BM 1: RAILROAD SPIKE SET IN 16" PINE, 53' LT OF -L- STA. 13+28.90, ELEV. 26.78', NAVD 88.

LOCATION SKETCH

HYDRAULIC DATA

DESIGN DISCHARGE	=	600 C.F.S.
FREQUENCY OF DESIGN FLOOD	=	25 YR.
DESIGN HIGH WATER ELEVATION	=	26.4'
DRAINAGE AREA	=	4.2 SQ. MI.
BASE DISCHARGE (Q100)	=	900 C.F.S.
BASE HIGH WATER ELEVATION	=	27.3'

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	=	- C.F.S.
FREQUENCY OF OVERTOPPING FLOOD	=	- YR.
OVERTOPPING FLOOD ELEVATION	=	28.7'

RT. EOP @ STA. 15+21.41 -L-

NOTES:

ASSUMED LIVE LOAD = HS 93 OR ALTERNATE LOADING.

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

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THE EXISTING STRUCTURE CONSISTING OF 2 SPANS @ 17'-8" WITH A CLEAR ROADWAY WIDTH OF 24.0', AN ASPHALT WEARING SURFACE ON REINFORCED CONCRETE FLOOR ON TIMBER JOISTS SUPPORTED BY TIMBER CAP WITH TIMBER PILES AND LOCATED AT THE SAME LOCATION AS THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, 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 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 DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

ASPHALT WEARING SURFACE IS INCLUDED IN ROADWAY QUANTITY ON ROADWAY PLANS.

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

THE MATERIAL SHOWN IN THE HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 20 FT EACH SIDE OF CENTERLINE 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.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

	REMOVAL OF EXISTING STRUCTURE	PDA TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	16" PRESTRESSED CONCRETE PILES		PILE REDRIVES	VERTICAL CONCRETE BARRIER RAIL	RIP RAP CLASS II (3'-0" THICK)	ELASTOMERIC BEARINGS	3'-0" X 1'-9" PRESTRESSED CONCRETE CORED SLABS	
	LUMP SUM	EA.	LUMP SUM		LUMP SUM	LBS.	NO.	LIN.FT.	EA.	LIN.FT.	TONS	LUMP SUM	NO.	LIN.FT.
SUPERSTRUCTURE					LUMP SUM					110.25		LUMP SUM	11	605
END BENT 1			LUMP SUM	26.3		2977	7	350	7		29			
END BENT 2			LUMP SUM	26.3		2977	7	350	7		29			
TOTAL	LUMP SUM	2	LUMP SUM	52.6	LUMP SUM	5954	14	700	14	110.25	58	LUMP SUM	11	605

PROJECT NO. 17BP.2.R.54

BEAUFORT COUNTY

STATION: 13+13.50 -L-

SHEET 3 OF 3

NORTH CAROLINA PROFESSIONAL SEAL 22005 ENGINEER A. KEITH PASCHAL 9-19-14

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER FORK SWAMP ON SR 1530 BETWEEN SR 1532 & SR 1528

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			14

DRAWN BY : S. STRICKLAND DATE : 4/14
CHECKED BY : P. N. HOLDER DATE : 4/14
DESIGN ENGINEER OF RECORD: A. K. PASCHAL DATE : 4/14

19-SEP-2014 11:18
S:\DPG1\Division2\17BP.2.R.54\Final Plans\17BP.2.R.54_SD_Complete_CS.dgn
kpaschal