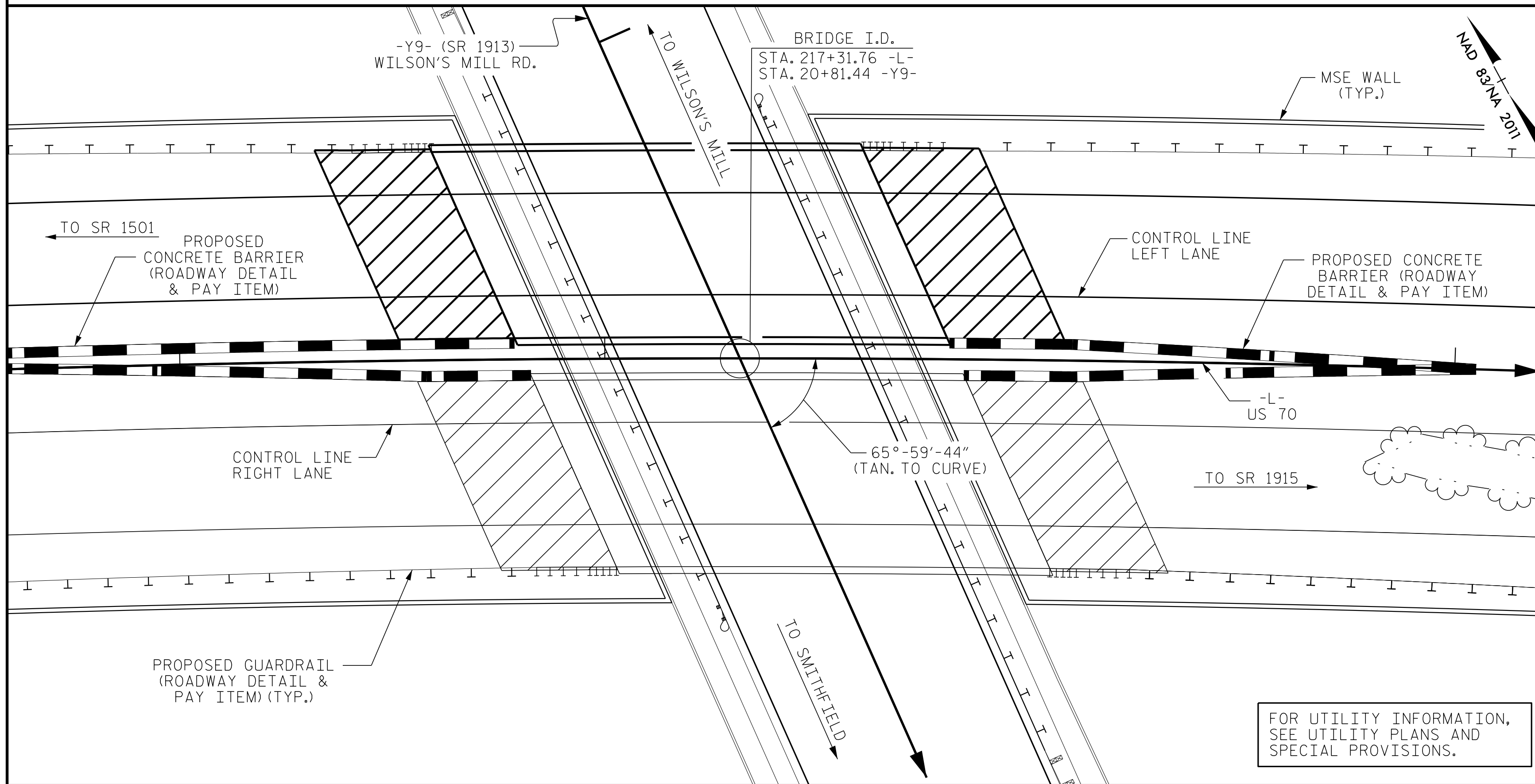


BM #14 - BENCH TIE NAIL SET IN 16" PINE, 205.18' LT OF -L- STA. 236+54.97, ELEV 196.34



NOTES:

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

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.

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.

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 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 CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

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"
#10	14'-6"
#11	15'-10"

NOTE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND $f_y = 60\text{ksi}$.

TOTAL BILL OF MATERIAL

	PDA TESTING	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	54" PRESTRESSED CONCRETE GIRDERS		PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	HP 12 x 53 STEEL PILES	CONCRETE BARRIER RAIL	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS	FOAM JOINT SEALS	
	EACH	SO. FT.	SO. FT.	CU. YDS.	LUMP SUM	LBS.	No.	LIN. FT.	EACH	No.	LIN. FT.	SO. YDS.	LUMP SUM	LUMP SUM	
SUPERSTRUCTURE		4,497	5,849		LUMP SUM		5	468.13			* 240.27		LUMP SUM	LUMP SUM	
END BENT No. 1				76.7		11,041			20	20	1,245	15			
END BENT No. 2				76.5		11,041			20	20	1,145	15			
TOTAL	1	4,497	5,849	153.2	LUMP SUM	22,082	5	468.13	40	40	2,390	* 240.27	30	LUMP SUM	LUMP SUM

* CONTAINS THE ADDITIONAL LINEAR FEET OF CONCRETE BARRIER RAIL ON APPROACH SLABS

END BENT PAY ITEMS: PDA TESTING, CLASS A CONCRETE, REINFORCING STEEL, PILE DRIVING EQUIPMENT SET UP FOR HP 12 x 53 STEEL PILES AND HP 12 x 53 STEEL PILES, INCLUDE BOTH LEFT LANE END BENT AND RIGHT LANE END BENT QUANTITIES.

PROJECT NO. W-5600
JOHNSTON COUNTY
 STATION: 217+31.76 -L-

SHEET 4 OF 4

ENGINEER OF RECORD:
 3/25/2019

 Gregory M. O'Neil
 WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 Bus: 919 851 8077
 Fax: 919 851 8107
 LICENSE NO. F-0377

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
GENERAL DRAWING
 FOR LEFT LANE BRIDGE
 ON US 70 OVER WILSON'S
 MILL RD. (SR 1913) BETWEEN
 SR 1501 AND SR 1915

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			TOTAL SHEETS
2			4			27

DRAWN BY : D. HODGE DATE : 1/18
 CHECKED BY : B.C. HUNT DATE : 6/18

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

P:\2017\1712101\W-5600\USTO\Structures\DGN\L-over -Y9.dgn (LEFT LANE)_WE I.dgn
 3/20/2019 7:21:54 AM