

TOTAL BILL OF MATERIAL											
	REMOVAL OF EXISTING STRUCTURE	NG ASSESSMENT EXCAVAT		REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL		
	LUMP SUM	LUMP SUM	LUMP SUM	SQ.FT.	SQ.FT.	CU. YDS.	LUMP SUM	LBS.	LBS.		
SUPERSTRUCTURE		LUMP SUM		6,324	6,259		LUMP SUM				
END BENT 1						34.3		4,460			
BENT 1			LUMP SUM			49.5		7,264	877		
END BENT 2						35.4		4 <b>,</b> 515			
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	6,324	6,259	119.2	LUMP SUM	16,239	877		

	54" PRESTRESSED CONCRETE GIRDERS		PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	HP 12 X 53 STEEL PILES		TWO BAR METAL RAIL	1'-2" X 2'-6" CONCRETE PARAPET	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS
	NO.	LIN.FT.	EACH	NO.	LIN.FT.	LIN.FT.	LIN.FT.	SQ. YDS.	LUMP SUM
SUPERSTRUCTURE	8	684.83				330.08	345.71		LUMP SUM
END BENT 1			6	6	450			373	
BENT 1			12	12	540				
END BENT 2			6	6	390			241	
TOTAL	8	684.83	24	24	1380	330.08	345.71	614	LUMP SUM

M.G.SHAIKH DATE : <u>04/2020</u> DRAWN BY : \_ H.A. LOCKLEAR DATE : 03/2022 DESIGN ENGINEER OF RECORD: \_\_\_\_\_E.BAYISSA \_\_\_ DATE : 08/2019

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.

FOR ASBESTOS ASSESSMNET FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES SEE SPECIAL PROVISIONS.

THE ELEVATIONS AND CLEARANCES SHOWN ON THE PLANS AT THE POINTS OF MINIMUM VERTICAL CLEARANCE ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE ELEVATIONS ON THE EXISTING PAVEMENT AND CHECK THE CLEARANCE. REPORT ANY VARIAITIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM VERTICAL CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.

FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, 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.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNANCE 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.

WORK SHALL NOT BE STARTED ON THIS BRIDGE UNTIL ROADWAY SECTION HAS BEEN EXCAVATED.

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 EXISITNG STRUCTURE CONSISTING OF 4 SPANS OF REINFORCED CONCRETE DECK ON PRESTRESSED CONCRETE GIRDERS, 1@ 48'-0", 2@ 60'-6" AND 1 @ 60'-10" ON REINFORCED CONCRETE CAP ON PILES AT END BENT 1, REINFORCED CONCRETE POST AND BEAM ON FOOTINGS AT INTERIOR BENTS AND REINFORCED CONCRETE CAP ON FOOTING AT END BENT 2 SHALL BE REMOVED. THE EXISITNG BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT. FOR REMOVAL OF EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

THE SUBSTRUCTURE OF THE EXISTING BRDIGE 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 DIFFERENCE BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

FOR EROSION CONTROL MEASURES. SEE EROSION CONTROL PLANS.

PROJECT NO. BR-0051 YADKIN \_\_\_ COUNTY STATION: 18+34.78 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

GENERAL DRAWING FOR BRIDGE OVER US 421 ON SR 1711 BETWEEN COURTNEY HUNTSVILLE RD AND OLD 421 RD.

DOCUM SIGN

04/25/2022									
			SHEET NO.						
MENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-3		
INAL UNLESS ALL	1			3			TOTAL SHEETS		
SNATURES COMPLETED	2			4			32		