

	TOTAL BILL OF MATERIAL																					
	3'-6"Ø DRILLED PIERS IN SOIL	3'-6″Ø DRILLED PIERS NOT IN SOIL	PERMANENT STEEL CASING FOR 3'-6"Ø DRILLED PIERS	PDA TESTING	SID INSPECTIONS	SPT TESTING	CSL TESTING	REINFORCED CONCRETE DECK SLAB) GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	PRE C (54″ ESTRESSED ONCRETE GIRDERS	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	HP STEE	12 X 53 EL PILES	CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-O" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS
	LIN.FT.	LIN.FT.	LIN.FT.	EA.	EA.	EA.	EA.	SQ.FT.	SQ.FT.	CU. YDS.	LUMP SUM	LBS.	LBS.	NO.	LIN.FT.	EA.	NO.	LIN.FT.	LIN.FT.	TONS	SQ.YDS.	LUMP SUM
SUPERSTRUCTURE								19,189	20,783		LUMP SUM			27	2,258.63				506.55			LUMP SUM
END BENT 1										59.0		6,468				10	10	675		530	590	
BENT 1	154.00	62.00	32.00			4				62.7		30,369	5,970									
BENT 2	108.00	80.00	32.00			4				66.7		28,337	5,255									
END BENT 2										59.5		6,489				13	13	750		515	570	
TOTAL	262.00	142.00	64.00	1	1	8	1	19,189	20,783	247.9	LUMP SUM	71,663	11,225	27	2,258.63	23	23	1,425	506 . 55	1,045	1,160	LUMP SUM

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DRAWN BY :	M.K. BEARD	DATE : 9/20/16
CHECKED BY :	H. T. BARBOUR	DATE : 3/8/17
DESIGN ENGINEER	OF RECORD : H.A. LOCKLEAR	DATE : 6/2017

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.

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.

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.

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

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 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.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR PLACING LOAD ON STRUCTURE MEMBERS. SEE SPECIAL PROVISIONS.

FOR EMBEDDED CLIPS FOR PRESTRESSED CONCRETE GIRDERS. SEE SPECIAL PROVISIONS.

HYDRAULIC

DESIGN DISCHARGE FREQUENCY OF DESIGN FLOOD DESIGN HIGH WATER ELEVATION DRAINAGE AREA BASE DISCHARGE (0100) BASE HIGH WATER ELEVATION

OVERTOPPING

OVERTOPPING DISCHARGE FREQUENCY OF OVERTOPPING FLOOD OVERTOPPING FLOOD ELEVATION

LIC DA	ΑΤΑ
LOOD VATION	= 1,900 C.F.S. = 50 YRS. = 861.8 = 2.4 SQ.MI.
TION	= 2,230 C.F.S. = 862.1
PING D	ΑΤΑ
ING FLOOD VATION SAG @ STA.	= 2,960+ C.F.S. = 500+ YRS. = 882.0 477+34.84 -L-

	PROJE	CT NO. FORS ON: 47	<u>U-</u> YTH 73+70	<u>2579</u> co	C UNTY -L-			
Docusigned by C. Continue Marshall G. Mulle, Jr. 649D6EBA3B405	depa G on bet	STATE RTMENT FOR LOWER WINST(WEEN S (L	OF NORTH CAR OF TRAI RALEIGH BRIDGE Y MILL ON-SALE R 2381 EFT LA	NSPORTA NSPORTA OVER CREEK M BELT AND US	TION NG WAY 158			
	REVISIONS SHEET N							
OCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	TOTAL			
SIGNATURES COMPLETED	2		4		SHEETS 33			

STR.#3