NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request; sketches updated; signs attached to beam; lateral clearance revised; new beam repairs

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110106 **SAP STRUCTURE NO:** 0120106 **FHWA STRUCTURE NO:** 000000000230106

DIVISION: 13 **COUNTY:** BURKE **INSPECTION DATE:** 08/09/2023 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1168 **MILE POST:** 98.98

LOCATION: .1 MI.N.JCT.SR2112

FEATURE INTERSECTED: I40

LATITUDE: 35° 42' 54.97" **LONGITUDE:** 81° 45' 54.2"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT.BTS:RCP&BEAM

SPANS: 5 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

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

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

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

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

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
Juan Rodriguez		Hector Bonilla

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

11/01/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **110106**
(8) STRUCTURE NUMBER (FEDERAL) **0230106**
(5) INVENTORY ROUTE (ON/UNDER) ON **131011680**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **13**
(3) COUNTY CODE (FEDERAL) **23** (4) PLACE CODE **44400**
(6) FEATURE INTERSECTED **I40**
(7) FACILITY CARRIED **SR1168**
(9) LOCATION **.1 MI.N.JCT.SR2112**
(11) MILEPOINT **99.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **35° 42' 54.97"** (17) LONGITUDE **81° 45' 54.2"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Concrete**
TYPE **Tee Beam** CODE **104**
(44) STRUCTURE TYPE APPROACH
TYPE CODE
(45) NUMBER OF SPANS IN MAIN UNIT **5**
(46) NUMBER OF SPANS IN APPROACH **0**
(107) DECK STRUCTURE TYPE CODE **1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM
(A) TYPE OF WEARING SURFACE CODE **6**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1956**
(106) YEAR RECONSTRUCTED **0**
(42) TYPE OF SERVICE ON - **Highway**
OFF - **Highway** CODE **11**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **4**
(29) AVERAGE DAILY TRAFFIC **2300**
(30) YEAR OF ADT **2021** (109) TRUCK ADT PCT **7**
(19) BYPASS OR DETOUR LENGTH **4.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **54.0**
(49) STRUCTURE LENGTH **228.0**
(50) CURB OR SIDEWALK: LEFT **1.7** RIGHT **1.7**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **28.0**
(52) DECK WIDTH OUT TO OUT **33.5**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **24.0**
(33) BRIDGE MEDIAN **No median** CODE **0**
(34) SKEW **22** (35) STRUCTURE FLARED **0**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR **28.0**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **H** **14.3**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **8.6**
(56) MIN LAT UNDERCLEARANCE LT: **13.4**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **N**
(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 **73.73**
STATUS =

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Urban Collector** **17**
(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 **6**
(59) SUPERSTRUCTURE **5**
(60) SUBSTRUCTURE **6**
(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-32** **58**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-19** **34**
(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 **4**
(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 **4,600** 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 **110106** County **BURKE** Run Date **11/01/2023**

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
3	I 40 E	11000400	17.3	99.0	1	10040	11	2	16000	2015	40.1	H	16.3	10.0	13.0	4		1	☐	☐
3	I 40 E	11000400	100.0	99.0	1	10040	11	2	16000	2015	40.1	H	100.0	10.0	13.0	4		1	☐	☐
4	I40W	11000400	100.0	99.0	1		11	2	16000	2015	41.1	H	100.0	8.6	13.4	3		1	☐	☐
4	I 40 W	11000400	100.0	99.0	1		11	2	16000	2015	41.1	H	100.0	8.6	13.4	3		1	☐	☐
4	I40W	11000400	14.9	99.0	1		11	2	16000	2015	41.1	H	14.3	10.0	13.4	3		1	☐	☐

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

Superstructure Build Details

Span Number 1 **Span Length** 34.000 **Skew** 112.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	68	Feet		
1	Asphalt Wearing Surface	Wearing Surface	952	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	136	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1071	Square Feet		

Span Number 2 **Span Length** 34.000 **Skew** 112.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	952	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	68	Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4
1	Standard Joint	Pourable Joint Seal	31	Feet		
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	136	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1071	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4

Span Number 3 **Span Length** 55.000 **Skew** 112.000

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

Superstructure Build Details

1	Asphalt Wearing Surface	Wearing Surface	1540	Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1733	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	8
1	Standard Joint	Pourable Joint Seal	31	Feet		

Span Number 4 **Span Length** 55.000 **Skew** 112.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1733	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	6
4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	220	Feet		
1	Standard Joint	Pourable Joint Seal	31	Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	110	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1540	Square Feet		
3	Other warning sign	Other Warning Signs	3	Each		
4	Fixed Bearing	Fixed Bearing	4	Each	Legacy Red Lead Primer Systems with Various Topcoats	4

Span Number 5 **Span Length** 50.000 **Skew** 112.000

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

Structure Element Scoring

Structure Number: **110106**

Inspection Date **8/9/2023**

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

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110106** Inspection Date: **08/09/2023**

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

Element Structure Maintenance Quantities

Structure Number: **110106** Inspection Date **08/09/2023**

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

Priority Actions Request

Structure Number 110106

Span1

3306 **Beam 1** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Span 1 Beam 1: (PAR) at bent 1, east face, bottom of beam, spall (full width x 5 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)
2	Exposed Rebar	3	Span 1 Beam 1: (PAR) at bent 1, east face, failed patch (19 inch x full height x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)

2816 **Wearing Surface** Asphalt Wearing Surface

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

Span2

3306 **Beam 4** Reinforced Concrete Girder

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

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	31	Span 2 Wearing Surface: (PAR) at bent 2, partially patched potholes (up to 16 inch x 6 inch x full depth)

Span3

3306 **Beam 1** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	5	Span 3 Beam 1: (PAR) east face lower web at 5 foot from bent 2, delamination, 5 foot x up to 24 inch high, over right shoulder of I-40 eastbound lane

3306 **Beam 4** Reinforced Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	3	Span 3 Beam 4: (PAR) west face web and underside at bent 2, spall/delamination [30 inch x up to full height x up to 2 inch deep] with exposed rusted primary

Priority Actions Request

Structure Number 110106

reinforcing [approximately 25 percent loss]

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	2	Span 3 Wearing Surface: (PAR) at bent 3, southbound lane, pothole (2 foot x 9 inch x full depth)

Span4

2816 **Wearing Surface** Asphalt Wearing Surface

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area/Pothole	5	Span 4 Wearing Surface: (PAR) at bent 4, (3) potholes (up to 3 foot x 8 inch x full depth)

Bent 1

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Bent 1 Cap 1: (PAR) 2 FOOT X UP TO 16 INCH X 3 INCH DEEP SPALL WITH EXPOSED RUSTED PRIMARY REINFORCING [SECTION LOSS UP TO 1/8 INCH] AT SOUTHWEST CORNER
2	Exposed Rebar	1	Bent 1 Cap 1: (PAR) 6 INCH DIAMETER X 1 INCH SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT SECTION LOSS SOUTH FACE UNDER BEAM 1

Bent 4

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	1	Bent 4 Cap 1: (PAR) 16 INCH X UP TO 1/32 INCH VERTICAL CRACK WITH RUST STAIN NORTH FACE UNDER BEAM 1

Approach Guardrail and Barriers

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

Priority Level	Defect Type	Quantity	Defect Description

Priority Actions Request

Structure Number **110106**

2	1	(PAR) southwest guardrail termination, impact damage

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

Element Condition and Maintenance Data

Structure Number: **110106** Inspection Date: **08/09/2023**

Span 1 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	34	15	16	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Delamination/Spall	(PAR) at bent 1, east face, bottom of beam, spall (full width x 5 inch x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3		1	Feet
☑ 110	Delamination/Spall	West face at bent 1, spall/delamination [12 inch x 3 inch x 1 inch deep] with exposed rusted rebar	3		1	Feet
☑ 110	Exposed Rebar	(PAR) at bent 1, east face, failed patch (19 inch x full height x 1.5 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3	3	3	Feet
☑ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	16		Feet

General Comments

Span 1 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	34	27	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	6		Feet
☑ 110	Delamination/Spall	east face at bent 1, multiple spalls/delaminations (up to 10 inch x 11 inch x 1/2 inch deep) with exposed rusted rebar	2	1	1	Feet

General Comments

Span 1 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	34	13	20	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 110	Cracking (RC and Other)	at bent 1, west face, delamination (8 inch x 6 inch) with cracks (up to 1/16 inch)	3	1	1	Feet
☑ 110	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	20		Feet

General Comments

Structure Number: **110106** Inspection Date: **08/09/2023**

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	1	0	0	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	(not found 2023) active corrosion with section loss [up to 1/16 inch] on plates	1			Each
☑	**515**	Effectiveness (Steel Protective Coatings)	(not found 2023) paint failure, no protection of underlying metal	1			Square Feet
☐	**515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	DEFECT NOT FOUND 08/08/2019	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	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 Near Bearing 2

Fixed Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	freckled rust	2	1		Each
☑	**515**	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet
☐	**515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	DEFECT NOT FOUND 08/08/2019	1			Square Feet

General Comments

Span 1 — Far Bearing 2

Movable Bearing

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

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

General Comments

Span 1 — Near Bearing 3

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	active spot rust	2	1		Each
☑ 515	Effectiveness (Steel Protective Coatings)	paint failure, corrosion initiated	2	1	1	Square Feet

General Comments

Span 1 — Far Bearing 3

Movable Bearing

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

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

General Comments

Span 1 — Near Bearing 4

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 313	Corrosion	corrosion with section loss (up to 1/8 inch deep)	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
☐ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	DEFECT NOT FOUND 08/08/2019	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	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	952	863	0	89	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**510**	Crack (Wearing Surface)	along length of asphalt over end bent 1, transverse cracks [up to 1/4 inch x full roadway width] with edge spalling up to [1/2 inch deep] and associated sound patch [4 foot x 8 inch]	3	31	31	Square Feet
☑	**510**	Crack (Wearing Surface)	MULTIPLE AREAS OF BROKEN ASPHALT/MAP CRACKING UP TO 1/16 INCH X 2 FOOT X 10 FOOT SOUTHBOUND LANE 7 FOOT FROM WEST CURB	3	40	40	Square Feet
☑	**510**	Crack (Wearing Surface)	near end bent 1, northbound lane, patched area (12 inch x 14 inch) with adjacent map cracks (up to 1/16 inch x 2 foot x 2 foot)	3	4	4	Square Feet
☑	**510**	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 1, southbound lane, partially patched pothole (13 foot x 6 inch x full depth)	3	13	13	Square Feet
☑	**510**	Patched Area/Pothole (Wearing Surface)	(PAR) at centerline of roadway, pothole (14 inch x 4 inch x 3 inch deep)	3	1	1	Square Feet

General Comments

Span 2 — Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	34	11	20	3	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**110**	Cracking (RC and Other)	east face at bent 1, delamination (32 inch x 18 inch) with cracks (up to 1/32 inch)	3	3	3	Feet

☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	20		Feet

General Comments

Span 2 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	34	21	13	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Delamination/Spall	at bent 2 bay 2 end diaphragm, spall [22 inch x 3 inch x 3 inch] with exposed rusted reinforcing [no loss noted] with cracks [up to 1/16 inch]	3		1	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	12		Feet
☑ **110**	Delamination/Spall	at bent 2, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar	2	1	1	Feet

General Comments

Span 2 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	34	18	16	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	15		Feet
☑ **110**	Delamination/Spall	at bent 2, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar	2	1	1	Feet

General Comments

Span 2 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	34	8	24	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Exposed Rebar	(PAR) at bent 2, west face and underside, multiple spalls/delaminations (up to 21 inch x 5 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3	2	1	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	22		Feet
☑ **110**	Patched Area	at bent 1, west face, (2) delaminations/spalls (up to 3 inch x 2 foot x 1/2 inch deep) with exposed rusted rebar and adjacent cracks (up to 1/32 inch)	2	2		Feet

General Comments

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	31	0	0	0	31	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**301**	Seal Damage	along the length of the joint, joint material deteriorated/torn/missing at random	4	31	31	Feet
☑	**301**	Debris Impaction	EXPANSION JOINT OVER BENT 1 HAS SCATTERED AREAS OF DEBRIS IMPACTION WITH VEGETATION GROWTH	3		25	Feet
☐	**301**	Debris Impaction	MOVED TO ASPHALT WEARING SURFACE	1			Feet

General Comments

Span 2 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	34	33	1	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**331**	Delamination/Spall	at 5th rail post from bent 1, top corner, spall [4 inch x 3 inch x up to 3/4 inch] no exposed reinforcing	2	1	1	Feet

General Comments

Span 2 — Near Bearing 1

Movable Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**311**	Corrosion	corrosion with section loss (up to 1/8 inch)	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 1

Fixed Bearing

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

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

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

General Comments

Span 2 — Near Bearing 2

Movable Bearing

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

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

General Comments

Span 2 — Far Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 3

Movable Bearing

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

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

General Comments

Span 2 — Far Bearing 3

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 2 — Far Bearing 4

Fixed Bearing

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

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

General Comments

Span 2 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	952	881	15	56	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**510**	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 1, southbound lane, partially patched pothole (13 foot x 6 inch x full depth)	3	13	13	Square Feet

☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 2, partially patched potholes (up to 16 inch x 6 inch x full depth)	3	31	31	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	Southbound lane, shallow pothole/patched area [12 foot long x up to 10 inch x up to 1/2 inch deep]	3	12	12	Square Feet
☑ **510**	Crack (Wearing Surface)	throughout topside of deck, multiple transverse and longitudinal cracks [up to 16 inch x up to 1/4 inch]	2	15	15	Square Feet

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	31	0	0	0	31	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Damage	along the length of the joint, joint material deteriorated/torn/missing at random	4	31	31	Feet
☑ **301**	Debris Impaction	EXPANSION JOINT OVER BENT 2 HAS SCATTERED AREAS OF DEBRIS IMPACTION WITH VEGETATION GROWTH	3		31	Feet

General Comments

Span 3 — Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	55	23	25	7	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Delamination/Spall	(PAR) east face lower web at 5 foot from bent 2, delamination, 5 foot x up to 24 inch high, over right shoulder of I-40 eastbound lane	3	5	5	Feet
☑ **110**	Delamination/Spall	at bent 3, east face, spall/delamination (8 inch x 12 inch x 1/2 inch deep); underside, spall (4 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar	3	1	1	Feet
☑ **110**	Delamination/Spall	east face web at bent 2, spall [12 inch x 2 inch x 1/2 inch deep] with exposed rusted reinforcing	3	1	1	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	24		Feet
☑ **110**	Delamination/Spall	east face web at bent 2, delamination [12 inch x 10 inch]	2	1	1	Feet

General Comments

Span 3 — Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	55	34	20	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	at bottom of beam west face at bent 3, delamination (5 inch x 4 inch) with cracks (up to 1/16 inch)	3	1	1	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	18		Feet

☑ **110**	Delamination/Spall	east face at bent 3, delamination/spall [3 inch x 1 foot x up to 3/4 inch deep] with exposed rusted reinforcing no section loss	2	1	1	Feet
☑ **110**	Patched Area	2023 previously repaired, patch (7 inch x 2 foot), previously noted as: West face at bent 3, delamination/spall [5 inch x 3 foot high x up to 3/4 inch deep] with exposed rusted reinforcing no section loss	2	1		Feet

General Comments

Span 3 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	55	37	17	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Delamination/Spall	west face at bent 2, spall [14 inch x up to 8 inch x 1 inch deep] with exposed rusted reinforcing [no loss noted]; underside at bent 2 bearing, spall [4 inch x 4 inch x 1/2 inch deep] with exposed rusted reinforcing [no loss noted]	3	1	1	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	16	16	Feet
☑ **110**	Delamination/Spall	at bent 3, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar	2	1	1	Feet

General Comments

Span 3 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	55	23	28	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Delamination/Spall	at bent 3, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar	3	1	1	Feet
☑ **110**	Exposed Rebar	(PAR) west face web and underside at bent 2, spall/delamination [30 inch x up to full height x up to 2 inch deep] with exposed rusted primary reinforcing [approximately 25 percent loss]	3	3	3	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	28		Feet

General Comments

Span 3 Near Bearing 1

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	0	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **311**	Corrosion	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

General Comments

Span 3 — Far Bearing 1

Fixed Bearing

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

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

General Comments

Span 3 — Near Bearing 2

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	1	0	0	1	Square Feet

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

General Comments

Span 3 — Far Bearing 2

Fixed Bearing

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

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

General Comments

Structure Number: **110106** Inspection Date: **08/09/2023**

Span 3 — Near Bearing 3

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	0	0	0	2	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**311**	Corrosion	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

General Comments

Span 3 — Far Bearing 3

Fixed Bearing

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

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

General Comments

Span 3 — Near Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	1	0	0	1	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**311**	Corrosion	active corrosion with section loss [up to 1/8 inch] on plates	3	1	1	Each
☑	**515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Far Bearing 4

Fixed Bearing

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**313**	Corrosion	corrosion with section loss (up to 1/8 inch)	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,540	1,490	0	50	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	MAP CRACKING UP TO 1/4 INCH SOUTHBOUND LANE 3 FOOT FROM WEST CURB	3	40	40	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 3, southbound lane, pothole (2 foot x 9 inch x full depth)	3	2	2	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	SOUTHBOUND LANE NEAR BENT 3 UNSOUND PATCHED AREA (4 FOOT X 2 FOOT) WITH CRACKING AND EDGE SPALLING (UP TO FULL DEPTH)	3	8	8	Square Feet

General Comments

Span 4 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,733	1,733	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ **12**	Cracking (RC and Other)	DEFECT NOT FOUND 08/08/2019	1			Square Feet

General Comments

Span 4 — Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	55	23	32	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	10		Feet
☑ **110**	Patched Area	2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 11/23/2021 [PAR] EAST FACE LOWER WEB OVER I-40 RIGHT WESTBOUND LANE, SPALL/IMPACT DAMAGE [14 FOOT X UP TO FULL WIDTH X UP TO 15 INCH UP BOTH FACES X UP TO 3.5 INCH DEEP] WITH MULTIPLE EXPOSED RUSTED PRIMARY REINFORCING [SECTION LOSS UP TO 1/16 INCH] WITH ADJACENT DELAMINATIONS [UP TO 18 INCH X 10 INCH]	2	14		Feet

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

General Comments

Span 4 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	55	32	23	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	20		Feet
☑ **110**	Patched Area	2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 : 2 - UP TO 1.5 FOOT X 10 INCH X 6 INCH SPALLS EAST AND BOTTOM FACE OVER WESTBOUND LANE	2	3		Feet
☑ **110**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 11/23/2021 : 4 FOOT-0 INCH LONG X 18 INCH HIGH X 3.5 INCH DEEP SPALL WITH REBAR EXPOSURE AT	1			Feet

General Comments

Span 4 Beam 3

Reinforced Concrete Girder

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

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

General Comments

Span 4 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	55	24	28	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Patched Area	2023 PREVIOUSLY REPAIRED, PARTIALLY SOUND PATCHES (UP TO 17 INCH X 11 INCH X 1 INCH DEEP), PREVIOUSLY NOTED AS: WEST FACE AT BENT 3, DELAMINATION/SPALL [4.5 FOOT X 2 FOOT X 1.25 INCH DEEP] WITH (3) EXPOSED RUSTED REINFORCING [SECTION LOSS UP TO 1/32 INCH]	3	3	3	Feet
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	24		Feet
☑ **110**	Delamination/Spall	at bent 4, west face, delamination (3 inch x 16 inch)	2	1	1	Feet
☑ **110**	Patched Area	2023 NEW REPAIR, PATCHED AREA, PREVIOUSLY NOTED AS: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 UNDERSIDE OVER I-40 RIGHT WESTBOUND LANE, MULTIPLE SPALLS/AREAS IMPACT DAMAGE [UP TO 3 INCH X 2 INCH X 1/2 INCH DEEP]	2	3		Feet
☑ **110**	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 11/23/2021 SPALLING 14 INCH LONG X 8.5 INCH WIDE X 2.5 INCH DEEP AT 17 FOOT-8 INCH OUT FRO INTERIOR. BENT 4 .	1			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	31	0	0	0	31	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**301**	Seal Damage	along the length of the joint, joint material deteriorated/torn/missing at random	4	31	31	Feet
☑	**301**	Debris Impaction	EXPANSION JOINT OVER BENT 3 HAS DEBRIS IMPACTION with vegetation growth	3		31	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	55	54	1	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**331**	Delamination/Spall	at bent 3 top of curb, spall [3 inch x 11 inch x up to 3/4 inch deep] no exposed rusted reinforcing	2	1	1	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	1	0	0	Each
515	Steel Protective Coating	2	1	0	0	1	Square Feet

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

General Comments

Span 4 — Far Bearing 1

Fixed Bearing

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

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

General Comments

Span 4 — Near Bearing 2

Movable Bearing

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

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

General Comments

Span 4 — Far Bearing 2

Fixed Bearing

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

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

General Comments

Span 4 — Near Bearing 3

Movable Bearing

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

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

General Comments

Span 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	0	0	1	Square Feet

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

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

General Comments

Span 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	2	1	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **311**	Corrosion	active corrosion with section loss [up to 1/8 inch]	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 4 — Far Bearing 4

Fixed Bearing

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

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

General Comments

Span 4 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,540	1,483	2	55	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	MAP CRACKING UP TO 1/4 INCH AT RANDOM THROUGHOUT TOPSIDE OF DECK	3	50	50	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	(PAR) at bent 4, (3) potholes (up to 3 foot x 8 inch x full depth)	3	5	5	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	1 FOOT DIAMETER PATCH SOUTHBOUND LANE BENT 3.	2	2		Square Feet

General Comments

Span 5 — Expansion Joint 4

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	31	0	0	0	31	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **301**	Seal Adhesion	along the length of the joint, joint material deteriorated/torn/missing at randomg	4	31	31	Feet
☑ **301**	Debris Impaction	EXPANSION JOINT OVER BENT 4 HAS DEBRIS IMPACTION WITH VEGETATION GROWTH	3		31	Feet

General Comments

Span 5 — Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	26	28	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Patched Area	span 5 bay 1 near diphragm failed patch with crack (up to 1/4 inch x full width)	3		1	Feet
☑ **110**	Cracking (RC and Other)	VERTICAL CRACKS AND TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/32 INCH AT RANDOM THROUGHOUT	2	25		Feet
☑ **110**	Delamination/Spall	at bent 4, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar	2	1	1	Feet
☑ **110**	Delamination/Spall	SPAN 5 BEAM 1 WEST FACE WEB OVER BENT 4. HAS A CRACKED AND DELAMINATED AREA. AREA IS: 24 INCH X 32 INCH	2	2	2	Feet

General Comments

Span 5 — Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	36	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	18		Feet

General Comments

Span 5 — Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	39	14	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Delamination/Spall	west face at bent 4, spall/delamination [2 foot x 3 inch wide x 1/2 inch deep]	3	1	1	Feet

☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT	2	14		Feet

General Comments

Span 5 — Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	54	25	29	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **110**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/32 INCH AT RANDOM THROUGHOUT	2	28		Feet
☑ **110**	Delamination/Spall	at bent 4, underside, spall (6 inch x 3 inch x 1/2 inch deep) with exposed rusted rebar	2	1	1	Feet

General Comments

Span 5 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	50	49	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Delamination/Spall	at 1st rail post, spall [3 inch diameter x up to 1 inch deep] with exposed rusted reinforcing [no section loss noted]	2	1	1	Feet

General Comments

Span 5 — 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	active corrosion with section loss [up to 1/8 inch]	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 5 — Far Bearing 1

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

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

General Comments

Span 5 — Near Bearing 2

Movable Bearing

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

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

General Comments

Span 5 — Far Bearing 2

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **313**	Corrosion	freckled rust	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	FRECKLED RUST	2	1	1	Square Feet
☑ **515**	Chalking (Steel Protective Coatings)	(combined with other notes 2023) FRECKLED RUST	1			Square Feet

General Comments

Span 5 — Far Bearing 3

Fixed Bearing

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

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

General Comments

Span 5 — Near Bearing 3

Movable Bearing

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

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

General Comments

Span 5 — Far Bearing 4

Fixed Bearing

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

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

General Comments

Span 5 — 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	active corrosion with section loss [up to 1/16 inch]	3	1	1	Each
☑ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 5 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,400	1,269	0	131	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 510	Crack (Wearing Surface)	along length of asphalt over end bent 2, transverse cracks [up to 1/4 inch x full roadway width]	3	31	31	Square Feet

☑ **510**	Crack (Wearing Surface)	UP TO 3 FOOT X 1/16 INCH TRANSVERSE CRACKS AT RANDOM THROUGHOUT	3	100	100	Square Feet
☑ **510**	Patched Area/Pothole (Wearing Surface)	(NOT FOUND 2023) 31 INCH X UP TO 1 FOOT X 1 INCH FULL DEPTH POT HOLE OVER BENT 4	1			Square 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	39	39	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ **234**	Cracking (RC and Other)	DEFECT NOT FOUND 08/08/2019	1			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	19	0	11	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	(3) UP TO 3 FOOT X 1/16 INCH HORIZONTAL CRACKS SOUTH AND NORTH FACE BAY 1	3	6	6	Feet
☑ **234**	Delamination/Spall	south face, west end, (2) delaminations (up to 13 inch x 19 inch)	3	2	2	Feet
☑ **234**	Exposed Rebar	(PAR) 2 FOOT X UP TO 16 INCH X 3 INCH DEEP SPALL WITH EXPOSED RUSTED PRIMARY REINFORCING [SECTION LOSS UP TO 1/8 INCH] AT SOUTHWEST CORNER	3	2	2	Feet
☑ **234**	Exposed Rebar	(PAR) 6 INCH DIAMETER X 1 INCH SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT SECTION LOSS SOUTH FACE UNDER BEAM 1	3	1	1	Feet

General Comments

Bent 1 Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	at top of column, southwest corner, delamination (3 foot x 11 inch); southeast corner, vertical crack (up to 1/16 inch x 2 foot)	3	1	3	Each

General Comments

Bent 1 Pile 2

Reinforced Concrete Column

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	**205**	Cracking (RC and Other)	DEFECT NOT FOUND 08/08/2019	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	9	21	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**234**	Cracking (RC and Other)	HORIZONTAL, TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/32 INCH AT RANDOM THROUGHOUT WITH ADJACENT DELAMINATION [UP TO 20 INCH X 2 INCH]	2	10		Feet
☑	**234**	Delamination/Spall	3 - UP TO 2 FOOT X 2 FOOT AREAS OF SPALL/HONEYCOMBING WITH HAIRLINE MAP CRACKING ON NORTH FACE BELOW BEAM 2- 4.	2	4	4	Feet
☑	**234**	Delamination/Spall	3 FOOT X UP TO 1/64 INCH HORIZONTAL CRACK WITH EFFLORESCENCE AND ADJACENT 3 FOOT X 8 INCH X 4 INCH DELAMINATION ON TOP SOUTHEAST CORNER	2	3	3	Feet
☑	**234**	Delamination/Spall	WEST END. HAS SCATTERED AREAS THAT ARE CRACKED UP TO 1/32 INCH AND DELAMINATED WITH SOME POP-OUTS UP TO 1/2 INCH DEEP	2	1	1	Feet
☑	**234**	Patched Area	3 FOOT X UP TO 3 FOOT PATCHED AREA SOUTH FACE UNDER BAY 3 NEAR BEAM 4	2	3		Feet

General Comments

Bent 2 Pile 1

Reinforced Concrete Column

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

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**205**	Delamination/Spall	base of column at northeast corner, spall [16 inch x 8 inch x 2 inch deep] with exposed rusted primary reinforcing [no loss noted]	3	1	1	Each
☑	**205**	Cracking (RC and Other)	7 FOOT X UP TO 1/32 INCH VERTICAL CRACKS NEAR BOTTOM OF CAP	2			Each

General Comments

Bent 2 — Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	3 FOOT X UP TO 1/32 INCH VERTICAL CRACKS NEAR BOTTOM OF CAP	2	1		Each

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	39	39	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ **234**	Cracking (RC and Other)	DEFECT NOT FOUND 08/08/2019	1			Feet

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	10	20	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	along the length of the cap, vertical cracks (up to 1/64 inch x full height) and longitudinal cracks (up to 1/32 inch x 6 foot) at random	2	16		Feet
☑ **234**	Delamination/Spall	north face under beam 4 delamination [2.5 foot x 1.5 foot] with associated map cracking [up to 1/64 inch] and honeycombing	2	3	3	Feet
☑ **234**	Patched Area	2023 PREVIOUSLY REPAIRED, PATCHED AREA (3 FOOT X 12 INCH), PREVIOUSLY NOTED AS: 9 INCH X FULL HEIGHT X 10 INCH SPALL WITH EXPOSED RUSTED REINFORCING [SECTION LOSS UP TO 1/16 INCH] NORTH WEST CORNER BENT 3	2	1		Feet

General Comments

Bent 3 — Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Abrasion/Wear (PSC/RC)	FULL HEIGHT X UP TO 2 FOOT X 1 INCH DEEP AREA OF HONEYCOMBING WEST FACE	2			Each

☑ **205**	Cracking (RC and Other)	along length of the column, vertical cracks (up to 1/32 inch x full height) at random		2	1		Each

General Comments

Bent 3 — Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	4 FOOT X UP TO 1/16 INCH VERTICAL CRACK EAST FACE NEAR BOTTOM OF CAP	3	1	1	Each
☑ **205**	Delamination/Spall	(not found 2023) South face of pile, delamination [2 foot x 6 foot]	1			Each

General Comments

Bent 4 — 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	17	12	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Efflorescence/Rust Staining	(PAR) 16 INCH X UP TO 1/32 INCH VERTICAL CRACK WITH RUST STAIN NORTH FACE UNDER BEAM 1	3	1	1	Feet
☑ **234**	Cracking (RC and Other)	TRANSVERSE AND WRAPAROUND CRACKS UP TO 1/64 INCH AT RANDOM THROUGHOUT WITH SOME POP OUTS	2	12		Feet

General Comments

Bent 4 — Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Delamination/Spall	on east and west faces, delamination [up to 4.5 foot x 2 foot] with cracks (up to 1/32 inch)	2	1	1	Each

General Comments

Bent 4 — Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	along length of the column, multiple vertical cracks [5 foot x 1/64 inch]	2	1		Each

General Comments

Elements Verfied

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

Elements Verfied

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

Elements Verfied

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

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110106 **Inspection Date:** 08/09/2023

National Bridge Inventory Items

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

Note:

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

For overall NBI coding grade, see cover sheet.

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**P**	**7183**	**3376**
Drainage System	G, F, P, or C	**P**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	**G**	**0**	**3350**
Field Scour Evaluation				
Drift	G, F, P, or C			
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Superstructure Paint Code				

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**Y**
Inspection Time	Hours	**7**
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	**Y**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**N**
Portion of Structure in > 3' of water	YES/NO	**N**

National Bridge and NC SMU Inspection Item Details

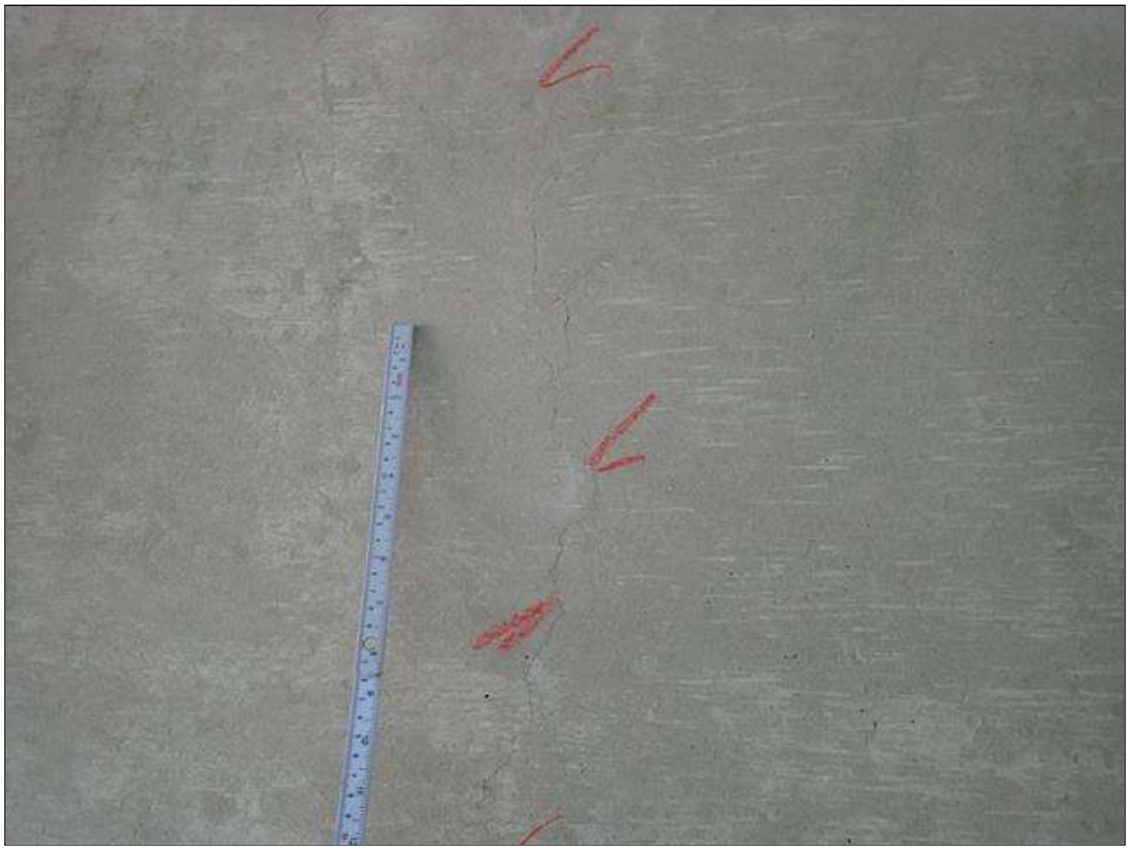
Structure Number: 110106 **Inspection Date:** 08/09/2023

Item	Deck Debris	**Grade**	P	**Maint Code**	3376	**Qty.**	7183
Details	along both curblines, debris accumulation (up to 29 inch x full length) with vegetation growth; fully obstructing deck drainage						

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

Item	General Comments and Misc Items	**Grade**		**Maint Code**		**Qty.**	0
Details	(PAR) southwest guardrail termination, impact damage						

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



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

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

(PAR) southwest guardrail termination, impact damage

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

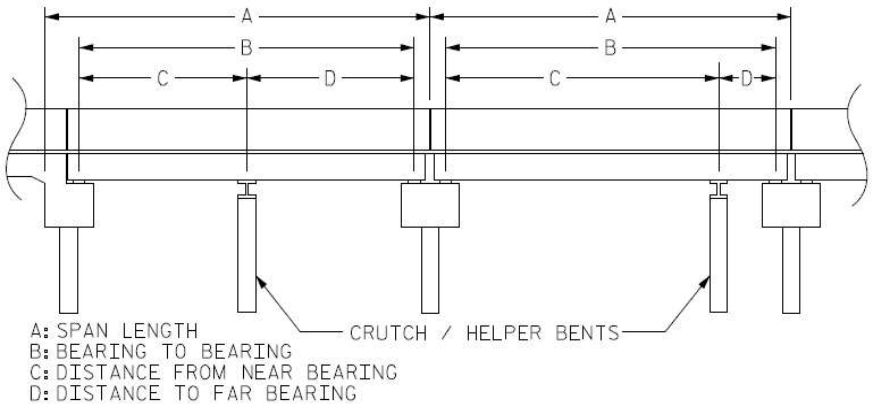
Bent 4 Pile 1: on east and west faces, delamination [up to 4.5 foot x 2 foot] with cracks (up to 1/32 inch)

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

Structure Data Worksheet

Span Profile

County: **BURKE** Structure Number: **110106**



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

Structure Number: 110106 Span: 3 Route Name: I 40 E

roadway under span 3, looking east

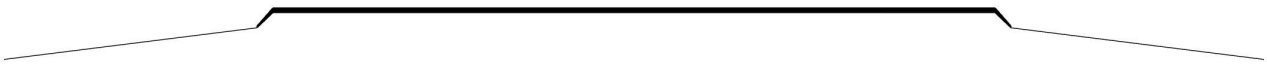
Route Number: 11000400	**Route Name:** I 40 E			**Reference Feature:** H
Minimum Vertical Clearance 16.340 feet	**Maximum Minimum Vertical Clearance** 17.280 feet			
Total Horizontal Clearance 40.070 feet	**Lateral Clearances: Left:** 12.980 feet **Right** 10.010 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10040			
Milepost: 98.980	**Number of Lanes:** 2	**ADT:** 16000	**Year of 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: 110106 Span: 4 Route Name: I40W

roadway under span 4, looking west

Route Number: 11000400	**Route Name:** I40W			**Reference Feature:** H
Minimum Vertical Clearance 14.300 feet	**Maximum Minimum Vertical Clearance** 14.900 feet			
Total Horizontal Clearance 41.050 feet	**Lateral Clearances: Left:** 13.440 feet **Right** 10.000 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number**			
Milepost: 98.980	**Number of Lanes:** 2	**ADT:** 16000	**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	22.833ft Wide	2 Paved Lanes	Looking North
Left Shoulder	8.5ft Wide	.5ft Paved	8ft Unpaved
Right Shoulder	8.5ft Wide	.5ft Paved	8ft Unpaved
Left Guardrail			
Right Guardrail			

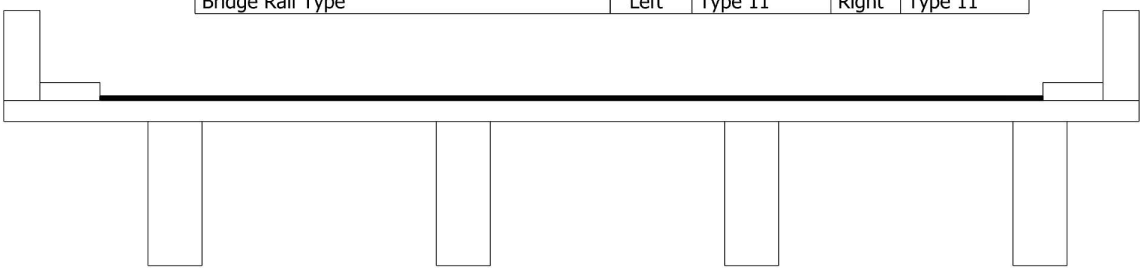
measurements taken 200ft from end bent 1

Title	Description
APPROACH ROADWAY	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110106	HABonilla	8/9/2023	S000906000211.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	33.5ft	Between Rails			31.333ft
Clear Roadway	28ft	Wearing Surface			1.5in
Median Width		Median Height			
Curb Height		Left	8in	Right	8in
Sidewalk Width		Left	1.667ft	Right	1.667ft
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	8in	Right	8in
Top of Rail to Deck/Wearing Surface		Left	2.5ft	Right	2.5ft
Bridge Rail Type		Left	Type 11	Right	Type 11



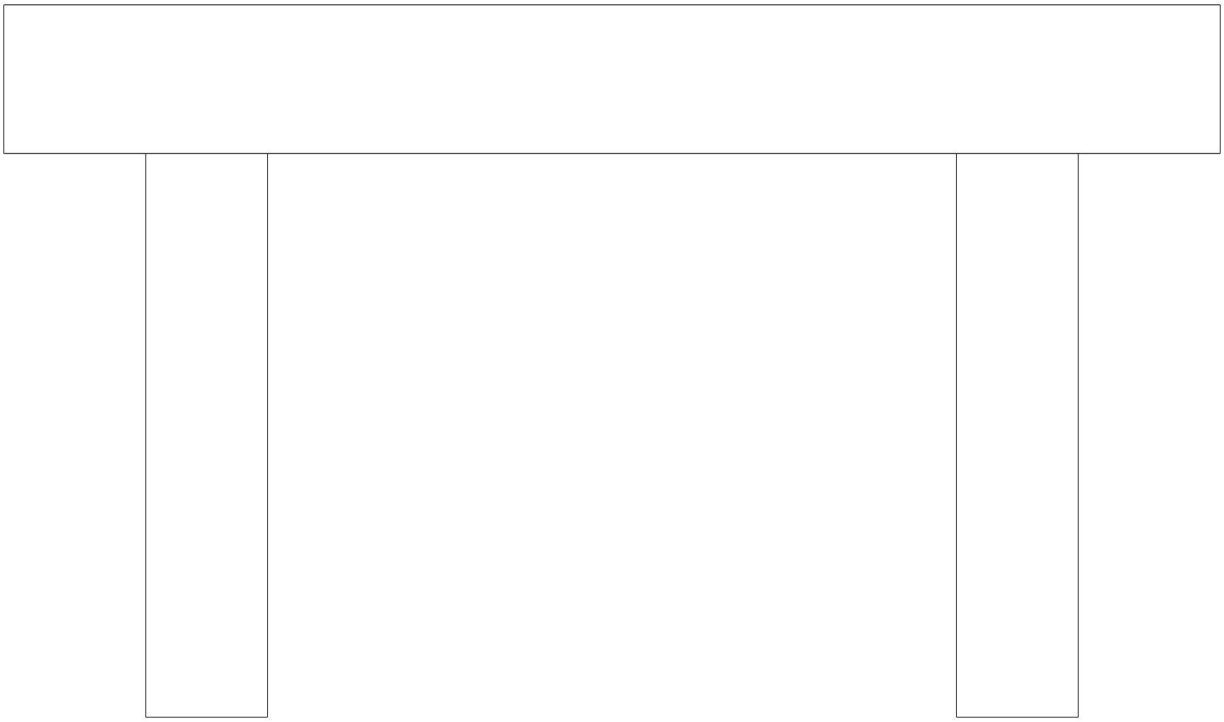
Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	7in	Left Overhang	4.75ft
Top of Rail to Bottom of Beam (Avg)	7.083ft	Right Overhang	4.75ft

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

Title	Description
TYPICAL SECTION SKETCH	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
110106	HABonilla	8/9/2023	S000906000212.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	36in	44in	1.833ft	3ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	5ft	Left End of Bent	36in	36in	9ft
2	Pile 2	Reinforced Concrete Column	20ft	Pile 1	36in	36in	9ft

Title	Description
BENT SKETCH	LOOKING NORTH

Structure No: 110106	Drawn By: HABonilla	Date: 8/9/2023	Filename: S000906000213.wes

west profile looking east

roadway under span 3, looking east

bent 1

bent 3

superstructure underside

intermediate diaphragm

east profile looking west

bent 2

end bent 1 and slope protection

southeast wingwall

end bearing assembly

interior bearing assembly

southwest wingwall

south approach looking north

southeast guardrail

southeast guardrail termination

southwest guardrail termination

southwest guardrail

southwest guardrail attachment

southeast guardrail attachment

southeast guardrail transition

end bent 1 asphalt

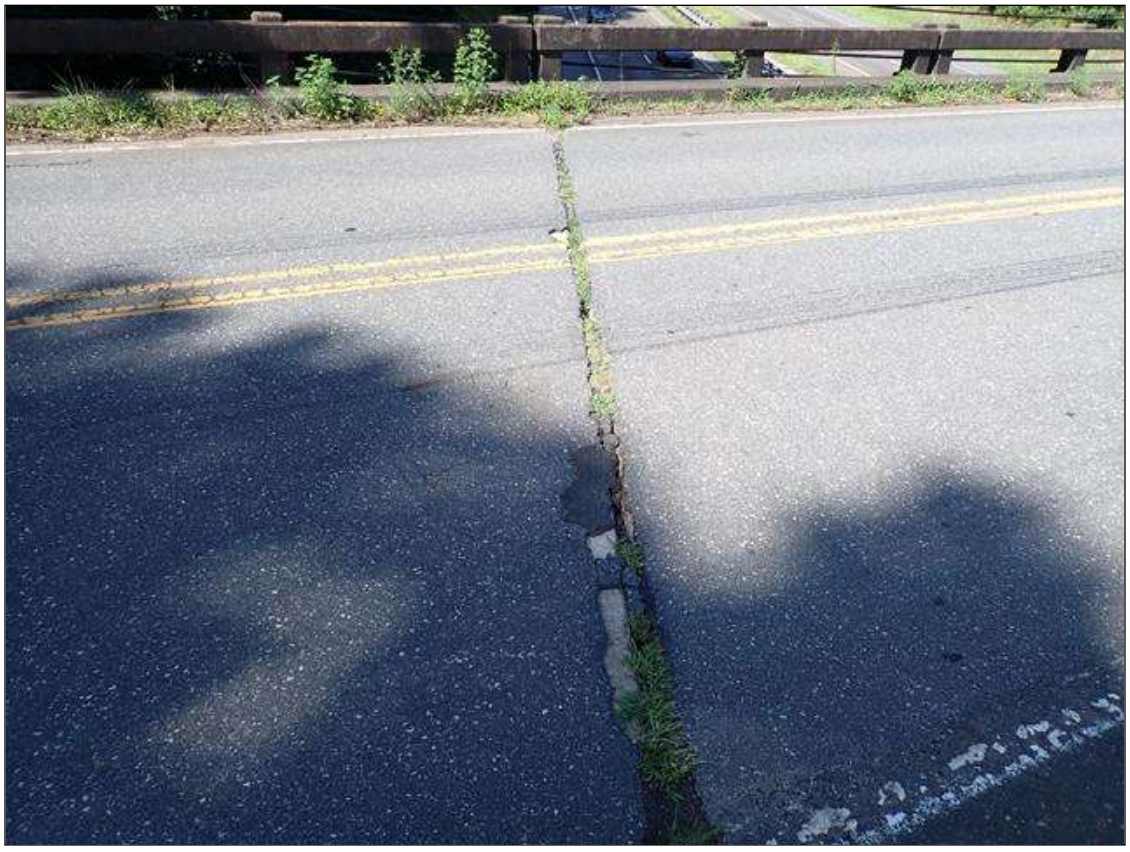
bent 1 joint

asphalt wearing surface

right bridge rail

left bridge rail

south approach looking south



bent 2 joint

roadway looking east

roadway looking west

bent 3 joint

north approach looking north

bent 4 joint

northeast guardrail attachment

northwest guardrail attachment

northwest guardrail transition

northwest guardrail

northeast guardrail

northwest guardrail termination

north approach looking south

end bent 2 asphalt

northwest wingwall

end bent 2 and slope protection

bent 4

northeast wingwall

roadway under span 4, looking west

span 4 beam 4 route sign closeup

ladder used

end diaphragm

bridge number

beams over bent

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