NC DEPARTMENT OF TRANSPORTA DIVISION OF HIGHWAYS STRUCTURE MANAGEMENT UNIT	TION ATTENTION: CHANGES MADE TO SPAN 2 CLE SPAN 2 BEAM 1	ARANCE, PARs FOR
Struc	ture Safety Report	
Supple	emental Element Inspection	
STRUCTURE NUMBER: 110144 SAP STR	RUCTURE NO: 0120144 FHWA STRUCTURE NO:	00000000230144
DIVISION: 13 COUNTY: BURKE	INSPECTION DATE: 09/19/2024 FREQUENCY:	None
FACILITY CARRIED: SR1704	MILE POST:	
LOCATION: .2 MI.N.JCT.SR1712		
FEATURE INTERSECTED: I-40		
LATITUDE: 35° 43' 31.7"	LONGITUDE: 81° 38' 10.99"	
SUPERSTRUCTURE: _ REINFORCED CONCRETE F	LOOR ON I-BEAMS	
SUBSTRUCTURE: E.BTS:RC CAPS/TIMBER PILES;	NT.BTS:RC POST&BEAM	
SPANS: 4 SPANS. SEE SPAN PROFILE SHEET F	OR SPAN DETAILS	
	RING SCOUR CRITICAL SCOUR PLAN OF	F ACTION
GRADES: (Inspector/NBI Coding) DECK 6/6 SUF	ERSTRUCTURE 4/5 SUBSTRUCTURE 5/5 CUL	VERT N/N
POSTED SV: Not Posted	POSTED TTST: Not Posted	

OTHER SIGNS PRESENT: NONE

		Sign notice issued for	d	MIT	Number Required
		NO	DELINEAT	ORS	0
		NO	NARROW BR	IDGE	0
		NO	ONE LANE BF	RIDGE	0
		NO	LOW CLEAR	ANCE	0
		DIRE(INSF	CTION OF PECTION	S-N	
		DIR MATCH	ECTION IES PLANS		
Looking East					
INSPECTED BY ME CARTER	SIGNATURE	ASSISTED BY	γ JLR		

NATIONAL BRIDGE INVENTORY ----- STRUCTURE INVENTORY AND APPRAISAL

12/17/2024

IDENTIFICATION			
(1) STATE NAME NORTH CAROLINA BRIDGE	110144	SUFFICIENCY RATING	59.17
(8) STRUCTURE NUMBER (FEDERAL)	0230144	STATUS =	
(5) INVENTORY ROUTE (ON/UNDER) ON 13	31017040	CLASSIFICATION	CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT	13	(112) NBIS BRIDGE SYSTEM	YES
(3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE (6) FEATURE INTERSECTED 140	44400	(104) HIGHWAY SYSTEM Inventory Route not on NHS	0
(7) FACILITY CARRIED SR1704		(26) FUNCTIONAL CLASS Urban Collector	17
(9) LOCATION .2 MI.N.JCT.SR1712		(100) STRAHNET HIGHWAY Not a STRAHNET Route	0
(11) MILEPOINT	0.0	(101) PARALLEL STRUCTURE No parallel structure exists	Ν
(12) BASE HIGHWAY NETWORK	0	(102) DIRECTION OF TRAFFIC 2-way traffic	2
(13) LRS INVENTORY ROUTE & SUBROUTE	99' 10 00"	(103) TEMPORARY STRUCTURE	
(10) LATTODE 35 43 31.7 (17) LONGTODE 81 3 (98) BORDER BRIDGE STATE CODE PERCENT SHARED	10.99	(110) DESIGNATED NATIONAL NETWORK - on national network for trucks	0
(99) BORDER BRIDGE STRUCTURE NUMBER		(20) TOLL On Free Road	3
		(21) MAINT -	01
	Chaol		01
(43) STRUCTURE TYPE MAIN	Steel	(22) OWNER -	01
Stringer/Multi-beam or girder CODE	302	(37) HISTORICAL SIGNIFICANCE -	5
(44) STRUCTURE TYPE APPROACH		CONDITION	CODE
TYPE CODE		(58) DECK	6
(45) NUMBER OF SPANS IN MAIN UNIT	4	(59) SUPERSTRUCTURE	5
(46) NUMBER OF SPANS IN APPROACH	0	(60) SUBSTRUCTURE	5
(107) DECK STRUCTURE TYPE CODE	1	(61) CHANNEL & CHANNEL PROTECTION	Ν
(108)WEARING SURFACE/PROTECTIVE SYSTEM		(62) CULVERTS	Ν
(A) TYPE OF WEARING SURFACE CODE	6	LOAD RATING AND POSTING	CODE
(B) TYPE OF MEMBRANE CODE	0	(31) DESIGN LOAD HS 15	3
(C) TYPE OF DECK PROTECTION CODE	0	(63) OPERATING RATING METHOD - Load Factor	1
AGE AND SERVICE		(64) OPERATING RATING - HS-27	48
(27) YEAR BUILT	1955	(65) INVENTORY RATING METHOD -	1
(106) YEAR RECONSTRUCTED	0	(66) INVENTORY RATING HS-16	28
(42) TYPE OF SERVICE ON - Overpass S	Structure	(70) BRIDGE POSTING No Posting Required	5
OFF - Highway CODE	61	(41) STRUCTURE OPEN, POSTED, OR CLOSED	А
(28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE	4	DESCRIPTION Open, no restriction	
(29) AVERAGE DAILY TRAFFIC	3800		CODE
(30) YEAR OF ADT 2022 (109) TRUCK ADT PCT	7	(67) STRUCTURAL EVALUATION	5
(19) BYPASS OR DETOUR LENGTH	1.0	(68) DECK GEOMETRY	3
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERT & HORIZ	3
(48) LENGTH OF MAXIMUM SPAN	51.0	(71) WATERWAY ADEQUACY	Ν
(49) STRUCTURE LENGTH	182.0	(72) APPROACH ROADWAY ALIGNMENT	8
(50) CURB OR SIDEWALK: LEFT 3.3 RIGHT	3.3		0111
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	26.0		N
(52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WIDTH (W/ SHOULDERS)	34.3 27.0		IN
(33) BRIDGE MEDIAN No median CODE	0		
(34) SKEW 7 (35) STRUCTURE FLARED	0		,,
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	26.0		
	999.9	(95) ROADWAY IMPROVEMENT COST	
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE	14.5	(96) TOTAL PROJECT COST	
(56) MIN LAT UNDERCLEARANCE LT:	13.1	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
		(114) FUTURE ADT 7,600 YEAR OF FUTURE ADT	2040
	N		
	IN I	(92) CRITICAL FEATURE INSPECTION (93) CELDA	TF
	0.0		
	0.0		
(110) VERT - LIFT BRIDGE NAV MIN VERT GLEAR	0.0		
(40) NAVIGATION HORIZONTAL CLEARANCE	0.0	U) UI DER OFEUIAL INOP ()	
		SCOUR	

			tical							raffic	JCe			See N	Vote Be	low			E	
Span Number	Facility Carried	Inventory Route	Maximum Minimum Ver Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classificatior	Number of Lanes	Average Daily Traffic	Year of Average Daily T	Total Horizontal Clearar	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	National Highway Syste	Notional Truck Notion
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	2 104	1
2	I 40 E	11000400	15.1	106.4	1	10040	11	2	22500	2015	42.2	Н	14.9	10.5	13.1	3		1		
3	I 40 W	11000400	16.9	106.4	1	10040	11	2	22500	2015	42.7	Н	16.2	10.6	13.2	4		1		

Note: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69.

Superstructure Build Details

Skew 97.000

Span Length 35.330

Span Number <u>1</u>

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
5	Plate Girder	Steel Open Girder/Beam	175 Feet		Legacy Non Lead Primer System with various Topcoats	1700
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1213	Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	919	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	72	Feet		
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5

Number						Quantity						
of Items	Type of Component	Element Name		Quantity	Protective System Applied	(Sq Ft)						
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5						
1	Asphalt Wearing Surface	Wearing Surface	1365	Square Feet								
1	Standard Joint	Pourable Joint Seal	27	Feet								
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1803	Square Feet								
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5						
2	Concrete Railing	Reinforced Concrete Bridge Railing	106	Feet								
5	Plate Girder	Steel Open Girder/Beam	265	Feet	Legacy Non Lead Primer System with various Topcoats	2580						
Span Nu	Span Number 3 Span Length 52.500 Skew 97.000											

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1365	Square Feet		
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
5	Plate Girder	Steel Open Girder/Beam	265	Feet	Legacy Non Lead Primer System with various Topcoats	2580
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1803	Square Feet		

Superstructure Build Details

2	Concrete Railing	Reinforced Concrete Bridge Railing	106	Feet		
1	Standard Joint	Pourable Joint Seal	27	Feet		
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
Span Nu	imber <u>4</u> Span	Length <u>42.000</u>		Ske	ew 97.000	

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1092	Square Feet		
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
1	Standard Joint	Pourable Joint Seal	27	Feet		
5	Plate Girder	Steel Open Girder/Beam	205	Feet	Legacy Non Lead Primer System with various Topcoats	2030
2	Concrete Railing	Reinforced Concrete Bridge Railing	84	Feet		
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1442	Square Feet		

Structure Element Scoring

Structure Number: 110144

Inspection Date 9/19/2024

r								
Element	Parent			Total	Level 1	Level 2	Level 3	Level 4
Number	Number	Element Name	Location	Quantity	Quantity	Quantity	Quantity	Quantity
12		Reinforced Concrete Deck	Deck	6,261	3,507	2,752	2	0
107		Steel Open Girder/Beam	Beam	910	802	45	50	13
515	107	Steel Protective Coating	Beam	8,890	8,874	0	0	16
205		Reinforced Concrete Column	Piles and Columns	9	0	1	8	0
215		Reinforced Concrete Abutment	Abutments	72	55	15	2	0
220		Reinforced Concrete Pile Cap/Footing	Footing	18	18	0	0	0
228		Timber Pile	Piles and Columns	14	14	0	0	0
234		Reinforced Concrete Pier Cap	Caps	160	56	57	47	0
301		Pourable Joint Seal	Expansion Joints	81	23	6	0	52
311		Movable Bearing	Bearing Device	20	0	4	16	0
515	311	Steel Protective Coating	Bearing Device	20	0	0	1	19
313		Fixed Bearing	Bearing Device	20	0	7	13	0
515	313	Steel Protective Coating	Bearing Device	20	0	0	5	15
331		Reinforced Concrete Bridge Railing	Bridge Rail	368	0	356	12	0
510		Wearing Surface	Wearing Surfaces	4,741	4,061	0	680	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110144

Inspection Date: 09/19/2024

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	154 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	2600 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	15 Square Feet
3314	Steel Open Girder/Beam	Corrosion	43 Feet
3314	Steel Open Girder/Beam	Distortion	35 Feet
3348	Reinforced Concrete Column	Efflorescence/Rust Staining	5 Feet
3348	Reinforced Concrete Column	Delamination/Spall	1 Feet
3348	Reinforced Concrete Column	Exposed Rebar	3 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	4 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	2 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	19 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	2 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	3 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	29 Feet
3310	Pourable Joint Seal	Seal Damage	52 Feet
3334	Movable Bearing	Corrosion	16 Each
3334	Fixed Bearing	Corrosion	13 Each
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	6 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	362 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	79 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	601 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	56 Square Feet

Element Structure Maintenance Quantities

Structure Number: 11	tructure Number: <u>110144</u> Inspection Date <u>09/19/2024</u>										
Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity			
Beam	3314	Maintenance Steel Superstructure Components	63	910	13.000	50.000	45.000	802.000			
Beam	3342	Clean and Paint Steel	16	8890	16.000	0.000	0.000	8874.000			
Bearing Device	3334	Bridge Bearing	16	20	0.000	16.000	4.000	0.000			
Bearing Device	3334	Bridge Bearing	13	20	0.000	13.000	7.000	0.000			
Bearing Device	3342	Clean and Paint Steel	20	20	19.000	1.000	0.000	0.000			
Bearing Device	3342	Clean and Paint Steel	20	20	15.000	5.000	0.000	0.000			
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	368	368	0.000	12.000	356.000	0.000			
Deck	3326	Maintenance of Concrete Deck	2769	6261	0.000	2.000	2752.000	3507.000			
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	52	81	52.000	0.000	6.000	23.000			
Wearing Surfaces	2816	Asphalt Surface Repair	680	4741	0.000	680.000	0.000	4061.000			
Abutments	3350	Maintenance of Concrete Wings and Wall	2	72	0.000	2.000	15.000	55.000			
Caps	3348	Maintenance of Concrete Substructure	53	160	0.000	47.000	57.000	56.000			
Footing	3348	Maintenance of Concrete Substructure	0	18	0.000	0.000	0.000	18.000			
Piles and Columns	3344	Maintenance To Timber Substructure	0	14	0.000	0.000	0.000	14.000			
Piles and Columns	3348	Maintenance of Concrete Substructure	13	9	0.000	8.000	1.000	0.000			

Priority Actions Request

Structure Num	nber 110144		
Span2			
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
	Distortion	2	Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 AT THE POINT OF IMPACT LOCATED 17 FOOT 2 INCH FROM BENT 2 THE BOTTOM FLANGE IS BENT UPWARD ON THE WEST SIDE. THIS IS 2 FOOR LONG X 2 INCH HIGH X 9 INCH ACROSS. THERE IS A 6.5 INCH LONG X UP TO 1/4 INCH DEEP X 5 INCH ACROSS GOUGE IN THE CENTER OF THE BENT BOTTOM FLANGE ON THE WEST SIDE. AT THE SAME LOCATION ON THE EAST SIDE THE BOTTOM FLANGE IS BENT DOWNWARD UP TO A 1/4 INCH OVER A 20 INCH LENGTH. (PAR)
4	Distortion	13	Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 IS OUT OF PLUMB UP TO 5 DEGREES EASTWARD AT POINT OF IMPACT WHICH IS 17 FOOT 2 INCH FROM BENT 2. IT IS OUT OF PLUMB FOR A TOTAL OF 15 FEET, 10 FOOT NORTH OF THE POINT OF IMPACT AND 5 FOOT TO THE SOUTH. (PAR)





Element Condition and Maintenance Data

Structure N	Number: <u>110</u>	144						In	spection Da	ate: 09/19/2024
Spar	n 1			Deck						
Rein	forced Co	ncrete I	Deck							
Elem Num 12	nent iber	Reinforce	Element Name		Total Qty 1 213	CS1 Qty 813	CS2 Qty 400	CS3 Qty	CS4 Qty	nuare Feet
		Remote			1,210	010	400	0	Maiat	
Number	Defect	Туре		Defect Description			CS	CS Qty	Qty	
12 	Cracking (RO Other) General Com	C and	throughout undersid inch x full width) and	e of deck, transverse o map cracks (hairline)	cracks (up t at random	o 1/64	2	400	400	Square Feet
•										
Spar	n 1			Beam 1						
Plate	e Girder									
Elem	nent		Floment Nome		Total	CS1	CS2	CS3	CS4	
107	ider	Steel Op	en Girder/Beam		35	Qty 24	Qty 11	Oty 0	Qty 0 Fe	eet
515		Steel Pro	tective Coating		340	339	0	0	1 S	quare Feet
Element	t Defect	Туре		Defect Description			CS	CS Qty	Maint Otv	
107	Corrosion		at bent 1, painted ov	ver pitting: web (up to 1	I/8 inch dee	эр х	2	11		Feet
515	Effectivenes Protective C	s (Steel oatings)	corrosion with section	ch) with corrosion read on loss	tivating		4	1	1	Square Feet
Ģ	General Com	ments								
Spar Plate	n 1 e Girder			Beam 2						
Elem	nent				Total	CS1	CS2	CS3	CS4	
Num 107	iber	Steel Op	en Girder/Beam		Qty 35	Qty 34	Qty 0	Qty 0	Qty 1 Fe	eet
515		Steel Pro	tective Coating		340	339	0	0	1 S	quare Feet
Element	t Defect	Туре		Defect Description			CS	CS Qtv	Maint	
	Corrosion	<u>, , , , , , , , , , , , , , , , , , , </u>	(PAR) at bent 1, pai adjacent to end diap 10 inch x 3.5 inch) w	nted over section loss/ ohragm (5/16 inch aver vith corrosion reactivati	pitting: web age remain) ling x	4	1	Qiy 1	Feet
_ 515	Effectivenes Protective C	s (Steel oatings)	corrosion with section	on loss			4	1	1	Square Feet
G	General Com	ments								
Spar	n 1			Beam 3						
Plate	e Girder									
Elem Num	nent iber	_	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Op	en Girder/Beam		35	34	0	0	1 Fe	eet _
515		Steel Pro	tective Coating		340	340	0	0	0 S	quare Feet
Element Number	Defect	Туре		Defect Description			CS	CS Qty	Maint Qtv	
107	Corrosion		(PAR) at bent 1, pai inch average remair	nted over section loss/ hing x 11 inch x 3.5 inc	pitting: web h)	o (1/4	4	1	1	Feet

Spa	n 1			Beam 4						
Plat	e Girder									
Eler Nur	nent nber	Stool Opo	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	oot
515		Steel Prot	ective Coating		340	339	0	0	1 5	quare Feet
510					010				Malat	quarer out
Elemen Numbe	r Defect T	уре		Defect Descripti	on		CS	CS Qty	Maint Qty	
107	Corrosion		at bent 1, corrosion to end diaphragm (2 inch)	n with section loss/p 7/16 inch average r	itting: web adjac emaining x 10 ir	ent ich x	3	1	1	Feet
515	Effectiveness Protective Coa	(Steel atings)	corrosion with sect	ion loss			4	1	1	Square Feet
	General Comm	nents								
Spa	n 1			Beam 5						
Plat	e Girder									
Eler	nent		Element Name		Total	CS1	CS2	CS3	CS4	
107		Steel Ope	n Girder/Beam		35	34	0	0	1 F	eet
515	:	Steel Prot	ective Coating		340	339	0	0	1 S	quare Feet
Elemen	t , Defect T	vpe		Defect Descripti	on		CS	CS Qty	Maint	
	Corrosion		(PAR) at bent 1, pa web (7/16 inch ave web (1/2 inch avera corrosion reactivati	inted over section I rage remaining x 1 age remaining x 8 fo ng	oss/pitting: uppe 1 inch x 8 inch); pot x 2 inch) with	er lower 1	4	1	Gry 1	Feet
515	Effectiveness Protective Coa	(Steel atings)	corrosion with sect	ion loss			4	1	1	Square Feet
	General Comm	nents								
Spa	n 1			Left Bridge Ra	il					
Con	crete Railin	g								
Eler	nent		Element Name		Total Qtv	CS1 Qtv	CS2 Qtv	CS3 Qtv	CS4 Qtv	
331		Reinforce	d Concrete Bridge R	Railing	36	0	36	0	0 F	eet
Elemen Numbe	t r Defect T	уре		Defect Descripti	on		CS	CS Qty	Maint Qtv	
331	Delamination/	Spall	along the length of secure agregate a	the rail and sidewa	lk, scaling with		2	32	32	Feet
331	Delamination/	Spall	UP TO 6 INCH X 3		DEEP SPALL W	ІТН	2	4	4	Feet
	General Comm	nents								

Inspection Date: 09/19/2024 Structure Number: 110144 Span 1 **Right Bridge Rail Concrete Railing** CS1 Qty Element Total CS2 CS3 CS4 Number Element Name Qty Qty Qty Qty 331 Reinforced Concrete Bridge Railing 36 0 36 0 0 Feet Element Maint Defect Type **Defect Description** CS CS Qty Number Qty Delamination/Spall along the length of the rail and sidewalk, scaling with 2 31 31 Feet 331 secure agreggate at random Delamination/Spall UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH 2 5 5 Feet 331 EXPOSED REBAR AT RANDOM THROUGHOUT **General Comments** Span 1 Near Bearing 1 **Fixed Bearing**

Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	t r Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
313	Corrosion	corrosion with section loss (up to 7	I/8 inch loss)		3	1	Ē	1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
-	General Comments							

Spa	ın 1	Far Bearing	1					
Мол	able Bearing							
Elei Nur	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	nt Pr Defect Type	Defect Descri	iption		CS	CS Qty	Maint Qty	
311	Corrosion	surface rust/rust scale			2	1		Each
515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale			4	1		1 Square Feet
	General Comments							

Span 1		1	Near Bearing 2						
Fixed Be	earing								
Element Number		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	g		1	0	1	0	0	Each
515	Steel Protect	ive Coating		1	0	0	1	0	Square Feet
Element Number	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
313 Corro	osion su	rface rust				2	1		Each

Effectiveness (Steel Protective Coatings) 515 surface rust

General Comments

3

Spa	an 1			Far Bearing 2						
Мо	vable Bearir	ng								
Ele	ment				Total	CS1	CS2	CS3	CS4	
Nu	mber	Maurahla	Element Name		Qty	Qty	Qty	Qty	Qty	F ach
311		wovable	Bearing		1	0	1	0	0	Each
515		Steel Pro	tective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	nt er Defect T	Гуре		Defect Description			CS	CS Qty	Maint Qty	
311	Corrosion		surface rust/rust sca	ale			2	1	-	Each
515	Effectiveness Protective Co	(Steel atings)	surface rust/rust sc	ale			4	1	1	Square Feet
	General Comn	nents								
Spa	an 1			Near Bearing 3						
Fixe	ed Bearing									
Ele	ment				Total	CS1	CS2	CS3	CS4	
Nur	mber	-	Element Name		Qty	Qty	Qty	Qty	Qty	
313		Fixed Bea	aring		1	0	1	0	0	Each
515		Steel Pro	tective Coating		1	0	0	1	0	Square Feet
Elemer	nt Defect T	Гуре		Defect Description			CS	CS Qty	Maint	
	Corrosion		surface rust				2	1	Qty	Each
515	Effectiveness Protective Co	(Steel atings)	surface rust				3	1	1	Square Feet
	General Comn	nents								
Sac	n 1			For Booring 2						
Spa	an 1 			Far Bearing 3						
Mov	vable Bearir	ng								
Ele	ment				Total	CS1	CS2	CS3	CS4	
NUI 311	nper	Movable	Element Name		Qty 1	Qty 0	Qty 1	Qty	Qty 0	Fach
515		Steel Pro	tective Coating		1	0	0	0	1	Square Feet
Elemen	.					-	-	-	Maint	•
Numbe	Pr Defect T	Гуре		Defect Description			CS	CS Qty	Qty	
311	Corrosion		corrosion with section	on loss (less than 1/16	inch loss)		2	1	,	Each
515	Effectiveness Protective Co	(Steel atings)	corrosion with section	on loss			4	1	1	Square Feet
	<u> </u>									

Span	1
Fixed	Rearing

TIXC	eu beanng							
Eler Nur	ment nber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixe	d Bearing		1	0	1	0	0 Each
515	Stee	I Protective Coating		1	0	0	1	0 Square Feet
Elemen Numbe	nt Pr Defect Type		Defect Description			CS	CS Qty	Maint Qty
313	Corrosion	surface rust				2	1	Each
515	Effectiveness (Ste Protective Coating	el surface rust s)				3	1	1 Square Feet
	Concernel Community	-						

Spa	n 1	Far Beari	ng 4					
Мол	able Bearing							
Eler Nur	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	t r Defect Type	Defect De	scription		CS	CS Qty	Maint Qty	
311	Corrosion	corrosion with section loss (up t	o 1/16 inch loss)		3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1	Square Feet
	General Comments							

Spa	an 1		1	Near Bearing 5						
Fixe	ed Bearing									
Ele Nur	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	aring		1	0	0	1	0	Each
515		Steel Pro	tective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	nt er Defect	Туре		Defect Description			CS	CS Qty	Maint Qty	
313	Corrosion		corrosion with sectio	n loss (up to 1/8 inch l	oss)		3	1		1 Each
515	Effectivenes Protective C	s (Steel oatings)	corrosion with sectio	n loss			4	1		1 Square Feet
	General Com	ments								

Far Bearing 5

Movable Bearing

Span 1

	- - • • • • • • • • • •								
Element Number		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing		1	0	0	1	0 E	ach
515	Steel Pr	otective Coating		1	0	0	0	1 S	quare Feet
Element Number	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
311 Corr	osion	corrosion with section	on loss (up to 1/16 inch)			3	1	1	Each

Effectiveness (Steel Protective Coatings) 515

General Comments

corrosion with section loss

4

Sp	Span 1 Wearing Surface								
As	phalt Wearing Surf	ace							
El N 510	ement umber) Wearing	Element Name Surface	Total Qty 919	CS1 Qty 815	CS2 Qty 0	CS3 Qty 104	CS4 Qty 0 S	quare Feet	
Elem	ent Der Defect Type	Defect Description	Defect Description			CS Qty	Maint Qty		
510Crack (Wearing Surface)over end bent 1, transverse cracks (up to 1/8 inch x full roadway width) with edge spalling (2 foot x 6 inch x 1.5 inch deep)					3	26	26	Square Feet	
510 Crack (Wearing Surface) throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random					3	78	78	Square Feet	
	General Comments								
Sp	oan 2	Deck							
Re	einforced Concrete	Deck							
EI	ement	Element Name	Total	CS1	CS2	CS3	CS4		
12	Number Element Name Qty 12 Reinforced Concrete Deck 1.803				1.11.11	1.11.11	UTV		
Element Defect Type Defect Description CS CS Oty						2	Qty 0 S	quare Feet	
Elem Numb	Reinforc ent ber Defect Type	ed Concrete Deck Defect Description	1,803	749	1,052 CS	2 CS Qty	0 S Maint Qty	quare Feet	
Elemo Numb	Reinforc ent Defect Type Delamination/Spall	Defect Description (PAR) 2 FOOT X 1 FOOT X 3/4 INCH D EXPOSED REBAR BAY 1 ADJACENT FOOT FROM BENT 2	EEP SPALL V TO BEAM 1 15	749 VITH	CS 3	CS Qty 2	Maint Qty 2	quare Feet Square Feet	
Elema Numb	Reinford ber Defect Type Delamination/Spall Exposed Rebar	Defect Description (PAR) 2 FOOT X 1 FOOT X 3/4 INCH D EXPOSED REBAR BAY 1 ADJACENT FOOT FROM BENT 2 (PAR) bays 1 and 4 end diaphragm ove spalls/delaminations (3 foot x 8 inch x 1 exposed rusted rebar (approximately 25	EEP SPALL V TO BEAM 1 15 r bent 2, inch deep) wit percent loss)	viTH	1,052 CS 3	CS Qty 2	Maint Qty 2	quare Feet Square Feet Square Feet	
Elemo Numb 12 12	Reinford ent Defect Type Delamination/Spall Exposed Rebar Cracking (RC and Other)	Defect Description (PAR) 2 FOOT X 1 FOOT X 3/4 INCH D EXPOSED REBAR BAY 1 ADJACENT FOOT FROM BENT 2 (PAR) bays 1 and 4 end diaphragm ove spalls/delaminations (3 foot x 8 inch x 1 exposed rusted rebar (approximately 25 SPAN 2 BOTTOM OF DECK HAS SCA CRACKING UP TO 1/64 INCH	TERED MAP	viTH	1,052 CS 3 3 2	2 CS Qty 2 1,000	0 S Maint Qty 2 6 1,000	quare Feet Square Feet Square Feet Square Feet	
Elemo Numb 12 12 12 12 12	Reinford ent Defect Type Delamination/Spall Exposed Rebar Cracking (RC and Other) Delamination/Spall	Defect Description (PAR) 2 FOOT X 1 FOOT X 3/4 INCH D EXPOSED REBAR BAY 1 ADJACENT FOOT FROM BENT 2 (PAR) bays 1 and 4 end diaphragm ove spalls/delaminations (3 foot x 8 inch x 1 exposed rusted rebar (approximately 25 SPAN 2 BOTTOM OF DECK HAS SCA CRACKING UP TO 1/64 INCH MULTIPLE AREAS OF HONEYCOMBIN AT RANDOM THROUGHOUT.	TERED MAP	viTH 5 h	1,052 CS 3 3 2 2 2	2 CS Qty 2 1,000 50	0 S Maint Qty 2 6 1,000 50	quare Feet Square Feet Square Feet Square Feet Square Feet	
Elemo Numb 12 12 12 12 12 12 12 12	Reinford ber Defect Type Delamination/Spall Exposed Rebar Cracking (RC and Other) Delamination/Spall Delamination/Spall	Defect Description (PAR) 2 FOOT X 1 FOOT X 3/4 INCH D EXPOSED REBAR BAY 1 ADJACENT FOOT FROM BENT 2 (PAR) bays 1 and 4 end diaphragm ove spalls/delaminations (3 foot x 8 inch x 1 exposed rusted rebar (approximately 25 SPAN 2 BOTTOM OF DECK HAS SCA CRACKING UP TO 1/64 INCH MULTIPLE AREAS OF HONEYCOMBIN AT RANDOM THROUGHOUT. SCATTERED POPOUTS IN BOTTOM I SIDE OF TOP FLANGE OF BEAM 1 UF	TERED MAP NG IN BAYS 1 DECK AT LEF	vitt vitt h & 4 r EEP	1,052 CS 3 3 2 2 2 2	2 CS Qty 2 1,000 50 2	0 S Maint Qty 2 6 1,000 50 2	quare Feet Square Feet Square Feet Square Feet Square Feet Square Feet	

515	Steel Protective Coating		516	512	0	0	4 Maint	Square Feet
Element Number 107	Element Name Steel Open Girder/Beam		Total Qty 53	CS1 Qty 29	CS2 Qty 3	CS3 Qty 21	CS4 Qty 0	Feet
Plate Gi	rder							
Snan 2		Room 1						

Structure	e Number: <u>110144</u>			Inspe	ection Da	ate: <u>09/19/202</u> 4
107	Distortion	SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 AT THE POINT OF IMPACT LOCATED 17 FOOT 2 INCH FROM BENT 2 THE BOTTOM FLANGE IS BENT UPWARD ON THE WEST SIDE. THIS IS 2 FOOR LONG X 2 INCH HIGH X 9 INCH ACROSS. THERE IS A 6.5 INCH LONG X UP TO 1/4 INCH DEEP X 5 INCH ACROSS GOUGE IN THE CENTER OF THE BENT BOTTOM FLANGE ON THE WEST SIDE. AT THE SAME LOCATION ON THE EAST SIDE THE BOTTOM FLANGE IS BENT DOWNWARD UP TO A 1/4 INCH OVER A 20 INCH LENGTH. (PAR)	4	2	2	Feet
107	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating	3	1	1	Feet
107	Distortion	POINT OF IMPACT TO BEAM 1 AT 24 FOOT 8 INCH FROM BENT 1 FOR A LENGTH OF 15 FOOT. BEAM 1 IS SWEPT EASTWARD FOR 1 INCH FOR A LENGTH OF 20 FOOT. SCATTERED SCRAPES TO LEFT SIDE OF BOTTOM WEB AND SCATTERED SCRAPES TO BOTTOM FLANGE. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 14 FOOT 7 INCH FROM INTERIOR. BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 20 FOOT 9 INCH FROM BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP.	3	20	20	Feet
107	Distortion	SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 IS OUT OF PLUMB UP TO 5 DEGREES EASTWARD AT POINT OF IMPACT WHICH IS 17 FOOT 2 INCH FROM BENT 2. IT IS OUT OF PLUMB FOR A TOTAL OF 15 FEET, 10 FOOT NORTH OF THE POINT OF IMPACT AND 5 FOOT TO THE SOUTH. (PAR)	3	13	13	Feet
107	Corrosion	at bent 1, painted over pitting: web (up to 1/8 inch deep x 3 foot x up to 17 inch); bottom flange (up to 1/16 inch deep x 3 foot) with corrosion reactivating	2	3		Feet
107	Distortion	(combined with other notes 2023) Previous impact to beam (beam sweeps 1 inch eastward over travel lanes)	1			Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	4	4	Square Feet
	General Comments					

Spa	an 2		Beam 2						
Plat	te Girder								
Eler Nur 107	ment mber	Steel Ope	Element Name n Girder/Beam	Total Qty 53	CS1 Qty 46	CS2 Qty 5	CS3 Qty 0	CS4 Qty 2	Feet
515		Steel Prote	ective Coating	516	516	0	0	0	Square Feet
Elemer Numbe	nt Pr Defect	Туре	Defect Descrip	otion		CS	CS Qty	Maint Qty	
] 107	Corrosion		(PAR) at bent 1, painted over sectior adjacent to end diaphragm (3/8 inch inch x 2 inch)	n loss/pitting: web average remainir	o ng x 9	4	1		1 Feet
_ 107	Corrosion		(PAR) at bent 2, painted over sectior flange (0.73 inch average remaining adjacent to end diaphragm (3/8 inch 10 inch x 6 inch)	n loss/pitting: bott x 3 inch); web average remainir	om ng x	4	1		1 Feet
107	Distortion		SCATTERED SCRAPES TO BOTTO THROUGHOUT BEAM 2	DM FLANGE		2	5		Feet
	General Com	ments							

Structure Number: 110	144				Ins	spection Date: <u>09/19/2024</u>	<u>1</u>
Span 2	Beam 3						
Plate Girder							
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	46	5	0	2 Feet	
515	Steel Protective Coating	516	516	0	0	0 Square Feet	
Element Number Defect	Type Defect Descrip	tion		CS	CS Qty	Maint Qty	
107 Corrosion	(PAR) at bent 1, painted over section adjacent to end diaphragm (3/8 inch inch x 8 inch); bottom flange, pitting (2 foot); web, pitting (up to 1/16 inch c full height)	h loss/pitting: web average remainir (up to 1/16 inch d deep x 2 foot x up	ng x 2 eep x o to	4	2	2 Feet	
107 Damage	SCATTERED SCRAPES TO BOTTO RANDOM	OM FLANGE AT		2	5	Feet	
General Com	ments						
Span 2	Beam 4						
Plate Girder							
Element Number 107	Element Name Steel Open Girder/Beam	Total Qty 53	CS1 Qty 46	CS2 Qty 5	CS3 Qty 2	CS4 Qty 0 Feet	
515	Steel Protective Coating	516	515	0	0	1 Square Feet	
Element Number Defect	Type Defect Descrip	tion		CS	CS Qty	Maint Qty	
107 Corrosion	at bent 1, painted over section loss/p end diaphragm (1/2 inch average rer inch)	itting: web adjace naining x 6 inch x	ent 2	3	1	1 Feet	
107 Corrosion	at bent 2, painted over section loss/p	itting: bottom flar	nge	3	1	1 Feet	

		(0.70 inch average remaining x 1.5 inch); web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 2 inch) with corrosion reactivating	-		
107	Distortion	SCATTERED SCRAPES TO LEFT SIDE OF WEB. SCATTERED SCRAPES TO BOTTOM FLANGE	2	5	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet
	Conoral Commonte				

Span 2		B	eam 5							
Plate Girder										
Element Number 107	Steel Or	Element Name		Total Qty 53	CS1 Qty 35	CS2 Qty	CS3 Qty 10	CS4 Qty	Feet	
515	Steel Pro	otective Coating		516	513	0	0	3	Square Feet	
Element Defender Defe	ect Type	I (PAR) at bent 1, paint flange (0.72 inch aver	Defect Description ed over section loss/p age remaining x 2.5 fo	itting: bot	tom (7/16	CS 4	CS Qty 3	Maint Qty	3 Feet	
		inch average remainin reactivating	ng x 2.5 foot x 18 inch) with corr	OSION					

Structure	Number: <u>110144</u>					Ins	spection Da	ate: <u>09/19/2024</u>
107	L 107 Corrosion at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 foot x 24 inch); bottom flange, painted over section loss (0.70 inch average remaining x 10 inch); bottom flange 10 inch from bearing, painted over pitting (up to 1/16 inch pitting x 10 foot)						10	Feet
107	Distortion	SCATTERED SCRAPES TO BOTTOM FLA	ERED SCRAPES TO BOTTOM FLANGE					Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	3	3	Square Feet
	General Comments							
Spa	an 2	Bent 1 Expansion	Joint					
Sta	ndard Joint							
Ele	ment	Flement Name	Total Otv	CS1 Otv	CS2	CS3 Otv	CS4 Otv	
301	Pourable	e Joint Seal	27	15	0	0	12 Fe	eet
Elemer	nt Defect Type	Defect Description			CS	CS Qty	Maint	
301	Seal Damage	at missing asphalt locations, seal deteriorat	ed/torn/mis	sing	4	12	12	Feet
301	Debris Impaction	at missing asphalt locations, debris accumu	ulation (up to	o 32	2			Feet
	General Comments							
	COVERED BY AS	PHALT WEARING SURFACE.						
Spa	an 2	Left Bridge Rail						
Cor	ncrete Railing							
Ele	ment	Element Name	Total Otv	CS1	CS2	CS3	CS4	
331	Reinforc	ed Concrete Bridge Railing	53	0	53	0	0 Fe	et
Elemer	nt Defect Type	Defect Description			CS	CS Qtv	Maint	
331	Delamination/Spall	along the length of the rail and sidewalk, so	aling with		2	45	45	Feet
331	Delamination/Spall	UP TO 12 INCH X 3 INCH X 1/2 INCH DEE EXPOSED REBAR AT RANDOM THROUG	EP SPALL V SHOUT	VITH	2	8	8	Feet
	General Comments							
Spa	an 2	Right Bridge Rail						
Cor	ncrete Railing							
Ele Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforc	ed Concrete Bridge Railing	53	0	53	0	0 Fe	eet

Elemen Number	t r Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	45	45	Feet
331	Delamination/Spall	UP TO 12 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	8	8	Feet

Span 2

	— ·	
Livod	Rooring	0
FIXED	Deanno	
	Douinig	U

Eler Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed	Bearing	1	0	0	1	0 E	lach
515	Steel	Protective Coating	1	0	0	0	1 S	Square Feet
Elemer Numbe	nt er Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
313	Corrosion	corrosion with section loss (up to	1/8 inch loss)		3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1	Square Feet

General Comments

Spa	an 2		Far Beari	ng 1					
Mov	vable Bearin	g							
Ele Nur	ment mber	Elemer	t Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable Bearing		1	0	0	1	0	Each
515		Steel Protective Coat	ing	1	0	0	0	1	Square Feet
Elemer Numbe	nt er Defect T	уре	Defect Des	scription		CS	CS Qty	Maint Qty	
311	Corrosion	corrosion v	vith section loss (up to	o 1/16 inch loss)		3	1		1 Each
515	Effectiveness Protective Coa	(Steel corrosion v atings)	vith section loss			4	1		1 Square Feet
	General Comm	nents							

Spa	an 2		1	lear Bearing 2						
Fixe	ed Bearing									
Elei Nur	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	aring		1	0	0	1	0	Each
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	nt er Defect	Туре		Defect Description			CS	CS Qty	Maint Qty	
313	Corrosion		corrosion with sectio	n loss (up to 1/16 inch	loss)		3	1	1	I Each
515	Effectiveness Protective Co	s (Steel batings)	corrosion with sectio	n loss			4	1	1	Square Feet
	Concerned Course									

General Comments

Far Bearing 2

Movable Bearing

Span 2

Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movabl	e Bearing	1	0	0	1	0 Each	
515	Steel P	rotective Coating	1	0	0	0	1 Square Feet	
Element Number	Defect Type	Defect De	escription		CS	CS Qty	Maint Qty	
311 Corr	osion	corrosion with section loss (up	to 1/16 inch loss)		3	1	1 Each	

Effectiveness (Steel Protective Coatings) 515

General Comments

corrosion with section loss

Spa	in 2			Near Bearing 3						
Fixe	ed Bearing									
Eler Nur 313	ment nber	Fixed Be	Element Name aring		Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Each	
515		Steel Pro	tective Coating		1	0	0	0	1 Square Fee	t
-									Maint	
Numbe	Defect T	уре		Defect Description	า		CS	CS Qty	Qty	
313	Corrosion		corrosion with section	on loss (up to 1/16 in	ich loss)		3	1	1 Each	
515	Effectiveness Protective Coa	(Steel atings)	corrosion with section	on loss			4	1	1 Square F	eet
	General Comm	nents								
0	0									
Spa	in 2			Far Bearing 3						
Mo۱	able Bearin	ıg								
Elei	ment		Element Name		Total	CS1	CS2	CS3	CS4	
311	libei	Movable	Bearing		1	0	0	1	0 Each	
515		Steel Pro	tective Coating		1	0	0	0	1 Square Fee	t
Elemen	nt Datast T							00.01	Maint	
Numbe	er Defect I	уре	corrosion with soction	Defect Description) h loss)		2		Qty 1 Each	
	CONOSION		conosion with sectio		11 1055)		5		I Lacii	
515	Effectiveness Protective Coa	(Steel atings)	corrosion with section	on loss			4	1	1 Square F	eet
	General Comm	nents								_
Spa	in 2			Near Bearing 4						
Fixe	ed Bearing									
Elei	ment				Total	CS1	CS2	CS3	CS4	
Nur 313	nber	Fixed Be	aring		Qty 1	Qty 0	Qty 0	Qty 1	Qty 0 Each	
515		Steel Pro	tective Coating		1	0	0	0	1 Square Fee	t
Elemen	nt Defect T	уре		Defect Description	า		CS	CS Qtv	Maint	
	Corrosion		corrosion with section	on loss (up to 1/16 in	ich loss)		3	1	1 Each	
515	Effectiveness Protective Coa	(Steel atings)	corrosion with section	on loss			4	1	1 Square F	eet
	General Com	onte								_

1

4

Structure Number: 110144

Movable Bearing

Span 2

1010 1	able bearing							
Eler Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	0	1	0	Each
515	Steel Pr	rotective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	nt Pr Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
311	Corrosion	corrosion with section loss (up to	o 3/16 inch deep)		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	0							

General Comments

Spa	Span 2		Near Bearing 5							
Fixe	ed Bearing									
Elei Nur	ment nber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	aring		1	0	0	1	0	Each
515		Steel Pro	tective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	er Defect	Туре		Defect Description			CS	CS Qty	Maint Qty	
313	Corrosion		corrosion with secti	on loss (up to 1/8 inch)			3	1		1 Each
515	Effectiveness Protective Co	s (Steel batings)	corrosion with secti	on loss			4	1		1 Square Feet
	General Com	ments								

Spa	in 2	Far Bearin	ng 5					
Мол	able Bearing							
Eler Nur	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Fach
311	IVIOVADI	e Bearing	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	nt Pr Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
311	Corrosion	corrosion with section loss (up to	o 1/8 inch loss)		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	0							

General Comments

Span 2

Wearing Surface

Asphalt Wearing Surface

Elen Num 510	nent hber Wearing	Element Name Surface	Total Qty 1,365	CS1 Qty 1,088	CS2 Qty 0	CS3 Qty 277	CS4 Qty 0 Square Feet
Element	t Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	throughout asphalt wearing surface, longitudinal cracks (up to 1/8 inch x	transverse and 10 foot) at random	ı	3	225	225 Square Feet

Structure Number: <u>110144</u> Inspection Date: <u>09/19/202</u>						
510	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 1, broken asphalt (full roadway width x 8 inch) with potholes (up to 32 inch x 5 inch x full depth)	3	26	26	Square Feet
510	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 2, broken asphalt (full roadway width x 8 inch) with potholes (up to 10 foot x 9 inch x full depth)	3	26	26	Square Feet

Spa	n 3	Deck						
Rein	nforced Conc	rete Deck						
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Re	inforced Concrete Deck	1,803	603	1,200	0	0 S	quare Feet
Element	t n Defect Typ	e Defec	t Description		CS	CS Qty	Maint Qty	
12	Exposed Rebar	(PAR) bay 4 end diaphragn spalls/delamination (full wic exposed rusted rebar (appr	n over bent 2, Ith x 1 foot x 1 inch deep roximately 25 percent lo	p) with ss)	3		6	Square Feet
12	Cracking (RC an Other)	d throughout underside of de inch x full width) and map c	ck, transverse cracks (u rracks (hairline) at rando	ip to 1/64 om	2	1,100	1,100	Square Feet
12	Delamination/Sp	all MULTIPLE AREAS OF HO AT RANDOM THROUGHC	NEYCOMBING IN BAY OUT.	S1&4	2	100	100	Square Feet
(General Commer	nts						
Spai	n 3	Beam	1					
Plate	e Girder							
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Ste	eel Open Girder/Beam	53	50	0	3	0 F	eet
515	Ste	eel Protective Coating	516	514	0	0	2 S	quare Feet

Elemen Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
] 107	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating	3	2	2	Feet
] 107	Corrosion	at bent 3, painted over section loss/pitting: bottom flange (0.67 inch average remaining x 3 inch); web adjacent to end diaphragm, painted over pitting (up to $1/8$ inch deep x 14 inch x 12 inch)	3	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

General Comments

Span 3

Beam 2

Plate	Girder										
Elem Numl	ent ber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
107		Steel Oper	n Girder/Beam		53	51	1	0	1	Feet	
515		Steel Prote	ective Coating		516	515	0	0	1	Square Feet	
Element Number	Defect	Гуре		Defect Description			CS	CS Qty	Maint Qty		•
107	Corrosion (PAR) at bent 2, painted over section los adjacent to end diaphragm (3/8 inch ave		ted over section loss/p aragm (3/8 inch averag	itting: web e remainii	o ng x 9	4	1		1 Feet		

inch x 2 inch)

Structure	Number: <u>110144</u>	Inspec	Inspection Date: 09/19/2024		
107	Corrosion	at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1	Feet
515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1 Square Feet
	General Comments				

Spa	n 3			Beam 3							
Plate	e Girder										
Elen Num 107	nent nber	Steel Ope	Element Name n Girder/Beam		Total Qty 53	CS1 Qty 51	CS2 Qty 0	CS3 Qty 2	CS4 Qty 0	Feet	
515		Steel Prot	ective Coating		516	516	0	0	0	Square Feet	
Elemen Number	t Defect	Туре		Defect Description			CS	CS Qty	Maint Qty		
107	Corrosion		at bent 2, painted o end diaphragm (9/1 inch)	ver section loss/pitting 6 inch average remai	g: web adjace ning x 9 inch	ent to x 1	3	1		1 Feet	
107	Corrosion		at bent 3, painted o end diaphragm (1/2 inch)	ver section loss/pitting inch average remain	g: web adjace ing x 12 inch	ent to x 1	3	1		1 Feet	

Span 3	Beam 4						
Plate Girder							
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	51	1	0	1 Feet	
515	Steel Protective Coating	516	516	0	0	0 Square Feet	
Element Number Defect	Type Defect Descri	ption		CS	CS Qty	Maint Qty	
107 Corrosion	(PAR) at bent 2, painted over section adjacent to end diaphragm (3/8 inch 10 inch x 1 inch)	n loss/pitting: web a average remainir	ng x	4	1	1 Feet	
107 Corrosion	at bent 3, painted over section loss/ end diaphragm (1/2 inch average re inch)	pitting: web adjace maining x 10 inch	ent to x 2	2	1	Feet	
General Com	ments						
Span 3	Beam 5						
Plate Girder							
Element		Total	CS1	CS2	CS3	CS4	

Numb	er	Element Name	Qty	Qty	Qty	Qty	Qty
107	Steel	Open Girder/Beam	53	42	1	10	0 Feet
515	Steel	Protective Coating	516	516	0	0	0 Square Feet
Element Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty
107 C	Corrosion	at bent 3, painted over pitting/sec (0.75 inch average remaining x 1 from bearing, painted over pitting 10 foot); web, painted over pitting foot x 12 inch)	tion loss: bottom flan foot); bottom flange (up to 1/16 inch dee (up to 1/8 inch dee	nge 1 foot ep x p x 10	3	10	10 Feet

Structure Number: 110144

107 Corrosion

at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 4 inch)

Inspection Date: 09/19/2024

Feet

1

2

Spa	an 3		Bent 2 Expansio	n Joint					
Sta	ndard Joint								
Eler Nur 301	ment mber Po	Element Name burable Joint Seal		Total Qty 27	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 27 Fe	eet
Flomor)t							Maint	
Numbe	Pr Defect Typ	0e	Defect Description			CS	CS Qty	Qty	
301	Seal Damage	at missing asphalt lo (up to full depth)	ocations, seal deterior	rated/torn/mis	sing	4	27	27	Feet
301	Debris Impaction	at missing asphalt lo length)	ocations, debris accur	mulation (up to	o full	2			Feet
	General Comme COVERED	nts BY ASPHALT WEARING SU	IRFACE.						
Spa	an 3		Left Bridge Rail						
Cor	ncrete Railing								
Elei	ment	Element Name		Total Otv	CS1 Otv	CS2 Otv	CS3 Otv	CS4 Otv	
331	Re	einforced Concrete Bridge Ra	ailing	53	0	49	4	0 F	eet
Elemer	nt pri-						00.01	Maint	
Numbe	er Defect Typ		Defect Description			CS	CS Qty	Qty	Foot
331	Delamination/Sp	EXPOSED REBAR	AT RANDOM THRO			ა	4	4	reet
331	Delamination/Sp	all along the length of t secure agreggate at	he rail and sidewalk, t random	scaling with		2	49	49	Feet
	General Comme	nts							
Spa	an 3		Right Bridge Rai	il					
Cor	ncrete Railing								
Elei	ment			Total	CS1	CS2	CS3	CS4	
Nur 331	mber Ré	Element Name	ailina	Qty 53	Qty	Qty 53	Qty	Qty	aat
			2		0		v		
Elemen Numbe	nt Defect Typ	0e	Defect Description			CS	CS Qty	Maint Qty	
331	Delamination/Sp	along the length of t	he rail and sidewalk,	scaling with		2	45	45	Feet
331	Delamination/Sp	all UP TO 6 INCH X 3 I EXPOSED REBAR	INCH X 1/4 INCH DE AT RANDOM THROI	EP SPALL W UGHOUT	ITH	2	8	8	Feet
	General Comme	nts							
Spa	an 3		Near Bearing 1						
Fixe	ed Bearing								
Elei	ment			Total	CS1	CS2	CS3	CS4	
Nur	mber	Element Name		Qty	Qty	Qty	Qty	Qty	
313	Fi	ked Bearing		1	0	1	0	0 E	ach _
515	St	eel Protective Coating		1	0	0	0	1 S	quare Feet
Elemer Numbe	nt Pr Defect Typ	pe	Defect Description			CS	CS Qty	Maint Qty	

Structure I	Number: <u>110144</u>			Inspection	n Da	ate: <u>09/19/2024</u>
313	Corrosion	rust scale	2	1		Each
515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

Spa	in 3		Far Bearing 1						
Мо	able Bearing	I							
Eler Nur	ment nber	Element Name	To	tal Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	N	ovable Bearing		1	0	0	1	0	Each
515	S	teel Protective Coating		1	0	0	0	1 \$	Square Feet
Elemen Numbe	nt Pr Defect Ty	pe	Defect Description			CS	CS Qty	Maint Qty	
311	Corrosion	corrosion with secti	on loss (up to 1/16 inch loss)		3	1	1	Each
515	Effectiveness (S Protective Coat	Steel corrosion with secti ings)	on loss			4	1	1	Square Feet
	General Comme	ents							

Spa	an 3	Near Bear	ring 2					
Fixe	ed Bearing							
Elei Nur 313	ment nber Fixed	Element Name Bearing	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0	Each
515	Steel	Protective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	nt Pr Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
313	Corrosion	corrosion with section loss (up to	o 1/16 inch loss)		3	1	-	1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	Conorol Commonto							

Spa	in 3	Far Bea	ring 2					
Мол	able Bearing							
Eler Nur	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movabl	e Bearing	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	nt Pr Defect Type	Defect D	Description		CS	CS Qty	Maint Qty	
311	Corrosion	corrosion with section loss (up	to 1/8 inch loss)		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	General Comments							

Structure	Number:	<u>110144</u>
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Span 3

Fixe	ed Bearing							
Elei Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed	Bearing	1	0	0	1	0	Each
515	Steel	Protective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	nt Pr Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
313	Corrosion	corrosion with section loss (up to	1/16 inch loss)		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	<u> </u>							

General Comments

Spa	in 3	F	ar Bearing 3						
Mov	able Bearing								
Eler Nun	ment nber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Μον	vable Bearing		1	0	0	1	0	Each
515	Stee	el Protective Coating		1	0	0	0	1	Square Feet
Elemen Numbe	t r Defect Type	9	Defect Description			CS	CS Qty	Maint Qty	
311	Corrosion	corrosion with section	loss (up to 1/8 inch los	s)		3	1		I Each
515	Effectiveness (Ste Protective Coating	eel corrosion with section	loss			4	1		Square Feet
	General Comment	ts							

Spa	an 3	Near Bear	ing 4					
Fix	ed Bearing							
Ele Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	1 0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemei Numbe	nt er Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
313	Corrosion	corrosion with section loss (up to	o 1/8 inch loss)		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	General Comments							

General Comments

Far Bearing 4

Movable Bearing

Span 3

	0							
Element Number	ement Imber Element Name			CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movab	le Bearing	1	0	0	1	0	Each
515	Steel F	Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
311 Corr	osion	corrosion with section loss (up to	loss (up to 1/8 inch deep)		3	1		1 Each

515 Effectiveness (Steel Protective Coatings)

General Comments

corrosion with section loss

Span 3 Near Bearing 5	5									
Fixed Bearing										
Element	Total	CS1	CS2	CS3	CS4					
Number Element Name	Qty	Qty	Qty	Qty	Qty					
313 Fixed Bearing	1	0	0	1	0 Each					
515 Steel Protective Coating	1	0	0	0	1 Square Feet					
Element Defect Type Defect Description	on		CS	CS Otv	Maint	-				
Number Detect Type corrosion with section loss (up to 1/16	inch loss)		3	1 UC Q()	Qty 1 Fach					
			0	,						
515 Effectiveness (Steel corrosion with section loss			4	1	1 Square Feet					
General Comments										
Span 3 Far Bearing 5										
Mayahla Desting										
Movable Bearing										
Element Number Element Name	Total	CS1	CS2	CS3	CS4					
311 Movable Bearing	1	0	0	1 1	0 Each					
515 Steel Protective Coating	1	0	0	0	1 Square Feet					
					•	-				
Number Defect Type Defect Description	on		CS	CS Qty	Maint Qty					
□ 311 Corrosion corrosion with section loss (up to 1/8 in	nch loss)		3	1	1 Each					
□ 515 Effectiveness (Steel corrosion with section loss			4	1	1 Square Feet					
Protective Coatings)										
General Comments										
Span 3 Wearing Surfa	се									
Asphalt Wearing Surface										
Element	Total	CS1	CS2	CS3	CS4					
Number Element Name	Qty	Qty	Qty	Qty	Qty					
510 Wearing Surface	1,365	1,213	0	152	0 Square Feet					
Element Defect Type Defect Description	on		CS	CS Otv	Maint	•				
□ 510 Crack (Wearing throughout asphalt wearing surface, trace)	ansverse and		3	125	Qty 125 Square Feet					
Surface) Indiginal cracks (up to 1/8 inch x 10	foot) at randoi	m	Ū	.20						
510 Patched Area/Pothole (PAR) over bent 3, broken asphalt (full (Wearing Surface) inch) with potholes (up to 5 foot x 5 inc	roadway width	n x 8	3	27	27 Square Feet					
General Comments										
Span 4 Deck										
Deinforced Concrete Deak										
Element Number Element Name	Total Otv	CS1 Otv	CS2 Otv	CS3 Otv	CS4 Otv					
12 Reinforced Concrete Deck	1,442	1,342	100	0	0 Square Feet					
Flement					Maint	-				
Number Defect Type Defect Description	on		CS	CS Qty	Qty					

4

Structure	Structure Number: <u>110144</u>						spection Date: 09/19/2024
12	Exposed Rebar	(PAR) bay 2 end diaphragm over b spalls/delaminations (3 foot x 12 in exposed rusted rebar (approximate	eent 2, ch x 1 inch deep) w ely 25 percent loss)	ith	3		3 Square Feet
12	Cracking (RC and Other)	d throughout underside of deck, mult map cracking	tiple areas of hairline	e	2	100	100 Square Feet
	General Commen	ts					
Spa	ın 4	Beam 1					
Plat	e Girder						
Eler	ment		Total	CS1	CS2	CS3	CS4
Nur 107	nber Ste	el Open Girder/Beam	Qty 41	Qty 39	Qty 2	Qty 0	Qty 0 Feet
515	Ste	el Protective Coating	406	406	0	0	0 Square Feet
Elemen	nt Defect Typ	e Defect Descr	ription		CS	CS Qty	Maint
107	Corrosion	at bent 3, painted over pitting: web foot x 12 inch); bottom flange (up to foot)	p x 2 2	2	2	Feet	
107	Corrosion	(not found 2023) web at far end Ea loss, up to 10 inch high x 12 inch lo 1/2 inch	etal ning	1		Feet	
	General Commen	ts					
0		Deere 0					
Spa	in 4 So Girdor	Beam 2					
Flat	ment		Total	CS1	<u> </u>	653	CS4
Nur	nber	Element Name	Qty	Qty	Qty	Qty	Qty 0 Foot
515	Ste	el Protective Coating	406	405	0	0	1 Square Feet
Elemen	it Defect Tur	- Defect Dece				00.044	Maint
Numbe	Corrosion	e Derect Descr at bent 3, web adjacent to end diar	ohragm, rust scale (10	2	US Qty	Qty Feet
□ □ 515	Effectiveness (St	inch) eel rust scale			4	1	1 Square Feet
	Protective Coatin General Commen	gs) ts					·
Spa	in 4	Beam 3					
Plat	e Girder						
Eler Nur	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Ste	el Open Girder/Beam	41	40	0	0	1 Feet
515	Ste	el Protective Coating	406	406	0	0	0 Square Feet
Elemen Numbe	nt Defect Typ	e Defect Descr	iption		CS	CS Qty	Maint Qty
107	Corrosion	(PAR) at bent 3, painted over secti adjacent to end diaphragm (5/16 in 10 inch x 2 inch)	on loss/pitting: web ich average remaini	ng x	4	1	1 Feet
	General Commen	ts					

Structure Number: 110144 Inspection Date: 09/19/2024 Beam 4 Span 4 Plate Girder Element Total CS1 CS2 CS3 CS4 Element Name Number Qty Qty Qty Qty Qty 107 Steel Open Girder/Beam 41 40 0 0 Feet 1 515 Steel Protective Coating 406 406 0 0 0 Square Feet Element Maint Defect Type **Defect Description** CS CS Qty Number Qty 107 [Corrosion at bent 3, painted over section loss/pitting: web adjacent to 3 1 1 Feet end diaphragm (7/16 inch average remaining x 12 inch x 1 inch) General Comments Span 4 Beam 5 Plate Girder Element CS1 CS2 CS3 CS4 Total Qty Number Element Name Qty Qty Qty Qty 107 Steel Open Girder/Beam 41 36 5 0 0 Feet 515 Steel Protective Coating 406 406 0 0 0 Square Feet Element Maint Defect Type **Defect Description** CS CS Qty Number Qty 107 Corrosion at bent 3, painted over pitting: bottom flange (up to 1/8 inch 2 5 Feet deep x 3 foot); web (up to 1/8 inch deep x 5 foot x 15 inch) General Comments Span 4 Bent 3 Expansion Joint Standard Joint CS1 CS4 Element Total CS2 CS3 Element Name Number Qty Qty Qty Qty Qty 301 Pourable Joint Seal 27 8 6 0 13 Feet Element Maint CS Qty Defect Type **Defect Description** CS Number Qty Seal Damage at missing asphalt locations, seal deteriorated/torn/missing 4 13 Feet 301 13 (up to 5 foot) **Debris Impaction** at missing asphalt locations, debris accumulation (up to 5 2 6 Feet 301 foot) General Comments COVERED BY ASPHALT WEARING SURFACE. Span 4 Left Bridge Rail **Concrete Railing** Element CS4 Total CS1 CS2 CS3 Number Element Name Qty Qty Qty Qty Qty 331 Reinforced Concrete Bridge Railing 42 0 42 0 0 Feet

Elemen Number	t Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure agreggate at random	2	36	36 F	eet
331	Exposed Rebar	UP TO 6 INCH X 3 INCH X 1/4 INCH SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	6	6 F	eet

Structure Number: <u>110144</u>

Right Bridge Rail

Span 4

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Concrate	Dailina
001101010	

Eler Nun 331	nent nber Reinforc	Element Name ed Concrete Bridge Railing	Total Qty 42	CS1 Qty 0	CS2 Qty 34	CS3 Qty 8	CS4 Qty 0 F	eet
Elemen Numbe	t r Defect Type	Defect Description			CS	CS Qty	Maint Qty	
331	Delamination/Spall	UP TO 18 INCH X 3 INCH X 1/2 INCH DE EXPOSED REBAR AT RANDOM THROU	EEP SPALL JGHOUT	WITH	3	8	8	Feet
331	Delamination/Spall	along the length of the rail and sidewalk, s secure agreggate at random	scaling with		2	34	34	Feet

General Comments

Spa	an 4			Near Bearing 1						
Mo	vable Bea	ring								
Ele Nu	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	311 Movable		Bearing		1	0	0	1	0	Each
515	Steel Protective Coating				1	0	0	0	1	Square Feet
Elemei Numbe	Element Defect Type			Defect Description			CS	CS Qty	Maint Qty	
311	Corrosion		corrosion with section	on loss (up to 1/8 inch	loss)		3	1		1 Each
515	Effectivene Protective	fectiveness (Steel corrosion with secti rotective Coatings)		on loss			4	1		1 Square Feet
	General Co	mments								

Span 4	4
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Far Bearing 1

Eler Nur	ment nber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing			1	0	0	1	0	Each
515	515 Steel Pro		ective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	nent Defect Type Defect Desc			l		CS	CS Qty	Maint Qty	
313	Corrosion		corrosion with section loss (up to 1/8 inch loss)			3	1		1 Each
515	Effectiveness (Steel corrosion with section loss Protective Coatings)					4	1		1 Square Feet

General Comments

Near Bearing 2

Movable Bearing

Span 4

	5								
Element Number	Element Number Element Name			Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing		1	0	1	0	0 Each	
515	Steel Protective Coating			1	0	0	1	0 Square Feet	
Element Number	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
311 Corro	osion	surface rust				2	1	Each	

Effectiveness (Steel Protective Coatings) 515 surface rust

General Comments

3

Spa	n 4			Far Bearing 2						
Fixe	ed Bearing									
Eler Nur 313 515	ment nber	Fixed Bea	Element Name aring tective Coating		Total Qty 1	CS1 Qty 0 0	CS2 Qty 1 0	CS3 Qty 0 1	CS4 Qty 0	Each Square Feet
Elemen Numbe	nt Pr Defect T	уре		Defect Description			CS	CS Qty	Maint Qty	·
313	Corrosion		surface rust				2	1		Each
515	Effectiveness Protective Coa	(Steel atings)	surface rust				3	1	1	Square Feet
	General Comm	nents								
Spa	in 4			Near Bearing 3						
Мол	able Bearin	g								
Eler Nur 311	ment nber	Movable	Element Name Bearing		Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0	Each
515		Steel Pro	tective Coating		1	0	0	0	1	Square Feet
Elemen	nt Pr Defect T	уре		Defect Description			CS	CS Qty	Maint Otv	
311	Corrosion		corrosion with section	on loss (up to 1/16 inch	loss)		3	1	1	Each
515	Effectiveness Protective Coa	(Steel atings)	corrosion with section	on loss			4	1	1	Square Feet
	General Comm	nents								
Spa	in 4			Far Bearing 3						
Fixe	ed Bearing									
Eler Nur 313	ment nber	Fixed Bo	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Each
515		Steel Pro	tective Coating		1	0	0	0	1	Square Feet
Elemer	nt								Maint	
Numbe	Pr Defect T	уре	surface rust/rust so	Defect Description			CS 2	CS Qty	Qty	Fach
515	Effectiveness	(Steel	surface rust/rust sca	ale			4	1	1	Square Feet
	General Comm	atings) nents								

Structure Number: 110144

Span 4 Movable Bearing

NIO Y	vabic bearing							
Ele	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	nt er Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
311	Corrosion	corrosion with section loss (up to	o 1/16 inch loss)		3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	0 10							

Spa	an 4			Far Bearing 4						
Fixe	ed Bearing									
Elei Nur	ment nber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	aring		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	0	1	0	Square Feet
Elemer Numbe	nt er Defect T	Гуре		Defect Description			CS	CS Qty	Maint Qty	
313	Corrosion		surface rust				2	1		Each
515	Effectiveness Protective Co	(Steel atings)	surface rust				3	1		1 Square Feet
	General Comr	nents								

Spa	an 4			Near Bearing 5						
Мо	vable Be	aring								
Ele Nu	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing		1	0	0	1	0	Each
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
Elemer	nt er Def	ect Type		Defect Description			CS	CS Qty	Maint Qty	
311	Corrosior	า	corrosion with secti	on loss (up to 1/8 inch)			3	1		1 Each
515	Effectiver Protective	ness (Steel e Coatings)	corrosion with secti	on loss			4	1		1 Square Feet
	General C	comments								

Span 4		Far Bear	ing 5					
Fixed Bea	ring							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearir	ıg	1	0	0	1	0	Each
515	Steel Protect	tive Coating	1	0	0	0	1	Square Feet
Element Number D	Defect Type	Defect D	escription		CS	CS Qty	Maint Qty	
313 Corros	ion co	prrosion with section loss (up	to 1/8 inch loss)		3	1		1 Each

515 Effectiveness (Steel Protective Coatings)

General Comments

corrosion with section loss

4

Spa	n 4	Wearing Su	urface				
Asp	halt Wearing Surf	ace					
Elen Nun 510	nent nber Wearing	Element Name Surface	Total Qty 1,092	CS1 Qty 945	CS2 Qty 0	CS3 Qty 147	CS4 Qty 0 Square Feet
Elemen Number	t r Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	over end bent 2, transverse cracks roadway width) with edge spalling deep)	s (up to 1/8 inch x fu (12 inch x 4 inch x 1	ll I inch	3	27	27 Square Feet
510	Crack (Wearing Surface) General Comments	throughout asphalt wearing surfac longitudinal cracks (up to 1/8 inch	e, transverse and x 10 foot) at random	1	3	120	120 Square Feet
	-						
End	Bent 1	Abutment					
Reir	nforced Concrete	Abutment					
Elen Nun 215	nent nber Reinforc	Element Name ed Concrete Abutment	Total Qty 36	CS1 Qty 29	CS2 Qty 5	CS3 Qty 2	CS4 Qty 0 Feet
Elemen	t Defect Type	Defect Desc	ription		CS	CS Qty	Maint Otv
215	Cracking (RC and	at beams 1 and 3 penetrations, dia	agonal cracks, up to	12	3	2	2 Feet
215	Cracking (RC and Other)	along the length of the abutment, v inch x full height) at random	vertical cracks (up to	0 1/64	2	5	Feet
_	General Comments						
End	Bent 1	Cap 1					
Reir	nforced Concrete	Pier Cap					
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforc	ed Concrete Pier Cap	35	29	6	0	0 Feet
Elemen Number	t Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	along length, multiple vertical crac inch	ks, up to 10 inch x 1	/32	2	6	Feet
	General Comments						
Ben	t 1	Cap 1					
Reir	nforced Concrete	Pier Cap					
Elen	nent		Total	CS1	CS2	CS3	CS4
Nun 234	nber Reinforc	Element Name ed Concrete Pier Cap	Qty 30	Qty 0	Qty 15	Qty 15	Qty 0 Feet
Elemen Number	t Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty

Structure N	Number: <u>110144</u>			Inspec	ction Da	ate: <u>09/19/2024</u>
234	Exposed Rebar	(PAR) south face between bays 2-4, multiple spalls/delaminations (5 foot x 16 inch x 1 inch deep) some with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch) with rust stains	3	15	15	Feet
234	Patched Area	beam 3 cap step up, north face, failed patch (3 foot x 8 inch x 1 inch deep)	3		3	Feet
234	Cracking (RC and Other)	CAP HAS SCATTERED VERTICAL CRACKS UP TO 1/32 INCH X FULL HEIGHT, LONGITUDINAL CRACKS UP TO 1/32 INCH X 1 FOOT AND HAIRLINE MAP CRACKS ON ALL FACES, AT RANDOM THROUGHOUT.	2	12		Feet
234	Delamination/Spall	South face below beam 1, delamination, 22 inch x 13 inch	2	2	2	Feet
234	Patched Area	8 INCH DIAMETER PATCH, IN WEST END OF CAP.	2	1		Feet
234	Cracking (RC and Other)	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP NORTH FACE BELOW BEAM 3. FAILED PATCH WITH CRACKS, UP TO 1/16 INCH, AND RUST STAIN	1			Feet
234	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) 6 INCH X 10 INCH X 1 INCH SPALL WITH EXPOSED REBAR, NORTH FACE, UNDER BAY 3.	1			Feet
234	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP BAY 2 NORTH FACE. HAS A CRACK/SPALL AND DELAMINATED AREA WITH REBAR VISIBLE. AREA IS: 11 INCH X 14 INCH X 3/4 INCH DEEP.	1			Feet
234	Patched Area	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP NORTH FACE HAS SCATTERED PATCHED AREAS WITH SOME MAP CRACKING AND RUST STAINS. PATCHED APPEAR TO BE SOUND	1			Feet

Ber	nt 1	Pile 1						
Rei	nforced Concrete	Column						
Ele Nu 205	ment mber Reinfor	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Each	
Elemer Numbe	nt er Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	below cap, all corners, delaminations cracks (up to 1/8 inch); along column and vertical cracks (up to 1/32 x full	s (9 inch x 4 foot) n, map cracks (hai height) at random	with rline)	3		1 Each	
205	Efflorescence/Rust Staining	(PAR) NORTHWEST CORNER HAS AREA THAT IS CRACKED (UP TO RUST STAINS AND DELAMINATED FACE IS: 12 INCH WIDE, AREA ON INCH WIDE X 9 FOOT HIGH.	S A FAILED PATC 1/16 INCH) WITH D. AREA ON NOR I WEST FACE IS:	HED RTH 10	3	1	1 Each	

Bent 1			Pile 2						
Reinford	ced Concrete	Column							
Element Number 205	Reinforc	Element Name ed Concrete Column		Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 E	Each
Element Number	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
205 Crad Othe	cking (RC and er)	below cap, all corne cracks (up to 1/8 in	ers, delaminations (1 foo ch)	vt x 3 foot) w	vith	3	1	1	Each

Ben	it 1	Pile 3							
Reir	nforced Concrete	Column							
Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
205	Reinford	ed Concrete Column	1	0	0	1	0 E	ach:	
Elemen Numbe	t r Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty		
205	Cracking (RC and Other)	west face, delamination (1 foot x 1/8 inch)	6.5 foot) with cracks (up to	3		1	Each	
205	Exposed Rebar	(PAR) north face, spall/delaminat inch deep) with exposed rusted re percent loss)	ion (2 foot x full heigh ebar (approximately 2	it x 2 5	3	1	1	Each	
205	Cracking (RC and Other)	UP TO 4 FOOT X 1/32 INCH VEI RANDOM THROUGHOUT.	RTICAL CRACKS, AT	-	2			Each	
-	General Comments								
Dam	10	Con 1							

Ben	τZ	Capit						
Rein	nforced Concrete	Pier Cap						
Elen Num 234	nent nber Reinfore	Element Name ced Concrete Pier Cap	Total Qty 30	CS1 Qty 7	CS2 Qty 15	CS3 Qty 8	CS4 Qty 0 Feet	
Element Number	t Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty	
234	Efflorescence/Rust Staining	(PAR) UP TO 7 FOOT X 12 INCH D HORIZONTAL CRACKS UP TO 1/1 STAINING, SOUTH AND NORTH F	ELAMINATIONS 6 INCH WITH RU ACES, UNDER B	WITH ST AY 3.	3	7	7 Feet	t
234	Exposed Rebar	(PAR) BENT 2 CAP WEST FACE B A SPALL AND DELAMINATED ARE X 1 INCH DEEP) WITH REBAR EXI (APPROXIMATELY 25 PERCENT L CRACKS (UP TO 1/16 INCH) WITH	OTTOM CORNEF EA (2.5 FOOT X 1 POSED .OSS) AND MAP RUST STAINS	R HAS FOOT	3	1	1 Feet	t
234	Cracking (RC and Other)	along the length of the cap, vertical of x full height) some extending into bo and map cracks (hairline) at random	cracks (up to 1/32 ttom face (full wid	inch th)	2	15	Feet	t

General Comments

Ber	nt 2	Pile 1						
Rei	nforced Concrete	Column						
Ele Nui	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	1	0	0	Each
Elemer Numbe	nt Pr Defect Type	Defect De	escription		CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	west face, map cracks (hairline) at random		2	1	-	Each
	Conorol Commonto							

Structure Number: 110144

Inspection Date: 09/19/2024

Bent 2

Reinforced Concrete Column

Ele Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfo	rced Concrete Column	1	0	0	1	0	Each
Elemer Numbe	nt er Defect Type	Defect Desc	cription		CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	northwest and southwest corners delamination (4.5 foot x 1 foot) wi	below cap, (3) th cracks (up to 1/16	inch)	3		1	I Each
205	Exposed Rebar	(PAR) west face at bottom, spall (deep) with exposed rusted rebar loss)	(2 foot x 8 inch x 1 inc (approximately 25 pe	ch rcent	3	1	1	I Each
205	Delamination/Spall	East face below cap, delamination	n, 32 inch x 11 inch		2		1	I Each

Pile 2

General Comments

Bent 2	2	Pile 3										
Reinfo	Reinforced Concrete Column											
Elemer Numbe	nt er	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty					
205	Reinforc	ed Concrete Column	1	0	0	1	0 Each					
Element Number	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty					
205 Ef St	fflorescence/Rust aining	(PAR) along column, vertical cracks foot) some with efflorescence and r cracks (hairline) at random	s (up to 1/8 inch x 6 ust stains and map	6.5	3	1	1 Each					

General Comments

Enc	Bent 2	Abutment						
Rei	nforced Concrete	Abutment						
Ele Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfor	ced Concrete Abutment	36	26	10	0	0 F	eet
Elemer Numbe	nt er Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	END BENT 2 ABUTMENT THROU VERTICAL CRACKS, UP TO 2 FO	UGHOUT ALL BAYS, OOT X 1/64 INCH		2	10		Feet
	0							

General Comments

End B	ent 2		Cap 1									
Reinfo	Reinforced Concrete Pier Cap											
Elemer Numbe 234	nt er Reinforce	Element Name ed Concrete Pier Cap)	Total Qty 35	CS1 Qty 20	CS2 Qty 15	CS3 Qty 0	CS4 Qty 0	Feet			
Element Number	Defect Type		Defect Description			CS	CS Qty	Maint Qty				
234 C 0	racking (RC and ther)	END BENT 2 CAP THROUGHOUT AL 1/32 INCH	HAS SCATTERED CRA LL BAYS, UP TO TO FU	ACKS LL HEIGH	тх	2	15	·	Feet			

Structure Number: 110144

Bent 3

Reinforced Concrete Pier Cap

Ele Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	30	0	6	24	0 Fe	et
Elemer Numbe	nt er Defect Type	Defect Description			CS	CS Qty	Maint Qty	
234	Efflorescence/Rust Staining	(PAR) both faces and underside, multiple foot x 18 inch) with cracks (up to 1/8 inch stains	both faces and underside, multiple delaminations (15 18 inch) with cracks (up to 1/8 inch) some with rust				22	Feet
234	Exposed Rebar	(PAR) 16 INCH X FULL HEIGHT X 2 INC WITH EXPOSED REINFORCING WITH 25 PERCENT LOSS, WEST FACE, IN B PEDESTAL.	CH DEEP SP APPROXIM/ EAM 4	ALL ATELY	3	1	1	Feet
234	Exposed Rebar	(PAR) 6 INCH X FULL WIDTH X 12 INC SPALL WITH EXPOSED REBAR WITH 25 PERCENT LOSS, WEST FACE, IN B PEDESTAL.	H X 2 INCH I APPROXIMA EAM 3	DEEP ATELY	3	1	1	Feet
234	Cracking (RC and Other)	along the length of the cap, vertical crack x full height) and map cracks (hairline) at	s (up to 1/32 random	2 inch	2	5		Feet
234	Exposed Rebar	5 INCH DIAMETER X 1/2 INCH SPALL V REBAR NORTH FACE UNDER BEAM 2	WITH EXPOS	SED	2	1	1	Feet
	General Comments							

Pile 1

Cap 1

Reinforced Concrete Column

ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Column	1	0	0	1	0	Each
nt Pr Defect Type	Defect De	escription		CS	CS Qty	Maint Qty	
Efflorescence/Rust Staining	(PAR) WEST FACE HAS AN A (UP TO 1/16 INCH) AND DELA RUST STAINS VISIBLE AREA	REA THAT IS CRACKE MINATED WITH SOM NIS: 16 INCH X 10 FOC	ED E DT.	3	1	1	I Each
Cracking (RC and Other)	along column, vertical cracks (and map cracks (hairline)	up to 1/32 inch x full hei	ght)	2			Each
	ment mber Reinfor ^{ht} Defect Type Efflorescence/Rust Staining Cracking (RC and Other)	ment mber Element Name Reinforced Concrete Column nt Defect Type Defect Def	ment Total mber Element Name Qty Reinforced Concrete Column 1 nt Defect Type Defect Description Efflorescence/Rust (PAR) WEST FACE HAS AN AREA THAT IS CRACKE Staining (UP TO 1/16 INCH) AND DELAMINATED WITH SOMI RUST STAINS VISIBLE AREA IS: 16 INCH X 10 FOC Cracking (RC and Other) along column, vertical cracks (up to 1/32 inch x full hei	ment Total CS1 mber Element Name Qty Qty Qty Qty Qty Qty Reinforced Concrete Column 1 0 Integer Defect Description 1 Efflorescence/Rust (PAR) WEST FACE HAS AN AREA THAT IS CRACKED (UP TO 1/16 INCH) AND DELAMINATED WITH SOME RUST STAINS VISIBLE AREA IS: 16 INCH X 10 FOOT. Cracking (RC and Other) along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)	ment Total CS1 CS2 Qty <t< td=""><td>ment mberElement Name Reinforced Concrete ColumnTotal Qty Qt</br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td><td>ment mberElement Name Reinforced Concrete ColumnTotal QtyDefect Type Efflorescence/Rust Staining (UP TO 1/16 INCH) AND DELAMINATED WITH IS CRACKED RUST STAINS VISIBLE AREA IS: 16 INCH X 10 FOOT.31Cracking (RC and Other)along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)2</td></t<>	ment mberElement Name Reinforced Concrete ColumnTotal Qty 	ment mberElement Name Reinforced Concrete ColumnTotal QtyDefect Type Efflorescence/Rust Staining (UP TO 1/16 INCH) AND DELAMINATED WITH IS CRACKED RUST STAINS VISIBLE AREA IS: 16 INCH X 10 FOOT.31Cracking (RC and Other)along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)2

General Comments

Bent 3

Bent 3

Pile 2

Reinforced Concrete Column

Eler Nur	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 Each	
Elemen Numbe	t r Defect Type	Defect Descriptio	n		CS	CS Qty	Maint Qty	
205	Efflorescence/Rust Staining	(PAR) east face below cap, delaminatio with cracks (up to 1/8 inch) with rust sta	n (full width x ins	5 foot)	3	1	1 Each	
205	Efflorescence/Rust Staining	(PAR) west face at bottom, spall/delami inch x 1/2 inch) with exposed rusted reb to 1/32 inch) with rust stains	nation (3 foot a	x 21 (up	3		1 Each	
205	Cracking (RC and Other)	along column, vertical cracks (up to 1/3 and map cracks (hairline)	2 inch x full he	ight)	2		Each	_
	Conoral Commonte							

Structure Number:	<u>110144</u>
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Bent 3

Reinforced Concrete Column

Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205 Reinforced		ced Concrete Column	1	0	0	1	0 E	Each
Element Number	t Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
] 205	Exposed Rebar	(PAR) west face, spall/delamina 2 inch deep) with exposed ruster percent loss) and cracks (up to 7 efflorescence	tion (20 inch x full heig d rebar (approximately 1/8 inch) some with	ght x 7 25	3	1	1	Each
205	Cracking (RC and Other)	along column, vertical cracks (up and map cracks (hairline)	p to 1/32 inch x full hei	ight)	2			Each

Pile 3

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1803
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	53
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Bent 1 Expansion Joint	Standard Joint	Pourable Joint Seal	27
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1365
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 5	Movable Bearing	Movable Bearing	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110144

Inspection Date: 09/19/2024

National Bridge Inventory Items

Item	Grade Scale	Grade	
Item 58: Deck	0 - 9 , N	6	N
Item 59: Superstructure	0 - 9 , N	4	lt
Item 60: Substructure	0 - 9 , N	5	
Item 61: Channel and Channel Protection	0 - 9 , N	Ν	S
Item 62: Culvert	0 - 9 , N	Ν	
Item 71: Waterway Adequacy	0 - 9 , N	Ν	
Item 72: Approach Roadway Alignment	0 - 9 , N	8]

Note: tems 58,59,60,62 reflect this nspection only.

For overall NBI coding grade, ee cover sheet.

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			
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation		Ν		
Drift	G, F, P, or C		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		
Superstructure Paint Code		В		

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	Y
Inspection Time	Hours	8
Traffic Control Time	Hours	8
Snooper Time	Hours	0
Ladder, Drone, or Camera Pole Used	YES/NO	Ν
Bucket Truck Used	YES/NO	Υ
Boat Used	YES/NO	Ν
Other Equipment Used	YES/NO	Y
Portion of Structure in > 3' of water	YES/NO	Ν

National Bridge and NC SMU Inspection Item Details

Structure Nu	mber: 110144			Inspection Date: 09/19/2024
Item	NCDOT Deck - Item 58	Grade 6	Maint Code	Qty. 0
Deta	ils GRADE TAKEN FROM 08/10/2023 REPORT			
Item	NCDOT Superstructure - Item 59	Grade 4	Maint Code	Qty. 0
Deta	IIS GRADE LOWED DUE TO 15 FOOT OF DISTORIO THIS LOCATION	ON TO Span 2 Beam 1 /	AND THE BEND TO	THE Bottom Flange AT
Item	NCDOT Substructure - Item 60	Grade 5	Maint Code	Qty. 0
Deta	ils GRADE TAKEN FROM 08/10/2023 REPORT			
Item	Priority Maintenance Issued	Grade Y	Maint Code	Qty. 0
Deta	ils (PAR) FOR BOW IN Span 2 Beam 1 AND BENT E	Bottom Flange AT SAME	LOCATION	
Item	Other Equipment Used	Grade Y	Maint Code	Qty. 0
Deta	ils Ultrasonic Machine, Climbing Vest			

Date: 09/19/2024

Condition Photos



County: BURKE

Date: 09/19/2024

Condition Photos



County: BURKE

Date: 09/19/2024

Condition Photos



Date: 09/19/2024

Condition Photos



Date: 09/19/2024

Condition Photos



Structure: 110144 County: BURKE Date: 09/19/2024 Condition Photos

Date: 09/19/2024



County: BURKE

Date: 09/19/2024

Condition Photos



County: BURKE

Date: 09/19/2024

Condition Photos



Date: 09/19/2024

Condition Photos







Structure Data Worksheet



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	35.330	33.167			
2	52.500	51.167			
3	52.500	51.167			
4	42.000	40.250			

Span: 2



Looking East

Route Number: 11000	400	Route Na	me: I	Reference Feature:	Н				
Minimum Vertical Clear									
Total Horizontal Clearance 42.150 feet Lateral Clearances: Left: 13.120 feet Right 10.470 feet									
Base Highway Network LRS Inventory Route, Sub Route Number 10040									
Milepost: 106.400	Number	umber of Lanes: 2 ADT: 22500 Year of ADT: 2015 Percentage of Trucks: 16							
✓ National Highway System									
Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic									

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3				\sim
Roadway	19.667ft Wide	2 Paved Lanes	Looking North	
Left Shoulder	7ft Wide	4ft Paved	3ft Unpaved	
Right Shoulder	6ft Wide	3.5ft Paved	2.5ft Unpaved	
Left Guardrail	7ft from road			
Right Guardrail	6ft from road			
MEASUREMENTS T	AKEN 125' FROM END BENT 1			
OACH ROADWAY		Description LOOKING NORTH		

Bridge Inspection Field Sketch

	Bri	dge	Insp	ect	tior	ר F	ielc	I S	ketc	h	
	Deels			24 2228	Datura	Deile			22 54		
	Deck	Width/Out to O	ut .	<u>34.333π</u>	Between				32.5ft		
	Clear			2611	Wearing	Surrace			ZIN		
	Media				Median	Height	Dia				
	Curb				Lett	8IN	Rig		0		
	Sidew					3.25ft	Rig	nt 3.25	π		
	Clear		to Median)		Lett	0:	Rig				
	Guard				Lett	9in 2 F A	Rig	nt 9in			
	Top o	of Rail to Deck/V	Vearing Surface	e	Left	3.5ft	Rig	ht 3.5ft			
	Bridge	e Rail Type			Left	Type 42	Rig	ht Type	e 42		
-			_								
	Measur	ements for Spar	n #	1	All Span	s Similar					
		nickness	1#	6 5in		verhand			4 167ft		
	Top of	Rail to Bottom c	of Beam (Avg)	7 167ft	Right	Overhand			4 167ft		
			n Dealli (Avg)	7.10/10	Right	overnang			4.10/10		
Be	am #	Ве	am Type		Width	Height	Spacing		From		
1	Plate	Girder			12in	35.68in	4.167ft	Left Edg	e of Deck		
2	Plate	Girder			10in	27in	6.5ft	Beam 1			
3	Plate	Girder			10in	27in	6.5ft	Beam 2			
4	Plate	Girder			10in	27in	6.5ft	Beam 3			
5	Plate	Girder			12in	35.68in	6.5ft	Beam 4			
Spans 2 & 3 Bear Spans 1 & 4 Bear	ms 1-5 ns 1 & 5	" at the edge " at the web	Span 1	. Beams 2	-4 0.6 0.7	3" at the 6" at the	eqde 25-3/4"	Spar	14 Beams 2-	4 	' at the edge ' at the web
Title TYPICAL SECTION		1			Descript LOOK	tion ING NOR	TH				
Structure No: 110144		Drawn By:	JCRODRIGUE	Z		Date:	8/10/202	23	Filename:	S00093000	0236.wes

E	Bri	dge Ins	р	ec	tio	on	Fi	eld	Ske	etc	h	
Caps # Name	Type		16	enath	Widt	h F	leiaht	Left Beam to	End of Ca	an Righ	t Beam t	o End of Can
1 Cap 1	Reinfo	rced Concrete Pier Cap	30	0ft 30in 30		0in 2ft			1.33ft			
Piles												
# Name		Type		Spacing	g	From			Height/D	iam. Wio	dth	Length
1 Pile 1		Reinforced Concrete Colu	imn Imn	4ft	Left End		id of Bent		30in	301	n	17.25ft
3 Pile 3		Reinforced Concrete Colu	ımn	mn 11ft P mn 11ft P			Pile 2			30i	n	17.25ft
				1					1	1000		
Title					Des	scriptic	on					
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Structure: 110144

County: BURKE

Date: 09/19/2024

Structure Photos



Looking East