Structure Safety Report

Routine Element Inspection

INSPECTION DATE: 04/29/2019

DIVISION: 6 COUNTY: ROBESO	STRUCTURE NUMBER: 770156	FREQI	UENCY : 24 MONT	HS
FACILITY CARRIED: 195 NBL		MILE POST:	30.7	
LOCATION: 0.6 MI.S. OF JCT.NC20				
FEATURE INTERSECTED: BIG MARSH	SWAMP			
LATITUDE : 34° 48' 11.04"	LONGITUDE: 78° 59' 22.66"			
SUPERSTRUCTURE: RC FLOOR/PPC	GIRDERS			
SUBSTRUCTURE: E.BTS&INT.BTS:RC	CAPS/PPC PILES			
SPANS: 3 SPANS. SEE SPAN PROFI	ILE SHEET FOR SPAN DETAILS			
FRACTURE CRITICAL TEMP	ORARY SHORING SCOUR CRITICAL		PLAN OF ACTION	
NBI GRADES: DECK 7 SU	JPERSTRUCTURE 6 SUBSTRUCTURE 7	CULVERT	N	
POSTED SV: Not Posted	POSTED TTST: Not F	Posted		
OTHER SIGNS PRESENT: NONE		Sign noticed issued for		Number Required
		NO	WEIGHT LIMIT	0
		NO	DELINEATORS	0
		_NO	NARROW BRIDGE	0
		_NO	ONE LANE BRIDGE	0
		_NO	LOW CLEARANCE	0
		INSPE DIRE	TION OF S-N ECTION CTION ES PLANS	
LOOKING NORTH				
INSPECTED BY Ray L. Kisner	SIGNATURE Ray L. Kisner	ASSISTED BY	Samuel F. Spillers	

Structure Element Scoring

Structure Number: 770156 Inspection Date 4/29/2019

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	О	Reinforced Concrete Deck	Deck	4753	4150	603	О	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	900	899	1	0	0
215	0	Reinforced Concrete Abutment	Abutments	64	17	47	0	0
225	0	Steel Pile	Piles and Columns	5	5	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	17	17	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	122	122	0	0	0
301	0	Pourable Joint Seal	Expansion Joints	56	56	0	0	0
316	0	Other Bearings	Bearing Device	36	0	36	0	0
515	316	Steel Protective Coating	Bearing Device	72	0	12	18	42
333	0	Other Bridge Railing	Bridge Rail	304	244	60	0	0
515	333	Steel Protective Coating	Bridge Rail	306	306	0	0	0
510	0	Wearing Surface	Wearing Surfaces	4224	4200	0	24	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 770156 Inspection Date: 04/29/2019

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	303 Square Feet
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	1 Feet
2816	Wearing Surface	Crack (Wearing Surface)	24 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	72 Square Feet

Element Structure Maintenance Quantities

Structure Number: 770156 Inspection Date 04/29/2019

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	64	0	0	47	17
Beam	3306	Maintenance Concrete Superstructure Components	1	900	О	О	1	899
Bearing Device	3334	Bridge Bearing	0	36	0	0	36	0
Bearing Device	3342	Clean and Paint Steel	72	72	42	18	12	0
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	304	0	0	60	244
Bridge Rail	3342	Clean and Paint Steel	0	306	0	0	0	306
Caps	3348	Maintenance of Concrete Substructure	0	122	0	0	0	122
Deck	3326	Maintenance of Concrete Deck	303	4753	0	0	603	4150
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	56	О	О	О	56
Piles and Columns	3348	Maintenance of Concrete Substructure	0	17	0	0	0	17
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	5	0	0	0	5
Wearing Surfaces	2816	Asphalt Surface Repair	24	4224	0	24	0	4200

Element Condition and Maintenance Data

Structure Number: 770156 Inspection Date: 04/29/2019

<u> </u>						opodion Bato. <u>0 1/20/</u>	
Span 1	Beam 2						
Prestressed Concret	e Girder						
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109 Prestre	ssed Concrete Open Girder/Beam	50	49	1	0	0 Feet	
lement lumber Defect Type	Defect Descripti	ion		cs	CS Qty	Maint Qty	
109 Delamination/Spall	4" DIAMETER X 1/2" DEEP SPALL WI' AT HOLD-DOWN POINT IN BOTTOM		PLATE	2	1	1 Feet	
General Comments							_

Span 1			Wearing Surface						
Asphalt	Wearing Sur	face							
Element Number		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearin	g Surface		1,412	1,388	0	24	0 ;	Square Feet
Element Number	Defect Type		Defect Description			cs	CS Qty	Maint Qty	
510 Crad	k (Mearing	24 FT TRANSVER	SE CRACK 1/8" WIDE A	T END BI	=NIT 1	3	24	24	Square Feet

General Comments

Surface)

Span 1		Left Bri	dge Rail					
Concrete	and Metal F	Railing						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other E	Bridge Railing	51	31	20	0	0	Feet
515	Steel P	rotective Coating	51	51	0	0	0	Square Feet
Element Number	Defect Type	Defect	Description		CS	CS Qty	Maint Qty	
333 Distor	tion	MULTIPLE GOUGES UP TO	6" X 3" IN RAIL		2	20		Feet
Genera	al Comments							

Span 1 Concrete	e and Metal Railing	Right Bride	ge Rail					
Element Number	EI	ement Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Ra	ailing	51	41	10	0	0	Feet
515	Steel Protective	Coating	51	51	0	0	0	Square Feet
Element Number	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
333 Dama	age IMPA	CT GOUGES IN STEEL RAII	L		2	10		Feet

Structure Number: 770156 Inspection Date: 04/29/2019

_								_
Spa	an 1	Near Beari	ng					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Elemei Numbe	Dofoot Typo	Defect Desc	cription		CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2		2 Square Feet
	General Comments							

Spa Oth	n 1 er Bearing	Far Bearing	9					
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bo	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
lemen lumbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SE	ECTION LOSS		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE	TIVE COATING		4	2		2 Square Feet
•	General Comments							

Spa	an 1	Near Beari	ng					
Oth	ner Bearing							
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Eleme Numb	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		3	2		2 Square Feet
	General Comments							

Spa Othe	n 1 er Bearing	Far Bearir	ng					
Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS ² Qty	1
316	Other Bo	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Dofoct Typo	Defect Des	cription		CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO S	SECTION LOSS		2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		4	2		2 Square Feet

Inspection Date: 04/29/2019

Structure Number: 770156

Spa	an 1	Near Bearin	g					
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Eleme Numb	Dofoot Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		3	2		2 Square Feet
	General Comments							

Spa	ın 1	Far Bearing						
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SEC	AKING WITH NO SECTION LOSS		2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTI	VE COATING		4	2		2 Square Feet
	General Comments							

Spa	an 1	Near Bear	ing					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Elemei Numbe	Dofoct Typo	Defect Des	cription		CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		3	2	;	2 Square Feet
	General Comments							

Span 1		Far Bearing						
Other B	earing							
Element Number	Element I	Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating)	2	0	0	0	2	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>770156</u>			Inspectio	n Date: <u>04/29/2019</u>
316	Corrosion	RUST AND FLAKING WITH NO SECTION LOSS	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet
	General Comments				

Spa	ın 1	Near Bearin	g					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTI	VE COATING		3	2		2 Square Feet
,	General Comments							

Spar	n 1	Far Bearing	g					
Othe	er Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316 Other Bearings		earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Element Number	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SI	NG WITH NO SECTION LOSS		2	1	-	Each
	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2		2 Square Feet
(General Comments							

Spar	n 1	Near Bear	ing					
Othe	er Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pro	otective Coating	2	0	0	2	0	Square Feet
Element Number	Defeat Type	Defect Des	scription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		3	2		2 Square Feet

Structure Number: 770156 Inspection Date: 04/29/2019

Spa	an 1	Far Bearing	g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO S	ECTION LOSS		2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2	2	2 Square Feet
	General Comments							

Spa	ın 2	Deck						
Rei	nforced Concrete	Deck						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,575	1,275	300	0	0 Squar	e Feet
lemen lumbe	Dofoct Typo	Defect Des	scription		CS	CS Qty	Maint Qty	
12 (Cracking (RC and Other)	300 SF. OF HAIRLINE MAP CRA	CKING IN BOTTOM	OF	2	300	300 Squ	are Feet
	General Comments							

	Left Bridg	ge Rail					
and Metal Railing							
Ele	ment Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty		
Other Bridge Rai	ling	50	40	10	0	0	Feet
Steel Protective	Coating	51	51	0	0	0	Square Feet
efect Type	Defect Des	scription		cs	CS Qty	Maint Qty	
on MULT	PLE GOUGES UP TO 6" >	X 3" IN RAIL		2	10	-	Feet
	Ele Other Bridge Rai Steel Protective	Element Name Other Bridge Railing Steel Protective Coating efect Type Defect Dec	Element Name Other Bridge Railing Steel Protective Coating Defect Description	And Metal Railing Element Name Other Bridge Railing Steel Protective Coating Defect Description Total Qty Qty Qty 10 11 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	And Metal Railing Element Name Other Bridge Railing Steel Protective Coating Defect Description Total CS1 CS2 Qty Qty Qty Qty 10 Steel Protective Coating 51 51 0	And Metal Railing CS2 CS3 CS2 CS3 CS4 CS4 CS4 CS4 CS5 C	And Metal Railing CS1 CS2 CS3 CS4

Spai	n 2	Near Beari	ng					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	316 Other Bearings		1	0	1	0	0	Each
515	Steel Pr	rotective Coating	2	0	0	0	2	Square Feet
Element Number	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	1/8" OF PACK RUST			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2		2 Square Feet

Structure Number: 770156 Inspection Date: 04/29/2019

2	Far Bearing	9					
r Bearing							
ent oer	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty		
Other Be	earings	1	0	1	0	0	Each
Steel Pro	otective Coating	2	0	0	0	2	Square Feet
Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
Corrosion	1/16" OF PACK RUST			2	1	•	Each
Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	TIVE COATING		4	2		2 Square Feet
	Present Other Book Steel Property Type Corrosion Effectiveness (Steel	r Bearing ent Der Element Name Other Bearings Steel Protective Coating Defect Type Defect Type Corrosion 1/16" OF PACK RUST Effectiveness (Steel 2 SF. OF INEFFECTIVE PROTECT	r Bearing ent Element Name Qty Other Bearings 1 Steel Protective Coating 2 Defect Type Defect Description Corrosion 1/16" OF PACK RUST Effectiveness (Steel 2 SF. OF INEFFECTIVE PROTECTIVE COATING	r Bearing ent Element Name Qty Qty Other Bearings 1 0 Steel Protective Coating 2 0 Defect Type Defect Description Corrosion 1/16" OF PACK RUST Effectiveness (Steel 2 SF. OF INEFFECTIVE PROTECTIVE COATING	Part Company Company	Part Company Company	Part Corrosion 1/16" OF PACK RUST CS1 CS2 CS3 CS4

Spa Oth	in 2 er Bearing	Near Beari	ng					
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	1/16" OF PACK RUST			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2		2 Square Feet
•	General Comments							

Spa	an 2	Far Bearin	g					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Eleme	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		4	2		2 Square Feet
	General Comments							

Spa Oth	n 2 er Bearing	Near Bear	ing					
	nent nber Other	Element Name Bearings	Total Qty 1	CS1 Qty 0	CS2 Qty	CS3 Qty	CS4 Qty	
515		Protective Coating	2	0	0	0	_	Square Feet
lemen	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	1/16" OF PACK RUST			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		4	2		2 Square Feet

Inspection Date: 04/29/2019

Structure Number: 770156

Spa	an 2	Far B	earing					
Oth	ner Bearing							
	ement imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Ot	her Bearings	1	0	1	0	0	Each
515	Ste	eel Protective Coating	2	0	0	0	2	Square Feet
Eleme Numb	Dofoot Tyr	pe Defe	ct Description		cs	CS Qty	Maint Qty	
316	Corrosion	1/16" OF PACK RUST			2	1	-	Each
515	Effectiveness (Si Protective Coatin		ROTECTIVE COATING		4	2		2 Square Feet
	General Commer	nts						

Spa	ın 2	Near Bearing	Í					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other I	Bearings	1	0	1	0	0	Each
515	Steel F	Protective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Dofoot Typo	Defect Descrip	otion		cs	CS Qty	Maint Qty	
316	Corrosion	1/16" OF PACK RUST			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE	/E COATING		4	2		2 Square Feet
	General Comments							

Spa	an 2	Far Beari	ng					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel P	rotective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
316	Corrosion	1/16" OF PACK RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTE	CTIVE COATING		4	2	:	2 Square Feet
	General Comments							

Span 2		Near Bearing						
Other B	earing							
Element Number	Element	Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0 E	ach
515	Steel Protective Coating	g	2	0	0	2	0 S	quare Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>770156</u>			Insped	ction Date: <u>04/29/2019</u>
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet
	General Comments				

Spa	n 2	Far Bearing						
Othe	er Bearing							
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pi	rotective Coating	2	0	0	0	2	Square Feet
lemen lumbe	Dofoct Typo	Defect Descri	iption		cs	CS Qty	Maint Qty	
316	Corrosion	1/16" OF PACK RUST			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTI	IVE COATING		4	2		2 Square Feet
-	General Comments							

Spar	າ 2	Near Bearin	ng					
Othe	er Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bo	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	2	0	Square Feet
Element Number	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	TIVE COATING		3	2	:	2 Square Feet
G	General Comments							

Spai	n 2	Far Beari	ng					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pro	otective Coating	2	0	0	0	2	Square Feet
lement	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
316	Corrosion	1/16" OF PACK RUST			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTE	CTIVE COATING		4	2		2 Square Feet

Structure Number: 770156 Inspection Date: 04/29/2019

n 3	Deck						
forced Concrete	Deck						
	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Deck	1,589	1,286	303	0	0	Square Feet
Dofoct Type	Defect Descr	ription		cs	CS Qty	Maint Qty	
Cracking (RC and Other)				2	3	•	3 Square Feet
Cracking (RC and Other)	300 SF. OF HAIRLINE MAP CRACI	KING IN BOTTOM	OF	2	300		Square Feet
	Reinfor The control of the control	Interced Concrete Deck The Bernst Name Reinforced Concrete Deck The Be	Interced Concrete Deck Interced Concrete Deck Reinforced Concrete Deck Reinforced Concrete Deck I Defect Type Cracking (RC and Other) Cracking (RC and Other)	Interced Concrete Deck Tender Element Name Qty Qty Reinforced Concrete Deck 1,589 1,286 Defect Type Defect Description Cracking (RC and Other) 24" AND 12" TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK BAY 3, 10 FT. FROM BENT 2 Cracking (RC and 300 SF. OF HAIRLINE MAP CRACKING IN BOTTOM OF	Interced Concrete Deck Tender Element Name Qty Qty Qty Reinforced Concrete Deck 1,589 1,286 303 Defect Type Defect Description CS Cracking (RC and Other) 24" AND 12" TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK BAY 3, 10 FT. FROM BENT 2 Cracking (RC and 300 SF. OF HAIRLINE MAP CRACKING IN BOTTOM OF 2	Interced Concrete Deck Tend CS1 CS2 CS3 Defect CS2 CS3 Defect Type Defect Description CS CS Defect Type Defect Description CS CS Cracking (RC and Other) 24" AND 12" TRANSVERSE HAIRLINE CRACKS WITH 2 3 EFFLORESCENCE IN BOTTOM OF DECK BAY 3, 10 FT. FROM BENT 2 Solution Soluti	Interced Concrete Deck Tend CS1 CS2 CS3 CS4 There Element Name Qty Qty Qty Qty Qty Qty Qty Qty Qty Reinforced Concrete Deck 1,589 1,286 303 0 0 The Cracking (RC and Cand Concrete Deck 1,589 Local CS3 CS Qty

Concre	te and Metal	Railing						
Element Number	="	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other E	Bridge Railing	51	39	12	0	0	Feet
515	Steel P	rotective Coating	51	51	0	0	0	Square Feet
Element Number	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
333 Dis	tortion	MULTIPLE GOUGES UP TO 12" >	K 1" IN RAIL		2	12	•	Feet

General Comments

Span 3		Right Bridg	ge Rail					
Concre	te and Metal Railin	g						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge	Railing	51	43	8	0	0	Feet
515	Steel Protective	ve Coating	51	51	0	0	0	Square Feet
lement lumber	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
333 Dar	mage IMF	PACT GOUGES IN STEEL RAIL	_		2	8		Feet
Gen	eral Comments							

Spa	n 3	Near Bear	ing					
Othe	er Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Element Number	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO S	SECTION LOSS		2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		4	2		2 Square Feet

Structure Number: 770156 Inspection Date: 04/29/2019

Spa	an 3	Fa	r Bearing					
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Oth	ner Bearings	1	0	1	0	0	Each
515	Ste	el Protective Coating	2	0	2	0	0	Square Feet
Eleme	Dofoct Type	е С	Defect Description		cs	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST			2	1	•	Each
515	Effectiveness (Ste Protective Coatin		ECTIVENESS OF PROTECTI	VE	2	2		2 Square Feet
	General Commen	ts						

Spa	an 3	Near Bearing	g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Dofoct Typo	Defect Descri	ption		CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SEC	CTION LOSS		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTI	VE COATING		4	2		2 Square Feet
	General Comments							

Spa	an 3	Far Bearin	g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other E	Bearings	1	0	1	0	0 E	ach
515	Steel P	rotective Coating	2	0	2	0	0 8	Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENE COATING	SS OF PROTECTIVE		2	2	2	Square Feet
	General Comments							

Spai	n 3	Near Bear	ing					
Othe	er Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Element Number	Dofoct Typo	Defect Des	scription		CS	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO	SECTION LOSS		2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	CTIVE COATING		4	2		2 Square Feet

Inspection Date: 04/29/2019

Structure Number: 770156

Spa	an 3			Far Bearing						
Oth	ner Bearing									
	ement ımber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	earings		1	0	1	0	0	Each
515		Steel Pr	otective Coating		2	0	2	0	0	Square Feet
Eleme Numb	Dofoot	Туре		Defect Description			cs	CS Qty	Maint Qty	
316	Corrosion		FRECKLED RUST				2	1		Each
515	Effectivenes		2 SF. OF LIMITED E	EFFECTIVENESS OF PI	ROTECTIVE		2	2		2 Square Feet
	General Com	ments								

Spa	n 3	Near Bearing	g					
Oth	er Bearing							
Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO SEC	CTION LOSS		2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE	VE COATING		4	2		2 Square Feet
-	General Comments							

Spa	an 3	Far Bearii	ng					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other	Bearings	1	0	1	0	0	Each
515	Steel F	Protective Coating	2	0	2	0	0	Square Feet
Elemer	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVEN COATING	ESS OF PROTECTIVE		2	2		2 Square Feet
	General Comments							

Span 3		Near Bearing						
Other B	earing							
Element Number	Element N	lame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating		2	0	0	2	0	Square Feet
lement umber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>770156</u>	Insped	ction Date: <u>04/29/2019</u>		
316	Corrosion	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2 Square Feet
	General Comments				

_								
Span 3 Far Bearing								
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other E	Bearings	1	0	1	0	0	Each
515	Steel P	rotective Coating	2	0	2	0	0	Square Feet
Elemer Numbe	Dofoct Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST			2	1		Each
515	515 Effectiveness (Steel 2 SF. OF LIMITED Protective Coatings) COATING		ESS OF PROTECTIVE		2	2		2 Square Feet
	General Comments							

Spa	an 3	Near Beari	ng					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bo	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	RUST AND FLAKING WITH NO S	ECTION LOSS		2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2		2 Square Feet
	General Comments							

Span 3 Far Bearing								
Othe	er Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pro	otective Coating	2	0	2	0	0	Square Feet
Element Number	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
316	Corrosion	FRECKLED RUST			2	1	•	Each
	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVEN COATING	ESS OF PROTECTIVE		2	2		2 Square Feet

Structure Number: 770156 Inspection Date: 04/29/2019

End	d Bent 1	Abutment							
Rei	nforced Concrete	Abutment							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
215	Reinfor	ced Concrete Abutment	32	3	29	0	0	Feet	
Eleme	Dofoot Typo	Defect Descri	iption		cs	CS Qty	Maint Qty		
215	Cracking (RC and Other)	HAIRLINE MAP CRACKING IN ALL	BAYS		2	29		Feet	
	General Comments								

End Bei	nt 2	Cap 1						
Reinfor	ced Concrete Pier Cap							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap)	32	32	0	0	0 Feet	
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

Enc	d Bent 2	Abutment						
Rei	nforced Concrete	Abutment						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfo	Reinforced Concrete Abutment		14	18	0	0	Feet
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
215	Cracking (RC and Other)	HAIRLINE MAP CRACKING AT W THROUGHOUT ABUTMENT IN AL			2	18	-	Feet

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1589
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1412
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1575
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 2	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 2	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	50
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	50
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	28
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1589
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 5	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Beam 6	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	50
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Expansion Joint	Standard Joint	Pourable Joint Seal	28
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1412
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 1	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	32
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 2	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	32

General Inspection Notes

Bent 2 Cap 1

END BENT PILES NOT VISIBLE DUE TO CONCRETE SLOPE PROTECTION

National Bridge and NC Inspection Items

Structure Number: 770156 Inspection Date: 04/29/2019

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	7
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation		О		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years			
Superstructure Paint Code				

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	4
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	Υ

National Bridge and NC SMU Inspection Item Details

Structure Number: 770156 Inspection Date: 04/29/2019

 Item
 Other Equipment Used
 Grade Y
 Maint Code
 Qty. 0

 Details BOOTS

 Item
 General Comments and Misc Items
 Grade
 Maint Code
 Qty. 0

Details DAMAGED GUARDRAIL (40 FT.) IN NORTH WEST CORNER

DAMAGED GUARDRAIL AT SOUTHWEST CORNER 20 FT.

DAMAGED GUARDRAIL AT SOUTHEAST CORNER 20 FT.



Span 2 Beam 1 Near Bearing: 1/8" OF PACK RUST



Span 2 Beam 2 Far Bearing: SURFACE RUST



Span 3 Beam 2 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 3 Beam 4 Far Bearing: FRECKLED RUST



Span 3 Deck: 24" AND 12" TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK BAY 3, 10 FT. FROM BENT 2



Span 3 Deck: 300 SF. OF HAIRLINE MAP CRACKING IN BOTTOM OF DECK



Span 3 Beam 6 Near Bearing: RUST AND FLAKING WITH NO SECTION LOSS



End Bent 2 Abutment/Backwall : HAIRLINE MAP CRACKING AT WEST END , SIMILAR THROUGHOUT ABUTMENT IN ALL BAYS



DAMAGED GUARDRAIL (40 FT.) IN NORTH WEST CORNER



Span 3 Right Bridge Rail: IMPACT GOUGES IN STEEL RAIL



Span 3 Left Bridge Rail: MULTIPLE GOUGES UP TO 12" X 1" IN RAIL



Span 2 Left Bridge Rail: MULTIPLE GOUGES UP TO 6" X 3" IN RAIL



Span 1 Left Bridge Rail: MULTIPLE GOUGES UP TO 6" X 3" IN RAIL



Span 1 Right Bridge Rail: IMPACT GOUGES IN STEEL RAIL



DAMAGED GUARDRAIL AT SOUTHWEST CORNER 20 FT.



DAMAGED GUARDRAIL AT SOUTHEAST CORNER 20 FT.



Span 1 Beam 6 Far Bearing: RUST AND FLAKING WITH NO SECTION LOSS



Span 1 Beam 2: 4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED PLATE AT HOLD-DOWN POINT IN BOTTOM FLANGE



GUARDRAIL END TERMINAL



LOOKING SOUTH, NORTHBOUND LANE



GUARDRAIL POST SPACING AT MID PORTION



EAST PROFILE



END BENT 2



BENT 2



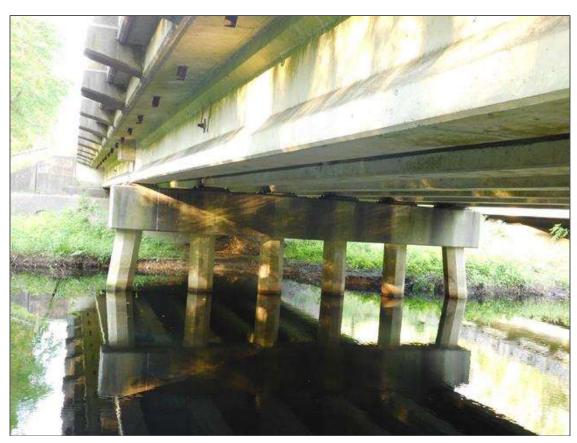
EAST END OF BENT 2 CAP, SIMPLE SPANS



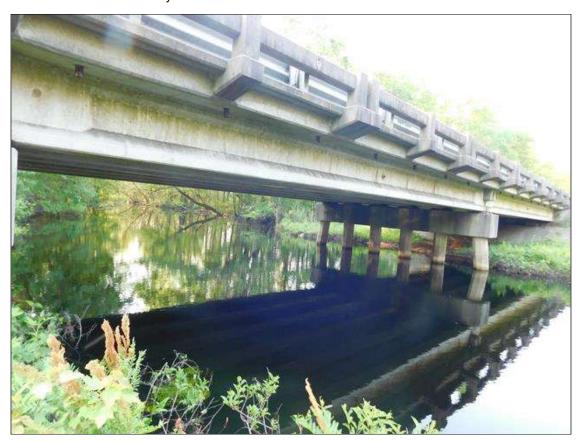
UPSTREAM WEST



SUPERSTRUCTURE



BENT 1



DOWNSTREAM EAST



WEST PROFILE



BENT 1 JOINT, BENT 2 JOINT SIMILAR



LOOKING NORTH, OFF BRIDGE



LOOKING SOUTH, OFF BRIDGE



UPSTREAM WEST



DOWNSTREAM EAST



LOOKING NORTH



BENT 1



END BENT 1

Stream Bed Soundings (Profile diagram on following sheet)

County ROBESON Structure Number: 770156 Inspection Date 04/29/2019

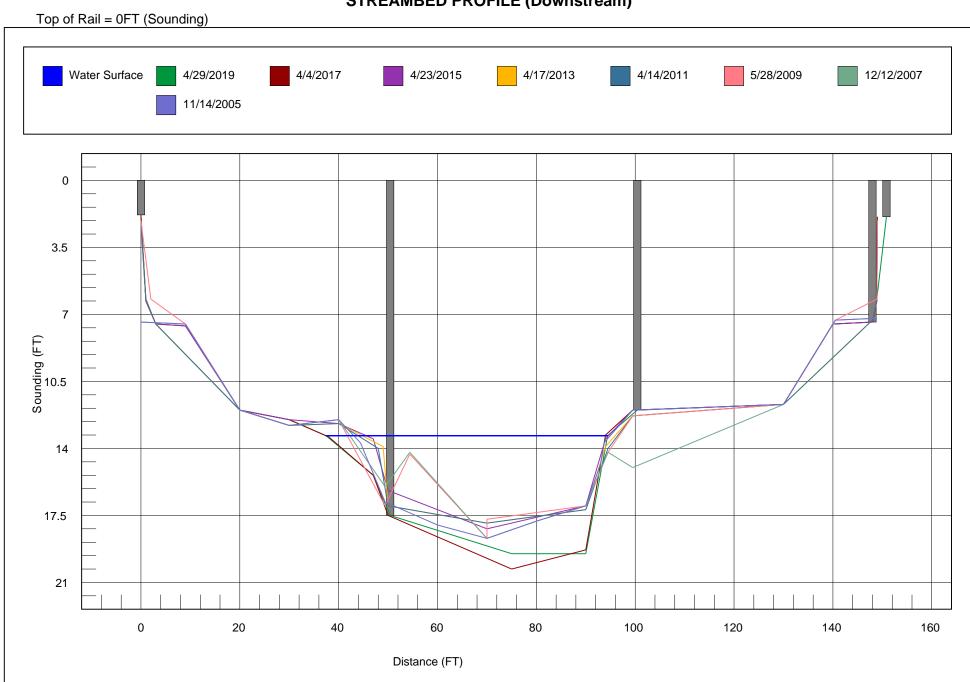
Sounding recorded from: Top of Bridge Rail

Highwater Mark Distance 5 Location of Highwater Mark ON BEAMS

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	1.800	0.000	TOP OF ABUTMENT 1
1.000	6.300	0.000	TOP OF CAP
3.000	7.500	7.400	TOP OF SLOPE PROTECTION BERM, AT CAP
20.000	12.000	0.000	
30.000	12.500	0.000	
37.417	13.330	0.000	WSWE (EAST)
47.000	15.400	0.000	
50.417	17.500	17.417	BENT 1
75.000	19.500	0.000	
90.000	19.500	0.000	
94.417	13.330	0.000	WSWE
100.417	12.000	12.250	bent 2
130.000	11.700	0.000	
140.000	7.500	0.000	
148.000	7.400	7.200	TOP OF SLOPE PROTECTION BERM , END BENT 2 CAP FACE
148.833	6.300	0.000	TOP OF CAP
150.833	1.900	0.000	TOP OF ABUTMENT 2

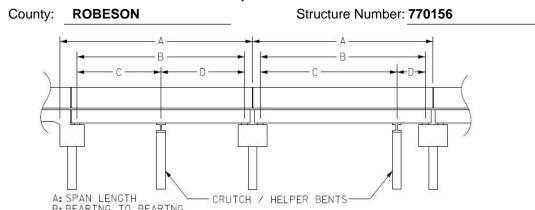
Bridge: 770156 County: ROBESON Date: 04/29/2019

STREAMBED PROFILE (Downstream)



Structure Data Worksheet

Span Profile



A: SPAN LENGTH
B: BEARING TO BEARING
C: DISTANCE FROM NEAR BEARING
D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	50.417	47.333			
2	50.000	48.917			
3	50.417	47.333			

NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 09/17/2019

IDENTIFICATION -			
(1) STATE NAME -NORTH CAROLINA BRIDGE	770156	SUFFICIENCY RATING =	71.24
(8) STRUCTURE NUMBER(FEDERAL) 000	0000001550156	STATUS = Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	11000950		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		— CODE
(3) COUNTY CODE 155 (4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - BIG MARSH SWAMP		(104)HIGHWAY SYSTEM Is on the NHS	
(7) FACILITY CARRIED 195 NBL		(26) FUNCTIONAL CLASS - Arterial - Interstate	0.
(9) LOCATION 0.6 MI.S. OF JCT.NC20		(100)STRAHNET HIGHWAY - Interstate STRAHNET Route	
(11)MILEPOINT	30.7	(101)PARALLEL STRUCTURE - Right Parallel Structure	F
(16)LAT 34° 48' 11.04" (17)LONG 78° 59' 2	2.66"	(102)DIRECTION OF TRAFFIC - 1-way Traffic	
(98)BORDER BRIDGE STATE CODE PCT SHA	ARE	(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - On the National Network	
		(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL —		(31) MAINTAIN - State Highway Agency	0,
(43) STRUCTURE TYPE MAIN: Prestressed Concrete		(22) OWNER - State Highway Agency	0,
TYPE - Stringer Mutlibeam or Girder	CODE 502	(37) HISTORICAL SIGNIFICANCE - Not Eligible	
(44) STRUCTURE TYPE APPR :		(, , , , , , , , , , , , , , , , , , ,	
TYPE -	CODE 000	CONDITION	— CODE
(45) NUMBER OF SPANS IN MAIN UNIT	3	(58) DECK	CODE
(46) NUMBER OF APPROACH SPANS	· ·	(59) SUPERSTRUCTURE	
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	-
(108)WEARING SURFACE / PROTECTIVE SYSTEM :	OODL	(61) CHANNEL & CHANNEL PROTECTION	-
(A) TYPE OF WEARING SURFACE - Bituminous	CODE 6	(62) CULVERTS	,
(B) TYPE OF MEMBRANE - None	CODE 0	• •	
(C) TYPE OF DECK PROTECTION - None	CODE 0	LOAD RATING AND POSTING	
(C) THE OF DECK PROTECTION - Notice	CODE 0	(31) DESIGN LOAD HS 20 + MOD	(
ACE AND SERVICE		(63) OPERATING RATING METHOD - Field Evaluation and Docum	ent (
AGE AND SERVICE (27) YEAR BUILT	1959	(64) OPERATING RATING - HS-27	49
	1959	(65) INVENTORY RATING METHOD - Field Evaluation and Docume	nt (
(106)YEAR RECONSTRUCTED		(66) INVENTORY RATING - HS-16	29
(42) TYPE OF SERVICE : ON - Highway	0005 45	(70) BRIDGE POSTING - No Posting Required	
UNDER - Waterway	CODE 15	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	A
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0	DESCRIPTION - Open, No Restriction	
(29) AVERAGE DAILY TRAFFIC	25000	APPRAISAL	— CODE
(30) YEAR OF ADT 2017 (109) TRUCK ADT PCT	23%	(67) STRUCTURAL EVALUATION	(
(19) BYPASS OR DETOUR LENGTH	1 MI	(68) DECK GEOMETRY	2
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERTI & HORIZ	١
(48) LENGTH OF MAXIMUM SPAN	49 FT	(71) WATERWAY ADEQUACY	7
(49) STRUCTURE LENGTH	151 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT	0 FT	(36) TRAFFIC SAFETY FEATURES	1111
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28 FT	(113)SCOUR CRITICAL BRIDGES	8
(52) DECK WIDTH OUT TO OUT	33.5 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	30 FT	(75) TYPE OF WORK - COI	DE
(33) BRIDGE MEDIAN - Open Median	CODE 1	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 0° (35) STRUCTURE FLARED	0	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	28 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT	(114)FUTURE ADT 50000 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT	(1.6) (2.11.1.516)	2020
(56) MIN LAT UNDERCLEAR LT REF -	000 FT	INSPECTIONS	
		(90) INSPECTION DATE	04/29/2019
———NAVIGATION DATA ———		(92) CRITICAL FEATURE INSPECTION: (93) CFI DA	TE
(38) NAVIGATION CONTROL - No Navigational Control	CODE 0	A) FRACTURE CRIT DETAIL - NO A)	
(111)PIER PROTECTION -	CODE	B) UNDERWATER INSP - NO B)	
(39) NAVIGATION VERTICAL CLEARANCE	0	C) OTHER SPECIAL INSP NO C)	
(39) NAVIGATION VERTICAL CLEARANCE (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	0 FT	C) OTHER SPECIAL INSP NO C) SCOUR	

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 09/17/2019 COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH: **ROBESON** 151 770156 FEET **ROUTE CARRIED:** FEATURE INTERSECTED: 195 NBL **BIG MARSH SWAMP** LOCATED: BRIDGE NAME: 0.6 MI.S. OF JCT.NC20 CITY: RAIL TYPE: FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: FA NFA 25000 2017 LT 333 RT 333 BUILT: BY: PROJ: FED.AID PROJ: **DESIGN LOAD:** SHC 8.13972 HS 20 + MOD 1959 REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES: TAN 90 2 **UNDER** ON 0 **NAVIGATION:** HT. CRN. TO BED: WATER DEPTH: 0 HC 0 FT 18 FT FT VC FT SUPERSTRUCTURE: RC FLOOR/PPC GIRDERS

SUBSTRUCTURE: E.BTS&INT.BTS:RC CAPS/PPC PILES

SPANS: 1@50'5;1@50';1@50'5

BEAMS OR GIRDERS: 6 LINES 36" PPC GIRDERS @ 5' CTS.

FLOOR: **ENCROACHMENT:** DECK (OUT TO OUT):

7 RC/3"AWS 33.5 FT

CLEAR ROADWAY: **BETWEEN RAILS:** SIDEWALK OR CURB:

28 FT 28 FT LT 0 FT RT 0 FT

VERT.CL.OVER: 999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-27 BEAM INT. HS-16 TTST DATE SV

SYSTEM: **GREEN LINE ROUTE:**

Υ Primary Interstate

UNDER ROUTES AND CLEARANCES

REMARKS:

Bridge Inspection Field Sketch

I-95 NBL

MEASURED AT 10 FT. SOUTH OF STRUCTURE

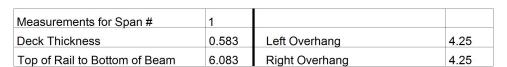
Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	3ft Wide	3ft Paved	
Right Shoulder	3ft Wide	3ft Paved	
Left Guardrail	3ft from road		
Right Guardrail	3ft from road		

MEASUREMENTS VERIFIED 4/4/2017 BY MJM MEASUREMENTS VERIFIED BY RLK 4/29/19

Title			Description			
APPROACH ROADWAY			LOOKING NORTH			
Bridge No: 770156	Drawn By: RLK	Date: 04/14/2011 File Name: \$00980005				

Bridge Inspection Field Sketch

Deck Width/Out to Out	Betwee	Between Rails				
Clear Roadway	28ft	Wearin	ng Surface		0.25ft	
Median Width		Mediar	Median Height			
Curb Height		Left	0.583ft	Right	0.583ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)	Left		Right		
Guardrail Width		Left	2.75ft	Right	2.75ft	
Top of Rail to Deck/Wearing Su	ırface	Left	2.333ft	Right	2.333ft	
Bridge Rail		Left	Type 33	Right	Type 33	

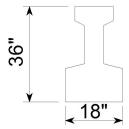


Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	5ft	
2	PPC Girder	5ft	
3	PPC Girder	5ft	
4	PPC Girder	5ft	
5	PPC Girder	5ft	
6	PPC Girder	ft	

MEASUREMENTS VERIFIED 4/4/2017 BY MJM

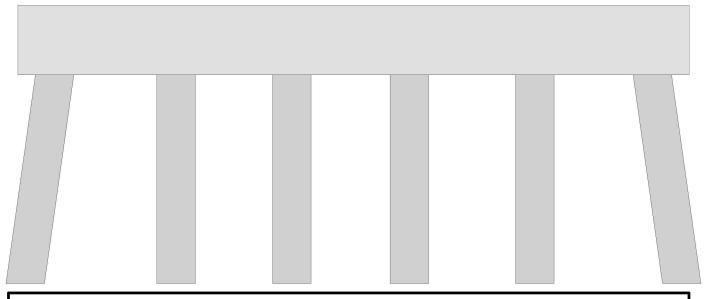
MEASUREMENTS VERIFIED BY RLK 4/29/19

SIMILAR GIRDER



Title			Description				
Superstructure			Span 1				
Bridge No: 770156 Drawn By: RBH			Date: _{12/12/07}	File Name: \$0098000575			

Bridge Inspection Field Sketch



Cap Information Material Cast-in-Place Concrete												
Lengt		Height	Left Over		Right Overh		Left Be	eam to Er	nd of Cap.	Righ	t Beam to En	d of Cap.
29.000		_	1.583	-	1.583 ft.	t. 2.000 ft.				2.000 ft.		
Subcar	bcap Information Material											
Lengt	h Width	Height	Left Over	hang	Right Overh	nang	Left Pi	le to Splid	ce.			
Sill Info	ormation		Material									
Lengt	h Width	Height	eight									
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orie	ntation	Driven?	Replacem	ent?	Removed?	Collar?
1	Concrete	5.25 ft.	1.66 ft.			Batte	ered	Yes	No		No	No
2	Concrete	5.00 ft.	1.66 ft.			Vert	ical	Yes	No		No	No
3	Concrete	5.08 ft.	1.66 ft.			Vert	ical	Yes	No		No	No
4	Concrete	5.42 ft.	1.66 ft.			Vert	ical	Yes	No		No	No
5	Concrete	5.08 ft.	1.66 ft.			Vert	ical	Yes	No		No	No
6	Concrete		1.66 ft.			Batte	ered	Yes	No		No	No
MEASUREMENTS VERIFIED BY SFS 4/29/19												
Bent/A	butment #:	1	Similar E	Bents:	2							

Title MEASUREMENTS UPDATED 4/4/2017 BY MJM Substructure			Description Bent 1				