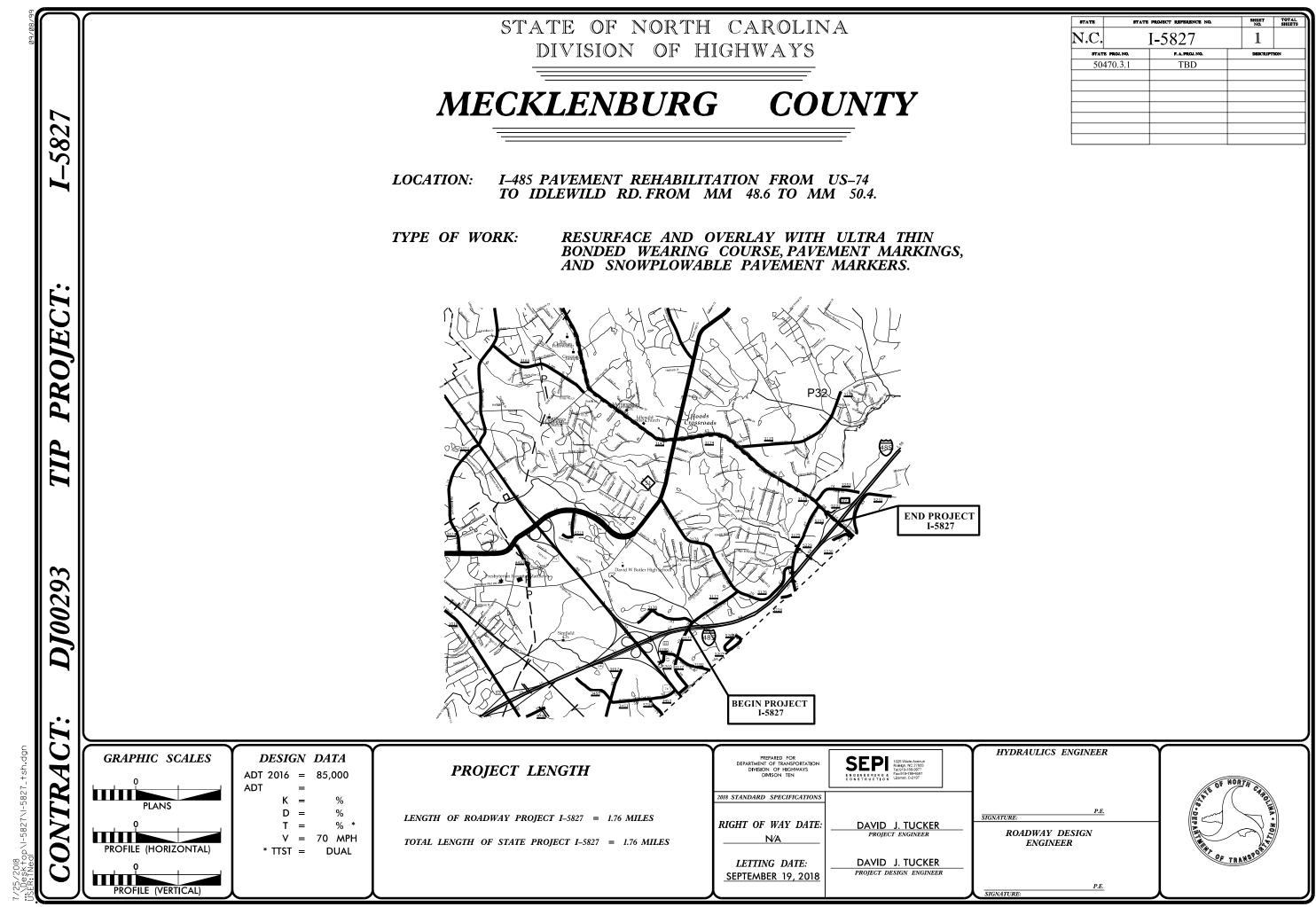
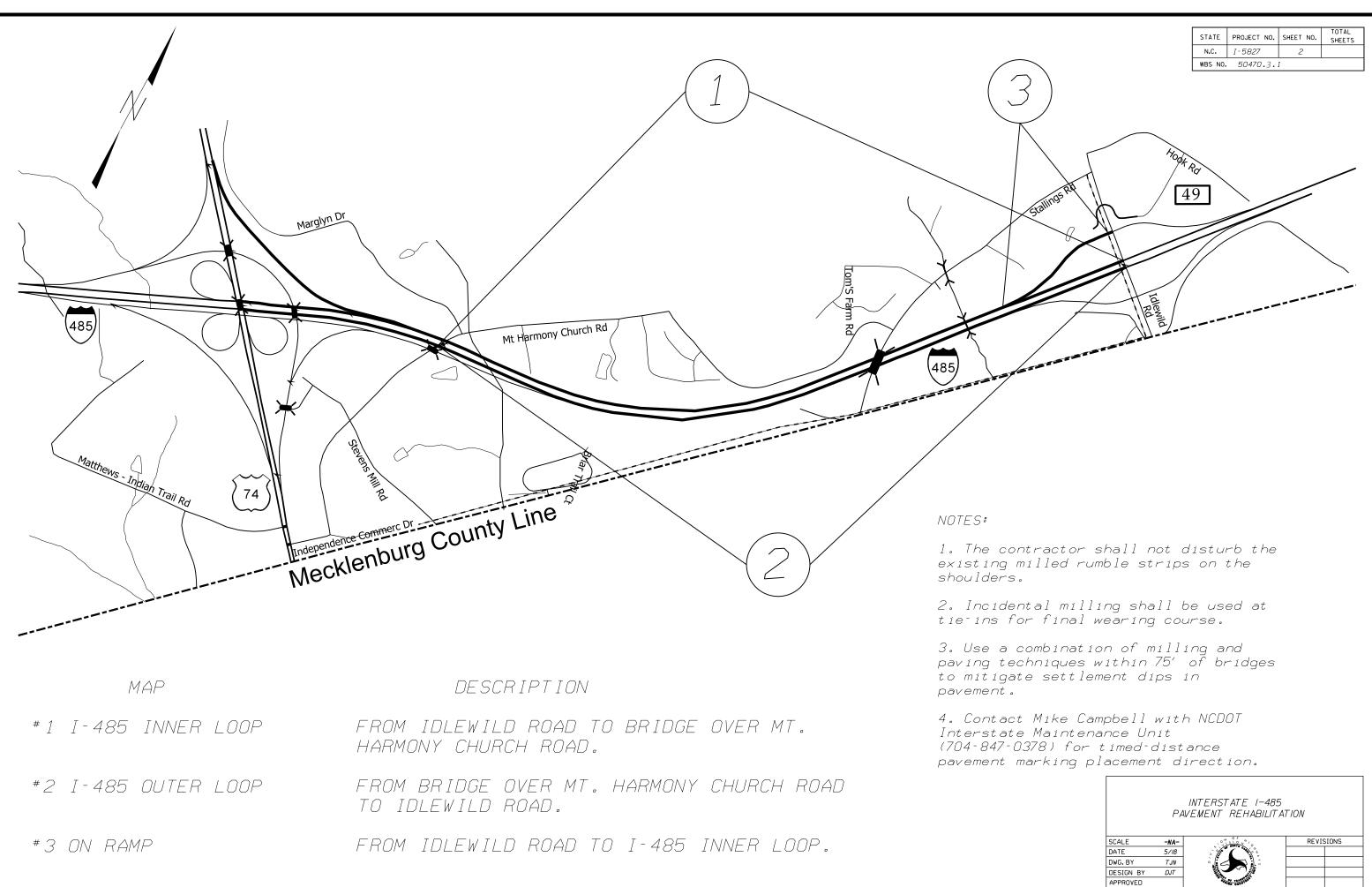
This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page. This file or an individual page shall not be considered a certified document.

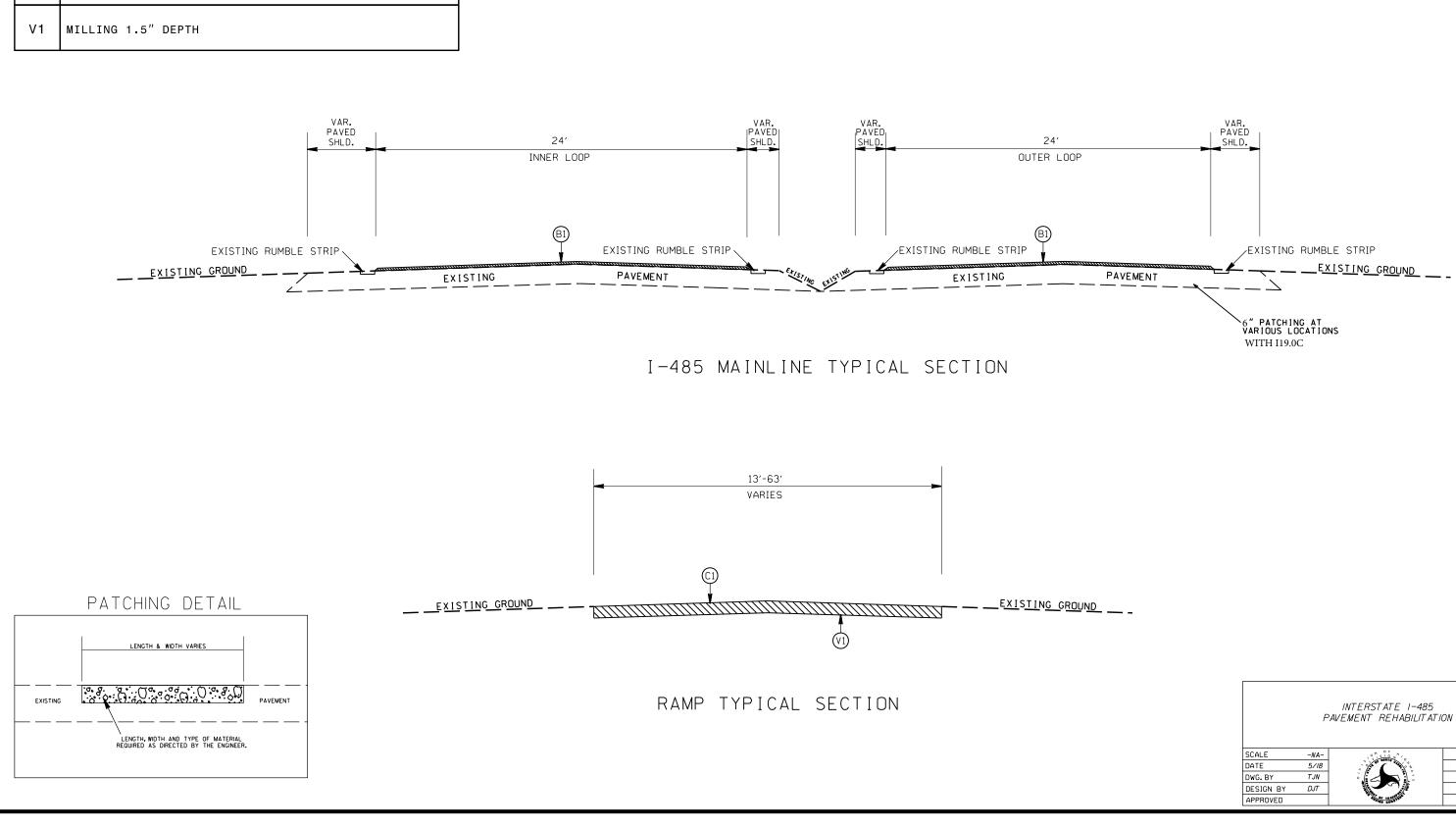


STATE	STATE	STATE PROJECT REFERENCE NO.				
N.C.		I-5827		1		
STAT	E PROJ. NO.	F. A. PROJ. NO.		DESCRIPT	10N	
50-	470.3.1	TBD				



INTERSTATE 1-485	
PAVEMENT REHABILITATION	

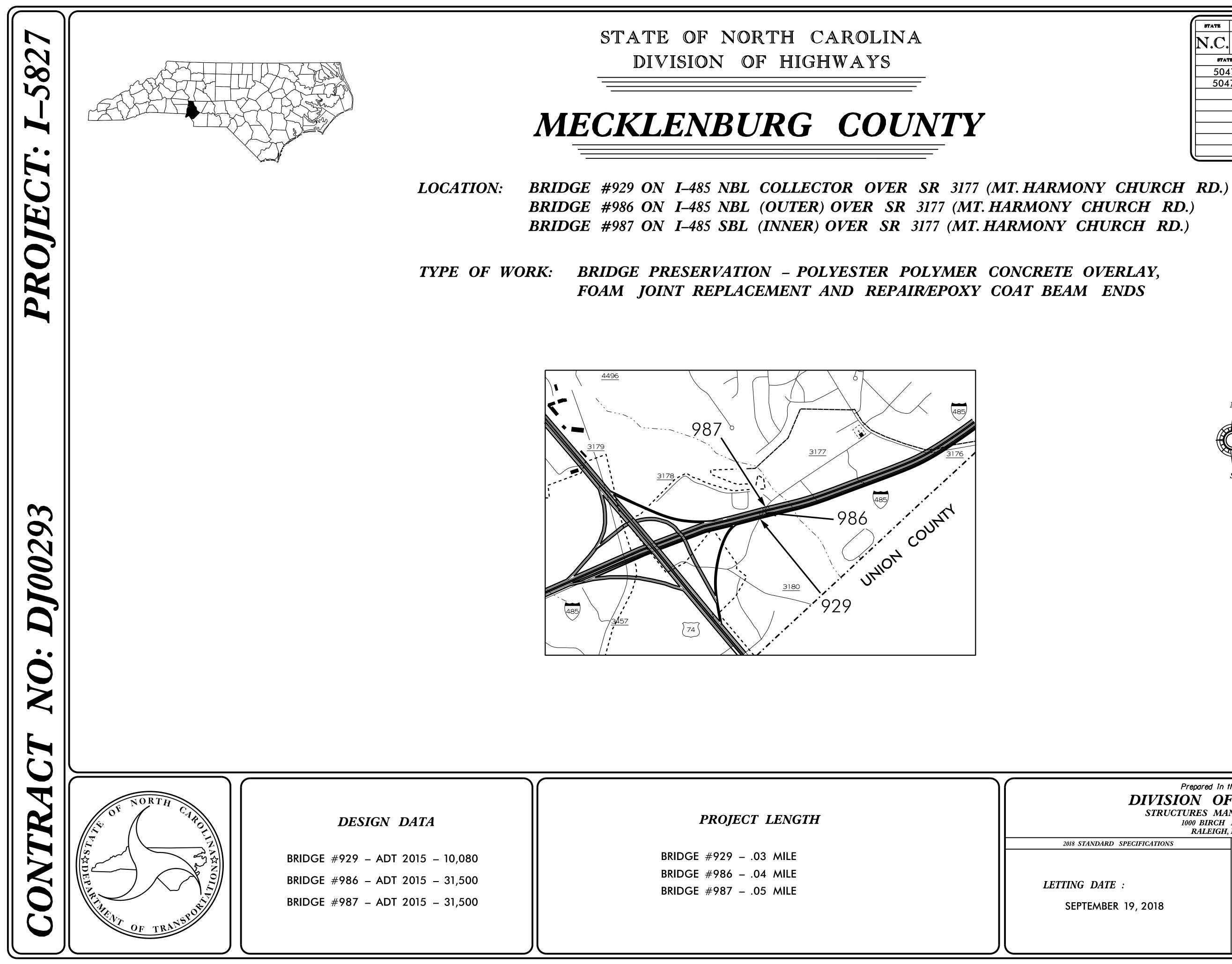
	-NA-		REVIS	SIONS
	5/18			
	TJN			
ΒY	DJT			
ED		AN OF TRANSPOOL		



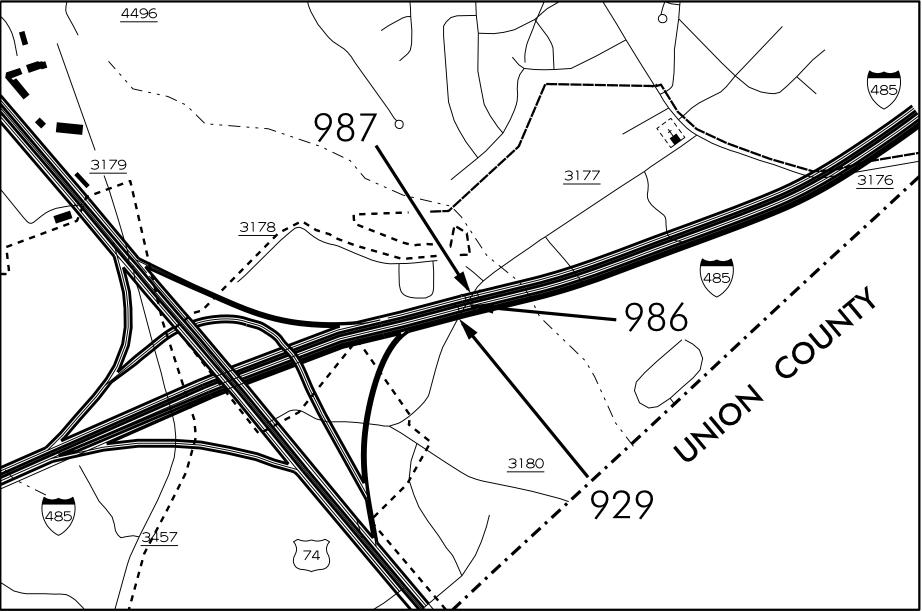
	PAVEMENT SCHEDULE
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD
V1	MILLING 1.5" DEPTH

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5827	3	
WBS NO.	50470.3.1		

	Ρ	INTERSTATE I-485 AVEMENT REHABILITATI	ON	
SCALE	-NA-	St SIG W	REVIS	SIONS
DATE	5/18			
DWG. BY	TJN			
DESIGN BY	DJT			
APPROVED		A OF OF TRANSFOR		



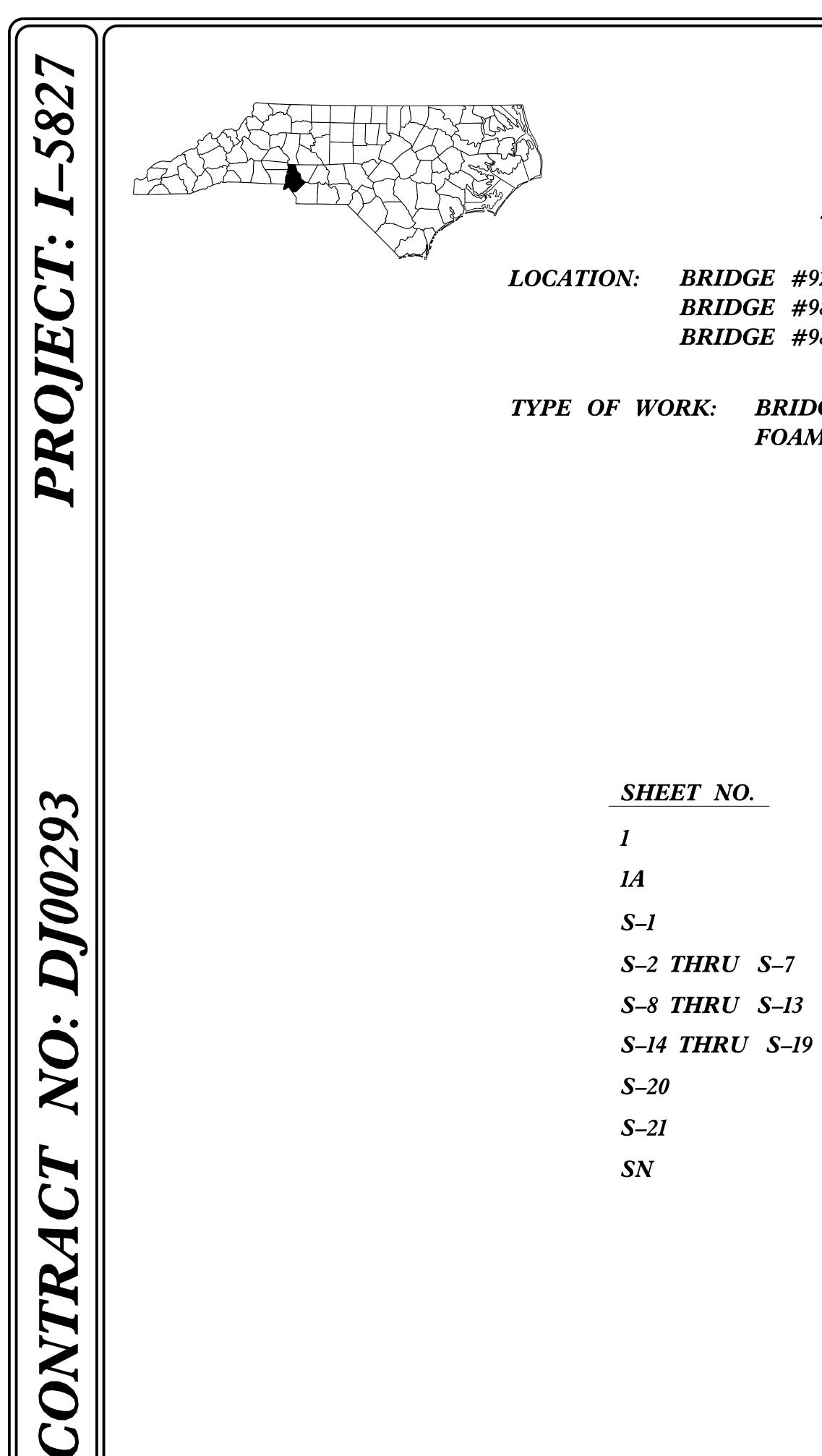
FOAM JOINT REPLACEMENT AND REPAIR/EPOXY COAT BEAM ENDS



STATE	8TA1	STATE PROJECT REPERENCE NO.			
N.C.		I-5827			
STAT	E PROJ. NO.	F. A. PROJ. NO.	DESCRIPT	ION	
504	70.1.FS1		P.E.		
504	70.3.FS1		CONS	ST.	



Prepared in the Office of: DIVISION OF HIGHWAYS STRUCTURES MANAGEMENT UNIT 1000 BIRCH RIDGE DR. RALEIGH, N.C. 27610						
ING DATE :	A. KEITH PASCHAL, PE PROJECT ENGINEER					
SEPTEMBER 19, 2018	N. A. PIERCE, PE Project design engineer					



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

BRIDGE #929 ON I-485 NBL COLLECTOR OVER SR 3177 (MT. HARMONY CHURCH RD.)BRIDGE #986 ON I-485 NBL (OUTER) OVER SR 3177 (MT. HARMONY CHURCH RD.)BRIDGE #987 ON I-485 SBL (INNER) OVER SR 3177 (MT. HARMONY CHURCH RD.)

TYPE OF WORK:BRIDGE PRESERVATION – POLYESTER POLYMER CONCRETE OVERLAY,FOAM JOINT REPLACEMENT AND REPAIR/EPOXY COAT BEAM ENDS

INDEX OF SHEETS

DESCRIPTION
TITLE SHEET
INDEX OF SHEETS
STRUCTURAL PLANS – LOC
STRUCTURAL PLANS – BRI
STRUCTURAL PLANS – BRI
STRUCTURAL PLANS – BRI
JOINT DETAILS
PRESTRESSED CONCRETE
STANDARD NOTES

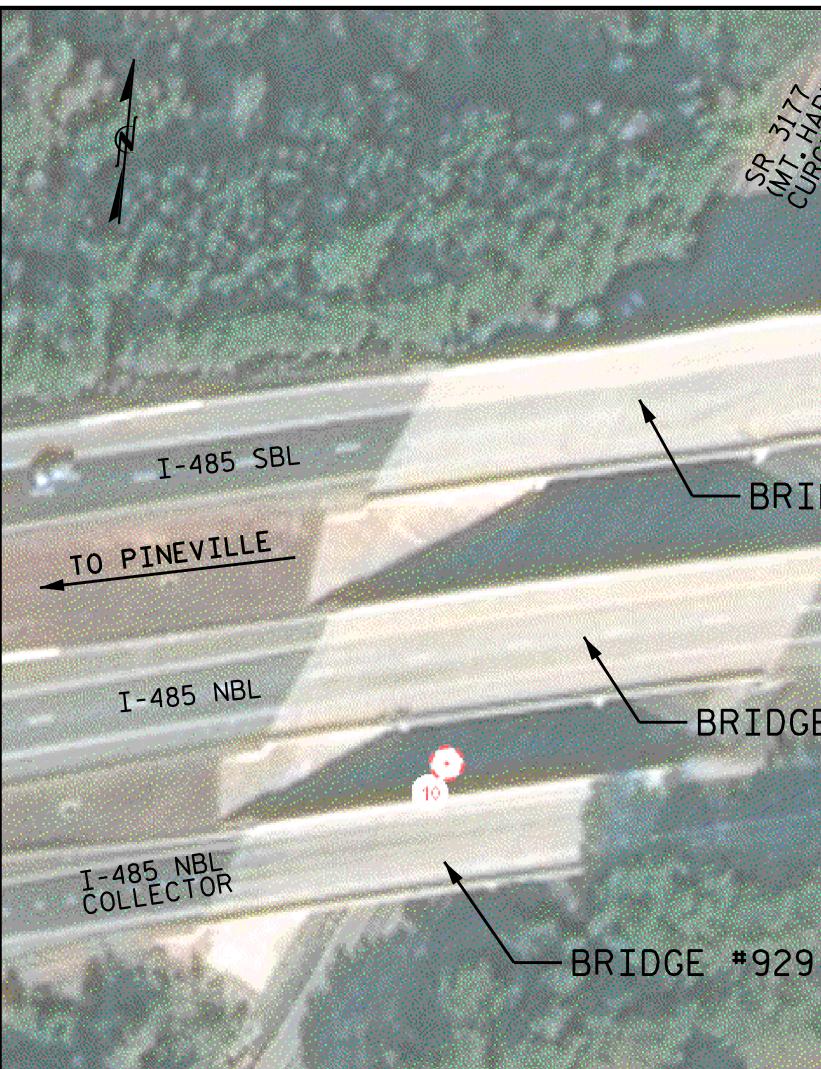
STATE	STAT	B PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		I-5827		
87.47	e proj. No.	F. A. PROJ. NO.	DESCRIPT	10N
504	70.1.FS1		P.E.	
504	70.3.FS1		CONS	ST.

CATION SKETCH – BRIDGES No. 929, 986, 987 IDGE No. 929

IDGE No. 986

IDGE No. 987

REPAIR DETAILS



LOCATION SKETCH

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION ONLY. THE 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.

	——————————————————————————————————————									
BRIDGE NO.	GROOVING BRIDGE FLOOR	CLASS II SURFACE PREPARATION	FOAM JOINT SEALS	POLYESTER POLYMER CONCRETE (PPC) MATERIALS	REPAIRS TO PRESTRESSED CONCRETE GIRDERS	PCG EPOXY COATING	CONCRETE DECK REPAIR FOR PPC OVERLAY	PLACING & FINISHING PPC OVERLAY	SCARIFYING BRIDGE DECK	SHOTBLASTING BRIDGE DECK
	SQ.FT.	SQ. YDS.	LUMP SUM	CU. YDS.	CU.FT.	SQ.FT.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.
# 929	6650	* 1 . 0		34.2	3.5	155.4	* 1.0	807	807	807
* 986	10296	0.06		51.0	4.4	186.6	0.06	1236	1236	1236
* 987	12262	* 1 . 0		59.6	13.4	217.6	* 1.0	1472	1472	1472
TOTALS	29208	2.06	LUMP SUM	144.8	21.3	559 . 6	2.06	3515	3515	3515

* CLASS II SURFACE PREPARATION AND CONCRETE DECK REPAIR FOR PPC OVERLAY ARE NOT ANTICIPATED. A TOKEN PAY ITEM IS INDICATED FOR PRICING PURPOSES IN THE EVENT UNANTICIPATED CLASS II AREAS ARE ENCOUNTERED.

CHECKED BY : E.K. POPE DATE :7/2018	DRAWN BY :	M. POOLE	DATE : 1/2018
	CHECKED BY :	E.K.POPE	DATE : <u>7/2018</u>

19-JUL-2018 07:26 B:\TIPProjects-I\I5827\Structures\FinalPlans\401_001_I5827_SMU_GD_001 _590929.DGN

+



3177 HARMONT TO CONCORD BRIDGE #987 BRIDGE #986

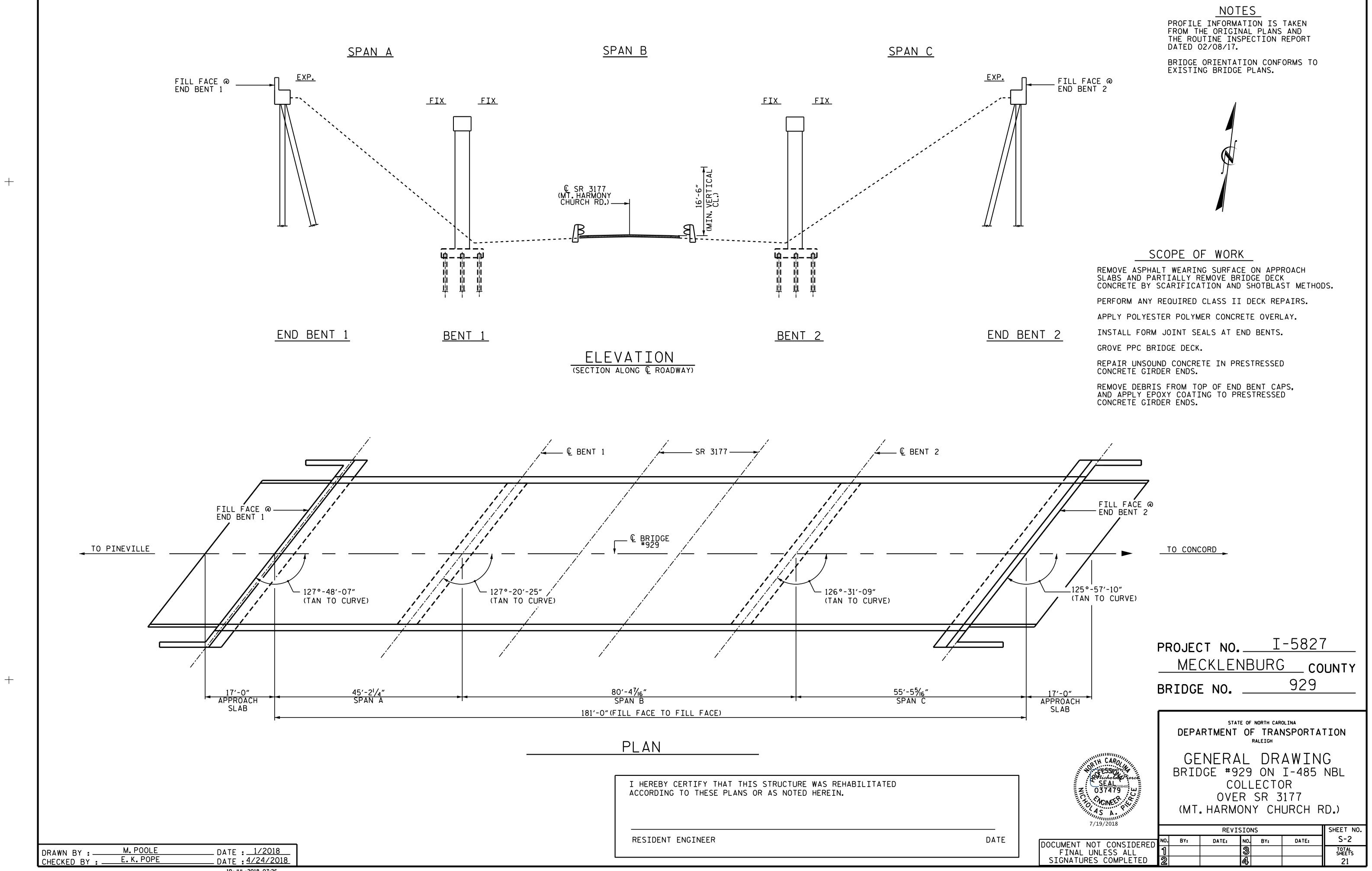
EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER. THE CONTRACTOR SHALL HAVE NO CLAIM, WHATSOEVER, AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THAT SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS. 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 TRAFFIC CONTROL AND LIMITS OF PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS. FOR GIRDER REPAIR, SEE SPECIAL PROVISIONS. FOR POLYESTER POLYMER CONCRETE OVERLAY, SEE SPECIAL PROVISIONS. FOR SCARIFYING BRIDGE DECK, SHOTBLASTING BRIDGE DECK, AND CLASS II SURFACE PREPARATION, SEE OVERLAY SURFACE PREPARATION FOR POLYESTER POLYMER CONCRETE SPECIAL PROVISION. FOR CONCRETE DECK REPAIR FOR PPC OVERLAY, PPC MATERIALS AND PLACING & FINISHING PPC OVERLAY, SEE POLYESTER POLYMER CONCRETE BRIDGE DECK OVERLAY SPECIAL PROVISIONS. EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATION OF BRIDGE DECK.

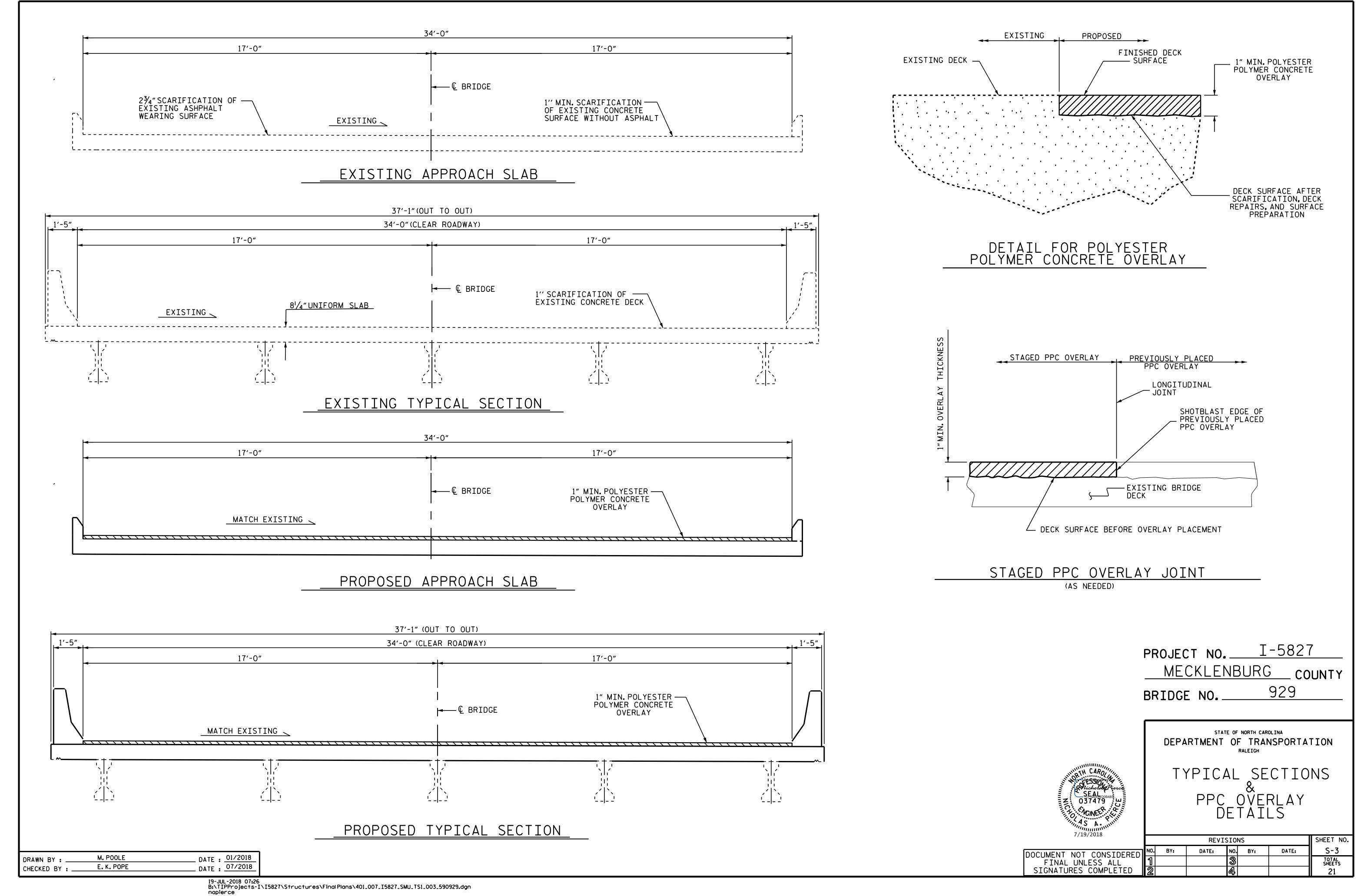
FOR PCG EPOXY COATING AND DEBRIS REMOVAL, SEE SPECIAL PROVISIONS. FOR FOAM JOINT SEAL, SEE SPECIAL PROVISIONS.

NOTES

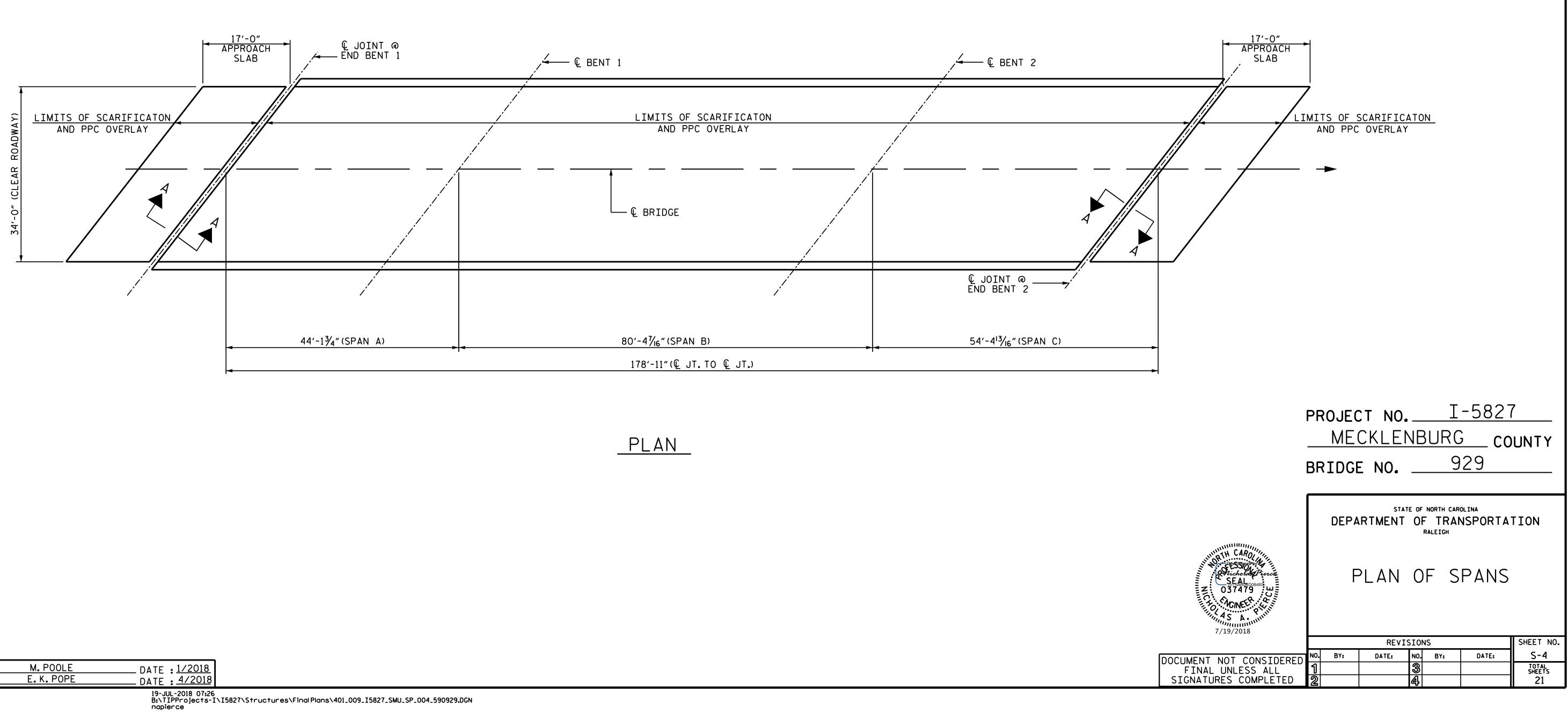
PROJECT NO. 1-5827 MECKLENBURG COUNTY BRIDGE NO.<u>929,986 & 987</u>

	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						
Z O37479	BRI	DGE #9 C OVE)29)N R),#98 I-48 SR 3	35	987	
7/19/2018	REVISIONS SHEET NO.						
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO.	BY:	DATE:	S-1	
FINAL UNLESS ALL	1		3			TOTAL SHEETS	
SIGNATURES COMPLETED	2		4			21	





+



DRAWN BY :	M. POOLE	DATE : <u>1/2018</u>
CHECKED BY : _	E. K. POPE	DATE : <u>4/2018</u>

+

AS-BUILT REPAIR QUANTITY TABLE						
TOP OF DECK REPAIRS						
	_					
ESTIMATE ACTUAL						
SCARIFYING BRIDGE DECK	807 SQ.YDS.					
CLASS II SURFACE PREPARATION	*1.0 SQ. YDS.					
CONCRETE DECK REPAIR FOR PPC OVERLAY	*1.0 SQ. YDS.					
SHOTBLASTING BRIDGE DECK	807 SO.YDS.					
PPC MATERIALS	34.2 CU. YDS.					
PLACING AND FINISHING PPC OVERLAY 807 SQ.YDS.						
GROOVING BRIDGE FLOORS	6650 SQ.FT.					

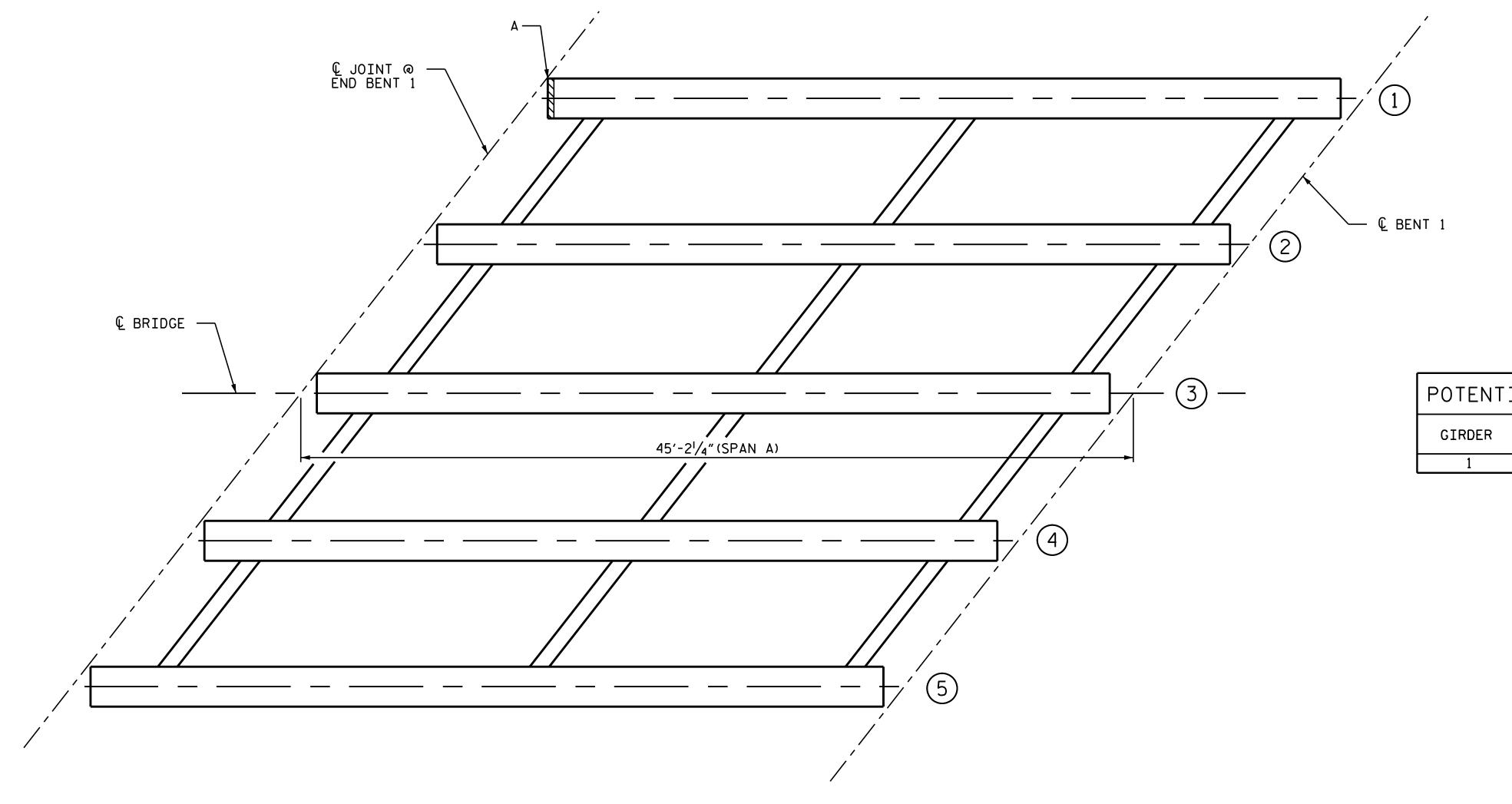


REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE BASED ON THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

FOR SECTIONS A-A, SEE "JOINT DETAILS" SHEETS.

* CLASS II SURFACE PREPARATION AND CONCRETE DECK REPAIR FOR PPC OVERLAY ARE NOT ANTICIPATED. A TOKEN PAY ITEM IS INDICATED FOR PRICING PURPOSES IN THE EVENT UNANTICIPATED CLASS II AREAS ARE ENCOUNTERED.

TOP OF DECK REPAIR QUANTITIES REPRESENT ESTIMATED VALUES OF CLASS II SURFACE PREPARATION AND CONCRETE DECK REPAIR FOR PPC OVERLAY AFTER REMOVAL OF UNSOUND CONCRETE (MIN. 2" CLEAR TO SAWCUT). SEE OVERLAY SURFACE PREPARATION FOR POLYESTER POLYMER CONCRETE SPECIAL PROVISION.



PRESTRESSED GIRDER REPAIR LOCATIONS

(OTHER LOCATIONS MAY EXIST, SEE NOTES)

DRAWN BY :	M. POOLE	DATE :	1/2018
CHECKED BY :	E.K.POPE	DATE :	4/2018

+

+

NOTES

FOR PRESTRESSED GIRDER REPAIR AND PCG EPOXY COATING DETAILS, SEE ``PRESTRESSED GIRDER REPAIR DETAILS'' SHEET S-21.

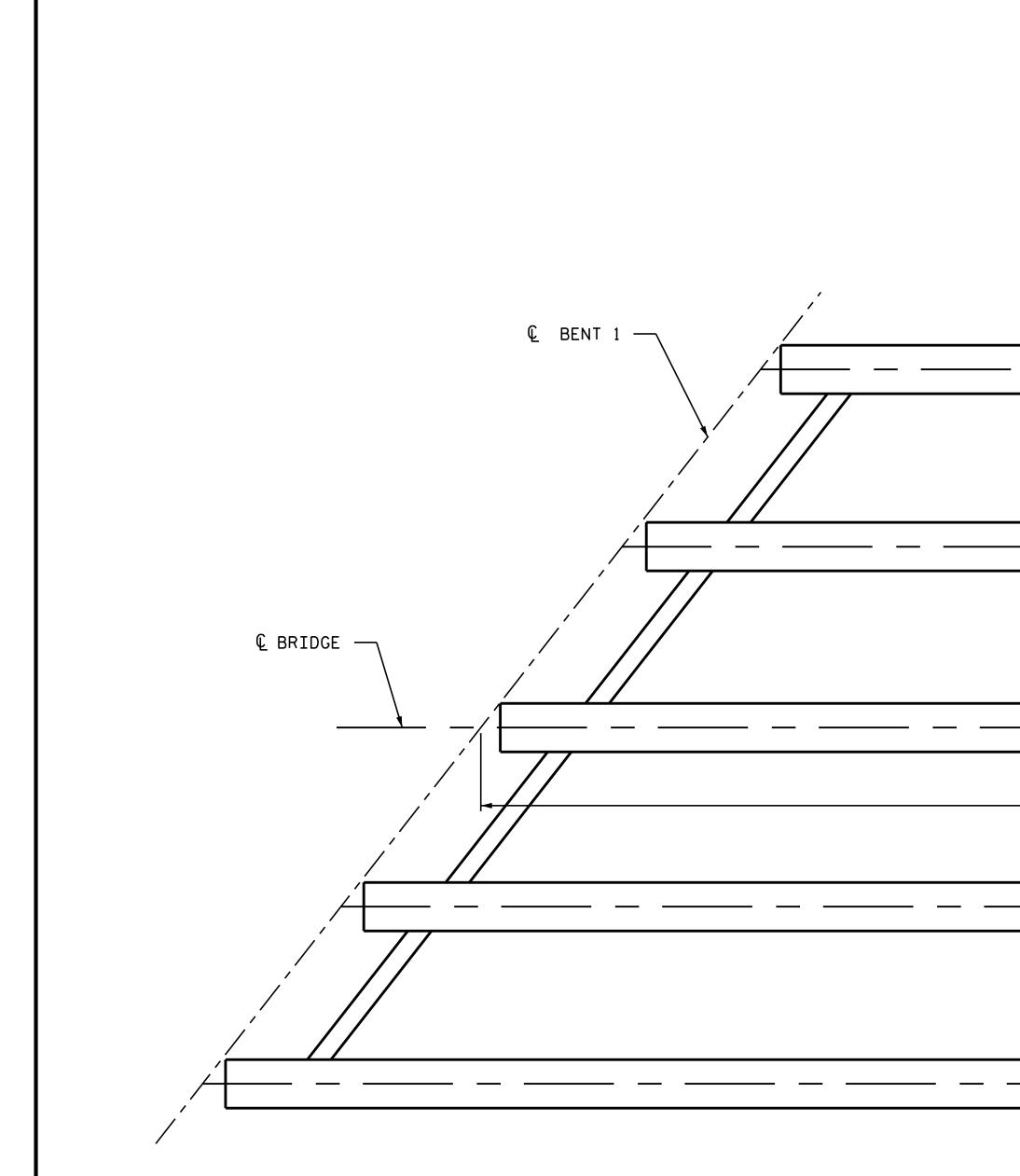
THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO GIRDER REPAIR.

POTENTIAL REPAIR LOCATION

1 GIRDER NUMBER

Ι	AL GIRDEF	R REPAIR LO	OCATIONS
	LOCATION	REPAIR SIZE (LXW)	LABEL
	BM.FL.	2'-0" X 2'-0"	А

[PROJEC ME BRIDGE	CKLEN E NO	NBURC	<u>-5827</u> <u>;</u> co 29	7 OUNTY
NCNEER 7/19/2018	PRE	RTMENT STRE PAIR	RALEIGH	GIR ATIO	DER
		REVIS	SIONS		SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S-5
FINAL UNLESS ALL	1		3		TOTAL SHEETS
SIGNATURES COMPLETED	2		4		21



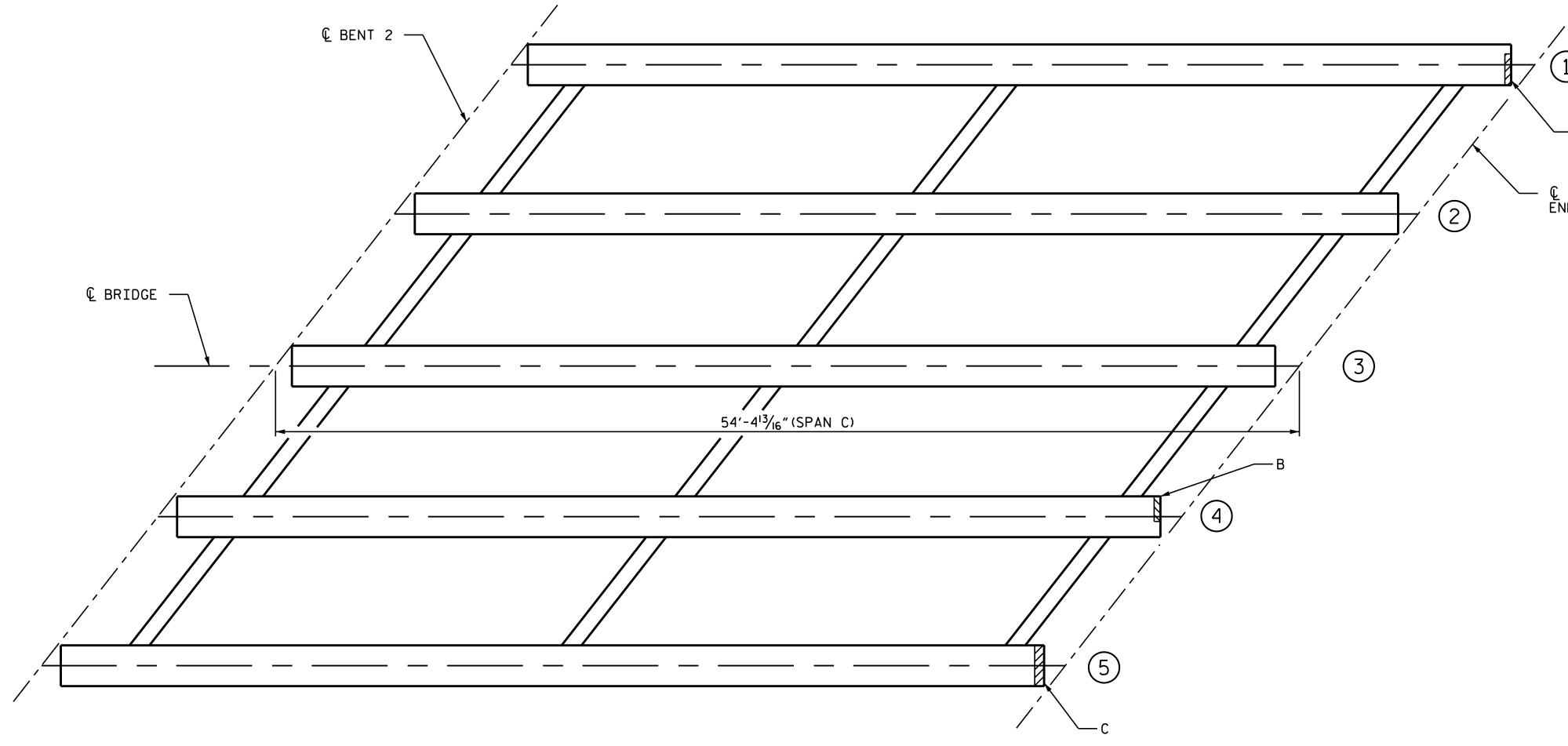
+

PRESTRESSED GIRDER REPAIR LOCATIONS (OTHER LOCATIONS MAY EXIST, SEE NOTES)

DRAWN BY :	M. POOLE	DATE : <u>1/2018</u>
CHECKED BY :	E.K.POPE	DATE : <u>4/2018</u>

80'-47/16" (SPAN	B)	
		 - $$ (5)

NOTES FOR PRESTRESSED GIRDER REPAIR AND PCG EPOXY COATING DETAILS, SEE ``PRESTRESSED GIRDER REPAIR DETAILS'' SHEET S-21. THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO GIRDER REPAIR. POTENTIAL REPAIR LOCATION (1) GIRDER NUMBER € BENT 2 (2) ____ (3)(4) PROJECT NO. 1-5827 MECKLENBURG COUNTY BRIDGE NO. 929 SHEET 2 OF 3 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH H CAR PRESTRESSED GIRDER REPAIR LOCATIONS SPAN B SEAL 037479 7/19/2018 SHEET NO. REVISIONS S-6 DATE: NO. BY: DATE: BY: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED total sheets 21



PRESTRESSED GIRDER REPAIR LOCATIONS

(OTHER LOCATIONS MAY EXIST, SEE NOTES)

DRAWN BY : _	M. POOLE	DATE :	1/2018
CHECKED BY :	E.K.POPE	DATE :	4/2018

+

+

NOTES

FOR PRESTRESSED GIRDER REPAIR AND PCG EPOXY COATING DETAILS, SEE ``PRESTRESSED GIRDER REPAIR DETAILS'' SHEET S-21.

THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO GIRDER REPAIR.

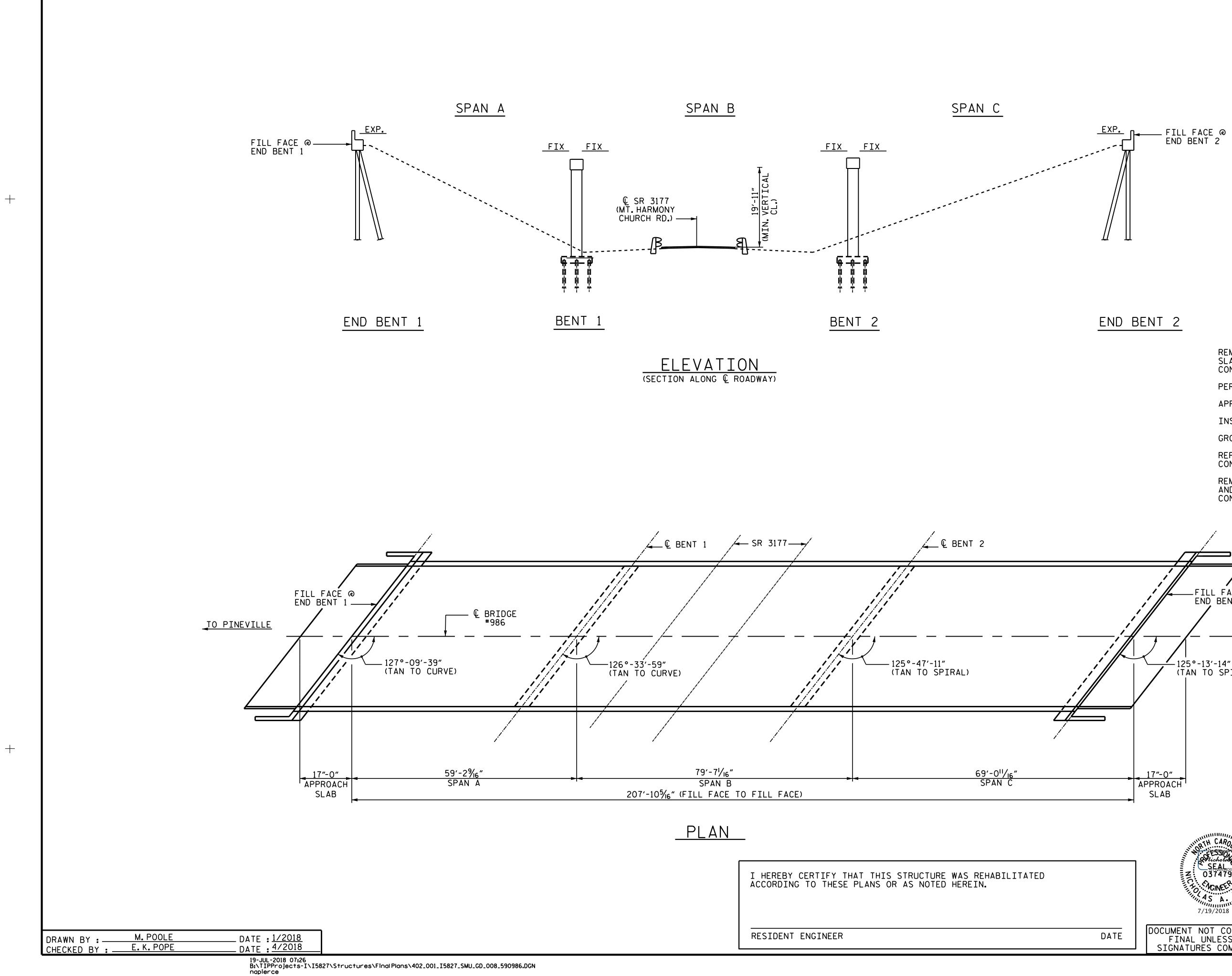
POTENTIAL REPAIR LOCATION

(1) GIRDER NUMBER

. € JOINT @ END BENT 2

POTENTI	AL GIRDEF	R REPAIR LO	DCATIONS
GIRDER	LOCATION	REPAIR SIZE (LXW)	LABEL
1	BEAM END	1'-6" X 1'-0"	А
4	BEAM END	1'-10" X 1'-2"	В
5	BEAM END	2'-0"X 4"	С

		CKLEN E NO	<u>NBUR(</u>	-5827 <u>-</u> co 29	7 OUNTY
TH CAROLINA TH CA	PRF	STRE PAIR	RALEIGH	NSPORTA GIR ATIO	DFR
		REVIS	SIONS		SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S-7
FINAL UNLESS ALL SIGNATURES COMPLETED	1 2		3 4		total sheets 21



NOTES

PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 02/08/17.

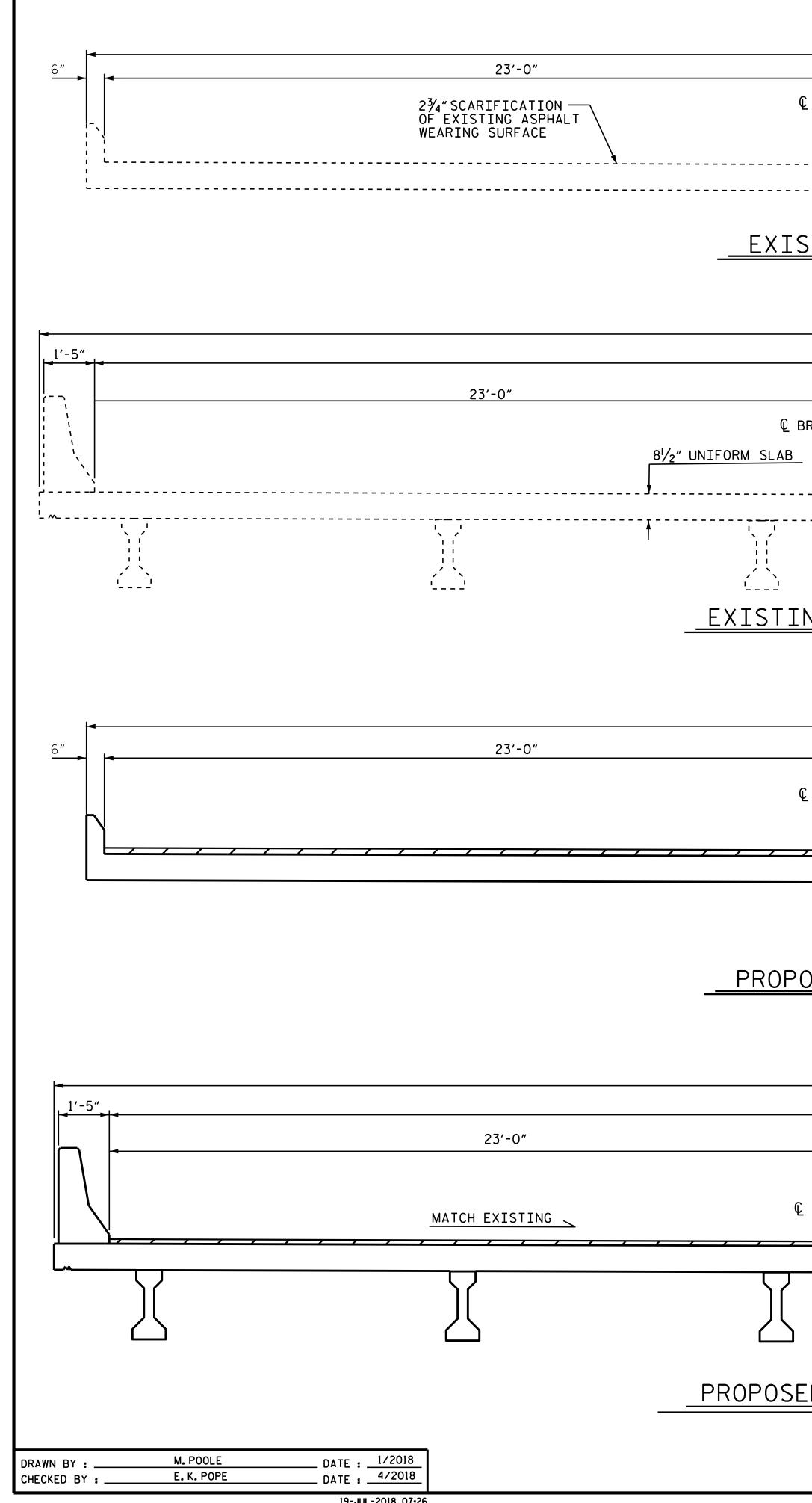
BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS.

SCOPE OF WORK

REMOVE ASPHALT WEARING SURFACE ON APPROACH SLABS AND PARTIALLY REMOVE BRIDGE DECK CONCRETE BY SCARIFICATION AND SHOTBLAST METHODS. PERFORM ANY REQUIRED CLASS II DECK REPAIRS. APPLY POLYESTER POLYMER CONCRETE OVERLAY. INSTALL FORM JOINT SEALS AT END BENTS. GROVE PPC BRIDGE DECK. REPAIR UNSOUND CONCRETE IN PRESTRESSED CONCRETE GIRDER ENDS.

REMOVE DEBRIS FROM TOP OF END BENT CAPS, AND APPLY EPOXY COATING TO PRESTRESSED CONCRETE GIRDER ENDS.

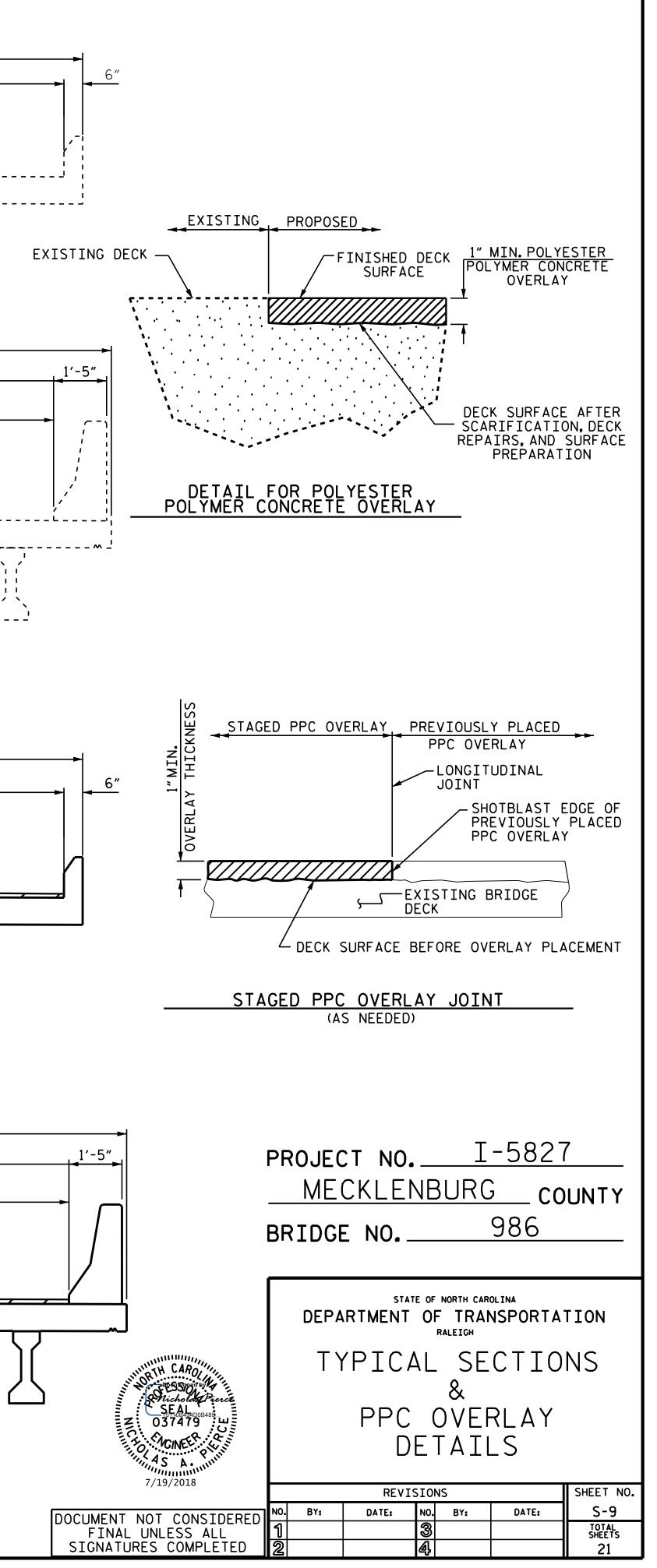
		Ē								
		EN 	LL FACE @ D BENT 2 3'-14" O SPIRAL)		<u>TO C</u>	<u>oncord</u>				
	17"-0'	"			ME	CT NO. CKLEI E NO.		URC	- <u>582</u> ; co 86	7 OUNTY
	APPROA SLAB			Γ	DEPA		OF	NORTH CAR TRAI RALEIGH	^{ol ina} NSPORTA	TION
		NICHOLINI NICHOLINI NICHOLINI	H CAROLUM)GE #9	86	ON	AWIN(1-485	
		NICHOUS	S A		(MT.	OVE	R	ITER) SR 3 Y CH		?D.)
		7/1	19/2018			REVI	SION	S		SHEET NO.
		MENT NO	OT CONSIDERED) NO.	BY:	DATE:	NO.	BY:	DATE:	S-8
ΤE		FINAL U	NLESS ALL	ป			3			TOTAL SHEETS
	ין א <u>ר</u>	SNA I URE	S COMPLETED	2			4			21

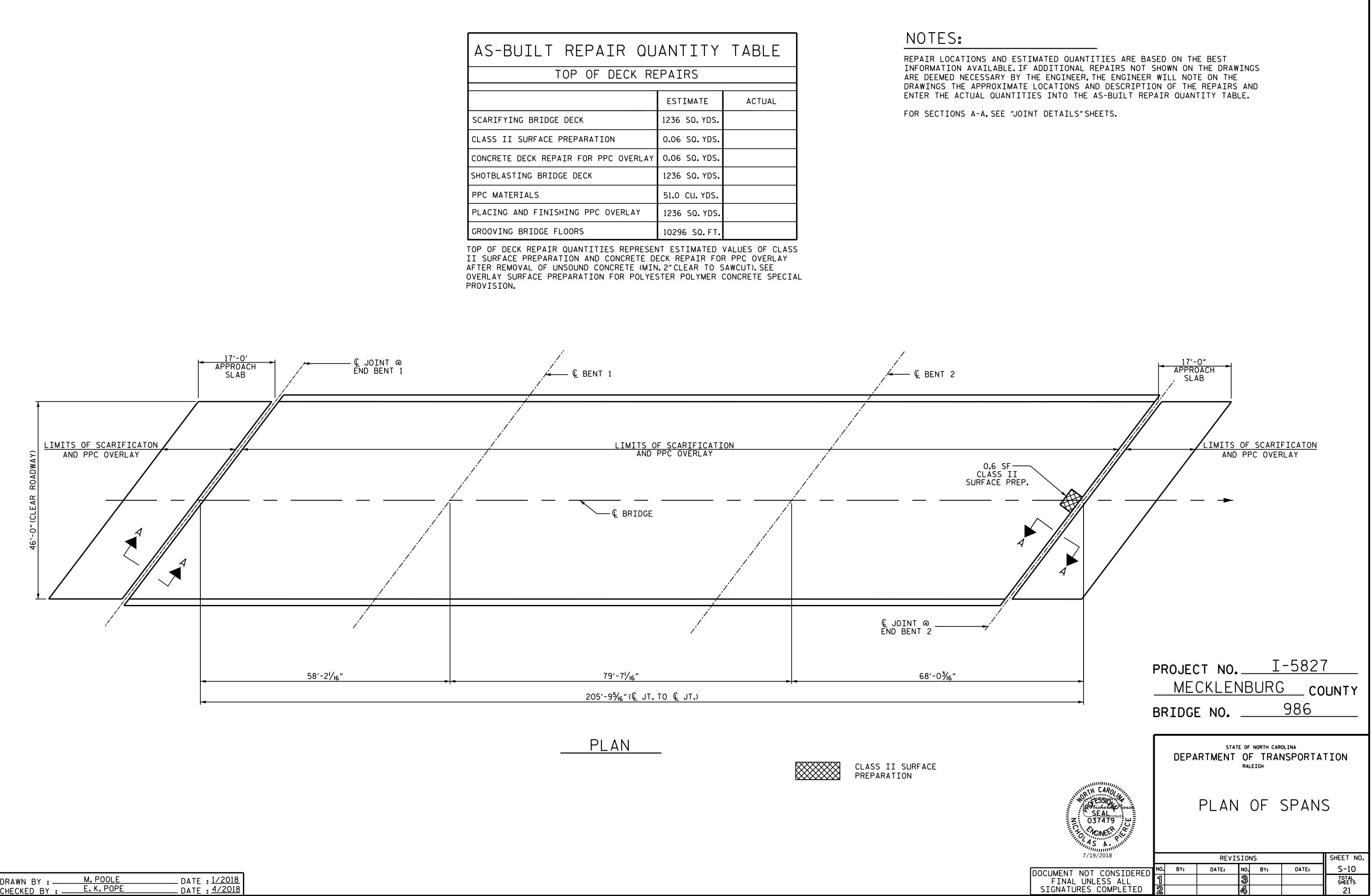


+

19-JUL-2018 07:26 B:\TIPProjects-I\I5827\Structures\FinalPlans\402_003_I5827_SMU_TS_009_590986.DGN

	47'-0″	27/ 0//	
BRIDGE —	EXISTING	23'-0" 1" MIN. SCARIFICATION OF EXISTING CONCRETE SURFACE WITHOUT ASPHALT	
		······	
STING	APPROACAH SLAB	3	
49'-1"	(OUT TO OUT)		
	CLEAR ROADWAY)		
	4	23'-0"	
RIDGE ——►	1" SCA EXISTING <	RIFICATION OF ING CONCRETE DECK	
 	XI31ING		
NG TYP	PICAL SECTION	''	'
	47'-0"	23'-0"	
BRIDGE		1"MIN.POLYESTER POLYMER CONCRETE	
	MATCH EXISTING	POLYMER CONCRETE	
			, , , , , , , , , , , , , , , , , , , ,
<u>DSED A</u>	PPROACAH SLAB		
49'-	1″(OUT TO OUT)		
	"(CLEAR ROADWAY)		
	▶ ⊲	23'-0"	
		1"MIN.POLYESTER POLYMER CONCRETE	١
BRIDGE ——	► 		
		΄ Υ	
	\sim		
D TYP	ICAL SECTION		
_		<u> </u>	

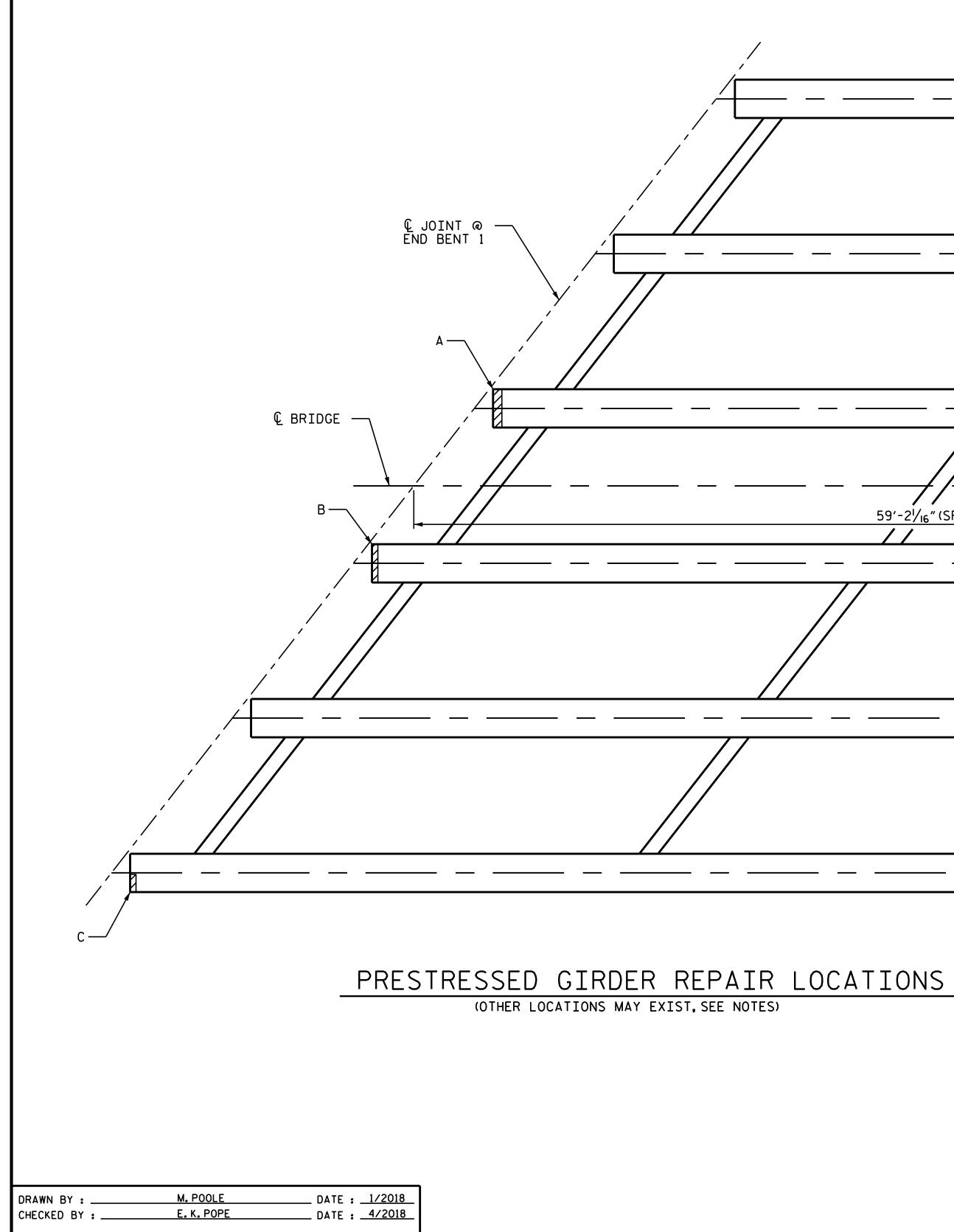




DRAWN BY :	M. POOLE	DATE : 1/2018
CHECKED BY :	E.K.POPE	DATE : 4/2018
		10 11 0010 07 00

+

AS-BUILT REPAIR QUANTITY TABLE		
TOP OF DECK RE	PAIRS	
	ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK	1236 SQ. YDS.	
CLASS II SURFACE PREPARATION	0.06 SQ. YDS.	
CONCRETE DECK REPAIR FOR PPC OVERLAY	0.06 SO.YDS.	
SHOTBLASTING BRIDGE DECK	1236 SQ. YDS.	
PPC MATERIALS	51.0 CU. YDS.	
PLACING AND FINISHING PPC OVERLAY	1236 SQ.YDS.	
GROOVING BRIDGE FLOORS	10296 SO.FT.	



+

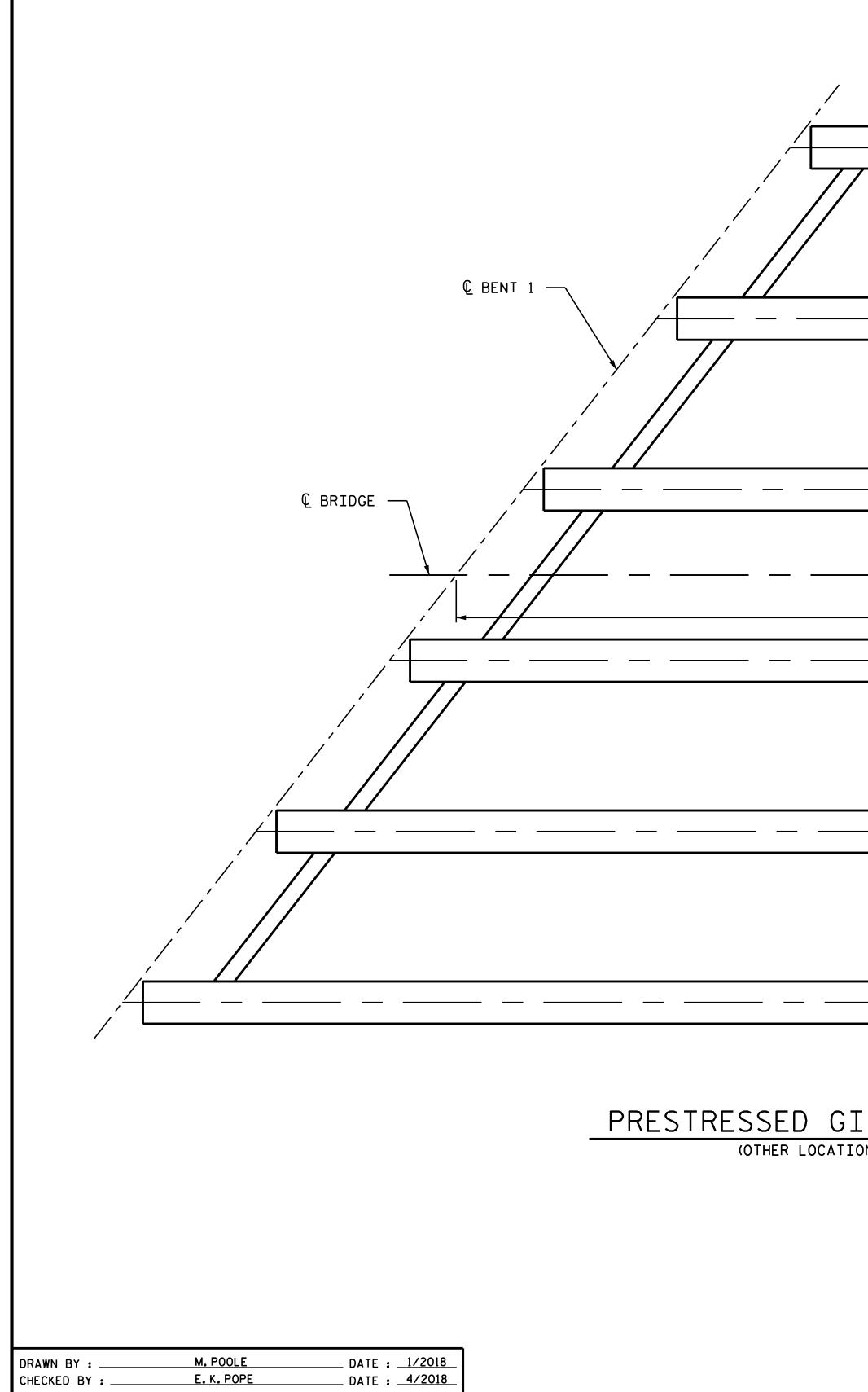
	́Севе ́З
 59'-2 ^l / ₁₆ " (SPAN A)	
	6

NOTES FOR PRESTRESSED GIRDER REPAIR AND PCG EPOXY COATING DETAILS, SEE ``PRESTRESSED GIRDER REPAIR DETAILS'' SHEET S-21. THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE.THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO GIRDER REPAIR. POTENTIAL REPAIR LOCATION (1) GIRDER NUMBER

BENT 1

POTENTIAL GIRDER REPAIR LOCATIONS				
GIRDER	LOCATION	REPAIR SIZE (LXW)	LABEL	
3	BEAM END	2'-0" X 2"	А	
4	BEAM END	2'-2" X 3'-4"	В	
6	BEAM END	10" X 1'-2"	С	

BRIDGE NO. 986	<u>27</u> COUNTY
SHEET 1 OF 3	
DEPARTMENT OF NORTH CAROLINA DEPARTMENT OF TRANSPOR RALEIGH	TATION
PRESTRESSED GI REPAIR LOCATI SPAN O37479 W 7/19/2018	RDER ONS
REVISIONS	SHEET NO.
DOCUMENT NOT CONSIDERED NO. BY: DATE: NO. BY: DATE:	— I
FINAL UNLESS ALL 1	TOTAL SHEETS
SIGNATURES COMPLETED 2	21

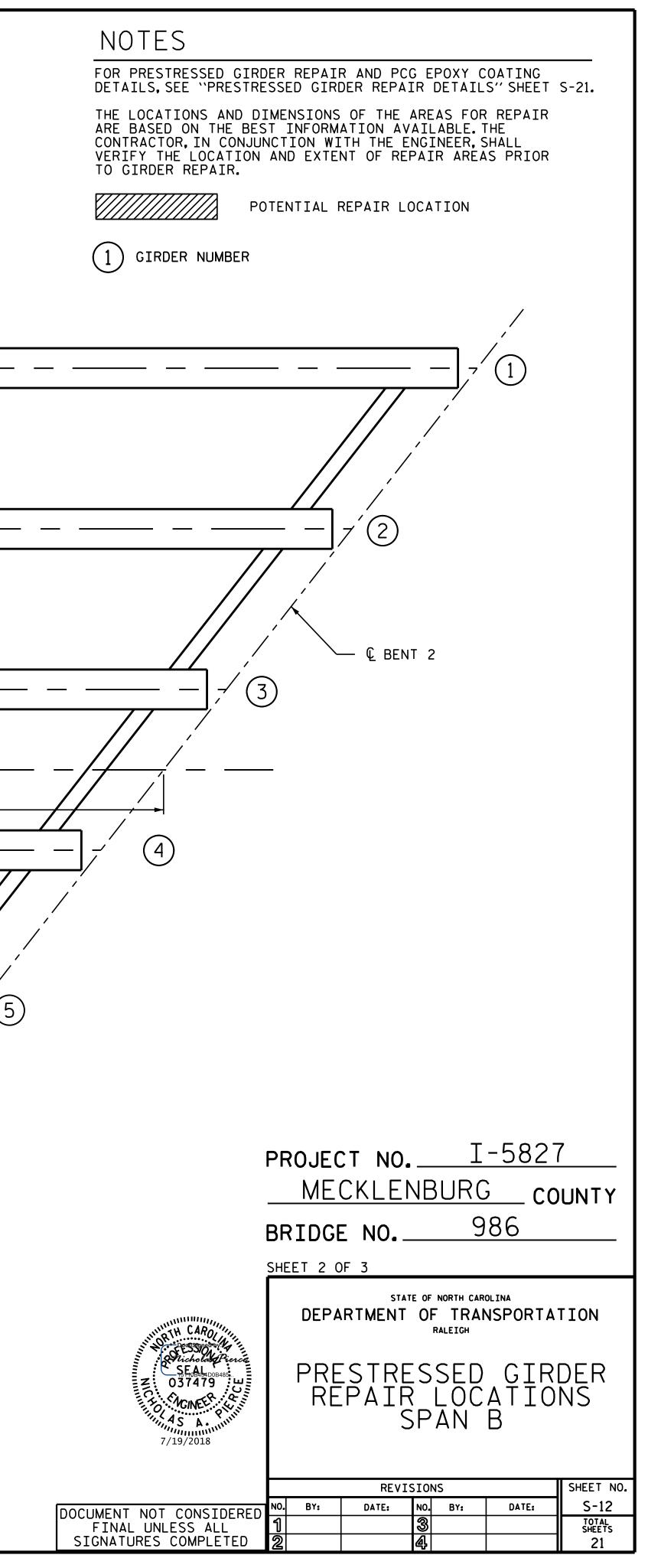


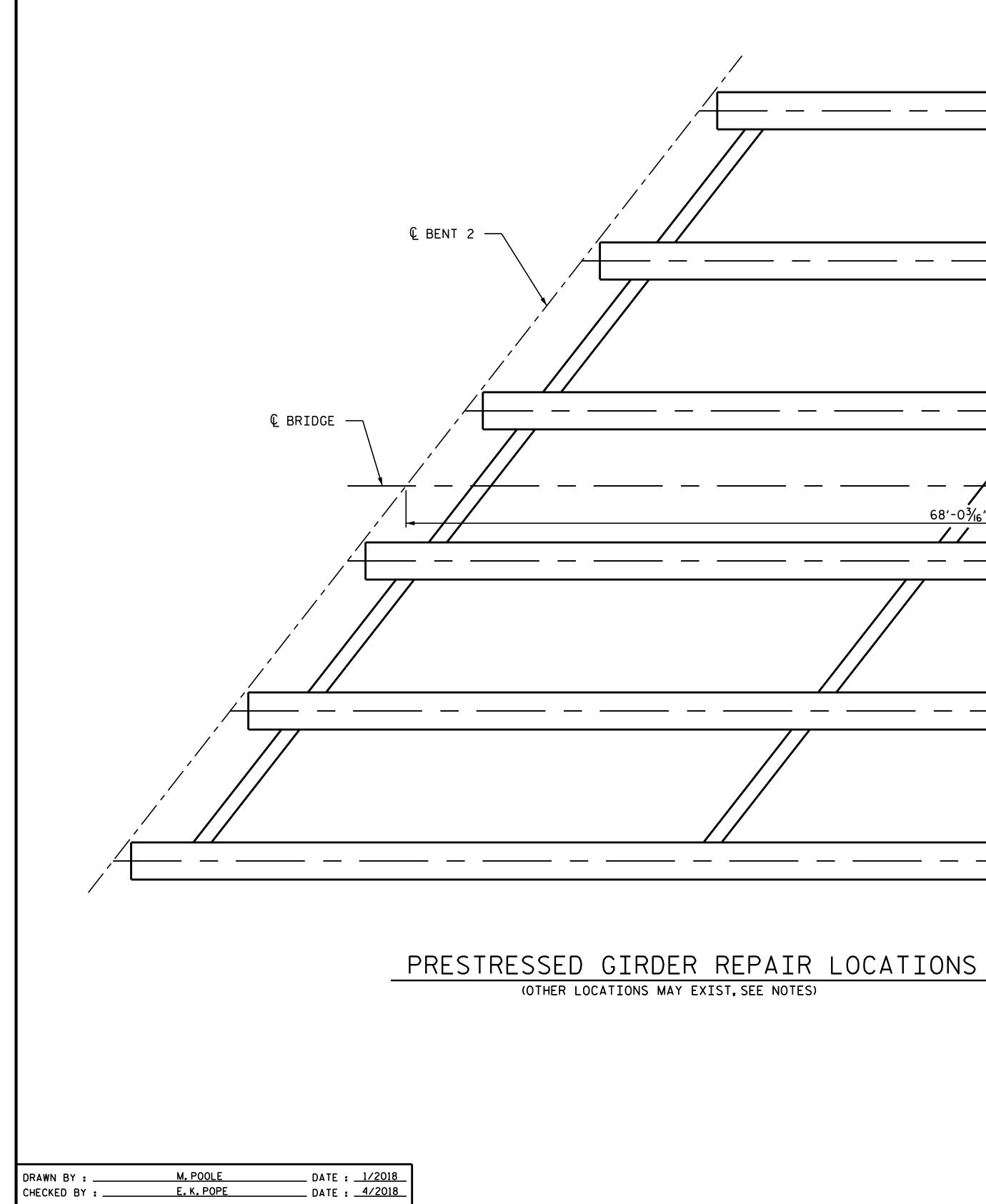
+

/ (!

PRESTRESSED GIRDER REPAIR LOCATIONS

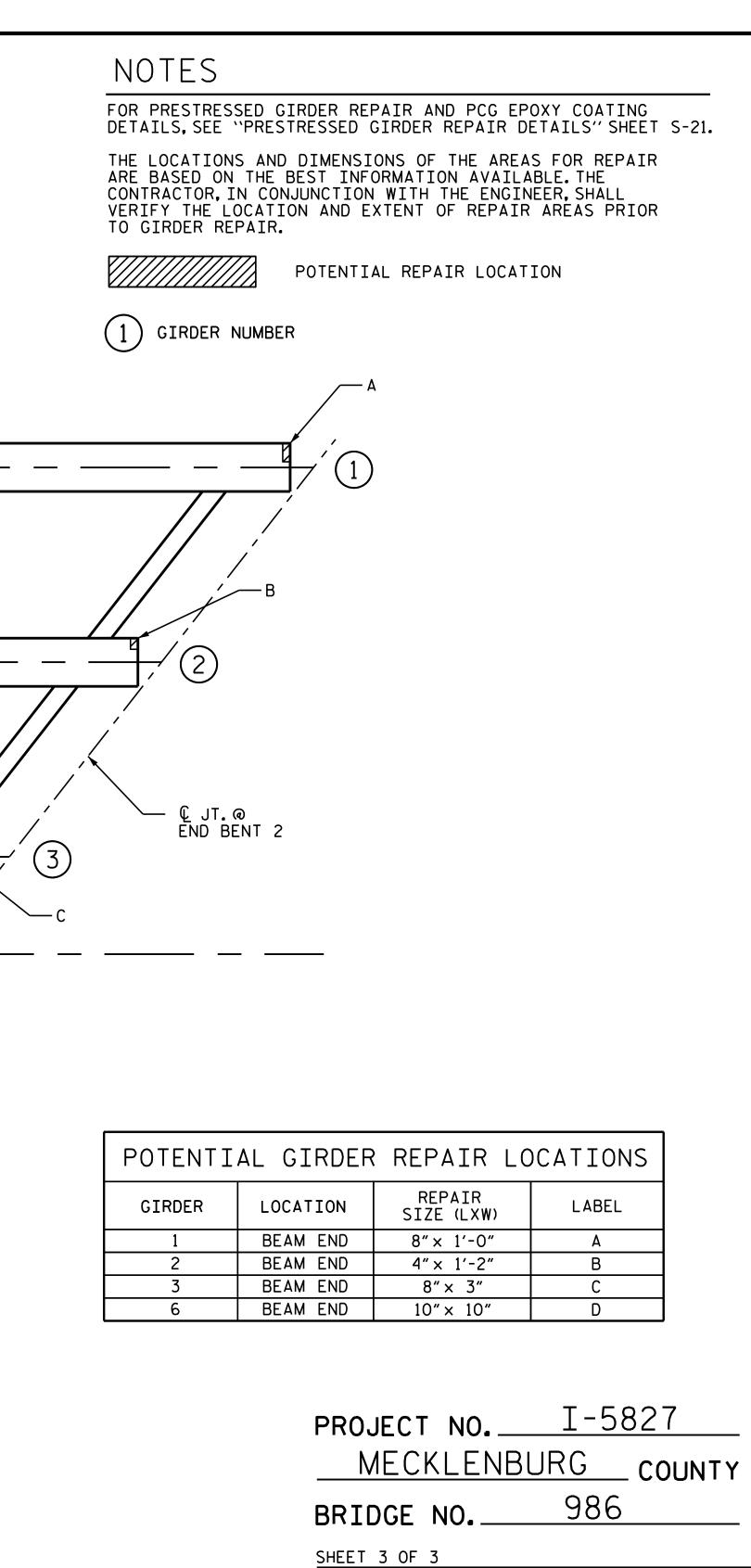
(OTHER LOCATIONS MAY EXIST, SEE NOTES)





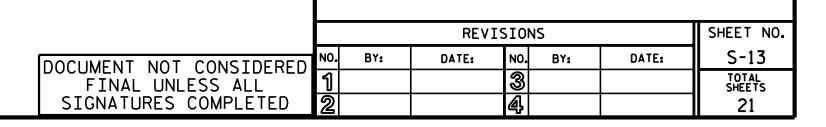
+

	5
ATR LOCATIONS	



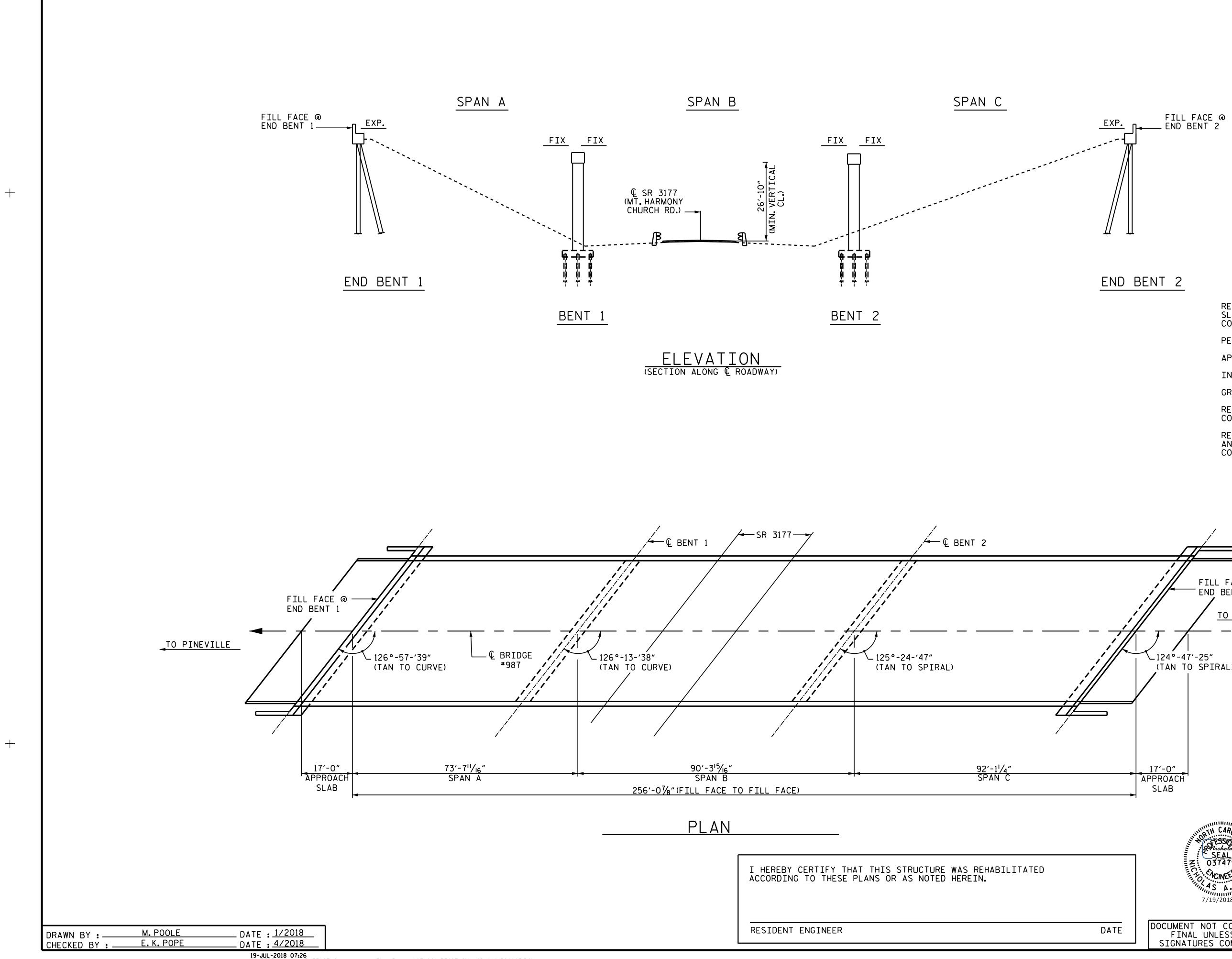
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH





037479

7/19/2018



19-JUL-2018 07:26 B:\TIPProjects-I\I5827\Structures\FinalPlans\403_001_I5827_SMU_GD_014_590987.DGN napierce

NOTES

PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 02/08/17.

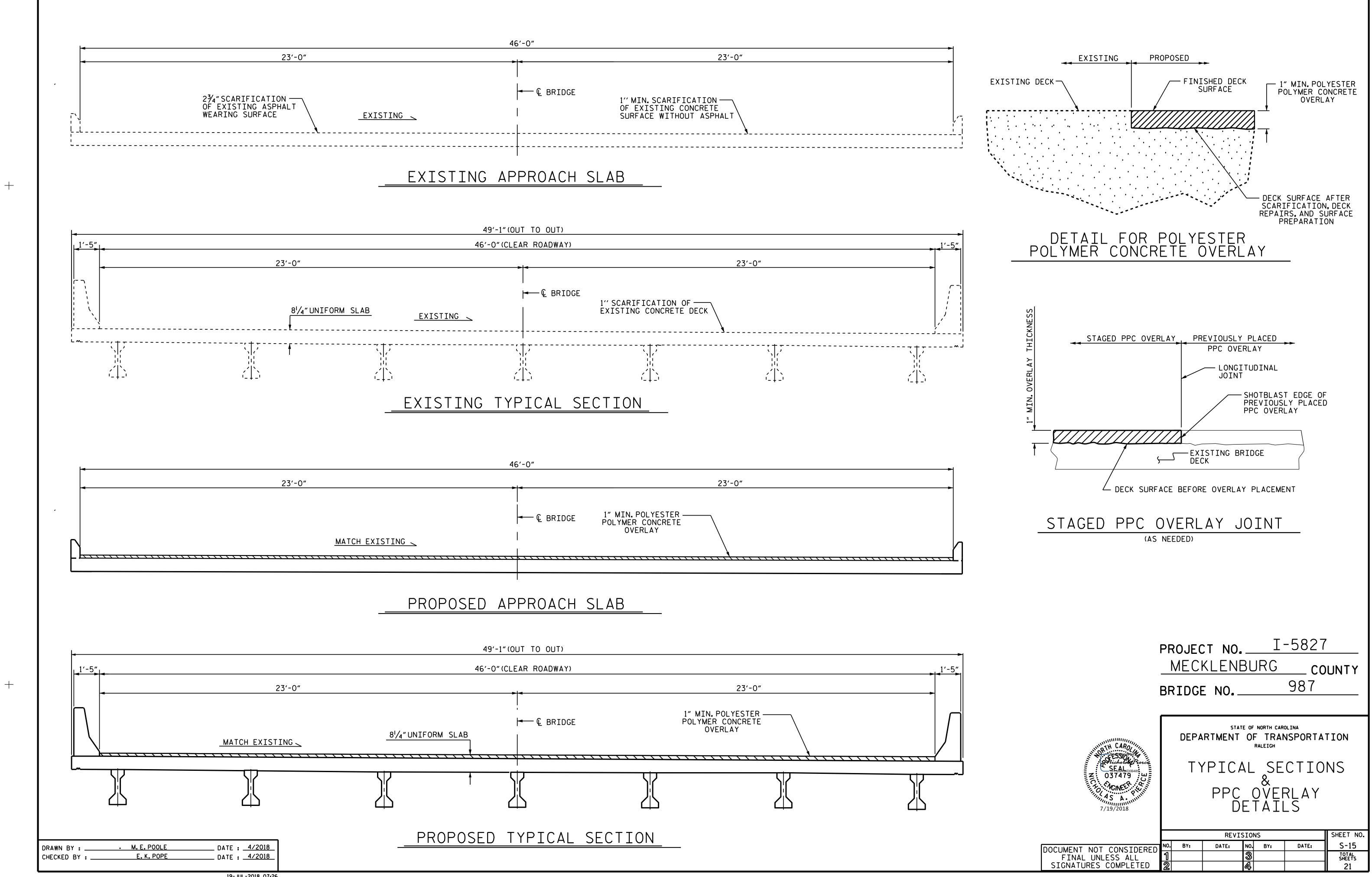
BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS.

SCOPE OF WORK

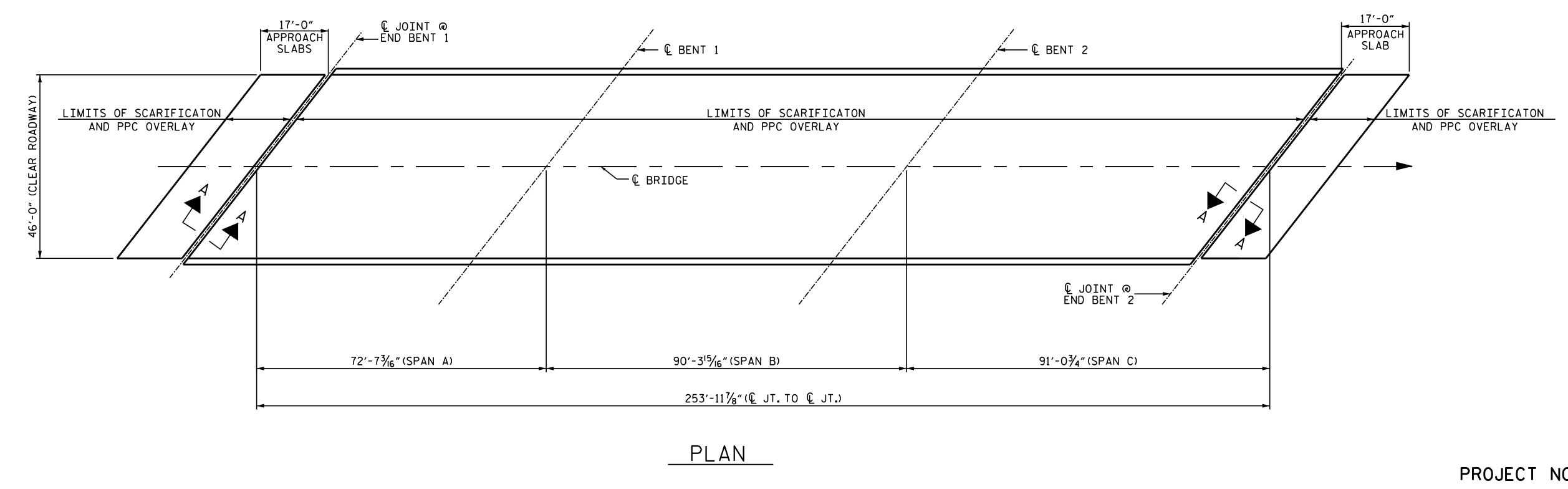
REMOVE ASPHALT WEARING SURFACE ON APPROACH SLABS AND PARTIALLY REMOVE BRIDGE DECK CONCRETE BY SCARIFICATION AND SHOTBLAST METHODS. PERFORM ANY REQUIRED CLASS II DECK REPAIRS. APPLY POLYESTER POLYMER CONCRETE OVERLAY. INSTALL FORM JOINT SEALS AT END BENTS. GROVE PPC BRIDGE DECK. REPAIR UNSOUND CONCRETE IN PRESTRESSED CONCRETE GIRDER ENDS.

REMOVE DEBRIS FROM TOP OF END BENT CAPS, AND APPLY EPOXY COATING TO PRESTRESSED CONCRETE GIRDER ENDS.

FILL FACE @ END BENT 2 TO CONCORD	
	PROJECT NO. <u>I-5827</u> <u>MECKLENBURG</u> county BRIDGE NO. <u>987</u>
SLAB	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
T/19/2018	GENERAL DRAWING BRIDGE #987 ON I-485 NBL (INNER) OVER SR 3177 (MT.HARMONY CHURCH RD.)
E DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	REVISIONSSHEET NO.NO.BY:DATE:NO.BY:DATE:S-1413



19-JUL-2018 07:26 B:\TIPProjects-I\I5827\Structures\FinalPlans\403_003_I5827_SMU_TS_015_590987.DGN napierce



DRAWN BY .	M. POOLE	DATE : <u>2/2018</u>
DRAWN BY : Checked by :	E.K.POPE	DATE 4/2018

19-JUL-2018 07:26 B:\TIPProjects-I\I5827\Structures\FinalPlans\403_005_I5827_SMU_SP_016_590987.DGN napierce

+

+

AS-BUILT REPAIR QUA	NTITY	TABLE	
TOP OF DECK REPAIRS			
ESTIMATE ACTUAL			
SCARIFYING BRIDGE DECK	1472 SQ. YDS.		
CLASS II SURFACE PREPARATION	*1.0 SO.YDS.		
CONCRETE DECK REPAIR FOR PPC OVERLAY	*1.0 SQ. YDS.		
SHOTBLASTING BRIDGE DECK	1472 SO. YDS.		
PPC MATERIALS	59.6 CU. YDS.		
PLACING AND FINISHING PPC OVERLAY	1472 SQ. YDS.		
GROOVING BRIDGE FLOORS	12262 SQ.FT.		

TOP OF DECK REPAIR QUANTITIES REPRESENT ESTIMATED VALUES OF CLASS II SURFACE PREPARATION AND CONCRETE DECK REPAIR FOR PPC OVERLAY AFTER REMOVAL OF UNSOUND CONCRETE (MIN. 2"CLEAR TO SAWCUT). SEE OVERLAY SURFACE PREPARATION FOR POLYESTER POLYMER CONCRETE SPECIAL PROVISION.

NOTES:

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE BASED ON THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

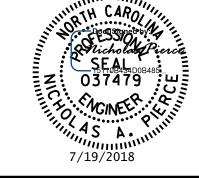
FOR SECTIONS A-A, SEE "JOINT DETAILS" SHEETS.

* CLASS II SURFACE PREPARATION AND CONCRETE DECK REPAIR FOR PPC OVERLAY ARE NOT ANTICIPATED. A TOKEN PAY ITEM IS INDICATED FOR PRICING PURPOSES IN THE EVENT UNANTICIPATED CLASS II AREAS ARE ENCOUNTERED.

> PROJECT NO. 1-5827 MECKLENBURG COUNTY BRIDGE NO. 987

> > STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

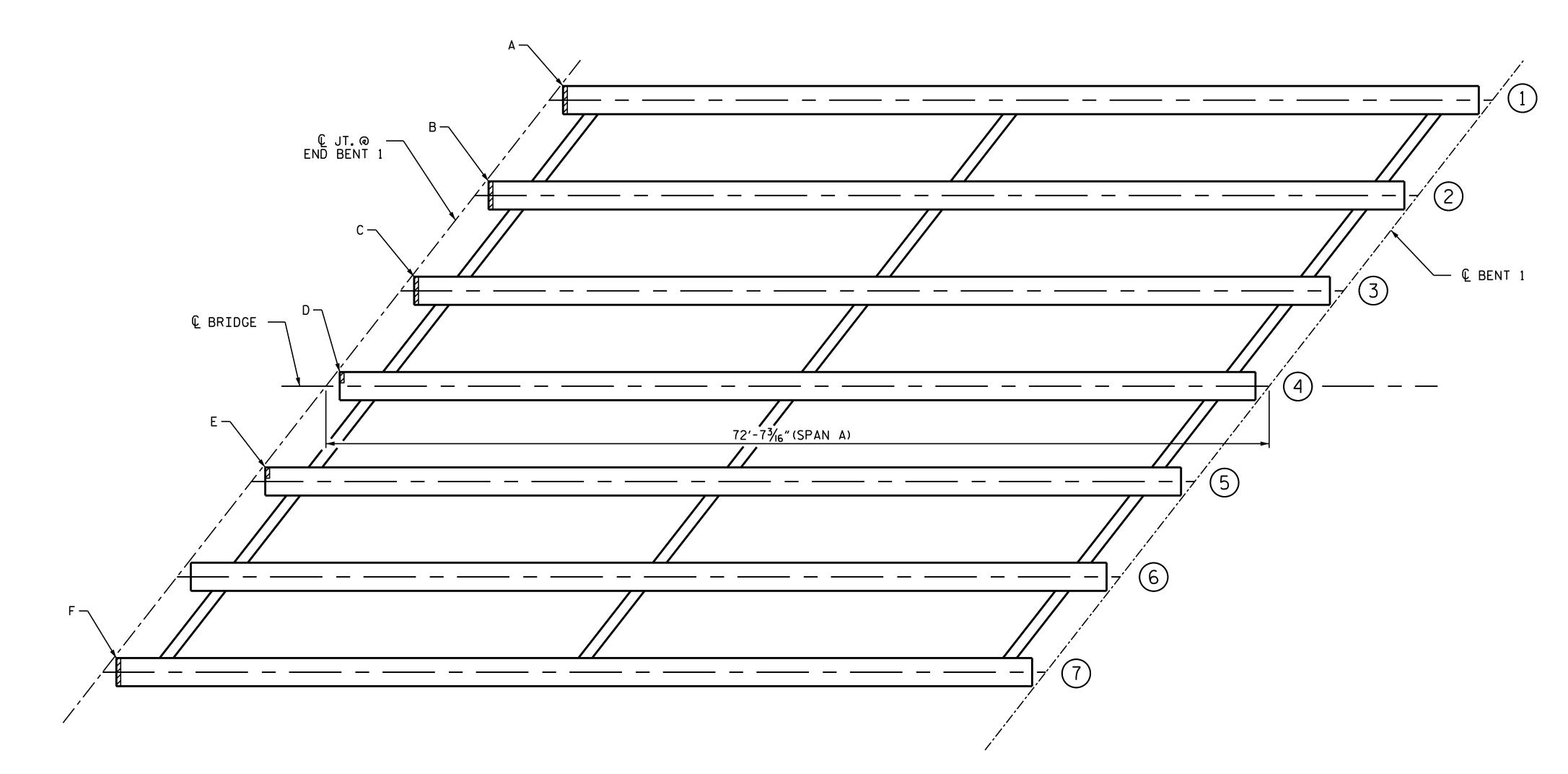
PLAN OF SPANS



DOC

FLAN	UF	SFANS	

7/19/2018	REVISIONS					SHEET NO.	
CUMENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
FINAL UNLESS ALL	1			3			TOTAL SHEETS
SIGNATURES COMPLETED	2			4			21



PRESTRESSED GIRDER REPAIR LOCATIONS (OTHER LOCATIONS MAY EXIST, SEE NOTES)

DRAWN BY :	M. POOLE	DATE :	1/2018
CHECKED BY :	E.K. POPE	DATE :	4/2018

+

+

NOTES

FOR PRESTRESSED GIRDER REPAIR AND PCG EPOXY COATING DETAILS, SEE ``PRESTRESSED GIRDER REPAIR DETAILS'' SHEET S-21.

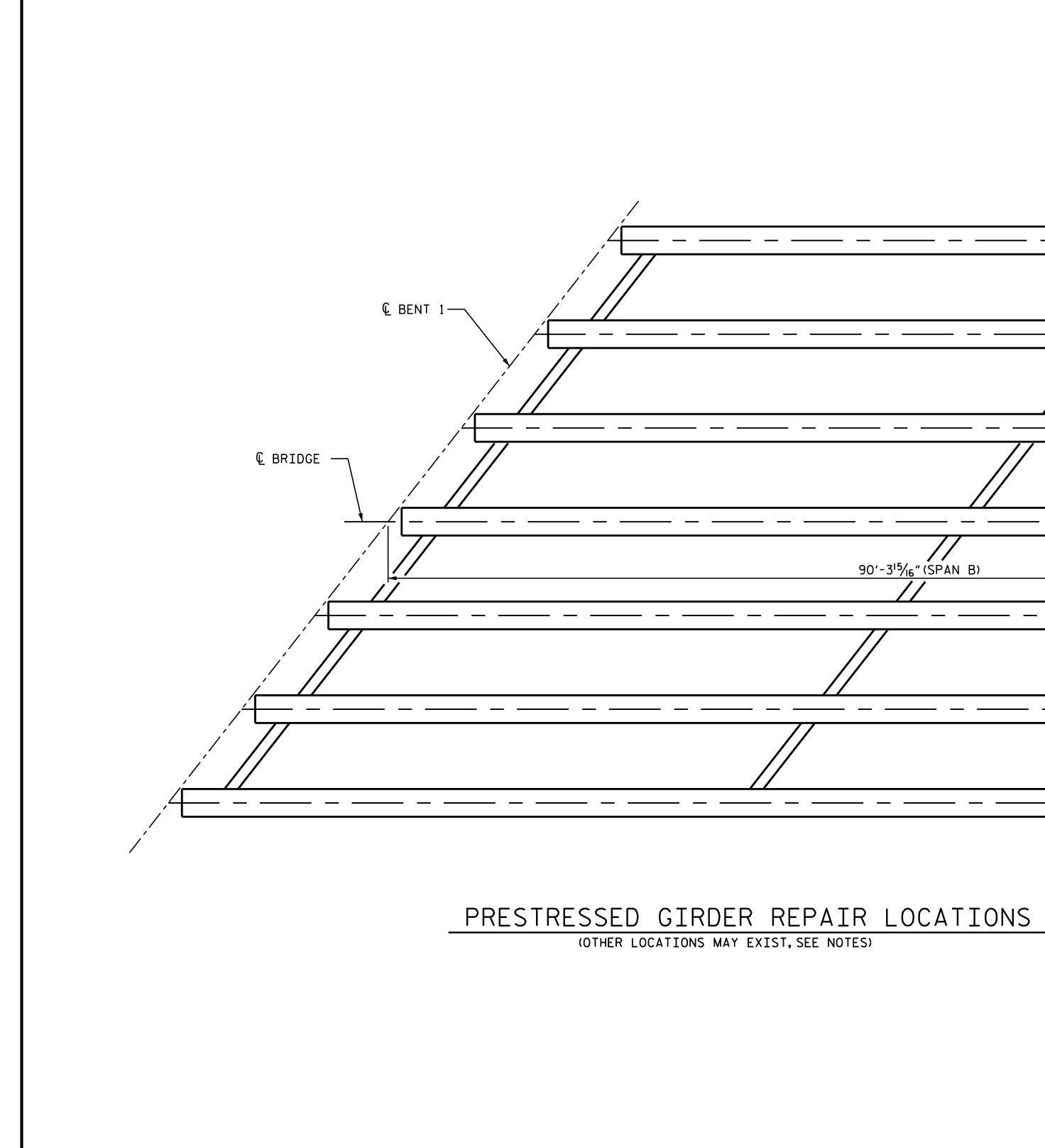
THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE.THE CONTRACTOR,IN CONJUNCTION WITH THE ENGINEER,SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO GIRDER REPAIR.

POTENTIAL REPAIR LOCATION

1 GIRDER NUMBER

GIRDER REPAIR LOCATIONS				
GIRDER	LOCATION	REPAIR SIZE (LXW)	LABEL	
1	BEAM END	5.5 SQ.FT.	Α	
2	BEAM END	5.5 SQ.FT.	В	
3	BEAM END	5.5 SQ.FT.	С	
4	BEAM END	8" X 1'-4"	D	
5	BEAM END	8" X 1'-4"	E	
7	BEAM END	5.5 SQ.FT.	F	

		CKLEN	NBUR(<u>-5827</u> <u>;</u> co)87	7 UNTY
	BRIDG	INU.	~		
	SHEET 1 O	F 3			
TH CARO	DEPA	-	e of north caf OF TRA raleigh	ROLINA NSPORTA	TION
Z O37479 CONEL AS A. 7/19/2018	PRE RE	PAIR	SSED LOC PAN	GIR ATIO A	DER NS
		REVIS		0.475	SHEET NO.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL	NO. ВҮ: 1	DATE:	NO. BY:	DATE:	S-17 TOTAL SHEETS
SIGNATURES COMPLETED	2		0 4		SHEETS 21



DRAWN BY :	M. POOLE	DATE :	1/2018
CHECKED BY :	E.K.POPE	DATE :	4/2018

+

	/		
90'-3 ¹⁵ /16" (SPAN B)		/	√ (5)
			€ BENT 2
		\bigcirc	

NOTES

FOR PRESTRESSED GIRDER REPAIR AND PCG EPOXY COATING DETAILS, SEE ``PRESTRESSED GIRDER REPAIR DETAILS'' SHEET S-21.

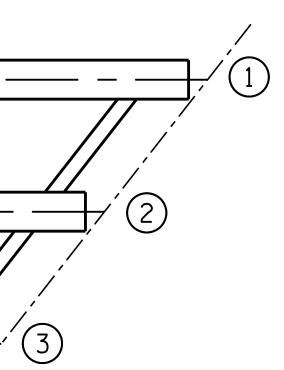
THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE.THE CONTRACTOR,IN CONJUNCTION WITH THE ENGINEER,SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO GIRDER REPAIR.



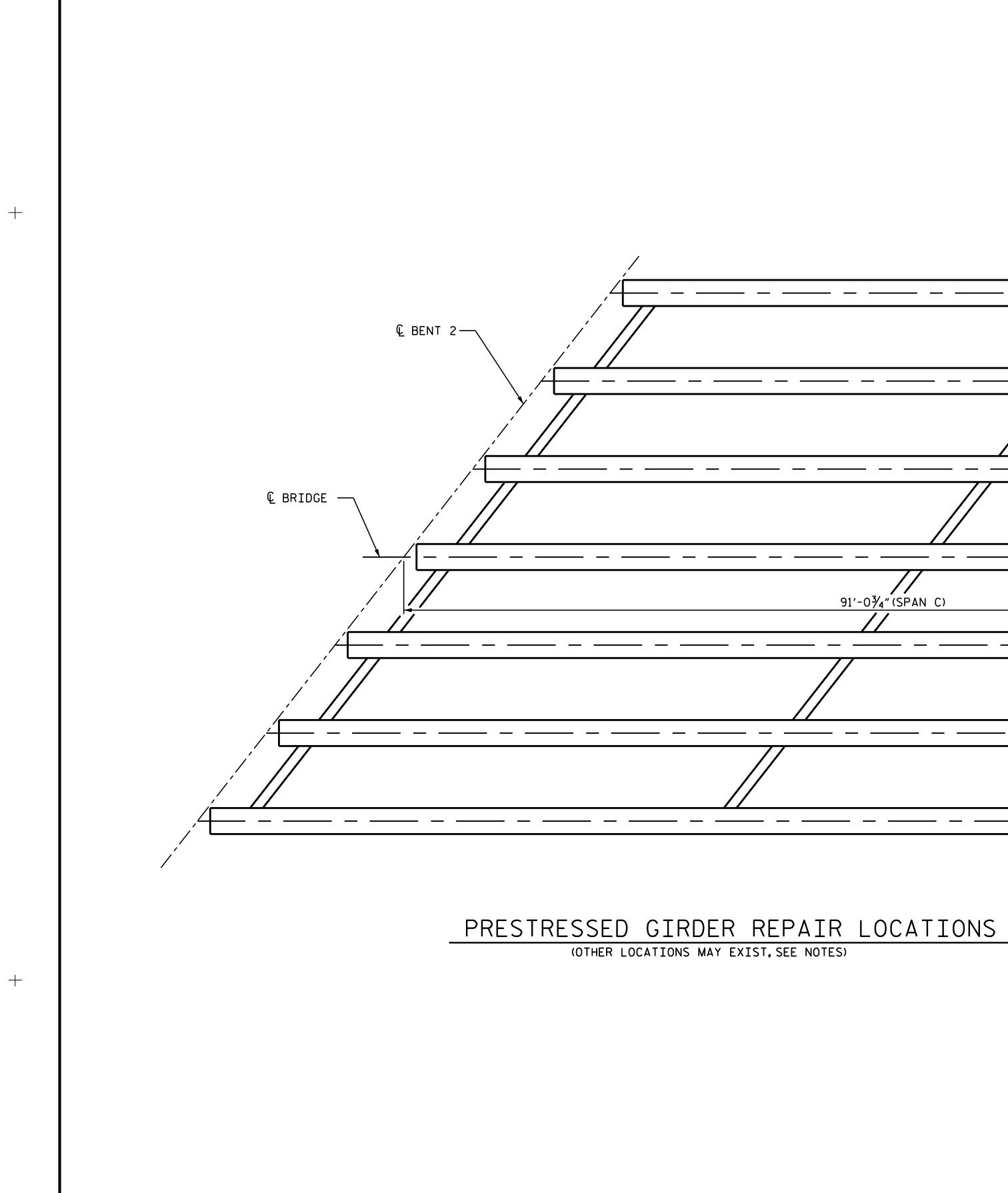
POTENTIAL REPAIR LOCATION



1 GIRDER NUMBER



		CT NO. Cklen			7 UNTY
	BRIDGE	E NO		987	
	SHEET 2 F	3			
RTH CARO	DEPA		e of north OF TR raleigh	ANSPORTA	TION
T/19/2018		PAIR		D GIR CATIO B	
		REVIS	STONS		SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S-18
FINAL UNLESS ALL SIGNATURES COMPLETED	1		3 4		total Sheets 21



DRAWN BY :	M. POOLE	DATE	:	1/2018
CHECKED BY :	E.K.POPE	DATE	:	4/2018

	 	<u> </u>	
	 		-
			/
91'-0¾" (SPAN C)	 		
	 /	(6)	

NOTES

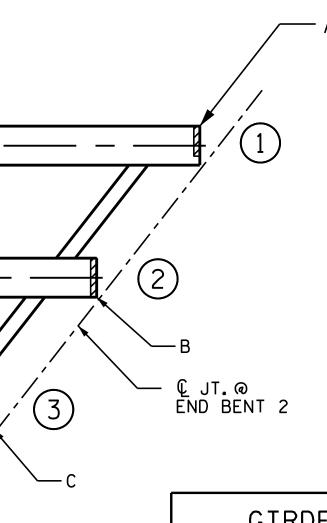
FOR PRESTRESSED GIRDER REPAIR AND PCG EPOXY COATING DETAILS, SEE ``PRESTRESSED GIRDER REPAIR DETAILS'' SHEET S-21.

THE LOCATIONS AND DIMENSIONS OF THE AREAS FOR REPAIR ARE BASED ON THE BEST INFORMATION AVAILABLE.THE CONTRACTOR,IN CONJUNCTION WITH THE ENGINEER,SHALL VERIFY THE LOCATION AND EXTENT OF REPAIR AREAS PRIOR TO GIRDER REPAIR.

POTENTIAL REPAIR LOCATION

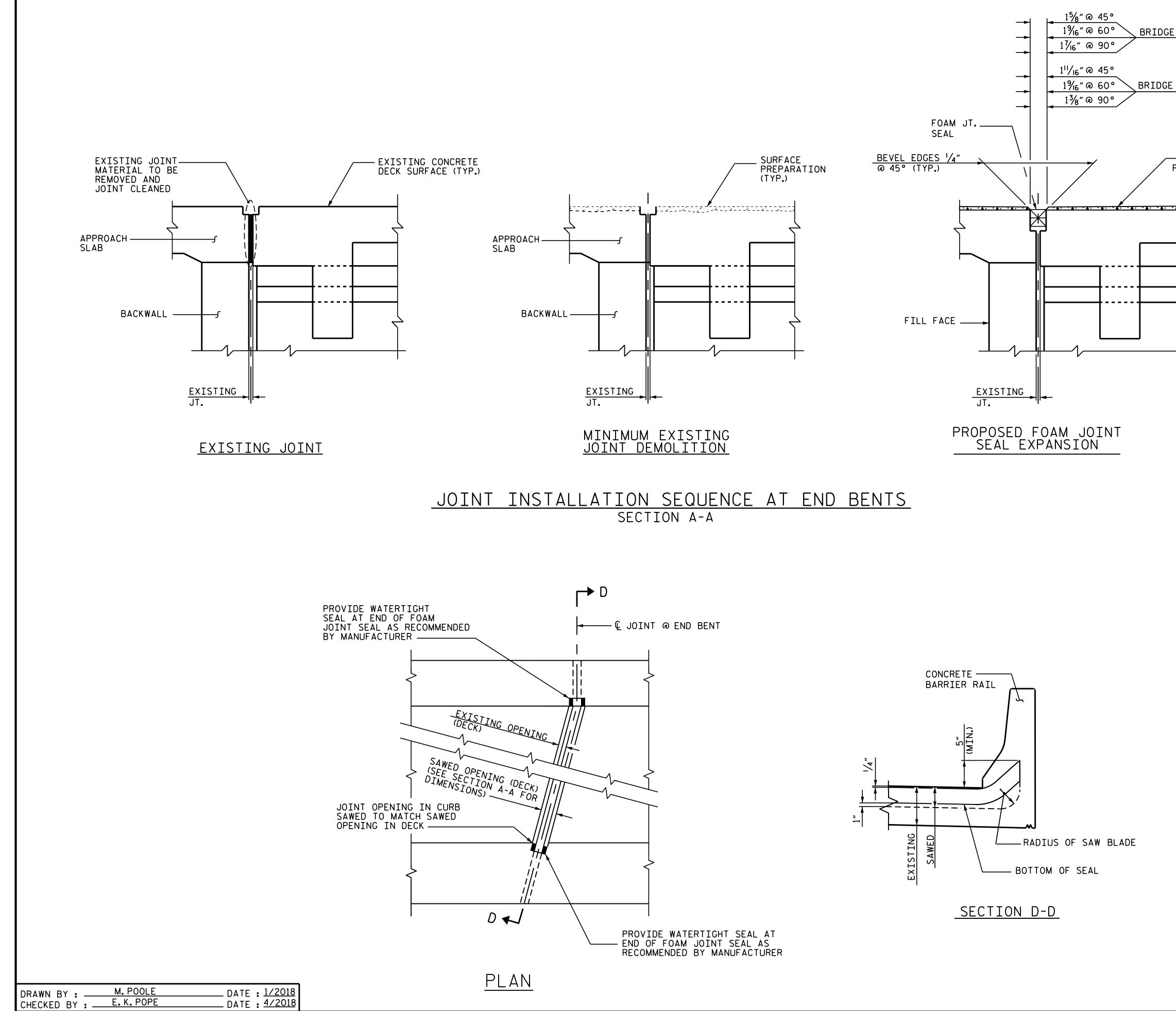


(1) GIRDER NUMBER



GIRDER REPAIR LOCATIONS				
GIRDER	LOCATION REPAIR LABEL			
1	BEAM END	1'-6" X 8"	Α	
2	BEAM END	2'-6" X 1'-0"	В	
3	BEAM END	5.5 SQ.FT.	С	
7	BEAM END	5.5 SQ.FT.	D	

	PROJEC <u>ME</u> BRIDGE	CKLEN E NO		SURC	•	7 UNTY
SEAL O37479 HOUSE AS A. T/19/2018		STRE	OF	RALEIGH	GIR GIR	
		REVIS	SION	IS		SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO.	BY:	DATE:	S-19
FINAL UNLESS ALL	1		3			TOTAL SHEETS
SIGNATURES COMPLETED	2		4			21



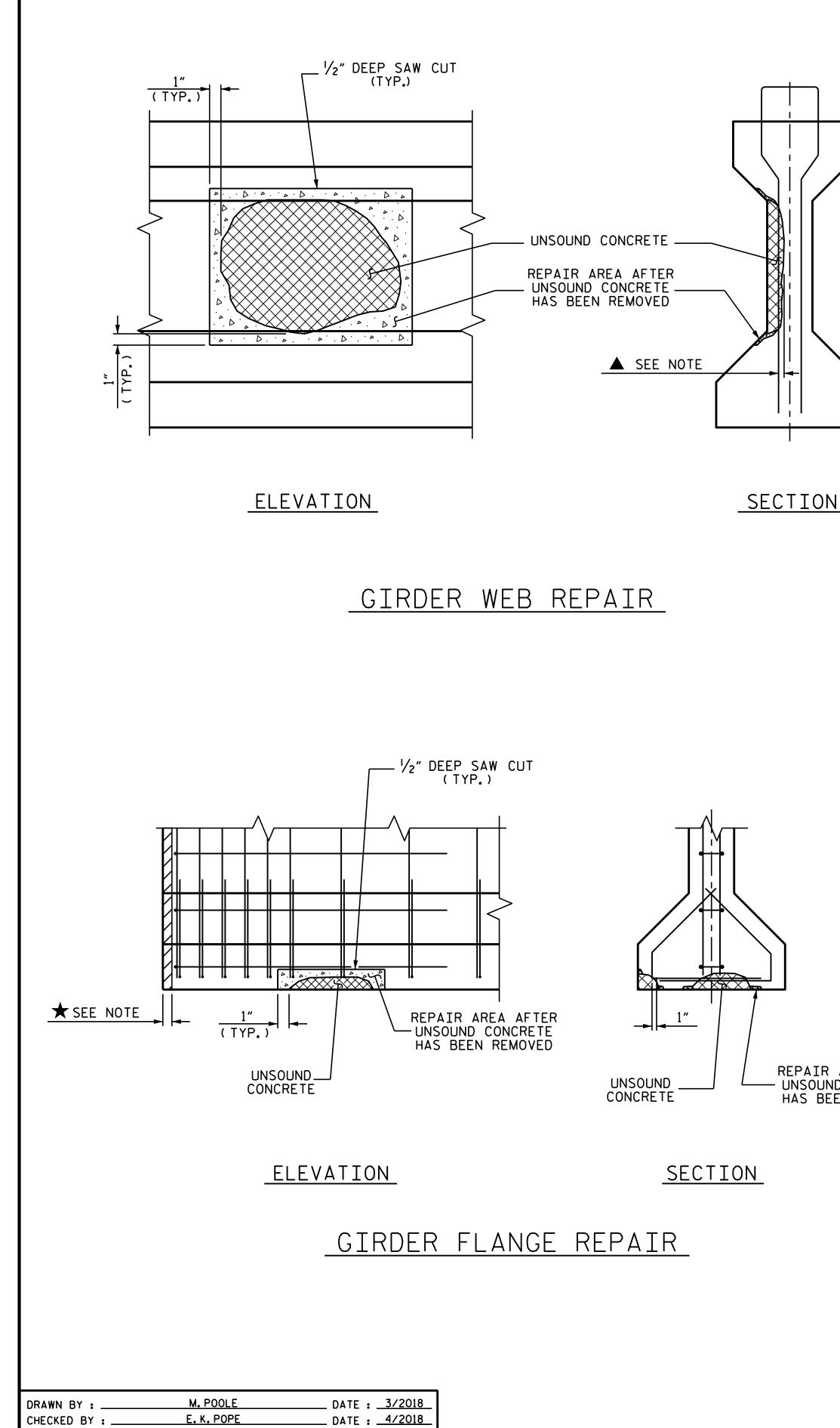
19-JUL-2018 07:26 B:\TIPProjects-I\I5827\Structures\FinalPlans\403_013_I5827_SMU_JD_020_590929.DGN napierce

+

+

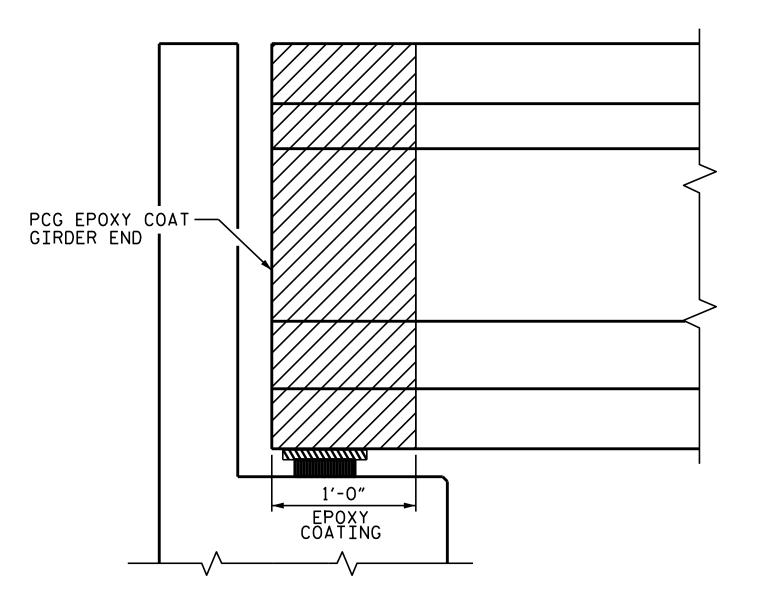
	NOTES
<u>E #929</u>	CONTRACTOR SHALL FIELD VERIFY THE EXISTING JOINT OPENING PRIOR TO OBTAINING JOINT SEAL MATERIAL.IF ACTUAL JOINT OPENING VARIES FROM OPENING INDICATED IN DETAIL BY MORE THAN 1/4", NOTIFY ENGINEER.REVISION TO THE JOINT SEAL SIZE MIGHT BE NECESSARY.
E #986 & #987	FOR FOAM JOINT SEALS, SEE SPECIALS PROVISIONS.
	RETAIN ALL EXISTING REINFORCING STEEL.CLEAN AND REPAIR AS NEEDED.
	THE WIDTH OF THE UNCOMPRESSED FOAM JOINT MATERIAL SHALL BE 2".
— 1″ MIN.	THE INSTALLED FOAM JOINT SEALS SHALL BE WATERTIGHT.
PPC OVERLAY	THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE FOAM JOINT SEAL IN LIEU OF SAWING THE JOINT.
$\sum_{i=1}^{i}$	

	PROJEC						
							JNTY
	BRIDGE	NO.	92	9, 9	86	&	987
	DEPA	stat RTMENT	OF	NORTH CARG TRAN ALEIGH		TAT	ION
NGNET PLAN	J	OINT		Det	AIL	S	
7/19/2018	REVISIONS SHEET NO.					SHEET NO.	
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO.	BY:	DATE:		S-20
FINAL UNLESS ALL SIGNATURES COMPLETED	1		3 4				total sheets 21



+

* GIRDER REPAIR QUANTITIES						
REPAIRS TO PRESTRESSED	QUANTITIES					
CONCRETE GIRDERS	ESTI	ΜΑΤΕ	ACTUAL			
	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.		
BRIDGE #929						
SPAN A	4.7	1.6				
SPAN C	5.7	1.9				
BRIDGE #986						
SPAN A	10.2	3.4				
SPAN C	3.0	1.0				
BRIDGE #987						
SPAN A	24.5	8.2				
SPAN C	15.5	5.2				
TOTAL	63.6	21.3				



REPAIR AREA AFTER - UNSOUND CONCRETE HAS BEEN REMOVED

LIMITS OF PCG EPOXY COATING GIRDER ELEVATION

PCG EPOXY	COATI	NG			
REPAIRS TO PRESTRESSED	QUANTITIES				
CONCRETE GIRDERS	ESTIMATE	ACTUAL			
	AREA SQ.FT.	AREA SQ.FT.			
BRIDGE #929					
SPAN A	77.7				
SPAN C	77.7				
BRIDGE #986					
SPAN A	93.3				
SPAN C	93.3				
BRIDGE #987					
SPAN A	108.8				
SPAN C	108.8				
TOTAL	559.6				

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 2" CLEARANCE TO SAWCUT. FOR POTENTIAL GIRDER REPAIR AREAS, SEE "PRESTRESSED GIRDER REPAIR LOCATIONS" SHEETS.

* QUANTITIES IN CHART ARE BASED OFF KNOWN SPALLED/DELAMINATED GIRDER END LOCATIONS WITH POTENTIAL FOR REMOVED UNSOUND CONCRETE TO BE DEEPER THAN 2 INCHES ALONG THE LENGTH OF THE GIRDER, REQUIRING PRESTRESSED GIRDER REPAIRS.

NOTES

FOR REPAIRS TO PRESTRESSED CONCRETE GIRDERS, SEE PECIAL PROVISIONS. ALL UNSOUND CONCRETE MUST BE REMOVED, HOWEVER, PRESTRESSED STRANDS A SHOULD NOT BE DISTURBED UNLESS ABSOLUTELY NECESSARY. THE CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE STRANDS.

FOR PCG EPOXY COATING AND DEBRIS REMOVAL, SEE SPECIAL PROVISIONS.

ALL UNSOUND CONCRETE MUST BE REMOVED. HOWEVER, ONLY GIRDER ENDS WITH AREAS DEEPER THAN 2 INCHES ALONG THE LENGTH OF THE GIRDER SHALL REQUIRE PRESTRESSED GIRDER REPAIRS.

	PROJ.N <u>ME(</u> BRIDGE	CKLE	NE	BURG	<u>,</u> CO	UNTY 987
SE OSTAT9 WILLING OSTAT9 WILLING OSTAT9 WILLING AS A. TUILING 7/19/2018	DETAILS					
						SHEET NO.
CUMENT NOT CONSIDERED	NO. BY:	DATE:	NO.	BY:	DATE:	S-21
FINAL UNLESS ALL	1		3			TOTAL SHEETS
SIGNATURES COMPLETED	2		4			21

DESIGN DATA:

+

+

SPECIFICATIONS	A.A.S.H.T.O. (CURRENT)
LIVE LOAD	SEE PLANS
IMPACT ALLOWANCE	SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF STRUCTURAL STEEL - AASHTO M270 GRADE 36	20,000 LBS.PER SO.IN.
- AASHTO M270 GRADE 50W	27,000 LBS.PER SQ. IN.
- AASHTO M270 GRADE 50	27,000 LBS.PER SQ. IN.
REINFORCING STEEL IN TENSION - GRADE 60	24,000 LBS.PER SQ.IN.
CONCRETE IN COMPRESSION	1,200 LBS.PER SO.IN.
CONCRETE IN SHEAR	SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR UNTREATED EXTREME FIBER STRESS	1,800 LBS.PER SQ.IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER	375 LBS.PER SQ.IN.
EQUIVALENT FLUID PRESSURE OF EARTH	30 LBS.PER CU.FT. (MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2018 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 11/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A $\frac{1}{4}$ RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

STANDARD NOTES

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE.

ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS. AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE $\frac{1}{8}$ " Ø SHEAR STUDS FOR THE 3/4" Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 - $\frac{1}{8}$ " Ø STUDS FOR 4 - $\frac{3}{4}$ " Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 1/8" Ø STUDS ALONG THE BEAM AS SHOWN FOR $\frac{3}{4}$ " Ø STUDS BASED ON THE RATIO OF 3 - $\frac{7}{8}$ " Ø STUDS FOR 4 - $\frac{3}{4}$ " Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-O".

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION. SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 5/16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2"OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY V_{16} INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.

