NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request, sketches revised, vertical clearances revised

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110146 **SAP STRUCTURE NO:** 0120146 **FHWA STRUCTURE NO:** 000000000230146

DIVISION: 13 **COUNTY:** BURKE **INSPECTION DATE:** 08/15/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1843 **MILE POST:**

LOCATION: .1 MI.S.JCT.SR1726

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 46.26" **LONGITUDE:** 81° 35' 39.54"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES;INT.BTS:REINF.CONC. POST&BEAM

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** 5 / 5 **SUPERSTRUCTURE** 5 / 5 **SUBSTRUCTURE** 5 / 5 **CULVERT** N / N

POSTED SV: 34 **POSTED TTST:** 37

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
Chris Perry		Isaiah Chapman

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

11/07/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **110146**
(8) STRUCTURE NUMBER (FEDERAL) **0230146**
(5) INVENTORY ROUTE (ON/UNDER) ON **31018430**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **13**
(3) COUNTY CODE (FEDERAL) **23** (4) PLACE CODE **69520**
(6) FEATURE INTERSECTED **I-40**
(7) FACILITY CARRIED **SR1843**
(9) LOCATION **.1 MI.S.JCT.SR1726**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE **0**
(16) LATITUDE **35° 43' 46.26"** (17) LONGITUDE **81° 35' 39.54"**
(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 **1**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1958**
(106) YEAR RECONSTRUCTED **0**
(42) TYPE OF SERVICE ON - **Highway**
OFF - **Highway** CODE **11**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **8**
(29) AVERAGE DAILY TRAFFIC **600**
(30) YEAR OF ADT **2017** (109) TRUCK ADT PCT **7**
(19) BYPASS OR DETOUR LENGTH **5.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **53.0**
(49) STRUCTURE LENGTH **206.0**
(50) CURB OR SIDEWALK: LEFT **1.3** RIGHT **1.3**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **24.0**
(52) DECK WIDTH OUT TO OUT **28.3**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **21.0**
(33) BRIDGE MEDIAN CODE **6**
(34) SKEW **0** (35) STRUCTURE FLARED **1111**
(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** **15.7**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **12.2**
(56) MIN LAT UNDERCLEARANCE LT: **13.0**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **6**
(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 **62.58**
STATUS =

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **Y**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Urban Local** **19**
(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 **5**
(59) SUPERSTRUCTURE **5**
(60) SUBSTRUCTURE **5**
(61) CHANNEL & CHANNEL PROTECTION **N**
(62) CULVERTS **N**

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD **H 15** **2**
(63) OPERATING RATING METHOD - **Load Factor** **1**
(64) OPERATING RATING - **HS-22** **39**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-13** **23**
(70) BRIDGE POSTING **Posting Required** **3**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **P**
DESCRIPTION **Posted for Load**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **5**
(68) DECK GEOMETRY **N**
(69) UNDERCLEARANCES, VERT & HORIZ **4**
(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 **1,200** 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 **110146** County **BURKE** Run Date **11/07/2023**

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 E	11000400	17.6	108.8	1	10040	11	2	23000	2015	43.9	H	17.0	12.4	13.1	6		1	☐	☐
3	I 40 W	11000400	16.0	108.8	1	10040	11	2	23000	2015	43.6	H	15.5	12.2	13.0	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** 53.750 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1421 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	216 Feet	Legacy Non Lead Primer System with various Topcoats	1992
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	108 Feet		
1	Weight Limit	Regulatory Sign	1 Each		

Span Number 2 **Span Length** 53.500 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	108 Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1414 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	216 Feet	Legacy Non Lead Primer System with various Topcoats	1972
1	Standard Joint	Pourable Joint Seal	24 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4

Span Number 3 **Span Length** 53.500 **Skew** 90.000

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
1	Standard Joint	Pourable Joint Seal	24 Feet		
4	Plate Girder	Steel Open Girder/Beam	216 Feet	Legacy Non Lead Primer System with various Topcoats	1972
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1414 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	108 Feet		

Superstructure Build Details

4	Movable Bearing	Movable Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4

Span Number 4 **Span Length** 45.500 **Skew** 90.000

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
1	Standard Joint	Pourable Joint Seal	24	Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	92	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1203	Square Feet		
4	Plate Girder	Steel Open Girder/Beam	184	Feet	Legacy Non Lead Primer System with various Topcoats	1688
1	Weight Limit	Regulatory Sign	1	Each		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Non Lead Primer System with various Topcoats	4

Structure Element Scoring

Structure Number: **110146**

Inspection Date **8/15/2023**

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	5,452	0	1,389	4,063	0
107		Steel Open Girder/Beam	Beam	832	764	46	19	3
515	107	Steel Protective Coating	Beam	7,624	7,556	0	67	1
205		Reinforced Concrete Column	Piles and Columns	6	0	2	4	0
215		Reinforced Concrete Abutment	Abutments	58	46	11	1	0
220		Reinforced Concrete Pile Cap/Footing	Footing	22	22	0	0	0
225		Steel Pile	Piles and Columns	8	8	0	0	0
234		Reinforced Concrete Pier Cap	Caps	134	59	16	59	0
301		Pourable Joint Seal	Expansion Joints	72	8	10	54	0
311		Movable Bearing	Bearing Device	16	0	4	12	0
515	311	Steel Protective Coating	Bearing Device	16	0	0	2	14
313		Fixed Bearing	Bearing Device	16	0	13	3	0
515	313	Steel Protective Coating	Bearing Device	16	0	5	9	2
331		Reinforced Concrete Bridge Railing	Bridge Rail	416	366	50	0	0
601		Regulatory Sign	Ground Mounted Signs	2	2	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110146** Inspection Date: **08/15/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	78 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	4820 Square Feet
3314	Steel Open Girder/Beam	Corrosion	22 Feet
3348	Reinforced Concrete Column	Delamination/Spall	1 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	58 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	7 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	24 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	1 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	35 Feet
3310	Pourable Joint Seal	Debris Impaction	14 Feet
3310	Pourable Joint Seal	Seal Damage	40 Feet
3334	Movable Bearing	Corrosion	12 Each
3334	Fixed Bearing	Corrosion	3 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	1 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	100 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110146** Inspection Date **08/15/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	22	832	3.000	19.000	46.000	764.000
Beam	3342	Clean and Paint Steel	68	7624	1.000	67.000	0.000	7556.000
Bearing Device	3334	Bridge Bearing	12	16	0.000	12.000	4.000	0.000
Bearing Device	3334	Bridge Bearing	3	16	0.000	3.000	13.000	0.000
Bearing Device	3342	Clean and Paint Steel	16	16	14.000	2.000	0.000	0.000
Bearing Device	3342	Clean and Paint Steel	16	16	2.000	9.000	5.000	0.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	1	416	0.000	0.000	50.000	366.000
Deck	3326	Maintenance of Concrete Deck	4898	5452	0.000	4063.000	1389.000	0.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	54	72	0.000	54.000	10.000	8.000
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	0	2	0.000	0.000	0.000	2.000
Abutments	3350	Maintenance of Concrete Wings and Wall	7	58	0.000	1.000	11.000	46.000
Caps	3348	Maintenance of Concrete Substructure	60	134	0.000	59.000	16.000	59.000
Footing	3348	Maintenance of Concrete Substructure	0	22	0.000	0.000	0.000	22.000
Piles and Columns	3348	Maintenance of Concrete Substructure	59	6	0.000	4.000	2.000	0.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	8	0.000	0.000	0.000	8.000

Priority Actions Request

Structure Number 110146

Span1

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	10	Span 1 Deck: (PAR) throughout top of deck, scattered delaminations/spalls (up to 2 foot x 1 foot x 1.5 inch deep), some with exposed rusted rebar

Span2

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 2: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x up to 2 inch) with corrosion reinitiated

Span3

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated

Span4

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	8	Span 4 Deck: (PAR) throughout top of deck, scattered delaminations/spalls (up to 1 foot diameter x 1.5 inch deep), some with exposed rusted rebar

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 2 inch) with corrosion reinitiated

Bent 3

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	24	Bent 3 Cap 1: (PAR) along the length of the cap, delaminations/spalls (up to full length x 10 inches high x 1.5 inch deep) with cracks (up to 1/8 inch) with some rust

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

Priority Actions Request

Structure Number **110146**

stains

Approach Guardrail and Barriers

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

Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northwest guardrail attachment, (2) bolts missing
2		1	(PAR) southeast guardrail attachment, improper lap
2		15	(PAR) southwest guardrail, approximately 15 feet from bridge, impact damage (15 feet)

Element Condition and Maintenance Data

Structure Number: **110146** Inspection Date: **08/15/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,421	0	411	1,010	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 12	Cracking (RC and Other)	throughout top of deck, map cracks (up to 1/16 inch) and transverse cracks (up to 1/16 inch x 15 feet) at random	3	1,000	1,000	Square Feet
☑ 12	Delamination/Spall	(PAR) throughout top of deck, scattered delaminations/spalls (up to 2 foot x 1 foot x 1.5 inch deep), some with exposed rusted rebar	3	10	10	Square Feet
☑ 12	Delamination/Spall	at bent 1, end diaphragm in all bays, spalls/delaminations (up to full bay width x 6 inch wide x 15 inch deep) with exposed rusted rebar and associated cracks (up to 1/16 inch)	3		14	Square Feet
☑ 12	Abrasion/Wear (PSC/RC)	throughout top of deck, wear with secure aggregate	2	402		Square Feet
☑ 12	Cracking (RC and Other)	underside of deck, in all bays and both overhangs, transverse cracks (up to 1/32 inch x full bay width) and areas of map cracks (hairline), some with efflorescence at random	2		140	Square Feet
☑ 12	Patched Areas	throughout top of deck, asphalt patches (up to 2 foot diameter)	2	9		Square Feet
☑ 12	Cracking (RC and Other)	(combined with other notes 2023) SPAN 1 BOTTOM OF DECK IN BAY 2 HAS SCATTERED MAP CRACKED AREAS WITH DISCOLORATION APROXIMATELY 50 SQUARE FEET.	1			Square Feet

General Comments

Span 1 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	54	52	1	1	0	Feet
515	Steel Protective Coating	498	497	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 107	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (9/16 inch average remaining x 4 inch x 1 inch) with corrosion reinitiated; bottom flange, rust scale	3	1	1	Feet
☑ 107	Corrosion	edge of top flange, at bent 1, surface rust	2	1		Feet
☑ 515	Effectiveness (Steel Protective Coatings)	at bent 1, bottom flange, rust scale	4	1	1	Square Feet

General Comments

Span 1 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	54	52	1	1	0	Feet
515	Steel Protective Coating	498	496	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 7 inch x 4 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	edge of top flange, at bent 1, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, surface rust	3	2	2	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	54	51	2	1	0	Feet
515	Steel Protective Coating	498	495	0	3	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 11 inch x 3 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	edge of top flange, at bent 1 and midspan, surface rust	2	2		Feet
☑ **107**	Connection	(2023 defect moved to deck) at far end diaphragm, spall [26 inch x 3 inch x 4 inch] with exposed rusted reinforcing [section loss up to 1/16 inch]	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	midspan and at bent 1, surface rust	3	3	3	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	54	52	1	1	0	Feet
515	Steel Protective Coating	498	496	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 10 inch x 1/2 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	edge of top flange, at bent 1, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, surface rust	3	2	2	Square Feet

General Comments

Structure Number: **110146** Inspection Date: **08/15/2023**

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	54	45	9	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	331	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random	2	9		Feet

General Comments

Span 1 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	54	39	15	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	331	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random	2	15		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	1	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	313	Corrosion	painted over section loss (up to 3/16 inch deep) with corrosion reinitiated	3	1	1	Each
☑	515	Effectiveness (Steel Protective Coatings)	at bent 1, limited effectiveness surface corrosion present	3	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 ON THE BEARING PLATE.	2	1		Each
☑	515	Effectiveness (Steel Protective Coatings)	SURFACE RUST/RUST SCALE ON PLATES.	4	1	1	Square Feet

General Comments

Structure Number: **110146** Inspection Date: **08/15/2023**

Span 1 Near 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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	SURFACE RUST/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PACK RUST RUST ON PLATES.	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	0	1	0	0	Square Feet

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

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 ON THE BEARING PLATE.	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	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	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	
☑ **313**	Corrosion	active surface corrosion, no section loss	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	limited effectiveness surface corrosion present	3	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	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SURFACE RUST/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST/PACK RUST ON PLATES.	4	1	1	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	1,414	0	344	1,070	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	throughout top of deck, map cracks (up to 1/32 inch) and transverse cracks (up to 1/16 inch x 15 feet) at random	3	1,060	1,060	Square Feet
☑ **12**	Delamination/Spall	throughout top of deck, scattered delaminations/spalls (up to 1 foot diameter x 1 inch deep)	3	10	10	Square Feet
☑ **12**	Abrasion/Wear (PSC/RC)	throughout top of deck, wear with secure aggregate	2	342		Square Feet
☑ **12**	Cracking (RC and Other)	SPAN 2 BOTTOM OF DECK HAS hairline map cracking, some WITH EFFLORESCENCE IN ALL BAYS; BOTH OVERHANGS, TRANSVERSE CRACKS (HAIRLINE X FULL WIDTH), SOME WITH EFFLORESCENCE	2		300	Square Feet
☑ **12**	Patched Areas	northbound lane, near bent 1, asphalt patch (2 foot x 1 foot)	2	2		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	54	49	4	1	0	Feet
515	Steel Protective Coating	493	488	0	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 1 inch x 6 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 1 and 2, surface rust	2	3		Feet
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	5	5	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	54	50	2	1	1	Feet
515	Steel Protective Coating	493	489	0	4	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x up to 2 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 1 and 2, surface rust	2	2		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	4	4	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	54	49	3	2	0	Feet
515	Steel Protective Coating	493	488	0	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet

☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 7 inch x 1.5 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 1 and 2, surface rust	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	5	5	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	54	49	3	2	0	Feet
515	Steel Protective Coating	493	488	0	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (9/16 inch average remaining x 1 inch x 10 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 1 and 2, surface rust	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	5	5	Square Feet

General Comments

Span 2 Bent 1 Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	24	0	0	24	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Debris Impaction	both shoulders, debris accumulation	3	6	6	Feet
☑ **301**	Seal Damage	along the length of the joint, deteriorated seal at random	3	18	18	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	54	49	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random	2	5		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	54	50	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random	2	4		Feet

General Comments

Span 2 — Near 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SURFACE RUST ON THE BEARING PLATE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 2 — Far 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	SPAN 2 BEAM 1 FAR BEARING HAS RUST SCALE/PACK RUST ON THE BEARING PLATE	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	RUST SCALE/PACK ON PLATES.	4	1	1	Square Feet

General Comments

Span 2 — Near 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	RUST SCALE/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	RUST SCALE/PACK RUST ON PLATES.	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 2

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	RUST SCALE/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	RUST SCALE/PACK RUST ON PLATES.	4	1	1	Square Feet

General Comments

Span 2 — 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	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SURFACE RUST ON THE BEARING PLATE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 2 — Far 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	SURFACE RUST/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST/PACK RUST RUST ON PLATES.	4	1	1	Square Feet

General Comments

Span 2 — 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **313**	Corrosion	painted over section loss (up to 1/8 inch deep) with corrosion reinitiated	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 2 — Far 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 ON THE BEARING PLATE.	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	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	1,414	0	339	1,075	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**12**	Cracking (RC and Other)	throughout top of deck, map cracks (up to 1/16 inch) and transverse cracks (up to 1/16 inch x 15 feet) at random	3	1,060	1,060	Square Feet
☑	**12**	Delamination/Spall	throughout top of deck, scattered delaminations/spalls (up to 2 foot x 1 foot x 1 inch deep)	3	15	15	Square Feet
☑	**12**	Abrasion/Wear (PSC/RC)	throughout top of deck, wear with secure aggregate	2	330		Square Feet
☑	**12**	Cracking (RC and Other)	SPAN 3 BOTTOM OF DECK HAS HAIRLINE MAP CRACKING WITH SOME EFFLORESCENCE IN ALL BAYS; BOTH OVERHANGS, TRANSVERSE CRACKS (HAIRLINE X FULL WIDTH), SOME WITH EFFLORESCENCE	2		220	Square Feet
☑	**12**	Patched Areas	2 - TOP OF DECK HAS ASPHALT PATCHED AREAS ALONG THE CENTER LINE UP TO 2.5 FEET X 3 FEET.	2	9		Square Feet

General Comments

Span 3 — Bent 2 Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	24	0	0	24	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**301**	Debris Impaction	both shoulders, debris accumulation	3	2	2	Feet

☑ **301**	Seal Damage	along the length of the joint, deteriorated seal at random	3	22	22	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	54	49	3	2	0	Feet
515	Steel Protective Coating	493	488	0	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 3 inch x 4 inches) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (9/16 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 2 and 3, surface rust	2	3		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	5	5	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	54	47	5	2	0	Feet
515	Steel Protective Coating	493	486	0	7	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 1 inch x 6 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 2 and 3, surface rust	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	7	7	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	54	50	2	1	1	Feet
515	Steel Protective Coating	493	488	0	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	(PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 6 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 2 and 3, surface rust	2	2		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	5	5	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	54	49	4	1	0	Feet
515	Steel Protective Coating	493	488	0	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 1 inch x 10 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bents 2 and 3, surface rust	2	3		Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	5	5	Square Feet

General Comments

Span 3 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	54	50	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random	2	4		Feet

General Comments

Span 3 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	54	51	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random	2	3		Feet

General Comments

Span 3 — Near 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SURFACE RUST ON THE BEARING PLATE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 3 — 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 ON THE BEARING PLATE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST/RUST SCALE ON PLATES.	4	1	1	Square Feet

General Comments

Span 3 — Near 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SURFACE RUST ON THE BEARING PLATE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 3 — Far Bearing 2

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	SPAN 3 BEAM 2 FAR BEARING HAS SURFACE RUST/PACK RUST ON BEARING PLATE.	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST/PACK RUST RUST ON PLATES.	4	1	1	Square Feet	

General Comments

Span 3 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	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SURFACE RUST ON THE BEARING PLATE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 3 Far 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	PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PACK RUST ON PLATES.	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 4

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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SURFACE RUST ON THE BEARING PLATE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST ON PLATES.	3	1	1	Square Feet

General Comments

Span 3 — 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	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	SURFACE RUST/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST/PACK RUST ON PLATES.	4	1	1	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	1,203	0	295	908	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	throughout top of deck, map cracks (up to 1/16 inch) and transverse cracks (up to 1/16 inch x 15 feet) at random	3	900	900	Square Feet
☑ **12**	Delamination/Spall	(PAR) throughout top of deck, scattered delaminations/spalls (up to 1 foot diameter x 1.5 inch deep), some with exposed rusted rebar	3	8	8	Square Feet
☑ **12**	Delamination/Spall	at bent 3, end diaphragm in all bays, spalls/delaminations (up to full bay width x 10 inches x 2.5 inches deep) with exposed rusted rebar, with associated cracks (up to 1/16 inch)	3		21	Square Feet
☑ **12**	Abrasion/Wear (PSC/RC)	throughout top of deck, wear with secure aggregate	2	287		Square Feet
☑ **12**	Cracking (RC and Other)	BOTTOM OF DECK IN ALL BAYS HAS HAIRLINE MAP CRACKING NEAR END BENT 2; BOTH OVERHANGS, TRANSVERSE CRACKS (HAIRLINE X FULL WIDTH), SOME WITH EFFLORESCENCE	2		140	Square Feet
☑ **12**	Patched Areas	4 - TOP OF DECK HAS ASPHALT PATCHED AREAS UP TO 2.5 FEET X 2 FOOT NEAR END BENT 2.	2	8		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	46	42	3	1	0	Feet
515	Steel Protective Coating	422	418	0	4	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 2 feet) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bent 3, surface rust	2	3		Feet

☑ **107**	Connection	(2023 defect moved to deck) at near end diaphragm, delamination [full width x 4 inch]		1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust		3	4	4	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	46	44	1	0	1	Feet
515	Steel Protective Coating	422	420	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 2 inch); lower web, painted over pitting (up to 1/8 inch deep x 6 inch x 6 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bent 3, surface rust	2	1		Feet
☑ **107**	Connection	(2023 defect moved to deck) at near end diaphragm, spall [4 feet x 6 inch x 8 inch] with exposed rusted reinforcing [section loss up to 1/16 inch]	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	2	2	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	46	44	1	1	0	Feet
515	Steel Protective Coating	422	420	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 3 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bent 3, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	2	2	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	46	35	10	1	0	Feet
515	Steel Protective Coating	422	411	0	11	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	at bent 3, painted over section loss: web adjacent to diaphragm (7/16 inch average remaining x 1 inch x 2 feet); lower web, painted over pitting (up to 1/16 inch deep x 1 foot) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the edge of the top flange, near bent 3, surface rust	2	10		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	11	11	Square Feet

General Comments

Span 4 — Bent 3 Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	24	8	10	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Debris Impaction	both shoulders, debris accumulation	3	6	6	Feet
☑ **301**	Seal Damage	along the length of the joint, deteriorated seal at random	2	10		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	SURFACE RUST/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST/PACK RUST ON PLATES.	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	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	rust scale	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	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	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	SURFACE RUST/PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SURFACE RUST/PACK RUST ON PLATES.	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	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

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

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	PACK RUST ON THE BEARING PLATE.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PACK RUST ON PLATES.	4	1	1	Square Feet

General Comments

Span 4 — 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	freckled rust	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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	surface rust/pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	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	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square 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	46	41	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random, some with efflorescence	2	5		Feet

General Comments

Span 4 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	46	41	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	along the curb, areas of map cracks (hairline) at random	2	4		Feet

☑ **331**	Delamination/Spall	top of rail post 7, spall (4 inch diameter x 1 inch deep)		2	1	1	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	29	24	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Delamination/Spall	adjacent to all beams, delaminations/spalls [up to 2 feet x 13 inch x 1/2 inch deep]	2	5	5	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	31	22	9	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 1/32 inch]	2	9		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	24	3	1	20	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	along the length of the cap, delaminations (up to 7 feet x 6 inch) with cracks (up to 1/16 inch)	3	20	20	Feet
☑ **234**	Delamination/Spall	RIGHT END OF CAP HAS A SPALL AREA 5 INCH X 5 INCH X 3/4 INCH DEEP WITH REBAR EXPOSED AND 6 INCH DIAMETER DELAMINATION.	2	1	1	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) South face lower left corner, horizontal crack [12 inch x 1/16 inch]	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) SOUTH FACE OF CAP HAS A 14 FEET X UP TO 1/32 INCH HORIZONTAL CRACK ALONG THE TOP EDGE OF CAP BETWEEN BEAM 2 AND BEAM 4.	1	8		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 and east faces, multiple vertical cracks [up to 5 feet x 0.03 inch]	2	1		Each
☑ **205**	Delamination/Spall	east face, at ground, spall (5 inch x 4 inch x 1 inch deep)	2		1	Each

General Comments

Bent 1 — Pile 2

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)	all faces, vertical cracks (up to 1/32 inch x 7 feet) and areas of map cracking (hairline) at random	2	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	29	22	6	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Delamination/Spall	in bay 2 adjacent to East face of beam 2, spall [5 inch x 11 inch x up to 1.5 inch deep]	3	1	1	Feet
☑ **215**	Cracking (RC and Other)	at multiple locations in all bays, areas of hairline map cracking	2	5		Feet
☑ **215**	Delamination/Spall	in bay 1, adjacent to bay 2, delamination (9 inch x 5 inch)	2	1	1	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	31	25	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	along length of cap, multiple vertical cracks [up to full height x 1/64 inch]	2	6		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	24	9	0	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	south and north faces, and underside, delaminations (up to 5 feet x 6 inch) with associated longitudinal cracks (up to 1/16 inch); areas of map cracks (hairline) at random	3	15	15	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) BENT 2 SOUTH FACE OF CAP HAS A 4 FOOT X UP TO 1/16 INCH HORIZONTAL CRACK WITH RUST STAINING ALONG TOP EDGE BETWEEN BEAM 2 AND BEAM 3.	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) NORTH FACE OF CAP HAS A UP TO 1/16 INCH HORIZONTAL CRACK ALONG TOP EDGE BETWEEN BEAM 1 AND BEAM 3.	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) NORTH FACE OF CAP HAS SCATTERED MAP CRACKING AND VERTICAL CRACKS IN FACE OF CAP.	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) SOUTH FACE OF CAP HAS 3 FOOT X UP TO 1/16 INCH HORIZONTAL CRACK ALONG THE TOP OF THE CAP UNDER BEAM 1	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	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	UP TO 11 FOOT X UP TO 1/16 INCH VERTICAL CRACKS ON EAST AND WEST FACES.	3	1	18	Each

General Comments

Bent 2 Pile 2

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**	Cracking (RC and Other)	2 - 9 FOOT X UP TO 1/16 INCH VERTICAL CRACKS, WITH ADJACENT MAP CRACKS (HAIRLINE), WEST AND EAST FACES.	3	1	15	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	24	0	0	24	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) along the length of the cap, delaminations/spalls (up to full length x 10 inches high x 1.5 inch deep) with cracks (up to 1/8 inch) with some rust stains	3	24	24	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) BOTTOM NORTH FACE OF CAP HAS A CRACK UP TO 1/32 INCH BETWEEN COLUMN 1 AND COLUMN 2 12 FEET LONG.	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) NORTH FACE OF CAP UP TO 1/8 INCH HORIZONTAL CRACK WITH RUST STAINS AND MAP CRACKING FROM BEAM 1 TO BEAM 3 ALONG THE TOP EDGE OF CAP.	1			Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) SOUTH FACE OF CAP HAS A UP TO 1/16 INCH HORIZONTAL CRACK ALONG TOP EDGE BETEEN BEAM 3 AND BEAM 4 4 INCHES DOWN AND 7 FOOT LONG.	1			Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) BENT 3 SOUTH FACE OF CAP HAS A CRACKED DELAMINATED AREA IN FACE OF CAP RIGHT SIDE OF BEAM 2 [24 INCH X 60 INCH]	1			Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) BOTTOM FACE OF CAP HAS A CRACKED DELAMINATED AREA BETWEEN COLUMN 1 AND COLUMN 2 30 INCHES WIDE AND 6 FOOT LONG.	1			Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) EAST END OF CAP HAS A CRACK DELAMINATED AREA 15 INCH X 16 INCH.	1			Feet

General Comments

Bent 3 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	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	7 FOOT X UP TO 1/16 INCH VERTICAL CRACKS ON EAST, WEST AND NORTH FACES AT BOTTOM OF CAP with associated delamination [5 feet x 2.5 feet]	3	1	15	Each

General Comments

Bent 3 Pile 2

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**	Cracking (RC and Other)	2 - 6 FOOT X UP TO 1/16 INCH VERTICAL CRACKS ON WEST FACE AT BOTTOM OF CAP.	3	1	10	Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1421
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	54
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	54
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	54
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	54
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
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 1	Southeast Weight Limit Sign	Weight Limit	Regulatory Sign	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1414
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	54
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	54
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 2	Bent 1 Joint	Standard Joint	Pourable Joint Seal	24
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1414
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	54
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	54
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	54
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	54
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	54
Span 3	Bent 2 Joint	Standard Joint	Pourable Joint Seal	24
Span 3	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 2	Movable Bearing	Movable Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1203
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	46
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	46
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	46
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	46
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	46
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	46
Span 4	Bent 3 Joint	Standard Joint	Pourable Joint Seal	24
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	Northwest Weight Limit Sign	Weight Limit	Regulatory Sign	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	24
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	31
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	29
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	24
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	31
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	29
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	24
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110146 **Inspection Date:** 08/15/2023

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**5**
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	**F**	**5452**	**3376**
Drainage System	G, F, P, or C	**F**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**F**	**300**	**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	**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	**N**

National Bridge and NC SMU Inspection Item Details

Structure Number: 110146 **Inspection Date:** 08/15/2023

Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	5452
Details	along the curblines, areas of debris accumulation (up to 2 feet wide x 3 inches high) with vegetation, partially obstructing deck drains						
Item	Drainage System	**Grade**	F	**Maint Code**	3332	**Qty.**	0
Details	see deck debris notes						
Item	Slope Protection	**Grade**	F	**Maint Code**	3352	**Qty.**	300
Details	end bent 2 slope protection, transverse cracks (up to 1 inch wide) with settlement (up to 1.5 inches)						
Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0
Details	(PAR) southwest guardrail, approximately 15 feet from bridge, impact damage (15 feet) (PAR) southeast guardrail attachment, improper lap north approach asphalt, repaved prior to 2021 inspection south approach asphalt, repaved since 2021 inspection northwest guardrail, replaced since 2021 inspection (PAR) northwest guardrail attachment, (2) bolts missing						

(PAR) southwest guardrail, approximately 15 feet from bridge, impact damage (15 feet)

(PAR) southeast guardrail attachment, improper lap

along the curblines, areas of debris accumulation (up to 2 feet wide x 3 inches high) with vegetation, partially obstructing deck drains

Span 1 Left Bridge Rail: along the curb, areas of map cracks (hairline) at random

Span 1 Deck: throughout top of deck, asphalt patches (up to 2 foot diameter)

Span 1 Deck: (PAR) throughout top of deck, scattered delaminations/spalls (up to 2 foot x 1 foot x 1.5 inch deep), some with exposed rusted rebar

Span 1 Deck: (PAR) throughout top of deck, scattered delaminations/spalls (up to 2 foot x 1 foot x 1.5 inch deep), some with exposed rusted rebar

Span 1 Deck: throughout top of deck, map cracks (up to 1/16 inch) and transverse cracks (up to 1/16 inch x 15 feet) at random

Span 2 Bent 1 Joint: along the length of the joint, deteriorated seal at random

Span 2 Bent 1 Joint: both shoulders, debris accumulation

Span 2 Deck: throughout top of deck, wear with secure aggregate

Span 3 Deck: 2 - TOP OF DECK HAS ASPHALT PATCHED AREAS ALONG THE CENTER LINE UP TO 2.5 FEET X 3 FEET.

Span 3 Deck: throughout top of deck, scattered delaminations/spalls (up to 2 foot x 1 foot x 1 inch deep)

Span 3 Deck: throughout top of deck, map cracks (up to 1/16 inch) and transverse cracks (up to 1/16 inch x 15 feet) at random

Span 4 Left Bridge Rail: along the curb, areas of map cracks (hairline) at random, some with efflorescence

Span 4 Right Bridge Rail: top of rail post 7, spall (4 inch diameter x 1 inch deep)

Span 4 Deck: (PAR) throughout top of deck, scattered delaminations/spalls (up to 1 foot diameter x 1.5 inch deep), some with exposed rusted rebar

end bent 2 slope protection, transverse crack (up to 1 inch wide) with settlement (up to 1.5 inches)

End Bent 2 Abutment: in bay 2 adjacent to East face of beam 2, spall [5 inch x 11 inch x up to 1.5 inch deep]

End Bent 2 Abutment: in bay 1, adjacent to bay 2, delamination (9 inch x 5 inch)

End Bent 2 Abutment: along length of cap, multiple vertical cracks [up to full height x 1/64 inch]

Span 4 Beam 1 - Far Bearing 1: rust scale

Span 4 Beam 4: at bent 3, painted over section loss: web adjacent to diaphragm (7/16 inch average remaining x 1 inch x 2 feet); lower web, painted over pitting (up to 1/16 inch deep x 1 foot) with corrosion reinitiated

Bent 3 Cap 1: (PAR) along the length of the cap, delaminations/spalls (up to full length x 10 inches high x 1.5 inch deep) with cracks (up to 1/8 inch) with some rust stains

Bent 3 Cap 1: (PAR) along the length of the cap, delaminations/spalls (up to full length x 10 inches high x 1.5 inch deep) with cracks (up to 1/8 inch) with some rust stains

Bent 3 Pile 1: 7 FOOT X UP TO 1/16 INCH VERTICAL CRACKS ON EAST, WEST AND NORTH FACES AT BOTTOM OF CAP with associated delamination [5 feet x 2.5 feet]

Span 4 Deck: at bent 3, end diaphragm in all bays, spalls/delaminations (up to full bay width x 10 inches x 2.5 inches deep) with exposed rusted rebar, with associated cracks (up to 1/16 inch)

Span 4 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (5/16 inch average remaining x 9 inch x 2 inch); lower web, painted over pitting (up to 1/8 inch deep x 6 inch x 6 inch) with corrosion reinitiated

Span 3 Beam 2 - Far Bearing 2: SPAN 3 BEAM 2 FAR BEARING HAS SURFACE RUST/PACK RUST ON BEARING PLATE.

Span 4 Beam 1: at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 2 feet) with corrosion reinitiated

Span 4 Beam 4: along the edge of the top flange, near bent 3, surface rust

Span 3 Deck: SPAN 3 BOTTOM OF DECK HAS HAIRLINE MAP CRACKING WITH SOME EFFLORESCENCE IN ALL BAYS; BOTH OVERHANGS, TRANSVERSE CRACKS (HAIRLINE X FULL WIDTH), SOME WITH EFFLORESCENCE

Span 2 Deck: SPAN 2 BOTTOM OF DECK HAS hairline map cracking, some WITH EFFLORESCENCE IN ALL BAYS; BOTH OVERHANGS, TRANSVERSE CRACKS (HAIRLINE X FULL WIDTH), SOME WITH EFFLORESCENCE

Bent 1 Pile 2: all faces, vertical cracks (up to 1/32 inch x 7 feet) and areas of map cracking (hairline) at random

Bent 1 Cap 1: RIGHT END OF CAP HAS A SPALL AREA 5 INCH X 5 INCH X 3/4 INCH DEEP WITH REBAR EXPOSED AND 6 INCH DIAMETER DELAMINATION.

Bent 1 Cap 1: along the length of the cap, delaminations (up to 7 feet x 6 inch) with cracks (up to 1/16 inch)

Bent 1 Pile 1: east face, at ground, spall (5 inch x 4 inch x 1 inch deep)

Bent 1 Cap 1: along the length of the cap, delaminations (up to 7 feet x 6 inch) with cracks (up to 1/16 inch)

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

Span 2 Beam 4 - Near Bearing 4: painted over section loss (up to 1/8 inch deep) with corrosion reinitiated

Span 1 Deck: at bent 1, end diaphragm in all bays, spalls/delaminations (up to full bay width x 6 inch wide x 15 inch deep) with exposed rusted rebar and associated cracks (up to 1/16 inch)

Span 1 Beam 2: at bent 1, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 7 inch x 4 inch) with corrosion reinitiated

Span 1 Beam 1: at bent 1, web adjacent to diaphragm, painted over section loss (9/16 inch average remaining x 4 inch x 1 inch) with corrosion reinitiated; bottom flange, rust scale

Span 2 Beam 2: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x up to 2 inch) with corrosion reinitiated

End Bent 1 Abutment: adjacent to all beams, delaminations/spalls [up to 2 feet x 13 inch x 1/2 inch deep]

Span 1 Beam 1 - Near Bearing 1: painted over section loss (up to 3/16 inch deep) with corrosion reinitiated

End Bent 1 Cap 1: along length, multiple vertical cracks [up to full height x 1/32 inch]

End Bent 1 Abutment: adjacent to all beams, delaminations/spalls [up to 2 feet x 13 inch x 1/2 inch deep]

Bent 2 Pile 1: UP TO 11 FOOT X UP TO 1/16 INCH VERTICAL CRACKS ON EAST AND WEST FACES.

Bent 2 Cap 1: south and north faces, and underside, delaminations (up to 5 feet x 6 inch) with associated longitudinal cracks (up to 1/16 inch); areas of map cracks (hairline) at random

Bent 2 Cap 1: south and north faces, and underside, delaminations (up to 5 feet x 6 inch) with associated longitudinal cracks (up to 1/16 inch); areas of map cracks (hairline) at random

Bent 2 Cap 1: south and north faces, and underside, delaminations (up to 5 feet x 6 inch) with associated longitudinal cracks (up to 1/16 inch); areas of map cracks (hairline) at random

Span 2 Beam 1: at bent 2, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 1 inch x 6 inch) with corrosion reinitiated

Span 2 Beam 2 - Far Bearing 2: RUST SCALE/PACK RUST ON THE BEARING PLATE.

Span 2 Beam 3: at bent 2, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 7 inch x 1.5 inch) with corrosion reinitiated

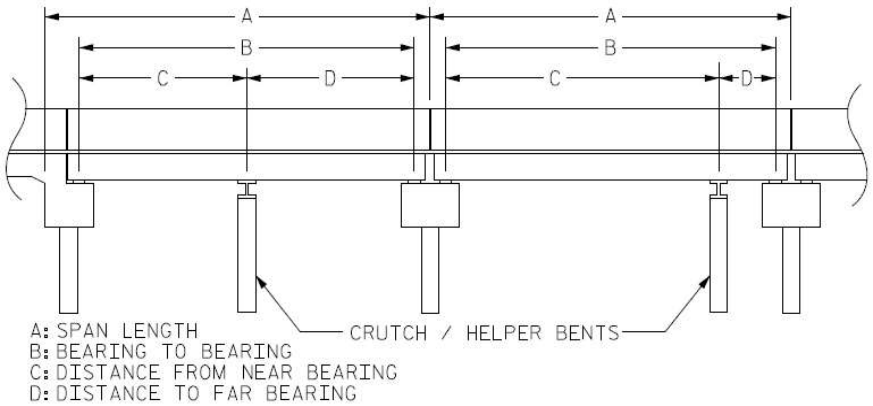
Span 3 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 10 inch x 1 inch) with corrosion reinitiated

(PAR) northwest guardrail attachment, (2) bolts missing

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110146**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	53.750	52.000			
2	53.500	52.500			
3	53.500	52.500			
4	45.500	43.000			

Structure Number: 110146 Span: 2 Route Name: I 40 E

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

Route Number: 11000400	**Route Name:** I 40 E			**Reference Feature:** H
Minimum Vertical Clearance 16.950 feet	**Maximum Minimum Vertical Clearance** 17.590 feet			
Total Horizontal Clearance 43.850 feet	**Lateral Clearances: Left:** 13.060 feet **Right** 12.400 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 108.810	**Number of Lanes:** 2	**ADT:** 23000	**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: 110146 Span: 3 Route Name: I 40 W

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

Route Number: 11000400	**Route Name:** I 40 W			**Reference Feature:** H
Minimum Vertical Clearance 15.500 feet	**Maximum Minimum Vertical Clearance** 15.960 feet			
Total Horizontal Clearance 43.560 feet	**Lateral Clearances: Left:** 13.000 feet **Right** 12.160 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 108.810	**Number of Lanes:** 2	**ADT:** 23000	**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	18.5ft Wide	2 Paved Lanes	Looking North
Left Shoulder	8.5ft Wide	0.5ft Paved	8ft Unpaved
Right Shoulder	22.5ft Wide	0.5ft Paved	22ft Unpaved
Left Guardrail			
Right Guardrail			

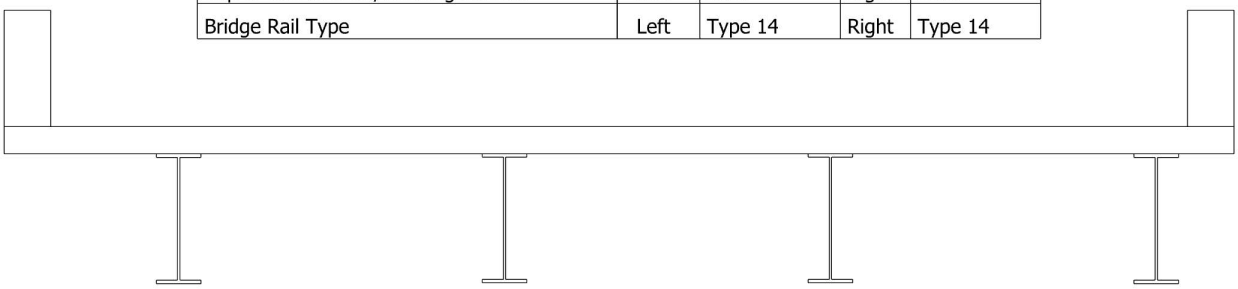
Measurements taken approximately 150 feet from end bent 1

Title	Description
APPROACH ROADWAY	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110146	ITChapman	8/15/2023	S000918000448.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.25ft	Between Rails			26.25ft
Clear Roadway	24ft	Wearing Surface			
Median Width		Median Height			
Curb Height		Left	9in	Right	9in
Sidewalk Width		Left	15in	Right	15in
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	12in	Right	12in
Top of Rail to Deck/Wearing Surface		Left	2.5ft	Right	2.5ft
Bridge Rail Type		Left	Type 14	Right	Type 14



Measurements for Span #	1-4		
Deck Thickness	7in	Left Overhang	3.625ft
Top of Rail to Bottom of Beam (Avg)	5.875ft	Right Overhang	3.625ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	11.5in	33.3in	3.75ft	Left Edge of Deck
2	Plate Girder	11.5in	33.1in	7ft	Beam 1
3	Plate Girder	11.5in	33.1in	7ft	Beam 2
4	Plate Girder	11.5in	33.3in	7ft	Beam 3

BEAMS:

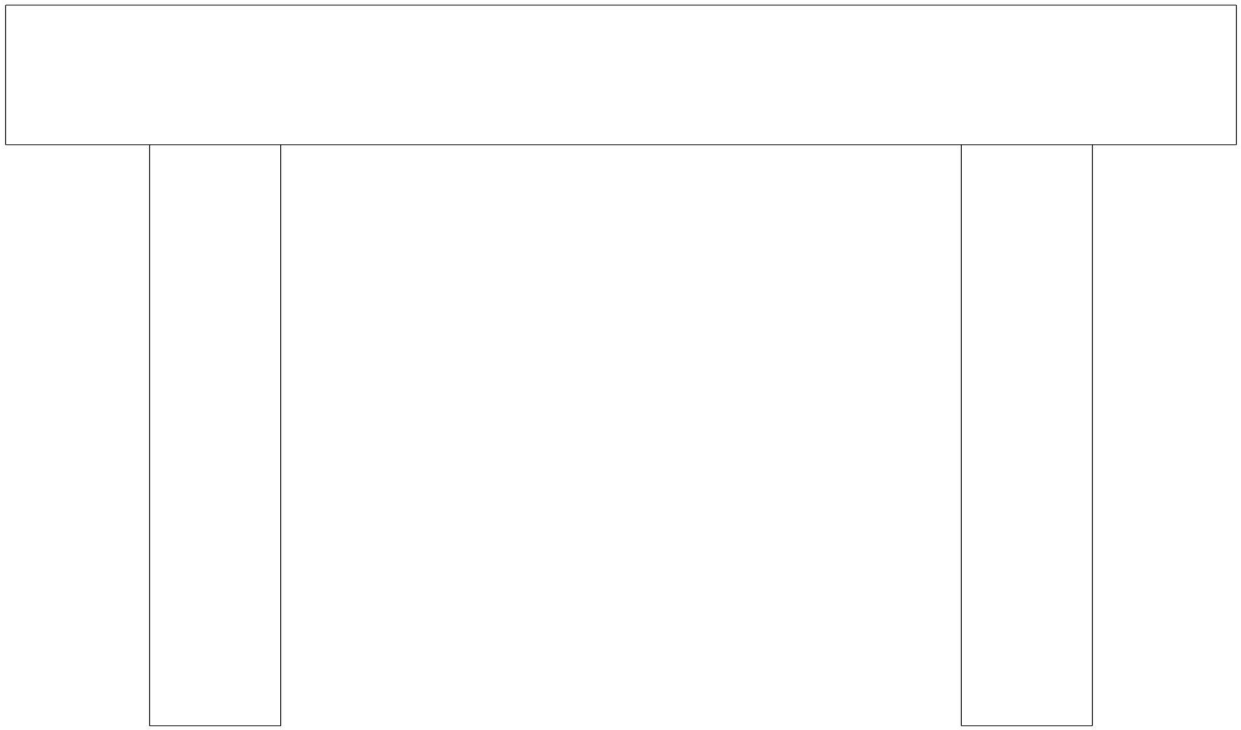
Span 1-3 exterior (W33x141): 31-5/8" between flanges, 11.5" x 15/16" flange, 5/8" web

Span 1-3 interior, all of span 4 (W33x130): 31-1/2" between flanges, 11.5" x 7/8" flange, 9/16" web

Title	Description
TYPICAL SECTION	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110146	ITChapman	8/15/2023	S000918000449.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	23.5ft	30in	32in	1.5ft	1.5ft

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	15.5ft	Pile 1	30in	30in	

Title	Description
BENTS 1-3	LOOKING NORTH

Structure No: 110146	Drawn By: ITChapman	Date: 8/15/2023	Filename: S000918000450.wes

southwest guardrail termination

southwest guardrail

southeast guardrail termination

southeast guardrail

south approach looking north

posting closeup

southeast guardrail transition

end bent 1 deck

right bridge rail

left bridge rail

bridge deck

southeast guardrail attachment

southwest guardrail attachment

south approach looking south

bent 1 joint

bent 2 joint

roadway looking east

roadway looking west

north approach looking north

bent 3 joint

northeast guardrail attachment

northeast guardrail

end bent 2 deck

northwest guardrail attachment

northwest guardrail transition

northwest guardrail

north approach looking south

northwest guardrail termination

northeast guardrail termination

northwest wingwall

end bent 2

end bent 2 slope protection

northeast wingwall

end bearing assembly

bent 3

ladder used

interior bearing assembly

beams over bent

bent 2

superstructure underside

intermediate diaphragm

end diaphragm

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

west profile looking east

bent 1

end bent 1 slope protection

southwest wingwall

end bent 1

southeast wingwall

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

east profile looking west