NC DEPARTMENT OF TRANSPORTATION

NORTH CRIME

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

	Routine Element Inspection	- Contract
STRUCTURE NUMBER: 110106	SAP STRUCTURE NO: 0120106	FHWA STRUCTURE NO: 00000000230106
DIVISION: 13 COUNTY: BURKE		08/09/2023 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1168		MILE POST: 98.98
LOCATION: .1 MI.N.JCT.SR2112		
FEATURE INTERSECTED: 140		
LATITUDE: <u>35° 42' 54.97"</u>	LONGITUDE: 81° 45' 54.2"	
SUPERSTRUCTURE: _REINFORCED C	ONCRETE DECK GIRDERS	
SUBSTRUCTURE: E.BTS:RC CAPS/PP	C PILES;INT.BTS:RCP&BEAM	
SPANS: 5 SPANS. SEE SPAN PROF	TILE SHEET FOR SPAN DETAILS	
		CAL SCOUR PLAN OF ACTION
GRADES: (Inspector/NBI Coding) DECK	6/6 SUPERSTRUCTURE 5/5	SUBSTRUCTURE 6/6 CULVERT N/N
POSTED SV: Not Posted	POSTED TTS	T: Not Posted

OTHER SIGNS PRESENT: (2) advanced low clearance on I-40 Westbound



INSPECTED BY	SIGNATURE		ASSISTED BY	Hector Bonilla
Juan Rodriguez		Y		

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

11/01/2023

(1) STATE NAME NORTH CAROLINA BRIDGE	11	10106	SUFFICIENCY RATING		73
(8) STRUCTURE NUMBER (FEDERAL)	023	30106	STATUS =		
(5) INVENTORY ROUTE (ON/UNDER) ON	13101			SIFICATION	CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE	,	13 14400	(112) NBIS BRIDGE SYSTEM		Y
(6) FEATURE INTERSECTED 140	-	+++00	(104) HIGHWAY SYSTEM	Inventory Route not on NHS	
(7) FACILITY CARRIED SR1168			(26) FUNCTIONAL CLASS	Urban Collector	
(9) LOCATION .1 MI.N.JCT.SR2112			(100) STRAHNET HIGHWAY	Not a STRAHNET Route	
(11) MILEPOINT		99.0	(101) PARALLEL STRUCTURE	No parallel structure exists	
		0	(102) DIRECTION OF TRAFFIC	2-way traffic	
13) LRS INVENTORY ROUTE & SUBROUTE 16) LATITUDE 35° 42' 54.97" (17) LONGITUDE	81° 45'	54 2"	(103) TEMPORARY STRUCTURE		
98) BORDER BRIDGE STATE CODE PERCENT		04.2	(110) DESIGNATED NATIONAL NETWO	DRK - on national network for trucks	
99) BORDER BRIDGE STRUCTURE NUMBER			(20) TOLL	On Free Road	
			(21) MAINT -		
STRUCTURE TYPE AND MATERIAL STRUCTURE TYPE MAIN		ncrete	(22) OWNER -		
	am CODE	104	(37) HISTORICAL SIGNIFICANCE -		
44) STRUCTURE TYPE APPROACH		104			
TYPE	CODE		CC (58) DECK	ONDITION	CODI
	CODE	-			
		5			
	0005	0	(60) SUBSTRUCTURE		
107) DECK STRUCTURE TYPE	CODE	1	(61) CHANNEL & CHANNEL PROTECT	ION	
108)WEARING SURFACE/PROTECTIVE SYSTEM			(62) CULVERTS		
(A) TYPE OF WEARING SURFACE	CODE	6			COD
(B) TYPE OF MEMBRANE	CODE	0	(31) DESIGN LOAD	HS 15	
(C) TYPE OF DECK PROTECTION	CODE	0	(63) OPERATING RATING METHOD -	Load Factor	
AGE AND SERVICE			(64) OPERATING RATING -	HS-32	
27) YEAR BUILT		1956	(65) INVENTORY RATING METHOD -		
106) YEAR RECONSTRUCTED		0	(66) INVENTORY RATING	HS-19	
42) TYPE OF SERVICE ON -	Hig	hway	(70) BRIDGE POSTING	No Posting Required	
OFF - Highwa	ay CODE	11	(41) STRUCTURE OPEN, POSTED, OR	CLOSED	
28) LANES ON STRUCTURE 2 LANES UNDER STR	RUCTURE	4	DESCRIPTION	Open, no restriction	
29) AVERAGE DAILY TRAFFIC		2300	AP	PRAISAL	COD
30) YEAR OF ADT 2021 (109) TRUCK ADT P	РСТ	7	(67) STRUCTURAL EVALUATION		
9) BYPASS OR DETOUR LENGTH		4.0	(68) DECK GEOMETRY		
GEOMETRIC DATA			(69) UNDERCLEARANCES, VERT & HO	DRIZ	
48) LENGTH OF MAXIMUM SPAN		54.0	(71) WATERWAY ADEQUACY		
49) STRUCTURE LENGTH		228.0	(72) APPROACH ROADWAY ALIGNME	NT	
50) CURB OR SIDEWALK: LEFT 1.7 RIGHT 51) BRIDGE ROADWAY WIDTH, CURB TO CURB		1.7 28.0	(36) TRAFFIC SAFETY FEATURES		C
52) DECK WIDTH OUT TO OUT		20.0 33.5	(113) SCOUR CRITICAL BRIDGES		
32) APPROACH ROADWAY WITH (W/ SHOULDERS)		24.0	PROPOSED	IMPROVEMENTS	
33) BRIDGE MEDIAN No media	In CODE	0	(75) TYPE OF WORK	COD	DE
34) SKEW 22 (35) STRUCTURE FLARED		0	(76) LENGTH OF STRUCTURE IMPRO	VEMENT	
10) INVENTORY ROUTE MIN VERT CLEAR	:	999.9	(94) BRIDGE IMPROVEMENT COST		
47) INVENTORY ROUTE TOTAL HORIZ CLEAR 53) MIN VERT CLEAR OVER BRIDGE RDWY		28.0 999.9	(95) ROADWAY IMPROVEMENT COST		
54) MIN VERT UNDERCLEAR: REFERENCE		14.3	(96) TOTAL PROJECT COST		
55) MIN LAT UNDERCLEARANCE RT: REFERENCE	н	8.6	(97) YEAR OF IMPROVEMENT COST E	STIMATE	
56) MIN LAT UNDERCLEARANCE LT:		13.4			
			(114) FUTURE ADT 4,60	VEAR OF FUTURE ADT	2
18) NAVIGATION CONTROL -	CODE	N	(90) INSPECTION DATE	08/23 (91) FREQUENCY	
11) PIER PROTECTION	CODE		(92) CRITICAL FEATURE INSPECTION		TE
39) NAVIGATION VERTICAL CLEARANCE		0.0	A) FRACTURE CRIT DETAIL	A)	
116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		0.0	B) UNDERWATER INSP	B)	
40) NAVIGATION HORIZONTAL CLEARANCE			C) OTHER SPECIAL INSP	C)	
		0.0	OF CITIEN OF LOTAL INOF	0,	

		tical				ce affic				ce			See N	lote Be	low			F		
Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Tr	Total Horizontal Clearance	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
3	I 40 E	11000400	17.3	99.0	1	10040	11	2	16000	2015	40.1	Н	16.3	10.0	13.0	4		1		
3	I 40 E	11000400	100.0	99.0	1	10040	11	2	16000	2015	40.1	Н	100.0	10.0	13.0	4		1		
4	140W	11000400	100.0	99.0	1		11	2	16000	2015	41.1	н	100.0	8.6	13.4	3		1		
4	I 40 W	11000400	100.0	99.0	1		11	2	16000	2015	41.1	Н	100.0	8.6	13.4	3		1		
4	140W	11000400	14.9	99.0	1		11	2	16000	2015	41.1	н	14.3	10.0	13.4	3		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

Span Length 34.000

Span Number 1

Skew 112.000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	68	Feet		
1	Asphalt Wearing Surface	Wearing Surface	952	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	136	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1071	Square Feet		
Span Nu	ımber <u>2</u> Sp	an Length <u>34.000</u>		Sk	iew 112.000	

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	952	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	68	Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Standard Joint	Pourable Joint Seal	31	Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	136	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1071	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
Span Nu	mber <u>3</u> Sp	an Length <u>55.000</u>		Sk	ew 112.000	1

Number Quantity (Sq Ft) of Items Type of Component **Element Name** Quantity **Protective System Applied** 4 Reinforced Concrete Girder Reinforced Concrete Open 220 Feet Girder/Beam Legacy Red Lead Primer Systems with Various Topcoats 4 Fixed Bearing **Fixed Bearing** 4 Each 4 2 Concrete Railing Reinforced Concrete Bridge 110 Feet Railing Other Warning Signs 1 Other warning sign 1 Each

Superstructure Build Details

Span	Number <u>4</u> Sp	an Length <u>55.000</u>		ew 112.000		
1	Standard Joint	Pourable Joint Seal	31	Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	8
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1733	Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	1540	Square Feet		

Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
Reinforced Concrete Deck	Reinforced Concrete Deck	1733	Square Feet		
Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	6
Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	220	Feet		
Standard Joint	Pourable Joint Seal	31	Feet		
Concrete Railing	Reinforced Concrete Bridge Railing	110	Feet		
Asphalt Wearing Surface	Wearing Surface	1540	Square Feet		
Other warning sign	Other Warning Signs	3	Each		
Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
	Reinforced Concrete Deck Movable Bearing Reinforced Concrete Girder Standard Joint Concrete Railing Asphalt Wearing Surface Other warning sign	Reinforced Concrete DeckReinforced Concrete DeckMovable BearingMovable BearingReinforced Concrete GirderReinforced Concrete Open Girder/BeamStandard JointPourable Joint SealConcrete RailingReinforced Concrete Bridge RailingAsphalt Wearing SurfaceWearing SurfaceOther warning signOther Warning Signs	Reinforced Concrete DeckReinforced Concrete Deck1733Movable BearingMovable Bearing4Reinforced Concrete GirderReinforced Concrete Open Girder/Beam220Standard JointPourable Joint Seal31Concrete RailingReinforced Concrete Bridge Railing110Asphalt Wearing SurfaceWearing Surface1540Other warning signOther Warning Signs3	Reinforced Concrete DeckReinforced Concrete Deck1733Square FeetMovable BearingMovable Bearing4EachReinforced Concrete GirderReinforced Concrete Open Girder/Beam220FeetStandard JointPourable Joint Seal31FeetConcrete RailingReinforced Concrete Bridge Railing110FeetAsphalt Wearing SurfaceWearing Surface1540Square FeetOther warning signOther Warning Signs3Each	Reinforced Concrete DeckReinforced Concrete Deck1733Square FeetMovable BearingMovable Bearing4EachLegacy Red Lead Primer Systems with Various TopcoatsReinforced Concrete GirderReinforced Concrete Open Girder/Beam220FeetStandard JointPourable Joint Seal31FeetConcrete RailingReinforced Concrete Bridge Railing110FeetAsphalt Wearing SurfaceWearing Surface1540Square FeetOther warning signOther Warning Signs3EachLegacy Red Lead Primer

Span Number 5

Span Length 50.000

Skew 112.000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1400	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	100	Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	216	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1575	Square Feet		
1	Standard Joint	Pourable Joint Seal	31	Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4

Structure Element Scoring

Structure Number: 110106

Inspection Date 8/9/2023

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	7,183	7,183	0	0	0
110		Reinforced Concrete Open Girder/Beam	Beam	928	499	402	27	0
205		Reinforced Concrete Column	Piles and Columns	8	1	4	3	0
215		Reinforced Concrete Abutment	Abutments	90	90	0	0	0
220		Reinforced Concrete Pile Cap/Footing	Footing	33	33	0	0	0
226		Prestressed Concrete Pile	Piles and Columns	15	15	0	0	0
234		Reinforced Concrete Pier Cap	Caps	198	133	53	12	0
301		Pourable Joint Seal	Expansion Joints	124	0	0	0	124
311		Movable Bearing	Bearing Device	20	0	9	11	0
515	311	Steel Protective Coating	Bearing Device	26	4	0	4	18
313		Fixed Bearing	Bearing Device	20	1	9	10	0
515	313	Steel Protective Coating	Bearing Device	20	1	5	0	14
331		Reinforced Concrete Bridge Railing	Bridge Rail	456	453	3	0	0
510		Wearing Surface	Wearing Surfaces	6,384	5,986	17	381	0
603		Other Warning Signs	Ground Mounted Signs	4	4	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110106

Inspection Date: 08/09/2023

MMS Code	Element Name	Defect Name	Recommended Quantity
3306	Reinforced Concrete Open Girder/Beam	Patched Area	5 Feet
3306	Reinforced Concrete Open Girder/Beam	Delamination/Spall	26 Feet
3306	Reinforced Concrete Open Girder/Beam	Exposed Rebar	7 Feet
3306	Reinforced Concrete Open Girder/Beam	Cracking (RC and Other)	21 Feet
3348	Reinforced Concrete Column	Delamination/Spall	2 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	4 Each
3348	Reinforced Concrete Pier Cap	Exposed Rebar	3 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	13 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	1 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	6 Feet
3310	Pourable Joint Seal	Debris Impaction	118 Feet
3310	Pourable Joint Seal	Seal Adhesion	31 Feet
3310	Pourable Joint Seal	Seal Damage	93 Feet
3334	Movable Bearing	Corrosion	11 Each
3334	Fixed Bearing	Corrosion	10 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	3 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	85 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	311 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	41 Square Feet

Element Structure Maintenance Quantities

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	59	928	0.000	27.000	402.000	499.000
Bearing Device	3334	Bridge Bearing	11	20	0.000	11.000	9.000	0.000
Bearing Device	3334	Bridge Bearing	10	20	0.000	10.000	9.000	1.000
Bearing Device	3342	Clean and Paint Steel	22	26	18.000	4.000	0.000	4.000
Bearing Device	3342	Clean and Paint Steel	19	20	14.000	0.000	5.000	1.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	3	456	0.000	0.000	3.000	453.000
Deck	3326	Maintenance of Concrete Deck	0	7183	0.000	0.000	0.000	7183.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	242	124	124.000	0.000	0.000	0.000
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	0	4	0.000	0.000	0.000	4.000
Wearing Surfaces	2816	Asphalt Surface Repair	396	6384	0.000	381.000	17.000	5986.000
Abutments	3350	Maintenance of Concrete Wings and Wall	0	90	0.000	0.000	0.000	90.000
Caps	3348	Maintenance of Concrete Substructure	23	198	0.000	12.000	53.000	133.000
Footing	3348	Maintenance of Concrete Substructure	0	33	0.000	0.000	0.000	33.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	15	0.000	0.000	0.000	15.000
Piles and Columns	3348	Maintenance of Concrete Substructure	6	8	0.000	3.000	4.000	1.000

Priority Actions Request

Structure Nun	nber 110106		
Span1			
3306	Beam 1	Reinforced Co	ncrete Girder
Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Span 1 Beam 1: (PAR) at bent 1, east face, bottom of beam, spall (full width x 5 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)
2	Exposed Rebar	3	Span 1 Beam 1: (PAR) at bent 1, east face, failed patch (19 inch x full height x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)
2816	Wearing Surface	Asphalt Weari	ng Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	13	Span 1 Wearing Surface: (PAR) at bent 1, southbound lane, partially patched pothole (13 foot x 6 inch x full depth)
2	Patched Area/Pothole	1	Span 1 Wearing Surface: (PAR) at centerline of roadway, pothole (14 inch x 4 inch x 3 inch deep)

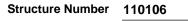
Span2

3306	Beam 4	Reinforced Co	ncrete Girder
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Span 2 Beam 4: (PAR) at bent 2, west face and underside, multiple spalls/delaminations (up to 21 inch x 5 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)
2816	Wearing Surface	Asphalt Wearir	ng Surface
Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	31	Span 2 Wearing Surface: (PAR) at bent 2, partially patched potholes (up to 16 inch 6 inch x full depth)
pan3 3306	Beam 1	Reinforced Co	
	Beam 1 Defect Type	Reinforced Co	ncrete Girder
3306 Priority			
3306 Priority Level	Defect Type	Quantity	Defect Description Span 3 Beam 1: (PAR) east face lower web at 5 foot from bent 2, delamination, 5 foot x up to 24 inch high, over right shoulder of I-40 eastbound lane
3306 Priority Level 2	Defect Type Delamination/Spall	Quantity 5	Defect Description Span 3 Beam 1: (PAR) east face lower web at 5 foot from bent 2, delamination, 5 foot x up to 24 inch high, over right shoulder of I-40 eastbound lane

Priority Actions Request

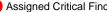
			reinforcing [approximately 25 percent loss]
2816	Wearing Surface	Asphalt Wearir	ng Surface
Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	2	Span 3 Wearing Surface: (PAR) at bent 3, southbound lane, pothole (2 foot x 9 incl x full depth)
Span4			
2816	Wearing Surface	Asphalt Wearir	ng Surface
Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	5	Span 4 Wearing Surface: (PAR) at bent 4, (3) potholes (up to 3 foot x 8 inch x full depth)
Bent 1			
3348	Cap 1	Reinforced Co	ncrete Pier Cap
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Bent 1 Cap 1: (PAR) 2 FOOT X UP TO 16 INCH X 3 INCH DEEP SPALL WITH EXPOSED RUSTED PRIMARY REINFORCING [SECTION LOSS UP TO 1/8 INCH AT SOUTHWEST CORNER
2	Exposed Rebar	1	Bent 1 Cap 1: (PAR) 6 INCH DIAMETER X 1 INCH SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT SECTION LOSS SOUTH FACE UNDER BEAM 1
Bent 4			
3348	Cap 1	Reinforced Co	ncrete Pier Cap
Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	1	Bent 4 Cap 1: (PAR) 16 INCH X UP TO 1/32 INCH VERTICAL CRACK WITH RUS STAIN NORTH FACE UNDER BEAM 1
Approach Guardrail and Barriers			
3120	Approach Guardrail and Barriers	Approach Gua	rdrail and Barriers
Priority Level	Defect Type	Quantity	Defect Description

Priority Actions Request





1 (PAR) southwest guardrail termination, impact damage



Element Condition and Maintenance Data

Inspection Date: 08/09/2023

Structure Number: <u>110106</u> Span 1

Reinforced Concrete Girder

Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	34	15	16	3	0	Feet
Element Number	Defect Type	Defect Descript	ion		CS	CS Qty	Maint Qty	
∕_ 110 ା	Delamination/Spall	(PAR) at bent 1, east face, bottom of the full width x 5 inch x 2 inch deep) with rusted rebar (approximately 25 percertions)	exposed		3			Feet
110	Delamination/Spall	West face at bent 1, spall/delamination inch x 1 inch deep] with exposed ruste	•		3			Feet
∕_ 110 ା	Exposed Rebar	(PAR) at bent 1, east face, failed patch full height x 1.5 inch deep) with expos rebar (approximately 25 percent loss)			3	3	ć	3 Feet
· .	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROU(2	16		Feet

General Comments

Beam 1

Reinforced Concrete Girder

Nun	nent nber	Element Name		CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	34	27	1	0	0 Feet	
Elemen Numbe	Defect Type	Defect Descripti	on		CS	CS Qty	Maint Qty	
v 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROUG			2	6	Feet	
√ 110	Delamination/Spall	east face at bent 1, multiple spalls/dela to 10 inch x 11 inch x 1/2 inch deep) v rusted rebar			2	1	1 Feet	

General Comments

Span 1

Span 1

Beam 4

Reinforced Concrete Girder

Elem Num 110	ber	Element Name Reinforced Concrete Open Girder/Beam		CS1 Qty 13	CS2 Qty 20	CS3 Qty 1	CS4 Qty 0 Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty
✓ 110	Cracking (RC and Other)	at bent 1, west face, delamination (8 inch with cracks (up to 1/16 inch)	n x 6 inch)		3	1	1 Feet
√ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CF TO 1/64 INCH AT RANDOM THROUGH			2	20	Feet

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	aring	1	1	0	0	0	Each
515	Steel Pro	otective Coating	1	1	0	0	0	Square Feet
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
7 313	Corrosion	(not found 2023) active corrosion ([up to 1/16 inch] on plates	with section loss		1			Each
515	Effectiveness (Steel Protective Coatings)	(not found 2023) paint failure, no p underlying metal	protection of		1			Square Feet
] 515	Peeling/Bubbling/Crac ing (steel Protective Coatings)	k DEFECT NOT FOUND 08/08/2019	9		1	1		Square Feet

General Comments

in 1	Far Bearir	ng 1					
vable Bearing							
ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty		
Movable	Bearing	1	0	0	1	0	Each
Steel Pro	otective Coating	1	0	0	0	1	Square Feet
nt Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
Corrosion	active corrosion with section loss [up to 1/8 inch] on plates			3	1		1 Each
Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
r	vable Bearing ment nber Movable Steel Pro tr Defect Type Corrosion Effectiveness (Steel	Ment Inber Element Name Movable Bearing Steel Protective Coating It Defect Type Corrosion active corrosion with section loss plates Effectiveness (Steel corrosion with section loss	Total Qty ment nber Element Name Qty Movable Bearing 1 Steel Protective Coating 1 tr Defect Type Defect Description Corrosion active corrosion with section loss [up to 1/8 inch] on plates Effectiveness (Steel corrosion with section loss	Total Qty Qty Inber Element Name Total Qty CS1 Qty Movable Bearing 1 0 Steel Protective Coating 1 0 tr Defect Type Defect Description Corrosion active corrosion with section loss [up to 1/8 inch] on plates Effectiveness (Steel corrosion with section loss	Vable Bearing Inber Element Name Total Qty CS1 Qty CS2 Qty Movable Bearing 1 0 0 Steel Protective Coating 1 0 0 Steel Protective Coating 1 0 0 tr Defect Type Defect Description CS Corrosion active corrosion with section loss [up to 1/8 inch] on plates 3 3 Effectiveness (Steel corrosion with section loss 4	Vable Bearing Import ment mber Element Name Total Qty CS1 Qty Qty Qty Qty Qty Movable Bearing 1 0 0 1 Steel Protective Coating 1 0 0 0 tr Defect Type Defect Description CS CS Qty Corrosion active corrosion with section loss [up to 1/8 inch] on plates 3 1 Effectiveness (Steel corrosion with section loss 4 1	vable Bearing Iment nber Element Name Total Qty CS1 Qty Qty

General Comments

•									
Spar	n 1		Near Bearing 2						
Fixe	d Bearing								
Elen Num					CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing		1	0	1	0	0	Each
515	Steel Pr	otective Coating		1	0	1	0	0	Square Feet
Element Number	Dofoot Typo		Defect Description			CS	CS Qty	Maint Qty	
/ 313	Corrosion	freckled rust				2	1		Each
7 515	Effectiveness (Steel Protective Coatings)	freckled rust				2	1		1 Square Feet
515	Peeling/Bubbling/Crac ing (steel Protective Coatings)	k DEFECT NOT FOU	ND 08/08/2019			1			Square Feet

Movable Bearing

Span 1

	Lable Dealing						
	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	1	0 Square Feet
Elemen Numbe	Defect Type	Defect Description	n		CS	CS Qty	Maint Qty
✓ 311	Corrosion	freckled rust/surface rust			2	1	Each
✓ 515	Effectiveness (Steel Protective Coatings)	freckled rust/surface rust			3	1	1 Square Feet
-	General Comments						

General Comments

Spa	n 1	Near Bearin	ng 3					
Fixe	d Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed E	Bearing	1	0	1	0	0	Each
515	Steel F	Protective Coating	1	0	1	0	0	Square Feet
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
✓ 313	Corrosion	active spot rust			2	1		Each
✓ 515	Effectiveness (Steel Protective Coatings)	paint failure, corrosion initiated			2	1		1 Square Feet
Ī	General Comments							

Far Bearing 3

Movable Bearing

Span 1

	ment mber	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	1	0	Square Feet
Elemer Numbe	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
✓ 311	Corrosion	freckled rust/surface rust			2	1	Ē	Each
√ 515	Effectiveness (Steel Protective Coatings)	freckled rust/surface rust			3	1		1 Square Feet
	General Comments							

Near Bearing 4

Fixed Bearing

Span 1

Elerr Num 313		Fixed B	Element Name Bearing		Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0	
515		Steel P	rotective Coating		1	0	0	0	1	Square Feet
Element Number	Dofoot 7	Туре		Defect Description			CS	CS Qty	Maint Qty	
<mark>√</mark> 313	Corrosion		corrosion with section	on loss (up to 1/8 inch d	leep)		3	1	-	1 Each

✓ 515	Effectiveness (Steel corrosion with section loss Protective Coatings)
515	Peeling/Bubbling/Crack DEFECT NOT FOUND 08/08/2019 ing (steel Protective Coatings)

Inspection Date: 08/09/2023

411Square Feet1Square Feet

General Comments

Span 1

Far Bearing 4

Movable Bearing

	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
✓ 311	Corrosion	active corrosion with section loss [uplates	ıp to 1/8 inch] on		3	1	-	1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
-	General Comments							

Span 1

Wearing Surface

Asphalt Wearing Surface

Elem Num 510		Element Name Surface	Total Qty 952	CS1 Qty 863	CS2 Qty 0	CS3 Qty 89	CS4 Qty 0 S	quare Feet
Element Number	Dofact Type	Defect Description			CS	CS Qty	Maint Qty	
∕ 510	Crack (Wearing Surface)	along length of asphalt over end bent 1, t cracks [up to 1/4 inch x full roadway width spalling up to [1/2 inch deep] and associa patch [4 foot x 8 inch]	n] with edge		3	31	31	Square Feet
510	Crack (Wearing Surface)	MULTIPLE AREAS OF BROKEN ASPHA CRACKING UP TO 1/16 INCH X 2 FOOT SOUTHBOUND LANE 7 FOOT FROM W	X 10 FOOT		3	40	40	Square Feet
510	Crack (Wearing Surface)	near end bent 1, northbound lane, patche inch x 14 inch) with adjacent map cracks inch x 2 foot x 2 foot)	```		3	4	4	Square Feet
· 510	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 1, southbound lane, partial pothole (13 foot x 6 inch x full depth)	ly patched		3	13	13	Square Feet
510	Patched Area/Pothole (Wearing Surface)	(PAR) at centerline of roadway, pothole (inch x 3 inch deep)	14 inch x 4		3	1	1	Square Feet

General Comments

Span 2

Beam 1

Reinforced Concrete Girder

Elen Nun 110	nber	Element Name ced Concrete Open Girder/Beam	Total Qty 34	CS1 Qty 11	CS2 Qty 20	CS3 Qty 3	CS4 Qty 0 Fee	t
Elemen Numbe	Defect Turne	Defect Descriptio	n		CS	CS Qty	Maint Qty	
🗸 110	Cracking (RC and	east face at bent 1, delamination (32 ind	ch x 18 inch)		3	3	3 F	eet

Span 2

Span 2

Span 2

✓ 110 Cracking (RC and Other)

TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT

General Comments

Inspection Date: 08/09/2023

20

2

Feet

Beam 2	
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Reinforced Concrete Girder

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinfor	ced Concrete Open Girder/Beam	34	21	13	0	0 Feet
Elemen Numbe	Dofact Type	Defect Descript	ion		CS	CS Qty	Maint Qty
7 110	Delamination/Spall	at bent 2 bay 2 end diaphragm, spall [inch x 3 inch] with exposed rusted reir loss noted] with cracks [up to 1/16 inc	nforcing [no		3		1 Feet
/ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROU			2	12	Feet
/ 110	Delamination/Spall	at bent 2, underside, spall (6 inch x 3 deep) with exposed rusted rebar	inch x 1/2 inch		2	1	1 Feet

General Comments

Beam 3

Reinforced Concrete Girder

Elen Nun 110		Element Name ced Concrete Open Girder/Beam	Total Qty 34	CS1 Qty 18	CS2 Qty 16	CS3 Qty 0	CS4 Qty 0 Feet
Elemen Number	Defect Type	Defect Descriptio	'n		CS	CS Qty	Maint Qty
✓ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND (TO 1/64 INCH AT RANDOM THROUGI			2	15	Feet
✓ 110	Delamination/Spall	at bent 2, underside, spall (6 inch x 3 in deep) with exposed rusted rebar	ch x 1/2 inch		2	1	1 Feet

General Comments

Beam 4

Reinforced Concrete Girder

	ment nber Reinfor	Element Name ced Concrete Open Girder/Beam	Total Qty 34	CS1 Qty 8	CS2 Qty 24	CS3 Qty 2	CS4 Qty 0 Feet
Elemer Numbe	Dofact Type	Defect Descripti	on		CS	CS Qty	Maint Qty
V 110	Exposed Rebar	(PAR) at bent 2, west face and unders spalls/delaminations (up to 21 inch x 5 deep) with exposed rusted rebar (appr percent loss)	inch x 1 inch		3	2	1 Feet
✓ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROUG			2	22	Feet
√ 110	Patched Area	at bent 1, west face, (2) delaminations. 3 inch x 2 foot x 1/2 inch deep) with ex rebar and adjacent cracks (up to 1/32	posed rusted		2	2	Feet

Standard Joint

Elen Nun 301		Element Name le Joint Seal	Total Qty 31	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 31 F	eet
Elemen Number	Defect Type	Defect Descriptio	n		CS	CS Qty	Maint Qty	
√ 301	Seal Damage	along the length of the joint, joint materi deteriorated/torn/missing at random	al		4	31	31	Feet
∕ 301	Debris Impaction	EXPANSION JOINT OVER BENT 1 HA SCATTERED AREAS OF DEBRIS IMP VEGETATION GROWTH			3		25	Feet
301	Debris Impaction	MOVED TO ASPHALT WEARING SUR	RFACE		1			Feet
-	General Comments							

Span 2 Left Bridge Rail **Concrete Railing** CS1 CS2 CS3 CS4 Element Total Number **Element Name** Qty Qty Qty Qty Qty 331 Reinforced Concrete Bridge Railing 0 0 Feet 34 33 1 Element Maint CS Qty cs Defect Type **Defect Description** Number Qty 🖌 331 Delamination/Spall at 5th rail post from bent 1, top corner, spall [4 inch 2 1 1 Feet x 3 inch x up to 3/4 inch] no exposed reinforcing

General Comments

Span 2 **Near Bearing 1 Movable Bearing** Element Total CS1 CS2 CS3 CS4 **Element Name** Number Qty Qty Qty Qty Qty 311 Movable Bearing 0 0 1 0 Each 1 515 Steel Protective Coating 1 0 0 0 1 Square Feet Maint Element **Defect Type Defect Description** CS CS Qty Number Qty corrosion with section loss (up to 1/8 inch) Corrosion 3 1 1 Each 🗸 311 ✓ 515 Effectiveness (Steel corrosion with section loss 4 1 1 Square Feet Protective Coatings) **General Comments**

Span 2

Far Bearing 1

Fixed Bearing

Elen Num		Element	Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Bearing		1	0	1	0	0	Each
515		Steel Protective Coatin	g	1	0	0	0	1	Square Feet
Element Number	Defeet	Туре	Defect Description			CS	CS Qty	Maint Qty	
🗸 313	Corrosion	rust scale				2	1		Each

 ✓ 515
 Effectiveness (Steel Protective Coatings)
 rust scale

 General Comments
 Figure 1

4

Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	311 Movable Bearing		1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Element Number	Defect Type	Defect Description	n		CS	CS Qty	Maint Qty	
∕ 311	Corrosion	freckled rust/surface rust			2	1	-	Each
	Effectiveness (Steel Protective Coatings)	freckled rust/surface rust			3	1		1 Square Feet

Near Bearing 2

Spa	an 2	Far Bea	aring 2					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1 \$	Square Feet
Elemer Numbe	Dofact Type	Defect	Description		CS	CS Qty	Maint Qty	
✓ 313	Corrosion	active corrosion with section plates	loss [up to 1/8 inch] on		3	1	1	Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1	Square Feet
	General Comments							

Spai	n 2	Near Bearing	g 3					
Mov	able Bearing							
Elen Num 311	nber	Element Name Bearing	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Element Number	Dofact Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
7 311	Corrosion	freckled rust/surface rust			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	freckled rust/surface rust			3	1		1 Square Feet

Fixed	

nent		Total	CS1	CS2	CS3	CS4	
nber	Element Name	Qty	Qty	Qty	Qty	Qty	
Fixed Be	earing	1	0	0	1	0	Each
Steel Pre	ptective Coating	1	0	0	0	1	Square Feet
t Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
Corrosion	active corrosion with section loss plates	s [up to 1/8 inch] on		3	1		1 Each
Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
r	ber Fixed Be Steel Pro t Defect Type Corrosion Effectiveness (Steel	ber Element Name Fixed Bearing Steel Protective Coating t Defect Type Defect Des Corrosion active corrosion with section loss plates Effectiveness (Steel corrosion with section loss	Element Name Qty Fixed Bearing 1 Steel Protective Coating 1 Defect Type Defect Description Corrosion active corrosion with section loss [up to 1/8 inch] on plates Effectiveness (Steel corrosion with section loss	Element Name Qty Qty Fixed Bearing 1 0 Steel Protective Coating 1 0 Defect Type Defect Description Corrosion active corrosion with section loss [up to 1/8 inch] on plates Effectiveness (Steel corrosion with section loss	Element Name Qty Qty Qty Qty Fixed Bearing 1 0 0 Steel Protective Coating 1 0 0 Defect Type Defect Description CS Corrosion active corrosion with section loss [up to 1/8 inch] on plates 3 Effectiveness (Steel corrosion with section loss 4	Element Name Qty Qty Qty Qty Qty Fixed Bearing 1 0 0 1 Steel Protective Coating 1 0 0 0 Defect Type Defect Description CS CS Qty Corrosion active corrosion with section loss [up to 1/8 inch] on plates 3 1 Effectiveness (Steel corrosion with section loss 4 1	Element Name Qty <

General Comments

Span 2

Near Bearing 4

Movable Bearing

Element CS1 CS4 Total CS2 CS3 Number **Element Name** Qty Qty Qty Qty Qty 311 Movable Bearing 0 Each 0 0 1 1 515 **Steel Protective Coating** 0 0 0 1 1 Square Feet Maint Element Defect Type **Defect Description** cs CS Qty Number Qty active corrosion with section loss [up to 1/8 inch] on 3 🗸 311 Corrosion 1 1 Each plates 🗸 515 Effectiveness (Steel corrosion with section loss 4 1 1 Square Feet Protective Coatings) **General Comments**

Span 2

Far Bearing 4

Fixed Bearing

Elen Num		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
Element Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty
7 313	Corrosion	active corrosion with section loss plates	[up to 1/8 inch] on		3	1	1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1 Square Feet

General Comments

Span 2

Wearing Surface

Asphalt Wearing Surface

Elem Num 510		Element Name Surface	Total Qty 952	CS1 Qty 881	CS2 Qty 15	CS3 Qty 56	CS4 Qty 0 Square Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty
√ 510	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 1, southbound lane, partially pothole (13 foot x 6 inch x full depth)	patched		3	13	13 Square Feet

Structure	Number: <u>110106</u>	Inspection Date: 08/09/2023				
✓ 510	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 2, partially patched potholes (up to 16 inch x 6 inch x full depth)	3	31	31	Square Feet
√ 510	Patched Area/Pothole (Wearing Surface)	Southbound lane, shallow pothole/patched area [12 foot long x up to 10 inch x up to 1/2 inch deep]	3	12	12	Square Feet
√ 510	Crack (Wearing Surface)	throughout topside of deck, multiple transverse and longitudinal cracks [up to 16 inch x up to 1/4 inch]	2	15	15	Square Feet

Expansion Joint 2

Standard Joint

Span 3

Elen Num 301		Element Name e Joint Seal	Total Qty 31	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 31 F	Feet
Elemen Number	- Defect Turne	Defect Description			CS	CS Qty	Maint Qty	
✓ 301	Seal Damage	along the length of the joint, joint material deteriorated/torn/missing at random			4	31	31	Feet
V 301	Debris Impaction	EXPANSION JOINT OVER BENT 2 HAS SCATTERED AREAS OF DEBRIS IMPACTI VEGETATION GROWTH	ON WITH	ł	3		31	Feet

General Comments

Span 3

Beam 1

Reinforced Concrete Girder

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	55	23	25	7	0 F	eet
Elemen Numbe	Dofact Type	Defect Descripti	on		CS	CS Qty	Maint Qty	
√ 110	Delamination/Spall	(PAR) east face lower web at 5 foot fro delamination, 5 foot x up to 24 inch hig shoulder of I-40 eastbound lane			3	5	5	Feet
√ 110	Delamination/Spall	at bent 3, east face, spall/delaminatior inch x 1/2 inch deep); underside, spall inch x 1/2 inch deep) with exposed rus	(4 inch x 3		3	1	1	Feet
v 110	Delamination/Spall	east face web at bent 2, spall [12 inch inch deep] with exposed rusted reinfor			3	1	1	Feet
✓ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROUG			2	24		Feet
✓ 110	Delamination/Spall	east face web at bent 2, delamination inch]	[12 inch x 10		2	1	1	Feet

General Comments

Span 3

Beam 2

Reinforced Concrete Girder

	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinford	ced Concrete Open Girder/Beam	55	34	20	1	0 Feet	
Elemen Numbe	Defect Type	Defect Description	1		CS	CS Qty	Maint Qty	
√ 110	Cracking (RC and Other)	at bottom of beam west face at bent 3, d (5 inch x 4 inch) with cracks (up to 1/16 i			3	1	1 Feet	
✓ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND C TO 1/64 INCH AT RANDOM THROUGH			2	18	Feet	

Structure	Number: <u>110106</u>			Inspectio	n Date: 08/09/2023
✓ 110	Delamination/Spall	east face at bent 3, delamination/spall [3 inch x 1 foot x up to 3/4 inch deep] with exposed rusted reinforcing no section loss	2	1	1 Feet
√ 110	Patched Area	2023 previously repaired, patch (7 inch x 2 foot), previously noted as: West face at bent 3, delamination/spall [5 inch x 3 foot high x up to 3/4 inch deep] with exposed rusted reinforcing no section loss	2	1	Feet

Spar	n 3	Beam 3									
Reinforced Concrete Girder											
Elem Num 110	iber	Element Name ced Concrete Open Girder/Beam	Total Qty 55	CS1 Qty 37	CS2 Qty 17		CS4 Qty 0 F	eet			
	Element Number Defect Type Defect Descri				CS	CS Qty	Maint Qty				
☑ 110	Delamination/Spall	inch deep] with exposed rusted reinford noted]; underside at bent 2 bearing, sp	west face at bent 2, spall [14 inch x up to 8 inch x 1 inch deep] with exposed rusted reinforcing [no loss noted]; underside at bent 2 bearing, spall [4 inch x 4 inch x 1/2 inch deep] with exposed rusted reinforcing [no loss noted]			1	1	Feet			
	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROUG			2	16	16	Feet			
∕ 110	Delamination/Spall	at bent 3, underside, spall (6 inch x 3 ir deep) with exposed rusted rebar	nch x 1/2 inch		2	1	1	Feet			
C	General Comments										

Span 3

Beam 4

Reinforced Concrete Girder

Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	55	23	28	4	0	Feet
Element Number	Dofact Type	Defect Descript	ion		CS	CS Qty	Maint Qty	
∕ 110	Delamination/Spall	at bent 3, underside, spall (6 inch x 3 deep) with exposed rusted rebar	inch x 1/2 inch		3	1	1	Feet
∕ 110	Exposed Rebar	(PAR) west face web and underside a spall/delamination [30 inch x up to full 2 inch deep] with exposed rusted prim [approximately 25 percent loss]	height x up to		3	3	3	8 Feet
	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROU			2	28		Feet

Span 3		Near Bearing 1						
Movable	e Bearing							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing		1	0	0	1	0	Each
515	Steel Protective Coating		2	0	0	0	2	Square Feet
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Inspe	ction Date: 08/09/2023			
✓ 311	Corrosion	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2 Square Feet
	General Comments				

General	Commen

Spar	n 3	Far Bearing	j 1					
Fixe	d Bearing							
Elerr Num		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
Element Number	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
∕ 31 3	Corrosion	corrosion with section loss (up to 1	/16 inch)		3	1	-	1 Each
	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
ī	General Comments							

Spa	an 3	Near Be	aring 2					
Мо	vable Bearing							
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	2	1	0	0	1	Square Feet
Eleme Numbe	Dofact Type	Defect D	escription		CS	CS Qty	Maint Qty	
✓ 311	Corrosion	active corrosion with section lo on plates	oss [up to 1/16 inch]		3	1		1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	General Comments							

Spa	an 3		Far Bearing 2						
Fix	ed Bearing								
	ement Imber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed I	Bearing		1	0	1	0	0	Each
515	Steel F	Protective Coating		1	0	0	0	1	Square Feet
Eleme Numb	Dofact Type		Defect Description			CS	CS Qty	Maint Qty	
✓ 313	Corrosion	rust scale				2	1		Each
✓ 515	Effectiveness (Steel Protective Coatings)	rust scale				4	1		1 Square Feet
	General Comments								

Span 3

Movable	Bearing
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Elem Num	••••	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Element Number	Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
∕ 311	Corrosion	active corrosion with section los	s [up to 1/8 inch] on		3	1		1 Each
	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	2	:	2 Square Feet

General Comments

Span 3

Far Bearing 3

Fixed Bearing

Element CS1 CS4 Total CS2 CS3 Number **Element Name** Qty Qty Qty Qty Qty 313 Fixed Bearing 0 Each 0 1 0 1 515 **Steel Protective Coating** 0 1 0 0 Square Feet 1 Element Maint Defect Type **Defect Description** CS CS Qty Number Qty 2 ✓ 313 Corrosion freckled rust 1 Each ✓ 515 2 Effectiveness (Steel freckled rust 1 1 Square Feet Protective Coatings) **General Comments**

Span 3

✓ 515

Near Bearing 4

Movable Bearing

Element Number 311	r	Element Name e Bearing	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0	
515	Steel P	rotective Coating	2	1	0	0	1	Square Feet
Element Number	Defect Type	Defect D	Description		CS	CS Qty	Maint Qty	
✓ 311 Co	rrosion	active corrosion with section le plates	oss [up to 1/8 inch] on		3	1	-	1 Each

4

1

1 Square Feet

Protective Coatings)

General Comments

Effectiveness (Steel

Far Bearing 4

corrosion with section loss

Fixed Bearing

Span 3

Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed	Bearing	1	0	0	1	0	Each
515	Stee	Protective Coating	1	0	0	0	1	Square Feet
Elemen Number	Defect Type	Defect Descrip	tion		CS	CS Qty	Maint Qty	
✓ 313	Corrosion	corrosion with section loss (up to 1/8	inch)		3	1		1 Each

✓ 515 Effectiveness (Steel corrosion with section loss Protective Coatings)

Inspection Date: 08/09/2023

1 1 Square Feet

4

General Comments

Span 3

Wearing Surface

Asphalt Wearing Surface

Elen Nun 510		Element Name Surface	Total Qty 1,540	CS1 Qty 1,490	CS2 Qty 0	CS3 Qty 50	CS4 Qty 0 S	quare Feet
Elemen Number	- Dofoot Typo	Defect Descrip	tion		CS	CS Qty	Maint Qty	
√ 510	Crack (Wearing Surface)	MAP CRACKING UP TO 1/4 INCH S LANE 3 FOOT FROM WEST CURB	OUTHBOUND		3	40	40	Square Feet
√ 510	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 3, southbound lane, po 9 inch x full depth)	othole (2 foot x		3	2	2	Square Feet
√ 510	Patched Area/Pothole (Wearing Surface)	SOUTHBOUND LANE NEAR BENT PATCHED AREA (4 FOOT X 2 FOO CRACKING AND EDGE SPALLING DEPTH)	T) WITH		3	8	8	Square Feet

General Comments

Spar	n 4	Deck						
Rein	forced Concrete	Deck						
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,733	1,733	0	0	0 Square Feet	
Element Number	Dofact Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	DEFECT NOT FOUND 08/08/2019	1		1		Square Fe	et

General Comments

Span 4

Beam 1

Reinforced Concrete Girder

	nent nber Reinfor	Element Name ced Concrete Open Girder/Beam	Total Qty 55	CS1 Qty 23	CS2 Qty 32	CS3 Qty 0	CS4 Qty 0 Feet	
Elemen Number	Dofact Type	Defect Description			CS	CS Qty	Maint Qty	-
✓ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CR/ TO 1/64 INCH AT RANDOM THROUGHO			2	10	Feet	
✓ 110	Patched Area	2023 NEW REPAIR, PATCHED AREA, PF NOTED AS: SUPPLEMENTAL INSPECTIO DAMAGE 11/23/2021 [PAR] EAST FACE WEB OVER I-40 RIGHT WESTBOUND LA SPALL/IMPACT DAMAGE [14 FOOT X UF WIDTH X UP TO 15 INCH UP BOTH FAC TO 3.5 INCH DEEP] WITH MULTIPLE EX RUSTED PRIMARY REINFORCING [SEC LOSS UP TO 1/16 INCH] WITH ADJACEN DELAMINATIONS [UP TO 18 INCH X 10 I	ON IMPACT LOWER ANE, P TO FULL ES X UP POSED TION JT		2	14	Feet	

Structure	Number: <u>110106</u>			Inspection I	Date: 08/09/2023
V 110	Patched Area	2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : 9 INCH X 14 INCH X 3/4 INCH SPALL WITH EXPOSED RUSTED REINFORCING NO SECTION LOSS WEST FACE AT BENT 4	2	1	Feet
√ 110	Patched Area	2023 NEW REPAIR, PATCHED AREAS (UP TO 2.5 FOOT X FULL WIDTH), PREVIOUSLY NOTED AS: LONGITUDINAL CRACKS [UP TO 3 FOOT X UP TO 1/8 INCH] ON BOTTOM FACE AT BENT 3 WITH ASSOCIATED DELAMINATION THAT WRAPS AROUND TO EAST FACE [3 FOOT X 5 FOOT]	2	5	Feet
√ 110	Patched Area	2023 NEW REPAIR, PATCHED AREAS, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 EAST FACE LOWER WEB OVER I-40 LEFT WESTBOUND LANE, TWO [2] SPALLS/IMPACT DAMAGE [UP TO 14 INCH X FULL WIDTH X 6 INCH] WITH ADJACENT DELAMINATION [UP TO 10 INCH X 8 INCH]	2	2	Feet
v 110	Patched Area	(COMBINED WITH OTHER NOTES 2023) 2 FOOT X UP TO 1 FOOT X 8 INCH CRACKED PATCHED AREA ON BOTTOM AND WEST FACES NEAR MIDSPAN	1		Feet

Span 4

Beam 2

Reinforced Concrete Girder

	ment nber Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 55	CS1 Qty 32	CS2 Qty 23	CS3 Qty 0	CS4 Qty 0 Feet
Elemen Numbe	Dofact Type	Defect Description			CS	CS Qty	Maint Qty
✓ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CR. TO 1/64 INCH AT RANDOM THROUGHC			2	20	Feet
√ 110	Patched Area	2023 NEW REPAIR, PATCHED AREA, PI NOTED AS: SUPPLEMENTAL INSPECTI DAMAGE 2021 : 2 - UP TO 1.5 FOOT X 1 INCH SPALLS EAST AND BOTTOM FAC WESTBOUND LANE	ON IMPACT 0 INCH X 6		2	3	Feet
✓ 110	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023 SUPPLEMENTAL INSPECTION IMPACT 11/23/2021 : 4 FOOT-0 INCH LONG X 18 HIGH X 3.5 INCH DEEP SPALL WITH RE EXPOSURE AT	DAMAGE INCH		1		Feet

General Comments

Span 4

Beam 3

Reinforced Concrete Girder

Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced	Concrete Open Girder/Beam	55	30	24	1	0 Feet	
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	

Structure	Number: 110106		Inspection Date: 08/09/2023		
√ 110	Patched Area	2023 PREVIOUSLY REPAIRED, PATCHED AREA (7 INCH X 2 FOOT) WITH CRACKS (UP TO 1/32 INCH),(PREVIOUSLY NOTED AS: EAST FACE AT BENT 3, DELAMINATION/SPALL [5 INCH X UP TO 4 FOOT X 3/4 INCH DEEP] WITH EXPOSED RUSTED REINFORCING NO SECTION LOSS	3	1	1 Feet
✓ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	18	Feet
✓ 110	Delamination/Spall	west face at bent 3, delamination [16 inch diameter] with cracks [up to 1/32 inch]	2	2	2 Feet
√ 110	Patched Area	2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : 4 FOOT X UP TO 10 INCH X 4 INCH SPALL WITH EXPOSED REINFORCING EAST AND BOTTOM FACE OVER WESTBOUND LANE	2	4	Feet
V 110	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 11/23/2021 : 5 FOOT LONG X UP TO ENTIRE WIDTH X 4 INCH DEEP SPALL WITH EXPOSED REINFORCING BARS EXPOSED	1		Feet
v 110	Delamination/Spall	(NOT FOUND 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : SPALL AT FAR END ABOVE INTERIOR. BENT 4 , 4 INCH LONG X 4 INCH WIDE X 1 INCH DEEP.	1		Feet

Span 4

Beam 4

Reinforced Concrete Girder

Elem Numl		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinford	ced Concrete Open Girder/Beam	55	24	28	3	0	Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty		
V 110	Patched Area	2023 PREVIOUSLY REPAIRED, PARTIA PATCHES (UP TO 17 INCH X 11 INCH X DEEP), PREVIOUSLY NOTED AS: WES BENT 3, DELAMINATION/SPALL [4.5 FO FOOT X 1.25 INCH DEEP] WITH (3) EXI RUSTED REINFORCING [SECTION LO 1/32 INCH]	K 1 INCH T FACE AT DOT X 2 POSED)	3	3	3	3 Feet
· · · ·	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CF TO 1/64 INCH AT RANDOM THROUGH			2	24		Feet
<mark>√</mark> 110	Delamination/Spall	at bent 4, west face, delamination (3 inch	x 16 inch)		2	1	1	Feet
/ 110	Patched Area	2023 NEW REPAIR, PATCHED AREA, F NOTED AS: SUPPLEMENTAL INSPECT DAMAGE 2021 UNDERSIDE OVER I-40 WESTBOUND LANE, MULTIPLE SPALL IMPACT DAMAGE [UP TO 3 INCH X 2 II INCH DEEP]	ION IMPACT RIGHT S/AREAS		2	3		Feet
V 110	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023 SUPPLEMENTAL INSPECTION IMPACT 11/23/2021 SPALLING 14 INCH LONG X WIDE X 2.5 INCH DEEP AT 17 FOOT-8 FRO INTERIOR. BENT 4.	ÚDAMAGE		1			Feet

Expansion Joint 3

Span 4

Standard Join

Element Number			otal Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	31	0	0	0	31 Fee	et
Elemen Numbe	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
✓ 301	Seal Damage	along the length of the joint, joint material deteriorated/torn/missing at random			4	31	31 F	eet
✓ 301	Debris Impaction	EXPANSION JOINT OVER BENT 3 HAS DEB IMPACTION with vegetation growth	BRIS		3		31 F	eet

General Comments

Span 4

Left Bridge Rail

Concrete	Railing
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Elemen Number 331	r	Element Name ced Concrete Bridge Railing	Total Qty 55	CS1 Qty 54	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	Feet
Element Number	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
✓ 331 De	lamination/Spall	at bent 3 top of curb, spall [3 inch x 3/4 inch deep] no exposed rusted re			2	1	1	Feet

ring Element Nar							
Flement Nar							
Element nui	ne	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Movable Bearing		1	0	1	0	0	Each
Steel Protective Coating		2	1	0	0	1	Square Feet
t Type	Defect Description			CS	CS Qty	Maint Qty	
rust scale				2	1		Each
				4	1		1 Square Feet
, (Steel Protective Coating	Steel Protective Coating Ct Type Defect Description rust scale Coatings) Defect Description	Steel Protective Coating 2 Ct Type Defect Description rust scale rust scale Steel rust scale	Steel Protective Coating 2 1 Ct Type Defect Description rust scale ess (Steel rust scale Coatings)	Steel Protective Coating 2 1 0 Ct Type Defect Description CS rust scale 2 2 ess (Steel rust scale 4	Steel Protective Coating 2 1 0 0 ct Type Defect Description CS CS Qty rust scale 2 1 ess (Steel rust scale 4 1	Steel Protective Coating 2 1 0 0 1 ct Type Defect Description CS CS Qty Maint Qty rust scale 2 1 ess (Steel rust scale 4 1

Spa	an 4		Far	Bearing 1						
Fixe	ed Bea	aring								
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	earing		1	0	0	1	0	Each
515		Steel Pr	otective Coating		1	0	0	0	1 :	Square Feet
Elemer Numbe		Defect Type	Def	ect Description			CS	CS Qty	Maint Qty	
√ 313	Corro	sion	active corrosion with sect	tion loss [up to 1/1	6 inch]		3	1	1	Each
√ 515		tiveness (Steel ctive Coatings)	corrosion with section los	S			4	1	1	Square Feet
	Genera	al Comments								

Movable Bearing

Span 4

	-	·							
	ment mber	Element N	ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Μ	ovable Bearing		1	0	1	0	0	Each
515	S	teel Protective Coating		1	0	0	0	1	Square Feet
Elemen Numbe	Defect Tu	ре	Defect Description			CS	CS Qty	Maint Qty	
√ 311	Corrosion	rust scale				2	1		Each
√ 515	Effectiveness (S Protective Coat					4	1		1 Square Feet
	General Comme	ents							

Span 4 Far Bearing 2 **Fixed Bearing** CS1 CS2 CS4 Element Total CS3 Number **Element Name** Qty Qty Qty Qty Qty 313 **Fixed Bearing** 0 Each 0 1 0 1 515 Steel Protective Coating 0 0 0 1 Square Feet 1 Element Maint Defect Type **Defect Description** CS CS Qty Number Qty 2 ✓ 313 Corrosion rust scale 1 Each ✓ 515 Effectiveness (Steel rust scale 4 1 1 Square Feet Protective Coatings) **General Comments**

Ocheral Oohinnento

Span 4

Near Bearing 3

Movable Bearing

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Defect Type	Defect Description	on		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

Far Bearing 3

Fixed Bearing

Span 4

Elem Num			Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	,
313		Fixed	Bearing		1	0	1	0	0	Each
515		Steel I	Protective Coating		1	0	0	0	1	Square Feet
Element Number	Dofoot	Туре		Defect Description			CS	CS Qty	Maint Qty	
✓ 313	Corrosion		surface rust/rust scale	9			2	1		Each

✓ 515	Effectiveness (Steel
	Protective Coatings)

Surface)

Patched Area/Pothole

Patched Area/Pothole (Wearing Surface)

(Wearing Surface)

General Comments

√ 510

√ 510

General Comments

surface rust/rust scale

4

3

2

5

2

5 Square Feet

Square Feet

Spa	an 4	Near Bearin	ng 4					
Мо	vable Bearing							
Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		e Bearing	1	0	0	1		Each
515	Steel P	rotective Coating	2	1	0	0	1	Square Feet
Elemer Numbe	Defect Turne	Defect Descr	ription		CS	CS Qty	Maint Qty	
√ 311	Corrosion	active corrosion with section loss [up to 1/8 inch]		3	1		1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	General Comments							
Spa	ın 4	Far Bearing	ı 4					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Defeet True	Defect Descr	ription		CS	CS Qty	Maint Qty	
✓ 313	Corrosion	active corrosion with section loss [up to 1/16 inch]		3	1		1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	General Comments							
Spa	ın 4	Wearing Su	rface					
Asp	halt Wearing Sur	face						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510		g Surface	1,540	1,483	2	55	•	Square Feet
Elemer Numbe	Defect Turne	Defect Descr	ription		CS	CS Qty	Maint Qty	
√ 510	Crack (Wearing	MAP CRACKING UP TO 1/4 INCH			3	50	-	O Square Feet

THROUGHOUT TOPSIDE OF DECK

full depth)

BENT 3.

(PAR) at bent 4, (3) potholes (up to 3 foot x 8 inch x

1 FOOT DIAMETER PATCH SOUTHBOUND LANE

Span 5

Standard Joint

Elen Num		Element Name	Fotal Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourab	le Joint Seal	31	0	0	0	31 Feet
Element Number	Defect Tune	Defect Description			CS	CS Qty	Maint Qty
√ 301	Seal Adhesion	along the length of the joint, joint material deteriorated/torn/missing at randomg			4	31	31 Feet
V 301	Debris Impaction	EXPANSION JOINT OVER BENT 4 HAS DEI IMPACTION WITH VEGETATION GROWTH			3		31 Feet

General Comments

Beam 1

Reinforced Concrete Girder

Elen Nun 110		Element Name Reinforced Concrete Open Girder/Beam		CS1 Qty 26	CS2 Qty 28	CS3 Qty 0	CS4 Qty 0 Feet	
Elemen Number	Dofact Type	Defect Description	on		CS	CS Qty	Maint Qty	
v 110	Patched Area	span 5 bay 1 near diphragm failed pate (up to 1/4 inch x full width)	ch with crack		3		1 Fee	t
✓ 110	Cracking (RC and Other)		VERTICAL CRACKS AND TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/32 INCH AT			25	Fee	t
v 110	Delamination/Spall	at bent 4, underside, spall (6 inch x 3 ir deep) with exposed rusted rebar	nch x 1/2 inch		2	1	1 Fee	t
√ 110	Delamination/Spall	SPAN 5 BEAM 1 WEST FACE WEB C HAS A CRACKED AND DELAMINATE AREA IS: 24 INCH X 32 INCH			2	2	2 Fee	t

General Comments

Span 5

Span 5

Beam 2

Reinforced Concrete Girder

Elerr Num 110	nber	Element Name ced Concrete Open Girder/Beam	Total Qty 54	CS1 Qty 36	CS2 Qty 18	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Tune	Defect Descripti	on		CS	CS Qty	Maint Qty	
∕ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/64 INCH AT RANDOM THROUG			2	18	Feet	İ

General Comments

Beam 3

Reinforced Concrete Girder

Elem Num 110	ber	Element Name ced Concrete Open Girder/Beam	Total Qty 54	CS1 Qty 39	CS2 Qty 14	CS3 Qty 1	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Description	n		CS	CS Qty	Maint Qty	
√ 110	Delamination/Spall	west face at bent 4, spall/delamination inch wide x 1/2 inch deep]	[2 foot x 3		3	1	1 Feet	

✓ 110 Cracking (RC and Other)

TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT

Inspection Date: 08/09/2023

14

2

Feet

,	
General	Comments

Spa	an 5	Beam 4					
Rei	inforced Concrete	Girder					
	ement Imber	Element Name	Total Qty 54	CS1 Qty 25	CS2 Qty 29	CS3 Qty 0	CS4 Qty 0 Feet
		ced Concrete Open Girder/Beam	54	25	29	0	
Eleme Numb	Defect Type	Defect Descript	ion		CS	CS Qty	Maint Qty
v 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND TO 1/32 INCH AT RANDOM THROU			2	28	Feet
v 110	Delamination/Spall	at bent 4, underside, spall (6 inch x 3 deep) with exposed rusted rebar	inch x 1/2 inch		2	1	1 Feet
	General Comments						
Spa	an 5	Left Bridge Ra	ail				
Co	ncrete Railing						
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinford	ced Concrete Bridge Railing	50	49	1	0	0 Feet
Eleme Numb	Defect Tune	Defect Descript	ion		CS	CS Qty	Maint Qty
✓ 331	Delamination/Spall	at 1st rail post, spall [3 inch diameter deep] with exposed rusted reinforcing loss noted]			2	1	1 Feet
	General Comments						
Spa	an 5	Near Bearing	1				
Мо	vable Bearing						
	ement Imber	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
Eleme Numb	Defeet Trues	Defect Descript	ion		CS	CS Qty	Maint Qty
<mark>√</mark> 311	Corrosion	active corrosion with section loss [up	to 1/8 inch]		3	1	1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1 Square Feet
	General Comments						

General Comments

Span 5

Far Bearing 1

Fixed Bearing

Element Number	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
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	

Structure	Number: <u>110106</u>	Inspection Date: 08/09/2023			
✓ 313	Corrosion	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet
	General Comments				

General C	omments
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Spa	an 5	Near Bear	ring 2					
Мо	vable Bearing							
	ment mber	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	Dofact Type	Defect Des	scription		CS	CS Qty	Maint Qty	
<mark>√</mark> 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							

Spa	in 5	Far Bearing 2					
Fixe	ed Bearing						
Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Be	5	1	0	1	0	0 Each
515	Steel Pr	otective Coating	1	0	1	0	0 Square Feet
Elemen Numbe	Dofact Type	Defect Description			cs	CS Qty	Maint Qty
	Dofact Type	Defect Description freckled rust			cs 2	CS Qty 1	
Numbe	er Defect Type	•					Qty
Numbe	r Defect Type Corrosion Effectiveness (Steel	freckled rust	LED RUST		2	1	Qty Each

Spa	an 5			Far Bearing 3						
-		.		i al Doalling o						
Fixed Bearing										
	ement Imber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	earing		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	1	0	0	Square Feet
Eleme Numb	-	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
✓ 313	Corro	sion	FRECKLED RUST				2	1		Each
✓ 515		tiveness (Steel ctive Coatings)	FRECKLED RUST				2	1		1 Square Feet
	Genera	al Comments								

Elen Num 311	nber	Element Name Bearing	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Tune	Defect Description			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
Ī	General Comments							

Span 5

Far Bearing 4

Fixed Bearing

CS4 Element Total CS1 CS2 CS3 Number **Element Name** Qty Qty Qty Qty Qty 313 **Fixed Bearing** 0 Each 0 0 1 1 515 Steel Protective Coating 0 0 0 1 1 Square Feet Maint Element Defect Type **Defect Description** CS CS Qty Number Qty active corrosion with section loss [up to 1/8 inch] on 3 ✓ 313 Corrosion 1 1 Each plates 🗸 515 Effectiveness (Steel corrosion with section loss 4 1 1 Square Feet Protective Coatings) **General Comments**

Span 5

Near Bearing 4

Movable Bearing

Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Movable Bearing		0	0	1	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet
Elemen Numbe	Defect Type	Defect De	scription		CS	CS Qty	Maint Qty	
<mark>√</mark> 311	Corrosion	active corrosion with section los	s [up to 1/16 inch]		3	1		1 Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet

General Comments

Span 5

Wearing Surface

Asphalt Wearing Surface

Elem Num 510	nber	Element Name 9 Surface	Total Qty 1,400	CS1 Qty 1,269	CS2 Qty 0	CS3 Qty 131	CS4 Qty 0	Square Feet
Element Number	Defect Type	Defect Desc	cription		CS	CS Qty	Maint Qty	
√ 510	Crack (Wearing Surface)	along length of asphalt over end t cracks [up to 1/4 inch x full roadw			3	31	31	Square Feet

Structure	Number: 110106	Inspection Date: 08/09/2023				
√ 510	Crack (Wearing Surface)	UP TO 3 FOOT X 1/16 INCH TRANSVERSE CRACKS AT RANDOM THROUGHOUT	3	100	100 Square F	eet
√ 510	Patched Area/Pothole (Wearing Surface)	(NOT FOUND 2023) 31 INCH X UP TO 1 FOOT X 1 INCH FULL DEPTH POT HOLE OVER BENT 4	1		Square F	eet
	A					

Enc	l Bent 1	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	39	39	0	0	0 Fee	et
Elemer Numbe	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	DEFECT NOT FOUND 08/08/20	19		1		F	Feet
	General Comments							

Bent 1

Cap 1

Reinforced Concrete Pier Cap

Elen Num 234	nber	Element Name ced Concrete Pier Cap	Total Qty 30	CS1 Qty 19	CS2 Qty 0	CS3 Qty 11	CS4 Qty 0 Fe	eet
Element Number	Defect Type	Defect Descript	ion		cs	CS Qty	Maint Qty	
<mark>√</mark> 234	Cracking (RC and Other)	(3) UP TO 3 FOOT X 1/16 INCH HOF CRACKS SOUTH AND NORTH FAC			3	6	6	Feet
✓ 234	Delamination/Spall	south face, west end, (2) delamination inch x 19 inch)	ns (up to 13		3	2	2	Feet
√ 234	Exposed Rebar	(PAR) 2 FOOT X UP TO 16 INCH X 3 SPALL WITH EXPOSED RUSTED P REINFORCING [SECTION LOSS UP AT SOUTHWEST CORNER	RIMARY		3	2	2	Feet
✓ 234	Exposed Rebar	(PAR) 6 INCH DIAMETER X 1 INCH EXPOSED REINFORCING APPROX PERCENT SECTION LOSS SOUTH BEAM 1	IMATELY 25		3	1	1	Feet

General Comments

Bent 1

Pile 1

Reinforced Concrete Column

Elem Num 205	ber	Element Name rced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Each
Element Number	Defect Turne	Defect Des	cription		CS	CS Qty	Maint Qty
∕ 205	Cracking (RC and Other)	at top of column, southwest corn foot x 11 inch); southeast corner to 1/16 inch x 2 foot)			3	1	3 Each

Bent 1

Reinforced Concrete Column

	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinfor	ced Concrete Column	1	1	0	0	0 Each
Elemen Numbe	Defect Tune	Defect Description	1		CS	CS Qty	Maint Qty
	Cracking (RC and	DEFECT NOT FOUND 08/08/2019					Each

General Comments

Bent 2

Cap 1

Pile 2

Reinforced Concrete Pier Cap

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	30	9	21	0	0 F	Feet
Element Number	Defect Type	Defect Description	1		CS	CS Qty	Maint Qty	
√ 234	Cracking (RC and Other)	HORIZONTAL, TRANSVERSE AND WR CRACKS UP TO 1/32 INCH AT RANDOI THROUGHOUT WITH ADJACENT DEL/ [UP TO 20 INCH X 2 INCH]	M		2	10	-	Feet
<mark>√</mark> 234	Delamination/Spall	3 - UP TO 2 FOOT X 2 FOOT AREAS O SPALL/HONEYCOMBING WITH HAIRLI CRACKING ON NORTH FACE BELOW	NE MAP		2	4	4	Feet
<mark>√</mark> 234	Delamination/Spall	3 FOOT X UP TO 1/64 INCH HORIZONT WITH EFFLORESCENCE AND ADJACE X 8 INCH X 4 INCH DELAMINATION ON SOUTHEAST CORNER	INT 3 FOOT		2	3	3	Feet
✓ 234	Delamination/Spall	WEST END. HAS SCATTERED AREAS CRACKED UP TO 1/32 INCH AND DEL/ WITH SOME POP-OUTS UP TO 1/2 INC	AMINATED		2	1	1	Feet
<mark>√</mark> 234	Patched Area	3 FOOT X UP TO 3 FOOT PATCHED AF FACE UNDER BAY 3 NEAR BEAM 4	REA SOUTH		2	3		Feet

General Comments

Bent 2

Pile 1

Reinforced Concrete Column

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 Eac	n
Element Number	Dofoot Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
√ 205	Delamination/Spall	base of column at northeast corne 8 inch x 2 inch deep] with exposed reinforcing [no loss noted]			3	1	1 E	ach
√ 205	Cracking (RC and Other)	7 FOOT X UP TO 1/32 INCH VER NEAR BOTTOM OF CAP	TICAL CRACKS		2		E	ach
(General Comments							

Bent 2

Reinforced Concrete Column

	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Column	1	0	1	0	0 Each	
Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
Cracking (RC and Other)	3 FOOT X UP TO 1/32 INCH VE NEAR BOTTOM OF CAP	RTICAL CRACKS		2	1	Each	
	t r Defect Type Cracking (RC and	t Defect Type Defect Dese Cracking (RC and 3 FOOT X UP TO 1/32 INCH VEI	Index Element Name Qty Reinforced Concrete Column 1 t Defect Type Defect Description Cracking (RC and 3 FOOT X UP TO 1/32 INCH VERTICAL CRACKS	Index Element Name Qty Qty Reinforced Concrete Column 1 0 t Defect Type Defect Description r Cracking (RC and 3 FOOT X UP TO 1/32 INCH VERTICAL CRACKS	Index Element Name Qty Qty Qty Reinforced Concrete Column 1 0 1 t Defect Type Defect Description CS Cracking (RC and 3 FOOT X UP TO 1/32 INCH VERTICAL CRACKS 2	Index Element Name Qty Qty Qty Qty Qty Reinforced Concrete Column 1 0 1 0 t Defect Type Defect Description CS CS Qty Cracking (RC and 3 FOOT X UP TO 1/32 INCH VERTICAL CRACKS 2 1	Index Element Name Qty Qty

General Comments

End Bent 2

Bent 3

Cap 1

Pile 2

Reinforced Concrete Pier Cap

Elen Num 234	nber	Element Name ed Concrete Pier Cap	Total Qty 39	CS1 Qty 39	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Tune	Defect Description			CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	DEFECT NOT FOUND 08/08/2019			1		Feet	

General Comments

Cap 1

Reinforced Concrete Pier Cap

Elen Num 234	nber			CS1 Qty 10	CS2 Qty 20		CS4 Qty 0 Feet	
234	Kenior		30	10	20	0	0 Feet	
Element Number	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
<mark>√</mark> 234	Cracking (RC and Other)	along the length of the cap, vertica 1/64 inch x full height) and longitud 1/32 inch x 6 foot) at random			2	16	Feet	
✓ 234	Delamination/Spall	north face under beam 4 delamina foot] with associated map cracking and honeycombing	•		2	3	3 Feet	
√ 234	Patched Area	2023 PREVIOUSLY REPAIRED, F FOOT X 12 INCH), PREVIOUSLY INCH X FULL HEIGHT X 10 INCH EXPOSED RUSTED REINFORCI LOSS UP TO 1/16 INCH] NORTH BENT 3	NOTED AS: 9		2	1	Feet	

Ben	t 3	Pile 1						
Reir	nforced Concrete	Column						
Elen Nun	nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	1	0	0 E	Each
Elemen Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
<mark>√</mark> 205	Abrasion/Wear (PSC/RC)	FULL HEIGHT X UP TO 2 FOOT AREA OF HONEYCOMBING WE	-		2			Each

√ 205

along length of the column, vertical cracks (up to 1/32 inch x full height) at random

Inspection Date: 08/09/2023

Each

1

2

Cracking (RC and Other) General Comments

Bent 3	Pile 2						
Reinforced Concrete	Column						
Element Number	Element Name		CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205 Reinfor	ced Concrete Column	1	0	0	1	0 Ea	ch
Element Number Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
205 Cracking (RC and Other)	4 FOOT X UP TO 1/16 INCH VER EAST FACE NEAR BOTTOM OF (3	1	1	Each
205 Delamination/Spall	(not found 2023) South face of pile foot x 6 foot]	, delamination [2		1			Each
General Comments							
Bent 4	Cap 1						
Bent 4 Reinforced Concrete	· · ·						
	· · ·	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinforced Concrete Element Number	Pier Cap						et
Reinforced Concrete Element Number	e Pier Cap Element Name	Qty 30	Qty	Qty	Qty	Qty	et
Reinforced Concrete Element Number 234 Reinfor Element	Pier Cap Element Name cced Concrete Pier Cap	Qty 30 iption H VERTICAL	Qty	Qty 12	Qty 1	Qty 0 Fe Maint Qty	et Feet

Bent 4		Pile 1						
Reinfor	ced Concrete	Column						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	1	0	0 Each	
Element Number	Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
✓ 205 Dela	amination/Spall	on east and west faces, delamin x 2 foot] with cracks (up to 1/32 i	• •		2	1	1 Each	

General Comments

Bent 4

Pile 2

Reinforced Concrete Column

	ement mber Reinfor	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0 Each
Elemer Numbe	Defect Turne	Defect Descr	ption		CS	CS Qty	Maint Qty
✓ 205	Cracking (RC and Other)	along length of the column, multiple [5 foot x 1/64 inch]	vertical cracks		2	1	Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1071
Span 1	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 1	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 1	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 1	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	34
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	34
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	952
Span 1	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1071
Span 2	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 2	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 2	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 2	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	34
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	34
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	34
Span 2	Expansion Joint 1	Standard Joint	Pourable Joint Seal	31
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	952
Span 2	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1733
Span 3	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 3	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 3	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 3	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 3	Expansion Joint 2	Standard Joint	Pourable Joint Seal	31
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1540
Span 3	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 2	Fixed Bearing	Fixed Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Route Sign	Other warning sign	Other Warning Signs	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1733
Span 4	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 4	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 4	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 4	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	55
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 4	Expansion Joint 3	Standard Joint	Pourable Joint Seal	31
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1540
Span 4	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 4	Low Vertical Clearance Sign 1	Other warning sign	Other Warning Signs	1
Span 4	Low Vertical Clearance Sign 2	Other warning sign	Other Warning Signs	1
Span 4	Route Sign	Other warning sign	Other Warning Signs	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1575
Span 5	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 5	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 5	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 5	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	54
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 5	Expansion Joint 4	Standard Joint	Pourable Joint Seal	31
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 5	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30

Elements Verfied

Location	Name	Component	Element Name	Amount
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	39
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	39
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110106

Inspection Date: 08/09/2023

National Bridge Inventory Items

Item	Grade Scale	Grade	
Item 58: Deck	0 - 9 , N	6	Note:
Item 59: Superstructure	0 - 9 , N	5	Items 5
Item 60: Substructure	0 - 9 , N	6	inspecti
Item 61: Channel and Channel Protection	0 - 9 , N	N	For ove see cov
Item 62: Culvert	0 - 9 , N	N	
Item 71: Waterway Adequacy	0 - 9 , N	N	
Item 72: Approach Roadway Alignment	0 - 9 , N	8	

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

or 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	Р	7183	3376
Drainage System	G, F, P, or C	Р	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C			
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
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	Y
Inspection Time	Hours	7
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N
Portion of Structure in > 3' of water	YES/NO	Ν

National Bridge and NC SMU Inspection Item Details

Structure Number: 110106

Inspection Date: 08/09/2023

ltem	Deck Debris	Grade	Р	Maint Code	3376	Qty.	7183
Details	along both curblines, debris accumulation (up to 29 inch drainage	x full lenç	gth) with ve	getation grow	th; fully ob	ostructin	g deck
ltem	Drainage System	Grade	Ρ	Maint Code	3332	Qty.	0
Details	see deck debris						
ltem	General Comments and Misc Items	Grade		Maint Code	•	Qty.	0
Detaile	(DAD) couthwast guardrail termination impact demogra						

Details (PAR) southwest guardrail termination, impact damage

Date: 08/09/2023

Condition Photos



Span 1 Beam 1 - Near Bearing 1: (not found 2023) active corrosion with section loss [up to 1/16 inch] on plates



Span 1 Beam 1: TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT

Structure: 110106

County: BURKE

Date: 08/09/2023



Span 1 Beam 4 - Near Bearing 4: corrosion with section loss (up to 1/8 inch deep)



(PAR) southwest guardrail termination, impact damage

Date: 08/09/2023

Condition Photos



along both curblines, debris accumulation (up to 29 inch x full length) with vegetation growth; fully obstructing deck drainage



Span 1 Wearing Surface: along length of asphalt over end bent 1, transverse cracks [up to 1/4 inch x full roadway width] with edge spalling up to (1/2 inch deep) and associated sound patch [4 foot x 8 inch]

Span 1 Wearing Surface: (PAR) at centerline of roadway, pothole (14 inch x 4 inch x 3 inch deep)



Span 1 Wearing Surface: near end bent 1, northbound lane, patched area (12 inch x 14 inch) with adjacent map cracks (up to 1/16 inch x 2 foot x 2 foot)

County: BURKE

Date: 08/09/2023

Date: 08/09/2023



Span 1 Wearing Surface: MULTIPLE AREAS OF BROKEN ASPHALT/MAP CRACKING UP TO 1/16 INCH X 2 FOOT 10 FOOT SOUTHBOUND LANE 7 FOOT FROM WEST CURB



Span 1 Wearing Surface: MULTIPLE AREAS OF BROKEN ASPHALT/MAP CRACKING UP TO 1/16 INCH X 2 FOOT 10 FOOT SOUTHBOUND LANE 7 FOOT FROM WEST CURB

Date: 08/09/2023

Condition Photos



Span 2 Expansion Joint 1: along the length of the joint, joint material deteriorated/torn/missing at random



Span 2 Expansion Joint 1: along the length of the joint, joint material deteriorated/torn/missing at random

Structure: 11016 County: BURKE Date: 08/09/2023 Condition Photos

Span 1 Wearing Surface: (PAR) at bent 1, southbound lane, partially patched pothole (13 foot x 6 inch x full depth)



Span 2 Wearing Surface: (PAR) at bent 1, southbound lane, partially patched pothole (13 foot x 6 inch x full depth)

Structure: 11016 County: BURKE Date: 08/09/2023 Condition Photos

Span 2 Wearing Surface: Southbound lane, shallow pothole/patched area [12 foot long x up to 10 inch x up to 1/2 inch deep]



Span 2 Wearing Surface: throughout topside of deck, multiple transverse and longitudinal cracks [up to 16 inch x up to 1/4 inch]

Date: 08/09/2023



Span 2 Wearing Surface: (PAR) at bent 2, partially patched potholes (up to 16 inch x 6 inch x full depth)



Span 2 Wearing Surface: (PAR) at bent 2, partially patched potholes (up to 16 inch x 6 inch x full depth)

Date: 08/09/2023



Span 2 Left Bridge Rail: at 5th rail post from bent 1, top corner, spall [4 inch x 3 inch x up to 3/4 inch] no exposed reinforcing



Span 3 Expansion Joint 2: along the length of the joint, joint material deteriorated/torn/missing at random

Date: 08/09/2023

Condition Photos



Span 3 Expansion Joint 2: along the length of the joint, joint material deteriorated/torn/missing at random



Span 3 Wearing Surface: MAP CRACKING UP TO 1/4 INCH SOUTHBOUND LANE 3 FOOT FROM WEST CURB

Structure: 110106

County: BURKE

Date: 08/09/2023

Condition Photos



Span 3 Wearing Surface: SOUTHBOUND LANE NEAR BENT 3 UNSOUND PATCHED AREA (4 FOOT X 2 FOOT) WITH CRACKING AND EDGE SPALLING (UP TO FULL DEPTH)



Span 3 Wearing Surface: (PAR) at bent 3, southbound lane, pothole (2 foot x 9 inch x full depth)

Date: 08/09/2023

Condition Photos



Span 4 Left Bridge Rail: at bent 3 top of curb, spall [3 inch x 11 inch x up to 3/4 inch] no exposed rusted reinforcing



Span 4 Wearing Surface: 1 FOOT DIAMETER PATCH SOUTHBOUND LANE BENT 3.

Date: 08/09/2023

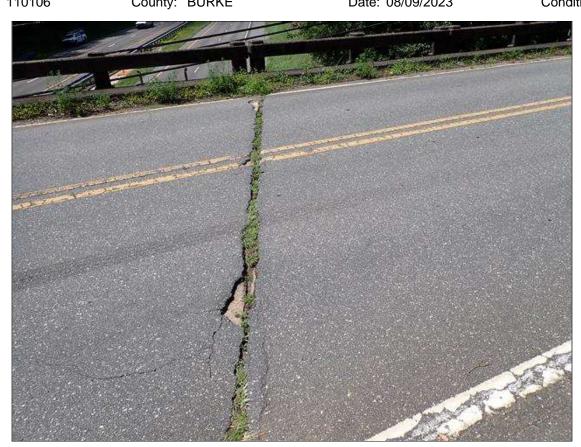
Condition Photos



Span 4 Wearing Surface: MAP CRACKING UP TO 1/4 INCH AT RANDOM THROUGHOUT TOPSIDE OF DECK



Span 4 Wearing Surface: (PAR) at bent 4, (3) potholes (up to 3 foot x 8 inch x full depth)



Span 5 Wearing Surface: (not found 2023) 31 INCH X UP TO 1 FOOT X 1 INCH FULL DEPTH POT HOLE OVER BENT 4



Span 5 Wearing Surface: along length of asphalt over end bent 2, transverse cracks [up to 1/4 inch x full roadway width]

Date: 08/09/2023

Date: 08/09/2023



Span 5 Left Bridge Rail: at 1st rail post, spall [3 inch diameter x up to 1 inch deep] with exposed rusted reinforcing [no section loss noted]



Span 5 Beam 1 - Far Bearing 1: active corrosion with section loss [up to 1/8 inch] on plates

Date: 08/09/2023



Span 5 Beam 1: VERTICAL CRACKS AND TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/32 INCH AT RANDOM THROUGHOUT



Span 5 Beam 4 - Far Bearing 4: active corrosion with section loss [up to 1/8 inch] on plates

Structure: 110106

County: BURKE

Date: 08/09/2023

Condition Photos



Span 5 Beam 1: span 5 bay 1 near diphragm failed patch with crack (up to 1/4 inch x full width)



Span 1 Beam 1: West face at bent 1, spall/delamination [12 inch x 3 inch x 1 inch deep] with exposed rusted rebar

Date: 08/09/2023



Span 1 Beam 1: (PAR) at bent 1, east face, failed patch (19 inch x full height x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)



Span 1 Beam 1 - Far Bearing 1: active corrosion with section loss [up to 1/8 inch] on plates



Span 2 Beam 1 - Near Bearing 1: corrosion with section loss (up to 1/8 inch)



Span 2 Beam 1: east face at bent 1, delamination (32 inch x 18 inch) with cracks (up to 1/32 inch)

Date: 08/09/2023

Condition Photos



Span 1 Beam 1: (PAR) at bent 1, east face, bottom of beam, spall (full width x 5 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)



Span 1 Beam 2: east face at bent 1, multiple spalls/delaminations (up to 10 inch x 11 inch x 1/2 inch deep) with exposed rusted rebar

Structure: 110106

County: BURKE

Date: 08/09/2023



Span 1 Beam 4 - Near Bearing 4: corrosion with section loss (up to 1/8 inch deep)



Span 1 Beam 4: at bent 1, west face, delamination (8 inch x 6 inch) with cracks (up to 1/16 inch)

Date: 08/09/2023



Span 2 Beam 4: at bent 1, west face, (2) delaminations/spalls (up to 3 inch x 2 foot x 1/2 inch deep) with exposed rusted rebar and adjacent cracks (up to 1/32 inch)



Bent 1 Cap 1: (PAR) 2 FOOT X UP TO 16 INCH X 3 INCH DEEP SPALL WITH EXPOSED RUSTED PRIMARY REINFORCING [SECTION LOSS UP TO 1/8 INCH] AT SOUTHWEST CORNER

Date: 08/09/2023

Condition Photos



Bent 1 Cap 1: (PAR) 6 INCH DIAMETER X 1 INCH SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT SECTION LOSS SOUTH FACE UNDER BEAM 1



Bent 1 Cap 1: (3) UP TO 3 FOOT X 1/16 INCH HORIZONTAL CRACKS SOUTH AND NORTH FACE BAY 1

Date: 08/09/2023

Condition Photos



Bent 1 Cap 1: (3) UP TO 3 FOOT X 1/16 INCH HORIZONTAL CRACKS SOUTH AND NORTH FACE BAY 1



Bent 1 Pile 1: at top of column, southwest corner, delamination (3 foot x 11 inch); southeast corner, vertical crack (up to 1/16 inch x 2 foot)

Date: 08/09/2023



Bent 1 Pile 1: at top of column, southwest corner, delamination (3 foot x 11 inch); southeast corner, vertical crack (up to 1/16 inch x 2 foot)



Bent 1 Cap 1: south face, west end, (2) delaminations (up to 13 inch x 19 inch)

Date: 08/09/2023

Condition Photos



Span 2 Beam 4: (PAR) at bent 2, west face and underside, multiple spalls/delaminations (up to 21 inch x 5 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)



Span 2 Beam 4: (PAR) at bent 2, west face and underside, multiple spalls/delaminations (up to 21 inch x 5 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)

Date: 08/09/2023



Span 3 Beam 4: (PAR) west face web and underside at bent 2, spall/delamination [30 inch x up to full height x up to 2 inch deep] with exposed rusted primary reinforcing [approximately 25 percent loss]



Bent 2 Cap 1: 3 FOOT X UP TO 3 FOOT PATCHED AREA SOUTH FACE UNDER BAY 3 NEAR BEAM 4

Date: 08/09/2023

Condition Photos



Span 2 Beam 3: at bent 2, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar



Bent 2 Cap 1: 3 FOOT X UP TO 1/64 INCH HORIZONTAL CRACK WITH EFFLORESCENCE AND ADJACENT 3 FOOT X 8 INCH X 4 INCH DELAMINATION ON TOP SOUTHEAST CORNER

Date: 08/09/2023



Span 3 Beam 3: west face at bent 2, spall [14 inch x up to 8 inch x 1 inch deep] with exposed rusted reinforcing [no loss noted]; underside at bent 2 bearing, spall [4 inch x 4 inch x 1/2 inch deep] with exposed rusted reinforcing [no loss noted]

Date: 08/09/2023

Condition Photos



Span 2 Beam 2: at bent 2 bay 2 end diaphragm, spall [22 inch x 3 inch x 3 inch with exposed rusted reinforcing [no loss noted] with cracks [up to 1/16 inch]



Span 2 Beam 2: at bent 2, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar

Date: 08/09/2023

Condition Photos



Span 3 Beam 1: east face web at bent 2, spall [12 inch x 2 inch x 1/2inch deep] with exposed rusted reinforcing



Span 3 Beam 1: east face web at bent 2, delamination [12 inch x 10 inch]

Date: 08/09/2023

Condition Photos



Span 3 Beam 1: (PAR) east face lower web at 5 foot from bent 2, delamination, 5 foot x up to 24 inch high, over right shoulder of I-40 eastbound lane

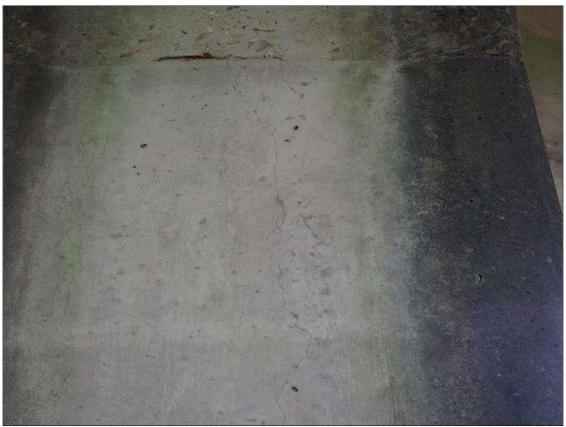


Bent 2 Pile 1: base of column at northeast corner, spall [16 inch x 8 inch x 2 inch deep] with exposed rusted primary reinforcing [no loss noted]

Date: 08/09/2023



Bent 2 Cap 1: WEST END. HAS SCATTERED AREAS THAT ARE CRACKED UP TO 1/32 INCH AND DELAMINATED WITH SOME POP-OUTS UP TO 1/2 INCH DEEP



Bent 2 Pile 1: 7 FOOT X UP TO 1/32 INCH VERTICAL CRACKS NEAR BOTTOM OF CAP

Date: 08/09/2023



Span 3 Beam 1: at bent 3, east face, spall/delamination (8 inch x 12 inch x 1/2 inch deep); underside, spall (4 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar



Span 3 Beam 1: at bent 3, east face, spall/delamination (8 inch x 12 inch x 1/2 inch deep); underside, spall (4 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar

Date: 08/09/2023

Condition Photos



Span 3 Beam 1 - Far Bearing 1: corrosion with section loss (up to 1/16 inch)



Span 3 Beam 2: 2023 previously repaired, patch (7 inch x 2 foot), previously noted as: West face at bent 3, delamination/spall [5 inch x 3 foot high x up to 3/4 inch deep] with exposed rusted reinforcing no section loss

Date: 08/09/2023

Condition Photos



Span 3 Beam 2: at bottom of beam west face at bent 3, delamination (5 inch x 4 inch) with cracks (up to 1/16 inch)

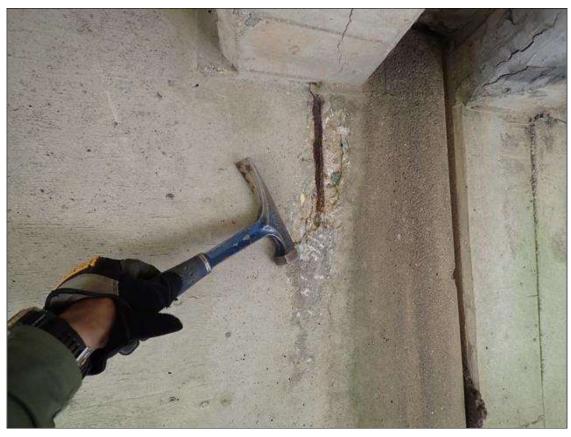
Date: 08/09/2023

Condition Photos



Span 4 Beam 1: 2023 NEW REPAIR, PATCHED AREAS (UP TO 2.5 FOOT X FULL WIDTH), PREVIOUSLY NOTED AS: LONGITUDINAL CRACKS [UP TO 3 FOOT X UP TO 1/8 INCH] ON BOTTOM FACE AT BENT 3 WITH ASSOCIATED DELAMINATION THAT WRAPS AROUND TO EAST FACE [3 FOOT X 5 FOOT]

Date: 08/09/2023



Span 3 Beam 2: east face at bent 3, delamination/spall [3 inch x 1 foot x up to 3/4 inch deep] with exposed rusted reinforcing no section loss



Span 4 Beam 3: west face at bent 3, delamination [16 inch diameter] with cracks [up to 1/32 inch]

County: BURKE

Date: 08/09/2023

Condition Photos



Bent 3 Cap 1: along the length of the cap, vertical cracks (up to 1/64 inch x full height) and longitudinal cracks (up to 1/32 inch x 6 foot) at random



Bent 3 Cap 1: along the length of the cap, vertical cracks (up to 1/64 inch x full height) and longitudinal cracks (up to 1/32 inch x 6 foot) at random

Date: 08/09/2023

Condition Photos



Span 4 Beam 3: 2023 PREVIOUSLY REPAIRED, PATCHED AREA (7 INCH X 2 FOOT) WITH CRACKS (UP TO 1/32 INCH),(PREVIOUSLY NOTED AS: EAST FACE AT BENT 3, DELAMINATION/SPALL [5 INCH X UP TO 4 FOOT X 3/4 INCH DEEP] WITH EXPOSED RUSTED REINFORCING NO SECTION LOSS

Date: 08/09/2023



Span 3 Beam 4 - Far Bearing 4: corrosion with section loss (up to 1/8 inch)

County: BURKE

Date: 08/09/2023

Condition Photos



Span 4 Beam 4: 2023 previously repaired, partially sound patches (up to 17 inch x 11 inch x 1 inch deep), previously noted as: West face at bent 3, delamination/spall [4.5 foot x 2 foot x 1.25 inch deep] with (3) exposed rusted reinforcing [section loss up to 1/32 inch]

County: BURKE

Date: 08/09/2023

Condition Photos



Bent 3 Cap 1: north face under beam 4 delamination [2.5 foot x 1.5 foot] with associated map cracking [up to 1/64 inch] and honeycombing

Date: 08/09/2023

Condition Photos



Bent 3 Cap 1: 2023 PREVIOUSLY REPAIRED, PATCHED AREA (3 FOOT X 12 INCH), PREVIOUSLY NOTED AS: 9 INCH X FULL HEIGHT X 10 INCH SPALL WITH EXPOSED RUSTED REINFORCING [SECTION LOSS UP TO 1/16 INCH] NORTH WEST CORNER BENT 3

Date: 08/09/2023

Condition Photos



Bent 3 Pile 1: FULL HEIGHT X UP TO 2 FOOT X 1 INCH DEEP AREA OF HONEYCOMBING WEST FACE



Bent 3 Pile 1: along length of the column, vertical cracks (up to 1/32 inch x full height) at random

Date: 08/09/2023



Bent 3 Pile 2: 4 FOOT X UP TO 1/16 INCH VERTICAL CRACK EAST FACE NEAR BOTTOM OF CAP



Bent 3 Pile 2: (not found 2023) South face of pile, delamination [2 foot x 6 foot]

County: BURKE

Date: 08/09/2023

Condition Photos



Span 4 Beam 1: 2023 NEW REPAIR, PATCHED AREAS, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 EAST FACE LOWER WEB OVER I-40 LEFT WESTBOUND LANE, TWO [2] SPALLS/IMPACT DAMAGE [UP TO 14 INCH X FULL WIDTH X 6 INCH] WITH ADJACENT DELAMINATION [UP TO 10 INCH X 8 INCH]

Date: 08/09/2023



Span 4 Beam 1: 2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 11/23/2021 [PAR] EAST FACE LOWER WEB OVER I-40 RIGHT WESTBOUND LANE, SPALL/IMPACT DAMAGE [14 FOOT X UP TO FULL WIDTH X UP TO 15 INCH UP BOTH FACES X UP TO 3.5 INCH DEEP] WITH MULTIPLE EXPOSED RUSTED PRIMARY REINFORCING [SECTION LOSS UP TO 1/16 INCH] WITH ADJACENT DELAMINATIONS [UP TO 18 INCH X 10 INCH]

Date: 08/09/2023

Condition Photos



Span 4 Beam 2: 2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : 2 - UP TO 1.5 FOOT X 10 INCH X 6 INCH SPALLS EAST AND BOTTOM FACE OVER WESTBOUND LANE

Date: 08/09/2023

Condition Photos



Span 4 Beam 3: 2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : 4 FOOT X UP TO 10 INCH X 4 INCH SPALL WITH EXPOSED REINFORCING EAST AND BOTTOM FACE OVER WESTBOUND LANE

County: BURKE

Date: 08/09/2023

Condition Photos



Span 4 Beam 4: 2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 UNDERSIDE OVER I-40 RIGHT WESTBOUND LANE, MULTIPLE SPALLS/AREAS IMPACT DAMAGE [UP TO 3 INCH X 2 INCH X 1/2 INCH DEEP]

Date: 08/09/2023



Span 4 Beam 1: 2023 PREVIOUSLY REPAIRED, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : 9 INCH X 14 INCH X 3/4 INCH SPALL WITH EXPOSED RUSTED REINFORCING NO SECTION LOSS WEST FACE AT BENT 4

Date: 08/09/2023



Span 5 Beam 3: west face at bent 4, spall/delamination [2 foot x 3 inch wide x 1/2 inch deep]



Span 5 Beam 2 - Near Bearing 2: surface rust/rust scale

Date: 08/09/2023



Span 4 Beam 3: (not found 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : SPALL AT FAR END ABOVE interior. BENT 4 , 4 INCH LONG X 4 INCH WIDE X 1 INCH DEEP.



Span 4 Beam 4: at bent 4, west face, delamination (3 inch x 16 inch)

County: BURKE

Date: 08/09/2023



Bent 4 Cap 1: (PAR) 16 INCH X UP TO 1/32 INCH VERTICAL CRACK WITH RUST STAIN NORTH FACE UNDER BEAM 1



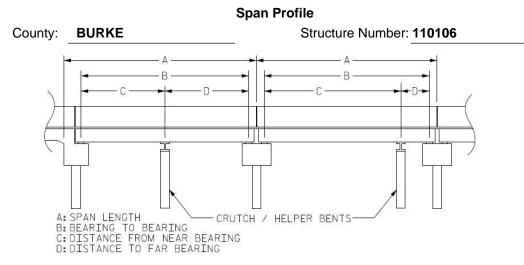
Bent 4 Pile 1: on east and west faces, delamination [up to 4.5 foot x 2 foot] with cracks (up to 1/32 inch)

Date: 08/09/2023



Span 5 Beam 1: SPAN 5 BEAM 1 WEST FACE WEB OVER BENT 4. HAS A CRACKED AND DELAMINATED AREA. AREA IS: 24 INCH X 32 INCH

Structure Data Worksheet



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	34.000	31.958			
2	34.000	32.667			
3	55.000	53.750			
4	55.000	53.750			
5	50.000	48.000			



roadway under span 3, looking east

Route Number: 110004	400	Route Na	ime: I	1 40 E	Reference Feature:	Н		
Minimum Vertical Clear								
Total Horizontal Clearance 40.070 feet Lateral Clearances: Left: 12.980 feet Right 10.010 feet								
Base Highway Network LRS Inventory Route, Sub Route Number 10040								
Milepost: 98.980	Number	of Lanes:	2	ADT: 16000	Year of A	DT: 2015	Percentage of Trucks:	16
✓ National Highway System STRAHNET Highway Designator								
Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic								

Span: 4



roadway under span 4, looking west

Route Number: 11000	400	Route Nan	ne: I	40W	Reference Feature:	Н			
Minimum Vertical Clear									
Total Horizontal Clearance 41.050 feet Lateral Clearances: Left: 13.440 feet Right 10.000 feet									
✓ Base Highway Netwo									
Milepost: 98.980	Number	of Lanes: 2	2	ADT: 16000	Year of A	DT: 2015	Percentage of Trucks:	16	
✓ National Highway System									
Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic									

Bridge Inspection Field Sketch

Roadway	22.833ft Wide	2 Paved Lanes	Looking North
Left Shoulder	8.5ft Wide	.5ft Paved	8ft Unpaved
Right Shoulder	8.5ft Wide	.5ft Paved	8ft Unpaved
Left Guardrail			
Right Guardrail			

measurements taken 200ft from end bent 1

Title	Description						
APPROACH ROADWAY	LOOKING NORTH						
Structure No: 110106	Drawn By:	HABonilla		Date:	8/9/2023	Filename:	S000906000211.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	Betwee	Between Rails					
Clear Roadway	28ft	Wearin	Wearing Surface 1				
Median Width		Median	Median Height				
Curb Height			Left 8in Right 8in				
Sidewalk Width			Left 1.667ft Right 1.667ft			67ft	
Clear Roadway (Rail to Median)		Left		Right			
Guardrail Width			8in	Right	8in		
Top of Rail to Deck/Wearing Surface			Left 2.5ft Right 2.5		ft		
Bridge Rail Type			Type 11	Right	Тур	e 11	

Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	7in	Left Overhang	4.75ft
Top of Rail to Bottom of Beam (Avg)	7.083ft	Right Overhang	4.75ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Reinforced Concrete Girder	18in	48in	4.75ft	Left Edge of Deck
2	Reinforced Concrete Girder	18in	48in	8ft	Beam 1
3	Reinforced Concrete Girder	18in	48in	8ft	Beam 2
4	Reinforced Concrete Girder	18in	48in	8ft	Beam 3

Title TYPICAL SECTION SKETCH			Descriptio LOOKIN		ТН		
Structure No: 110106	Drawn By:	HABonilla		Date:	8/9/2023	Filename:	S000906000212.wes

		Bri	dge Insp	0	ec	ti	on	Fi	eld	Ske	etc	h	
Сар													
	Name Cap 1	Type		Le 30	ength	Wid 36in		leight 14in	Left Beam to 1.833ft	End of Ca	Rigl 3ft		to End of Cap
Piles		Reinin		30	Л	2011	1 4	***111	1.65510		JIL		
# 1	Name		Туре		Spacing]	From			Height/Dia	am. Wi	idth	Length
1 F	Pile 1		Reinforced Concrete Colum	n	5ft		Left En	nd of Bent	t	36in	36	in	9ft
2 F	Pile 2		Reinforced Concrete Colum	าท	20ft		Pile 1			36in	36	in	9ft
Title						De	scriptio	on					
BENT	SKETCH					L	OOKIN	IG NOR					
Structure	e No: 110106		Drawn By: HABonilla					Date:	8/9/2023	File	ename:	S00090	6000213.wes

Date: 08/09/2023

Structure Photos



west profile looking east



roadway under span 3, looking east

County: BURKE

Date: 08/09/2023

Structure Photos



bent 1



bent 3

Date: 08/09/2023



superstructure underside



intermediate diaphragm

County: BURKE

Date: 08/09/2023

Structure Photos



east profile looking west



Date: 08/09/2023

Structure Photos



end bent 1 and slope protection



southeast wingwall

County: BURKE

Date: 08/09/2023

Structure Photos



end bearing assembly



interior bearing assembly

County: BURKE

Date: 08/09/2023

Structure Photos



southwest wingwall



south approach looking north

County: BURKE

Date: 08/09/2023

Structure Photos



southeast guardrail



southeast guardrail termination

Date: 08/09/2023

Structure Photos



southwest guardrail termination



southwest guardrail

County: BURKE

Date: 08/09/2023

Structure Photos



southwest guardrail attachment



southeast guardrail attachment

County: BURKE

Date: 08/09/2023

Structure Photos



southeast guardrail transition



end bent 1 asphalt

County: BURKE

Date: 08/09/2023



bent 1 joint



asphalt wearing surface

Date: 08/09/2023



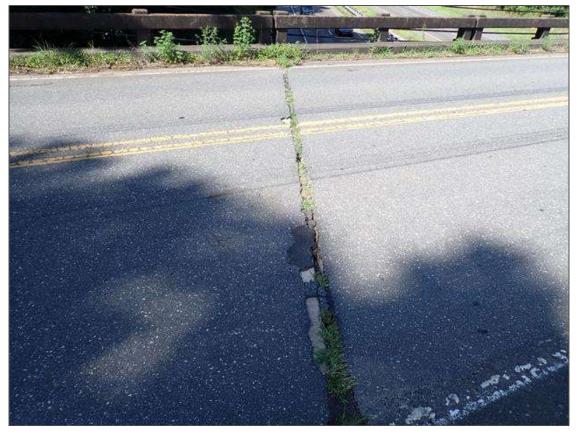
right bridge rail



left bridge rail



south approach looking south



Date: 08/09/2023



roadway looking east



roadway looking west

County: BURKE

Date: 08/09/2023



bent 3 joint



north approach looking north

County: BURKE

Date: 08/09/2023



bent 4 joint



northeast guardrail attachment

County: BURKE

Date: 08/09/2023

Structure Photos



northwest guardrail attachment



northwest guardrail transition

Date: 08/09/2023

Structure Photos



northwest guardrail



northeast guardrail

Date: 08/09/2023

Structure Photos



northwest guardrail termination



north approach looking south

County: BURKE

Date: 08/09/2023



end bent 2 asphalt



northwest wingwall

Date: 08/09/2023

Structure Photos



end bent 2 and slope protection



County: BURKE

Date: 08/09/2023



northeast wingwall



roadway under span 4, looking west

Date: 08/09/2023

Structure Photos



span 4 beam 4 route sign closeup



ladder used

County: BURKE

Date: 08/09/2023

Structure Photos



end diaphragm



bridge number

Date: 08/09/2023

Structure Photos



beams over bent



I-40 westbound lane vertical clearance signs approximately 2000 foot from bridge