, SEE SPECIAL PROVISIONS.

FOR ELECTRICAL CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.

FOR APPLICATION OF BRIDGE COATING, SEE SPECIAL PROVISIONS.

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 AT STATION 20+16.00 -L-.

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.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUION 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.

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

AT BRIDGES."

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

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 20+16.00."

FOR INSTALLATION AND ATTACHMENT OF 16" WATER MAIN. SEE SPECIAL PROVISIONS.



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

•

		PROJEC	CT NO.		B-4159		
			JACKS	ON	CC	UNTY	
		STATI	ON:	20+1	6.00 -L-	•	
		SHEET 5 C)F 5				
		STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
		GI	ENER	AL D	RAWIN	١G	
▶	SEAL 14408	TUCKA BETWE	FOR E SEGEE EN SR	BRIDGE RIVEE 1336	E OVER R ON SF AND SF	R 1002 R 1732	
	AS E TALLMUT	NO. BY:	REVIS	SIONS	DATE	SHEET NO. S-5	
9 NC 27607	Docusigned Lynnin Thomas E. Tallman E9B789620EE24D510/15/2015	1		3 4		total sheets 64	