NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request; sketches revised; span 3 total horizontal clearances revised; new repairs

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110129 **SAP STRUCTURE NO:** 0120129 **FHWA STRUCTURE NO:** 000000000230129

DIVISION: 13 **COUNTY:** BURKE **INSPECTION DATE:** 08/17/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1102 **MILE POST:**

LOCATION: .1 MI.S.JCT.SR1159

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 5.7" **LONGITUDE:** 81° 43' 57.64"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT.BTS:RCP&B/PILE FOOTINGS

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) **DECK** 6 / 6 **SUPERSTRUCTURE** 5 / 5 **SUBSTRUCTURE** 5 / 5 **CULVERT** N / N

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: none

south approach looking north

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Hector Bonilla	Hector Bonilla	Juan Rodriguez

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

11/09/2023

IDENTIFICATION

(1) STATE NAME	NORTH CAROLINA	BRIDGE	**110129**
(8) STRUCTURE NUMBER (FEDERAL)			**0230129**
(5) INVENTORY ROUTE (ON/UNDER)	ON		**31011020**
(2) STATE HIGHWAY DEPARTMENT DISTRICT			**13**
(3) COUNTY CODE (FEDERAL)	**23**	(4) PLACE CODE	**44400**
(6) FEATURE INTERSECTED	**I-40**		
(7) FACILITY CARRIED	**SR1102**		
(9) LOCATION	**.1 MI.S.JCT.SR1159**		
(11) MILEPOINT			**0.0**
(12) BASE HIGHWAY NETWORK			**0**
(13) LRS INVENTORY ROUTE & SUBROUTE			**0**
(16) LATITUDE	**35° 43' 5.7"**	(17) LONGITUDE	**81° 43' 57.64"**
(98) BORDER BRIDGE STATE CODE		PERCENT SHARED	
(99) BORDER BRIDGE STRUCTURE NUMBER			

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN			**Steel**
TYPE	**Stringer/Multi-beam or girder**	CODE	**302**
(44) STRUCTURE TYPE APPROACH			
TYPE		CODE	
(45) NUMBER OF SPANS IN MAIN UNIT			**4**
(46) NUMBER OF SPANS IN APPROACH			**0**
(107) DECK STRUCTURE TYPE		CODE	**1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM			
(A) TYPE OF WEARING SURFACE		CODE	**6**
(B) TYPE OF MEMBRANE		CODE	**0**
(C) TYPE OF DECK PROTECTION		CODE	**0**

AGE AND SERVICE

(27) YEAR BUILT			**1956**
(106) YEAR RECONSTRUCTED			**0**
(42) TYPE OF SERVICE ON -			**Highway**
OFF -	**Highway**	CODE	**11**
(28) LANES ON STRUCTURE	**2**	LANES UNDER STRUCTURE	**4**
(29) AVERAGE DAILY TRAFFIC			**2000**
(30) YEAR OF ADT	**2019**	(109) TRUCK ADT PCT	**6**
(19) BYPASS OR DETOUR LENGTH			**7.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN			**69.0**
(49) STRUCTURE LENGTH			**272.0**
(50) CURB OR SIDEWALK: LEFT	**1.6**	RIGHT	**1.6**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB			**28.0**
(52) DECK WIDTH OUT TO OUT			**33.5**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS)			**25.0**
(33) BRIDGE MEDIAN		CODE	**5**
(34) SKEW	**42**	(35) STRUCTURE FLARED	**0111**
(10) INVENTORY ROUTE MIN VERT CLEAR			**999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			**0.0**
(53) MIN VERT CLEAR OVER BRIDGE RDWY			**999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE	**H**		**14.7**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE	**H**		**11.0**
(56) MIN LAT UNDERCLEARANCE LT:			**12.8**

NAVIGATION DATA

(38) NAVIGATION CONTROL -	CODE	**5**
(111) PIER PROTECTION	CODE	
(39) NAVIGATION VERTICAL CLEARANCE		**0.0**
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR		**0.0**
(40) NAVIGATION HORIZONTAL CLEARANCE		**0.0**

SUFFICIENCY RATING	**76.07**
STATUS =	

CLASSIFICATION

		CODE
(112) NBIS BRIDGE SYSTEM		**Y**
(104) HIGHWAY SYSTEM	**Inventory Route not on NHS**	**0**
(26) FUNCTIONAL CLASS	**Urban Minor Collector**	**16**
(100) STRAHNET HIGHWAY	**Not a STRAHNET Route**	**0**
(101) PARALLEL STRUCTURE		**0**
(102) DIRECTION OF TRAFFIC	**2-way traffic**	**2**
(103) TEMPORARY STRUCTURE		
(110) DESIGNATED NATIONAL NETWORK -	**on national network for trucks**	**0**
(20) TOLL	**On Free Road**	**3**
(21) MAINT -		**01**
(22) OWNER -		**01**
(37) HISTORICAL SIGNIFICANCE -		**5**

CONDITION

	CODE
(58) DECK	**6**
(59) SUPERSTRUCTURE	**5**
(60) SUBSTRUCTURE	**5**
(61) CHANNEL & CHANNEL PROTECTION	**N**
(62) CULVERTS	**N**

LOAD RATING AND POSTING

		CODE
(31) DESIGN LOAD	**HS 15**	**3**
(63) OPERATING RATING METHOD -	**Load Factor**	**1**
(64) OPERATING RATING -	**HS-41**	**74**
(65) INVENTORY RATING METHOD -		**1**
(66) INVENTORY RATING	**HS-24**	**44**
(70) BRIDGE POSTING	**No Posting Required**	**5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED		**A**
DESCRIPTION	**Open, no restriction**	

APPRAISAL

	CODE
(67) STRUCTURAL EVALUATION	**5**
(68) DECK GEOMETRY	**N**
(69) UNDERCLEARANCES, VERT & HORIZ	**3**
(71) WATERWAY ADEQUACY	**N**
(72) APPROACH ROADWAY ALIGNMENT	**8**
(36) TRAFFIC SAFETY FEATURES	**N**
(113) SCOUR CRITICAL BRIDGES	**N**

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK	CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT	
(94) BRIDGE IMPROVEMENT COST	
(95) ROADWAY IMPROVEMENT COST	
(96) TOTAL PROJECT COST	
(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(114) FUTURE ADT **4,000**	YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE	**08/23**	(91) FREQUENCY	**24**
(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE	
A) FRACTURE CRIT DETAIL		A)	
B) UNDERWATER INSP		B)	
C) OTHER SPECIAL INSP		C)	
SCOUR			

Structure Number **110129** County **BURKE** Run Date **11/09/2023**

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 Traffic	Total Horizontal Clearance	*See Note Below*					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EBL	11000400	14.8	100.9	1	10040	11	2	17000	2015	43.0	H	14.7	11.0	12.8	3		1	☐	☐
3	I 40 W	11000400	15.8	100.9	1	10040	11	2	17000	2015	42.5	H	15.4	10.0	13.6	4		1	☐	☐

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

Superstructure Build Details

Span Number 1 **Span Length** 62.000 **Skew** 48.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	124 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1736 Square Feet		
1	Standard Joint	Pourable Joint Seal	48 Feet		
4	Plate Girder	Steel Open Girder/Beam	248 Feet	Legacy Non Lead Primer System with various Topcoats	2412
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1953 Square Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4

Span Number 2 **Span Length** 70.000 **Skew** 48.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	140 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1960 Square Feet		
1	Standard Joint	Pourable Joint Seal	48 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2205 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	280 Feet	Legacy Non Lead Primer System with various Topcoats	2740

Span Number 3 **Span Length** 70.000 **Skew** 48.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1960 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	140 Feet		

Superstructure Build Details

4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Standard Joint	Pourable Joint Seal	48	Feet		
4	Plate Girder	Steel Open Girder/Beam	280	Feet	Legacy Non Lead Primer System with various Topcoats	2740
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2205	Square Feet		

Span Number 4 **Span Length** 70.000 **Skew** 48.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	140	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1960	Square Feet		
4	Plate Girder	Steel Open Girder/Beam	276	Feet	Legacy Non Lead Primer System with various Topcoats	2720
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Standard Joint	Pourable Joint Seal	48	Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2205	Square Feet		

Structure Element Scoring

Structure Number: **110129**

Inspection Date **8/17/2023**

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	8,568	8,064	502	2	0
107		Steel Open Girder/Beam	Beam	1,084	1,007	47	29	1
515	107	Steel Protective Coating	Beam	10,612	10,585	0	0	27
205		Reinforced Concrete Column	Piles and Columns	9	5	3	1	0
215		Reinforced Concrete Abutment	Abutments	90	82	0	8	0
220		Reinforced Concrete Pile Cap/Footing	Footing	15	15	0	0	0
226		Prestressed Concrete Pile	Piles and Columns	12	12	0	0	0
234		Reinforced Concrete Pier Cap	Caps	208	120	64	24	0
301		Pourable Joint Seal	Expansion Joints	192	192	0	0	0
311		Movable Bearing	Bearing Device	16	0	13	3	0
515	311	Steel Protective Coating	Bearing Device	16	0	1	3	12
313		Fixed Bearing	Bearing Device	16	2	4	10	0
515	313	Steel Protective Coating	Bearing Device	16	4	0	0	12
331		Reinforced Concrete Bridge Railing	Bridge Rail	544	533	11	0	0
510		Wearing Surface	Wearing Surfaces	7,616	4,615	8	2,993	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110129** Inspection Date: **08/17/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	5 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	497 Square Feet
3314	Steel Open Girder/Beam	Corrosion	10 Feet
3348	Reinforced Concrete Column	Delamination/Spall	2 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	8 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	23 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	6 Feet
3334	Movable Bearing	Corrosion	2 Each
3334	Fixed Bearing	Corrosion	10 Each
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	6 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	5 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	18 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	2975 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	55 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110129** Inspection Date **08/17/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	30	1084	1.000	29.000	47.000	1007.000
Beam	3342	Clean and Paint Steel	27	10612	27.000	0.000	0.000	10585.000
Bearing Device	3334	Bridge Bearing	3	16	0.000	3.000	13.000	0.000
Bearing Device	3334	Bridge Bearing	10	16	0.000	10.000	4.000	2.000
Bearing Device	3342	Clean and Paint Steel	16	16	12.000	3.000	1.000	0.000
Bearing Device	3342	Clean and Paint Steel	12	16	12.000	0.000	0.000	4.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	11	544	0.000	0.000	11.000	533.000
Deck	3326	Maintenance of Concrete Deck	502	8568	0.000	2.000	502.000	8064.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	192	0.000	0.000	0.000	192.000
Wearing Surfaces	2816	Asphalt Surface Repair	2993	7616	0.000	2993.000	8.000	4615.000
Abutments	3350	Maintenance of Concrete Wings and Wall	8	90	0.000	8.000	0.000	82.000
Caps	3348	Maintenance of Concrete Substructure	29	208	0.000	24.000	64.000	120.000
Footing	3348	Maintenance of Concrete Substructure	0	15	0.000	0.000	0.000	15.000
Piles and Columns	3348	Maintenance of Concrete Substructure	2	9	0.000	1.000	3.000	5.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	12	0.000	0.000	0.000	12.000

Priority Actions Request

Structure Number **110129**

Span2

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Span 2 Deck: (PAR) west overhang over bent 1, spall (18 inch x 6 inch x 1/2 inch deep) with exposed rusted rebar

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	20	Span 2 Beam 1: (PAR) 2023 no apparent change: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN THE DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 8 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A 5 INCHES X 1/16 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 22 FEET 9 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A EIGHT INCHES X 1/16 INCHES AT 21 FEET 1 INCHES, A 8 INCHES X 1/16 INCHES AT 18 FEET 9 INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/16 INCHES AT 21 FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 27 FEET 2 INCHES FROM FACE OF BENT 1.

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	25	Span 2 Beam 4: (PAR) 2023 no apparent change; cracks not verified SUPPLEMENTAL INSPECTION 2022: POINT OF IMPACT 36 FEET 11 INCHES OUT FROM INTERIOR BENT 1 , 15 INCHES LONG BOTTOM FLANGE BENT UPWARD 1 INCH .THERE IS A 7 INCH LONG HAIRLINE CRACK IN THE WELD ATTACHING THE BOTTON COVER PLATE TO THE BOTTOM FLANGE LEFT SIDE AT 36 FEET 5 INCHES OUT FROM INTERIOR BENT 1. SCATTERED SCRAPS WITH UP TO 1 INCH INDENTIONS THROUGHOUT ON BOTTOM COVER PLATE . BEAM 4 SWEPT EASTWARD UP TO 2 INCHES. POSSIBLE HAIRLINE CRACK 1 INCH UP RIGHT FACE OF WEB UP TO 2 INCH LONG AT DIAPHRAM 3 ,23 FEET 3 INCHES FROM INTERIOR BENT 2 .

Span3

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 3: (PAR) at bent 3, web adjacent to end diaphragm, corrosion with section loss (7/16 inch average remaining x 10 inch x 2.5 inch)

3314 **Beam 4** Plate Girder

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Priority Actions Request

Structure Number **110129**

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	0	Span 3 Beam 4: (PAR) DIAPHRAGM OVER BENT 3 UNDER RIGHT OVERHANG, DELAMINATION/SPALL [FULL HEIGHT X 2 FOOT X 2 INCHES DEEP] WITH TWO [2] EXPOSED RUSTED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS

Approach Guardrail and Barriers

3120 **Approach Guardrail and Barriers** Approach Guardrail and Barriers

Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northeast guardrail termination, impact damage
2		5	(PAR) north approach asphalt wearing surface, northbound lane near end bent 2, broken asphalt (3 foot x 2 foot x 1.5 inch deep)

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Element Condition and Maintenance Data

Structure Number: **110129** Inspection Date: **08/17/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,953	1,833	120	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 12	Cracking (RC and Other)	ALONG BOTH OVERHANGS, TRANSVERSE CRACKS UP TO 1/32 INCH X FULL WIDTH	2	20	20	Square Feet
☑ 12	Cracking (RC and Other)	BOTTOM OF DECK HAS SCATTERED AREAS OF TRANSVERSE CRACKS UP TO 1/32 INCHES X FULL WIDTH SOME WITH EFFLORESCENCE AT RANDOM THROUGHOUT	2	100	100	Square Feet
☐ 12	Efflorescence/Rust Staining	DEFECT NOT FOUND 08/06/2019	1			Square Feet

General Comments

Span 1 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	62	60	2	0	0	Feet
515	Steel Protective Coating	603	601	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 107	Corrosion	at bent 1, web adjacent to end diaphragm, rust scale (13 inch)	2	2		Feet
☑ 515	Effectiveness (Steel Protective Coatings)	rust scale	4	2	2	Square Feet

General Comments

Span 1 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	62	60	2	0	0	Feet
515	Steel Protective Coating	603	601	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 107	Corrosion	at bent 1, web adjacent to end diaphragm, rust scale (13 inch)	2	2		Feet
☑ 515	Effectiveness (Steel Protective Coatings)	rust scale	4	2	2	Square Feet

General Comments

Span 1 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	62	58	4	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**331**	Exposed Rebar	(4) UP TO 5 INCHES DIAMETER X 1/2 INCHES SPALLS WITH EXPOSED REINFORCING 20 FEET FROM END BENT 1 NO SECTION LOSS	2	4	4	Feet

General Comments

Span 1 — Near 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	
☑	**313**	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing 1

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	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

General Comments

Span 1 — Far Bearing 2

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	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

General Comments

Span 1 Near Bearing 3

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	painted over pitting (up to 1/16 inch deep)	2	1		Each

General Comments

Span 1 Far Bearing 3

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	surface rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 Near Bearing 4

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	
☑ **313**	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 Far Bearing 4

Movable 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	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **311**	Corrosion	surface rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,736	1,083	0	653	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	35 FEET X UP TO 1/4 INCHES TRANSVERSE CRACK OVER END BENT 1	3	35	35	Square Feet
☑ **510**	Crack (Wearing Surface)	ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING UP TO 1/32 INCHES THROUGH OUT	3	600	600	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	ASPHALT WEARING SURFACE IS BROKEN UP/PARTIALLY PATCH AND DEPRESS IN A 4 FEET X 6 FEET X 1 INCH DEEP AREA 12 FEET FROM END BENT 1 AND 9 FEET FROM RIGHT CURB.	3	18	18	Square Feet

General Comments

Span 2 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,205	2,074	129	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	(PAR) west overhang over bent 1, spall (18 inch x 6 inch x 1/2 inch deep) with exposed rusted rebar	3	2	2	Square Feet
☑ **12**	Cracking (RC and Other)	SUPPLEMENTAL INSPCETION IMPACT DAMAGE 2022 , SCATTERED HAIRLINE CRACKING	2	4	2	Square Feet
☑ **12**	Cracking (RC and Other)	THROUGHOUT UNDERSIDE OF DECK, MULTIPLE TRANSVERSE CRACKS [UP TO FULL WIDTH X 1/32 INCH	2	125	125	Square Feet
☐ **12**	Efflorescence/Rust Staining	DEFECT NOT FOUND 08/05/2019	1			Square Feet

General Comments

Span 2 — Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	47	3	20	0	Feet
515	Steel Protective Coating	685	682	0	0	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Damage	impact damage	3			Feet
☑ **107**	Corrosion	at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)	2	2		Feet

☑ **107**	Corrosion	at bent 2, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **107**	Distortion	2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN THE DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 8 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A 5 INCHES X 1/16 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 22 FEET 9 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A EIGHT INCHES X 1/16 INCHES AT 21 FEET 1 INCHES, A 8 INCHES X 1/16 INCHES AT 18 FEET 9 INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/16 INCHES AT 21 FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 27 FEET 2 INCHES FROM FACE OF BENT 1.	2	20		Feet
☑ **107**	Distortion	UP TO 6 INCHES DIAMETER X UP TO 1 INCH SPALLS WITH EXPOSED REINFORCING BENT 2 DIAPHRAGM BAY 1 - NOT LOCATED 8/25/21	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	3	3	Square Feet

General Comments

Span 2 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	65	5	0	0	Feet
515	Steel Protective Coating	685	682	0	0	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Connection	8 INCH X UP TO 5 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REINFORCING BOTTOM FACE OF BENT 1 DIAPHRAGM IN BAY 2	2			Feet
☑ **107**	Corrosion	at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)	2	2		Feet
☑ **107**	Corrosion	at bent 2, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **107**	Damage	impact damage	2			Feet
☑ **107**	Distortion	2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022 POINT OF IMPACT ON BEAM 2 27 FEET 6 INCHES FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE 1/2 INCHES X 14 INCHES X 1/16 INCHES AND A INDENTION IN FLANGE COVER PLATE 6 INCHES X 1/32 INCH , A INDENTION IN FLANGE 1 1/2 INCHES X 1/16 INCHES ALL IN THE IMPACT AREA.	2	2		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	2	2	Square Feet	

General Comments

Span 2 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	64	5	1	0	Feet
515	Steel Protective Coating	685	682	0	0	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑ **107**	Corrosion	at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)	2	2		Feet
☑ **107**	Distortion	2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT ON BEAM 3 26 FEET 1 INCHES FROM FACE OF BENT 1. A INDENTION IN COVER PLATE THREE INCHES X 1/2 INCHES AND A 2 INCHES X 1/2 INCHES IN THE IMPACT AREA.	2	3		Feet
☑ **107**	Distortion	ind	2			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	2	2	Square Feet

General Comments

Span 2 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	43	26	1	0	Feet
515	Steel Protective Coating	685	683	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Damage	impact damage	4			Feet
☑ **107**	Corrosion	at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑ **107**	Corrosion	at bent 1, corrosion with section loss: web (less than 1/16 inch loss x 1 foot x 10 inch); bottom flange (less than 1/16 inch loss x 1 foot)	2	1		Feet

☑ **107**	Distortion	2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022: POINT OF IMPACT 36 FEET 11 INCHES OUT FROM INTERIOR BENT 1 , 15 INCHES LONG BOTTOM FLANGE BENT UPWARD 1 INCH .THERE IS A 7 INCH LONG HAIRLINE CRACK IN THE WELD ATTACHING THE BOTTON COVER PLATE TO THE BOTTOM FLANGE LEFT SIDE AT 36 FEET 5 INCHES OUT FROM INTERIOR BENT 1. SCATTERED SCRAPS WITH UP TO 1 INCH INDENTIONS THROUGHOUT ON BOTTOM COVER PLATE . BEAM 4 SWEPT EASTWARD UP TO 2 INCHES. POSSIBLE HAIRLINE CRACK 1 INCH UP RIGHT FACE OF WEB UP TO 2 INCH LONG AT DIAPHRAM 3 ,23 FEET 3 INCHES FROM INTERIOR BENT 2 .	2	25		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

General Comments

Span 2 — Bet 2 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	48	48	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ **301**	Debris Impaction	MOVED TO ASPHALT WEARING SURFACE	1			Feet

General Comments

Span 2 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	70	68	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	at midspan, (2) spalls (3 inch diameter x 1/2 inch deep) with exposed rusted rebar	2	2	2	Feet

General Comments

Span 2 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	70	68	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Exposed Rebar	(2) UP TO 4 INCH DIAMETER X 1/2 INCH SPALLS WITH EXPOSED REINFORCING 22 FEET FROM BENT 1 NO SECTION LOSS	2	2	2	Feet

General Comments

Span 2 — Near Bearing 1

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	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

General Comments

Span 2 — Far Bearing 1

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	surface rust/rust scale	2	1		Each
☑ 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 2

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 311	Corrosion	rust scale	2	1		Each
☑ 515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	surface rust/rust scale	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet	

General Comments

Span 2 Near Bearing 3

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	surface rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 2 Far Bearing 3

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	surface rust/rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments

Span 2 Near Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	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

General Comments

Span 2 — Far Bearing 4

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	
☑	**313**	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,960	1,525	0	435	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**510**	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK OVER BENT 1 WITH EDGE SPALLS UP TO 3 INCH X 1 INCH DEEP	3	35	35	Square Feet
☑	**510**	Crack (Wearing Surface)	TRANSVERSE CRACKS UP TO 1/16 FEET INCH X 12 FOOT AND MAP CRACKS UP TO 1/32 AT RANDOM THROUGHOUT	3	400	400	Square Feet

General Comments

Span 3 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,205	2,052	153	0	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**12**	Cracking (RC and Other)	THROUGHOUT UNDERSIDE OF DECK, MULTIPLE TRANSVERSE CRACKS [UP TO FULL WIDTH X 1/32 INCHES]	2	150	150	Square Feet
☑	**12**	Delamination/Spall	AT BENT 3 UNDER RIGHT OVERHANG, DELAMINATION [28 INCHES X 12 INCHES]	2	3	3	Square Feet
☐	**12**	Efflorescence/Rust Staining	DEFECT NOT FOUND 08/06/2019	1			Square Feet

General Comments

Span 3 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	68	0	2	0	Feet
515	Steel Protective Coating	685	683	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

General Comments

Span 3 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	68	1	1	0	Feet
515	Steel Protective Coating	685	683	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 3 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	68	0	1	1	Feet
515	Steel Protective Coating	685	683	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to end diaphragm, corrosion with section loss (7/16 inch average remaining x 10 inch x 2.5 inch)	4	1	1	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

General Comments

Span 3 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	70	68	0	2	0	Feet
515	Steel Protective Coating	685	683	0	0	2	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**107**	Corrosion	at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑	**107**	Corrosion	at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑	**107**	Connection	(PAR) DIAPHRAGM OVER BENT 3 UNDER RIGHT OVERHANG, DELAMINATION/SPALL [FULL HEIGHT X 2 FOOT X 2 INCHES DEEP] WITH TWO [2] EXPOSED RUSTED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS	2			Feet
☑	**107**	Connection	BAY 3 DIAPHRAGM OVER BENT 3, SPALL/DELAMINATION [2] [UP TO 6 INCHES X 3 INCHES X UP TO 3/4 INCHES DEEP] WITH EXPOSED RUSTED REINFORCING	2			Feet
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

General Comments

Span 3 Bent 3 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	48	48	0	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	**301**	Debris Impaction	MOVED TO ASPHALT WEARING SURFACE	1			Feet

General Comments

Span 3 Near Bearing 1

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	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

General Comments

Span 3 — 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	
☑	313	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing 2

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

	Element Number	Defect Type	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

General Comments

Span 3 — Far Bearing 2

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	
☑	313	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing 3

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	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

General Comments

Span 3 — Far Bearing 3

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	
☑ **313**	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	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

General Comments

Span 3 — Far Bearing 4

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	
☑ **313**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,960	1,017	8	935	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK WITH EDGE SPALLS UP TO 2 FOOT X 4 INCH X 1 INCH DEEP WITH VEGETATION GROWTH OVER BENT 2	3	35	35	Square Feet
☑ **510**	Crack (Wearing Surface)	ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING UP TO 1/16 INCHES	3	900	900	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	2023 previously repaired, previously noted as: AT ASPHALT OVER BENT 2, MULTIPLE POTHOLES [UP TO 2 FEET X UP TO 6 INCHES X UP TO FULL DEPTH]	2	8		Square Feet

General Comments

Span 4 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,205	2,105	100	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	THROUGHOUT UNDERSIDE OF DECK, MULTIPLE TRANSVERSE CRACKS [UP TO FULL WIDTH X 1/32 INCHES]	2	100	100	Square Feet
☐ **12**	Efflorescence/Rust Staining	DEFECT NOT FOUND 08/05/2019	1			Square Feet

General Comments

Span 4 — Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	69	68	0	1	0	Feet
515	Steel Protective Coating	680	679	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	69	68	1	0	0	Feet
515	Steel Protective Coating	680	679	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Connection	BAY 2 END DIAPHRAGM OVER BENT 3, SPALL [8 INCHES X 6 INCHES X 1/2 INCHES DEEP] WITH EXPOSED RUSTED REINFORCING	2			Feet
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 4 — Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	69	68	1	0	0	Feet
515	Steel Protective Coating	680	679	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 4 — Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	69	68	1	0	0	Feet
515	Steel Protective Coating	680	679	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 4 — End Bent 2 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	48	48	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☐ **301**	Debris Impaction	MOVED TO ASPHALT WEARING SURFACE	1		Feet

General Comments

Span 4 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	70	67	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	ALONG FACE OF RAIL, MULTIPLE SPALLS [UP TO 3 INCHES DIAMETER X 1/2 INCHES DEEP] WITH EXPOSED RUSTED REINFORCING NO LOSS	2	3	3	Feet

General Comments

Span 4 — Near Bearing 1

Movable 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	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — 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	
☑ **313**	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Near Bearing 2

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	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

General Comments

Span 4 — Far Bearing 2

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	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	painted over pitting (up to 1/16 inch deep)	3	1	1	Each

General Comments

Span 4 — Near Bearing 3

Movable 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	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 311	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Near Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 311	Corrosion	surface rust	2	1		Each
☑ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 4 — Far Bearing 4

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	
☑ **313**	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,960	990	0	970	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK OVER BENT 3	3	35	35	Square Feet
☑ **510**	Crack (Wearing Surface)	35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK OVER END BENT 2	3	35	35	Square Feet
☑ **510**	Crack (Wearing Surface)	ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING [UP TO 1/8 INCHES] AT RANDOM THROUGHOUT	3	900	900	Square Feet

General Comments

End Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	45	41	0	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Delamination/Spall	AT ALL BEAM PENETRATIONS, MULTIPLE SPALLS/DELAMINATIONS [UP TO 9 INCHES X 5 INCHES X 1 INCHES DEEP]	3	4	4	Feet

General Comments

End Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	50	45	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **234**	Cracking (RC and Other)	ALONG LENGTH, MULTIPLE VERTICAL CRACKS [UP TO FULL HEIGHT X 1/64 INCHES]	2	5		Feet

General Comments

Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	36	11	5	20	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	BOTH FACES OF CAP, MULTIPLE HORIZONTAL AND VERTICAL CRACKS [UP TO 7 FEET X 1/16 INCHES]	3	15	15	Feet
☑ **234**	Cracking (RC and Other)	MAP CRACKS (UP TO 1/32 INCH X 2 FOOT X UP TO FULL HEIGHT) NORTHEAST BOTTOM CORNER.	3	2	2	Feet
☑ **234**	Cracking (RC and Other)	underside between columns 2 and 3, delamination (3 foot x 2 foot) with cracks (up to 1/16 inch)	3	3	3	Feet
☑ **234**	Delamination/Spall	NORTH FACE OF CAP HAS A DELAMINATED/SPALLED AREA ALONG THE BOTTOM EDGE AT COLUMN 2 4 FOOT X 1.5 FOOT X 1/2 INCH DEEP WITH CRACKS UP TO 1/32 INCH	3	5	5	Feet
☑ **234**	Cracking (RC and Other)	(COMBINED WITH OTHER NOTES 2023) 2 FEET X UP TO 1/16 INCHES HORIZONTAL CRACK BELOW BEAM 2 NORTH FACE OF CAP.	1			Feet

General Comments

Bent 1 — Pile 1

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	WEST FACE AT CAP, VERTICAL CRACK [4 FEET X UP TO 1/32 INCHES] WITH ADJACENT DELAMINATION [10 INCHES X 6 INCHES]	2	1		Each

General Comments

Bent 1 — Pile 3

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Delamination/Spall	BOTTOM EAST FACE OF COLUMN 3 HAS A SPALL AREA AT GROUND LINE 7 INCHES X 17 INCHES X 3.5 INCHES .	3	1	1	Each

General Comments

End Bent 2 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	45	41	0	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Delamination/Spall	AT ALL BEAM PENETRATIONS, MULTIPLE SPALLS/DELAMINATIONS [UP TO 10 INCHES X 4 INCHES X 1 INCHES DEEP]	3	4	4	Feet

General Comments

End Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	50	43	4	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	in bay 1, map cracks (2 foot x 1 foot x up to 1/32 inch)	3	3	3	Feet
☑ **234**	Cracking (RC and Other)	ALONG LENGTH, MULTIPLE VERTICAL CRACKS [UP TO FULL HEIGHT X 1/32 INCHES]	2	4		Feet
☐ **234**	Cracking (RC and Other)	2- UP TO 9 FEET X 1/8 INCHES HORIZONTAL CRACK ON SOUTH FACE UNDER BAY 1 & 3 - DEFECT NOT FOUND, 8/25/2021	1			Feet

General Comments

Bent 2 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	36	10	25	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Delamination/Spall	WEST END OF CAP HAS A SURFACE SPALL AND DELAMINATED AREA 4 INCHES X 10 INCHES X 1/2 INCHES WITH EXPOSED RUSTED REINFORCING [NO LOSS]	3	1	1	Feet
☑ **234**	Cracking (RC and Other)	ALONG ALL FACES OF CAP, SCATTERED MAP CRACKING UP TO 1/64 INCHES AT RANDOM	2	25		Feet
☐ **234**	Cracking (RC and Other)	SOUTH FACE OF CAP HAS SCATTERED MAP CRACKING UP TO 1/64 INCHES INCHES THE FACE OF CAP. - DUPLICATE NOTE, COMBINED 8/25/21	1			Feet

General Comments

Bent 2 — Pile 1

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Delamination/Spall	5 INCHES X 5 INCHES X 1 INCHES SPALL ON SOUTH WEST CORNER 18 INCHES ABOVE THE GROUND.	2	1	1	Each

General Comments

Bent 3 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	36	11	25	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	BENT 3 CAP ALL FACES, SCATTERED MAP CRACKING [UP TO 1/64 INCHES] AT RANDOM	2	25		Feet

General Comments

Bent 3 — Pile 3

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	EAST FACE UNDER CAP, VERTICAL CRACK [3-1/2 FEET X 1/32 INCHES]	2	1		Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1953
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	62
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	62
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	62
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	62
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1736
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	2205
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	70
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	70
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	70
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	70
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1960
Span 2	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2205
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	70
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	70
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	70
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	70
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1960
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
Span 3	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 3	Movable Bearing	Movable Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
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 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2205
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	69
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	69
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	69
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	69
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	70
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1960
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
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	50
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	50
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	45
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110129 **Inspection Date:** 08/17/2023

National Bridge Inventory Items

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

Note:

Items 58,59,60,62 reflect this inspection only.

For overall NBI coding grade, see 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	**P**	**8568**	**3376**
Drainage System	G, F, P, or C	**P**	**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		**0**	**3366**
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		**B**		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**Y**
Inspection Time	Hours	**8**
Traffic Control Time	Hours	
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	**N**

National Bridge and NC SMU Inspection Item Details

Structure Number: 110129 **Inspection Date:** 08/17/2023

Item	Deck - Item 58	**Grade**	6	**Maint Code**		**Qty.**	0
Details	rating revised from 5 to 6; deficiencies do no warrant previous rating						

Item	Deck Debris	**Grade**	P	**Maint Code**	3376	**Qty.**	8568
Details	along both curblines, debris accumulation (up to 2 foot wide x full length); fully obstructing drainage						

Item	Drainage System	**Grade**	P	**Maint Code**	3332	**Qty.**	0
Details	see deck debris						

Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0
Details	(PAR) northeast guardrail termination, impact damage (PAR) north approach asphalt wearing surface, northbound lane near end bent 2, broken asphalt (3 foot x 2 foot x 1.5 inch deep)						

(PAR) northeast guardrail termination, impact damage

End Bent 1 Abutment: AT ALL BEAM PENETRATIONS, MULTIPLE SPALLS/DELAMINATIONS [UP TO 9 INCHES X 5 INCHES X 1 INCHES DEEP]

End Bent 1 Cap 1: ALONG LENGTH, MULTIPLE VERTICAL CRACKS [UP TO FULL HEIGHT X 1/64 INCHES]

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

Span 1 Near Bearing 3: painted over pitting (up to 1/16 inch deep)

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

Span 1 Deck: ALONG BOTH OVERHANGS, TRANSVERSE CRACKS UP TO 1/32 INCH X FULL WIDTH

Span 1 Deck: BOTTOM OF DECK HAS SCATTERED AREAS OF TRANSVERSE CRACKS UP TO 1/32 INCHES X FULL WIDTH SOME WITH EFFLORESCENCE AT RANDOM THROUGHOUT

along both curblines, debris accumulation (up to 2 foot wide x full length); fully obstructing drainage

Span 1 Wearing Surface: ASPHALT WEARING SURFACE IS BROKEN UP/PARTIALLY PATCH AND DEPRESS IN A
FEET X 6 FEET X 1 INCH DEEP AREA 12 FEET FROM END BENT 1 AND 9 FEET FROM RIGHT CURB.

Span 1 Wearing Surface: ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING UP TO 1/32 INCHES THROUGH OUT

Span 1 Wearing Surface: 35 FEET X UP TO 1/4 INCHES TRANSVERSE CRACK OVER END BENT 1

Span 1 Left Bridge Rail: (4) UP TO 5 INCHES DIAMETER X 1/2 INCHES SPALLS WITH EXPOSED REINFORCING 20 FEET FROM END BENT 1 NO SECTION LOSS

Span 2 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK OVER BENT 1 WITH EDGE SPALLS UP TO 3 INCH X 1 INCH DEEP

Span 2 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK OVER BENT 1 WITH EDGE SPALLS UP TO 3 INCH X 1 INCH DEEP

Span 2 Wearing Surface: TRANSVERSE CRACKS UP TO 1/16 FEET INCH X 12 FOOT AND MAP CRACKS UP TO 1/32 AT RANDOM THROUGHOUT

Span 2 Right Bridge Rail: (2) UP TO 4 INCH DIAMETER X 1/2 INCH SPALLS WITH EXPOSED REINFORCING 22 FEET FROM BENT 1 NO SECTION LOSS

Span 2 Left Bridge Rail: at midspan, (2) spalls (3 inch diameter x 1/2 inch deep) with exposed rusted rebar

Span 3 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK WITH EDGE SPALLS UP TO 2 FOOT X 4 INCH X 1 INCH DEEP WITH VEGETATION GROWTH OVER BENT 2

Span 3 Wearing Surface: 35 FEET X UP TO 1/8 INCHES TRANSVERSE CRACK WITH EDGE SPALLS UP TO 2 FOOT X 4 INCH X 1 INCH DEEP WITH VEGETATION GROWTH OVER BENT 2

Span 3 Wearing Surface: ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING UP TO 1/16 INCHES

Span 4 Wearing Surface: ASPHALT WEARING SURFACE HAS SCATTERED MAP CRACKING [UP TO 1/8 INCHES] AT RANDOM THROUGHOUT

(PAR) north approach asphalt wearing surface, northbound lane near end bent 2, broken asphalt (3 foot x 2 foot x 1.5 inch deep)

End Bent 2 Cap 1: in bay 1, map cracks (2 foot x 1 foot x up to 1/32 inch)

End Bent 2 Abutment: AT ALL BEAM PENETRATIONS, MULTIPLE SPALLS/DELAMINATIONS [UP TO 10 INCHES X INCHES X 1 INCHES DEEP]

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

Span 4 Beam 2: BAY 2 END DIAPHRAGM OVER BENT 3, SPALL [8 INCHES X 6 INCHES X 1/2 INCHES DEEP] WITH EXPOSED RUSTED REINFORCING

Span 2 Beam 4: at bent 1, corrosion with section loss: web (less than 1/16 inch loss x 1 foot x 10 inch); bottom flange (less than 1/16 inch loss x 1 foot)

Span 2 Near Bearing 4: surface rust/rust scale

Span 1 Beam 4: at bent 1, web adjacent to end diaphragm, rust scale (13 inch)

Bent 1 Cap 1: MAP CRACKS (UP TO 1/32 INCH X 2 FOOT X UP TO FULL HEIGHT) NORTHEAST BOTTOM CORNER.

Span 2 Beam 3: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)

Span 2 Beam 3: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)

Bent 1 Cap 1: NORTH FACE OF CAP HAS A DELAMINATED/SPALLED AREA ALONG THE BOTTOM EDGE AT COLUMN 2 4 FOOT X 1.5 FOOT X 1/2 INCH DEEP WITH CRACKS UP TO 1/32 INCH

Bent 1 Cap 1: underside between columns 2 and 3, delamination (3 foot x 2 foot) with cracks (up to 1/16 inch)

Span 2 Beam 2: 8 INCH X UP TO 5 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REINFORCING BOTTOM FACE OF BENT 1 DIAPHRAGM IN BAY 2

Bent 1 Cap 1: BOTH FACES OF CAP, MULTIPLE HORIZONTAL AND VERTICAL CRACKS [UP TO 7 FEET X 1/16 INCHES]

Span 2 Beam 2: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)

Span 2 Beam 1: at bent 1, web adjacent to end diaphragm and bottom flange, rust scale (13 inch)

Span 2 Deck: (PAR) west overhang over bent 1, spall (18 inch x 6 inch x 1/2 inch deep) with exposed rusted rebar

Bent 1 Pile 1: WEST FACE AT CAP, VERTICAL CRACK [4 FEET X UP TO 1/32 INCHES] WITH ADJACENT DELAMINATION [10 INCHES X 6 INCHES]

Bent 1 Pile 3: BOTTOM EAST FACE OF COLUMN 3 HAS A SPALL AREA AT GROUND LINE 7 INCHES X 17 INCHES X 3.5 INCHES .

Span 2 Beam 1: at bent 2, web adjacent to end diaphragm, rust scale (10 inch)

Span 3 Beam 1: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Span 2 Beam 3: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

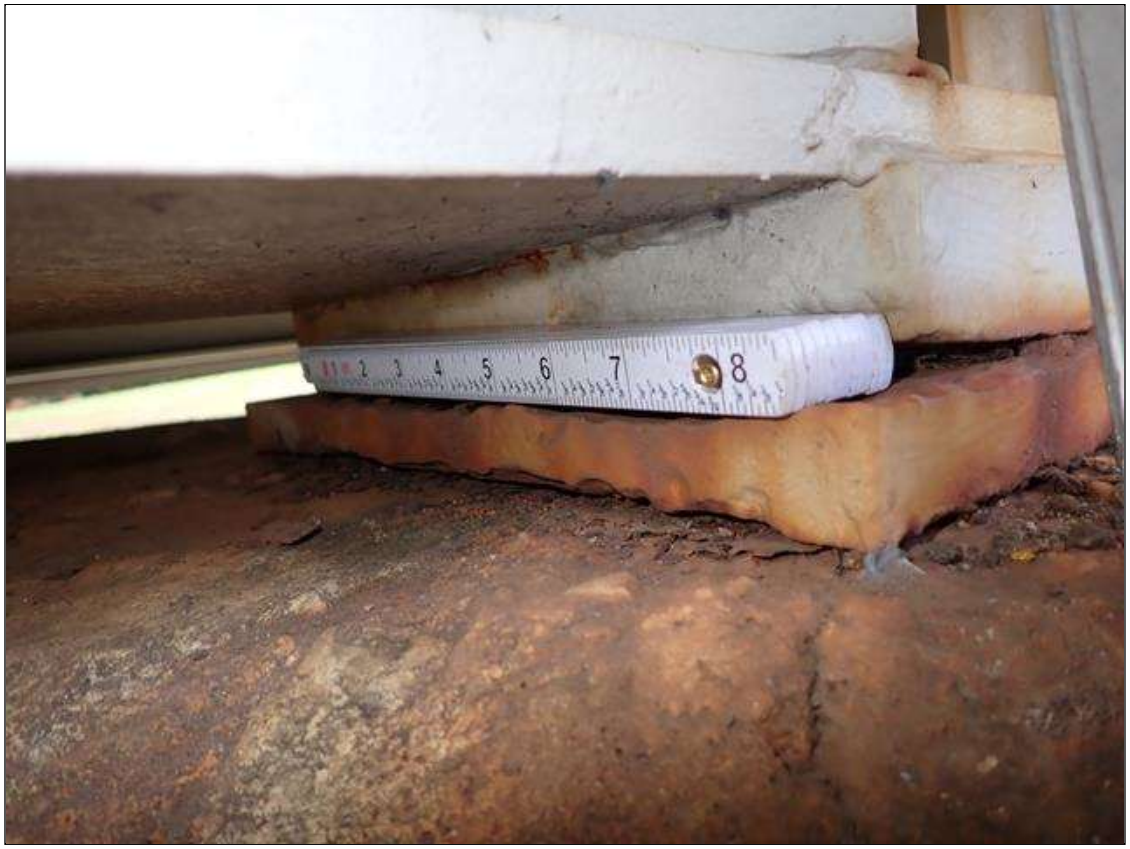
Span 3 Beam 2: at bent 2, web adjacent to end diaphragm, rust scale (10 inch)

Span 3 Beam 3: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Bent 2 Cap 1: ALONG ALL FACES OF CAP, SCATTERED MAP CRACKING UP TO 1/64 INCHES AT RANDOM

Span 2 Beam 4: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Span 3 Beam 4: at bent 2, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)



Span 2 Far Bearing 4: corrosion with section loss (up to 1/8 inch loss)

Span 2 Beam 4: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022: POINT OF IMPACT 36 FEET 11 INCHES OUT FROM INTERIOR BENT 1 , 15 INCHES LONG BOTTOM FLANGE BENT UPWARD 1 INCH .THERE IS A 7 INCH LONG HAIRLINE CRACK IN THE WELD ATTACHING THE BOTTON COVER PLATE TO THE BOTTOM FLANGE LEFT SIDE AT 36 FEET 5 INCHES OUT FROM INTERIOR BENT 1. SCATTERED SCRAPS WITH UP TO 1 INCH INDENTIONS THROUGHOUT ON BOTTOM COVER PLATE . BEAM 4 SWEPT EASTWARD UP TO 2 INCHES. POSSIBLE HAIRLINE CRACK 1 INCH UP RIGHT FACE OF WEB UP TO 2 INCH LONG AT DIAPHRAM 3 ,23 FEET 3 INCHES FROM INTERIOR BENT 2 .

Span 2 Beam 4: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022: POINT OF IMPACT 36 FEET 11 INCHES OUT FROM INTERIOR BENT 1 , 15 INCHES LONG BOTTOM FLANGE BENT UPWARD 1 INCH .THERE IS A 7 INCH LONG HAIRLINE CRACK IN THE WELD ATTACHING THE BOTTON COVER PLATE TO THE BOTTOM FLANGE LEFT SIDE AT 36 FEET 5 INCHES OUT FROM INTERIOR BENT 1. SCATTERED SCRAPS WITH UP TO 1 INCH INDENTIONS THROUGHOUT ON BOTTOM COVER PLATE . BEAM 4 SWEPT EASTWARD UP TO 2 INCHES. POSSIBLE HAIRLINE CRACK 1 INCH UP RIGHT FACE OF WEB UP TO 2 INCH LONG AT DIAPHRAM 3 ,23 FEET 3 INCHES FROM INTERIOR BENT 2 .

Span 2 Beam 3: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT ON BEAM 3 26 FEET 1 INCHES FROM FACE OF BENT 1. A INDENTION IN COVER PLATE THREE INCHES X 1/2 INCHES AND A 2 INCHES X 1/2 INCHES IN THE IMPACT AREA.

Span 2 Beam 2: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION 2022 POINT OF IMPACT ON BEAM 2 27 FEET 6 INCHES FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE 1/2 INCHES X 14 INCHES X 1/16 INCHES AND A INDENTION IN FLANGE COVER PLATE 6 INCHES X 1/32 INCH , A INDENTION IN FLANGE 1 1/2 INCHES X 1/16 INCHES ALL IN THE IMPACT AREA.

Span 2 Beam 1: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN THE DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 8 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A 5 INCHES X 1/16 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 22 FEET 9 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A EIGHT INCHES X 1/16 INCHES AT 21 FEET 1 INCHES, A 8 INCHES X 1/16 INCHES AT 18 FEET 9 INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/16 INCHES AT 21 FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 27 FEET 2 INCHES FROM FACE OF BENT 1.

Span 2 Beam 1: 2023 new repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2022 : INITIAL POINT OF IMPACT ON BEAM 1 14 FEET 7 INCHES FROM FACE OF BENT 1. BEAM 1 IS OUT OF PLUMB 2 INCHES IN THE DIRECTION OF TRAFFIC FOR THE LENGTH OF 20 FEET AND INDENTION IN COVER PLATE 3 FEET X 2 INCHES IN THE IMPACT AREA. AN INDENTION IN FLANGE 8 INCHES X 1/4 INCHES AT 21 FEET 3 INCHES, A 8 INCHES X 1/4 INCHES AT 22 FEET 11 INCHES A 5 INCHES X 1/16 INCHES AT 17 FEET 4 INCHES, A 29 INCHES X 1/2 INCHES AT 27 FEET ZERO INCHES ALL FROM FACE OF BENT 1. INDENTIONS IN FLANGE COVER PLATE 6 INCHES X 1/16 INCHES AT 23 FEET FOUR INCHES, A 6 INCHES X 1/16 INCHES AT 22 FEET 9 INCHES, A 8 INCHES X 1/32 INCHES AT 21 FEET 6 INCHES, A EIGHT INCHES X 1/16 INCHES AT 21 FEET 1 INCHES, A 8 INCHES X 1/16 INCHES AT 18 FEET 9 INCHES, A 6 INCHES X 1/32 INCHES AT 16 FEET FOUR INCHES, A 1 INCHES X 1/32 INCHES AT 25 FEET FIVE INCHES ALL FROM FACE OF BENT 1. GOUGES IN FLANGE COVER PLATE ONE INCHES X FOUR INCHES X 1/16 INCHES AT 21 FEET ONE INCHES AND 3/4 INCHES X 3 INCHES X 1/16 INCHES AT 27 FEET 2 INCHES FROM FACE OF BENT 1.

Bent 2 Cap 1: WEST END OF CAP HAS A SURFACE SPALL AND DELAMINATED AREA 4 INCHES X 10 INCHES X 1/2 INCHES WITH EXPOSED RUSTED REINFORCING [NO LOSS]

Bent 2 Pile 1: 5 INCHES X 5 INCHES X 1 INCHES SPALL ON SOUTH WEST CORNER 18 INCHES ABOVE THE GROUND.

Span 3 Beam 1: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Span 4 Beam 1: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Span 3 Beam 2: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Span 3 Beam 3: (PAR) at bent 3, web adjacent to end diaphragm, corrosion with section loss (7/16 inch average remaining x 10 inch x 2.5 inch)

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

Span 3 Beam 4: at bent 3, web adjacent to end diaphragm, corrosion with section loss (9/16 inch average remaining x 10 inch x 1 inch)

Span 3 Beam 4: (PAR) DIAPHRAGM OVER BENT 3 UNDER RIGHT OVERHANG, DELAMINATION/SPALL [FULL HEIGHT X 2 FOOT X 2 INCHES DEEP] WITH TWO [2] EXPOSED RUSTED REINFORCING WITH APPROXIMATELY 25 PERCENT LOSS

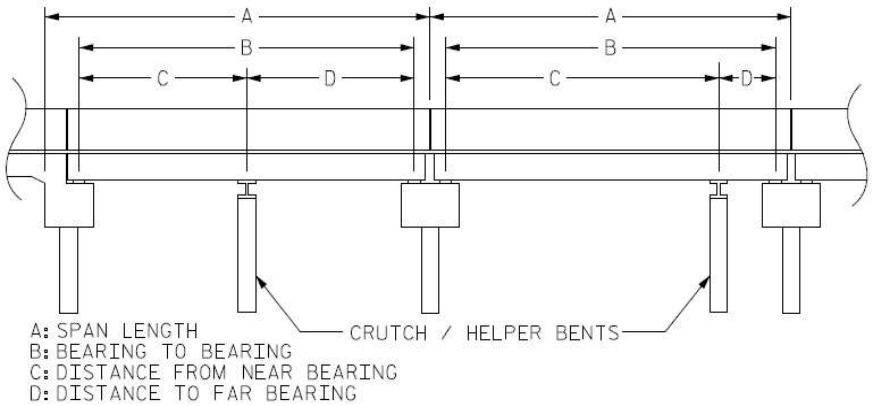
Span 3 Beam 4: BAY 3 DIAPHRAGM OVER BENT 3, SPALL/DELAMINATION [2] [UP TO 6 INCHES X 3 INCHES X UP TO 3/4 INCHES DEEP] WITH EXPOSED RUSTED REINFORCING

Span 3 Deck: AT BENT 3 UNDER RIGHT OVERHANG, DELAMINATION [28 INCHES X 12 INCHES]

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110129**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	62.000	59.708			
2	70.000	69.167			
3	70.000	69.167			
4	70.000	67.375			

Structure Number: 110129 Span: 2 Route Name: I 40 EBL

roadway under span 2, looking east

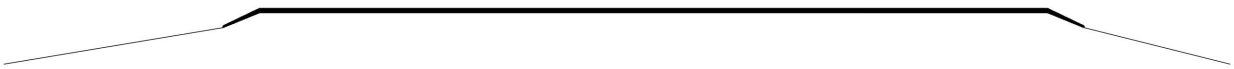
Route Number: 11000400	**Route Name:** I 40 EBL			**Reference Feature:** H
Minimum Vertical Clearance 14.708 feet	**Maximum Minimum Vertical Clearance** 14.810 feet			
Total Horizontal Clearance 42.970 feet	**Lateral Clearances: Left:** 12.780 feet	**Right** 11.000 feet		
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 100.850	**Number of Lanes:** 2	**ADT:** 17000	**Year of ADT:** 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	

Structure Number: 110129 Span: 3 Route Name: I 40 W

roadway under span 3, looking west

Route Number: 11000400	**Route Name:** I 40 W			**Reference Feature:** H
Minimum Vertical Clearance 15.390 feet	**Maximum Minimum Vertical Clearance** 15.790 feet			
Total Horizontal Clearance 42.500 feet	**Lateral Clearances: Left:** 13.610 feet **Right** 10.000 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 100.850	**Number of Lanes:** 2	**ADT:** 17000	**Year of ADT:** 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	

Bridge Inspection Field Sketch



Roadway	21.583ft Wide	2 Paved Lanes	Looking North
Left Shoulder	7ft Wide	1ft Paved	6ft Unpaved
Right Shoulder	5ft Wide	1ft Paved	4ft Unpaved
Left Guardrail			
Right Guardrail			

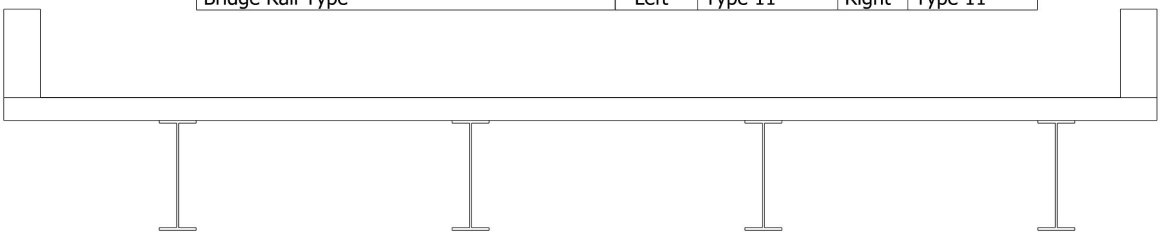
MEASUREMENTS TAKEN 125' FROM END BENT 1

Title	Description
APPROACH ROADWAY	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110129	JCRODRIGUEZ	8/17/2023	S000930000238.wes

Bridge Inspection Field Sketch

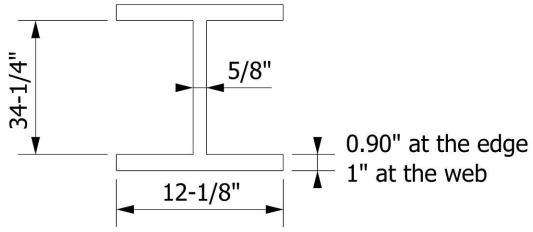
Deck Width/Out to Out	33.5ft	Between Rails			31.25ft
Clear Roadway	28ft	Wearing Surface			1.5in
Median Width		Median Height			
Curb Height		Left	9in	Right	9in
Sidewalk Width		Left	1.583ft	Right	1.583ft
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	10in	Right	10in
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right	2.417ft
Bridge Rail Type		Left	Type 11	Right	Type 11



Measurements for Span #	1	All Spans Similar	
Deck Thickness	7.5in	Left Overhang	4.75ft
Top of Rail to Bottom of Beam (Avg)	6.083ft	Right Overhang	4.75ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12.125in	36in	4.75ft	Left Edge of Deck
2	Plate Girder	12.125in	36in	8ft	Beam 1
3	Plate Girder	12.125in	36in	8ft	Beam 2
4	Plate Girder	12.125in	36in	8ft	Beam 3

BEAMS DIMENSIONS

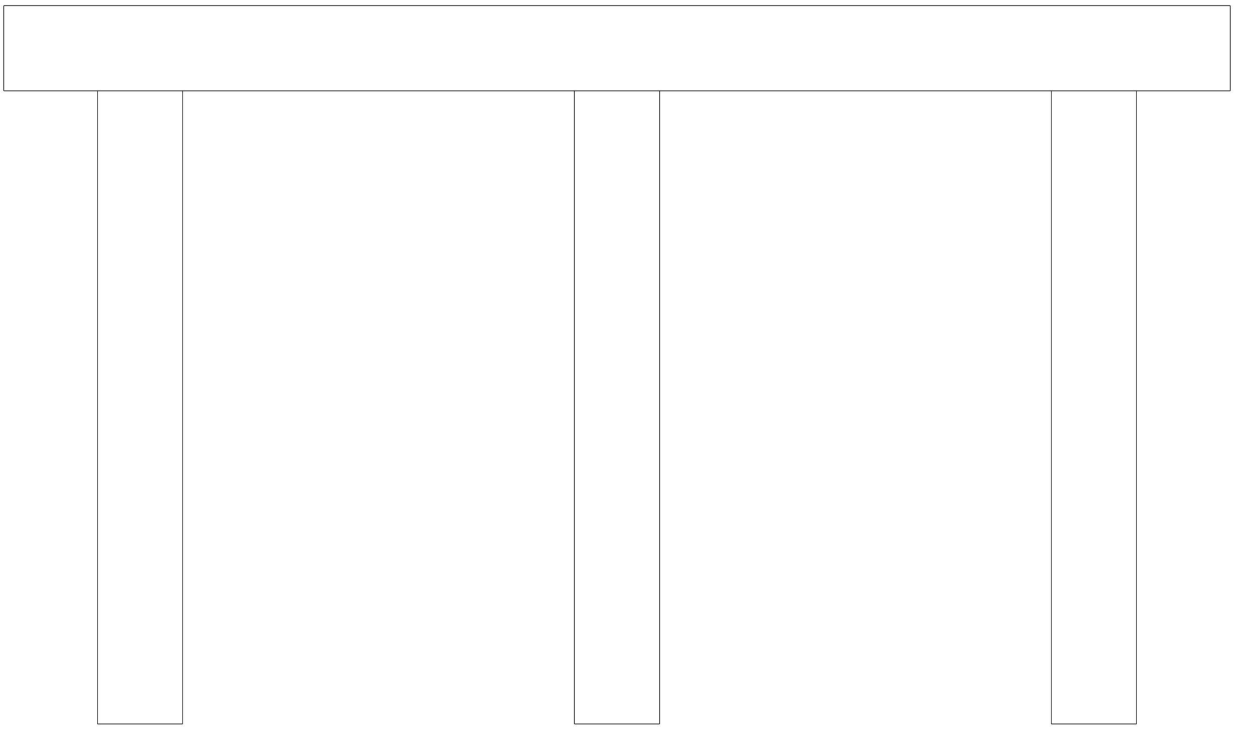


Cover Plates:
Span 1: 10-1/2" wide x 1/2" thick
Span 2-4: 10-1/2" wide x 1-1/16" thick

Title	Description
TYPICAL SECTION	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110129	JCRODRIGUEZ	8/17/2023	S000930000239.wes

Bridge Inspection Field Sketch



Caps							
#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	36ft	30in	30in	1ft	2ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4ft	Left End of Bent	30in	30in	
2	Pile 2	Reinforced Concrete Column	14ft	Pile 1	30in	30in	
3	Pile 3	Reinforced Concrete Column	14ft	Pile 2	30in	30in	

Title	Description
BENT SKETCH	LOOKING NORTH

Structure No: 110129	Drawn By: JCRODRIGUEZ	Date: 8/17/2023	Filename: S000930000240.wes

bent 2

roadway under span 3, looking west (I-40 westbound)

east profile looking west

bent 3

west profile looking east

superstructure underside

end bent 1 and slope protection

southeast wingwall

southwest wingwall

intermediate diaphragm

end diaphragm

southeast guardrail termination

southwest guardrail termination

south approach looking north

southwest guardrail attachment

southwest guardrail

bridge number

bridge plaque

southeast guardrail attachment

southeast guardrail

southeast guardrail transition

end bent 1 asphalt

bent 1 asphalt

south approach looking south

bent 2 asphalt

roadway looking east

roadway looking west

bent 3 asphalt

north approach looking north

northwest guardrail attachment

northwest guardrail

northwest guardrail transition

end bent 2 asphalt

northeast guardrail attachment

northeast guardrail

north approach looking south

northwest guardrail termination

northeast guardrail termination

northwest wingwall

end bent 2 and slope protection

northeast wingwall

end bearing assembly

bent 1

typical cover plate termination

interior bearing assembly

beams over bent

ladder used

roadway under span 2, looking east (I-40 eastbound)