



STATE	ST/	TE PROJECT REFERENCE NO.	SHEET NO.	TOTAL Sheets			
N.C.		15BPR.51					
STAT	'E PROJ. NO.	F. A. PROJ. NO.	DESCRIPT	ION			
15	BPR.51	_	P.E.				
15	BPR.51	_	CONST.				

: ISBPR.51		LOCATIO	N OF BRID
PROJECT	SHEET No. DES	<u>CRIPTION</u> LE SHEET EX OF SHEETS	INDE
NO.: C204452	S-1 TOT: <u>STRUCTURE No.</u> <u>SHEET No.</u> <u>S1-01</u> <u>S1-02</u> <u>S1-03</u> <u>S1-04</u> <u>S1-05 THRU S1-1</u> <u>S1-14</u> <u>S1-15</u> <u>S1-16</u> <u>S1-17</u> <u>S1-18</u>	AL BILL OF MATERIALS .330046 DESCRIPTION GENERAL DRAWING GENERAL DRAWING GENERAL DRAWING TYPICAL SECTION 10 DECK SURFACE REPAIR 3 DECK UNDERSIDE REPAIR JOINT DETAILS JOINT DETAILS END BENTS BENT 1 BENT 2	STRUCTU SHEET N S2-01 S2-02 S2-03 THI S2-05 THI S2-08 THI S2-11 S2-12 S2-13 S2-14
CONTRACT	NORTH CA		

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# **GASTON COUNTY**

GES: NO. 350046 ON US29 & US74 SBL OVER I-85 NBL NO. 350314 ON US29 & US74 SBL OVER I-85 SBL NO. 350086 ON US 74 EBL OVER I-85 NBL NO. 350066 ON NC 27 OVER THE CATAWBA RIVER

# EX OF STRUCTURES SHEETS

URE No. 330314

STRUCTURE No. 330086

<u>lo.</u>	DESCRIPTION	SHEET No.	DESCRIPTION		SHEET N	<u>.</u>	DESCRIPTION
	GENERAL DRAWING	<i>S3–01</i>	GENERAL DRAWIN	NG	<i>S4–01</i>		GENERAL DRAWING
	GENERAL DRAWING	<b>S3-02</b>	GENERAL DRAWIN	NG	<b>S4–02</b>		GENERAL DRAWING
<b>RU</b> S2–6	04 TYPICAL SECTION	<i>S3–03</i>	TYPICAL SECTION		<i>S4–03</i>		GENERAL DRAWING
<b>RU</b> S2–6	07 DECK SURFACE REPAIR	S3–04 THRU	S3-06 DECK SURFACE I	REPAIR	<i>S4–04</i>		TYPICAL SECTION
<b>RU</b> S2–2	10 DECK UNDERSIDE REPAIR	<b>S3–07 THRU</b>	S3-09 DECK UNDERSIDI	E REPAIR	S4-05 TH	RU S4-10	DECK SURFACE REPAIR
	JOINT DETAILS	<i>S3–10</i>	BEARING KEEPER	DETAIL			
	END BENTS	<i>S3–11</i>	JOINT DETAILS				
	BENT 1	<b>S3–12</b>	END BENT 1				
	BENT 2	S3–13 THRU	S3-14 BENT 1	BRIDGE DI	EIAILS		
		<b>S3–15 THRU</b>	S3-16 BENT 2	SHEET No.		DESCRII	PTION
				<u></u>			
				S-60 THRU	<b>S–63</b>	BEAM PL	ATING REPAIR DETAILS
				S-64		OVERHAN RAIL REP	G, DIAPHRAGM AND BRII PAIRS DETAILS
				<b>S–65</b>		DECK DR	AIN REPAIR DETAILS
				<b>S–66</b>		CROSS FI	RAME REPAIR DETAILS



	NO.	SHEETS	
5BPR.55	1A		
F. A. PROJ. NO.	DESCRIPTION		
	P.E		
	CON	ST.	
	- 3 B F K . 3 3 F. A. PROJ. NO.	- 5 BPK. 55 I.A P.A.PROJ. NO. DESCRIPT P.E CON	

### STRUCTURE No. 330066

**S–67** 

DGE CROSS FRAME REPAIR DETAILS TYPICAL CAP AND COLUMN REPAIR DETAILS STANDARD NOTES

> Prepared in the Office of: **DIVISION OF HIGHWAYS** STRUCTURES MANAGEMENT UNIT 1000 BIRCH RIDGE DR. RALEIGH, N.C. 27610

BRIDGE NO.	GROOVING BRIDGE FLOORS	POLLUTION CONTROL	CLASS II, SURFACE PREPARATION	CONCRETE REPAIRS	SHOTCRETE REPAIRS	EPOXY RESIN INJECTION
	SQ.FT.	LUMP SUM	SQ. YDS.	CU.FT.	CU.FT.	LIN.FT.
350046	10,963	LUMP SUM	0.3		125.0	9.0
350314	12,367	LUMP SUM	0.4		175.7	2.5
350086	11,316	LUMP SUM	12.7	2.6	123.3	
350066						
TOTAL	34,646	LUMP SUM	13.4	2.6	424.0	11.5

TOTAL BILL OF MATERIAL												
BRIDGE NO.	SURFACE PREPARATION FOR CONCRETE SUBSTRUCTURE	SILANE SUBSTRUCTURE TREATMENT	EPOXY COATING	PLACING & FINISHING OF LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH	SCARIFYING BRIDGE DECK	HYDRO- DEMOLITION OF BRIDGE DECK	SHOTBLASTING BRIDGE DECK	SILANE DECK TREATMENT	STEEL BEARING KEEPER ANGLE ASSEMBLY	DECK DRAIN REPAIR		
	SQ.FT.	SQ.FT.	SQ.FT.	SQ. YDS.	SQ.YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	EA.	EA.		
350046			844.4	1,331.0	1,331.0	1,331.0	864.0	864.0	1			
350314	426.0	426.0	542.0	1,457.0	1,457.0	1,457.0				1		
350086	317.1	317.1	446.0	1,390.0	1,390.0	1,390.0			2			
350066							4,512.5	4,512.5				PROJECT NO. 15BPR.51
TOTAL	743.1	743.1	1,832.4	4,178.0	4,178.0	4,178.0	5,376.5	5,376.5	3	1		GASTON COUNTY
									DocuSigned by:		DocuSigned by:	BRIDGE NO. 40, 514, 00, 00
									Kevin Fisch ED19A18D98EC496	her 	02EE938FAB674C5	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
									SEAL 30878		SEAL 35647	τοταί βτιι
									TEUN FISC	HC IN	THE TO AM A. COLUMNIUM	OF MATERIAL
									01/25/2022		01/25/2022	
										r	DACUMENT NAT CONSTREPT	REVISIONSSHEET NO.NO.BY:DATE:S-O1
											FINAL UNLESS ALL SIGNATURES COMPLETED	1 3 TOTAL SHEETS 67

DRAWN BY :	GHOLAMREZA KOUCHEKI	DATE : <u>12/2021</u>
CHECKED BY : _	H.A. LOCKLEAR	DATE : <u>12/2021</u>





IC ON	BEAM REPAIR PLATING	BOLTED BEAM REPAIR	BRIDGE JOINT DEMOLITION	SURFACE PREPARATION FOR CONCRETE BARRIER	SILANE BARRIER RAIL TREATMENT
	LBS.	LBS.	SQ.FT.	SQ.FT.	SQ.FT.
	222.0		211.6	3,171.0	3,171.0
	29.0	11.0	268.3	1,717.9	1,717.9
	244.0	493.0	239.0		
				2,509.0	2,509.0
	495.0	504.0	718.9	7,397.9	7,397.9



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	IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOR REQUIREMENTS.	OLLOW ALL STATE AND FEDERAL SAFETY	
POR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MARGEMENT PLANS.  DURING CONTRUCTOR METRY OF APPROPRIATE MASURES SHALL BE USED TO ENSURE  MYDAMAGE TO EXISTING PERFORMENT STELL DURING CONTRACTOR'S OPERATIONS, SHALL BE DEPARTMENT.  POR SCAPETY HIND BETTOR EXECUTED STORM CEREBAL AND PERFORMED AT NO ADDITIONAL COST TO THE  PREPARATION, SEE LINC-VES OVERLAY SURFACE PREPARATION SPECIAL PROVISION.  POR SCAPETY HIND BETTOR EXECUTION COLLECT, TERAT AND DISPOSE OF RUN-OFF WATER FROM THE  PREPARATION, SEE LINC-VES OVERLAY SURFACE PREPARATION SPECIAL  PROVISION:  HE CONTRACTOR MUST COLLECT, TERAT AND DISPOSE OF RUN-OFF WATER FROM THE  PREPARATION, SEE LINC-VES OVERLAY SURFACE PREPARATION SPECIAL  PROVISION:  HE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW  HINDLON FOR ESSES LINC-VES OVERLAY SURFACE PREPARATION  SET IN JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO RECONNING SURFACE  ONSTRUCTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW  HINDLONG OF THE DECK.  FOR DURING TOR SUBJECT TO THE DEVILAY SUFFACE OF DEBITS.  FOR BRIDGE JOINT BAND, DECK DRAINS SHALL BE SEALED PRIOR TO RECONNING SURFACE  ONSTRUCTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW  HINDLONG OF THE DECK.  FOR BRIDGE JOINT BAND, SEE SPECIAL PROVISIONS.  FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.  FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.  FOR SLAME DARGEMENT AND FORMORY, SEE SPECIAL PROVISIONS.  FOR SUBMUTATION FRANCESSEE SPECIAL PROVISIONS.  FOR SUBMUTATION SEE SPECIAL PROVISIONS.  FOR SUBMUTATION FRANCESSEE SPECIAL PROVISIONS.  FOR SUBMUTATION FRANCESSEE SPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENCES SEPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENSEE SPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENSE SEPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENSE SEPECIAL PROVISIONS.  FOR SUBMUTATION SEE SPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENSE SEPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENSE SEPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENSE SEPECIAL PROVISIONS.  FOR SUBMUTATION FRANCENSE	THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOE TRANSPORTATION FOR ANY DELAYS OR ADDITION BETWEEN THAT SHOWN ON THE PLANS AND THE AC	VER AGAINST THE DEPARTMENT OF AL COST INCURRED BADED ON DIFFERENCES TUAL CONDITIONS AT THE PROJECT SITE.	
	FOR CONTROL OF TRAFFIC AND LIMITS ON PHASI MANAGEMENT PLANS.	NG OF CONSTRUCTION, SEE TRANSPORTATION	
	DURING CONSTRUCTION, BERMS OR APPROPRIATE N HYDRO-DEMOLITION WATER DOES NOT MIGRATE IN	MEASURES SHALL BE USED TO ENSURE NTO ACTIVE TRAVEL LANES	
POR SCATTYING BEDOCE DECK, HYGORO-DEMOLITION OF BROED DECK, AND CLASS LI SUBFACE PREPARATION, SEE LMC-VES OVERLAY SUBFACE PREPARATION SPECIAL PROVISION. THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUM-OFF WATER FROM THE PROVISION. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING LMEXPECTED BLOW THOOGH OF THE BETCO. EXISTING JOINTS AND DECK DECK THE CONTRACTOR SHALL TAKE CARE THAT ANY PREPARATION OF THE BETCO DECK THE CONTRACTOR SHALL TAKE CARE THAT ANY TOONS THAT THE DECK. EXISTING JOINTS AND DECK DECK THE CONTRACTOR SHALL TAKE CARE THAT ANY FOR BRIDOE JOINT DEMOLITION, SEE SPECIAL PROVISIONS. FOR REDOCE JOINT DEMOLITION, SEE SPECIAL PROVISIONS. FOR OVERLAY OF BRIDOE WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENCH, SEE SPECIAL PROVISIONS. FOR OVERLAY OF BRIDOE WITH LATEX MODIFIED CONCRETE-VERY EARLY STRENCH, SEE SPECIAL PROVISIONS. FOR FOUN JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS. FOR FALSENORK AND FORMNORK, SEE SPECIAL PROVISIONS. FOR GOUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. FOR SUBJECT CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS. FOR SUBJECT REPARTS, SEE SPECIAL PROVISIONS. FOR SINCE CONCRETE REPAIRS, SEE SPECIAL PROVISIONS. FOR SINCE CONCRETE REPAIRS, SEE SPECIAL PROVISIONS. FOR SINCE CONCRETE REPAIRS, SEE SPECIAL PROVISIONS. FOR SILANE BARRIER RAIL TREATMENT, SEE SPECIAL PROVISIONS. FOR FOUNTABLE SILTIONE WATHERING STELL STRUCTURES, SEE SPECIAL PROVISIONS. FOR FOUNTABLE SILTIONE JOINT SEALANT, SEE SPECIAL PROVISIONS. FOR POURABLE SILTONE SECONT SILARE DECK TREATMENT, SEE	ANY DAMAGE TO EXISTING REINFORING STEEL, DU REPAIRED AS DIRCTED BY THE ENGINEER AND PER DEPARTMENT.	RING CONTRACTOR'S OPERATIONS SHALL BE RFORMED AT NO ADDITIONAL COST TO THE	
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CONCRETE BARRIER RAIL	0.8	0.4	1					
SILANE BARRI	ER RAIL	_ TRE	ATM	1ENT - S	SPAN A			
			ES	STIMATE	ACTUAL			
SURFACE PREPARATION FOR	CONCRETE BAF	RIER	374.	U SQ.FT.				
SILANE DAKKIEK KAIL IKEA			.4)ر	U SU.FI.				
NOTES								
REPAIR LOCATIONS AND E INFORMATION AVAILABLE. DRAWINGS ARE DEEMED NE NOTE ON THE DRAWINGS T THE REPAIRS AND ENTER REPAIR QUANTITY TABLE.	STIMATE OF IF ADDITIO CESSARY BY HE APPROXIN THE ACTUAL	QUANT NAL REF THE EN MATE LO QUANTI	ITIES PAIRS IGINEE CATIO TIES	ARE BASED NOT SHOWN ER, THE ENGI ONS AND DE INTO THE A	ON THE BEST I ON THE INEER WILL SCRIPTION OF AS-BUILT			
FOR SECTION A-A AND B-E	JOEACE DDED		LS SF	BASED ON T	тис			
SQUARE FEET OF ADDITION	NAL DEMOLIT	ION RE		D FOLLOWI	NG			
FOR IMC-VES OVERIAY SEE	SPECTAL PL			TAL TROVIS	510113.			
FOR STLANE BARRIER RATI	TREATMENT	SFF S	PECIA		)NS.			
FOR BRIDGE JOINT DEMOLT	TTON SEE S	PECTAL	PROV	TSTONS.				
		LOINE	11101	101010.				
	BRIDGE JO	)INT DE	MOLI	TION				
	CLASS II	SURFAC	e pre	PARATION				
		FCT	NO	15B	PR.51			
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		θA	S I					
BRIDGE: 350046								
SHEET 1 OF 6								
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DECK SURFACE REPAIR SEAL 35647 DECK SURFACE REPAIR SPAN A 01/25/2022								
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# NOTES

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES AREBASED 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 SECTION B-B, SEE JOINT DETAILS SHEET.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE FEET OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK, SEE SPECIAL PROVISIONS.

FOR LMC-VES OVERLAY, SEE SPECIAL PROVISIONS.

FOR SILANE BARRIER RAIL TREATMENT, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.



BRIDGE JOINT DEMOLITION



CLASS II SURFACE PREPARATION

LIMITS OF SCARIFICATION, HYDRO-DEMOLITION AND LMC-VES OVERLAY

110'-0" (SPAN B)

SPAN B

AS-BUILT R	EPAIR	QL	JAN	TITY	Ť	ABLE
DECK SUR	FACE RE	PAIR	- 5	SPAN B		
			ES	STIMATE		ACTUAL
CLASS II SURFACE PREPARAT	ION		0.0	SQ.YDS.		
SCARIFYING BRIDGE DECK			580.	O SQ.YDS	a	
HYDRO-DEMOLITION OF BRIDG	E DECK		580.0	D SQ.YDS.		
LATEX MODIFIED CONCRETE -	VES		24.	2 CU.YDS.		
PLACING & FINISHING LMC-	ES OVERLAY		580.	O SQ.YDS	•	
GROOVING BRIDGE FLOORS			4866	.0 SQ.FT.		
SHOT	CRETE R	EPAII	RS ·	- SPAN	В	
	ESTI	ΜΑΤΕ			ACTU	4L
	AREA SQ.FT.	VOLUN CU. F	ИЕ Т.	AREA SQ.FT	•	VOLUME CU.FT.
CONCRETE BARRIER RAIL	0.0	0.0	)			
SILANF BARRTF	R RATI	TRFA	TMF	NT- SF	PAN	B
						ΔΟΤΙΙΛΙ
				4 0 C 0 ET		ACTUAL
SURFALE PREPARALLUN FUR C	MENT	RRIFK	оч4  дл.	4 0 C 5 F 1	•	
SILANE DARRIER RAIL IREAT			0	1.0 30.11	•	
	JOINT BENT 2					
	PROJ	ect GA	NO. ST	<u>15</u> 0N	<u>BPF</u>	<. <u>51</u>
	BRID	GE N	0	350	104	0
	SHEET 2	<u>2 OF 6</u>				
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			RFVTS	IONS		SHEFT NO.
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AS-BUILT REPAIR QUANTITY TABLE						
DECK SUR	FACE RE	PAIR	2 –	SPAN C	>	
				STIMATE	A	CTUAL
CLASS II SURFACE PREP	ARATION		0.	O SQ. YDS	•	
SCARIFYING BRIDGE DECH	<		267	.0 SQ. YDS	•	
HYDRO-DEMOLITION OF B	RIDGE DECK		267.	O SQ. YDS		
LATEX MODIFIED CONCRET	TE-VES		11.0	O CU.YDS.		
PLACING & FINISHING L	MC-VES OVEF	RLAY	267.	O SQ. YDS.	•	
SUOTO	» Dete de		<			
38010			- :			
	EST.					
	AREA SQ.FT.	VOLUI CU. F	ME T.	AREA SQ.FT	. (	OLUME CU.FT.
CONCRETE BARRIER RAIL	0.0	0.0	)			
SILANE BARRI	ER RAIL	TRE	ATN	1ENT -	SPAN	С
			ES	STIMATE	A	CTUAL
SURFACE PREPARATION FOR	CONCRETE BAR	RIER	389.0	0 SQ.FT.		
SILANE BARRIER RAIL TREA	IMENI		389.0	U SQ.FT.		
NOTES						
REPAIR LOCATIONS AND ES	STIMATE OF	QUANTI	TIES	ARE BASE		E BEST
INFORMATION AVAILABLE. DRAWINGS ARE DEEMED NEG	IF ADDITION	NAL REF	PAIRS GINEF	NOT SHOW	N ON TH	E /TII
NOTE ON THE DRAWINGS THE REPAIRS AND ENTER T	HE APPROXIN	ATE LO QUANTI	CATIC TIES	ONS AND D INTO THE	ESCRIPT AS-BUIL	ION OF
REPAIR QUANTITY TABLE.						
FOR SECTION A-A AND B-E	B, SEE JOINT	DETAI	LS SH	EET.		
PAYMENT FOR CLASS II SU SQUARE FEET OF ADDITION	JRFACE PREP	ARATIO ION RE	N IS QUIRE	BASED ON D FOLLOW	THE ING ISTONS	
FOR I MC-VES OVERIAY SEE				IAL TROV.	1310113.	
FOR STLANE BARRIER RATI					TONS	
FOR BRIDGE JOINT DEMOLT	TTON SEE S	PECTAI				
FOR BRIDGE JOINT DEMOLI	TION, SEE S	FECIAL	FRUV	131003.		
	BRIDGE	JOINT	DEMO	LITION		
	CLASS I	I SURF <i>I</i>	ACE PF	REPARATIC	)N	
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		UA				
	BRID	GE N	0	350	1046	
	SHEET .	3 OF 6				
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DECK SURFACE REPAIR						
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AS-BUILT REPAIR QUAN	NTITY TABLE	AS-BUILT REPAIR QUANTITY TABLE			
DECK SURFACE REPAIR - APP.	SLAB @ END BENT #1	DECK SURFACE REPAIR - APP.S	SLAB @ END	BENT #2	
	ESTIMATE ACTUAL		ESTIMATE	ACTUAL	
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.	CLASS II SURFACE PREPARATION	0.3 SQ. YDS.		
SCARIFYING APPROACH SLABS	117.0 SQ. YDS.	SCARIFYING APPROACH SLABS	110.0 SQ. YDS.		
HYDRO-DEMOLITION OF APPROACH SLABS	117.0 SQ. YDS.	HYDRO-DEMOLITION OF APPROACH SLABS	110.0 SQ. YDS.		
LATEX MODIFIED CONCRETE - VES	4.9 CU.YDS.	LATEX MODIFIED CONCRETE - VES	4.6 CU.YDS.		
PLACING & FINISHING LMC-VES OVERLAY	117.0 SQ. YDS.	PLACING & FINISHING LMC-VES OVERLAY	110.0 SQ. YDS.		
GROOVING BRIDGE FLOORS	826.0 SQ.FT.	GROOVING BRIDGE FLOORS	887.0 SQ.FT.		
SILANE BARRIER RAIL	TREATMENT	SILANE BARRIER RAIL TREATMENT			
SURFACE PREPARATION FOR CONCRETE BARRIER	161.0 SQ.FT.	SURFACE PREPARATION FOR CONCRETE BARRIER	161.0 SQ.FT.		
SILANE BARRIER RAIL TREATMENT	161.0 SQ.FT.	SILANE BARRIER RAIL TREATMENT	161.0 SQ.FT.		

# NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSSARY 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" SHEET.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE FEET OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.

FOR LMC-VES OVERLAY, SEE SPECIAL PROVISIONS.

FOR SILANE BARRIER RAIL TREATMENT, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.



BRIDGE JOINT DEMOLITION



CLASS II SURFACE PREPARATION

	PROJECT NO. 15BP GASTON BRIDGE NO. 35004 Sheet 4 of 6	R.51 county 16
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AS-BUILT REPAIR QUANTI	TY TABLE				
ECK SURFACE REPATE - PAVEMENT		<u>з &amp; с</u>			
ASTING RRIDGE DECK	416 00 50 YD	ACTUAL			
TE DECK REPAIR FOR SILANE DECK TREATMENT	0.0 CU.FT.				
DECK TREATMENT	416.00 SQ.YD.				
SILANE BARRIER RAIL	TREATMENT				
E PREPARATION FOR CONCRETE BARRIER	598.0 SQ.FT.				
BARRIER RAIL TREATMENT	598.0 SQ.FT.				
NOTES: REPAIR LOCATIONS AND ESTIMATED QUANTITIES A INFORMATION AVAILABLE. IF ADDITIONAL REPAIR DRAWINGS ARE DEEMED NECESSARY BY THE ENGINE ON THE DRAWINGS THE APPROXIMATE LOCATIONS A REPAIRS AND ENTER THE ACTUAL QUANTITIES INT DUANTITY TABLE. FOR SECTION D-D, SEE "JOINT DETAILS" SHEET. FOR SILANE DECK TREATMENT, SEE SPECIAL PROVI FOR SILANE BARRIER RAIL TREATMENT, SEE SPECI ORIGINAL DECK SURFACE	ARE GIVEN WITH S NOT SHOWN ON ER, THE ENGINEER AND DESCRIPTION O THE AS-BUILT SIONS. AL PROVISIONS. AL PROVISIONS.	THE BEST THE WILL NOTE OF THE REPAIR EATMENT E			
DETAIL OF SILANE DECK TREATMENT					
PROJECT GA BRIDGE N BRIDGE N SEEDERALD DUZSZOZ	NO. 15B STON 0. 3500 state of north carolin ent of trans raleigh ENT SLAE SURFACE	PR.51 COUNTY 046 PORTATION B A, B, C REPAIR BATE: SHEET NO. S1-09			
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AS-BUILT REPAIR QUANTIT	Y TABLE	
ECK SURFACE REPAIR - PAVEMENT	SLABS D,E	<b>,</b> & F
	ESTIMATE	ACTUAL
ASTING BRIDGE DECK	448.00 SQ.YD.	
TE DECK REPAIR FOR SILANE DECK TREATMENT	0.0 CU.FT.	
DECK TREATMENT	448.00 SQ.YD.	
SILANE DARRIER RAIL IREA		
PREPARATION FOR CONCRETE BARRIER	644.0 SQ.FT.	
BARRIER RAIL IREAIMENI	644.0 SQ.FI.	
		1
NOTES:		
REPAIR LOCATIONS AND ESTIMATED QUANTITIES	ARE GIVEN WITH	THE BEST
ARE DEEMED NECESSARY BY THE ENGINEER, THE END DRAWINGS THE APPROXIMATE LOCATIONS AND DES	IGINEER WILL NO	TE ON THE E REPAIRS AND
ENTER THE ACTUAL QUANTITIES INTO THE AS-BU	ILT REPAIR QUAN	NTITY TABLE.
FOR STLANF DECK TREATMENT SEE SPECIAL PROVI	ISTONS.	
FOR SILANE BARRIER RAIL TREATMENT, SEE SPECI	IAL PROVISIONS.	
EXISTING PR	ROPOSED	
ORIGINAL DECK	-SILANE DEC	K TREATMENT
<u></u>	¥	ן ו
DETAIL OF DECK TREA	TMENT	
PROJECI		
GA	SIUN	COUNTY
BRIDGE N	o. 3500	046
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THE CAROLINE	RALEIGH	• • •
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THE AND A CONTINUE DECK	SURFALE	REFAIK
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	ANTICIPATED STEEL REPAIR LOCATIONS							
SPAN	BEAM	LOCATION	DIM "A"	DIM "B"	DIM "C"	DIM "D"		
А	2	BENT 1	4″	73″				
A	2	BENT 1	4″	73″				

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# BEAM REPAIR QUANTITY TABLE

STEEL PLATES		BRIDGE JACKING		STIFFENER		
LBS.		E	EA. LBS.		S.	
ESTIMATE ACTUAL		ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	
52.0		0		0.0		
STEEL LATERAL BRACING		HARDWARE REPAIR BEAM END REPA		) REPAIR		
LBS.		LB	S.	LBS.		
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	
0.0		0.0		0.0		

AS-BUILT REPAIR QUANTITY TABLE						
UNDERSIDE OF DECK REPAIRS - SPAN A						
	ESTIMATE ACTUAL					
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.		
UNDERSIDE OF DECK	0.0	0.0				
BENT DIAPHRAGM	0.0	0.0				
OVERHANG	2.3	0.8				
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.		
UNDERSIDE OF DECK	0.0	0.0				
BENT DIAPHRAGM	0.0	0.0				
OVERHANG	0.0	0.0				
EPOXY RESIN INJECTIO	N	LIN.FT.	LIN	.FT.		
UNDERSIDE OF DECK		0.0				
BENT DIAPHRAGM		1.0				
OVERHANG		0.0				

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

# NOTES

FOR UNDERSIDE OF DECK REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR BEAM PLATING REPAIR.SEE "BEAM PLATING REPAIR DETAILS" SHEETS.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF ENGINEER.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

- 1 BEAM NUMBER
- (B) BEAM END REPAIR
- P PLATING REPAIR
- (S) STIFFENER REPAIR
- (F) BOTTOM FLANGE REPAIR
- (H) HARDWARE REPAIR
- G GUSSET PLATE REPAIR
- L LATERAL BRACE REPAIR
- J TYPE I BRIDGE JACKING

SHOTCRETE REPAIR AREA

----- ERI - EPOXY RESIN INJECTION

	PROJECT NO GASTON BRIDGE NO	<u>15BPR.51</u> COUNTY 350046
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	ANTICIPATED STEEL REPAIR LOCATIONS						
SPAN	BEAM	LOCATION	DIM "A"	DIM "B"	DIM "C"	DIM "D"	
В	2	BENT 1	6"	31″			
В	2	BENT 1	6″	31"			
В	4	BENT 1	4″	33"			
В	4	BENT 1	4″	33″			
В	4	BENT 2		4″			

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# BEAM REPAIR QUANTITY TABLE

STEEL PLATES LBS.		BRIDGE	JACKING	STIFFENER			
		EA. LBS.		IS.			
	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	
	60.0		0		0.0		
STEEL LATERAL BRACING LBS.		HARDWAR	E REPAIR	R BEAM END REPAIR			
		LB	S.	LBS.			
	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	
	0.0		0.0		0.0		

	AS-BUILT REPAIR QUANTITY TABLE						
	UNDERSIDE OF DECK REPAIRS - SPAN B						
		ESTI	MATE	ACT	UAL		
	SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.		
	UNDERSIDE OF DECK	0.0	0.0				
	BENT DIAPHRAGM OVERHANG	5 <b>.</b> 2	2.6 0.8				
	CONCRETE REPAIRS	AREA SOLET	VOLUME CLL FT	AREA SQ. FT			
	UNDERSIDE OF DECK	0.0	0.0				
	BENT DIAPHRAGM OVERHANG	0.0	0.0				
	EPOXY RESIN INJECTIO	DN	LIN.FT.	LIN	FT.		
	UNDERSIDE OF DECK		0.0				
	OVERHANG		0.0				
	VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET. NOTES FOR UNDERSIDE OF DECK REPAIRS. SEE "OVERHANG. DIAPHRAGM AND BRIDGE RAIL						
ł	REFAIR DETAILS SHEET. FOR OVERHANG REPAIRS SEE "OVERHAN	G.DIAPHRACA	AND RRID	GE RATI RE	PAJR		
ĺ	DETAILS" SHEET.	UTAL HRAUN		OF NATE RE			
F	FOR BEAM PLATING REPAIR. SEE "BEA	M PLATING F	REPAIR DET	AILS" SHEET	S.		
۱ ،	FOR CONCRETE REPAIR, SEE SPECIAL	PROVISIONS					
ł	SHOTCRETE REPAIRS MAY RE REPLACED	) WITH CONC	RETE				
I	REPAIR WITH APPROVAL OF THE ENGIN	NEER.					
ſ	FOR EPOXY RESIN INJECTION, SEE SPE	CIAL PROVI	SIONS.				
V							
/		EAM NUMBER					
/ /	OVERHANG SHOTCRETE	DEAM ENU RE	FAIK Atr				
/		TIFFFNFR R					
,	G S F E	OTTOM FLAN	GE REPAIR				
	с (н) н	IARDWARE REI	PAIR				
	í a c	SUSSET PLATI	E REPAIR				
		ATERAL BRAG	CE REPAIR				
		YPE I BRID	GE JACKING				
~	–ų JUINI @ BENT 2		TF REDATD	ARFA			
			NEFAIK				
	~~~~	∽ ERI - E	POXY RESIN	N INJECTIO	N		
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	STATE OF NORTH CAROLINA						
	TH CAROURIA CONTRACTOR AND CONTRACTO						
	DECK UNDERSIDE						
	35647 REPAIR						
	SPAN B						
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	ANTICIPATED STEEL REPAIR LOCATIONS						
SPAN	BEAM	LOCATION	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
C	3	BENT 2	4″	76″			
С	3	BENT 2	4″	76″			
С	4	BENT 2	4″	78″			
С	4	BENT 2	4″	78″			

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BEAM REPAIR QUANTITY TABLE						
STEEL F	PLATES	BRIDGE JACKING		STIFFENER		
LB	S <b>.</b>	EA.		LBS.		
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	
110.0		0		0.0		
STEEL LATERAL BRACING		HARDWARE REPAIR		BEAM END REPAIR		
LB	S.	LBS.		LBS.		
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	
0.0		0.0		0.0		
STEEL ANGLE A	KEEPER SSEMBLY					
EA.						
ESTIMATE	ACTUAL					
1						



AS-BUILT REPAIR QUANTITY TABLE				
UNDERSIDE OF DECK REPAIRS - SPAN C				
	ESTI	ΜΑΤΕ	ACT	UAL
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
UNDERSIDE OF DECK	0.0	0.0		
BENT DIAPHRAGM	0.0	0.0		
OVERHANG	0.0	0.0		
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
UNDERSIDE OF DECK	0.0	0.0		
BENT DIAPHRAGM	0.0	0.0		
OVERHANG	0.0	0.0		
EPOXY RESIN INJECTIO	N	LIN.FT.	LIN.	.FT.
UNDERSIDE OF DECK	0.0			
BENT DIAPHRAGM	1.5			
OVERHANG 0.0				

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

## NOTES

FOR UNDERSIDE OF DECK REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR BEAM PLATING REPAIR.SEE "BEAM PLATING REPAIR DETAILS" SHEETS.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

FOR STEEL BEARING KEEPER ANGLE ASSEMBLY, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIR AREA

ERI - EPOXY RESIN INJECTION	PROJECT NO. <u>15BPR.51</u> <u>GASTON</u> COUNTY BRIDGE NO. <u>350046</u> SHEET 3 OF 3
Docusigned by: Docusigned by:	DECK UNDERSIDE REPAIR SPAN C
	REVISIONS SHEET NO
DOCUMENT NOT CONSIDERED	NO. BY: DATE: NO. BY: DATE: S1-13
FINAL UNLESS ALL	1 Iolal SHEETS
SIGNATURES COMPLETED	(四月)



### EXISTING JOINT

IF THE EMBEDDED PORTION OF THE EXISTING PLASTIC WATERSTOP IS EXPOSED DURING REMOVAL OF UNSOUND CONCRETE, OR IF UNSOUND CONCRETE IS REMOVED WITHIN 2" OF THE WATERSTOP, THE ENTIRE CONCRETE DEPTH TO THE WATERSTOP SHALL BE REMOVED. IF SUCH EXCAVATION EXTENDS MORE THAN 2"BELOW THE BOTTOM OF THE PLANNED ELASTOMERIC CONCRETE HEADER, AS SHOWN, APPROVED REPAIR CONCRETE SHALL BE PLACED IN THE EXCAVATED AREA TO THE ELEVATION AT THE BOTTOM OF THE ELASTOMERIC CONCRETE.







DRAWN BY :	GHOLAMREZA KOUCHEKI	DATE : <u>11/2021</u>
CHECKED BY :	H.A. LOCKLEAR	DATE : <u>11/2021</u>

+

## SECTION B-B



BRIDGE JOINT DEMOLITION				
BENT 1	53.1 SQ.FT.			
BENT 2	53.1 SQ.FT.			
TOTAL	106.2 SQ.FT.			

	NUTES: FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE LMC-VES OVERLAY IS COMPLETE.
	THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING JOINT OPENING PRIOR TO ORDERING JOINT SEAL MATERIAL.IF THE ACTUAL JOINT OPENING VARIES FROM THE OPENING INDICATED IN THE DETAILS BY MORE THAN 1/4", NOTIFY THE ENGINEER.
	THE MANUFACTURER IS TO RECOMMEND AND PROVIDE THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE FOAM JOINT SEAL FOR THE SIZE OF THE OPENING ON THE PLANS AND ACCOMODATE THE MINIMUM EXPANSION SHOWN ON THE PLANS.
NT 2	FOAM JOINTS SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS.
'ES	THE CONTRACTOR SHALL TAKE CARE DURING JOINT REHAB OPERATIONS NOT TO DROP ANY MATERIAL BELOW THE BRIDGE, WITHOUT PROTECTIVE DEVICES BELOW TO CATCH THE MATERIAL. ANY MATERIAL THAT FALLS BELOW THE BRIDGE SHALL BE CONTAINED, REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO EXTRA COST TO THE DEPARTMENT. IF THE ENGINEER DETERMINES THAT THE PROTECTIVE DEVICES ARE NOT ADEQUATE OR NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
	THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINTS IN LIEU OF SAWING THE JOINT.
	THE INSTALLED FOAM JOINTS SHALL BE WATER TIGHT.
	QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.
	FOR EXCAVATION BELOW THE BOTTOM OF THE PLANNED JOINT DEMOLITION, CONCRETE FOR DECK REPAIR SHALL BE PLACED IN THE EXCAVATION AREA TO THE ELEVATION AT THE BOTTOM OF THE PROPOSED ELASTOMERIC CONCRETE FOR PRESERVATION HEADERS SHOW.
	FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.
	FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

### ELASTOMERIC CONCRETE FOR PRESERVATION DENIT 1

BENII	13.3 CU.FI.
BENT 2	13.3 CU.FT.
TOTAL	26.6 CU.FT.

JOINT REPAIR QUANT	ITY TA	BLE
	ESTIMATED	ACTUAL
FOAM JOINT SEAL FOR PRESERVATION	106.2 LN.LF.	

	PROJEC	T NO.	15	BPR.5	1
		<u>GAST</u>	ON	CO	UNTY
	BRIDGE NO. 3500				
	SHEET 1 OF	2			
OZEE938FAB674C5	DEPA	STAT RTMENT	E OF NORTH CAR OF TRAN RALEIGH	OLINA NSPORTA	TION
JOINT DETAILS					
		REVIS	SIONS		SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S1-14
FINAL UNLESS ALL SIGNATURES COMPLETED	1		3 4		TOTAL SHEETS 67



# NOTES:

TOTAL

FOR POURABLE SILICONE JOINT SEALANT SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

26.6 CU.FT.

### 

BACKWALL

### ELASTOMERIC CONCRETE FOR PRESERVATION 13.3 CU.FT. END BENT 1 END BENT 2 13.3 CU.FT.

BRIDGE	JOINT
DEMOL	ITION
END BENT 1	52.7 SQ.FT.

END BENT 2	52.7 SQ.FT.
TOTAL	105.4 SQ.FT.

JOINT REPAIR QUAN	TITY TA	BLE
	ESTIMATED	ACTUAL
POURABLE SILICONE JOINT SEALANT	441.4 LIN.LF.	

	PROJECT NO. <u>15</u> GASTON BRIDGE NO. <u>350</u>	BPR.51 COUNTY 0046
DocuSigned by:	SHEET 2 OF 2	
02EE938FAB674C5 02EE938FAB674C5 02EE938FAB674C5 02EE938FAB674C5 02EE938FAB674C5	STATE OF NORTH CAR DEPARTMENT OF TRAN RALEIGH	OLINA NSPORTATION
SEAL 35647 MAN A. COLUMN 01/25/2022	JOINT DE1	FAILS
	REVISIONS	SHEET NO.
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FINAL UNLESS ALL SIGNATURES COMPLETED	1     3       2     4	TOTAL SHEETS 67



AS-BUILT REPA	IR Q	JANT]	ΓΥΥ Τ	ABLE	
	QUANTITIES				
	ESTI	ΜΑΤΕ	ACT	UAL	
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	0.0	0.0			
CURTAIN WALL	0.0	0.0			
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	0.0	0.0			
			-		
EPOXY RESIN INJEC	CTION	LIN.FT.		LIN.FT.	
CURTAIN WALL		0.0			
САР		0.0			
EPOXY COATING	G	SQ.FT.		SQ.FT.	
TOP OF END BENT CA	>	0.0			
CURTAIN WALL		235.2			
AS-BUILT REPA	IR Q	JANT]	ΙΤΥ Τ	ABLE	
END BENT 2		QUANT	ITIES		
	ESTIMATE ACTUAL			UAL	
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	6.7	3.4			
CURTAIN WALL	0.0	0.0			
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	0.0	0.0			
			-		
EPOXY RESIN INJEC	CTION	LIN.FT.		LIN.FT.	
CURTAIN WALL		0.0			
САР		0.0			
EPOXY COATING	SQ.FT.		SQ.FT.		
TOP OF END BENT CA	5	0.0			

# NOTES

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN 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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

SHOTCRETE REPAIRS MAY BE SUBSTITUTED IN LIEU OF CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

CLEAN THE CURTAIN WALL AND APPLY EPOXY PROTECTIVE COATING TO THE SURFACE. FOR EPOXY COATING, SEE SPECIAL PROVISIONS.

	PROJEC	CT NO. GAST E NO	0	<u>15</u> N 35	<u>BPR.5</u> C0 50046	01 UNTY
DocuSigned by: 02EE938FAB674C5 02EE938FAB674C5 02EE938FAB674C5 02EE938FAB674C5	DEPA	stati RTMENT	e of Of	NORTH CAR TRAN RALEIGH	NSPORTA	TION
SEAL 35647 MAN A. CONTINUE 01/25/2022	E	ND B	EI	NTS	1&	2
		REVIS	SION	NS		SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY:	DATE:	N0.	BY:	DATE:	S1-16
FINAL UNLESS ALL SIGNATURES COMPLETED	ป 2		3 A			TOTAL SHEETS 67

SPAN B			
SPAN A			



### NOTES:

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AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

SHOTCRETE REPAIRS MAY BE SUBSTITUTED IN LIEU OF CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

CLEAN AND REMOVE DEBRIS FROM THE TOP OF THE CAP AND APPLY EPOXY PROTECTIVE COATING. EPOXY COATING SHALL BE APPLIED TO THE TOP SURFACE OF THE CAP. THE CONTRACTOR SHALL NOT COAT THE AREA OF THE CAP BENEATH THE MASONRY PLATES. FOR EPOXY COATING, SEE SPECIAL PROVISIONS.

DRAWN BY :	A. SORSENGINH	DATE	: .	5/2019
CHECKED BY :	H.A. LOCKLEAR	DATE	: .	12/2021

AS-BUILT REPAIR	QUAN	1 T I T V	Y TA	BLE
DENIT 1 DEDATOS		QUANT	ITIES	
DENT I REFAIRS	ESTI	ΜΑΤΕ	ACT	UAL
SHOTCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF
САР	37.1	18.6		
COLUMN	107.9	54.0		
CONCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP	0.0	0.0		
EPOXY RESIN INJECTI	ON	LN. FT.		LN. FT.
САР		0.0		
COLUMN		0.0		
EPOXY COATING		SQ. FT.		SQ. FT.
TOP OF BENT CAP		187		





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AS-BUILT REPAIR	QUAN	1 T T L	Y TA	BLE
BENT 2 REPATRS		QUANT	ITIES	
DENT 2 NELAINS	ESTI	MATE	ACT	UAL
SHOTCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP	18.4	9.2		
COLUMN	71.1	35.6		
CONCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF
CAP	0.0	0.0		
EPOXY RESIN INJECTI	ON	LN. FT.		LN. FT.
САР		2.0		
COLUMN		3.5		
EPOXY COATING		SQ. FT.		SQ. FT.
TOP OF BENT CAP		187		



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![](_page_22_Picture_0.jpeg)

BRIDGE COORDINATES LATITUDE: 35.25042222 LONGTUDE: 81.29935556

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# LOCATION SKETCH

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

THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT THE EXISTING STRUCTURE WHICH IS TO REMAIN IN PLACE WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY PART OF THE EXISTING STRUCTURE WHICH IS TO REMAIN IN PLACE, THE DAMAGED AREA SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.

WORK ON THE BRIDGE(S) SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW, EXCEPT WHERE THE CONTRACTOR<sup>5</sup>/<sub>32</sub>S PLAN USE PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES TO CATCH THE MATERIAL. THE CONTRACTOR SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS.

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

AT THE TIME OF PREPARATION OF THESE PLANS, IT WAS NOT ANTICIPATED THAT ITEM(S)LISTED BELOW WOULD BE REQUIRED.HOWEVER, IT MAY BE DETERMINED IN THE FIELD THAT THE FOLLOWING ITEM(S) LISTED, OR OTHER WORK WILL BE NECESSARY TO PROPERLY COMPLETE THE INTENDED BRIDGE PRESERVATION/REHABLITATION WORK. THE CONTRACTOR SHALL BE PREPARED TO PERFORM SUCH WORK IN A TIMELY MANNER, AS DETERMINED IN THE FIELD, SUCH WORK SHALL BE CONSIDERED EXTRA WORK AND SHALL BE ADDRESSED AS PER ARTICLE 104-7 OF THE STANDARD SPECIFICATIONS. PROJECT SPECIAL PROVISIONS THAT ARE REQUIREMENTS FOR THESE POTENTIAL ADDITIONAL WORK ITEMS HAVE BEEN PROVIDED IN THE PROJECT DOCUMENTS, BUT NO QUANTITIES HAVE BEEN LISTED. ACTUAL PAY ITEMS, QUANTITIES, AND COSTS WILL BE ESTABLISHED, AS REQUIRED, IF EXTRA WORK IS ENCOUNTERED. UNANTICIPATED ITEMS.

1. CLASS III SURFACE PREPARATION

DRAWN BY :	E. BAYISSA/	GHOLAMREZA	KOUCHEKI	DATE :	3/2019
CHECKED BY	:	H.A. LOCKLEA	R	DATE :	12/2021

SQ.YDS.

### NOTES

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.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.
FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.
EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIRN OF BRIDGE DECKS.
FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.
FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.
FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.
FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETEWEEN THAT SHOWN IN THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.
WORK ON THE BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW, EXCEPT WHERE THE CONTRACTOR'S PLAN USE PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES TO CATCH THE MATERIAL. THE CONCTRACTOR SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS.
ANY DAMAGE TO EXISTING REINFORCING STEEL,DURING CONTRACTOR'S OPERATIONS,SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT.
PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASKS FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC.
FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.
FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.
FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE- VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.
FOR POURABLE SILICONE JOINT SEALANT, SEE SPECIAL PROVISIONS.
FOR SILANE BARRIER RAIL TREATMENT, SEE SPECIAL PROVISIONS.
FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.
FOR PAINTING EXISTING WEATHERING STEEL STRUCTURES, SEE SPECIAL PROVISIONS.
FOR BEAM REPAIR PLATING, SEE SPECAIL PROVISIONS.
FOR BOLTED BEAM REPAIRS, SEE SPECIAL PROVISIONS.
FOR EPOXY COATING, SEE SPECIAL PROVISIONS.
FOR SILANE SUBSTRUCTURE TREATMENT, SEE SPECIAL PROVISIONS.
PROJECT NO. 15BPR.51
GASTON COUNTY
BRIDGE NO. 350314
SHEET 2 OF 2
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION RALEIGH
NIN OF ESSION AND A MATTER
GENERAL DRAWING
FOR BRIDGE
01/25/2022
REVISIONS SHEET NO. OCUMENT NOT CONCERSED NO. BY: DATE: NO. BY: DATE: S2-02
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![](_page_23_Figure_0.jpeg)

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OZEE938FAB674CS OZEE938FAB674CS OROFESSION SEAL 35647 MCINEER OL/25/2022	depa T PREf	RTMENT	e of north car OF TRA RALEIGH AL SE SURF TION	NSPORTA ECTIC ACE DETA	TION ON AILS
		REVIS	SIONS		SHEET NO.
OCUMENT NOT CONSIDERED	NO. BY:	DATE:	NO. BY:	DATE:	S2-03
FINAL UNLESS ALL SIGNATURES COMPLETED	1		3 4		SHEETS 67

![](_page_24_Figure_0.jpeg)

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# NOTES

WHEN PREPARING THE SURFACE FOR LMC-VES OVERLAY ADJACENT TO THE PREVIOUSLY PLACED LMC-VES STAGE, THE PREVIOUSLY PLACED LMC-VES SHALL BE SAW-CUT TO THE FULL DEPTH OF THE LMC-VES AT THE CENTERLINE OF THE BRIDGE AND ALL LMC-VES IN THE 4"OVERLAP SHALL BE REMOVED WITH HAND TOOLS PRIOR TO PLACEMENT OF LMC-VES IN THE SECOND STAGE. SEE TRAFFIC MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGGING OF OVERLAY SURFACE PREPARATION AND OVERLAY PLACEMENT. PREVIOUSLY PLACED LMC-VES \* LOCATION OF LONGITUDINAL JOINT — \* 4" OVERLAP BETWEEN OVERLAYS \_\_\_\_\_STAGED LMC-VES OVERLAY └── DECK SURFACE BEFORE OVERLAY IS PLACED EXISTING BRIDGE DECK-SECTION THRU DECK STAGED LMC-VES OVERLAY JOINT (AS NEEDED) PROJECT NO. 15BPR.51 GASTON \_\_\_ COUNTY 350314 BRIDGE NO.\_\_\_\_ SHEET 2 OF 2 DocuSigned by: 02EE938FAB674C5... STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ATH CARO RALEIGH NOFESSION\_ TYPICAL SECTION SEAL 35647 AND SURFACE ACINEER SEPARATION DETAILS '4M 01/25/2022 SHEET NO. REVISIONS S2-04 NO. DATE: DATE: BY: BY: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL TOTAL SHEETS SIGNATURES COMPLETED 67

![](_page_25_Figure_0.jpeg)

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# AS-BL

DECK SURFACE REPAI

HYDRO-DEMOLITION OF BRIDGE DE SCARIFYING BRIDGE DECK

CLASS II SURFACE PREPARATION

LATEX MODIFIED CONCRETE -VES PLACING & FINISHING LMC-VES

BRIDGE GROOVING FLOORS

SURFACE PREPARATION FOR CONC SILANE BARRIER RAIL TREATMEN

JILT R	EPAIR QU	JANTITY	TABLE	
R	APPROA	ACH SLAB	SPAN	А
	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
ЕСК	201.0 SQ. YDS.		228.0 SQ. YDS.	
	201.0 SQ. YDS.		228.0 SQ. YDS.	
l	0.4 SQ. YDS.		0.0 SQ. YDS.	
	8.4 CU.YDS.		9.5 CU.YDS.	
OVERLAY	201.0 SQ. YDS.		228.0 SQ. YDS.	
	1724.0 SQ.FT.		1944.0 SQ.FT.	

### SILANE BARRIER RAIL TREATMENT - SPAN A

	ESTIMATE	ACTUAL
RETE BARRIER	294.1 SQ.FT.	
IT	294.1 SQ.FT.	

NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSSARY 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 AND B-B SEE "JOINT DETAILS" SHEET.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE FEET OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.

FOR LMC-VES OVERLAY, SEE SPECIAL PROVISIONS.

FOR SILANE BARRIER RAIL TREATMENT, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

![](_page_25_Figure_21.jpeg)

BRIDGE JOINT DEMOLITION

![](_page_25_Figure_23.jpeg)

CLASS II SURFACE PREPARATION

PROJECT NO. 15BPR.5 GASTON CO	UNTY
BRIDGE NO. 350314	
SHEET 1 OF 3	
Docusigned by: Docusigned by: Docusigned by: Docusigned by: Docusigned by: Docusigned by: Docusigned by: DECK SURFACE REP SPAN A & APPROA SLAB	TION AIR ACH
REVISIONS	SHEET NO.
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SIGNATURES COMPLETED 2 4	67

![](_page_26_Figure_0.jpeg)

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![](_page_26_Picture_9.jpeg)

![](_page_26_Figure_11.jpeg)

AS-BUILT REPAIR	QUANTITY TABLE
DECK SURFACE RE	PAIR - SPAN B
	ESTIMATE ACTUAL
HYDRO-DEMOLITION OF BRIDGE DECK	648.0 SQ. YDS.
SCARIFYING BRIDGE DECK	648.0 SQ. YDS.
CLASS II SURFACE PREPARATION	
PLACING & FINISHING LMC-VES OVERLAY	648 0 S0 YDS
BRIDGE GROOVING FLOORS	5480.0 SQ.FT.
SILANE BARRIER RAIL TR	EATMENT - SPAN B
SURFACE PREPARATION FOR CONCRETE BARR	IER 869.0 SQ.FT.
SILANE BARRIER RAIL TREATMENT	869.0 SQ.FT.
PROJ	ECT NO. <u>15BPR.51</u>
/	GASIUN COUNTY
BRID	GE NO. 350314
SHEET 2	2 OF 6
DocuSigned by:	STATE OF NORTH CAROLINA
D2EE938FAB674C5 DE	PARTMENT OF TRANSPORTATION
DE 01/25/2022	CK SURFACE REPAIR SPAN B
DOCUMENT NOT CONCEPED NO. BY:	REVISIONS SHEET NO. DATE: NO. BY: DATE: S2-06
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL	REVISIONS     SHEET NO.       DATE:     NO.     BY:     DATE:     S2-06       3     TOTAL SHEETS

![](_page_27_Figure_0.jpeg)

1/25/2022 P:\15BPR51\Structures\FinalPlans\402\_013\_15BPR51\_SMU\_ DSR\_S2-07 \_350314.dgn ksedai

AS-BUILT RE	EPAIR QU	ANTITY	TABLE	
DECK SURFACE REPAIR	SPA	N C	APPROACH	SLAB
	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
HYDRO-DEMOLITION OF BRIDGE DECK	249.0 SQ. YDS.		131.0 SQ. YDS.	
SCARIFYING BRIDGE DECK	249.0 SQ. YDS.		131.0 SQ. YDS.	
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.		0.0 SQ. YDS.	
LATEX MODIFIED CONCRETE-VES	10.4 CU.YDS.		5.5 CU.YDS.	
PLACING & FINISHING LMC-VES OVERLAY	249.0 SQ. YDS.		131.0 SQ. YDS.	
BRIDGE GROOVING FLOORS	2140.0 SQ.FT.		1079.0 SQ.FT.	
SILANE BARRIER RAIL TREATMENT	SPAN C		APPROAC	CH SLAB
	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
SURFACE PREPARATION FOR CONCRETE BARRIER	361.8 SQ.FT.		193.0 SQ.FT.	
SILANE BARRIER RAIL TREATMENT	361.8 SQ.FT.		193.0 SQ.FT.	

# NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSSARY 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 AND B-B SEE "JOINT DETAILS" SHEET.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE FEET OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE SPECIAL PROVISIONS.

FOR LMC-VES OVERLAY, SEE SPECIAL PROVISIONS.

FOR SILANE BARRIER RAIL TREATMENT, SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

![](_page_27_Figure_11.jpeg)

BRIDGE JOINT DEMOLITION

![](_page_27_Figure_13.jpeg)

CLASS II SURFACE PREPARATION

		F	PR	OJEC	ct no. Gast	0	15 N	<u>BPR.5</u>	5 <u>1</u> UNTY
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ANTICIPATED STEEL REPAIR LOCATIONS							
REPAIR	SPAN	BEAM	LOCATION	DIM "A"	DIM <i>"</i> B"		
S	A	G2	BENT 1	4″			

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![](_page_28_Figure_1.jpeg)

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BEAM REPAIR QUANTITY TABLE							
STEEL	PLATES	BRIDGE .	JACKING	STIFF	ENER		
LBS. EA.				L	BS.		
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL		
0.0		0	0	3.0			
STEEL LATER	AL BRACING	HARDWAR	E REPAIR	BEAM END	REPAIR		
LBS.		LBS.		LBS.			
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL		
0.0		0.0		0.0			

AS-BUILT REPAIR QUANTITY TABLE								
UNDERSIDE OF DECK REPAIRS - SPAN B								
	ESTI	ΜΑΤΕ	ACT	UAL				
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.				
UNDERSIDE OF DECK	0.0	0.0						
BENT DIAPHRAGM	19.3	6.4						
OVERHANG	5.6	1.9						
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.				
UNDERSIDE OF DECK	0.0	0.0						
BENT DIAPHRAGM	0.0	0.0						
OVERHANG	0.0	0.0						
EPOXY RESIN INJECTI	LIN.FT.	LIN	.FT.					
UNDERSIDE OF DECK		0.0						
BENT DIAPHRAGM		0.0						
OVERHANG		0.0						

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

NOTES

FOR UNDERSIDE OF DECK REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR BEAM PLATING REPAIR, SEE "BEAM PLATING REPAIR DETAILS" SHEETS.

FOR BOLTED BEAM REPAIRS, SEE "BEAM PLATING REPAIR DETAILS" SHEETS.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS, WITH THE APPROVAL OF THE ENGINEER.

- 1 BEAM NUMBER
- B BEAM END REPAIR
- P PLATING REPAIR
- S STIFFENER REPAIR
- F BOTTOM FLANGE REPAIR
- (H) HARDWARE REPAIR
- G GUSSET PLATE REPAIR
- L LATERAL BRACE REPAIR
- J TYPE I BRIDGE JACKING

SHOTCRETE REPAIR AREA

----- ERI - EPOXY RESIN INJECTION

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![](_page_29_Figure_0.jpeg)

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AS-BUILT REPA	AIR QUA	NTITY	΄ ΤΑΒΙ	_E
LINDERSTDE OF	DECK REPA	TRS - S	PAN B	
		MATE		Ί <b>Ι</b> ΔΙ
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
UNDERSIDE OF DECK	0.0	0.0		
BENT DIAPHRAGM OVERHANG	11.4	3.8 0.9		
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
UNDERSIDE OF DECK	0.0	0.0		
BENT DIAPHRAGM	0.0	0.0		
		0.0		
EPOXY RESIN INJECT	TON	LIN.FT.	LIN	.FT.
UNDERSIDE OF DECK		0.0		
OVERHANG		0.0		
VALUES IN CHART REPRESENT ESTI	MATED REPAIR	TOTALS AFT	ER REMOVA	L OF
TO SAWCUT. SEE "OVERHANG, DIAPHR	AGM AND BRIDG	AND MINIM E RAIL REP	AIR DETAI	RANCE LS" SHEET.
NOTES				
FOR UNDERSIDE OF DECK REPAIRS. REPAIR DETAILS"SHEET.	SEE "OVERHANG,	DIAPHRAGM	AND BRIDO	SE RAIL
FOR OVERHANG REPAIRS.SEE "OVER	HANG, DIAPHRAGN	AND BRID	GE RAIL RE	PAIR
DETAILS" SHEET.				
FOR SHOTCRETE REPAIR, SEE SPECI	AL PROVISIONS.			
FOR CONCRETE REPAIR, SEE SPECIA	L PROVISIONS.			
SHOTCRETE REPAIR MAY BE REPLAC APPROVAL OF THE ENGINEER.	ED WITH CONCR	ETE REPAIR	S WITH	
ATTROVAL OF THE ENGINEER.				
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	<b>//////</b> cu/	ATOPETE DE		
	SHO	UICREIE RE	FAIR AREA	
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ANTICIPATED STEEL REPAIR LOCATIONS							
REPAIR	SPAN	BEAM	LOCATION	DIM "A"	DIM "B"		
S	С	5	BENT 2	6″			
F	С	5	BENT 2		24″		
S	С	7	BENT 2	6″			

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![](_page_30_Figure_1.jpeg)

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BEAM REPAIR QUANTITY TABLE							
STEEL PLATES BRIDGE JACKING STIFFENER							
LB	S.	E	4.	LB	S.		
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL		
0.0		0		8.0			
TEEL LATER	AL BRACING	HARDWARE	REPAIR	BEAM END REPAIR			
LBS.		LB	S.	LBS.			
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL		
0.0		0.0		29.0			

AS-BUILT REPAIR QUANTITY TABLE UNDERSIDE OF DECK REPAIRS - SPAN C ESTIMATE ACTUAL AREA SQ.FT. VOLUME CU.FT. AREA SQ.FT. VOLUME CU.FT. SHOTCRETE REPAIRS UNDERSIDE OF DECK 0.0 0.0 BENT DIAPHRAGM 2.0 0.7 OVERHANG 0.8 0.3 VOLUME CU.FT. AREA SQ.FT. VOLUME CU.FT. AREA SQ.FT. CONCRETE REPAIRS UNDERSIDE OF DECK 0.0 0.0 BENT DIAPHRAGM 0.0 0.0 OVERHANG 0.0 0.0 EPOXY RESIN INJECTION LIN.FT. LIN.FT. UNDERSIDE OF DECK 0.0 BENT DIAPHRAGM 0.0 OVERHANG 1.5 DECK DRAIN REPAIR EACH EACH DECK DRAIN REPAIR

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

### NOTES

FOR UNDERSIDE OF DECK REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS.SEE "OVERHANG,DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR DECK DRAIN REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR BEAM PLATING REPAIR, SEE "BEAM PLATING REPAIR DETAILS" SHEETS. FOR BOLTED BEAM REPAIR, SEE "BEAM PLATING REPAIR DETAILS" SHEETS.

- 1 BEAM NUMBER
- B BEAM END REPAIR
- (P) PLATING REPAIR
- S STIFFENER REPAIR
- F BOTTOM FLANGE REPAIR
- ANCHOR BOLT REPAIR
- G GUSSET PLATE REPAIR
- L LATERAL BRACE REPAIR
- J TYPE I BRIDGE JACKING

SHOTCRETE REPAIR AREA

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ERI	- E	POXY	RESIN	INJECTION

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	BRIDGE	NO	350	0314	
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![](_page_31_Figure_0.jpeg)

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JOINT REPAIR QUANTITY TABLE							
	BRIDGE JOINT DEMOLITION	POURABLE SILICONE JOINT SEALANT	ELASTOMERIC CONCRETE FOR PRESERVATION				
END BENT 1	76.7 SQ.FT.	76.7 LF	18.7 CU.FT.				
END BENT 2	59.6 SQ.FT.	59.6 LF	14.9 CU.FT.				
* TOTAL	136.3 SQ.FT.	136.3 LF	33.6 CU.FT.				
* BASED ON TH	HE MINIMUM BLOCKOU	T SHOWN.					

	PROJECT NO. 158PR.51
-LEVELING	GASTON COUNTY
	BRIDGE NO350314
SSUCCESSION AND AND AND AND AND AND AND AND AND AN	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
R ROD SEAL 35647 NONEFRICE 01/25/2022	JOINT DETAILS
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![](_page_32_Figure_0.jpeg)

AS-BUILT REPA	IR Q	UANT]	[ΤΥ Τ	ABLE
END RENT 1		QUANT	ITIES	
	ESTI	ΜΑΤΕ	ACT	UAL
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
САР	2.3	1.2		
CURTAIN WALL	0.0	0.0		
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
САР	0.0	0.0		
EPOXY RESIN INJEC	CTION	LIN.FT.		LIN.FT.
CURTAIN WALL		0.0		
САР		0.0		
SILANE TREATME	SQ.FT.		SQ.FT.	
TOP OF END BENT CAP	D	0.0		
CURTAIN WALL		236.0		
AS-BUILT REPA	IR Q	UANT]	[ΤΥ Τ	ABLE
END BENT 2		QUANTITIES		
	ESTI	MATE	ACT	UAL
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
САР	0.5	0.3		
CURTAIN WALL	0.0	0.0		
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.
САР	0.0	0.0		
			-	
EPOXY RESIN INJECTION		LIN.FT.		LIN.FT.
CURTAIN WALL		0.0		
САР		0.0		
SILANE TREATME	NT	SQ.FT.		SQ.FT.
TOP OF END BENT CAP	0	0.0		
CURTAIN WALL		190.0		

# NOTES

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN 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 LOCATION AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

FOR SHORCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SILANE SUBSTRUCTURE TREATMENT, SEE SPECIAL PROVISIONS. FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

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![](_page_33_Figure_0.jpeg)

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CHECKED BY :	H.A. LOCKLEAR	DATE	:	12/2021

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AS-BUILT REPAIR QUANTITY TABLE					
RENT 1 REPATRS		QUANT	ITIES		
DENT I NETAINS	ESTI	ΜΑΤΕ	ACT	UAL	
SHOTCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF	
CAP	111.1	55.6			
COLUMN	25.3	12.7			
CONCRETE REPAIRS	AREA SF	VOLUME CF	AREA SF	VOLUME CF	
CAP	0.0	0.0			
EPOXY RESIN INJECTI	ON	LN. FT.		LN. FT.	
CAP		0.0			
COLUMN		0.0			
EPOXY COATING	AREA SF		AREA SF		
TOP OF BENT CAP		289.0			

FOR EPOXY COATING, SEE SPECIALS PROVISIONS.

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SIGNATURES COMPLETED

![](_page_34_Figure_0.jpeg)

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CHECKED BY : _	H.A. LOCKLEAR	DATE :	12/2021

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![](_page_35_Figure_0.jpeg)

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NOTES PROFILE INFOMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 6/4/2021. BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS.

# SCOPE OF WORK

PARTIALLY REMOVE TOP OF BRIDGE DECK CONCRETE BY SCARIFICATION AND HYDRO-DEMOLITION METHOD.

OVERLAY PREPARED TOP OF BRIDGE DECK WITH VERY EARLY STRENGTH LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH (LMC-VES).

DEMOLISH EXISTING END BENT JOINTS AND INSTALL POURABLE SILICONE JOINTS.

DEMOLISH EXISTING BENT JOINTS AND INSTALL FOAM JOINTS.

GROOVE LMC-VES BRIDGE DECK.

REPAIR STRUCTURAL STEEL.

CLEAN AND PAINT EXISTING WEATHERING STEEL.

REMOVE DEBRIS FROM TOP OF BENT CAPS AND APPLY EPOXY COATING.

EPOXY RESIN INJECTION OF CONCRETE CRACKS.

REMOVE UNSOUND CONCRETE AND PROPERLY PREPARE EXISTING END BENT AND BENT AREAS FOR SHOTCRETE AND CONCRETE REPAIRS.

PROPERLY PREPARE SPALLED AREAS IN EXISTING END BENT AND BENT AREAS FOR SHOTCRETE AND CONCRETE REPAIRS.

APPLY SILANE SUBSTRUCTURE TREATMENT TO END BENT 1 BACKWALL AND WINGS.

	PROJECT NO. 158	3PR.51
	GASTON	COUNTY
	BRIDGE NO. 35	0086
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CAROLINAR UNITED RTH CAROLINAR	STATE OF NORTH CAROL DEPARTMENT OF TRAN RALEIGH	SPORTATION
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![](_page_36_Picture_0.jpeg)

### LOCATION SKETCH

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

BRIDGE COORDINATES					
BRIDGE No.	LATITUDE	LONGITUDE			
350086	35°-14'-59 <b>.</b> 12″	81°-17′-54.28″			

AT THE TIME OF PREPARATION OF THESE PLANS, IT WAS NOT ANTICIPATED THAT ITEM(S) LISTED BELOW WOULD BE REQUIRED. HOWEVER, IT MAY BE DETERMINED IN THE FIELD THAT THE FOLLOWINGITEM(S) LISTED, OR OTHER WORK WILL BE NECESSARY TO PROPERLY COMPLETE THE INTENDED BRIDGE PRESERVATION/REHABLITATION WORK. THE CONTRACTOR SHALL BE PREPARED TO PERFORM SUCH WORK IN A TIMELY MANNER, AS DETERMINED IN THE FIELD, SUCH WORK SHALL BE CONSIDERED EXTRA WORK AND SHALL BE ADDRESSED AS PER ARTICLE 104-7 OF THE STANDARD SPECIFICATIONS. PROJECT SPECIAL PROVISIONS THAT ARE REQUIREMENTS FOR THESE POTENTIAL ADDITIONAL WORK ITEMS HAVE BEEN PROVIDED IN THE PROJECT DOCUMENTS, BUT NO QUANTITIES HAVE BEEN LISTED. ACTUAL PAY ITEMS, QUANTITIES, AND COSTS WILL BE ESTABLISHED, AS REQUIRED, IF EXTRA WORK IS ENCOUNTERED. UNANTICIPATED ITEMS.

1. CLASS III SURFACE PROPARATION

SQ. YDS.

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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. WORK ON THE BRIDGES SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW. THE CONTRACTOR SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS. ANY DAMAGE TO EXISTING REINFORCING STEEL, DURING CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASK FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS. FOR SUBMITTAL OF WORKING DRAWINGS, 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 BRIDGE JOINT DEMOLITION. SEE SPECIAL PROVISIONS. FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS. FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS. FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS. FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS. FOR EPOXY COATING AND DEBRIS REMOVAL, SEE SPECIAL PROVISIONS. FOR BEAM REPAIR PLATING, SEE SPECIAL PROVISIONS. FOR BOLTED BEAM REPAIR. SEE SPECIAL PROVISIONS. FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL PROVISION. FOR SILANE SUBSTRUCTURE TREATMENT, SEE SPECIAL PROVISIONS. FOR FOAM JOINT SEALS FOR PRESERVATION. SEE SPECIAL PROVISIONS. FOR POURABLE SILICONE JOINT SEALANT, SEE SPECIAL PROVISIONS. FOR PAINTING EXISTING WEATHERING STEEL STRUCTURES, SEE SPECIAL PROVISIONS.

### GENERAL NOTES

FOR STEEL BEARING KEEPER ANGLE ASSEMBLY, SEE SPECIAL PROVISIONS.

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![](_page_37_Figure_0.jpeg)

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# WHEN PREPARING THE SURFACE FOR LMC-VES OVERLAY ADJACENT TO THE PREVIOUSLY PLACED LMC-VES STAGE, THE PREVIOUSLY PLACED LMC-VES SHALL BE SAW-CUT TO THE FULL DEPTH OF THE LMC-VES AT THE CENTERLINE OF THE BRIDGE AND ALL LMC-VES IN THE 4"OVERLAP SHALL BE REMOVED WITH HAND TOOLS PRIOR TO PLACEMENT OF LMC-VES IN THE SECOND STAGE. SEE TRAFFIC MANAGEMENT PLANS FOR LANE WIDTHS, SEQUENCING AND OTHER TRAFFIC CONTROL MEASURES FOR STAGGING OF OVERLAY SURFACE PREPARATION AND OVERLAY PLACEMENT. EXISTING PROPOSED ----FINISHED SURFACE OF LATEX MODIFIED - 1<sup>1</sup>∕₄″LATEX MODIFIED CONCRETE-VES OVERLAY CONCRETE-VES OVERLAY DECK SURFACE AFTER SURFACE PREPARATION DETAIL FOR LATEX MODIFIED CONCRETE-VES OVERLAY (FINISHED SURFACE OF THE LATEX MODIFIED CONCRETE-VES OVERLAY IS APPROX.) PROJECT NO. 15BPR.51 GASTON \_\_\_\_ COUNTY BRIDGE NO. 350086 DocuSigned by: 02EE938FAB674C5... STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WHITH CARO RALEIGH SEAL 35647 TYPICAL SECTION AND LMC-VES DETAILS CAM A. 01/25/2022 SHEET NO. REVISIONS S3-03 NO. DATE: DATE: BY: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED BY: TOTAL SHEETS 67

![](_page_38_Figure_2.jpeg)

DRAWN BY :	A. SORSENGINH	_ DATE :	11/2021	
CHECKED BY :	H. A. LOCKLEAR	_ DATE :	11/2021	

# NOTES:

REPAIR LOCATIONS AND ESTIMATE OF 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 CONCRETE FOR DECK REPAIR, SEE SPECIAL PROVISIONS.

THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS II (PARTIAL DEPTH) SURFACE PREPARATION ARE APPROXIMATE AND MAY NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AT THE PROJECT SITE.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATION OF THE BRIDGE DECK.

FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

PREVIOUSLY PLACED LMC-VES OVERLAY AT STAGED EDGES SHALL BE DEMOLISHED BACK A MINIMUM OF 4 INCHES AND RECAST WITH LMC-VES. SEE STAGED LMC-VES OVERLAY JOINT DETAIL.

FOR LMC-VES OVERLAY SURFACE PREPARATION, SEE SPECIAL PROVISIONS.

FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE OVERLAY IS COMPLETE.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR SECTION A-A AND B-B, SEE JOINT DETAILS SHEET.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM HYDRO-DEMOLITION PROCESS, SEE LMC-VES OVERLAY SURFACE PREPARATION SPECIAL PROVISIONS.

![](_page_38_Picture_18.jpeg)

BRIDGE JOINT DEMOLITION

![](_page_38_Picture_20.jpeg)

CLASS II SURFACE PREPARATION

\* RADIAL DIMENSION

AS-BUILT REPAIR	QUANITY	TABLE
APPROACH SLAB		
	ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK	148.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	148.0 SQ. YDS.	
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.	
LATEX MODIFIED CONCRETE OVERLAY - VES	6.2 SQ. YDS.	
PLACING & FINISHING LMC-VES OVERLAY	148.0 SQ. YDS.	
GROOVING BRIDGE FLOOR	1176.0 SQ.FT.	
SPAN A		
SCARIFYING BRIDGE DECK	233.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	233.0 SQ. YDS.	
CLASS II SURFACE PREPARATION	3.9 SQ. YDS.	
LATEX MODIFIED CONCRETE OVERLAY - VES	8.0 SQ. YDS.	
PLACING & FINISHING LMC-VES OVERLAY	233.0 SQ. YDS.	
GROOVING BRIDGE FLOOR	1852.0 SQ.FT.	

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SEAL 35647 MANNA A. COLUMN	DEC WI1	K SUI S TH AF	RFACE PAN PROA	E REP A ACH S	AIR LAB		
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![](_page_39_Figure_0.jpeg)

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SPAN B		
SCARIFYING BRIDGE DECK	673.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	673.0 SQ. YDS.	
CLASS II SURFACE PREPARATION	8.8 SQ. YDS.	
LATEX MODIFIED CONCRETE OVERLAY - VES	28.0 CU.YDS.	
PLACING & FINISHING LMC-VES OVERLAY	673.0 SQ. YDS.	
GROOVING BRIDGE FLOOR	5524.0 SQ.FT.	

![](_page_39_Figure_9.jpeg)

![](_page_40_Picture_0.jpeg)

HECKED BY :	H. A. LOCKLEAR	DATE : <u>11/202</u>
RAWN BY :	A. SORSENGINH	DATE : 11/202

FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL

PREVIOUSLY PLACED LMC-VES OVERLAY AT STAGED EDGES SHALL BE DEMOLISHED BACK A MINIMUM OF 4 INCHES AND RECAST WITH LMC-VES. SEE STAGED LMC-VES OVERLAY

FOR LMC-VES OVERLAY SURFACE PREPARATION, SEE SPECIAL

FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE

FOR SECTION A-A AND B-B, SEE JOINT DETAILS SHEET.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM HYDRO-DEMOLITION PROCESS, SEE LMC-VES OVERLAY SURFACE PREPARATION SPECIAL

AS-BUILT REPAIR	QUANITY	TABLE
APPROACH SLAB		
	ESTIMATE	ACTUAL
SCARIFYING BRIDGE DECK	124.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	124.0 SQ. YDS.	
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.	
LATEX MODIFIED CONCRETE OVERLAY - VES	5.1 CU. YDS.	
PLACING & FINISHING LMC-VES OVERLAY	124.0 SQ. YDS.	
GROOVING BRIDGE FLOOR	1087.0 SQ.FT.	
SPAN C		
SCARIFYING BRIDGE DECK	212.0 SQ. YDS.	
HYDRO-DEMOLITION OF BRIDGE DECK	212.0 SQ. YDS.	
CLASS II SURFACE PREPARATION	0.0 SQ. YDS.	
LATEX MODIFIED CONCRETE OVERLAY - VES	8.8 CU. YDS.	
PLACING & FINISHING LMC-VES OVERLAY	212.0 SQ. YDS.	
GROOVING BRIDGE FLOOR	1677.0 SO.FT.	

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![](_page_41_Figure_0.jpeg)

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CHECKED BY :	H. A. LOCKLEAR	DATE : <u>11/2021</u>
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# 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.

CONTRACTOR SHALL SAW CUT TO A NOMINAL DEPTH OF  $\frac{1}{2}$ " BUT REINFORCING STEEL SHALL NOT BE DAMAGED.

CONTRACTOR SHALL REMOVE SURFACE CONCRETE TO VERIFY THAT SAWCUT DEPTH WILL NOT DAMAGE EXISTING REINFORCING STEEL.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR UNDERSIDE OF DECK REPAIRS, SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS, SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR BEAM PLATING REPAIR, SEE "BEAM PLATING REPAIR DETAILS"

FOR BOLTED BEAM REPAIR, SEE "BEAM PLATING REPAIR DETAILS"

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR STEEL KEEPER ANGLE ASSEMBLY, SEE SPECIAL RPOVISIONS.

FOR STEEL KEEPER ANGLE ASSEMBLY DETAILS, SEE "STEEL KEEPER ANGLE ASSEMBLY DETAILS" SHEET.

	BEAM REPAIR QUANTITY TABLE									
PLATING REPAIR STIFFENER REPAIR DIAPHRAGM REPAIR		BEARING REPLACEMEN		STEEL KEEPER ANGLE ASSMEBLY						
LBS.		LBS.		LBS.		EA.		EA.		
	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
	0		0		0		0		1	

AS-BUILT REPAIR QUANTITY TABLE								
DECK UNDERSIDE REPAIR - SPAN A								
	ESTI	ΜΑΤΕ	ACT	UAL				
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.				
UNDERSIDE OF DECK	6.5	2.2						
UNDERSIDE OF OVERHANG	1.4	0.5						
DIAPHRAGMS	16.0	5.3						
OTHER REPAIRS	ESTIMATE		ACTUAL					

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

![](_page_41_Picture_21.jpeg)

![](_page_42_Figure_0.jpeg)

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											PROJECT NO. GASTO BRIDGE NO SHEET 2 OF 3	<u>15BPR</u> <u>ON</u> ( 350086	<u>.51</u> County
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PLATING	REPAIR	STIFFENEF	R REPAIR	DIAPHRAG	M REPAIR	BEARING RE	PLACEMENT	STEEL KEEF ASSME	PER ANGLE EBLY	NUMERIA CAROLINA		RALEIGH	
LB	5.	LE	3S <b>.</b>	L	BS.	EA	•	EA	•	SEAL 35647			
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	MCINEE CHANNEL		JNUERSI FPATR	UC
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AS-BUILT REPAIR QUANTITY TABLE								
DECK UNDERSIDE REPAIR - SPAN B								
	ESTI	ΜΑΤΕ	ACT	UAL				
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.				
UNDERSIDE OF DECK	0.0	0.0						
UNDERSIDE OF OVERHANG	6.5	2.2						
DIAPHRAGMS	12.1	4.0						
OTHER REPAIRS	ESTIMATE		ACTUAL					

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

![](_page_43_Figure_0.jpeg)

# 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.

CONTRACTOR SHALL SAW CUT TO A NOMINAL DEPTH OF  $\frac{1}{2}$ " BUT REINFORCING STEEL SHALL NOT BE DAMAGED.

CONTRACTOR SHALL REMOVE SURFACE CONCRETE TO VERIFY THAT SAWCUT DEPTH WILL NOT DAMAGE EXISTING REINFORCING STEEL.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR UNDERSIDE OF DECK REPAIRS, SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS, SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR BEAM PLATING REPAIR, SEE "BEAM PLATING REPAIR DETAILS" SHEETS.

FOR BOLTED BEAM REPAIR, SEE "BEAM PLATING REPAIR DETAILS" SHEETS.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR STEEL KEEPER ANGLE ASSEMBLY, SEE SPECIAL RPOVISIONS.

FOR STEEL KEEPER ANGLE ASSEMBLY DETAILS, SEE "STEEL KEEPER ANGLE ASSEMBLY DETAILS" SHEET.

ANTICIPATED BEAM REPAIR LOCATIONS											
TION	REPAIR TYPE	DIM ``A''	DIM ``B''	DIM	``C''	DIM	``D''	DIM	``E''	DIM	``F''
NT 2	PW	4″	70″								
NT 2	₽₩	4″	104″								
NT 2	PW	4″	72″								
IT 2	PS	69″									

# BEAM REPAIR QUANTITY TABLE

PLATING	REPAIR	STIFFENER REPAIR		DIAPHRAGM REPAIR		BEARING REPLACEMENT		STEEL KEEF ASSM	PER ANGLE EBLY
LE	S.	LE	35.	LBS.		EA.		EA	•
ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL	ESTIMATE	ACTUAL
174		70		0		0		1	

AS-BUILT REPAIR	R QUA	NTITY	΄ ΤΑΒΙ	_E	
DECK UNDERSIDE REPAIR – SPAN C					
	ESTIMATE ACTUAL				
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
UNDERSIDE OF DECK	0.0	0.0			
UNDERSIDE OF OVERHANG	3.0	1.0			
DIAPHRAGMS	8.4	2.8			
OTHER REPAIRS	ESTI	ΜΑΤΕ	ACTUAL		

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

![](_page_43_Picture_21.jpeg)

![](_page_44_Figure_0.jpeg)

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# NOTES

STRUCTURAL STEEL SHALL BE AASHTO GRADE 36 OR GREATER.

STRUCTURAL STEEL, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291-DH OR AASHTO M292-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293. SHOP DRAWINGS ARE NOT REQUIRED FOR ANCHOR BOLTS, NUTS AND WASHERS. SHOP INSPECTION IS REQUIRED.

ADHESIVELY ANCHORED ANCHOR BOLTS SHALL HAVE MINIMUM EMBEDMENT OF 12" WITH SUFFICIENT PROJECTION TO PROVIDE FULL NUT ENGAGEMENT ABOVE KEEPER ASSEMBLY. SEE STANDARD SPECIFICATIONS FOR ADHESIVE ANCHOR REQUIREMENTS. NO FIELD TESTING REQUIRED.

THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF PROPOSED ANCHOR BOLTS AND EXISTING CAP REINFORCING STEEL TO ENSURE NO CONFLICTS.

THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS SHOWING LOCATIONS OF ANCHOR BOLTS AND EXISTING CAP REINFORCEMENT TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF ASSEMBLIES.

	PROJECT G BRIDGE	<u>NO.</u> NO.	15E N 350	<u>3PR.5</u> co 086	UNTY
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![](_page_45_Figure_0.jpeg)

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JOINT REPAIR QUANTITY TABLE									
	BRIDGE JOINT DEMOLITION	POURABLE SILICONE JOINT SEALANT	ELASTOMERIC CONCRETE FOR PRESERVATION						
END BENT 1	65.8 SQ.FT.	65.8 LF	16.5 CU.FT.						
END BENT 2	54.3 SQ.FT.	54.3 LF	13.6 CU.FT.						
* TOTAL	120.1 SQ.FT.	120.1 LF	30.1 CU.FT.						
* BASED ON TH	* BASED ON THE MINIMUM BLOCKOUT SHOWN								

PROJECT	NO. 13878.31
C-LEVELING G	SASTON COUNTY
NT SEALANT BRIDGE	NO. 350086
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![](_page_46_Figure_0.jpeg)

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![](_page_47_Figure_0.jpeg)

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SPAN	В
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AS-BUILT REPAIR QUANTITY TABLE					
	QUANTITIES				
DENT I SPAN A FACE	ESTI	ΜΑΤΕ	ACT	UAL	
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	11.4	5.7			
COLUMNS	20.7	10.4			
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	0.0	0.0			
EPOXY RESIN INJECT	ION	LIN.FT		LIN.FT	
САР		0.0			
COLUMNS		0.0			
EPOXY COATING		SQ.FT.		SQ.FT.	
TOP OF BENT CAP		235			

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1"BEHIND REBAR AND 2" MIN. CLEAR TO SAWCUT. FOR REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES

REPAIR LOCATIONS AND ESTIMATE OF 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.

SHOTCRETE REPAIRS MAY BE SUBSTITUTED IN LIEU OF CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SHOTCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

CLEAN AND REMOVE DEBRIS FROM THE TOP OF THE CAP AND APPLY EPOXY PROTECTIVE COATING. EPOXY COATING SHALL BE APPLIED TO THE TOP SURFACE OF THE CAP. THE CONTRACTOR SHALL NOT COAT THE AREA OF THE CAP BENEATH THE MASONRY PLATES.FOR EPOXY COATING, SEE SPECIAL PROVISIONS.

> SHOTCRETE REPAIR AREA

CONCRETE REPAIR AREA  $\boxtimes$ 

CONTRESIN INJECTION (ERI)

	PROJECT NO. <u>15BF</u> GASTON BRIDGE NO. <u>35008</u>	PR.51 COUNTY 36				
	SHEET 1 OF 2					
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SEAL 35647 01/25/2022	BENT 1 SPAN A FACE					
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![](_page_48_Figure_0.jpeg)

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AS-BUILT REPA	IR QL	JANTI	ΓΥ ΤΑ	BLE	
DENIT 1 CDAN D EACE		QUANTITIES			
DENT I SPAN D FACE	ESTI	ΜΑΤΕ	ACT	UAL	
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	26.4	13.2			
COLUMNS	84.1	42.1			
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	0.0	0.0			
EPOXY RESIN INJECT	ION	LIN.FT		LIN.FT	
САР		0.0			
COLUMNS		0.0			

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1"BEHIND REBAR AND 2" MIN. CLEAR TO SAWCUT. FOR REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

### NOTES

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FOR SHOTCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIR AREA

CONCRETE REPAIR AREA

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CONTRACTION (ERI)

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![](_page_49_Figure_0.jpeg)

AS-BUILT REPAIR QUANTITY TABLE						
DENT 2 COAN D EACE		QUANTITIES				
DENT Z SPAN D FACE	ESTIMATE		ACTUAL			
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.		
САР	6.6	3.3				
COLUMNS	0.0	0.0				
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME AREA CU.FT. SQ.FT.		VOLUME CU.FT.		
САР	0.0	0.0				
EPOXY RESIN INJECTION		LIN.FT		LIN.FT		
САР		0.0				
COLUMNS		0.0				
EPOXY COATING		SQ.FT.		SQ.FT.		
TOP OF BENT CAP		211				

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1"BEHIND REBAR AND 2" MIN. CLEAR TO SAWCUT. FOR REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

NOTES

REPAIR LOCATIONS AND ESTIMATE OF 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.

SHOTCRETE REPAIRS MAY BE SUBSTITUTED IN LIEU OF CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SHOTCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

CLEAN AND REMOVE DEBRIS FROM THE TOP OF THE CAP AND APPLY EPOXY PROTECTIVE COATING.EPOXY COATING SHALL BE APPLIED TO THE TOP SURFACE OF THE CAP.THE CONTRACTOR SHALL NOT COAT THE AREA OF THE CAP BENEATH THE MASONRY PLATES.FOR EPOXY COATING, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIR AREA

CONCRETE REPAIR AREA

EPOXY RESIN INJECTION (ERI)

	PROJECT NO GASTON BRIDGE NO3	15BPR.51 COUNTY 50086				
SHEET 1 OF 2						
DocuSigned by: 02EE938FAB674C5 02EE938FAB674C5 02EE938FAB674C5	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SEAL 35647	BENT 2 SPAN B FACE					
	REVISIONS	SHEET NO.				
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![](_page_50_Figure_0.jpeg)

AS-BUILT REPAIR QUANTITY TABLE					
DENIT 2 CRAN C EACE	QUANTITIES				
DENT Z SPAN C FACE	ESTIMATE		ACTUAL		
SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	48.0	24.0			
COLUMNS	0.0	0.0			
CONCRETE REPAIRS	AREA SQ.FT.	VOLUME CU.FT.	AREA SQ.FT.	VOLUME CU.FT.	
САР	0.0	0.0			
EPOXY RESIN INJECTION		LIN.FT		LIN.FT	
САР		0.0			
COLUMNS		0.0			

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND 2" MIN. CLEAR TO SAWCUT. FOR REPAIR DETAILS, SEE "TYPICAL CAP AND COLUMN REPAIR DETAILS" SHEET.

### NOTES

REPAIR LOCATIONS AND ESTIMATE OF 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.

SHOTCRETE REPAIRS MAY BE SUBSTITUTED IN LIEU OF CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR SHOTCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIR, SEE SPECIAL PROVISIONS.

FOR EPOXY RESIN INJECTION, SEE SPECIAL PROVISIONS.

CONCRETE REPAIR AREA  $\boxtimes \boxtimes \boxtimes$ 

SHOTCRETE REPAIR AREA

EPOXY RESIN INJECTION (ERI)

	PROJECT NO. <u>15BPR.5</u> <u>GASTON</u> COL BRIDGE NO. <u>350086</u>	5 <u>1</u> JNTY			
	SHEET 2 OF 2				
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![](_page_51_Figure_0.jpeg)

![](_page_52_Figure_0.jpeg)

![](_page_53_Picture_0.jpeg)

BRIDGE COORDINATES LAT: 35.297900 LONG: 81.003800

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### LOCATION SKETCH

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

### NOTE:

AT THE TIME OF PREPARATION OF THESE PLANS, IT WAS NOT ANTICIPATED THAT CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT WOULD BE REQUIRED. HOWEVER, IT MAY BE DETERMINED IN THE FIELD THAT CONCRETE REPAIRS, OR OTHER WORK WILL BE NECESSARY TO PROPERLY COMPLETETHE INTENDED BRIDGE PRESERVATION/REHABILITATION WORK. THE CONTRACTOR SHALL BE PREPARED TO PERFORM SUCH WORK IN A TIMELY MANNER. AS DETERMINED IN THE FIELD. SUCH WORK SHALL BE CONSIDERED EXTRA WORK AND SHALL BE ADDRESSED AS PER ARTICLE 104-7 OF THE STANDARD SPECIFICATIONS. PROJECT SPECIAL PROVISIONS THAT OUTLINE REQUIREMENTS FOR THESE POTENTIAL ADDITIONAL WORK ITEMS HAVE BEEN PROVIDED IN PROJECT DOCUMENTS, BUT NO QUANTITIES HAVE BEEN LISTED. ACTUAL PAY ITEMS, QUANTITIES, AND COSTS WILL BE ESTABLISHED, AS REQUIRED, IF EXTRA WORK IS ENCOUNTERED.

1. CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT

DRAWN BY :	M. WELDON	DATE	:	03/201
CHECKED BY :	A. A. COLE	DATE	:	03/201

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. WORK ON THE BRIDGES SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW. THE CONTRACTOR SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS. ANY DAMAGE TO EXISTING REINFORCING STEEL, DURING CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASK FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC.FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS. FOR SUBMITTAL OF WORKING DRAWINGS. 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 SILANE DECK TREATMENT, SEE SPECIAL PROVISIONS. FOR SILANE BRIDGE RAIL TREATMENT, SEE SPECIAL PROVISIONS.

CU.FT.

### NOTES

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.

FOR CONCRETE DECK REPAIR FOR SILANE DECK TREATMENT, SEE SPECIAL PROVISIONS.

	PROJECT NO. 15BPR.51					
		GAST	0	N	CO	UNTY
	BRIDGE NO. 350066					
SHEET 3 OF 3						
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SEAL	CENERAL DRAWING SEAL 35647 CONTER- 101/25/2022 GENERAL DRAWING FOR BRIDGE ON NC 27 OVER THE CATAWBA RIVER SHEET NO.					IG
35647 ; HILL TO AM A. COLUMN						
01/25/2022						
						SHEET NO.
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![](_page_54_Figure_2.jpeg)