NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request, sketches revised, clearances revised; span 2 beams heat straightened and repainted since previous inspection

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110147 **SAP STRUCTURE NO:** 0120147 **FHWA STRUCTURE NO:** 000000000230147

DIVISION: 13 **COUNTY:** BURKE **INSPECTION DATE:** 08/14/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1734 **MILE POST:** 110.72

LOCATION: .05 MI.N.JCT.SR1737

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 36.97" **LONGITUDE:** 81° 33' 37.84"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES;BTS:RC CAPS/H-PILES W/CONC.JACKETS

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

OTHER SIGNS PRESENT: (2) vertical clearance signs

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

11/02/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **110147**
(8) STRUCTURE NUMBER (FEDERAL) **0230147**
(5) INVENTORY ROUTE (ON/UNDER) ON **131017340**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **13**
(3) COUNTY CODE (FEDERAL) **23** (4) PLACE CODE **69520**
(6) FEATURE INTERSECTED **I-40**
(7) FACILITY CARRIED **SR1734**
(9) LOCATION **.05 MI.N.JCT.SR1737**
(11) MILEPOINT **110.7**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **35° 43' 36.97"** (17) LONGITUDE **81° 33' 37.84"**
(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 **1955**
(106) YEAR RECONSTRUCTED **0**
(42) TYPE OF SERVICE ON - **Highway - Pedestrian**
OFF - **Highway** CODE **51**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **4**
(29) AVERAGE DAILY TRAFFIC **3600**
(30) YEAR OF ADT **2021** (109) TRUCK ADT PCT **6**
(19) BYPASS OR DETOUR LENGTH **3.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **52.0**
(49) STRUCTURE LENGTH **184.0**
(50) CURB OR SIDEWALK: LEFT **3.3** RIGHT **3.3**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **26.0**
(52) DECK WIDTH OUT TO OUT **34.0**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **25.0**
(33) BRIDGE MEDIAN **No median** CODE **0**
(34) SKEW **0** (35) STRUCTURE FLARED **0**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR **26.0**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **H** **14.4**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **11.5**
(56) MIN LAT UNDERCLEARANCE LT: **14.0**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **0**
(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 **58.32**
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 **No parallel structure exists** **N**
(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 **HS 15** **3**
(63) OPERATING RATING METHOD - **Load Factor** **1**
(64) OPERATING RATING - **HS-27** **49**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-16** **29**
(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 **3**
(69) UNDERCLEARANCES, VERT & HORIZ **3**
(71) WATERWAY ADEQUACY **N**
(72) APPROACH ROADWAY ALIGNMENT **8**
(36) TRAFFIC SAFETY FEATURES **0111**
(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 **7,200** 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 **110147** County **BURKE** Run Date **11/02/2023**

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	I40 EBL	11000400	15.1	110.7	1	10040	11	2	23000	2015	43.1	H	14.4	11.5	14.0	3		1	☐	☐
3	I 40 WBL	11000400	16.9	110.7	1	10040	11	2	23000	2015	43.5	H	16.1	12.7	13.0	5		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** 37.000 **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	74 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1258 Square Feet		
5	Plate Girder	Steel Open Girder/Beam	180 Feet	Legacy Non Lead Primer System with various Topcoats	1790
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1258 Square Feet		
5	Fixed Bearing	Fixed Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
5	Movable Bearing	Movable Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5

Span Number 2 **Span Length** 52.500 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
5	Movable Bearing	Movable Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
1	Asphalt Wearing Surface	Wearing Surface	1785 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	106 Feet		
5	Fixed Bearing	Fixed Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
2	Vertical Clearance	Regulatory Sign	2 Each		
1	Standard Joint	Pourable Joint Seal	26 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1785 Square Feet		
5	Plate Girder	Steel Open Girder/Beam	260 Feet	Legacy Non Lead Primer System with various Topcoats	2560

Span Number 3 **Span Length** 52.500 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
5	Plate Girder	Steel Open Girder/Beam	265 Feet	Legacy Non Lead Primer System with various Topcoats	2595
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1785 Square Feet		
5	Fixed Bearing	Fixed Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5

Superstructure Build Details

5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
2	Concrete Railing	Reinforced Concrete Bridge Railing	106	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1785	Square Feet		
1	Standard Joint	Pourable Joint Seal	26	Feet		

Span Number 4 **Span Length** 42.080 **Skew** 90.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1431	Square Feet		
5	Plate Girder	Steel Open Girder/Beam	210	Feet	Legacy Non Lead Primer System with various Topcoats	2040
2	Concrete Railing	Reinforced Concrete Bridge Railing	86	Feet		
5	Movable Bearing	Movable Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1431	Square Feet		
1	Standard Joint	Pourable Joint Seal	26	Feet		
5	Fixed Bearing	Fixed Bearing	5	Each	Legacy Non Lead Primer System with various Topcoats	5

Structure Element Scoring

Structure Number: **110147**

Inspection Date **8/14/2023**

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	6,259	2,313	8	3,938	0
107		Steel Open Girder/Beam	Beam	915	484	271	145	15
515	107	Steel Protective Coating	Beam	8,985	8,681	0	302	2
215		Reinforced Concrete Abutment	Abutments	72	54	18	0	0
225		Steel Pile	Piles and Columns	10	10	0	0	0
227		Reinforced Concrete Pile	Piles and Columns	21	0	4	17	0
234		Reinforced Concrete Pier Cap	Caps	158	82	8	68	0
301		Pourable Joint Seal	Expansion Joints	78	7	4	0	67
311		Movable Bearing	Bearing Device	20	0	3	17	0
515	311	Steel Protective Coating	Bearing Device	20	0	0	0	20
313		Fixed Bearing	Bearing Device	20	0	15	5	0
515	313	Steel Protective Coating	Bearing Device	20	0	6	7	7
331		Reinforced Concrete Bridge Railing	Bridge Rail	372	285	30	57	0
510		Wearing Surface	Wearing Surfaces	6,259	5,137	0	822	300
601		Regulatory Sign	Ground Mounted Signs	2	2	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110147** Inspection Date: **08/14/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	120 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	10 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	40 Square Feet
3326	Reinforced Concrete Deck	Efflorescence/Rust Staining	3831 Square Feet
3314	Steel Open Girder/Beam	Corrosion	37 Feet
3314	Steel Open Girder/Beam	Distortion	126 Feet
3348	Reinforced Concrete Column	Delamination/Spall	154 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	23 Each
3348	Reinforced Concrete Pile	Cracking (RC and Other)	7 Each
3348	Reinforced Concrete Pile	Delamination/Spall	14 Each
3348	Reinforced Concrete Pile	Efflorescence/Rust Staining	1 Each
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	92 Feet
3310	Pourable Joint Seal	Seal Damage	67 Feet
3334	Movable Bearing	Corrosion	17 Each
3334	Fixed Bearing	Corrosion	5 Each
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	7 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	60 Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	20 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	249 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	822 Square Feet
2816	Wearing Surface	Delamination/Spall (Wearing Surfaces)	60 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	344 Square Feet

Element Structure Maintenance Quantities

Structure Number: **110147** Inspection Date **08/14/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	163	915	15.000	145.000	271.000	484.000
Beam	3342	Clean and Paint Steel	304	8985	2.000	302.000	0.000	8681.000
Bearing Device	3334	Bridge Bearing	17	20	0.000	17.000	3.000	0.000
Bearing Device	3334	Bridge Bearing	5	20	0.000	5.000	15.000	0.000
Bearing Device	3342	Clean and Paint Steel	20	20	20.000	0.000	0.000	0.000
Bearing Device	3342	Clean and Paint Steel	20	20	7.000	7.000	6.000	0.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	87	372	0.000	57.000	30.000	285.000
Deck	3326	Maintenance of Concrete Deck	4001	6259	0.000	3938.000	8.000	2313.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	67	78	67.000	0.000	4.000	7.000
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	0	2	0.000	0.000	0.000	2.000
Wearing Surfaces	2816	Asphalt Surface Repair	1131	6259	300.000	822.000	0.000	5137.000
Abutments	3350	Maintenance of Concrete Wings and Wall	0	72	0.000	0.000	18.000	54.000
Caps	3348	Maintenance of Concrete Substructure	92	158	0.000	68.000	8.000	82.000
Piles and Columns	3348	Maintenance of Concrete Substructure	22	21	0.000	17.000	4.000	0.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	10	0.000	0.000	0.000	10.000

Priority Actions Request

Structure Number 110147

Span1

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	7	Span 1 Deck: (PAR) throughout top of deck, at areas of missing asphalt, spalls/delaminations (up to 2 foot x 1 foot x 1.5 inch deep), some with exposed rusted rebar
1	Efflorescence/Rust Staining	1231	Span 1 Deck: (PAR) BOTTOM OF DECK UP TO 1/32 INCH MAP CRACKING AT RANDOM THROUGHOUT SOME WITH EFFLORESCENCE AND RUST STAINS
2	Exposed Rebar	20	Span 1 Deck: (PAR) underside of bays 1 and 4, and both overhangs at bent 1, spalls/delaminations (up to 2.5 feet x 15 inch x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss

3314 **Beam 3** Plate Girder

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

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 4 inch) with corrosion reinitiated

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole (Wearing Surface)	159	Span 1 Wearing Surface: (PAR) throughout wearing surface, areas of delaminations (up to 3.5 foot diameter) with cracks (up to 1/4 inch); both travel lanes, spalls/failed patches (up to 7 feet x 4 feet x full depth)

Span2

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	15	Span 2 Deck: (PAR) throughout top of deck, at areas of missing asphalt, spalls/delaminations (up to 28 inch x 1 foot x 1.5 inch deep), some with exposed rusted rebar
1	Efflorescence/Rust Staining	900	Span 2 Deck: (PAR) BOTTOM OF DECK HAIRLINE MAP CRACKING SOME WITH EFFLORESCENCE AND RUST STAINS.
2	Exposed Rebar	20	Span 2 Deck: (PAR) underside of bays 1 and 4, and left overhangs at bent 2, spalls/delaminations (up to 2.5 feet x 2 feet x 3 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss

3314 **Beam 1** Plate Girder

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

Priority Actions Request

Structure Number **110147**

Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	52	Span 2 Beam 1: (PAR) 2023 no apparent changes since previous inspections ----------2021 new impact damage to bottom flange, 2 feet wide with 1 inch upward deflection of West side of bottom flange, request supplemental damage inspection ----------BEAM 1 SPAN 2 OUT OF PLUMB 16 INCHES ALONG THE BOTTOM FLANGE AT 18 FEET-8 INCH NORTH FACE OF BENT 1. THE left. FLANGE IS BENT UPWARD OVER 30 INCHES OVER POINT OF IMPACT. 1 GOUGE IN THE DAMAGED AREA IS 2 INCHES X 1 INCH DEEP AT 18 FEET-3 INCHES FROM FACE OF CAP , 1 GOUGE IS 1 1/2 INCHES X 3/4 INCH DEEP AT 19 FEET FROM FACE OF CAP. TOP FLANGE IS TWISTED 4 INCHES AT THE POINT OF IMPACT. THE EXTERIOR left. CONCRETE DIAPHRAGM AT BEAM. 1 SPAN 2 HAS 1/8 INCH CRACK FOR FULL WIDTH AND LENGTH WITH SPALLING PRESENT WITH EXPOSED REBAR ALONG THE FACE OF THE GIRDER 2 FEET HIGH X 7 INCHES WIDE UP TO 6 INCHES DEEP. BEAM 1 SPAN 2 HAS SHIFTED EAST 2 INCHES. THE INTERIOR CONCRETE DIAPHRAGM IN BAY 1 AT PIER 1 BETWEEN beams. 1 AND 2 SPALLED WITH EXPOSED REBAR 22 INCHES HIGH X 22 INCHES WIDE X 3 INCHES DEEP. INTERIOR METAL DIAPHRAGM IN BAY 1 AT 25 FEET-9 INCHES FROM NORTH FACE OF PIER 1 IS BENT EASTWARD 21 INCHES HIGH X UP TO 3/4 INCH WIDE AND BENT NORTH 7 INCHES (2016 SUPPLEMENTAL INSPECTION)

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	20	Span 2 Beam 2: (PAR) 2023 no apparent changes since previous inspections ----------BEAM 2 SPAN 2 BENT EASTWARD 10 INCHES AT POINT OF IMPACT. POINT OF IMPACT IS 19 FEET FROM NORTH OF PIER 1. BEAM. 2 HAS A 1 1/4 INCH BEND EAST UP TO 14 FEET WIDE AT POINT OF IMPACT. THE BEAM IS TWISTED 26 FEET STARTING AT PIER 1. THE BEAM HAS PULLED AWAY 1/12 INCH AT TOP. THE METAL INTERMEDIATE. DIAPHRAGM BAY 1 AT THE BEAM 2 CONNECTION IS BENT EAST 1 INCH AT BOTTOM FOR 3 INCHES HIGH. THE METAL INTERMEDIATE. DIAPHRAGM IN BAY 2 AT THE BEAM 2 CONNECTION IS BENT EAST FOR 1 INCH AT BOTTOM FOR 3 INCHES HIGH (2016 SUPPLEMENTAL INSPECTION).

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 2 inch), with adjacent pitting (up to 1/8 inch), with corrosion reinitiated
2	Distortion	15	Span 2 Beam 3: (PAR) 2023 no apparent changes since previous inspections ----------BEAM 3 SPAN 2 PULLED AWAY FROM DECK UP TO 1/2 INCH STARTING AT 10 FEET PIER 1 NORTH FACE FOR 17 FEET LONG. POINT OF IMPACT IS 19 FEET-1 INCH FROM NORTH FACE OF PIER 1. THERE ARE TWO GOUGES 5 1/2 INCHES LONG X 1/4 INCH DEEP AT 18 FEET-6 INCHES ALONG THE BOTTOM FLANGE (2016 SUPPLEMENTAL INSPECTION).

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 4: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 8 inch x 2 inch), with adjacent pitting (up to 1/8

Priority Actions Request

Structure Number **110147**

			inch), with corrosion reinitiated
2	Distortion	12	Span 2 Beam 4: (PAR) 2023 no apparent changes since previous inspections ----------2021 new impact damage to bottom flange, 2 feet wide with 3 inch upward deflection of West and 1 inch downward deflection of East side of bottom flange, request supplemental damage inspection ----------beam 4 span 2-Indentions in flange on beam 4 are 1/2 inch X 1/16 inch +/- at 18 feet-11 inches, one 1 1/2 inches X 1/16 inch +/- at 18 feet-7 inches, one 2 inches X 1/16 inch +/- at 17 feet-9 inches, one 3 inches X 1/16 inch +/- at 15 feet-8 inches, one 1/2 inch X 1/16 inch +/- at 14 feet-8 inch, one 1/2 inch X 1/16 inch +/- at 14 feet-6 inches. one 1/2 inch X 1/16 inch +/- at 14 feet-3 inch, one 1 inch X 1/4 inch +/- at 14 feet-0 inch, one 1 inch X 1/16 inch +/- at 12 feet-6 inches all from face of bent 1. Gouge 1 1/4 inches X 11 inches X 1/16 inch +/- at 16 feet-9 inches from bent 1. beam 4 span 2 pulled away 1/2 inch starting at 6 inch from pier 1 for 21 feet (2016 SUPPLEMENTAL INSPECTION).

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	27	Span 2 Beam 5: (PAR) 2023 no apparent changes since previous inspections ----------Point of impact on beam 5 is 18 feet-3 inches from face of bent 1. Beam is bent downward 4 inches for 4 feet-9 inches long at point of impact. at bent eastward 13 inches long. 1 1/2 inches. Gouge 1 inch X 7 inches X 1/4 inch +/-, one 1/4 inch X 12 inches X 1/16 inch +/-, one 1 inch X 8 inches X 1/16 inch +/- all in impact area. Indentions 1 inch X 1/4 inch +/- at 18 feet-6 inches, one 1 inch X 1/16 inch +/- at 18 feet-0 inch, one 3 inches X 1/16 inches +/- at 24 feet-1 inch, one 1 inch X 1/16 inch +/- AT 22 feet-5 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-0 inch, one 1 inch X 1/4 inch +/- at 20 feet-2 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-6 inch, 1 1/2 inches X 1/16 inch +/- at 19 feet-4 inches, one 5 inches X 1/16 inches +/- at 18 feet-8 inches all from bent 1. Gouge in flange 1 inches X 6 inches X 1/4 inch +/- at 19 feet-3 inches, one 1/4 inch X 4 inches X 1/16 inch +/- at 20 feet-8 inches, one 3/4 inch X 3/4 inch X 1/16 inch +/- at 17 feet-4 inch, one 1 inch X 6 inches X 1/16 inch +/- at 17 feet-5 inches, one 1 inches X 7 inches X 1/16 inches +/- at 16 feet-7 inch, one 1 inch X 6 inches X 1/16 inch at 16 feet-0 inch all from bent 1. Indentions in damaged area, 1 inch X 1/16 inch +/- at 15 feet-10 inches, one 1/2 inch X 1/16 inch +/- and 15 feet-9 inches, one 1 inch X 1/16 inch +/- at 16 feet-3 inches, one 4 inches X 1/16 inch +/- at 15 feet-1 inch, one 2 inches X 1/16 inch +/- at 14 feet-10 inch, one 3 inches X 1/16 inches +/- at 14 feet-0 inch. beam has pulled away from deck 5/8 inch starting at pier 1 for 35 feet long. bay 4 INTERMEDIATE. metal diaphragm at the beam 5 connection has two bottom bolts missing at two loose bolts along the left. side and is bent east 1 inch for 4 inches high (2016 SUPPLEMENTAL INSPECTION).

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	90	Span 2 Wearing Surface: (PAR) throughout wearing surface, areas of delaminations (up to 18 inch diameter) with cracks (up to 1/4 inch); both travel lanes, spalls/failed patches (up to 4.5 feet x 4 feet x full depth)

Span3

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description

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

Priority Actions Request

Structure Number 110147

2	Delamination/Spall	10	Span 3 Deck: (PAR) top of deck, in northbound lane, at areas of missing asphalt, spalls/delaminations (up to 27 inch x 2 feet x 1.5 inch deep), some with exposed rusted rebar
2	Delamination/Spall	20	Span 3 Deck: (PAR) underside of bays 1 and 4, spalls/delaminations (up to 2 foot diameter x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 5 percent section loss
1	Efflorescence/Rust	900	Span 3 Deck: (PAR) BOTTOM OF DECK UP TO 1/32 INCH MAP CRACKING AT RANDOM THROUGHOUT SOME WITH EFFLORESCENCE AND RUST STAINS

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 8 inch x 2 inch)

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 up to 10 inch), with adjacent pitting (up to 1/8 inch), with corrosion reinitiated
2	Corrosion	1	Span 3 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 2 inch) with corrosion reinitiated

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 4: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 2 inch), with adjacent pitting (up to 1/8 inch), with corrosion reinitiated

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 3 Beam 5: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (7/16 inch average remaining x 9 inch x up to 15 inch); lower web (1/2 inch average remaining x 1 foot x 2 inch)
2	Corrosion	1	Span 3 Beam 5: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 2 inch) with corrosion reinitiated

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	60	Span 3 Wearing Surface: (PAR) throughout wearing surface, areas of delaminations (up to 3 feet x 2 feet) with cracks (up to 1/4 inch); northbound lane, spalls (up to 27 inch x 2 feet x full depth)

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

Priority Actions Request

Structure Number 110147

Span4

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
1	Efflorescence/Rust Staining	800	Span 4 Deck: (PAR) UP TO 1/32 INCH MAP CRACKING BOTTOM OF DECK some with efflorescence and rust stain

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 8 inch x 4 inch)

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 (3/8 inch average remaining x 3 inch x 1 inch) with corrosion reinitiated

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 3: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 9 inch x 2 inch), lower web (7/16 inch average remaining x 6 inch x 1 inch) with corrosion reinitiated

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 9 inch x 1.5 inches); lower web (7/16 inch average remaining x 4 inch x 2 inch) with corrosion reinitiated

Bent 1

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust Staining	12	End Bent 1 Cap 1: (PAR) in bays 1 and 4, delaminations (up to 6 feet x 10 inch) with cracks (up to 1/4 inch wide) and rust stains

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust Staining	25	Bent 1 Cap 1: (PAR) south and north faces, below all bays, delaminations (up to 5.5 feet x 6 inch) with cracks (up to 1/8 inch) and rust stains

Priority Actions Request

Structure Number 110147

3348 **Pile 5** Reinforced Concrete Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Bent 1 Pile 5: (PAR) west, east and south faces, spalls/delaminations (up to full height x 17 inch x 1 inch deep) with cracks (up to 1/8 inch) and exposed H-pile flanges; flanges have rust scale

3348 **Pile 6** Reinforced Concrete Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Bent 1 Pile 6: (PAR) west, east and south faces, spalls/delaminations (up to 11 feet x 18 inch x 1 inch deep) with cracks (up to 1/4 inch) and exposed H-pile flanges; flanges have rust scale

Bent 2

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
1	Efflorescence/Rust	20	Bent 2 Cap 1: (PAR) south and north faces, spalls/delaminations (up to 6 feet x 8 inch x 1 inch deep) with cracks (up to 1/8 inch), some with rust stains

3348 **Pile 2** Reinforced Concrete Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Bent 2 Pile 2: (PAR) west and east faces, near cap, spalls/delaminations (up to 5 feet x 6 inch x 2 inches deep) with cracks (up to 1/16 inch); H-pile flange exposed with rust scale

3348 **Pile 5** Reinforced Concrete Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Bent 2 Pile 5: (PAR) west and east faces, near cap, spalls/delaminations (6 feet x 6 inch x 2 inches deep) with cracks (up to 1/8 inch); H-pile flange exposed with rust scale

3348 **Pile 6** Reinforced Concrete Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Bent 2 Pile 6: (PAR) west and east faces, spalls/delaminations (up to full height x 8 inch x 3 inches deep) with cracks (up to 1/4 inch) with efflorescence; H-pile flange exposed with rust scale

Bent 3

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

Priority Actions Request

Structure Number 110147

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
1	Efflorescence/Rust	35	Bent 3 Cap 1: (PAR) south and north faces, below all bays, spalls/delaminations (up to 7 feet x 2 feet x 1/2 inch deep) with cracks (up to 1/16 inch) and rust stains

3348 **Pile 3** Reinforced Concrete Pile

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Bent 3 Pile 3: (PAR) southeast corner, near cap, spall/delamination (7 feet x 6 inch x 1.5 inch deep) with cracks (up to 1/16 inch) with east bottom flange exposed; flange has rust scale

3348 **Pile 5** Reinforced Concrete Pile

Priority Level	Defect Type	Quantity	Defect Description
1	Efflorescence/Rust	1	Bent 3 Pile 5: (PAR) southwest and southeast corners, at cap, delaminations (up to 3.5 feet x 1 foot) with cracks (up to 1/8 inch) and rust stains

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 (1 foot)
2		10	(PAR) northeast guardrail, near termination, area of impact damage (6 feet long); multiple decayed posts (up to 75 percent section loss) and twisted spacer blocks
2		1	(PAR) northwest guardrail attachment, improper lap
2		1	(PAR) southwest guardrail termination, impact damage (1 foot)

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

Element Condition and Maintenance Data

Structure Number: **110147** Inspection Date: **08/14/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,258	0	0	1,258	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	(PAR) throughout top of deck, at areas of missing asphalt, spalls/delaminations (up to 2 foot x 1 foot x 1.5 inch deep), some with exposed rusted rebar	3	7	7	Square Feet
☑ **12**	Delamination/Spall	at bent 1, bay 3 end diaphragm, spall/delamination (2.5 feet x 8 inch x 2 inches deep) with exposed rusted rebar	3		3	Square Feet
☑ **12**	Efflorescence/Rust Staining	(PAR) BOTTOM OF DECK UP TO 1/32 INCH MAP CRACKING AT RANDOM THROUGHOUT SOME WITH EFFLORESCENCE AND RUST STAINS	3	1,231	1,231	Square Feet
☑ **12**	Exposed Rebar	(PAR) underside of bays 1 and 4, and both overhangs at bent 1, spalls/delaminations (up to 2.5 feet x 15 inch x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss	3	20	20	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	36	0	34	2	0	Feet
515	Steel Protective Coating	358	322	0	34	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	at bent 1, painted over section loss: web adjacent to diaphragm (1/2 inch average remaining x 6 inch x 3 inch), lower web (1/2 inch average remaining x 13 inch x 4 inch) with corrosion reinitiated; bottom flange, corrosion with section loss (0.85 inch average remaining x 8 inches)	3	2	2	Feet
☑ **107**	Corrosion	along the east top flange, surface rust at random	2	34		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, surface rust/corrosion with section loss	4	2	2	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the east top flange, surface rust at random	3	34	34	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	36	30	5	1	0	Feet
515	Steel Protective Coating	358	352	0	6	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 adjacent pitting (up to 1/8 inch deep) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the top flange, freckled rust at random	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, freckled rust at random; at bent 1, surface rust	3	6	6	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	36	25	10	0	1	Feet
515	Steel Protective Coating	358	347	0	11	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 2 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2	10		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random	3	10	10	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 1, surface rust	3	1	1	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	36	25	10	0	1	Feet
515	Steel Protective Coating	358	347	0	11	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 1, web adjacent to diaphragm, panted over section loss (3/8 inch average remaining x 9 inch x 4 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2	10		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random; at bent 1, surface rust	3	11	11	Square Feet

General Comments

Span 1 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	36	0	35	1	0	Feet
515	Steel Protective Coating	358	322	0	36	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 2 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2	35		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random; at bent 1, surface rust	3	36	36	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	37	32	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	LEFT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL AND DELAMINATED [up to 3 inch x 1 inch deep] WITH REBAR EXPOSED [no section loss]	2	5	5	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	37	31	0	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	at corner of sidewalk adjacent to end bent 1, spall [18 inch x 10 inch x 4 inch deep] no exposed rusted reinforcing	3	2	2	Feet
☑ **331**	Delamination/Spall	RIGHT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL AND DELAMINATED [up to 8 inch x 2 inch x 1 inch deep diameter] WITH SOME REBAR EXPOSED [no section loss]	3	4	4	Feet

General Comments

Structure Number: **110147** Inspection Date: **08/14/2023**

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	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	SPAN 1 NEAR BEARING HAS RUST SCALE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	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	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 1 FAR BEARING HAS RUST SCALE/PACK RUST	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	4	1	1	Square Feet

General Comments

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	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 1 NEAR BEARING HAS SCATTERED SURFACE RUST.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	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	SPAN 1 FAR BEARING HAS RUST SCALE/PACK RUST	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	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	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 1 NEAR BEARING HAS SCATTERED SURFACE RUST.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	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	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 1 FAR BEARING HAS 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 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	SPAN 1 NEAR BEARING HAS SCATTERED SURFACE RUST.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	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	SPAN 1 FAR BEARING HAS 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 1 — Near Bearing 5

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 1/4 inch deep) with corrosion reinitiated	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 — Far Bearing 5

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	painted over section loss (up to 3/16 inch deep) with corrosion reinitiated; pack rust	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	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	1,258	882	0	226	150	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) throughout wearing surface, areas of delaminations (up to 3.5 foot diameter) with cracks (up to 1/4 inch); both travel lanes, spalls/failed patches (up to 7 feet x 4 feet x full depth)	4	150	159	Square Feet
☑ **510**	Crack (Wearing Surface)	over end bent 1, transverse cracks (up to 3/4 inch x full width of roadway) with edge spalls (up to 2 inch wide x 1 inch deep) and vegetation	3	26	26	Square Feet
☑ **510**	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED MAP/TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/4 INCH X 8 FEET.	3	200	200	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	1,785	842	8	935	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	(PAR) throughout top of deck, at areas of missing asphalt, spalls/delaminations (up to 28 inch x 1 foot x 1.5 inch deep), some with exposed rusted rebar	3	15	15	Square Feet
☑ **12**	Delamination/Spall	at bent 1, end diaphragm in all bays, spalls/delaminations (up to full bay width x 8 inch wide x 2 inches deep) with exposed rusted rebar with cracks (up to 1/16 inch) with efflorescence	3		20	Square Feet
☑ **12**	Efflorescence/Rust Staining	(PAR) BOTTOM OF DECK HAIRLINE MAP CRACKING SOME WITH EFFLORESCENCE AND RUST STAINS.	3	900	900	Square Feet
☑ **12**	Exposed Rebar	(PAR) underside of bays 1 and 4, and left overhangs at bent 2, spalls/delaminations (up to 2.5 feet x 2 feet x 3 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss	3	20	20	Square Feet
☑ **12**	Cracking (RC and Other)	THERE ARE 2 CRACKS UP TO 1/32 INCH WITH EFFLORESCENCE IN THE RIGHT OVERHANG ABOVE POINT OF IMPACT	2	8	8	Square Feet
☑ **12**	Delamination/Spall	(combined with other notes 2023) BOTTOM OF DECK BAY 4. HAS SCATTERED AREAS THAT ARE CRACK/SPALL AND DELAMINATED WITH REBAR EXPOSED. AREAS ARE: 6 INCH x 10 INCH x 1/2 INCH DEEP UP TO 24 INCH x 30 INCH x 1 INCH DEEP.	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	52	0	0	52	0	Feet
515	Steel Protective Coating	512	506	0	6	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Damage	impact damage	4			Feet

☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 4 inch x 5 inch); bottom flange, painted over pitting (up to 1/8 inch deep x 1.5 feet) with corrosion reinitiated	3		2	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, corrosion with section loss (9/16 inch average remaining x 8 inch x 1 inch)	3		1	Feet
☑ **107**	Distortion	(PAR) 2023 heat straightened and repainted with no apparent new damage, previously noted as: ---------- ----------2021 new impact damage to bottom flange, 2 feet wide with 1 inch upward deflection of West side of bottom flange, request supplemental damage inspection --------- ----------BEAM 1 SPAN 2 OUT OF PLUMB 16 INCHES ALONG THE BOTTOM FLANGE AT 18 FEET-8 INCH NORTH FACE OF BENT 1. THE left. FLANGE IS BENT UPWARD OVER 30 INCHES OVER POINT OF IMPACT. 1 GOUGE IN THE DAMAGED AREA IS 2 INCHES X 1 INCH DEEP AT 18 FEET-3 INCHES FROM FACE OF CAP , 1 GOUGE IS 1 1/2 INCHES X 3/4 INCH DEEP AT 19 FEET FROM FACE OF CAP. TOP FLANGE IS TWISTED 4 INCHES AT THE POINT OF IMPACT. THE EXTERIOR left. CONCRETE DIAPHRAGM AT BEAM. 1 SPAN 2 HAS 1/8 INCH CRACK FOR FULL WIDTH AND LENGTH WITH SPALLING PRESENT WITH EXPOSED REBAR ALONG THE FACE OF THE GIRDER 2 FEET HIGH X 7 INCHES WIDE UP TO 6 INCHES DEEP. BEAM 1 SPAN 2 HAS SHIFTED EAST 2 INCHES. THE INTERIOR CONCRETE DIAPHRAGM IN BAY 1 AT PIER 1 BETWEEN beams. 1 AND 2 SPALLED WITH EXPOSED REBAR 22 INCHES HIGH X 22 INCHES WIDE X 3 INCHES DEEP. INTERIOR METAL DIAPHRAGM IN BAY 1 AT 25 FEET-9 INCHES FROM NORTH FACE OF PIER 1 IS BENT EASTWARD 21 INCHES HIGH X UP TO 3/4 INCH WIDE AND BENT NORTH 7 INCHES (2016 SUPPLEMENTAL INSPECTION)	3	52	52	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random; at bent 1, surface rust	3	6	6	Square Feet

General Comments

Initial point of impact on beam 1 in span 2 is 18 feet-5 inches from face of bent 1, several small indentions in the impact area around 1 inch X 1/4 inch +/- deep. Beam is out of plum 7 1/8 inch and bent downward 3 1/4 inch +/- at 18 feet-5 inches from bent 1. Indentions in flange 1 1/2 inch 1/16 inch+/- at 17 feet-8 inches, one 2 inches X 1/4 inch +/- at 17 feet-6 inches, one 1/2 inch X 1/4 inch +/- at 18 feet-1 inch, one 2 inches X 1/16 inch +/- at 16 feet-9 inch, one 1/2 inch X 1/16 inch +/- AT 16 feet-4 inches, one 4 inches X 1/16 inch +/- at 15 feet-3 inches, one 1 inch X 1/16 inch +/- at 20 feet-2 inches, one 1 inch X 1/16 inch +/- at 23 feet-5 inches all from face of bent 1. Gouges in flange 1 inch X 1 1/2 inch X 1/4 inch +/- at 16 feet-8 inches, one 1 inch X 1 inch X 1/4 inch +/- at 14 feet-10 inch, one 1 1/4 inch X 1 inch X 1/4 inch +/- at 8 feet-7 inch, one 1 inch X 1/16 inch +/- at 14 feet-2 inches, one 1 inch X 1/16 inch at 14 feet-0 inches, all from bent 1. Beam 1 is bent upward 3/4 inches, with small indentions in the area nothing bigger than 1 1/2 inchX 1/16 inch +/- at 13 feet-3 inches from bent 1.

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	52	25	6	21	0	Feet
515	Steel Protective Coating	512	507	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, corrosion with section loss (9/16 inch average remaining x 9 inch x 1 inch)	3	1	1	Feet
☑ **107**	Damage	impact damage	3			Feet
☑ **107**	Distortion	(PAR) 2023 repainted with no apparent new damage; previously noted as: ---------- ---------- ----BEAM 2 SPAN 2 BENT EASTWARD 10 INCHES AT POINT OF IMPACT. POINT OF IMPACT IS 19 FEET FROM NORTH OF PIER 1. BEAM. 2 HAS A 1 1/4 INCH BEND EAST UP TO 14 FEET WIDE AT POINT OF IMPACT. THE BEAM IS TWISTED 26 FEET STARTING AT PIER 1. THE BEAM HAS PULLED AWAY 1/12 INCH AT TOP. THE METAL INTERMEDIATE. DIAPHRAGM BAY 1 AT THE BEAM 2 CONNECTION IS BENT EAST 1 INCH AT BOTTOM FOR 3 INCHES HIGH. THE METAL INTERMEDIATE. DIAPHRAGM IN BAY 2 AT THE BEAM 2 CONNECTION IS BENT EAST FOR 1 INCH AT BOTTOM FOR 3 INCHES HIGH (2016 SUPPLEMENTAL INSPECTION).	3	20	20	Feet
☑ **107**	Distortion	2023 repainted with no apparent new damage; previously noted as: ---------- ---------- SUPPLEMENTAL INSPECTION 2021: POINT OF IMPACT 8 INCHES LONG WTH A 1/2 INCH DEEP GOUGE AT 18 FEET-8 INCHES FROM interior. BENT 2 , WITH BEAM BEING SWEPT EASTWARD 1/2 INCH. SCATTERED SCRAPES ALONG THE BEAM (PAR) THERE IS A BENT UP SECTION ON THE WEST BOTTOM FLANGE 4 INCHES LONG X 1 INCH HIGH AT 20 FEET OUT FROM interior. BENT 1	3			Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2	5		Feet
☑ **107**	Corrosion	at bent 2, surface rust	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random	3	5	5	Square Feet

General Comments

Point of impact on bema 2 in span 2 is 19 feet-2 inches from face of bent 1. Gouge 1 1/4 inch X 3 inches X 1/16 inch +/- at 19 feet-2 inches, one 3/4 inch X 12 inch X 1/16 inch +/- from bent 1. Indentions is flange 2 1/2 inch X 1/4 inch +/- at 18 feet-6 inches, one 1/2 inch X 1/16 inch +/- at 17 feet-9 inches, one 2 inch X 1/16 inch +/- at 17 feet-7 inches, one 2 1/2 inch X 1/16 inch +/- at 17 feet-2 inches, one 1 inch X 1/16 inch +/- at 16 feet-8 inches, one 1/2 inch X 1/16 inch +/- at 16 feet-5 inches, one 1/2 inch X 1/16 inch +/- at 16 feet-2 inch, one 1/2 inch X 1/16 inch +/- at 15 feet-4 inches, one 1/2 inch X 1/16 inch +/- at 13 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 13 feet-5 inch, one 1 inch X 1/4 inch +/- at 12 feet-2 inches.

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	52	30	0	21	1	Feet
515	Steel Protective Coating	512	505	0	7	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 9 inch x 2 inch), with adjacent pitting (up to 1/8 inch deep), with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	3	5	5	Feet

☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Damage	impact damage	3			Feet
☑ **107**	Distortion	(PAR) 2023 repainted with no apparent new damage; previously noted as: ---------- ---------- ------BEAM 3 SPAN 2 PULLED AWAY FROM DECK UP TO 1/2 INCH STARTING AT 10 FEET PIER 1 NORTH FACE FOR 17 FEET LONG. POINT OF IMPACT IS 19 FEET-1 INCH FROM NORTH FACE OF PIER 1. THERE ARE TWO GOUGES 5 1/2 INCHES LONG X 1/4 INCH DEEP AT 18 FEET-6 INCHES ALONG THE BOTTOM FLANGE (2016 SUPPLEMENTAL INSPECTION).	3	15	15	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random	3	5	5	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bents 1 and 2, limited effectiveness surface corrosion present	3	2	2	Square Feet

General Comments

Indentions in flange on beam 3 are 1 1/2 inch X 1/16 inch +/- at 18 feet-7 inches, one 1 inch X 1/16 inch +/- at 17 feet-5 inches, one 1 inch X 1/16 inch +/- at 17 feet-4 inches, one 2 inch X 1/4 inch +/- at 16 feet-0 inch, one 1/2 inch X 1/4 inch at 15 feet-10 inches all from face of bent 1.

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	52	28	10	13	1	Feet
515	Steel Protective Coating	512	500	0	12	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 8 inch x 2 inch), with adjacent pitting (up to 1/8 inch deep), with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 1, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 9 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Damage	impact damage	3			Feet

☑ **107**	Distortion	(PAR) 2023 heat straightened and repainted with no apparent new damage; previously noted as: ---------- ---------- ----------2021 new impact damage to bottom flange, 2 feet wide with 3 inch upward deflection of West and 1 inch downward deflection of East side of bottom flange, request supplemental damage inspection ---------- ----------beam 4 span 2- Indentions in flange on beam 4 are 1/2 inch X 1/16 inch +/- at 18 feet-11 inches, one 1 1/2 inches X 1/16 inch +/- at 18 feet-7 inches, one 2 inches X 1/16 inch +/- at 17 feet-9 inches, one 3 inches X 1/16 inch +/- at 15 feet-8 inches, one 1/2 inch X 1/16 inch +/- at 14 feet-8 inch, one 1/2 inch X 1/16 inch +/- at 14 feet-6 inches. one 1/2 inch X 1/16 inch +/- at 14 feet-3 inch, one 1 inch X 1/4 inch +/- at 14 feet-0 inch, one 1 inch X 1/16 inch +/- at 12 feet-6 inches all from face of bent 1. Gouge 1 1/4 inches X 11 inches X 1/16 inch +/- at 16 feet-9 inches from bent 1. beam 4 span 2 pulled away 1/2 inch starting at 6 inch from pier 1 for 21 feet (2016 SUPPLEMENTAL INSPECTION).	3	12	12	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2	10		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random; at bents 1 and 2, surface rust	3	12	12	Square Feet

General Comments

Indentions in flange on beam 4 are 1/2 inch X 1/16 inch +/- at 18 feet-11 inches, one 1 1/2 inch X 1/16 inch +/- at 18 feet-7 inches, one 2 inch X 1/16 inch +/- at 17 feet-9 inches, one 3 inch X 1/16 inch +/- at 15 feet-8 inches, one 1/2 inch X 1/16 inch +/- at 14 feet-8 inches, one 1/2 inch X 1/16 inch +/- at 14 feet-6 inches. one 1/2 inch X 1/16 inch +/- at 14 feet-3 inches, one 1 inch X 1/4 inch +/- at 14 feet-0 inch, one 1 inch X 1/16 inch +/- at 12 feet-6 inches all from face of bent 1. Gouge 1 1/4 inch X 11 inch X 1/16 inch +/- at 16 feet-9 inches from bent 1.

Span 2 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	52	18	5	29	0	Feet
515	Steel Protective Coating	512	505	0	7	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 (9/16 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 (1/2 inch average remaining x 5 inches x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Damage	impact damage	3			Feet

☑ **107**	Distortion	(PAR) 2023 repainted with no apparent new damage; previously noted as: ---------- -----Point of impact on beam 5 is 18 feet-3 inches from face of bent 1. Beam is bent downward 4 inches for 4 feet-9 inches long at point of impact. at bent eastward 13 inches long. 1 1/2 inches. Gouge 1 inch X 7 inches X 1/4 inch +/-, one 1/4 inch X 12 inches X 1/16 inch +/-, one 1 inch X 8 inches X 1/16 inch +/- all in impact area. Indentions 1 inch X 1/4 inch +/- at 18 feet-6 inches, one 1 inch X 1/16 inch +/- at 18 feet-0 inch, one 3 inches X 1/16 inches +/- at 24 feet-1 inch, one 1 inch X 1/16 inch +/- AT 22 feet-5 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-0 inch, one 1 inch X 1/4 inch +/- at 20 feet-2 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-6 inch, 1 1/2 inches X 1/16 inch +/- at 19 feet-4 inches, one 5 inches X 1/16 inches +/- at 18 feet-8 inches all from bent 1. Gouge in flange 1 inches X 6 inches X 1/4 inch +/- at 19 feet-3 inches, one 1/4 inch X 4 inches X 1/16 inch +/- at 20 feet-8 inches, one 3/4 inch X 3/4 inch X 1/16 inch +/- at 17 feet-4 inch, one 1 inch X 6 inches X 1/16 inch +/- at 17 feet-5 inches, one 1 inches X 7 inches X 1/16 inches +/- at 16 feet-7 inch, one 1 inch X 6 inches X 1/16 inch at 16 feet-0 inch all from bent 1. Indentions in damaged area, 1 inch X 1/16 inch +/- at 15 feet-10 inches, one 1/2 inch X 1/16 inch +/- and 15 feet-9 inches, one 1 inch X 1/16 inch +/- at 16 feet-3 inches, one 4 inches X 1/16 inch +/- at 15 feet-1 inch, one 2 inches X 1/16 inch +/- at 14 feet-10 inch, one 3 inches X 1/16 inches +/- at 14 feet-0 inch. beam has pulled away from deck 5/8 inch starting at pier 1 for 35 feet long. bay 4 INTERMEDIATE. metal diaphragm at the beam 5 connection has two bottom bolts missing at two loose bolts along the left. side and is bent east 1 inch for	3	27	27	Feet
☑ **107**	Distortion	2023 repainted with no apparent new damage; previously noted as: ---------- 2021 SUPPLEMENTAL INSPECTION 2021 : BEAM 5 SPAN 2 POINT OF IMPACT 10 INCHES LONG X 1 INCH HIGH AT 14 FEET10 INCHES OUT FROM interior. BENT 2 , WITH THE BEAM BEING SWEPT EAST WARD UP TO 3 INCHES .SCATTERD SCRAPES ALONG THE BOTTOM FLANGE . PREVIOUS IMPACT DAMAGE AS NOTED IN THE ADDITIONAL COMMENTS SECTION.	3			Feet
☑ **107**	Corrosion	along the top flange, freckled rust/surface rust at random	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, freckled rust/surface rust at random; at bents 1 and 2, surface rust	3	7	7	Square Feet

General Comments

Point of impact on beam 5 is 18 feet-3 inches from face of bent 1. Beam is bent upward 1 1/2 inch +/- and out of plum 2 7/8 inches +/- in direction of traffic, at 18 feet-3 inches from bent 1. Gouge 1 inch X 7 inch X 1/4 inch +/-, one 1/4 inch X 12 inch X 1/16 inch +/-, one 1 inch X 8 inch X 1/16 inch +/- all in impact area. Indentions 1 inch X 1/4 inch +/- at 18 feet-6 inches, one 1 inch X 1/16 inch +/- at 18 feet-0 inch, one 3 inch X 1/16 inch +/- at 24 feet-1 inch, one 1 inch X 1/16 inch +/- AT 22 feet-5 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-0 inches, one 1 inch X 1/4 inch +/- at 20 feet-2 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-6 inches, 1 1/2 inch X 1/16 inch +/- at 19 feet-4 inches, one 5 inch X 1/16 inch +/- at 18 feet-8 inches all from bent 1. Gouge in flange 1 inch X 6 inch X 1/4 inch +/- at 19 feet-3 inches, one 1/4 inch X 4 inch X 1/16 inch +/- at 20 feet-8 inch, one 3/4 inch X 3/4 inch X 1/16 inch +/- at 17 feet-4 inches, one 1 inch X 6 inch X 1/16 inch +/- at 17 feet-5 inch, one 1 inch X 7 inch X 1/16 inch +/- at 16 feet-7 inch, one 1 inch X 6 inch X 1/16 inch at 16 feet-0 inch all from bent 1. Indentions in damaged area, 1 inch X 1/16 inch +/- at 15 feet-10 inches, one 1/2 inch X 1/16 inch +/- and 15 feet-9 inch, one 1 inch X 1/16 inch +/- at 16 feet-3 inch, one 4 inch X 1/16 inch +/- at 15 feet-1 inch, one 2 inch X 1/16 inch +/- at 14 feet-10 inch, one 3 inch X 1/16 inch +/- at 14 feet-0 inch

Span 2 — Expansion Joint 1

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	26	7	4	0	15	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**301**	Seal Damage	along the length of the joint, areas of deteriorated seal	4	15	15	Feet
☑	**301**	Debris Impaction	JOINT OVER BENT 1 HAS DEBRIS IMPACTION IN BOTH SHOULDERS.	2	4		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	53	50	0	3	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**331**	Delamination/Spall	along the length of the rail, spalls (up to 14 inch x 4 inch x 1 inch deep), some with exposed rusted rebar	3	3	3	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	53	25	8	20	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**331**	Cracking (RC and Other)	sidewalk near bent 1, longitudinal/map cracks (up to 1/32 inch)	3	20	20	Feet
☑	**331**	Delamination/Spall	SPAN 2 RIGHT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL [up to 6 inch x 3 inch x 1 inch deep] AND DELAMINATED WITH REBAR EXPOSED [no section loss]	2	8	8	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	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	SPAN 2 BEAM NEAR BEARING HAS RUST SCALE	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	rust scale	4	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 FAR BEARING HAS 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 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	SPAN 2 BEAM NEAR BEARING HAS 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 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	SPAN 2 FAR BEARING HAS RUST SCALE/PACK RUST.	3	1	1	Each
☑	515	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **313**	Corrosion	SPAN 2 BEAM NEAR BEARING FRECKLED RUST	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	SPAN 2 FAR BEARING HAS RUST SCALE/PACK RUST.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	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	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	SPAN 2 BEAM NEAR BEARING HAS SURFACE RUST	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	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	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 FAR BEARING HAS RUST SCALE/PACK RUST.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 5

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	painted over section loss (up to 3/16 inch deep) with corrosion reinitiated; pack rust	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 5

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 FAR BEARING HAS RUST SCALE/PACK RUST.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	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	1,785	1,445	0	250	90	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) throughout wearing surface, areas of delaminations (up to 18 inch diameter) with cracks (up to 1/4 inch); both travel lanes, spalls/failed patches (up to 4.5 feet x 4 feet x full depth)	4	90	90	Square Feet
☑ **510**	Crack (Wearing Surface)	WEARING SURFACE HAS SCATTERED MAP/TRANSVERSE AND LONGITUDINAL CRACKS [up to 12 feet x UP TO 1/8 INCH]	3	250	250	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	1,785	855	0	930	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **12**	Delamination/Spall	(PAR) top of deck, in northbound lane, at areas of missing asphalt, spalls/delaminations (up to 27 inch x 2 feet x 1.5 inch deep), some with exposed rusted rebar	3	10	10	Square Feet
☑ **12**	Delamination/Spall	(PAR) underside of bays 1 and 4, spalls/delaminations (up to 2 foot diameter x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 5 percent section loss	3	20	20	Square Feet
☑ **12**	Delamination/Spall	at bent 2, end diaphragms in all bays and overhangs, spalls/delaminations (up to full bay width x 8 inch x 2 inches) with exposed rusted rebar and cracks (up to 1/16 inch)	3		30	Square Feet
☑ **12**	Efflorescence/Rust Staining	(PAR) BOTTOM OF DECK UP TO 1/32 INCH MAP CRACKING AT RANDOM THROUGHOUT SOME WITH EFFLORESCENCE AND RUST STAINS	3	900	900	Square Feet
☑ **12**	Delamination/Spall	(combined with other notes 2023) - SPAN 3 BOTTOM OF DECK BAY 4. HAS SCATTERED AREA THAT ARE CRACK/SPALL AND DELAMINATED WITH SOME REBAR EXPOSED, section loss up to 1/8 inch. AREAS ARE: 10 INCH x 12 INCH UP TO 36 INCH x 30 INCH. SPALLS ARE UP TO 1 INCH DEEP.	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	53	6	45	1	1	Feet
515	Steel Protective Coating	519	473	0	46	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 (7/16 inch average remaining x 8 inch x 2 inch)	4	1	1	Feet
☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along top flange, active surface corrosion along edge of flange	2	45		Feet
☑ **107**	Connection	(2023 defect moved to deck) at near end diaphragm, spall, full width x 6 inch x 4 inch, with exposed rusted reinforcing, section loss up to 1/8 inch	1			Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along edge of top flange, surface rust; at bent 2, surface rust	3	46	46	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	53	51	0	2	0	Feet
515	Steel Protective Coating	519	518	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	at bent 2, web adjacent to diaphragm, corrosion with section loss (1/2 inch average remaining x 9 inch x 2 inch)	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
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, surface rust	3	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	53	46	5	0	2	Feet
515	Steel Protective Coating	519	512	0	7	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 up to 10 inch), with adjacent pitting (up to 1/8 inch deep), with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 2 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	along top flange, active surface corrosion along edge of flange	2	5		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along top flange, surface rust	3	5	5	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bents 2 and 3, limited effectiveness surface corrosion present	3	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	53	21	30	1	1	Feet
515	Steel Protective Coating	519	487	0	32	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 9 inch x 2 inch), with adjacent pitting (up to 1/8 inch deep), with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	at bent 3, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 8 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2	30		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random; at bents 2 and 3, surface rust	3	32	32	Square Feet

General Comments

Span 3 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	10	40	0	3	Feet
515	Steel Protective Coating	519	478	0	41	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 2, painted over section loss: web adjacent to diaphragm (7/16 inch average remaining x 9 inch x up to 15 inch); lower web (1/2 inch average remaining x 1 foot x 2 inch)	4	2	2	Feet
☑ **107**	Corrosion	(PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 2 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	along edge of top flange, surface rust	2	40		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along top flange, surface rust; at bent 3, surface rust	3	41	41	Square Feet

General Comments

Span 3 Expansion Joint 2

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	26	0	0	0	26	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	along the length of the joint, areas of deteriorated seal	4	26	26	Feet
☑ **301**	Debris Impaction	EXPANSION JOINT OVER BENT 2 HAS SCATTERED AREAS OF DEBRIS IMPACTION.	2			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	53	48	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	LEFT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL [up to 3 inch diameter x up to 1 inch deep] AND DELAMINATED WITH REBAR EXPOSED [no section loss]	2	5	5	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	53	44	0	9	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	SPAN 3 RIGHT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL [up to 1 foot x 3 inch x 1 inch deep diameter] AND DELAMINATED WITH REBAR EXPOSED [no section loss]	3	9	9	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	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 3 NEAR BEARING HAS RUST SCALE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	4	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	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 FAR BEARING HAS PACK RUST.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	pack rust	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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 3 NEAR BEARING HAS FRECKLED RUST.	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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	SPAN 3 FAR BEARING HAS RUST SCALE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	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	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	SPAN 3 NEAR BEARING HAS 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 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	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	SPAN 3 FAR BEARING HAS RUST SCALE.	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale	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	1	0	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	SPAN 3 NEAR BEARING HAS FRECKLED RUST.	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	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	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	SPAN 3 FAR BEARING HAS RUST SCALE	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet

General Comments

Span 3 — Near Bearing 5

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	painted over section loss (up to 3/16 inch deep) with corrosion reinitiated; pack rust	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 5

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 FAR BEARING HAS RUST SCALE/PACK RUST	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	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	1,785	1,505	0	220	60	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Delamination/Spall (Wearing Surfaces)	(PAR) throughout wearing surface, areas of delaminations (up to 3 feet x 2 feet) with cracks (up to 1/4 inch); northbound lane, spalls (up to 27 inch x 2 feet x full depth)	4	60	60	Square Feet
☑ **510**	Crack (Wearing Surface)	SPAN 3 WEARING SURFACE HAS SCATTERED MAP/TRANSVERSE AND LONGITUDINAL CRACKS [up to 10 feet x UP TO 1/8 INCH]	3	220	220	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	1,431	616	0	815	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	at bent 3, bay 2 end diaphragm, delamination (2 feet x 8 inch) with cracks (up to 1/16 inch)	3		2	Square Feet
☑ **12**	Delamination/Spall	(PAR) underside of bays 1 and 4, and both overhangs at bent 1, spalls/delaminations (up to 15 inch x 1 foot x 1/2 inch deep)	3	10	10	Square Feet
☑ **12**	Delamination/Spall	top of deck, at end bent 2, at areas of missing wearing surface, edge spalls (up to 1.5 feet x 2 inch x 1 inch deep)	3	5	5	Square Feet
☑ **12**	Efflorescence/Rust Staining	(PAR) UP TO 1/32 INCH MAP CRACKING BOTTOM OF DECK some with efflorescence and rust stain	3	800	800	Square Feet
☑ **12**	Cracking (RC and Other)	(combined with other notes 2023) at multiple locations throughout all overhangs in all spans, hairline cracks	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	42	26	15	0	1	Feet
515	Steel Protective Coating	408	393	0	15	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 (7/16 inch average remaining x 8 inch x 4 inch)	4	1	1	Feet
☑ **107**	Corrosion	along top flange, active surface corrosion along edge of flange	2	15		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	15	15	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	42	41	0	0	1	Feet
515	Steel Protective Coating	408	407	0	1	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 (3/8 inch average remaining x 3 inch x 1 inch) with corrosion reinitiated	4	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, surface rust	3	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	42	35	6	0	1	Feet
515	Steel Protective Coating	408	401	0	7	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 9 inch x 2 inch), lower web (7/16 inch average remaining x 6 inch x 1 inch) with corrosion reinitiated	4	1	1	Feet
☑ **107**	Corrosion	along top flange, active surface corrosion along edge of flange	2	6		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	7	7	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	42	41	0	0	1	Feet
515	Steel Protective Coating	408	407	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	(PAR) at bent 3, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 9 inch x 1.5 inches); lower web (7/16 inch average remaining x 4 inch x 2 inch) with corrosion reinitiated	4	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	at bent 3, surface rust	3	1	1	Square Feet

General Comments

Span 4 — Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	26	15	1	0	Feet
515	Steel Protective Coating	408	392	0	16	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 3 inch x 1 inch) with corrosion reinitiated	3	1	1	Feet
☑ **107**	Corrosion	along the top flange, surface rust at random	2	15		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	along the top flange, surface rust at random; at bent 3, surface rust	3	16	16	Square Feet

General Comments

Span 4 — Expansion Joint 3

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	26	0	0	0	26	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	along the length of the joint, areas of deteriorated seal	4	26	26	Feet
☑ **301**	Debris Impaction	EXPANSION JOINT OVER BENT 3 HAS DEBRIS IMPACTION IN BOTH SHOULDERS.	2			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	43	21	3	19	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	SPAN 4 LEFT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL [up to 18 inch x 2 inch x 1 inch deep] AND DELAMINATED WITH REBAR EXPOSED [no section loss]	3	19	19	Feet
☑ **331**	Exposed Rebar	top of rail, at end bent 2, shallow rebar	2	3	3	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	43	34	9	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	RIGHT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL [up to 18 inch x 2 inch x 1 inch deep] AND DELAMINATED WITH REBAR EXPOSED [no section loss]	2	5	5	Feet
☑ **331**	Exposed Rebar	near top of rail, near bent 3, shallow rebar	2	4	4	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	SPAN 4 NEAR BEARING HAS RUST SCALE/PACK RUST.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	SPAN 4 FAR BEARING HAS SURFACE RUST	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	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	SPAN 4 NEAR BEARING HAS PACK RUST.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	pack rust	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	SPAN 4 FAR BEARING HAS 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	SPAN 4 NEAR BEARING HAS RUST SCALE/PACK RUST.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	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	SPAN 4 FAR BEARING HAS 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	SPAN 4 NEAR BEARING HAS PACK RUST.	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	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	SPAN 4 FAR BEARING HAS FRECKLED RUST.	2	1		Each
☑ 515	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet

General Comments

Span 4 — Near Bearing 5

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 4 NEAR BEARING HAS RUST SCALE/PACK RUST.	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	rust scale/pack rust	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing 5

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	SPAN 4 FAR BEARING HAS SURFACE RUST.	2	1		Each

☑ **515**	Effectiveness (Steel Protective Coatings)	surface rust	3	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	1,431	1,305	0	126	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	over end bent 2, transverse crack (up to 1 inch wide x full width of roadway) with edge spalls (up to 3 inch wide x 1.5 inch deep) and vegetation	3	26	26	Square Feet
☑ **510**	Crack (Wearing Surface)	SPAN 4 WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS [up to 5 feet x UP TO 1/4 INCH]	3	100	100	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	(2023 defect moved to general comments) along length, depressed asphalt [up to 25 feet x up to 3 feet x up to 6 inches deep]	1			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	36	24	12	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	HAIRLINE MAP CRACKING AT RANDOM THROUGHOUT.	2	12		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	34	22	0	12	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) in bays 1 and 4, delaminations (up to 6 feet x 10 inch) with cracks (up to 1/4 inch wide) and rust stains	3	12	12	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	30	14	0	16	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) south and north faces, below all bays, delaminations (up to 5.5 feet x 6 inch) with cracks (up to 1/8 inch) and rust stains	3	16	25	Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) NORTH FACE AND SOUTH FACE AT PILE 6. HAS A CRACKED AND DELAMINATED AREA WITH SOME EFFLO AND RUST STAIN VISIBLE. AREA IS: FROM BOTTOM EDGE UP 6 INCHES x 44 INCHES.	1			Feet
☑ **234**	Delamination/Spall	(combined with other notes 2023) TOP AND NORTH FACE BAY 4. HAS A AREA THAT IS CRACKED AND DELAMINATED WITH RUST STAINS VISIBLE. AREA IS: FROM EDGE BACK 9 INCHE, FROM EDGE DOWN 9 INCHES x 72 INCHES.	1			Feet

General Comments

Bent 1 Pile 1

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	northeast corner, near mid-height, (2) spalls (up to 10 inch x 4 inch x 1 inch deep)	3	1	1	Each
☑ **227**	Delamination/Spall	northwest corner, adjacent to cap, delamination (2.5 feet x 6 inch) with cracks (up to 1/32 inch)	2		1	Each

General Comments

Bent 1 Pile 2

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	west, east and south faces, near cap, spalls/delaminations (up to 5.5 feet x 8 inch x 1 inch deep) with cracks (up to 3/16 inch)	3	1	1	Each

General Comments

Bent 1 Pile 3

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Cracking (RC and Other)	all faces, near cap, delaminations (up to 6 feet x full width) with cracks (up to 1/8 inch)	3	1	1	Each

General Comments

Bent 1 Pile 4

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Cracking (RC and Other)	west, east and south faces, delaminations (up to 5 feet x 16 inch) with cracks (up to 1/16 inch)	3	1	1	Each

General Comments

Bent 1 Pile 5

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	(PAR) west, east and south faces, spalls/delaminations (up to full height x 17 inch x 1 inch deep) with cracks (up to 1/8 inch) and exposed H-pile flanges; flanges have rust scale	3	1	1	Each

General Comments

Bent 1 Pile 6

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	(PAR) west, east and south faces, spalls/delaminations (up to 11 feet x 18 inch x 1 inch deep) with cracks (up to 1/4 inch) and exposed H-pile flanges; flanges have rust scale	3	1	1	Each

General Comments

Bent 1 — Pile 7

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Cracking (RC and Other)	west and east faces, near cap, delaminations (up to 2 feet x 1 fill face) with cracks (up to 1/16 inch)	3	1	1	Each

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	30	15	0	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) south and north faces, spalls/delaminations (up to 6 feet x 8 inch x 1 inch deep) with cracks (up to 1/8 inch), some with rust stains	3	15	20	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) UP TO 1/16 INCH HORIZONTAL CRACKS SOME WITH RUST STAINS AT RANDOM THROUGHOUT ALL FACES	1			Feet

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	36	30	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	up to 8 INCH x UP TO 1/32 INCH VERTICAL AND DIAGONAL CRACKS AT BEAM ENDS	2	6		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	34	26	8	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	up to full height x UP TO 1/64 INCH VERTICAL CRACKS, AT RANDOM, some wraparound	2	8		Feet

General Comments

Bent 2 Pile 1

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	west and east face, near cap, delaminations (up to 2 feet x 6 inch) with cracks (up to 1/32 inch)	2	1	1	Each

General Comments

Bent 2 Pile 2

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	(PAR) west and east faces, near cap, spalls/delaminations (up to 5 feet x 6 inch x 2 inches deep) with cracks (up to 1/16 inch); H-pile flange exposed with rust scale	3	1	1	Each

General Comments

Bent 2 Pile 3

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Cracking (RC and Other)	west, east and south face, near cap, delaminations (up to 4 feet x 6 inch) with cracks (up to 1/16 inch)	3	1	1	Each

General Comments

Bent 2 Pile 4

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Cracking (RC and Other)	west, east and south face, near cap, delaminations (up to 4 feet x 6 inch) with cracks (up to 1/16 inch)	3	1	1	Each

General Comments

Bent 2 Pile 5

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	(PAR) west and east faces, near cap, spalls/delaminations (6 feet x 6 inch x 2 inches deep) with cracks (up to 1/8 inch); H-pile flange exposed with rust scale	3	1	1	Each

General Comments

Bent 2 Pile 6

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	(PAR) west and east faces, spalls/delaminations (up to full height x 8 inch x 3 inches deep) with cracks (up to 1/4 inch) with efflorescence; H-pile flange exposed with rust scale	3	1	1	Each

General Comments

Bent 2 Pile 7

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Cracking (RC and Other)	southwest and north faces, delaminations (up to 3.5 inch x 6 inch) with cracks (up to 1/16 inch)	3	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	30	5	0	25	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) south and north faces, below all bays, spalls/delaminations (up to 7 feet x 2 feet x 1/2 inch deep) with cracks (up to 1/16 inch) and rust stains	3	25	35	Feet
☑ **234**	Cracking (RC and Other)	(combined with other notes 2023) along north and South face, multiple horizontal cracks, up to 4 feet x up to 1/8 inch, some with rust stain	1			Feet

General Comments

Bent 3 Pile 1

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	southeast corner, at cap, delamination (1.5 feet x 6 inch) with cracks (up to 1/32 inch)	2	1	1	Each

General Comments

Bent 3 Pile 2

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	southwest and southeast corners, at cap, delaminations (up to 15 inch x 6 inch) with cracks (up to 1/32 inch)	2	1	1	Each

General Comments

Bent 3 Pile 3

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	(PAR) southeast corner, near cap, spall/delamination (7 feet x 6 inch x 1.5 inch deep) with cracks (up to 1/16 inch) with east bottom flange exposed; flange has rust scale	3	1	1	Each

General Comments

Bent 3 Pile 4

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Cracking (RC and Other)	southwest and southeast corners, at cap, delaminations (up to 4.5 feet x 6 inch) with cracks (up to 1/16 inch)	3	1	1	Each

General Comments

Bent 3 Pile 5

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Efflorescence/Rust Staining	(PAR) southwest and southeast corners, at cap, delaminations (up to 3.5 feet x 1 foot) with cracks (up to 1/8 inch) and rust stains	3	1	1	Each

General Comments

Bent 3 Pile 6

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	southwest corner, at cap, spall/delamination (4 feet x 10 inch x 1/2 inch deep) with cracks (up to 1/16 inch)	3	1	1	Each

General Comments

Bent 3 Pile 7

Reinforced Concrete Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
227	Reinforced Concrete Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **227**	Delamination/Spall	southwest corner, at cap, delamination (2 feet x 6 inch) with cracks (up to 1/32 inch)	2	1	1	Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1258
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	36
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	36
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	36
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	36
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	36
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	37
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	37
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1258
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	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1785
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	52
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	52
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Expansion Joint 1	Standard Joint	Pourable Joint Seal	26
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1785
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 2	Right Vertical Clearance Sign	Vertical Clearance	Regulatory Sign	1
Span 2	Left Vertical Clearance Sign	Vertical Clearance	Regulatory Sign	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1785
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	53

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	53
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	53
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Expansion Joint 2	Standard Joint	Pourable Joint Seal	26
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1785
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
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 3	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1431
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	42
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	42
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	42
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	42
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	42
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	43
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	43
Span 4	Expansion Joint 3	Standard Joint	Pourable Joint Seal	26
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1431
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	Near Bearing 5	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 5	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 1	Pile 1	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1	Pile 2	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1	Pile 3	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1	Pile 4	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1	Pile 5	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1	Pile 6	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1	Pile 7	Reinforced Concrete Pile	Reinforced Concrete Pile	1

Elements Verfied

Location	Name	Component	Element Name	Amount
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 2	Pile 1	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2	Pile 2	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2	Pile 3	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2	Pile 4	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2	Pile 5	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2	Pile 6	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2	Pile 7	Reinforced Concrete Pile	Reinforced Concrete Pile	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	36
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 3	Pile 1	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3	Pile 2	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3	Pile 3	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3	Pile 4	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3	Pile 5	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3	Pile 6	Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3	Pile 7	Reinforced Concrete Pile	Reinforced Concrete Pile	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110147 **Inspection Date:** 08/14/2023

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**	**6259**	**3376**
Drainage System	G, F, P, or C	**P**	**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	**F**	**1**	**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	**9**
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: 110147 **Inspection Date:** 08/14/2023

Item Deck Debris **Grade** F **Maint Code** 3376 **Qty.** 6259

Details along the curblines, debris accumulation (up to 15 inches high x 3 inches wide) with vegetation, obstructing deck drainage

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Item Drainage System **Grade** P **Maint Code** 3332 **Qty.** 0

Details see deck debris notes

Item Slope Protection **Grade** F **Maint Code** 3352 **Qty.** 300

Details end bent 1 slope protection, below all bays, settlement (up to 2 inches) with longitudinal crack (1/4 inch x 8 feet)
end bent 2 slope protection, below bays 3 and 4, adjacent to end bent, settlement (up to 1.5 inch deep) with transverse crack (1/4 inch x 8 feet)

Item Wingwalls **Grade** F **Maint Code** 3350 **Qty.** 1

Details southeast wingwall, at end, spall (9 inch x 6 inch x 2 inch deep)

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

Details (PAR) northwest guardrail attachment, improper lap
(PAR) northeast guardrail, near termination, area of impact damage (6 feet long); multiple decayed posts (up to 75 percent section loss) and twisted spacer blocks
(PAR) northeast guardrail termination, impact damage (1 foot)
south and north approach asphalt, broken asphalt with cracks (up to 1 inch wide) and spalls (up to 8 inch diameter x 1.5 inch deep); settled (up to 1 inch) in relation to bridge
(PAR) southwest guardrail termination, impact damage (1 foot)
at end bent 1, homeless belongings

(PAR) northwest guardrail attachment, improper lap

(PAR) northeast guardrail, near termination, area of impact damage (6 feet long); multiple decayed posts (up to 75 percent section loss) and twisted spacer blocks

(PAR) northeast guardrail, near termination, area of impact damage (6 feet long); multiple decayed posts (up to 75 percent section loss) and twisted spacer blocks

(PAR) northeast guardrail termination, impact damage (1 foot)

south and north approach asphalt, broken asphalt with cracks (up to 1 inch wide) and spalls (up to 8 inch diameter x 1.5 inch deep); settled (up to 1 inch) in relation to bridge

Span 4 Wearing Surface: SPAN 4 WEARING SURFACE HAS SCATTERED TRANSVERSE AND LONGITUDINAL CRACKS [up to 5 feet x UP TO 1/4 INCH]

Span 4 Wearing Surface: over end bent 2, transverse crack (up to 1 inch wide x full width of roadway) with edge spalls (up to 3 inch wide x 1.5 inch deep) and vegetation

Span 4 Deck: top of deck, at end bent 2, at areas of missing wearing surface, edge spalls (up to 1.5 feet x 2 inch x 1 inch deep)

Span 4 Right Bridge Rail: RIGHT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL [up to 18 inch x 2 inch x 1 inch deep] AND DELAMINATED WITH REBAR EXEPOSED [no section loss]

Span 4 Right Bridge Rail: RIGHT RAIL HAS SCATTERED AREAS THAT ARE CRACK/SPALL [up to 18 inch x 2 inch x 1 inch deep] AND DELAMINATED WITH REBAR EXEPOSED [no section loss]

Span 4 Left Bridge Rail: top of rail, at end bent 2, shallow rebar

Span 4 Expansion Joint 3: along the length of the joint, areas of deteriorated seal

Span 3 Wearing Surface: (PAR) throughout wearing surface, areas of delaminations (up to 3 feet x 2 feet) with cracks (up to 1/4 inch); northbound lane, spalls (up to 27 inch x 2 feet x full depth)

Span 3 Wearing Surface: (PAR) throughout wearing surface, areas of delaminations (up to 3 feet x 2 feet) with cracks (up to 1/4 inch); northbound lane, spalls (up to 27 inch x 2 feet x full depth)

Span 3 Deck: (PAR) top of deck, in northbound lane, at areas of missing asphalt, spalls/delaminations (up to 27 inch x 2 feet x 1.5 inch deep), some with exposed rusted rebar

Span 2 Wearing Surface: (PAR) throughout wearing surface, areas of delaminations (up to 18 inch diameter) with cracks (up to 1/4 inch); both travel lanes, spalls/failed patches (up to 4.5 feet x 4 feet x full depth)

Span 2 Deck: (PAR) throughout top of deck, at areas of missing asphalt, spalls/delaminations (up to 28 inch x 1 foot x 1.5 inch deep), some with exposed rusted rebar

Span 2 Wearing Surface: WEARING SURFACE HAS SCATTERED MAP/TRANSVERSE AND LONGITUDINAL CRACKS [up to 12 feet x UP TO 1/8 INCH]

Span 2 Left Bridge Rail: along the length of the rail, spalls (up to 14 inch x 4 inch x 1 inch deep), some with exposed rusted rebar

Span 2 Right Bridge Rail: sidewalk near bent 1, longitudinal/map cracks (up to 1/32 inch)

Span 1 Wearing Surface: (PAR) throughout wearing surface, areas of delaminations (up to 3.5 foot diameter) with cracks (up to 1/4 inch); both travel lanes, spalls/failed patches (up to 7 feet x 4 feet x full depth)

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

Span 1 Right Bridge Rail: at corner of sidewalk adjacent to end bent 1, spall [18 inch x 10 inch x 4 inch deep] no exposed rusted reinforcing

(PAR) southwest guardrail termination, impact damage (1 foot)

along the curblines, debris accumulation (up to 15 inches high x 3 inches wide) with vegetation, obstructing deck drainage

southeast wingwall, at end, spall (9 inch x 6 inch x 2 inch deep)

at end bent 1, homeless belongings

End Bent 1 Cap 1: (PAR) in bays 1 and 4, delaminations (up to 6 feet x 10 inch) with cracks (up to 1/4 inch wide) and rust stains

end bent 1 slope protection, below all bays, settlement (up to 2 inches) with longitudinal crack (1/4 inch x 8 feet)

Span 1 Beam 5 - Near Bearing 5: painted over section loss (up to 1/4 inch deep) with corrosion reinitiated

End Bent 1 Cap 1: (PAR) in bays 1 and 4, delaminations (up to 6 feet x 10 inch) with cracks (up to 1/4 inch wide) and rust stains

End Bent 1 Abutment: HAIRLINE MAP CRACKING AT RANDOM THROUGHOUT.

Span 1 Deck: (PAR) BOTTOM OF DECK UP TO 1/32 INCH MAP CRACKING AT RANDOM THROUGHOUT SOME WITH EFFLORESCENCE AND RUST STAINS

Span 1 Deck: (PAR) BOTTOM OF DECK UP TO 1/32 INCH MAP CRACKING AT RANDOM THROUGHOUT SOME WITH EFFLORESCENCE AND RUST STAINS

Span 1 Deck: (PAR) underside of bays 1 and 4, and both overhangs at bent 1, spalls/delaminations (up to 2.5 feet x 15 inch x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss

Span 1 Deck: (PAR) underside of bays 1 and 4, and both overhangs at bent 1, spalls/delaminations (up to 2.5 feet x 15 inch x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss

Span 1 Deck: (PAR) underside of bays 1 and 4, and both overhangs at bent 1, spalls/delaminations (up to 2.5 feet x 15 inch x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss

Span 1 Deck: at bent 1, bay 3 end diaphragm, spall/delamination (2.5 feet x 8 inch x 2 inches deep) with exposed rusted rebar

Span 1 Beam 1: at bent 1, painted over section loss: web adjacent to diaphragm (1/2 inch average remaining x 6 inch x 3 inch), lower web (1/2 inch average remaining x 13 inch x 4 inch) with corrosion reinitiated; bottom flange, corrosion with section loss (0.85 inch average remaining x 8 inches)

Span 2 Beam 1: at bent 1, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 4 inch x 5 inch); bottom flange, painted over pitting (up to 1/8 inch deep x 1.5 feet) with corrosion reinitiated

Span 1 Beam 2: at bent 1, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 9 inch x 1 inch) with adjacent pitting (up to 1/8 inch deep) with corrosion reinitiated

Span 1 Beam 2 - Far Bearing 2: SPAN 1 FAR BEARING HAS RUST SCALE/PACK RUST

Bent 1 Cap 1: (PAR) south and north faces, below all bays, delaminations (up to 5.5 feet x 6 inch) with cracks (up to 1/8 inch) and rust stains

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

Span 1 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, panted over section loss (3/8 inch average remaining x 9 inch x 4 inch) with corrosion reinitiated

Bent 1 Cap 1: (PAR) south and north faces, below all bays, delaminations (up to 5.5 feet x 6 inch) with cracks (up to 1/8 inch) and rust stains

Span 1 Beam 5: at bent 1, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 10 inch x 2 inch) with corrosion reinitiated

Span 1 Beam 5 - Far Bearing 5: painted over section loss (up to 3/16 inch deep) with corrosion reinitiated; pack rust

Bent 1 Cap 1: (PAR) south and north faces, below all bays, delaminations (up to 5.5 feet x 6 inch) with cracks (up to 1/8 inch) and rust stains

Bent 1 Pile 1: northwest corner, adjacent to cap, delamination (2.5 feet x 6 inch) with cracks (up to 1/32 inch)

Bent 1 Pile 1: northeast corner, near mid-height, (2) spalls (up to 10 inch x 4 inch x 1 inch deep)

Bent 1 Pile 2: west, east and south faces, near cap, spalls/delaminations (up to 5.5 feet x 8 inch x 1 inch deep) with cracks (up to 3/16 inch)

Bent 1 Pile 2: west, east and south faces, near cap, spalls/delaminations (up to 5.5 feet x 8 inch x 1 inch deep) with cracks (up to 3/16 inch)

Bent 1 Pile 6: (PAR) west, east and south faces, spalls/delaminations (up to 11 feet x 18 inch x 1 inch deep) with cracks (up to 1/4 inch) and exposed H-pile flanges; flanges have rust scale

Bent 1 Pile 5: (PAR) west, east and south faces, spalls/delaminations (up to full height x 17 inch x 1 inch deep) with cracks (up to 1/8 inch) and exposed H-pile flanges; flanges have rust scale

Bent 1 Pile 5: (PAR) west, east and south faces, spalls/delaminations (up to full height x 17 inch x 1 inch deep) with cracks (up to 1/8 inch) and exposed H-pile flanges; flanges have rust scale

Span 1 Beam 5: along the top flange, surface rust at random

Span 2 Beam 1: (PAR) 2023 heat straightened and repainted with no apparent new damage; previously noted as: ----------2021 new impact damage to bottom flange, 2 feet wide with 1 inch upward deflection of West side of bottom flange, request supplemental damage inspection ----------BEAM 1 SPAN 2 OUT OF PLUMB 16 INCHES ALONG THE BOTTOM FLANGE AT 18 FEET-8 INCH NORTH FACE OF BENT 1. THE left. FLANGE IS BENT UPWARD OVER 30 INCHES OVER POINT OF IMPACT. 1 GOUGE IN THE DAMAGED AREA IS 2 INCHES X 1 INCH DEEP AT 18 FEET-3 INCHES FROM FACE OF CAP , 1 GOUGE IS 1 1/2 INCHES X 3/4 INCH DEEP AT 19 FEET FROM FACE OF CAP. TOP FLANGE IS TWISTED 4 INCHES AT THE POINT OF IMPACT. THE EXTERIOR left. CONCRETE DIAPHRAGM AT BEAM. 1 SPAN 2 HAS 1/8 INCH CRACK FOR FULL WIDTH AND LENGTH WITH SPALLING PRESENT WITH EXPOSED REBAR ALONG THE FACE OF THE GIRDER 2 FEET HIGH X 7 INCHES WIDE UP TO 6 INCHES DEEP. BEAM 1 SPAN 2 HAS SHIFTED EAST 2 INCHES. THE INTERIOR CONCRETE DIAPHRAGM IN BAY 1 AT PIER 1 BETWEEN beams. 1 AND 2 SPALLED WITH EXPOSED REBAR 22 INCHES HIGH X 22 INCHES WIDE X 3 INCHES DEEP. INTERIOR METAL DIAPHRAGM IN BAY 1 AT 25 FEET-9 INCHES FROM NORTH FACE OF PIER 1 IS BENT EASTWARD 21 INCHES HIGH X UP TO 3/4 INCH WIDE AND BENT NORTH 7 INCHES (2016 SUPPLEMENTAL INSPECTION)

Span 2 Beam 1: (PAR) 2023 heat straightened and repainted with no apparent new damage; previously noted as: ----------2021 new impact damage to bottom flange, 2 feet wide with 1 inch upward deflection of West side of bottom flange, request supplemental damage inspection ----------BEAM 1 SPAN 2 OUT OF PLUMB 16 INCHES ALONG THE BOTTOM FLANGE AT 18 FEET-8 INCH NORTH FACE OF BENT 1. THE left. FLANGE IS BENT UPWARD OVER 30 INCHES OVER POINT OF IMPACT. 1 GOUGE IN THE DAMAGED AREA IS 2 INCHES X 1 INCH DEEP AT 18 FEET-3 INCHES FROM FACE OF CAP , 1 GOUGE IS 1 1/2 INCHES X 3/4 INCH DEEP AT 19 FEET FROM FACE OF CAP. TOP FLANGE IS TWISTED 4 INCHES AT THE POINT OF IMPACT. THE EXTERIOR left. CONCRETE DIAPHRAGM AT BEAM. 1 SPAN 2 HAS 1/8 INCH CRACK FOR FULL WIDTH AND LENGTH WITH SPALLING PRESENT WITH EXPOSED REBAR ALONG THE FACE OF THE GIRDER 2 FEET HIGH X 7 INCHES WIDE UP TO 6 INCHES DEEP. BEAM 1 SPAN 2 HAS SHIFTED EAST 2 INCHES. THE INTERIOR CONCRETE DIAPHRAGM IN BAY 1 AT PIER 1 BETWEEN beams. 1 AND 2 SPALLED WITH EXPOSED REBAR 22 INCHES HIGH X 22 INCHES WIDE X 3 INCHES DEEP. INTERIOR METAL DIAPHRAGM IN BAY 1 AT 25 FEET-9 INCHES FROM NORTH FACE OF PIER 1 IS BENT EASTWARD 21 INCHES HIGH X UP TO 3/4 INCH WIDE AND BENT NORTH 7 INCHES (2016 SUPPLEMENTAL INSPECTION)

Span 2 Beam 1: (PAR) 2023 heat straightened and repainted with no apparent new damage, previously noted as: ----------2021 new impact damage to bottom flange, 2 feet wide with 1 inch upward deflection of West side of bottom flange, request supplemental damage inspection ----------BEAM 1 SPAN 2 OUT OF PLUMB 16 INCHES ALONG THE BOTTOM FLANGE AT 18 FEET-8 INCH NORTH FACE OF BENT 1. THE left. FLANGE IS BENT UPWARD OVER 30 INCHES OVER POINT OF IMPACT. 1 GOUGE IN THE DAMAGED AREA IS 2 INCHES X 1 INCH DEEP AT 18 FEET-3 INCHES FROM FACE OF CAP , 1 GOUGE IS 1 1/2 INCHES X 3/4 INCH DEEP AT 19 FEET FROM FACE OF CAP. TOP FLANGE IS TWISTED 4 INCHES AT THE POINT OF IMPACT. THE EXTERIOR left. CONCRETE DIAPHRAGM AT BEAM. 1 SPAN 2 HAS 1/8 INCH CRACK FOR FULL WIDTH AND LENGTH WITH SPALLING PRESENT WITH EXPOSED REBAR ALONG THE FACE OF THE GIRDER 2 FEET HIGH X 7 INCHES WIDE UP TO 6 INCHES DEEP. BEAM 1 SPAN 2 HAS SHIFTED EAST 2 INCHES. THE INTERIOR CONCRETE DIAPHRAGM IN BAY 1 AT PIER 1 BETWEEN beams. 1 AND 2 SPALLED WITH EXPOSED REBAR 22 INCHES HIGH X 22 INCHES WIDE X 3 INCHES DEEP. INTERIOR METAL DIAPHRAGM IN BAY 1 AT 25 FEET-9 INCHES FROM NORTH FACE OF PIER 1 IS BENT EASTWARD 21 INCHES HIGH X UP TO 3/4 INCH WIDE AND BENT NORTH 7 INCHES (2016 SUPPLEMENTAL INSPECTION)

Span 2 Beam 2: (PAR) 2023 repainted with no apparent new damage; previously noted as: ----------BEAM 2 SPAN 2 BENT EASTWARD 10 INCHES AT POINT OF IMPACT. POINT OF IMPACT IS 19 FEET FROM NORTH OF PIER 1. BEAM. 2 HAS A 1 1/4 INCH BEND EAST UP TO 14 FEET WIDE AT POINT OF IMPACT. THE BEAM IS TWISTED 26 FEET STARTING AT PIER 1. THE BEAM HAS PULLED AWAY 1/12 INCH AT TOP. THE METAL INTERMEDIATE. DIAPHRAGM BAY 1 AT THE BEAM 2 CONNECTION IS BENT EAST 1 INCH AT BOTTOM FOR 3 INCHES HIGH. THE METAL INTERMEDIATE. DIAPHRAGM IN BAY 2 AT THE BEAM 2 CONNECTION IS BENT EAST FOR 1 INCH AT BOTTOM FOR 3 INCHES HIGH (2016 SUPPLEMENTAL INSPECTION).

Span 2 Beam 2: (PAR) 2023 repainted with no apparent new damage; previously noted as: ----------BEAM 2 SPAN 2 BENT EASTWARD 10 INCHES AT POINT OF IMPACT. POINT OF IMPACT IS 19 FEET FROM NORTH OF PIER 1. BEAM. 2 HAS A 1 1/4 INCH BEND EAST UP TO 14 FEET WIDE AT POINT OF IMPACT. THE BEAM IS TWISTED 26 FEET STARTING AT PIER 1. THE BEAM HAS PULLED AWAY 1/12 INCH AT TOP. THE METAL INTERMEDIATE. DIAPHRAGM BAY 1 AT THE BEAM 2 CONNECTION IS BENT EAST 1 INCH AT BOTTOM FOR 3 INCHES HIGH. THE METAL INTERMEDIATE. DIAPHRAGM IN BAY 2 AT THE BEAM 2 CONNECTION IS BENT EAST FOR 1 INCH AT BOTTOM FOR 3 INCHES HIGH (2016 SUPPLEMENTAL INSPECTION).

Span 2 Beam 3: (PAR) 2023 repainted with no apparent new damage; previously noted as: ----------BEAM 3 SPAN 2 PULLED AWAY FROM DECK UP TO 1/2 INCH STARTING AT 10 FEET PIER 1 NORTH FACE FOR 17 FEET LONG. POINT OF IMPACT IS 19 FEET-1 INCH FROM NORTH FACE OF PIER 1. THERE ARE TWO GOUGES 5 1/2 INCHES LONG X 1/4 INCH DEEP AT 18 FEET-6 INCHES ALONG THE BOTTOM FLANGE (2016 SUPPLEMENTAL INSPECTION).

Span 2 Beam 3: (PAR) 2023 repainted with no apparent new damage; previously noted as: ----------BEAM 3 SPAN 2 PULLED AWAY FROM DECK UP TO 1/2 INCH STARTING AT 10 FEET PIER 1 NORTH FACE FOR 17 FEET LONG. POINT OF IMPACT IS 19 FEET-1 INCH FROM NORTH FACE OF PIER 1. THERE ARE TWO GOUGES 5 1/2 INCHES LONG X 1/4 INCH DEEP AT 18 FEET-6 INCHES ALONG THE BOTTOM FLANGE (2016 SUPPLEMENTAL INSPECTION).

Span 2 Beam 4: (PAR) 2023 2023 heat straightened and repainted with no apparent new damage; previously noted as: ----------2021 new impact damage to bottom flange, 2 feet wide with 3 inch upward deflection of West and 1 inch downward deflection of East side of bottom flange, request supplemental damage inspection ----------beam 4 span 2-Indentions in flange on beam 4 are 1/2 inch X 1/16 inch +/- at 18 feet-11 inches, one 1 1/2 inches X 1/16 inch +/- at 18 feet-7 inches, one 2 inches X 1/16 inch +/- at 17 feet-9 inches, one 3 inches X 1/16 inch +/- at 15 feet-8 inches, one 1/2 inch X 1/16 inch +/- at 14 feet-8 inch, one 1/2 inch X 1/16 inch +/- at 14 feet-6 inches. one 1/2 inch X 1/16 inch +/- at 14 feet-3 inch, one 1 inch X 1/4 inch +/- at 14 feet-0 inch, one 1 inch X 1/16 inch +/- at 12 feet-6 inches all from face of bent 1. Gouge 1 1/4 inches X 11 inches X 1/16 inch +/- at 16 feet-9 inches from bent 1. beam 4 span 2 pulled away 1/2 inch starting at 6 inch from pier 1 for 21 feet (2016 SUPPLEMENTAL INSPECTION).

Span 2 Beam 4: (PAR) 2023 heat straightened and repainted with no apparent new damage; previously noted as: ---------- ----------2021 new impact damage to bottom flange, 2 feet wide with 3 inch upward deflection of West and 1 inch downward deflection of East side of bottom flange, request supplemental damage inspection ---------- ----------beam 4 span 2-Indentions in flange on beam 4 are 1/2 inch X 1/16 inch +/- at 18 feet-11 inches, one 1 1/2 inches X 1/16 inch +/- at 18 feet-7 inches, one 2 inches X 1/16 inch +/- at 17 feet-9 inches, one 3 inches X 1/16 inch +/- at 15 feet-8 inches, one 1/2 inch X 1/16 inch +/- at 14 feet-8 inch, one 1/2 inch X 1/16 inch +/- at 14 feet-6 inches. one 1/2 inch X 1/16 inch +/- at 14 feet-3 inch, one 1 inch X 1/4 inch +/- at 14 feet-0 inch, one 1 inch X 1/16 inch +/- at 12 feet-6 inches all from face of bent 1. Gouge 1 1/4 inches X 11 inches X 1/16 inch +/- at 16 feet-9 inches from bent 1. beam 4 span 2 pulled away 1/2 inch starting at 6 inch from pier 1 for 21 feet (2016 SUPPLEMENTAL INSPECTION).

Span 2 Beam 5: (PAR) 2023 repainted with no apparent new damage; previously noted as: ----------Point of impact on beam 5 is 18 feet-3 inches from face of bent 1. Beam is bent downward 4 inches for 4 feet-9 inches long at point of impact. at bent eastward 13 inches long. 1 1/2 inches. Gouge 1 inch X 7 inches X 1/4 inch +/-, one 1/4 inch X 12 inches X 1/16 inch +/-, one 1 inch X 8 inches X 1/16 inch +/- all in impact area. Indentions 1 inch X 1/4 inch +/- at 18 feet-6 inches, one 1 inch X 1/16 inch +/- at 18 feet-0 inch, one 3 inches X 1/16 inches +/- at 24 feet-1 inch, one 1 inch X 1/16 inch +/- AT 22 feet-5 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-0 inch, one 1 inch X 1/4 inch +/- at 20 feet-2 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-6 inch, 1 1/2 inches X 1/16 inch +/- at 19 feet-4 inches, one 5 inches X 1/16 inches +/- at 18 feet-8 inches all from bent 1. Gouge in flange 1 inches X 6 inches X 1/4 inch +/- at 19 feet-3 inches, one 1/4 inch X 4 inches X 1/16 inch +/- at 20 feet-8 inches, one 3/4 inch X 3/4 inch X 1/16 inch +/- at 17 feet-4 inch, one 1 inch X 6 inches X 1/16 inch +/- at 17 feet-5 inches, one 1 inches X 7 inches X 1/16 inches +/- at 16 feet-7 inch, one 1 inch X 6 inches X 1/16 inch at 16 feet-0 inch all from bent 1. Indentions in damaged area, 1 inch X 1/16 inch +/- at 15 feet-10 inches, one 1/2 inch X 1/16 inch +/- and 15 feet-9 inches, one 1 inch X 1/16 inch +/- at 16 feet-3 inches, one 4 inches X 1/16 inch +/- at 15 feet-1 inch, one 2 inches X 1/16 inch +/- at 14 feet-10 inch, one 3 inches X 1/16 inches +/- at 14 feet-0 inch. beam has pulled away from deck 5/8 inch starting at pier 1 for 35 feet long. bay 4 INTERMEDIATE. metal diaphragm at the beam 5 connection has two bottom bolts missing at two loose bolts along the left. side and is bent

Span 2 Beam 5: (PAR) 2023 repainted with no apparent new damage; previously noted as: ----------
----------Point of impact on beam 5 is 18 feet-3 inches from face of bent 1. Beam is bent downward 4 inches for 4 feet-9 inches long at point of impact. at bent eastward 13 inches long. 1 1/2 inches. Gouge 1 inch X 7 inches X 1/4 inch +/-, one 1/4 inch X 12 inches X 1/16 inch +/-, one 1 inch X 8 inches X 1/16 inch +/- all in impact area. Indentions 1 inch X 1/4 inch +/- at 18 feet-6 inches, one 1 inch X 1/16 inch +/- at 18 feet-0 inch, one 3 inches X 1/16 inches +/- at 24 feet-1 inch, one 1 inch X 1/16 inch +/- AT 22 feet-5 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 21 feet-0 inch, one 1 inch X 1/4 inch +/- at 20 feet-2 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-11 inches, one 1/2 inch X 1/16 inch +/- at 19 feet-6 inch, 1 1/2 inches X 1/16 inch +/- at 19 feet-4 inches, one 5 inches X 1/16 inches +/- at 18 feet-8 inches all from bent 1. Gouge in flange 1 inches X 6 inches X 1/4 inch +/- at 19 feet-3 inches, one 1/4 inch X 4 inches X 1/16 inch +/- at 20 feet-8 inches, one 3/4 inch X 3/4 inch X 1/16 inch +/- at 17 feet-4 inch, one 1 inch X 6 inches X 1/16 inch +/- at 17 feet-5 inches, one 1 inches X 7 inches X 1/16 inches +/- at 16 feet-7 inch, one 1 inch X 6 inches X 1/16 inch at 16 feet-0 inch all from bent 1. Indentions in damaged area, 1 inch X 1/16 inch +/- at 15 feet-10 inches, one 1/2 inch X 1/16 inch +/- and 15 feet-9 inches, one 1 inch X 1/16 inch +/- at 16 feet-3 inches, one 4 inches X 1/16 inch +/- at 15 feet-1 inch, one 2 inches X 1/16 inch +/- at 14 feet-10 inch, one 3 inches X 1/16 inches +/- at 14 feet-0 inch. beam has pulled away from deck 5/8 inch starting at pier 1 for 35 feet long. bay 4 INTERMEDIATE. metal diaphragm at the beam 5 connection has two bottom bolts missing at two loose bolts along the left. side and is bent

Span 2 Deck: (PAR) underside of bays 1 and 4, and left overhangs at bent 2, spalls/delaminations (up to 2.5 feet x 2 feet x 3 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss

Span 2 Deck: (PAR) underside of bays 1 and 4, and left overhangs at bent 2, spalls/delaminations (up to 2.5 feet x 2 feet x 3 inches deep) with exposed rusted rebar; rebar has approximately 10 percent section loss

Span 2 Deck: (PAR) BOTTOM OF DECK HAIRLINE MAP CRACKING SOME WITH EFFLORESCENCE AND RUST STAINS.

Span 2 Deck: at bent 1, end diaphragm in all bays, spalls/delaminations (up to full bay width x 8 inch wide x 2 inches deep) with exposed rusted rebar with cracks (up to 1/16 inch) with efflorescence

Span 3 Beam 5: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 2 inch) with corrosion reinitiated

Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 9 inch x 1.5 inches); lower web (7/16 inch average remaining x 4 inch x 2 inch) with corrosion reinitiated

Span 4 Beam 4 - Near Bearing 4: SPAN 4 NEAR BEARING HAS PACK RUST.

Bent 3 Cap 1: (PAR) south and north faces, below all bays, spalls/delaminations (up to 7 feet x 2 feet x 1/2 inch deep) with cracks (up to 1/16 inch) and rust stains

Bent 3 Cap 1: (PAR) south and north faces, below all bays, spalls/delaminations (up to 7 feet x 2 feet x 1/2 inch deep) with cracks (up to 1/16 inch) and rust stains

Span 4 Beam 3: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (5/16 inch average remaining x 9 inch x 2 inch), lower web (7/16 inch average remaining x 6 inch x 1 inch) with corrosion reinitiated

Span 3 Beam 3: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 10 inch x 2 inch) with corrosion reinitiated

Span 4 Beam 2: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 3 inch x 1 inch) with corrosion reinitiated

Span 4 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 8 inch x 4 inch)

Span 3 Beam 1: (PAR) at bent 3, web adjacent to diaphragm, painted over section loss (7/16 inch average remaining x 8 inch x 2 inch)

Bent 3 Pile 3: (PAR) southeast corner, near cap, spall/delamination (7 feet x 6 inch x 1.5 inch deep) with cracks (up to 1/16 inch) with east bottom flange exposed; flange has rust scale

Bent 3 Pile 4: southwest and southeast corners, at cap, delaminations (up to 4.5 feet x 6 inch) with cracks (up to 1/16 inch)

Bent 3 Pile 5: (PAR) southwest and southeast corners, at cap, delaminations (up to 3.5 feet x 1 foot) with cracks (up to 1/8 inch) and rust stains

Span 4 Deck: (PAR) UP TO 1/32 INCH MAP CRACKING BOTTOM OF DECK some with efflorescence and rust stain

Span 4 Deck: (PAR) UP TO 1/32 INCH MAP CRACKING BOTTOM OF DECK some with efflorescence and rust stain

Span 4 Beam 5: along the top flange, surface rust at random

Span 3 Deck: (PAR) underside of bays 1 and 4, spalls/delaminations (up to 2 foot diameter x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 5 percent section loss

Span 3 Deck: (PAR) underside of bays 1 and 4, spalls/delaminations (up to 2 foot diameter x 2.5 inches deep) with exposed rusted rebar; rebar has approximately 5 percent section loss

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Span 3 Deck: (PAR) BOTTOM OF DECK UP TO 1/32 INCH MAP CRACKING AT RANDOM THROUGHOUT SOME WITH EFFLORESCENCE AND RUST STAINS

Span 3 Deck: at bent 2, end diaphragms in all bays and overhangs, spalls/delaminations (up to full bay width x 8 inch x 2 inches) with exposed rusted rebar and cracks (up to 1/16 inch)

Span 3 Deck: at bent 2, end diaphragms in all bays and overhangs, spalls/delaminations (up to full bay width x 8 inch x 2 inches) with exposed rusted rebar and cracks (up to 1/16 inch)

End Bent 2 Abutment: up to 8 INCH x UP TO 1/32 INCH VERTICAL AND DIAGONAL CRACKS AT BEAM ENDS

End Bent 2 Cap 1: up to full height x UP TO 1/64 INCH VERTICAL CRACKS, AT RANDOM, some wraparound

end bent 2 slope protection, below bays 3 and 4, adjacent to end bent, settlement (up to 1.5 inch deep) with transverse crack (1/4 inch x 8 feet)

Bent 2 Cap 1: (PAR) south and north faces, spalls/delaminations (up to 6 feet x 8 inch x 1 inch deep) with cracks (up to 1/8 inch), some with rust stains

Bent 2 Cap 1: (PAR) south and north faces, spalls/delaminations (up to 6 feet x 8 inch x 1 inch deep) with cracks (up to 1/8 inch), some with rust stains

Span 3 Beam 5: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (7/16 inch average remaining x 9 inch x up to 15 inch); lower web (1/2 inch average remaining x 1 foot x 2 inch)

Span 3 Beam 5 - Near Bearing 5: painted over section loss (up to 3/16 inch deep) with corrosion reinitiated; pack rust

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

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

Span 2 Beam 3: (PAR) at bent 2, web adjacent to diaphragm, painted over section loss (3/8 inch average remaining x 9 inch x 2 inch), with adjacent pitting (up to 1/8 inch deep), 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 up to 10 inch), with adjacent pitting (up to 1/8 inch deep), with corrosion reinitiated

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

Span 3 Beam 1: at bent 2, web adjacent to diaphragm, painted over section loss (1/2 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated

Bent 2 Pile 2: (PAR) west and east faces, near cap, spalls/delaminations (up to 5 feet x 6 inch x 2 inches deep) with cracks (up to 1/16 inch); H-pile flange exposed with rust scale

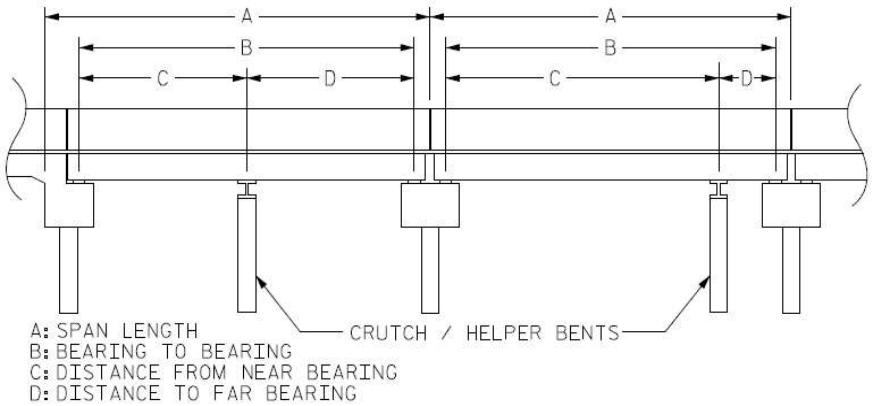
Bent 2 Pile 5: (PAR) west and east faces, near cap, spalls/delaminations (6 feet x 6 inch x 2 inches deep) with cracks (up to 1/8 inch); H-pile flange exposed with rust scale

Bent 2 Pile 6: (PAR) west and east faces, spalls/delaminations (up to full height x 8 inch x 3 inches deep) with cracks (up to 1/4 inch) with efflorescence; H-pile flange exposed with rust scale

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110147**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	37.000	35.209			
2	52.500	51.625			
3	52.500	51.625			
4	42.080	40.250			

Structure Number: 110147 Span: 2 Route Name: I40 EBL

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

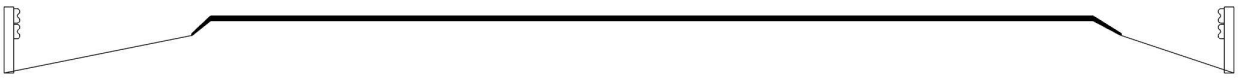
Route Number: 11000400	**Route Name:** I40 EBL			**Reference Feature:** H
Minimum Vertical Clearance 14.417 feet	**Maximum Minimum Vertical Clearance** 15.083 feet			
Total Horizontal Clearance 43.110 feet	**Lateral Clearances: Left:** 13.970 feet **Right** 11.460 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 110.720	**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: 110147 Span: 3 Route Name: I 40 WBL

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

Route Number: 11000400	**Route Name:** I 40 WBL			**Reference Feature:** H
Minimum Vertical Clearance 16.070 feet	**Maximum Minimum Vertical Clearance** 16.900 feet			
Total Horizontal Clearance 43.540 feet	**Lateral Clearances: Left:** 13.020 feet	**Right** 12.660 feet		
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 110.720	**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	23.5ft Wide	2 Paved Lanes	Looking South
Left Shoulder	5.5ft Wide	0.5ft Paved	5ft Unpaved
Right Shoulder	3.75ft Wide	0.75ft Paved	3ft Unpaved
Left Guardrail	5.5ft from road		
Right Guardrail	3.75ft from road		

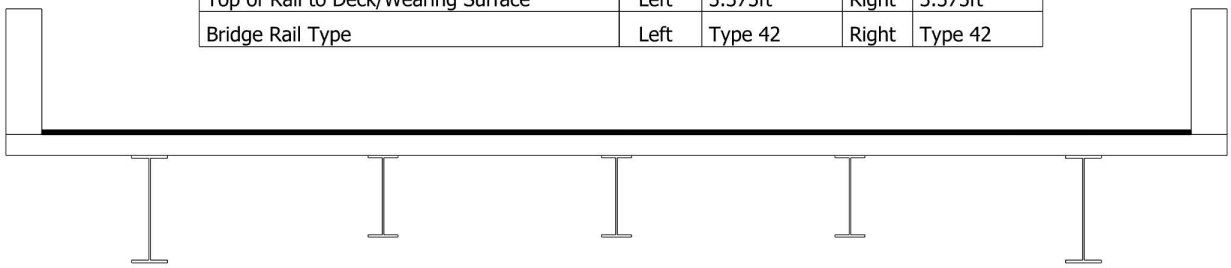
Measurements taken 25 feet from end bent 2

Title	Description
APPROACH ROADWAY	LOOKING SOUTH

Structure No:	Drawn By:	Date:	Filename:
110147	ITChapman	8/14/2023	S000918000445.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	34.00ft	Between Rails			32.333ft
Clear Roadway	26ft	Wearing Surface			1.5in
Median Width		Median Height			
Curb Height		Left	8.5in	Right	8.5in
Sidewalk Width		Left	3.333ft	Right	3.333ft
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	12in	Right	12in
Top of Rail to Deck/Wearing Surface		Left	3.375ft	Right	3.375ft
Bridge Rail Type		Left	Type 42	Right	Type 42



Measurements for Span #	1	Similar all spans	
Deck Thickness	7in	Left Overhang	4ft
Top of Rail to Bottom of Beam (Avg)	7.073ft	Right Overhang	4ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12in	35.9in	4ft	Left Edge of Deck
2	Plate Girder	10in	26.9in	6.5ft	Beam 1
3	Plate Girder	10in	26.9in	6.5ft	Beam 2
4	Plate Girder	10in	26.9in	6.5ft	Beam 3
5	Plate Girder	12in	35.9in	6.5ft	Beam 4

BEAMS:

Spans 1 and 4 exterior, Span 2 and 3 (W36x150): 34" between flanges, 12" x 15/16" flange, 7/8" web

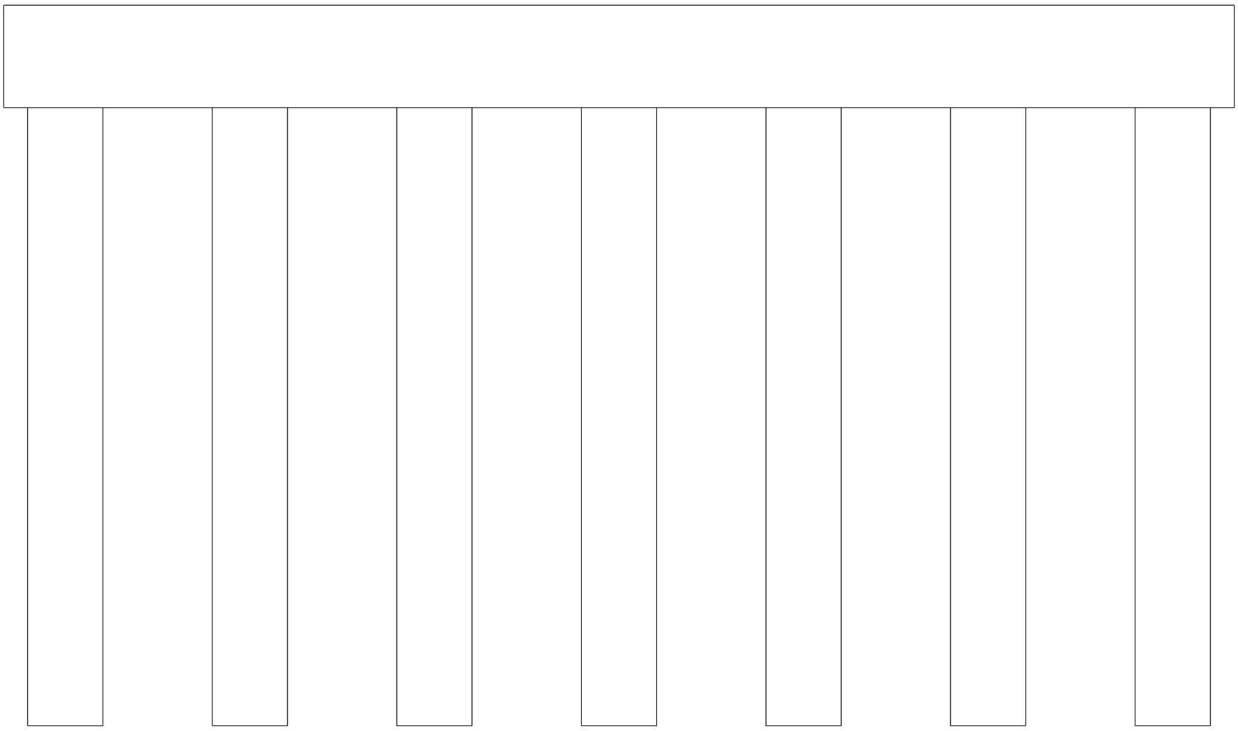
Span 1 interior (W27x94): 25-3/4" between flanges, 10" x 3/4" flange, 1/2" web

Span 4 interior (W30x108): 28-1/2" between flanges, 10-1/2" x 3/4" flange, 1/2" web

Title	Description
TYPICAL SECTION	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110147	ITChapman	8/14/2023	S000918000446.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	30ft	30in	30in	1.33ft	1.33ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Pile	1.5ft	Left End of Bent	22in	22in	
2	Pile 2	Reinforced Concrete Pile	4.5ft	Pile 1	22in	22in	
3	Pile 3	Reinforced Concrete Pile	4.5ft	Pile 2	22in	22in	
4	Pile 4	Reinforced Concrete Pile	4.5ft	Pile 3	22in	22in	
5	Pile 5	Reinforced Concrete Pile	4.5ft	Pile 4	22in	22in	
6	Pile 6	Reinforced Concrete Pile	4.5ft	Pile 5	22in	22in	
7	Pile 7	Reinforced Concrete Pile	4.5ft	Pile 6	22in	22in	

Title	Description
BENTS 1-3	LOOKING NORTH

Structure No: 110147	Drawn By: ITChapman	Date: 8/14/2023	Filename: S000918000447.wes

southeast guardrail termination

southeast guardrail

south approach looking north

southwest guardrail termination

southwest guardrail

end bent 1 asphalt

southwest guardrail attachment

left bridge rail

right bridge rail

asphalt wearing surface

southeast guardrail transition

southeast guardrail attachment

bridge ID

bent 1 joint

bent 2 joint

roadway looking east

roadway looking west

south approach looking south

north approach looking north

bent 3 joint

end bent 2 asphalt

northwest guardrail attachment

northwest guardrail transition

northeast guardrail attachment

northeast guardrail

northwest guardrail

northwest guardrail termination

northeast guardrail termination

north approach looking south

bridge plaque

southeast wingwall

end bent 1

end bearing assembly

bent 1

southwest wingwall

end bent 1 slope protection (end bent 2 slope protection similar)

ladder used

interior bearing assembly at bent 1 exterior beams (bent 3 similar)

exterior beams over bent 1 (bent 3 similar)

interior bearing assembly at bent 1 (bent 3 similar)

interior beams over bent 1 (bent 3 similar)

bent 2

superstructure underside, span 2 (span 3 similar)

superstructure underside, span 1 (span 4 similar)

intermediate diaphragm

end diaphragm

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

west profile looking east

northwest wingwall

end bent 2

northeast wingwall

bent 3

interior bearing assembly at bent 2

beams over bent 2

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

east profile looking west

I-40 eastbound, approximately 0.1 miles west of bridge, vertical clearance signs (14 feet-5 inches)