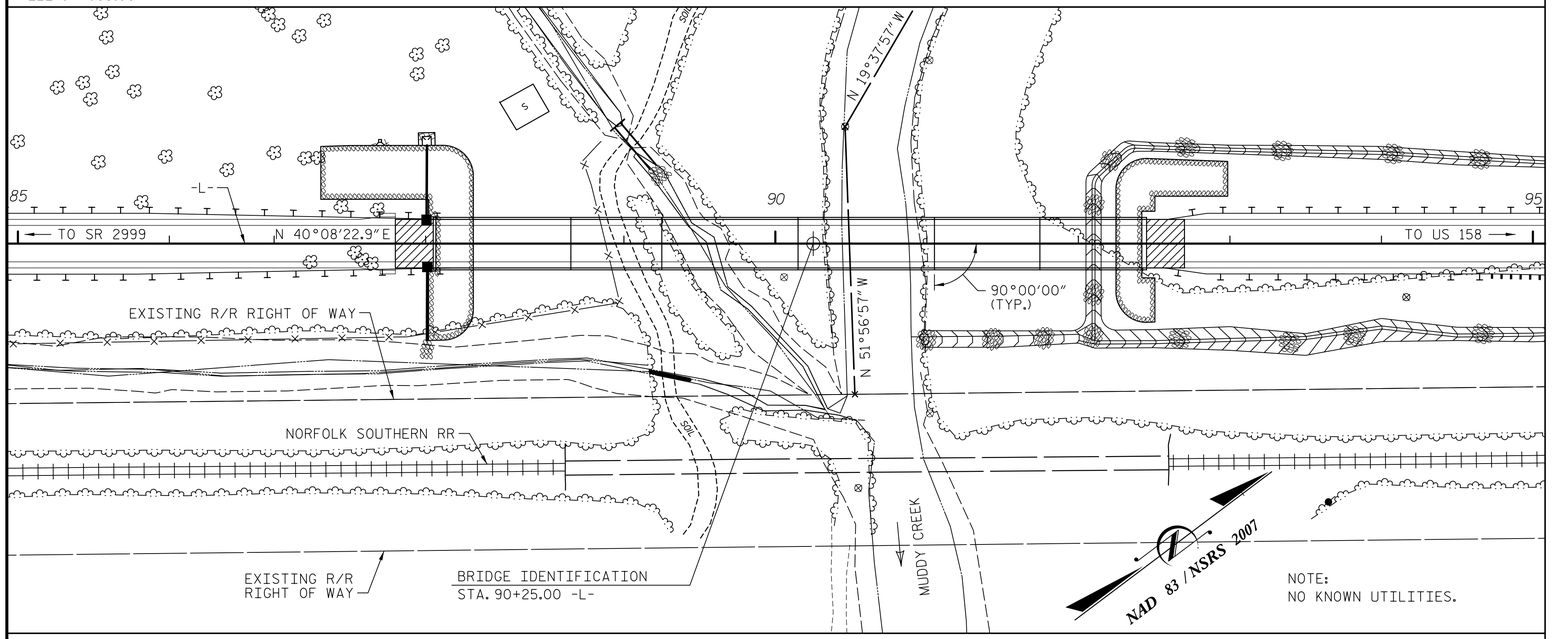
BENCH MARK: BM-7 RAILROAD SPIKE IN BASE OF 18"ELM TREE,
228.64' LEFT OF STA. 92+06.11 -L-
COORDINATES: N 827892 E 1599239
ELEV. = 693.90



LOCATION SKETCH

NOTES:

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

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.

THE 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.

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 STAYING FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

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 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 PLACING LOAD ON STRUCTURE MEMBERS, SEE SPECIAL PROVISIONS.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

TOTAL BILL OF MATERIAL

	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	3'-6"Ø DRILLED PIERS IN SOIL	3'-6"Ø DRILLED PIERS NOT IN SOIL	PERMANENT STEEL CASING FOR 3'-6"Ø DRILLED PIER	SPT TESTING	SID INSPECTION	CSL TESTING	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	54" PRESTRESSED CONCRETE GIRDERS		HP 12x53 STEEL PILES		TWO BAR METAL RAIL	1'-2"x 2'-6" CONCRETE PARAPET	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	EXPANSION JOINT SEALS
	SQ. FT.	SQ. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EA.	EA.	EA.	CU. YD.	LUMP SUM	LBS.	LBS.	NO.	LIN. FT.	NO.	LIN. FT.	LIN. FT.	LIN. FT.	TONS	SQ. YD.	LUMP SUM	LUMP SUM
SUPERSTRUCTURE	16217	14956								LUMP SUM			24	1856.7			962.8	977.8			LUMP SUM	LUMP SUM
END BENT 1									29.3		4586				6	210			952	1058		
BENT 1			46.0	14.0					25.3		16474	1865										
BENT 2			45.0	13.0					25.5		16347	1841										
BENT 3			52.0	16.0	26.6				24.7		17324	1983										
BENT 4			41.0	13.0	19.2				24.3		15462	1656										
BENT 5			42.0	11.0					23.3		14944	1561										
END BENT 2									29.2		4586				6	330			565	627		
TOTAL	16217	14956	226.0	67.0	45.8	10	10	5	181.6	LUMP SUM	89723	8906	24	1856.7	12	540	962.8	977.8	1517	1685	LUMP SUM	LUMP SUM

PROJECT NO. U-2707

FORSYTH COUNTY

STATION: 90+25.00 -L-

SHEET 3 OF 3 BRIDGE NO. 656

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NORTH CAROLINA PROFESSIONAL SEAL 030474 ENGINEER JOHN C. MORRISON
DocuSigned by: John C. Morrison
3/2/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE ON SR 3000
(IDOLS ROAD) OVER MUDDY CREEK
BETWEEN SR 2999 AND US 158

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-03
						TOTAL SHEETS 86

DRAWN BY : KHC DATE : 10/2015
CHECKED BY : JCM DATE : 10/2015

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

USER: Kyle.Compton
DGN: \\GRALTP001.nuaecomnet.com\Data\Projects\60446280\400_Tech\Usr\450_NCDOT_Std_Tech_Design_Files\Structures\Bridge 656\Cads\400_D05_U2707_SMU_S03_0003.dgn
DATE: 3/2/2016
TIME: 6:41:58 AM