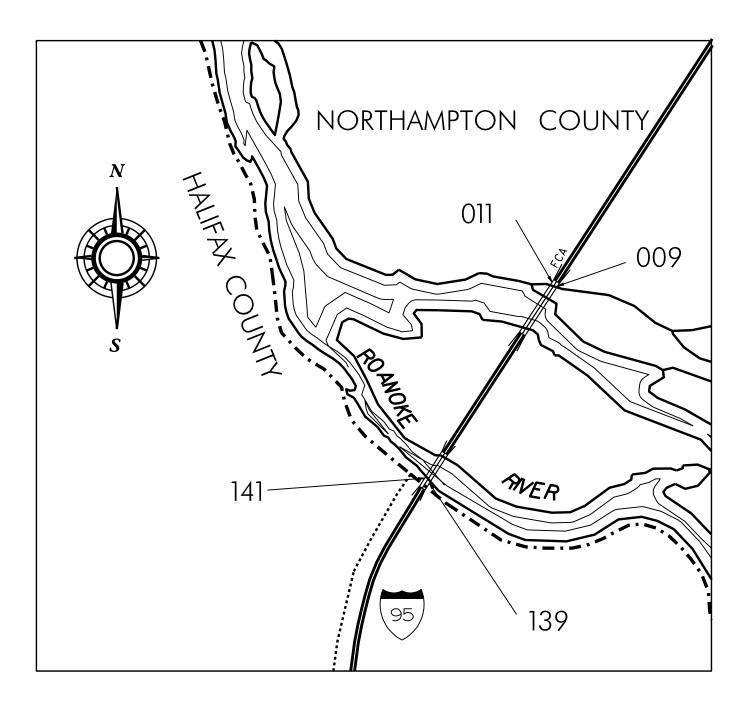


HALIFAX & NORTHAMPTON COUNTIES

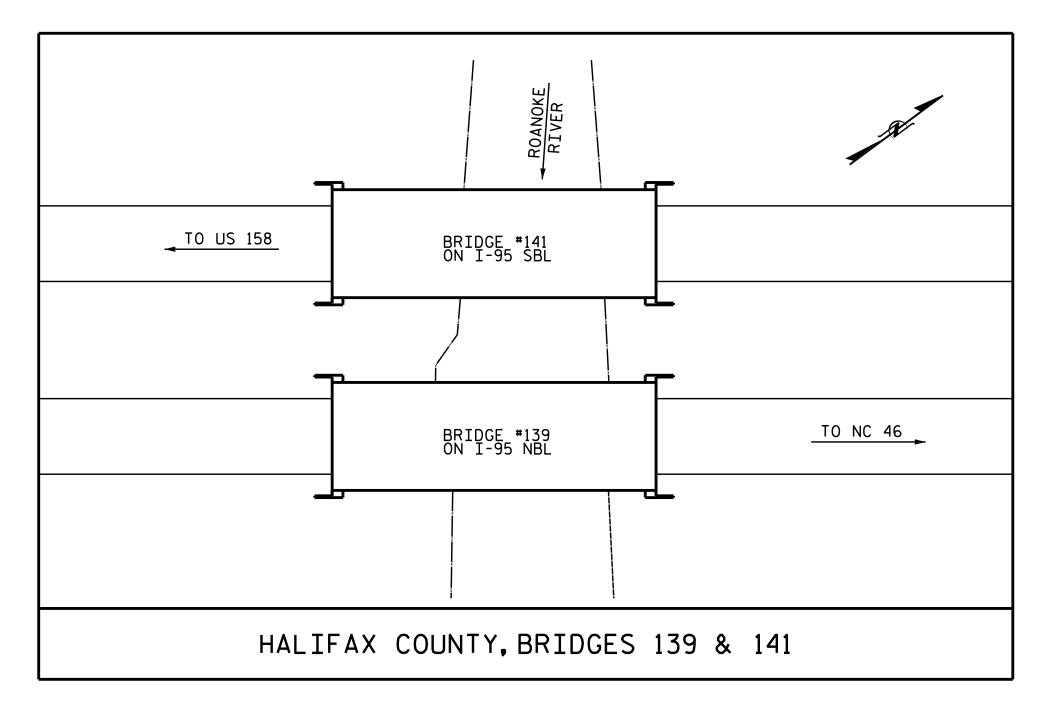
- LOCATION: HALIFAX COUNTY: BRIDGE #139 ON I-95 NBL OVER ROANOKE RIVER BRIDGE #141 ON I-95 SBL OVER ROANOKE RIVER
 - NORTHAMPTON COUNTY: BRIDGE #009 ON I-95 NBL OVER ROANOKE RIVER BRIDGE #011 ON I-95 SBL OVER ROANOKE RIVER
 - TYPE OF WORK: MODULAR JOINTS REPLACEMENT

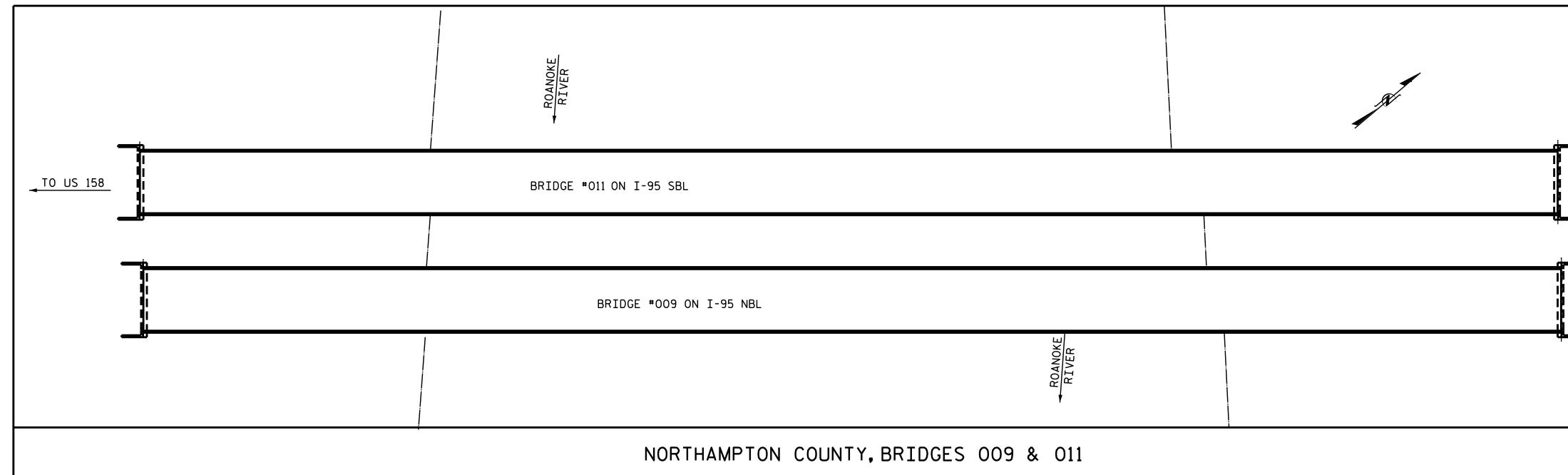


VICINITY MAP : HALIFAX COUNTY - NORTHAMPTON COUNTY

PROJECT LENGTH HALIFAX COUNTY BRIDGE #139 = 0.035 MILES BRIDGE #141 = 0.035 MILES NORTHAMPTON COUNTY	Prepared in the Office of: DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STRUCTURES MANAGEMENT UNIT 1000 BIRCH RIDGE DR. RALEIGH, N.C. 27610	POFESSION SEAL 030024
BRIDGE #009 = 0.215 MILES BRIDGE #011 = 0.215 MILES	KRISTY W. ALFORD, P.E. PROJECT ENGINEER 2018 STANDARD SPECIFICATIONS LETTING DATE: FEBRUARY 25, 2020	ASTER G. ABRAHA, P.E. PROJECT DESIGN ENGINEER

state state project reference no. N.C. I=5839		SHEET NO.	TOTAL SHEETS	
	STATE PROJ. NO. F. A. PROJ. NO.		DESCRI	
530	45.3.1	NHPIM-0095(075)	P.	E.
530	45.3.3 NHPIM-0095(075)		CON	
				/





CHECKED BY :W.C.SMITH/A.G.ABRAHA DATE : 01/2020	DRAWN BY :	S. T. SANDOR/A. Y. GODFREY	DATE : <u>01/2020</u>
	CHECKED BY :_	W.C.SMITH/A.G.ABRAHA	DATE : <u>01/2020</u>

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LOCATION SKETCHES

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION ONLY.CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING THE BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

<u>TO NC 46</u>	
	PROJECT NO. <u>I-5839</u> <u>HALIFAX &</u> <u>NORTHAMPTON</u> COUNTIES BRIDGE NO. <u>139, 141, 009</u> & 011
Bocusigned by: 1/24/2020	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH GENERAL DRAWING LOCATION SKETCHES REVISIONS
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	NO.BY:DATE:S-113TOTAL SHEETS249

		TOTAL	BILL OF	MATER		
COUNTY	BRIDGE NO.	DEPARTMENT FURNISHED STRIP SEALS	VOLUMETRIC MIXER	EPOXY COATED REINFORCING STEEL	GROOVING BRIDGE FLOORS	CONCRETE WORK FOR JOINT REPLACEMENT
		LUMP SUM	LUMP SUM	LBS.	SQ.FT.	SQ.FT.
	139	LUMP SUM	LUMP SUM	3,510.0	420.0	480.0
HALIFAX	141	LUMP SUM	LUMP SUM	3,510.0	420.0	480.0
NORTHAMPTON	009	LUMP SUM	LUMP SUM	5,189.0	630.0	720.0
NOR I HAMF I ON	011	LUMP SUM	LUMP SUM	5,189.0	630.0	720.0
TOTAL		LUMP SUM	LUMP SUM	17,398.0	2,100.0	2,400.0

GENERAL NOTES:

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EXISTING DIMENSIONS ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FINT THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DEMINSIONSOR CONTRACTOR.

EXISTING MODULAR JOINT AND DECK REINFORCING STEEL SHOWN IS BASED ON BEST INFORMATION WORK ON BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW. THE CONTRA SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE TO ARTICLE 402-2 OF THE STANDARD S AND THE PROJECT SPECIAL PROVISIONS.

PRIOR TO BEGINNING WORK, CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE OF TASKS FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIRM CONTRACTOR SHALL DETERMINE EXTENT OF WORKING AREA, STAGING PROCESS, AND INSTALL COVER AS NECESSARY TO MEET THE REQUIREMENTS OF TRAFFIC MANAGEMENT PLANS.

ANY DAMAGE TO EXISTING REINFORCING STEEL, DURING CONTRACTOR'S OPERATIONS, SHALL BE REP DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST.

FOR EPOXY COATED REINFORCING STEEL,SEE 2018 NORTH CAROLINA STANDARD SPECIFICATIONS FOR AND STRUCTURES, SECTION 425.

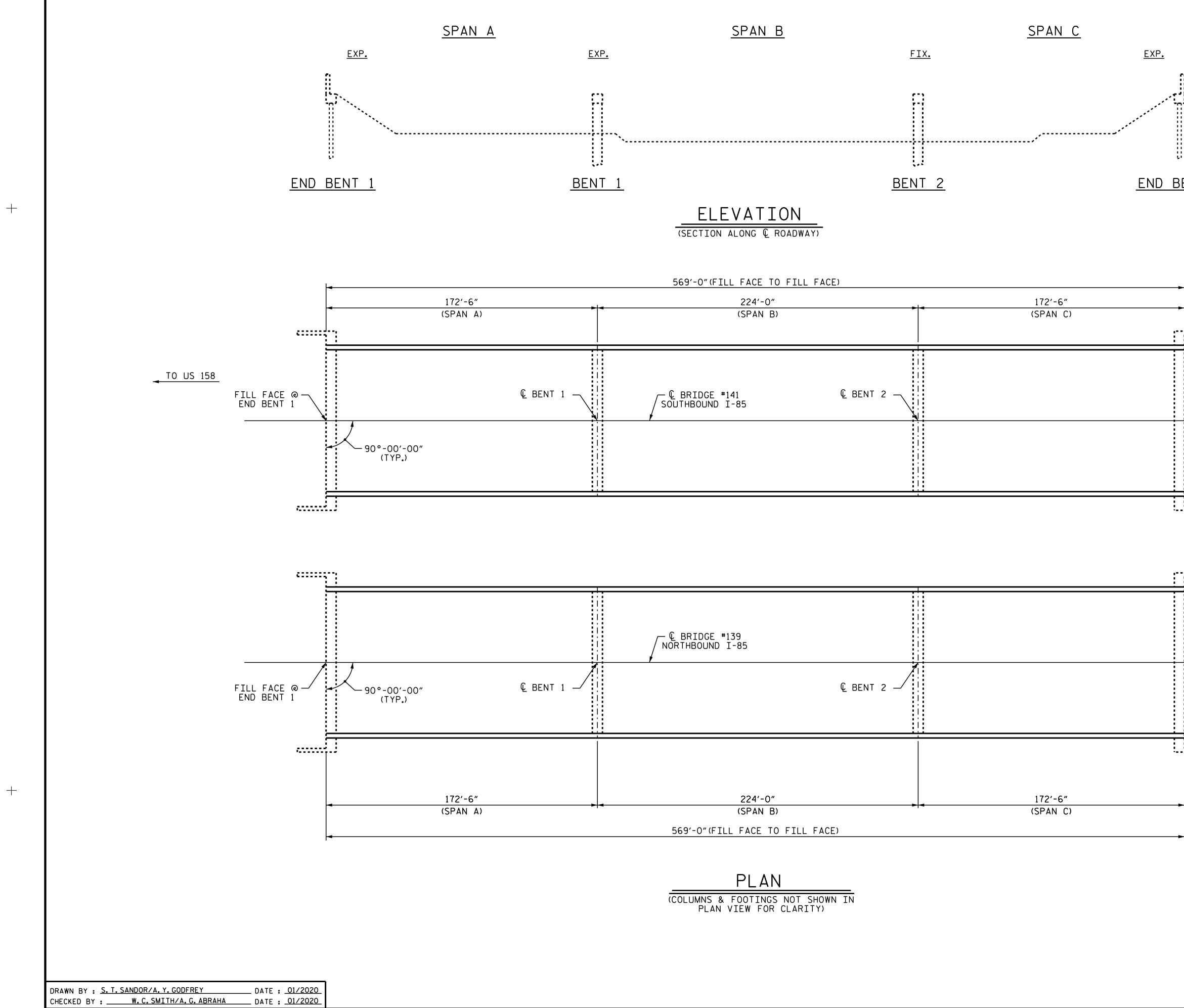
DRAWN BY :	A. Y. GODFREY	DATE : <u>01/2020</u>
CHECKED BY :	A. G. ABRAHA	DATE : <u>01/2020</u>

FIELD VERIFY CONDITIONS	REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES.
ION AVAILABLE. Ractor	FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
SPECIFICATIONS	FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
E SEQUENCE	FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLAN.
RMENTS.	FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
R P ASSEMBLY	FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.
	FOR "CONCRETE WORK FOR JOINT REPLACEMENT", SEE SPECIAL PROVISIONS.
EPAIRED AS	FOR STRIP SEALS, SEE SPECIAL PROVISIONS.
FOR	FOR VOLUMETRIC MIXER, SEE SPECIAL PROVISIONS.

	PROJECT NO. <u>I-5839</u> <u>HALIFAX &</u> <u>NORTHAMPTON</u> COUNTIES BRIDGE NO. <u>139,141,009,</u> & 011
Bocusigned by: USTUR ABURALA DDA094AED5104FD	DEPARTMENT OF TRANSPORTATION RALEIGH GENERAL NOTES & TOTAL BILL OF MATERIAL
1/24/2020	REVISIONS SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY: DATE: NO. BY: DATE: S-2 1 3 SHEETS
FINAL UNLESS ALL SIGNATURES COMPLETED	USSHEETS249

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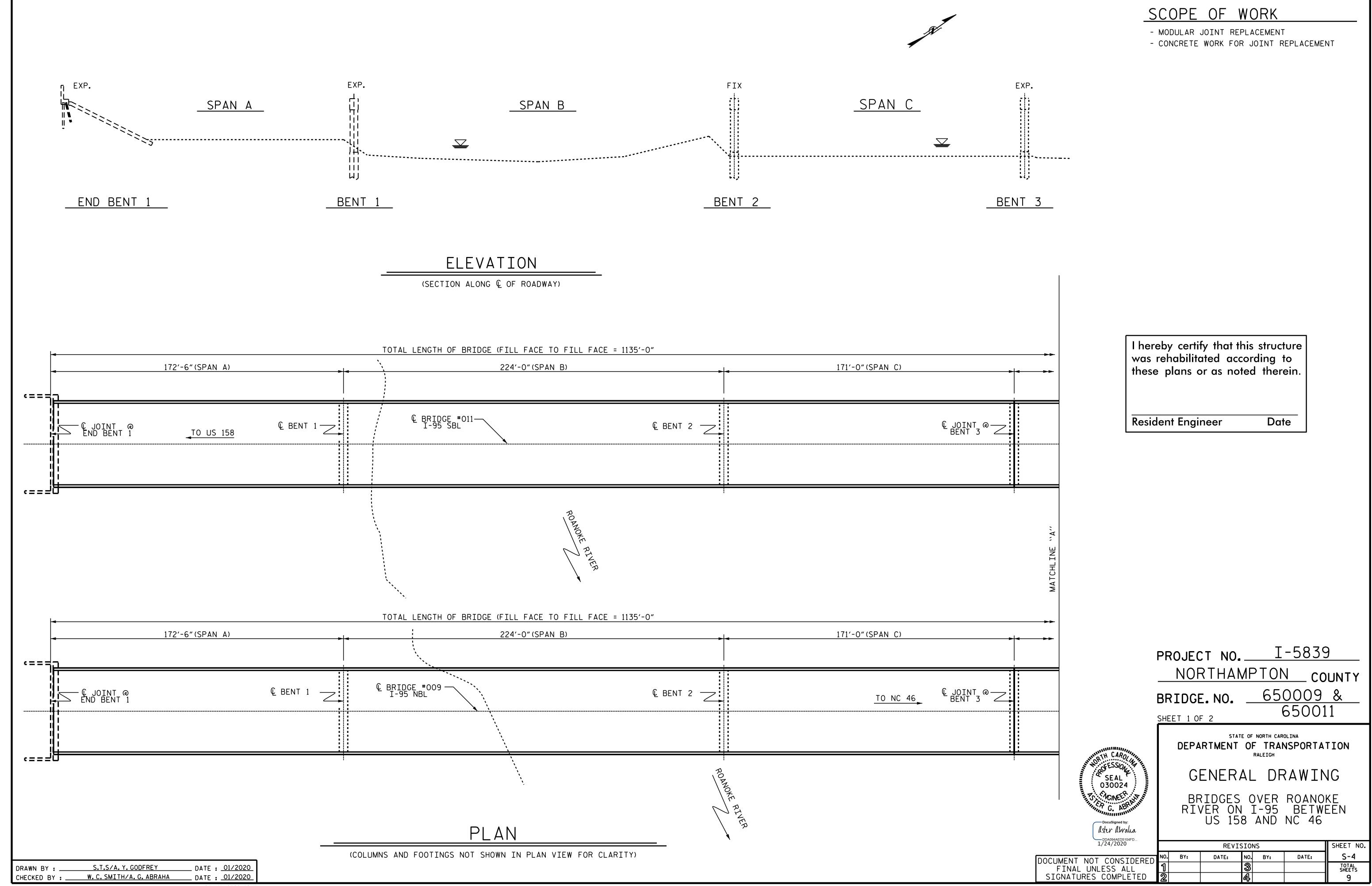
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<u>SF</u>	<u>PAN B</u> <u>FIX.</u>	<u>SPAN C</u> <u>exp</u> .	<u>.</u>	<u>SCOPE OF WORK</u> - MODULAR JOINT REPLACEMENT - CONCRETE WORK FOR JOINT REPLACEMENT
	<u>BENT 2</u> ATION NG & ROADWAY)	<u>END</u>	<u>BENT 2</u>	A
2	ACE TO FILL FACE) 24'-O" PAN B)	172'-6" (SPAN C)		
↓ ↓ SOUTHBOUND I-85	Ç BENT 2		FILL FACE @ END BENT 2	I hereby certify that this structure was rehabilitated according to these plans or as noted therein. Resident Engineer Date
I C BRIDGE #139 NORTHBOUND I-85	5		<u>TO NC 46</u>	
	€ BENT 2		FILL FACE @ END BENT 2	
2	24'-0" PAN B)	172'-6" (SPAN C)		PROJECT NO. <u>I-5839</u> <u>HALIFAX</u> COUNTY BRIDGE No.: <u>410139 &</u> 410141
COLUMNS & FO	ACE TO FILL FACE) PLAN DTINGS NOT SHOWN IN W FOR CLARITY)		Docusigned by: Uster Abraha DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD DDA094AED5104FD	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH GENERAL DRAWING BRIDGES OVER ROANOKE RIVER ON I-95 BETWEEN US 158 & NC 46

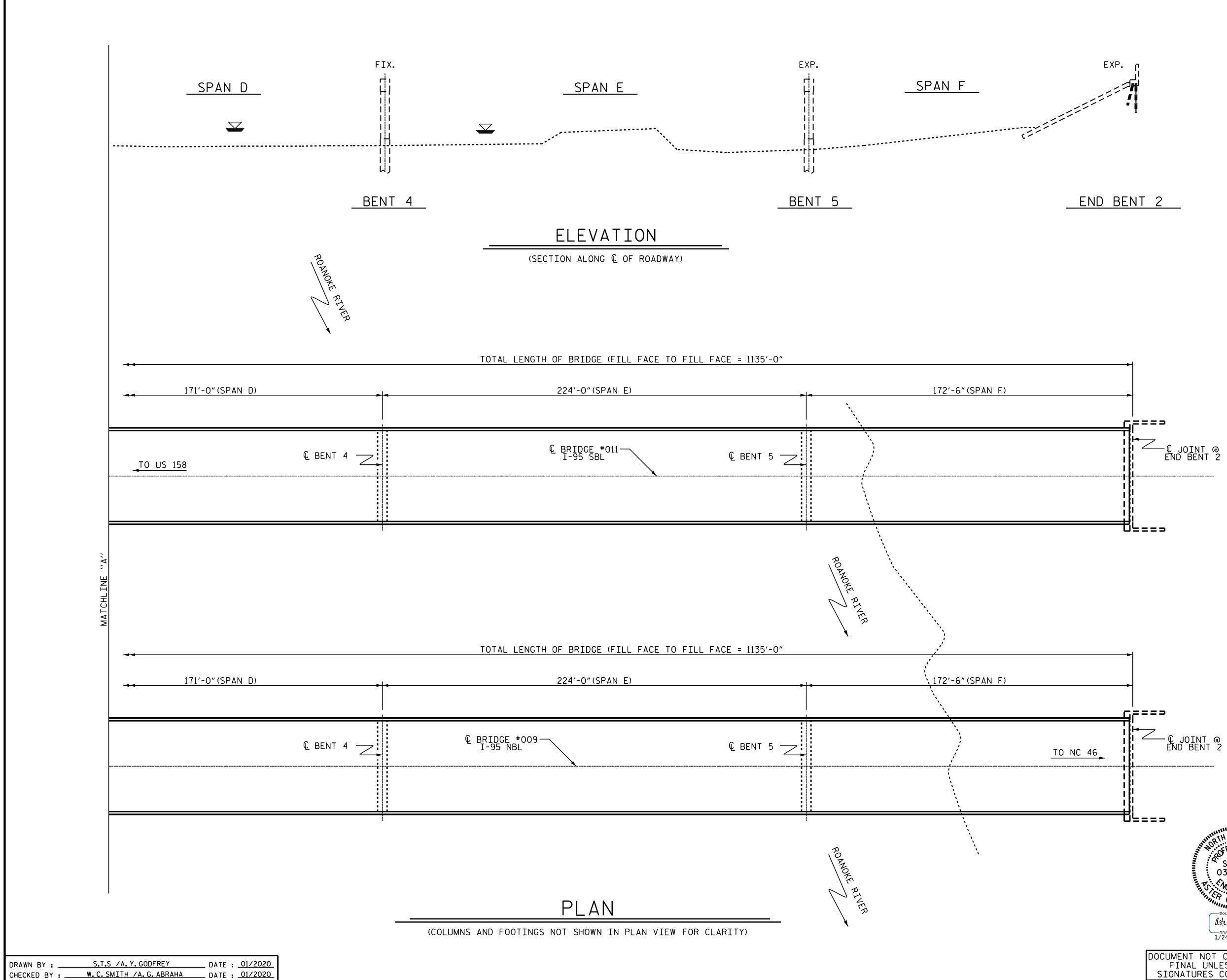
<u>SPAN B</u>	<u>SPAN C</u>	<u>SCOPE OF WORK</u> - MODULAR JOINT REPLACEMENT - CONCRETE WORK FOR JOINT REPLACEMENT
BENT 1		
ELEVATION (SECTION ALONG & ROADWAY) 569'-0" (FILL FACE TO FILL FACE)		
224'-0" (SPAN B)	172'-6" (SPAN C)	
C BRIDGE #141 SOUTHBOUND I-85	FILL F END BI	ACE @ ENT 2 ACE @ ENT 2 ACE @ These plans or as noted therein. Resident Engineer Date
↓ ↓ ↓ NORTHBOUND I-85	<u>TO NC</u>	46
© BENT 2 -	FILL F END BE	ACE @ ENT 2
		PROJECT NO. <u>I-5839</u> <u>HALIFAX</u> COUNTY BRIDGE No.: <u>410139 &</u>
224'-O" (SPAN B) 569'-O" (FILL FACE TO FILL FACE)	172'-6" (SPAN C)	410141
COLUMNS & FOOTINGS NOT SHOWN IN PLAN VIEW FOR CLARITY)	, DOCUM F	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH DEPARTMENT OF TRANSPORTATION REVISIONS SHEET NO. SHEET NO. SHEET NO. SHEET NO. SHEET NO. SHEETS 9



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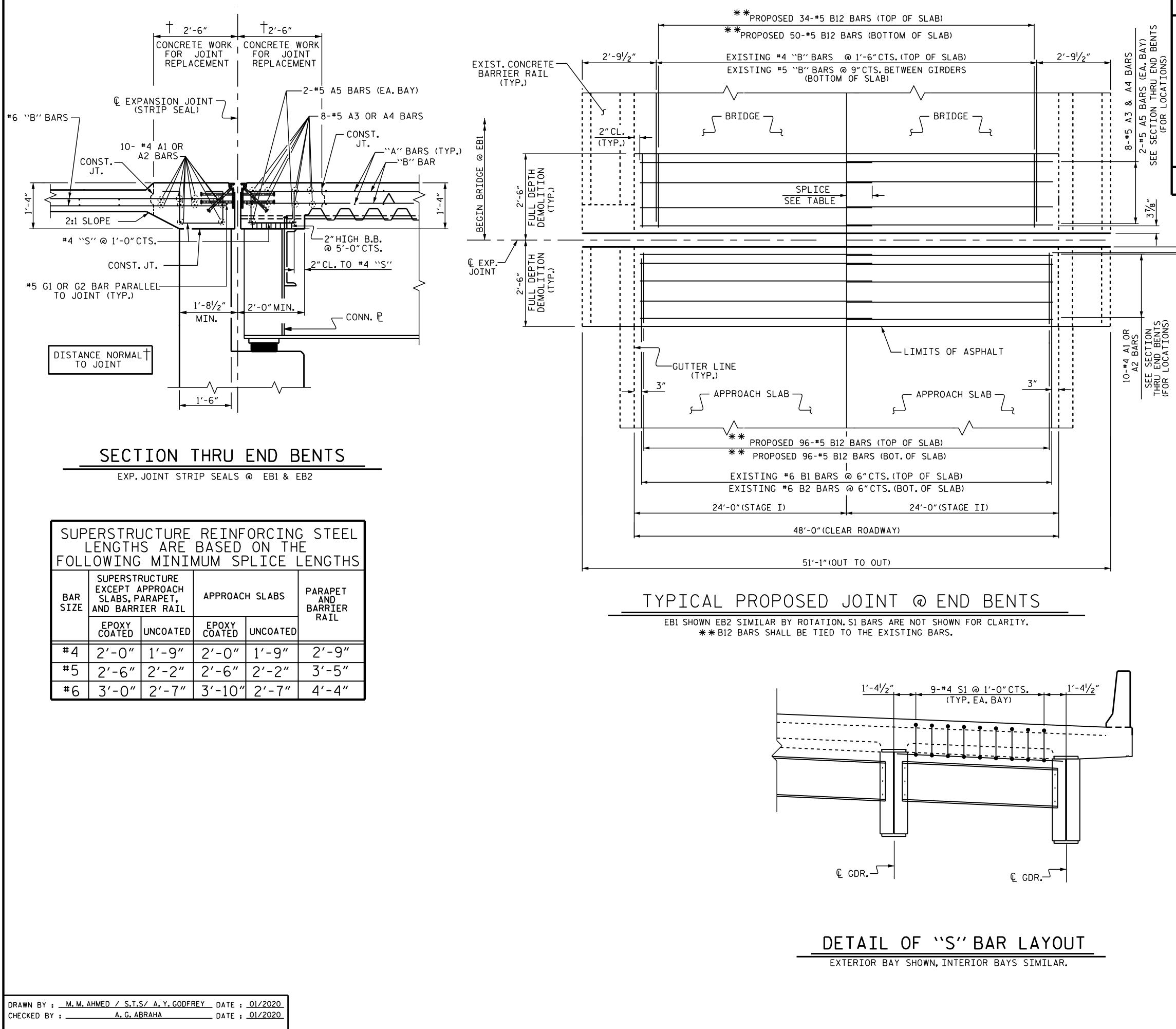
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SCOPE OF WORK

- MODULAR JOINT REPLACEMENT - CONCRETE WORK FOR JOINT REPLACEMENT



	——BAR TYPES——		BILI	_ OF	MA	FERIAL	
		FOR	ONE	JOIN	NT @	END	BENT
				ST	AGE	Ι	
ŝ		BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
0N		∗ A1	10	#4	STR	26'-0"	174
ΙL		∗ A3	8	# 5	STR	26'-4"	220
LOCATIONS)		₩ A5	4	# 5	STR	10'-2"	43
(FOR L		* B12	138	# 5	STR	2'-2"	312
Ц.	1'-2"	* G1	2	#5	STR	26'-0"	54
	ALL BAR DIM. ARE OUT TO OUT	本 01	۷		511	20 0	57
	ALL DAR DIM. ARE OUT TO OUT	* S1	36	#4	1	4'-0"	96
	CONCRETE WORK FOR JOINT REPAIR = 240.0 SQ.FT.	∗ EP0X	Υ COAT	ED REI	[NF.ST	EEL = 8	99 LBS.
ļ		CLASS	AA COM			= 5.2	CU.YDS.
				<u>_STA</u>	<u>GE 1</u>	<u>[]</u>	
L	37/8"	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
5		* A2	10	#4	STR	23'-8"	158
		* A4	8	#5	STR	23'-8"	198
	v ر	∗ A5	4	# 5	STR	10'-2"	43
	BARS BARS	* B12	138	# 5	STR	2'-2"	312
	\mathbf{S}	∗ G2	2	# 5	STR	23'-8"	49
ς) Ω	10						
CONS)	2" CL. TO "B'	* S1	36	#4	1	4'-0"	96
ATIONS)	10 10	∗ EP0X	Υ COAT	ED REI			96 56 LBS.
LOCATIONS)	1 <mark>0</mark> 1	∗ EP0X		ED REI		EEL = 8	

NOTES:

THE ENGINEER WILL REVIEW EXISTING DECK CONDITIONS. THE CONTRACTOR SHALL REMOVE THE CONCRETE WITHIN THE BOUNDARIES AS SHOWN IN THE SECTION ABOVE, OR AS DIRECTED BY THE ENGINEER.

REMOVE BRIDGE DECK CONCRETE TO THE EXTENT NECESSARY. INTRODUCE A PARTIAL DEPTH SAWCUT NOT EXCEEDING 1"IN DEPTH.FOLLOWED BY CONCRETE REMOVAL WITHOUT DAMAGE TO EXISTING REINFORCING STEEL AND EXISTING GIRDERS.

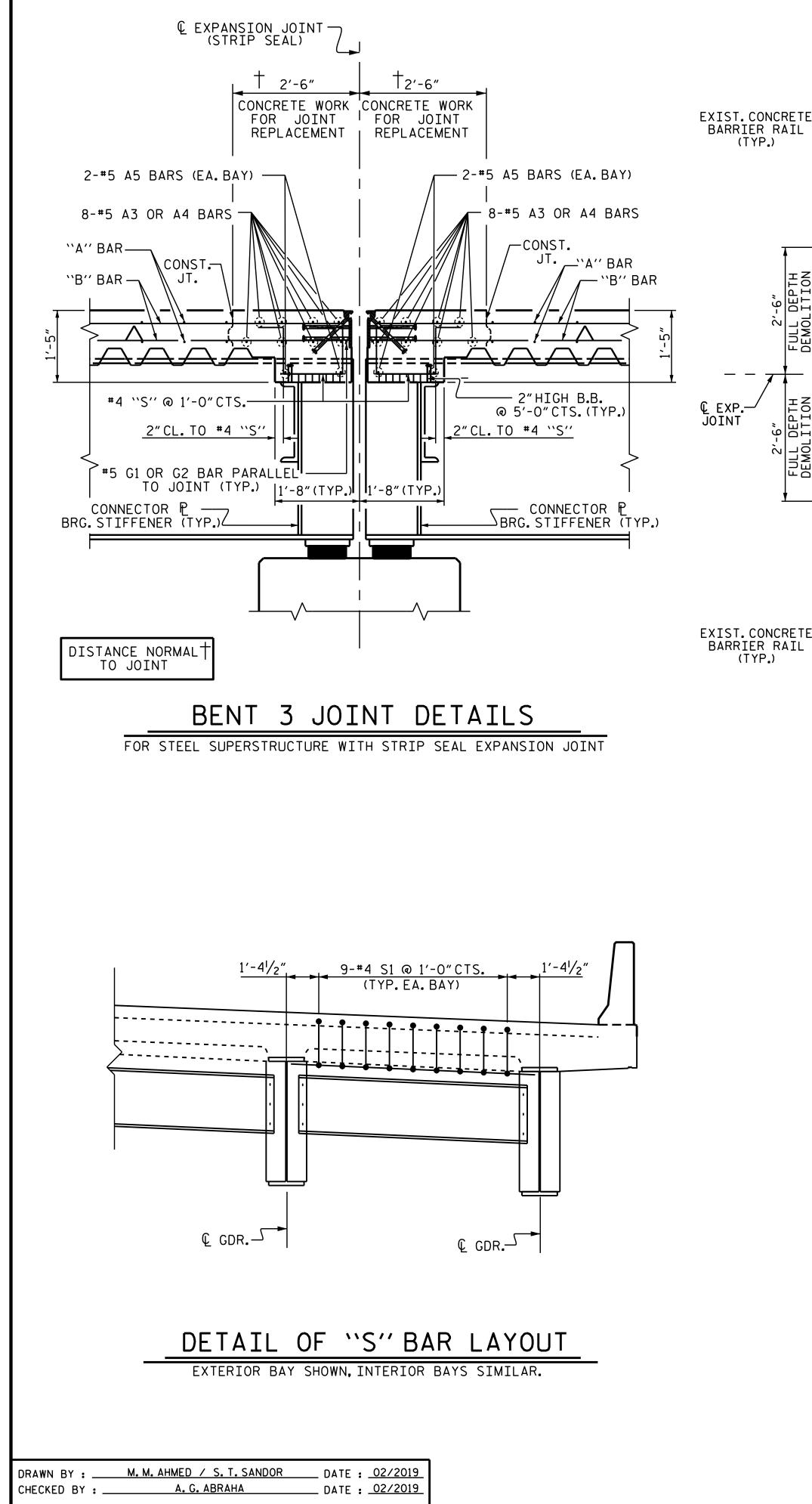
RETAIN BRIDGE DECK REINFORCING STEEL (B-BARS AND PARTIAL A-BARS). STRAIGHTEN AND REPAIR ALL REINFORCING STEEL RETAINED.B12 BARS SHALL BE FIELD CUT TO FIT AS NEEDED.

THE CONTRACTOR SHALL CONSTRUCT THE OPENING FOR THE STRIP SEAL EXPANSION JOINT SEAL. INSTALL THE JOINT AS PER THE MANUFACTURER'S RECOMMENDATIONS.

ALL EXPOSED ENDS OF THE CUT BARS IF ANY SHALL BE COATED WITH EPOXY PRIOR TO THE PROPOSED JOINT INSTALLATION.

I-5839 PROJECT NO. HALIFAX/NORTHAMPTON COUNTY BRIDGE NO. 139, 141, 009 & 011

,							
WITH CAROLANT		DEPA	stat RTMENT	OF	NORTH CARG F TRAN RALEIGH		TION
SEAL O30024	END BENT 1 & 2 MODULAR JOINT						
DocuSigned by: Aster Abralia DDA094AED5104FD	REPLACEMENT						
1/24/2020	REVISIONS SHEET NO.						
OCUMENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-6
FINAL UNLESS ALL				3			TOTAL SHEETS
SIGNATURES COMPLETED	2			4 }			9



	-	* * PROPOSED 34-*5 B12 * * PROPOSED 50-*5 B12 E	BARS (TOP OF SLAB) BARS (BOTTOM OF SLAB)	→	
	2'-9 [!] /2"	EXISTING #5 ``B'' BARS @	@ 1'-6"CTS.(TOP OF SLAB)) 9"CTS.BETWEEN GIRDERS OF SLAB)	2'-9 ¹ /2"	A4 BARS (EA.BAY)
	∑ 2″ CL. (TYP.)	BRIDGE	BRIDGE		8-#5 A3 2-#5 A5 I
(TYP.)		SPLICE SEE TABLE			
(TYP.)					
	2″ CL. (TYP.)	BRIDGE J	BRIDGE 5		A4 BARS (EA. BAY)
	2'-9 ^l /2"	EXISTING #5 ``B'' BARS @ (BOTTOM) ** PROPOSED 34-#5 B12	 @ 1'-6"CTS.(TOP OF SLAB) D 9"CTS.BETWEEN GIRDERS OF SLAB) BARS (TOP OF SLAB)	2'-9 ¹ /2"	8-#5 A3 2-#5 A5 BA
	•	** PROPOSED 50-#5 B12 E 24'-0"(STAGE I)	BARS (BOTTOM OF SLAB) 24'-0" (STAGE II)		
		48'-0" (CLEA	R ROADWAY)	>	
-		51'-1" (001	Γ ΤΟ Ουτ)	-	

TYPICAL PROPOSED JOINT @ BENT 3

SI BARS ARE NOT SHOWN FOR CLARITY. * * B12 BARS SHALL BE TIED TO THE EXISTING BARS.

SUPERSTRUCTURE REINFORCING STEEL LENGTHS ARE BASED ON THE FOLLOWING MINIMUM SPLICE LENGTHS							
BAR SLABS, PARAPET, SIZE AND BARRIER RAIL							
	EPOXY COATED	UNCOATED	D COATED UNCOATED RAIL				
#4	2'-0"	1'-9"	2'-0"	1'-9"	2'-9"		
# 5	2'-6"	2'-2"	2'-6"	2'-2"	3'-5"		
#6	3'-0"	2'-7"	3'-10"	2'-7"	4'-4"		

	—— BAF	R TYPES		BILI	_ OF	MA	TERIAL		
	6″ ►	<mark>⊢6″</mark> ►	FOR	ONE	J0]	[NT	@ BEN	NT 3	
			STAGE I						
נ	Ī		BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
			* A3	16	# 5	STR	26'-4"	439	
	11"	11 ~	* A5	8	# 5	STR	10'-2"	85	
FOR LOCATIONS)		(1)	* B12	84	# 5	STR	2'-2"	190	
-OCA-	<u> </u>		* G1	2	#5	STR	26'-0"	54	
 }~		1'-2"							
, , , , , , , , , , , , , , , , , , ,	ALL BAR DI	M. ARE OUT TO OUT	* S1	36	#4	1	4'-0"	96	
				*EPOXY COATED REINF.STEEL = 864 LBS.					
	CONCRETE WO	R = 240.0 SQ. FT.	CLASS	AA COM	NCRETE		= 5.2	CU.YDS.	
			1		STA	GE I	II		
			BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
			* A4	16	# 5	STR	23'-8″	395	
			* A5	8	# 5	STR	10'-2"	85	
	<u>↓</u>		* B12	84	# 5	STR	2'-2"	190	
	_			07	5	511		150	
	P.) ARS		* G2	2	# 5	STR	23'-8″	49	
	, BAF								
	B*1		* S1	36	#4	1	4'-0"	96	
			*EPOX	Υ COAT	ED REI	ENF.ST	EEL = 8	815 LBS.	
n	10		CLASS	AA CON	NCRETE		= 5.2	CU.YDS.	

NOTES:

THE ENGINEER WILL REVIEW EXISTING DECK CONDITIONS. THE CONTRACTOR SHALL REMOVE THE CONCRETE WITHIN THE BOUNDARIES AS SHOWN IN THE SECTION ABOVE, OR AS DIRECTED BY THE ENGINEER.

REMOVE BRIDGE DECK CONCRETE TO THE EXTENT NECESSARY.INTRODUCE A PARTIAL DEPTH SAWCUT NOT EXCEEDING 1"IN DEPTH.FOLLOWED BY CONCRETE REMOVAL WITHOUT DAMAGE TO EXISTING REINFORCING STEEL AND EXISTING GIRDERS.

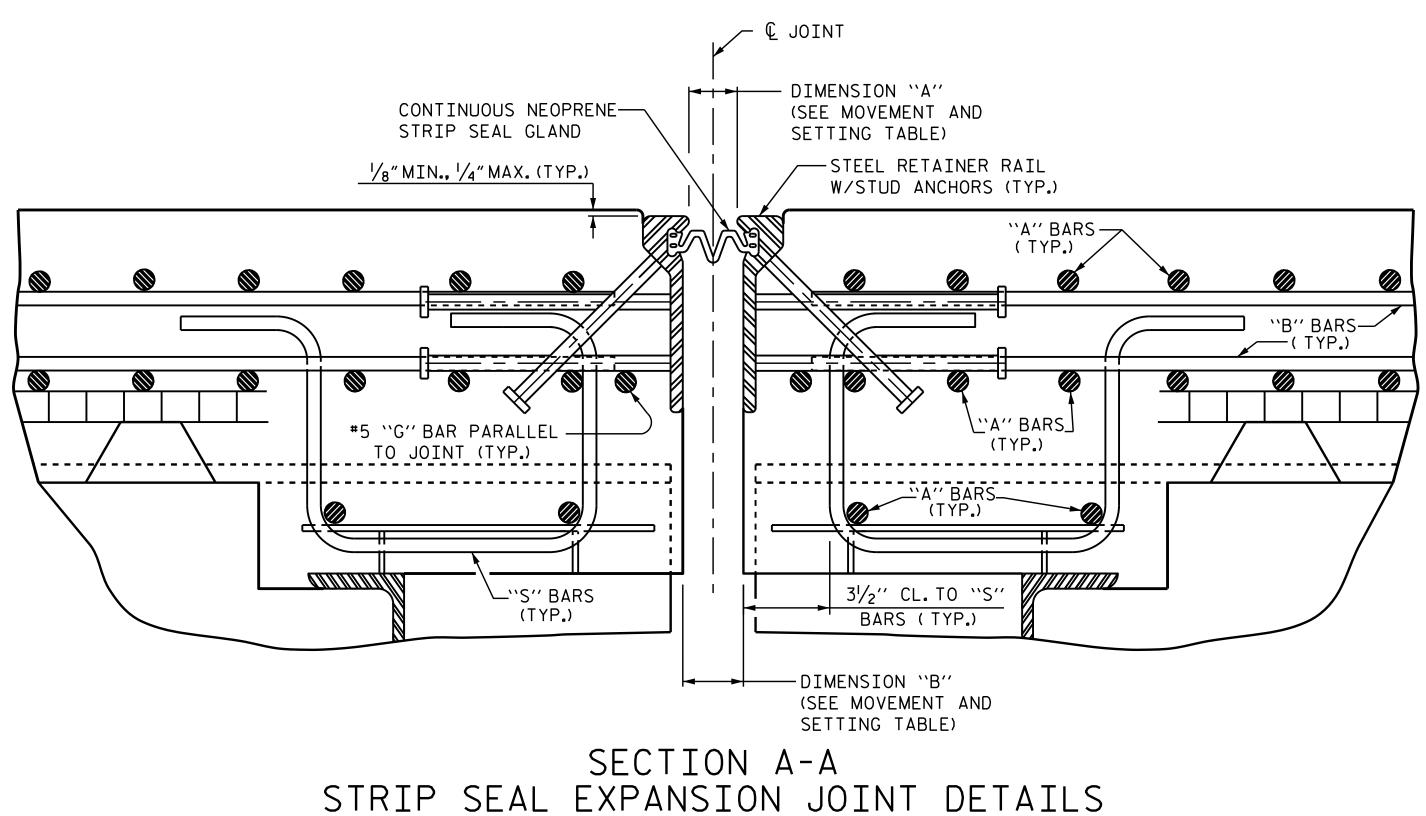
RETAIN BRIDGE DECK REINFORCING STEEL (B-BARS AND PARTIAL A-BARS). STRAIGHTEN AND REPAIR ALL REINFORCING STEEL RETAINED. B12 BARS SHALL BE FIELD CUT TO FIT AS NEEDED.

THE CONTRACTOR SHALL CONSTRUCT THE OPENING FOR THE STRIP SEAL EXPANSION JOINT SEAL.INSTALL THE JOINT AS PER THE MANUFACTURER'S RECOMMENDATIONS.

ALL EXPOSED ENDS OF THE CUT BARS IF ANY SHALL BE COATED WITH EPOXY PRIOR TO THE PROPOSED JOINT INSTALLATION.

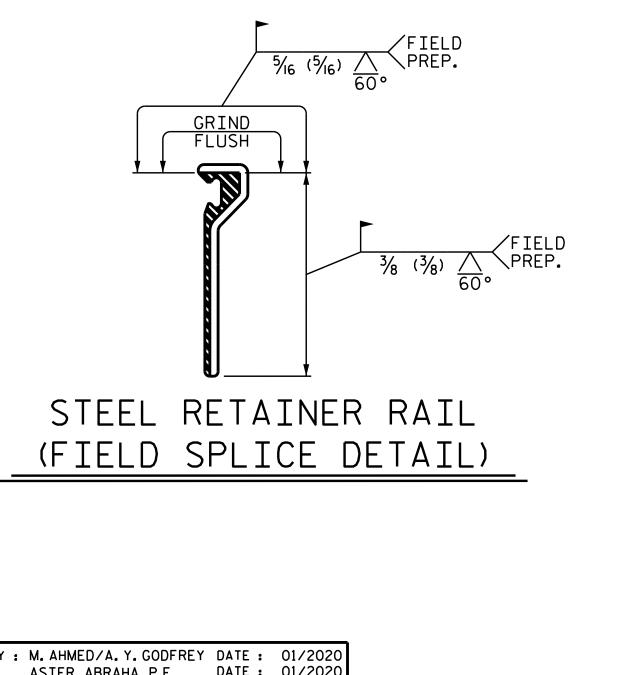
PROJECT NO.I-5839HALIFAX/NORTHAMPTON COUNTYBRIDGE NO.009 & 011

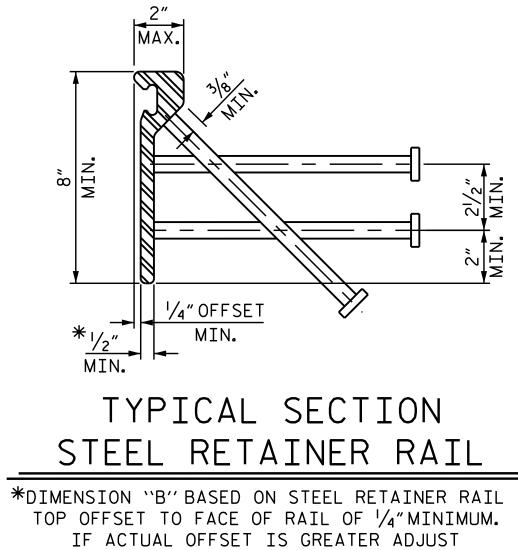
NUMBERSION	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH							
SEAL 030024 HTS: NONE: P. HT. DocuSigned by: Aster Abraha	BENT 3 MODULAR JOINT REPLACEMENT							
DDA094AED5104FD 1/24/2020	REVISIONS SHEET NO.							
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S-7			
FINAL UNLESS ALL	1		3		TOTAL SHEETS			
SIGNATURES COMPLETED	2		A		9			



SECTION NORMAL TO JOINT -- STEEL SUPERSTRUCTURE

	MOVEMENT AND SETTING TABLE								
LOCATION	SKEW	TOTAL	DIMENSION ``A''			DIMENSION ``B''			
	ANGLE MOVEMENT (ALONG & RDWY)					PERPENDICULAR JOINT OPENING AT 45° F	PERPENDICULAR JOINT OPENING AT 60° F	PERPENDICULAR JOINT OPENING AT 90° F	
END BENT 1	90°-00'-00″	3 ¹ /16″	3″	2% ₆ ″	15⁄/8″	31/2″	3 ¹ /16″	2 ¹ /8″	
BENT 3	90°-00'-00″	2 ¹¹ / ₁₆ ″	2¾"	2 ⁵ ⁄16″	1%6″	31/4"	2 ¹³ ⁄16″	2 ¹ / ₁₆ ″	
END BENT 2	90°-00′-00″	3 ¹ ⁄16″	3"	2% ₁₆ "	15⁄8″	3 ¹ /2"	3 ¹ / ₁₆ "	21/8″	





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DRAWN BY : MAA CHECKED BY : BNB	6/17 6/17	

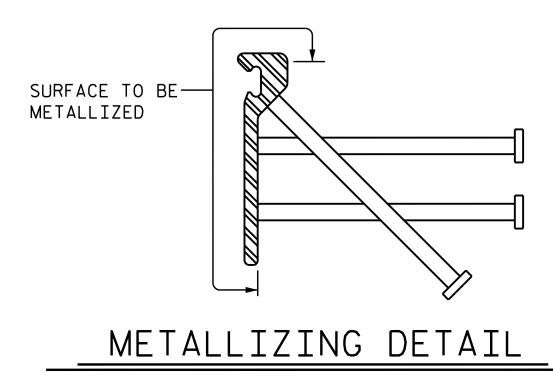
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- 1. INSTALL THE STRIP SEAL EXPANSION JOINT AS RECOMME BY THE STRIP SEAL EXPANSION JOINT MANUFACTURER.
- 2. A MANUFACTURER'S REPRESENTATIVE IS TO BE PRESENT INSTALLATION OF THE JOINT.
- 3. PLACE STEEL RETAINER RAILS IN JOINT OPENING. PROPE ALIGN THE RAILS BOTH HORIZONTALLY AND VERTICALLY.
- 4. SHIFT SLIGHTLY, AS NECESSARY, CONFLICTING REINFORCI
- 5. DECK SLAB CONCRETE PLACEMENT OPERATIONS SHALL COM PER THE POURING SEQUENCE AFTER FINAL JOINT ALIGNM IS SET.
- 6. CARE MUST BE TAKEN DURING THE CONCRETE POUR TO PRO THE STEEL RETAINER RAILS FROM BEING FOULED BY CON SPILLOVER.
- 7. ON APPROACH SLAB SIDE OF JOINT, RE-LEVEL AND RE-AL STEEL RETAINER RAIL AS REQUIRED.
- 8. PLACE APPROACH SLAB CONCRETE.
- 9. ONCE THE CONCRETE HAS HARDENED SUFFICIENTLY ON BOT SIDES OF JOINT, STEEL RETAINER RAILS SHALL BE CLEAN THOROUGHLY AND SEAL CHANNELS SHALL BE INSPECTED TO ASCERTAIN THE ABSENCE OF CONCRETE AND DEBRIS.
- 10. COAT THE STRIP SEAL LUGS WITH LUBRICANT-ADHESIVE INSTALL THE NEOPRENE STRIP SEAL GLAND AS RECOMMENT BY THE STRIP SEAL EXPANSION JOINT MANUFACTURER.

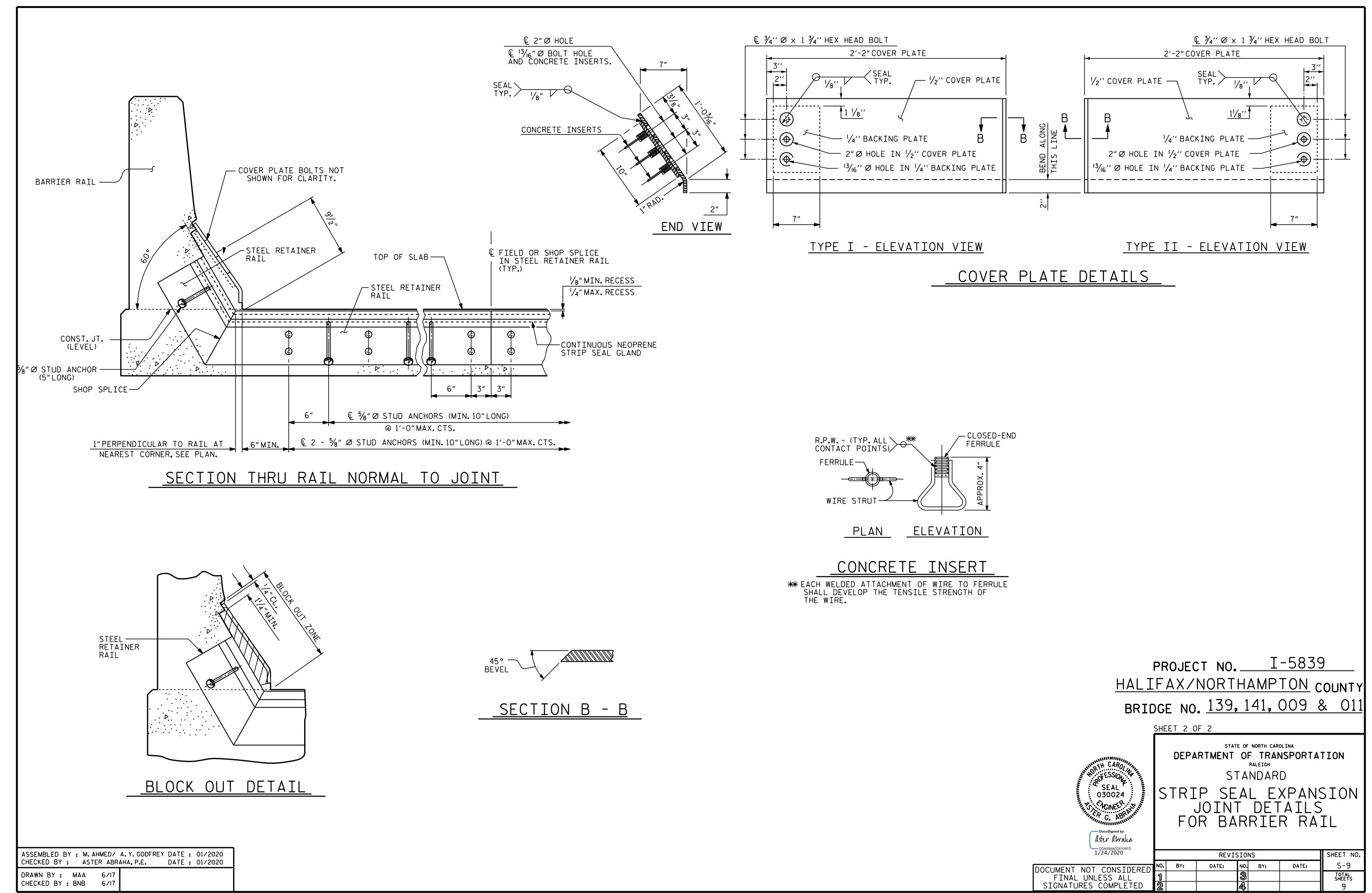
DIMENSION "B" AS REQUIRED.



JRE:	GENERAL NOTES
ENDED DURING	STEEL RETAINER RAILS SHALL CONFORM TO AASHTO M270 GRADE 36 OR GRADE 50W STEEL.ALL STUD ANCHORS SHALL CONFORM TO AASHTO M169, GRADES 1010 THRU 1020 OR APPROVED EQUAL.ALL CONCRETE INSERTS SHALL BE CLOSEDEND AND SHALL CONFORM TO
PERL Y	AASHTO M169,GRADE 12L14.TENSILE CAPACITY SHALL BE 3000 LBS.MIN.
ING STEEL.	ONLY STEEL RETAINER RAILS OF ONE-PIECE CONSTRUCTION ARE PERMITTED. STEEL RETAINER RAILS CONSISTING OF TWO OR MORE COMPONENTS WELDED TOGETHER TO OBTAIN THEIR FINAL CROSS-SECTIONAL SHAPE ARE NOT PERMITTED.
MMENCE MENT	NEOPRENE STRIP SEAL GLAND SHALL BE CONTINUOUS THROUGHOUT THE JOINT AND SHALL BE COMPATIBLE WITH THE STEEL RETAINER RAILS.
ROTECT NCRETE	STUD ANCHORS SHALL BE SHOP WELDED AND SHALL BE ELECTRIC ARC END WELDED WITH COMPLETE FUSION.
IGN	SURFACES COMING IN CONTACT WITH STRIP SEAL GLAND SHALL BE GROUND SMOOTH PRIOR TO METALLIZING.
ОТН ANED ГО	UPON COMPLETION OF SHOP FABRICATION, THE STEEL RETAINER RAILS SHALL BE METALLIZED AS SHOWN IN THE ``METALLIZING DETAIL''. SEE SPECIAL PROVISIONS FOR THERMAL SPRAYED COATINGS (METALLIZATION).
	INSTALLED STEEL RETAINER RAILS SHALL FOLLOW THE ROADWAY SLOPE.
AND NDED	FIELD SPLICES OF THE RETAINER RAILS SHALL BE KEPT TO A MINIMUM.CONTRACTOR SHALL FURNISH DETAILED PLANS SHOWING PROPOSED SPLICE LOCATIONS FOR APPROVAL.
	NO ALTERNATE JOINT DETAILS SHALL BE PERMITTED IN LIEU OF THOSE SHOWN ON THESE PLANS.
	THE CONTRACTOR MAY, AT HIS OPTION, USE ADHESIVELY ANCHORED ANCHOR BOLTS IN PLACE OF CONCRETE INSERTS FOR COVER PLATES THE YIELD LOAD OF THE 3/4" Ø BOLT IS 10 KIPS.FIELD TESTING

OF THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

PROJECT NO. <u>I-5839</u> <u>HALIFAX/NORTHAMPTON</u> cour bridge no. <u>139,141,009 & 0</u>						
	SHEET 1 OI	- 2				
Bocusigned by: DDA094AED5104FD	depa STRI	rtment S1 PSE	RALEIGH	NSPORTA	SION	
1/24/2020	REVISIONS SHEET NO.					
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S-8	
FINAL UNLESS ALL SIGNATURES COMPLETED	1		3		TOTAL SHEETS	
SIGNATURES CUMPLETED	2		4		9	



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