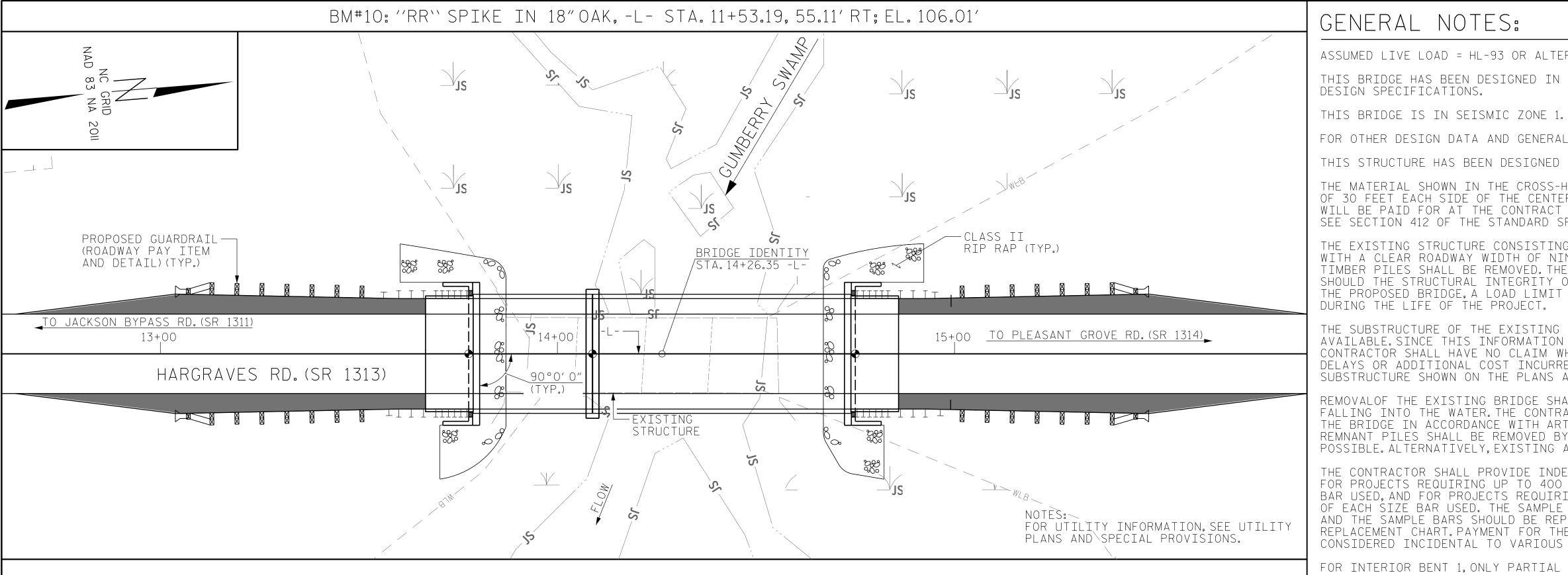
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LOCATION SKETCH

					TOTAL	_ BILl	_ OF MA	TERIAL							
	REMOVAL OF EXISTING STRUCTURE	ASBESTOS ASSESMENT	PDA TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	CLASS A Concrete	BRIDGE APPROACH SLABS	REINFORCING STEEL	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 GALVANIZED STEEL PILES	HP Stei	12 X 53 El PILES	GAL	14 X 73 VANIZED El PILES	PILE REDRIVES	VERTICAL CONCRETE BARRIER RAIL
	LUMP SUM	LUMP SUM	EA.	LUMP SUM	CU.YDS.	LUMP SUM	LBS.	EA.	EA.	No.	LIN.FT.	No.	LIN.FT.	EA.	LIN.FT.
SUPERSTRUCTURE															190.5
END BENT No.1					13.0		1965	5		5	400			5	
BENT No.1					10.8		2090		7			7	665	7	
END BENT No.2					13.2		1965	5		5	425			5	
TOTAL	LUMP SUM	LUMP SUM	2	LUMP SUM	37.0	LUMP SUM	6020	10	7	10	825	7	665	17	190.5

	RIP RAP CLASS II (2'-O") THICK	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	PRES CO	D″X 1-9″ STRESSED NCRETE ED SLAB	3'-0"X 2-0" PRESTRESSED CONCRETE CORED SLAB		FIBER OPTIC CONDUIT SYSTEM	
	TONS.	SQ.YDS.	LUMP SUM	No.	LIN.FT.	No.	LIN.FT.	LIN.FT.	
SUPERSTRUCTURE			LUMP SUM	10	300	10	650	186	
END BENT No.1	65	72							
BENT No.1									
END BENT No.2	62	69							
TOTAL	127	141	LUMP SUM	10	300	10	650	186	

DIEGO A. AGUIRRE _ DATE : <u>01/2020</u> DRAWN BY : ____ FIDEL L.FLORES DATE : <u>01/2020</u> CHECKED BY : _ DESIGN ENGINEER OF RECORD: _____JACOB H.DUKE 01/2020

CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

PROVISIONS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR FIBER OPTIC CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.

HYDRAUL

DESIGN DISCHARG FREQUENCY OF DES DESIGN HIGH WAT DRAINAGE AREA BASE DISCHARGE BASE HIGH WATER

FOUNDATION NOTES:

1. FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

- 2. PILES AT END BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 65 TONS PER PILE. 3. PILES AT BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 120 TONS PER PILE.
- 4. PILES AT END BENT NO.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 95 TONS PER PILE.
- 5. DRIVE PILES AT END BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 110 TONS PER PILE. 6. DRIVE PILES BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 205 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR SCOUR.
- 7. DRIVE PILES AT END BENT NO.2 TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.
- 8. INSTALL PILES AT END BENT NO.1 AND END BENT NO.2 TO A TIP ELEVATION NO HIGHER THAN 68.0 FT. 9. THE SCOUR CRITICAL ELEVATION FOR BENT NO.1 IS ELEVATION 90.0 FT. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
- 10. TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING, OR REDRIVING MAY BE REQUIRED. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- 11. PILES AT ALL BENTS MAY REQUIRE PILE REDRIVES. IF ENGINEER DETERMINES TO USE PILE REDRIVES THE TIME TO WAIT SHOULD BE A MINIMUM OF 18 HOURS.

IC DATA		OVERTOPPING FLOOD DATA								
GE 600 ESIGN FLOOD 25 TER ELEVATION 102.1	YRS. FREQUE	OVERTOPPING DISCHARGE 2525 CFS FREQUENCY OF OVERTOPPING FLOOD 500+ YRS. OVERTOPPING FLOOD ELEVATION 105.4'								
(Q100) 950 R ELEVATION 102.9	CFS SAG ST	ΓΑ.		16+90 -L-						
SAMPLE BAR REPLACEMENT SIZE LENGTH #3 6'-2" #4 7'-4" #5 8'-6" #6 9'-8" #7 10'-10" #8 12'-0" #9 13'-2"	Jacoh Horitor SS 100	NORT STATION	NO. BF HAMPTON 14+26. 2 STATE OF NORTH CARO MENT OF TRAN RALEIGH	COUNTY 35 -L-						
<pre>#10 14'-6" #11 15'-10" NOTE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND fy = 60ksi. DOCUMENT NOT CONSIDERED FINAL UNLESS ALL</pre>	KISINGER CAMPO & ASSOCIATES	GENERAL DRAWING FOR BRIDGE ON SR 1313 OVE GUMBERRY SWAMP BETWEEN BLACKWELL-STEPHENSON RD & NC HWY 186 REVISIONS SHEET NO. BY: DATE: NO. BY: DATE: SHEET 1 3 JUNE								

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE "STANDARD NOTES" SHEET.

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

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1 SHALL BE EXCAVATED FOR A DISTANCE OF 30 FEET EACH SIDE OF THE 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.

THE EXISTING STRUCTURE CONSISTING OF FOUR SPANS (1 @ 17'-6", 1 @ 16'-0", 1 @ 17'-8", 1 @ 16'-8"), WITH A CLEAR ROADWAY WIDTH OF NINETEEN FEET, HAVING A TIMBER DECK ON TIMBER CAPS AND TIMBER PILES SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING THE CONSTRUCTION OF THE PROPOSED BRIDGE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS FOUND NECESSARY

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.

REMOVALOF 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.EXISTING AND REMNANT PILES SHALL BE REMOVED BY PULLING THE PILES OUT OF THE GROUND COMPLETELY, IF POSSIBLE.ALTERNATIVELY, EXISTING AND REMNANT PILES SHALL BE REMOVED/CUT TO THE MUDLINE.

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 SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT AND THE SAMPLE BARS SHOULD BE REPLACED BY SPLICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART.PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE

FOR INTERIOR BENT 1, ONLY PARTIAL GALVANIZING OF THE PILES IS REQUIRED. SEE INTERIOR BENT SHEET(S) FOR REQUIRED GALVANIZING LENGTHS. PAYMENT FOR PARTIALLY GALVANIZED PILES WILL BE MADE UNDER THE CONTRACT UNTI PRICE FOR GALVANIZED STEEL PILES.

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES. SEE SPECIAL