



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request; sketches updated; span 2 clearances updated; new repairs

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 110112 SAP STRUCTURE NO: 0120112 FHWA STRUCTURE NO: 00000000230112

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

FACILITY CARRIED: SR1142 MILE POST: _____

LOCATION: .45 MI.N.JCT.SR1197

FEATURE INTERSECTED: I40

LATITUDE: 35° 43' 4.59" LONGITUDE: 81° 45' 8.89"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT.BTS:RC P&B/PPC PILE FTGS.

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

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

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

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: none



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

south approach looking north

INSPECTED BY Juan Rodriguez	SIGNATURE 	ASSISTED BY Hector Bonilla
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

11/09/2023

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 110112
 (8) STRUCTURE NUMBER (FEDERAL) 0230112
 (5) INVENTORY ROUTE (ON/UNDER) ON 31011420
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 44400
 (6) FEATURE INTERSECTED 140
 (7) FACILITY CARRIED SR1142
 (9) LOCATION .45 MI.N.JCT.SR1197
 (11) MILEPOINT 0.0
 (12) BASE HIGHWAY NETWORK 0
 (13) LRS INVENTORY ROUTE & SUBROUTE 0
 (16) LATITUDE 35° 43' 4.59" (17) LONGITUDE 81° 45' 8.89"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 63.74
 STATUS =
CLASSIFICATION **CODE**
 (112) NBIS BRIDGE SYSTEM Y
 (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 0
 (102) DIRECTION OF TRAFFIC 2-way traffic 2
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

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

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

LOAD RATING AND POSTING

CODE
 (31) DESIGN LOAD HS 15 3
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-38 68
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-23 41
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1956
 (106) YEAR RECONSTRUCTED 0
 (42) TYPE OF SERVICE ON - Overpass Structure
 OFF - Highway CODE 61
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 8
 (29) AVERAGE DAILY TRAFFIC 13500
 (30) YEAR OF ADT 2019 (109) TRUCK ADT PCT 7
 (19) BYPASS OR DETOUR LENGTH 4.0

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

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 60.0
 (49) STRUCTURE LENGTH 246.0
 (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 31.5
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 28.0
 (33) BRIDGE MEDIAN CODE 6
 (34) SKEW 35 (35) STRUCTURE FLARED 0011
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 0.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE H 14.7
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 8.7
 (56) MIN LAT UNDERCLEARANCE LT: 13.3

PROPOSED IMPROVEMENTS

CODE
 (75) TYPE OF WORK
 (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 27,000 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 6
 (111) PIER PROTECTION CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0.0
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

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

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	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 E	11000400	9,999.0	99.7	1	10040	11	2	20000	2017	9,999.0	H	9,999.0	9,999.0	9,999.9			1	<input type="checkbox"/>	<input type="checkbox"/>
2	I 40 E	11000400	15.1	99.7	1	10040	11	2	20000	2017	41.8	H	14.9	8.8	13.4	3		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 W	11000400	14.9	99.7	1	10040	11	2	20000	2017	40.5	H	14.7	8.7	13.3	3		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I-40W	11000400	9,999.0	99.7	1	10040	11	2	20000	2017	9,999.0	H	9,999.0	9,999.0	9,999.9			1	<input type="checkbox"/>	<input type="checkbox"/>

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 61.500

Skew 55.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1722 Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1938 Square Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
4	Plate Girder	Steel Open Girder/Beam	244 Feet	Legacy Non Lead Primer System with various Topcoats	2280
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	124 Feet		

Span Number 2

Span Length 61.500

Skew 55.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	33 Feet		
4	Plate Girder	Steel Open Girder/Beam	248 Feet	Legacy Non Lead Primer System with various Topcoats	2256
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1938 Square Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1722 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	124 Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4

Span Number 3

Span Length 61.500

Skew 55.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	33 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	124 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1722 Square Feet		

Superstructure Build Details

4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1938 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	248 Feet	Legacy Non Lead Primer System with various Topcoats	2256

Span Number 4

Span Length 61.500

Skew 55.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Plate Girder	Steel Open Girder/Beam	244 Feet	Legacy Non Lead Primer System with various Topcoats	2240
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1938 Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	1722 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	124 Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Standard Joint	Pourable Joint Seal	33 Feet		

Structure Element Scoring

Structure Number: 110112

Inspection Date 8/17/2023

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	7,752	6,127	1,625	0	0
107		Steel Open Girder/Beam	Beam	984	887	77	18	2
515	107	Steel Protective Coating	Beam	9,032	8,933	0	78	21
205		Reinforced Concrete Column	Piles and Columns	9	3	1	4	1
215		Reinforced Concrete Abutment	Abutments	110	99	2	9	0
220		Reinforced Concrete Pile Cap/Footing	Footing	15	15	0	0	0
226		Prestressed Concrete Pile	Piles and Columns	12	12	0	0	0
234		Reinforced Concrete Pier Cap	Caps	189	68	20	69	32
301		Pourable Joint Seal	Expansion Joints	99	99	0	0	0
311		Movable Bearing	Bearing Device	16	0	7	9	0
515	311	Steel Protective Coating	Bearing Device	16	0	1	6	9
313		Fixed Bearing	Bearing Device	16	3	9	1	3
515	313	Steel Protective Coating	Bearing Device	16	3	3	2	8
331		Reinforced Concrete Bridge Railing	Bridge Rail	496	440	54	1	1
510		Wearing Surface	Wearing Surfaces	6,888	5,858	900	130	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110112**

Inspection Date: **08/17/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	1625 Square Feet
3314	Steel Open Girder/Beam	Corrosion	13 Feet
3314	Steel Open Girder/Beam	Connection	5 Feet
3314	Steel Open Girder/Beam	Distortion	7 Feet
3348	Reinforced Concrete Column	Efflorescence/Rust Staining	1 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	5 Each
3348	Reinforced Concrete Column	Exposed Rebar	2 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	5 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	4 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	37 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	4 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	84 Feet
3334	Movable Bearing	Corrosion	9 Each
3334	Fixed Bearing	Corrosion	1 Each
3334	Fixed Bearing	Connection	3 Each
3334	Fixed Bearing	Loss of Bearing Area	1 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	3 Feet
2816	Wearing Surface	Crack (Wearing Surface)	1028 Square Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	2 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	1 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	127 Square Feet

Element Structure Maintenance Quantities

Structure Number: 110112

Inspection Date 08/17/2023

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	25	984	2.000	18.000	77.000	887.000
Beam	3342	Clean and Paint Steel	99	9032	21.000	78.000	0.000	8933.000
Bearing Device	3334	Bridge Bearing	9	16	0.000	9.000	7.000	0.000
Bearing Device	3334	Bridge Bearing	5	16	3.000	1.000	9.000	3.000
Bearing Device	3342	Clean and Paint Steel	16	16	9.000	6.000	1.000	0.000
Bearing Device	3342	Clean and Paint Steel	13	16	8.000	2.000	3.000	3.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	3	496	1.000	1.000	54.000	440.000
Deck	3326	Maintenance of Concrete Deck	1625	7752	0.000	0.000	1625.000	6127.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	99	0.000	0.000	0.000	99.000
Wearing Surfaces	2816	Asphalt Surface Repair	1030	6888	0.000	130.000	900.000	5858.000
Abutments	3350	Maintenance of Concrete Wings and Wall	9	110	0.000	9.000	2.000	99.000
Caps	3348	Maintenance of Concrete Substructure	125	189	32.000	69.000	20.000	68.000
Footing	3348	Maintenance of Concrete Substructure	0	15	0.000	0.000	0.000	15.000
Piles and Columns	3348	Maintenance of Concrete Substructure	8	9	1.000	4.000	1.000	3.000
Piles and Columns	3348	Maintenance of Concrete Substructure	0	12	0.000	0.000	0.000	12.000

Priority Actions Request

Structure Number 110112

Span1

3318 Left Bridge Rail Concrete Railing

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	1	Span 1 Left Bridge Rail: [PAR] at base of rail post 8, spall [12 inch x 7 inch x up to 4 inch deep] with exposed rusted reinforcing with no loss

Span2

3314 Beam 1 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	7	Span 2 Beam 1: (PAR) over both travel lanes, multiple vehicle impact with gouges [up to 3 inch x 1 inch x 1/2 inch deep]

3314 Beam 4 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, rust scale (10 inch); right stiffener (0.20 inch average remaining x full width x full height) with corrosion holes (up to 2 inch x 1 inch)
2	Corrosion	1	Span 2 Beam 4: [PAR] at far end, corrosion with section loss: web below diaphragm [11 inch x 2 inch x 7/16 inch average remaining]; right stiffener [0.30 inch average remaining x full width x full height]

Span 3

3334 Beam 1 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	Span 3 Near Bearing 1: [PAR] right and left attachment bolt sheared
2	Corrosion	1	Span 3 Beam 1: (PAR) 16 INCH X 10 INCH X 6 INCH DIAPHRAGM SPALL WITH EXPOSED REINFORCING WEST OVERHANG AT BENT 3
2	Corrosion	5	Span 3 Beam 1: (PAR) UP TO 8 FOOT X 10 INCH X 2 INCH DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, BAY 1 OVER BENT 3

3314 Beam 2 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 3 Beam 2: (PAR) 4 FOOT X 10 INCH X 6 INCH X 2.5 INCH DEEP DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, BAY 2 OVER BENT 3
2	Loss of Bearing Area	1	Span 3 Beam 2 - Near Bearing 2: [PAR] SPAN 3 BEAM 2 NEAR BEARING NORTHWEST CORNER HAS 5 INCH X 3 INCH X 4 INCH DEEP AREA OF BEARING LOSS. DUE TO BENT 2 CAP SPALLED AREA.

Priority Actions Request

Structure Number 110112

3334	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	Span 3 Beam 3 - Near Bearing 3: [PAR] right and left attachment bolt sheared
2	Corrosion	1	Span 3 Beam 3: (PAR) 5 FOOT X UP TO 12 INCH X 2.5 INCH DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, BAY 3 OVER BENT 3

3334	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	Span 3 Beam 4 - Near Bearing 4: [PAR] right and left attachment bolt sheared, masonry plate rotated
2	Corrosion	2	Span 3 Beam 4: (PAR) 2 FOOT X 10 INCH X 8 INCH DIAPHRAGM SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, EAST OVERHANG AT BENT 3
2	Distortion	1	Span 3 Beam 4: (PAR) over right travel lane, impact damage (12 inch x 1 inch x 1/4 inch deep)

Bent 1

3348	Cap 1	Reinforced Concrete Pier Cap	
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	28	Bent 1 Cap 1: (PAR) MULTIPLE UP TO 8 FOOT X 2.5 FOOT CRACKED/FAILED PATCHED AREAS WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, THROUGHOUT BOTTOM AND SOUTH FACE

Bent 2

3348	Cap 1	Reinforced Concrete Pier Cap	
Priority Level	Defect Type	Quantity	Defect Description
2	Efflorescence/Rust	4	Bent 2 Cap 1: (PAR) CRACKED PATCHED AREA SOUTHEAST BOTTOM CORNER WITH EFFLORESCENCE BUILD-UP
2	Exposed Rebar	4	Bent 2 Cap 1: (PAR) 4 FOOT X 1 FOOT X 1 FOOT X 3 INCH DEEP CORNER SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, NORTH FACE UNDER BEAM 2
2	Exposed Rebar	3	Bent 2 Cap 1: [PAR] South face at East end, corner spall [27 inch x 14 inch x 12 inch x 3 inch deep] with exposed rusted reinforcing [section loss up to 1/8 inch]

Bent 3

3348	Cap 1	Reinforced Concrete Pier Cap	
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Bent 3 Cap 1: (PAR) North face below beam 1, spall [13 inch x 15 inch x 1 inch deep] with exposed rusted reinforcing [section loss up to 1/16 inch]

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

Priority Actions Request

Structure Number 110112

3348	Pile 1	Reinforced Concrete Column		
Priority Level	Defect Type	Quantity	Defect Description	
2	Exposed Rebar	1	Bent 3 Pile 1: (PAR) 34 INCH X UP TO 13 INCH X 1.5 INCH DEEP SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, 8 FOOT FROM BOTTOM OF CAP EAST FACE	
3348	Pile 2	Reinforced Concrete Column		
Priority Level	Defect Type	Quantity	Defect Description	
2	Exposed Rebar	1	Bent 3 Pile 2: [PAR] at Southeast corner, spall [8.5 foot x 11 inch x 2.5 inch deep] with exposed rusted reinforcing [section loss up to 1/8 inch]	
3348	Pile 3	Reinforced Concrete Column		
Priority Level	Defect Type	Quantity	Defect Description	
2	Efflorescence/Rust	1	Bent 3 Pile 3: (PAR) 2 - VERTICAL CRACKS UP TO FULL HEIGHT X UP TO 1/8 INCH WITH RUST STAINS AND ADJACENT DELAMINATION FULL HEIGHT X 2 FOOT ON WEST FACE	

Approach Guardrail and Barriers

3120	Approach Guardrail and Barriers	Approach Guardrail and Barriers		
Priority Level	Defect Type	Quantity	Defect Description	
2		1	(PAR) southwest guardrail, 2nd post from end bent 1, decay (full height x full width x full depth)	

Element Condition and Maintenance Data

Structure Number: 110112

Inspection Date: 08/17/2023

Span 1 Deck Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,938	1,838	100	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	MAP CRACKING UP TO 1/64 INCH SOME WITH EFFLORESCENCE DECK UNDERSIDE AT RANDOM THROUGHOUT	2	100	100	Square Feet

General Comments

Span 1 Beam 1 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	61	61	0	0	0	Feet
515	Steel Protective Coating	570	570	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 107	Distortion	2023 new repair, previously noted as: IMPACT DAMAGE - THE SOUTH MOST 30 FOOT DEFLECTED 1 INCH EASTWARD . SCATTERED SCRAPES WITH 1/16 INCH INDENTIONS THROUGH OUT A 7 FOOT LONG X 2 FOOT-7 INCH HIGH AREA AT 12 FOOT OUT FROM END BENT 1 (POINT OF IMPACT). THERE IS A 1 FOOT-8 INCH LONG X 1/2 INCH WIDE X 1/16 INCH DEEP SCRAPE ON THE BOTTOM FLANGE AT 12 FOOT OUT FROM END BENT 1 .	1			Feet

General Comments

Span 1 Beam 2 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	61	60	0	1	0	Feet
515	Steel Protective Coating	570	569	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 107	Corrosion	at bent 1, corrosion with section loss: web adjacent to diaphragm (1/2 inch average remaining x 10 inch x 5 inch); left stiffener (0.35 inch average remaining x full width x full height)	3	1	1	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	DEFECT NOT FOUND 08/07/2019	1			Square Feet

General Comments

Span 1**Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	61	60	1	0	0 Feet
515	Steel Protective Coating	570	569	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at bent 1, web adjacent to diaphragm, rust scale (10 inch)	2	1	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1 Square Feet

General Comments**Span 1****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	61	60	1	0	0 Feet
515	Steel Protective Coating	570	569	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at bent 1, web adjacent to diaphragm, rust scale (10 inch)	2	1	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1 Square Feet

General Comments**Span 1****Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	62	52	9	0	1 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Delamination/Spall	[PAR] at base of rail post 8, spall [12 inch x 7 inch x up to 4 inch deep] with exposed rusted reinforcing with no loss	4	1	1 Feet
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	9	Feet

General Comments**Span 1****Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	62	58	3	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Delamination/Spall	at Southeast corner, spall [5 inch x full width x 1/2 inch deep]	3	1	1 Feet

<input checked="" type="checkbox"/>	331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	3	Feet
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General Comments

Span 1 Near Bearing 1 Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	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
<input checked="" type="checkbox"/>	313	Corrosion	surface rust/rust scale	2	1 Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1 Square Feet

General Comments

Span 1 Far Bearing 1 Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	311	Corrosion	surface rust	2	1 Each
<input checked="" type="checkbox"/>	515	Peeling/Bubbling/Crack	surface rust ing (steel Protective Coatings)	3	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
<input checked="" type="checkbox"/>	311	Corrosion	surface rust	2	1 Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	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	
<input checked="" type="checkbox"/> 311	Corrosion	surface rust	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 Near Bearing 4
Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	
<input checked="" type="checkbox"/> 313	Corrosion	surface rust	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments

Span 1 Far Bearing 4
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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	
<input checked="" type="checkbox"/> 311	Corrosion	freckled rust/surface rust	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	freckled rust/surface rust	3	1	1	Square Feet

General Comments

Span 1 Wearing Surface
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,722	1,407	250	65	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	32 FOOT X UP TO 1/4 INCH TRANSVERSE CRACKS OVER END BENT 1 AND BENT 1 WITH VEGETATION GROWTH	3	64	64	Square Feet

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<input checked="" type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	near midspan, southbound lane, pothole/broken asphalt [5 inch x 11 inch x up to 1 inch deep]	3	1	1	Square Feet
<input checked="" type="checkbox"/>	510	Crack (Wearing Surface)	scattered throughout, multiple transverse and longitudinal cracks [up to 6 foot x up to 1/32 inch]	2	250	250	Square Feet
<input checked="" type="checkbox"/>	510	Patched Area/Pothole (Wearing Surface)	(NOT FOUND 2023) SPAN 1 WEARING SURFACE HAS SCATTERED PATCHED AREAS WITH SOME HAIRLINE CRACKS. PATCHES APPEAR TO BE SOUND.	1			Square Feet

General Comments

Span 2 Deck Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,938	1,763	175	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	12	Cracking (RC and Other)	scattered in underside of deck, transverse cracks (up to 1/32 inch x full width) and map cracking (hairline)	2	175	175 Square Feet

General Comments

Span 2 Beam 1 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	62	54	0	8	0 Feet
515	Steel Protective Coating	564	553	0	10	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, corrosion with section loss: web adjacent to diaphragm (1/2 inch average remaining x 10 inch x 1 inch); right stiffener (0.30 average remaining x full width x full height)	3	1	1 Feet
<input checked="" type="checkbox"/>	107	Damage	over both travel lanes, impact damage	3		Feet
<input checked="" type="checkbox"/>	107	Distortion	(PAR) over both travel lanes, multiple vehicle impact with gouges [up to 3 inch x 1 inch x 1/2 inch deep] with surface rust	3	7	7 Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	underside of coverplate over right travel lane, impact scrapes with surface rust	3	10	10 Square Feet

General Comments

Span 2 Beam 2 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	62	51	11	0	0 Feet
515	Steel Protective Coating	564	553	0	10	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, web adjacent to diaphragm, rust scale (10 inch)	2	1	Feet

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<input checked="" type="checkbox"/>	107	Corrosion	underside of coverplate over right travel lane, impact scrapes with surface rust	2	10	Feet
<input checked="" type="checkbox"/>	107	Damage	impact damage	2		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	underside of coverplate over right travel lane, impact scrapes with surface rust	3	10	10 Square Feet

General Comments**Span 2****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	62	50	12	0	0 Feet
515	Steel Protective Coating	564	552	0	10	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Corrosion			
		at bent 1, web adjacent to diaphragm, rust scale (10 inch)	2	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		at bent 2, web adjacent to diaphragm, rust scale (10 inch)	2	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		underside of coverplate over right travel lane, impact scrapes with surface rust	2	10	Feet
<input checked="" type="checkbox"/>	107	Damage			
		impact damage	2		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		rust scale	4	2	2 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		underside of coverplate over right travel lane, impact scrapes with surface rust	3	10	10 Square Feet

General Comments**Span 2****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	62	50	10	0	2 Feet
515	Steel Protective Coating	564	552	0	10	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Corrosion			
		(PAR) at bent 1, web adjacent to diaphragm, rust scale (10 inch); right stiffener (0.20 inch average remaining x full width x full height) with corrosion holes (up to 2 inch x 1 inch)	4	1	1 Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		[PAR] at far end, corrosion with section loss: web below diaphragm [11 inch x 2 inch x 7/16 inch average remaining]; right stiffener [0.30 inch average remaining x full width x full height]	4	1	1 Feet
<input checked="" type="checkbox"/>	107	Corrosion			
		underside of coverplate over right travel lane, impact scrapes with surface rust	2	10	Feet
<input checked="" type="checkbox"/>	107	Damage			
		impact damage	2		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		rust scale/corrosion with section loss	4	2	2 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			
		underside of coverplate over right travel lane, impact scrapes with surface rust	3	10	10 Square 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	33	33	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 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	62	56	6	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	6	Feet

General Comments

Span 2 Right Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	62	57	5	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	5	Feet

General Comments

Span 2 Near Bearing 1**Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	surface rust/rust scale	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1 Square Feet

General Comments

Span 2**Far Bearing 1****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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	
<input checked="" type="checkbox"/> 311	Corrosion	surface rust	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments**Span 2****Near Bearing 2****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	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	
<input checked="" type="checkbox"/> 313	Corrosion	surface rust/rust scale	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

General Comments**Span 2****Far Bearing 2****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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	
<input checked="" type="checkbox"/> 311	Corrosion	surface rust	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet

General Comments**Span 2****Near Bearing 3****Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Corrosion	surface rust/rust scale	2	1		Each

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet
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General Comments**Span 2 Far Bearing 3****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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	
<input checked="" type="checkbox"/>	311	Corrosion	FRECKLED RUST	2	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	FRECKLED RUST	2	1	1 Square Feet

General Comments**Span 2 Near Bearing 4****Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	313	Corrosion	rust scale	2	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1 Square Feet

General Comments**Span 2 Far Bearing 4****Movable Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	311	Corrosion	surface rust/rust scale and pack rust (up to 1/4 inch)	3	1	1 Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale/pack rust	4	1	1 Square Feet

General Comments

Span 2**Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,722	1,489	200	33	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	32 FOOT X UP TO 1/4 INCH TRANSVERSE CRACKS OVER BENT 2 WITH MULTIPLE AREAS OF BROKEN ASPHALT	3	32	32	Square Feet
<input checked="" type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	at bent 2 beside white line in Southbound lane, pothole [9 inch x up to 3 inch x full depth] and by centerline pothole [3 inch diameter x full depth]	3	1	1	Square Feet
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	scattered throughout, multiple transverse and longitudinal cracks [up to 4 foot x up to 1/32 inch]	2	200	200	Square Feet

General Comments

Span 3**Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,938	1,788	150	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	SPAN 3 BOTTOM OF DECK HAS SCATTERED MAP CRACKS HAIRLINE AND TRANSVERSE CRACKS UP 1/32 INCH X FULL WIDTH	2	150	150	Square Feet

General Comments

Span 3**Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	62	39	21	2	0	Feet
515	Steel Protective Coating	564	541	0	20	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 107	Connection	(PAR) UP TO 8 FOOT X 10 INCH X 2 INCH DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, BAY 1 OVER BENT 3	4		1	Feet
<input checked="" type="checkbox"/> 107	Connection	(PAR) 16 INCH X 10 INCH X 6 INCH DIAPHRAGM SPALL WITH EXPOSED REINFORCING WEST OVERHANG AT BENT 3	3		1	Feet
<input checked="" type="checkbox"/> 107	Corrosion	at far end arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1 inch x 1/2 inch average remaining]; arrested metal loss, lower web [8 inch x 1.5 inch x 9/16 inch average remaining]	3	2	2	Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 2, web adjacent to diaphragm, rust scale (10 inch)	2	1		Feet
<input checked="" type="checkbox"/> 107	Corrosion	underside of coverplate over right travel lane, impact scrapes with surface rust	2	20		Feet
<input checked="" type="checkbox"/> 107	Damage	impact damage	2			Feet

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<input checked="" type="checkbox"/>	107	Connection	(2023 defect moved to bearing) right and left attachment bolt sheared	1		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	rust scale/corrosion with section loss	4	3	3 Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	underside of coverplate over right travel lane, impact scrapes with surface rust	3	20	20 Square Feet

General Comments**Span 3****Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	62	50	11	1	0 Feet
515	Steel Protective Coating	564	552	0	10	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Connection			1 Feet
		(PAR) 4 FOOT X 10 INCH X 6 INCH X 2.5 INCH DEEP DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, BAY 2 OVER BENT 3	4		
<input checked="" type="checkbox"/>	107	Corrosion			1 Feet
		at far end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1 inch x 9/16 inch average remaining]; pitting [up to 1/8 inch deep]	3	1	
<input checked="" type="checkbox"/>	107	Corrosion			Feet
		at bent 2, painted over pitting with corrosion reactivating: web (up to 1/16 inch x 10 inch x full height)	2	1	
<input checked="" type="checkbox"/>	107	Corrosion			Feet
		underside of coverplate over right travel lane, impact scrapes with surface rust	2	10	
<input checked="" type="checkbox"/>	107	Damage			Feet
		impact damage	2		
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			2 Square Feet
		corrosion with section loss	4	2	
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)			10 Square Feet
		underside of coverplate over right travel lane, impact scrapes with surface rust	3	10	

General Comments**Span 3****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	62	55	6	1	0 Feet
515	Steel Protective Coating	564	557	0	5	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/>	107	Connection			1 Feet
		(PAR) 5 FOOT X UP TO 12 INCH X 2.5 INCH DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, BAY 3 OVER BENT 3	4		
<input checked="" type="checkbox"/>	107	Corrosion			1 Feet
		at far end arrested metal loss/pitting with corrosion reactivating, web at diaphragm [10 inch x 3 inch x 1/16 inch deep]	3	1	
<input checked="" type="checkbox"/>	107	Corrosion			Feet
		at bent 2, web adjacent to diaphragm, rust scale (10 inch)	2	1	
<input checked="" type="checkbox"/>	107	Corrosion			Feet
		underside of coverplate over both travel lanes, impact scrapes with surface rust	2	5	

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<input checked="" type="checkbox"/>	107	Damage	impact damage	2		2	Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	rust scale/corrosion with section loss	4	2	2	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	underside of coverplate over both travel lanes, impact scrapes with surface rust	3	5	5	Square Feet

General Comments**Span 3****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	62	57	4	1	0	Feet
515	Steel Protective Coating	564	560	0	3	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	107	Connection	(PAR) 2 FOOT X 10 INCH X 8 INCH DIAPHRAGM SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, EAST OVERHANG AT BENT 3	4		1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 inch x full height)	3	1	1	Feet
<input checked="" type="checkbox"/>	107	Corrosion	at bent 3, web adjacent to diaphragm, rust scale (10 inch)	2	1		Feet
<input checked="" type="checkbox"/>	107	Damage	over right travel lane, impact damage	2			Feet
<input checked="" type="checkbox"/>	107	Distortion	(PAR) over right travel lane, impact damage with distortion (12 inch x 1 inch x 1/4 inch deep) and scrapes with surface rust	2	3		Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1	Square Feet
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	underside of coverplate over right travel lane, impact scrapes with surface rust	3	3	3	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	33	33	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input type="checkbox"/>	301	Debris Impaction	MOVED TO ASPHALT WEARING SURFACE	1			Feet

General Comments**Span 3****Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	62	59	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	3		Feet

General Comments

Span 3 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	62	55	7	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	7	Feet

General Comments

Span 3 Near Bearing 1

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Connection	[PAR] right and left attachment bolt sheared	4	1	1 Each
<input checked="" type="checkbox"/> 313	Corrosion	FRECKLED RUST	2		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	FRECKLED RUST	2	1	1 Square Feet

General Comments

Span 3 Far Bearing 1

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	corrosion with section loss (up to 1/8 inch loss) with pack rust (up to 3/8 inch)	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss/pack rust	4	1	1 Square Feet

General Comments

Span 3 Near Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	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
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Structure Number: **110112**

Inspection Date: **08/17/2023**

<input checked="" type="checkbox"/>	313	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3		1	Each
<input checked="" type="checkbox"/>	313	Loss of Bearing Area	[PAR] SPAN 3 BEAM 2 NEAR BEARING NORTHWEST CORNER HAS 5 INCH X 3 INCH X 4 INCH DEEP AREA OF BEARING LOSS. DUE TO BENT 2 CAP SPALLED AREA.	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 3 Far Bearing 2 Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	311	Corrosion				
		corrosion with section loss (up to 1/16 inch deep) with pack rust (up to 3/8 inch)	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				
		corrosion with section loss/pack rust	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 3 Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	313	Connection				
		[PAR] right and left attachment bolt sheared	4	1	1	Each
<input checked="" type="checkbox"/>	313	Corrosion				
		rust scale	2			Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				
		rust scale	4	1	1	Square Feet

General Comments

Span 3 Far Bearing 3 Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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	
<input checked="" type="checkbox"/>	311	Corrosion				
		active surface corrosion with pack rust up to 3/8 inch	3	1	1	Each
<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				
		surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 Near Bearing 4
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Connection	[PAR] right and left attachment bolt sheared, masonry plate rotated	4	1	1	Each
<input checked="" type="checkbox"/> 313	Corrosion	FRECKLED RUST	2			Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	FRECKLED RUST	2	1	1	Square Feet

General Comments

Span 3 Far Bearing 4
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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	
<input checked="" type="checkbox"/> 311	Corrosion	active surface corrosion with pack rust up to 3/8 inch	3	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 3 Wearing Surface
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,722	1,440	250	32	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	32 FOOT X UP TO 1/4 INCH TRANSVERSE CRACKS OVER BENT 3 WITH VEGETATION	3	32	32	Square Feet
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	scattered throughout, multiple transverse and longitudinal cracks [up to 4 foot x up to 1/32 inch]	2	250	250	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	1,938	738	1,200	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	BOTTOM OF DECK HAS SCATTERED MAP CRACKS UP TO 1/64 INCH	2	1,200	1,200	Square Feet

General Comments**Span 4 Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	61	60	0	1	0 Feet
515	Steel Protective Coating	560	559	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at near end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1/2 inch x 9/16 inch average remaining]	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet

General Comments**Span 4 Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	61	60	0	1	0 Feet
515	Steel Protective Coating	560	559	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at near end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1/2 inch x 1/2 inch average remaining]; left stiffener [0.35 average remaining x full width x full height]	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet

General Comments**Span 4 Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	61	60	0	1	0 Feet
515	Steel Protective Coating	560	559	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at near end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1 inch x 9/16 inch average remaining]; lower web, pitting [10 inch x 3 inch x up to 1/16 inch deep]; left stiffener, pitting [up to 1/8 inch deep x full width x 4 inch]	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet

General Comments

Span 4 **Beam 4**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	61	60	0	1	0 Feet
515	Steel Protective Coating	560	559	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at near end, arrested metal loss with corrosion reactivating: web at diaphragm [10 inch x 1/2 inch x 9/16 inch average remaining]; left stiffener [0.30 inch average remaining x full width x full height]; lower web, pitting [up to 1/16 inch deep x 10 inch x 3 inch]	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet

General Comments

Span 4 **Expansion Joint 3**
Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	33	33	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 301	Debris Impaction	MOVED TO ASPHALT WEARING SURFACE	1		Feet

General Comments

Span 4 **Left Bridge Rail**
Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	62	56	6	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	5	Feet
<input checked="" type="checkbox"/> 331	Delamination/Spall	6th post from bent 3, spall (2 inch x 6 inch x 1 inch deep) with exposed rusted rebar	2	1	1 Feet

General Comments

Span 4 **Right Bridge Rail**
Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	62	47	15	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 331	Cracking (RC and Other)	along sidewalk multiple transverse cracks [up to 1/32 inch x full width]	2	8	Feet
<input checked="" type="checkbox"/> 331	Patched Area	SPAN 4 RIGHT RAIL HAS A REPAIR AREA BETWEEN POSTS 5 AND 6.	2	7	Square Feet

General Comments**Span 4 Near Bearing 1****Movable Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	active surface corrosion with pack rust up to 1/4 inch	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss/pack rust	4	1	1 Square Feet

General Comments**Span 4 Far Bearing 1****Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	surface rust/rust scale	2	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1 Square Feet

General Comments**Span 4 Near Bearing 2****Movable Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 311	Corrosion	corrosion with section loss (up to 1/16 inch deep) with pack rust (up to 1/4 inch)	3	1	1 Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss/pack rust	4	1	1 Square Feet

General Comments

Span 4 Far Bearing 2
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Corrosion	freckled rust	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	freckled rust	2	1	1	Square Feet

General Comments

Span 4 Near Bearing 3
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	Corrosion	active surface corrosion with pack rust up to 1/4 inch	3	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	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	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	Corrosion	active surface corrosion with pack rust up to 1/4 inch	3	1	1	Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/pack rust	4	1	1	Square Feet

General Comments

Span 4 Far Bearing 4
Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 313	Corrosion	surface rust	2	1		Each

<input checked="" type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet
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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	1,722	1,522	200	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	510	Crack (Wearing Surface)	scattered throughout, multiple transverse and longitudinal cracks [up to 4 foot x up to 1/32 inch]	2	200	200	Square Feet

General Comments**End Bent 1 Abutment****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	55	49	2	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	215	Cracking (RC and Other)	along the length of the abutment, at bottom flange penetrations, delaminations (up to 7 inch x 3 inch) with cracks (up to 1/16 inch)	3	4	4	Feet
<input checked="" type="checkbox"/>	215	Patched Area	16 INCH X UP TO 20 INCH PATCH WEST OVERHANG OF ABUTMENT	2	2		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	45	25	20	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	at multiple locations throughout in all bays, wraparound vertical cracks [up to full height x 1/32 inch]	2	20		Feet
<input type="checkbox"/>	234	Cracking (RC and Other)	DEFECT NOT FOUND 08/07/2019	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	33	5	0	0	28	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<input checked="" type="checkbox"/>	234	Exposed Rebar	(PAR) MULTIPLE UP TO 8 FOOT X 2.5 FOOT CRACKED/FAILED PATCHED AREAS WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, THROUGHOUT BOTTOM AND SOUTH FACE	4	28	28	Feet
<input checked="" type="checkbox"/>	234	Cracking (RC and Other)	MAP CRACKING AND HORIZONTAL CRACKS UP TO 1/16 INCH AT RANDOM THROUGHOUT NORTH AND SOUTH FACES	3		21	Feet
<input checked="" type="checkbox"/>	234	Delamination/Spall	(combined with other notes 2023) at Southeast corner, spall [11 inch x 4 inch x 3 inch deep] with exposed rusted reinforcing [no loss noted]	1			Feet

General Comments

Bent 1 Pile 1 Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	205	Cracking (RC and Other)	2 - UP TO 4 FOOT X 1/32 INCH VERTICAL CRACKS ON WEST FACE NEAR BOTTOM OF CAP	2	1	Each

General Comments

Bent 1 Pile 2 Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	205	Cracking (RC and Other)	2.5 FOOT X UP TO 1/16 INCH VERTICAL CRACK ON WEST FACE 6 INCH FROM BOTTOM OF CAP	3	1	1 Each

General Comments

Bent 1 Pile 3 Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	205	Cracking (RC and Other)	4 FOOT X UP TO 1/16 INCH VERTICAL CRACK ON EAST FACE NEAR BOTTOM OF CAP	3	1	1 Each

General Comments

Bent 2 Cap 1**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	33	3	0	26	4 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Exposed Rebar	(PAR) 4 FOOT X 1 FOOT X 1 FOOT X 3 INCH DEEP CORNER SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, NORTH FACE UNDER BEAM 2; UNDERMINING BEARING	4	4	4 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	ALONG THE LENGTH OF THE CAP, SCATTERED LONGITUDINAL CRACKS UP TO 1/16 INCH	3	19	19 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	North face below beam 3, delamination [29 inch x 3 inch] with cracks [up to 1/16 inch]	3	3	3 Feet
<input checked="" type="checkbox"/> 234	Efflorescence/Rust Staining	(PAR) CRACKED PATCHED AREA SOUTHEAST BOTTOM CORNER WITH EFFLORESCENCE BUILD-UP	3	1	4 Feet
<input checked="" type="checkbox"/> 234	Exposed Rebar	[PAR] South face at East end, corner spall [27 inch x 14 inch x 12 inch x 3 inch deep] with exposed rusted reinforcing [section loss up to 1/8 inch]	3	3	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	1	0	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 205	Cracking (RC and Other)	DEFECT NOT FOUND 08/07/2019	1		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	1	0	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 205	Cracking (RC and Other)	DEFECT NOT FOUND 08/07/2019	1		Each

General Comments**Bent 2 Pile 3****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
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205 Cracking (RC and Other) DEFECT NOT FOUND 08/07/2019 1 Each

General Comments

End Bent 2 Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	55	50	0	5	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 215	Delamination/Spall	along the length of the abutment, at bottom flange penetrations, spall/delaminations (up to 1.5 foot x 3 inch x 1 inch) with cracks (up to 1/16 inch)	3	5	5 Feet

General Comments

End Bent 2 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	45	29	0	16	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	16 FOOT X UP TO 1/16 INCH HORIZONTAL CRACK SOUTH FACE BEGINNING AT EAST END	3	16	16 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	33	6	0	27	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along the length of the cap, near top and bottom corners, horizontal cracks (up to 1/8 inch x 9 foot)	3	25	25 Feet
<input checked="" type="checkbox"/> 234	Exposed Rebar	(PAR) North face below beam 1, spall [13 inch x 15 inch x 1 inch deep] with exposed rusted reinforcing [section loss up to 1/16 inch]	3	2	2 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along length of North and South face, map cracks (hairline) at random	2		Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) 11 INCH X 12 INCH X 6 INCH CRACKED AND DELAMINATED AREA IN BAY 3 AND EAST OVERHANG.	1		Feet

General Comments

Bent 3**Pile 1****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 205	Exposed Rebar	(PAR) 34 INCH X UP TO 13 INCH X 1.5 INCH DEEP SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, 8 FOOT FROM BOTTOM OF CAP EAST FACE	4	1	1	Each
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	2 - UP TO 6 foot X 1/16 inch VERTICAL CRACKS EAST AND WEST FACES	3		1	Each
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	at East and West face, multiple vertical cracks [up to 8 foot x up to 1/32 inch]	2			Each
<input checked="" type="checkbox"/> 205	Delamination/Spall	(combined with other notes 2023) at Northeast corner, spall [35 inch x 13 inch x up to 1.5 inch deep] with exposed rusted reinforcing [section loss up to 1/8 inch] with adjacent delamination and associated vertical crack [42 inch x 1/16 inch]	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	
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	2 - VERTICAL CRACKS UP TO 9 FOOT X 1/16 INCH WITH ADJACENT DELAMINATION 9 FOOT X 2 FOOT ON WEST FACE	3		1	Each
<input checked="" type="checkbox"/> 205	Exposed Rebar	[PAR] at Southeast corner, spall [8.5 foot x 11 inch x 2.5 inch deep] with exposed rusted reinforcing [section loss up to 1/8 inch]	3	1	1	Each
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	all faces, multiple vertical cracks [1/32 inch x full height]	2			Each
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	(COMBINED WITH OTHER NOTES 2023) 2 - UP TO 9 FOOT X 1/4 INCH VERTICAL CRACKS WITH ADJACENT DELAMINATION 5 FOOT X 1 FOOT EAST FACE	1			Each

General Comments**Bent 3****Pile 3****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	East face, multiple vertical cracks (up to full height x 1/8 inch wide) with adjacent delamination (up to full height x 1.5 foot)	3		1	Each

Structure Number: **110112**

Inspection Date: **08/17/2023**

<input checked="" type="checkbox"/>	205	Efflorescence/Rust Staining	(PAR) 2 - VERTICAL CRACKS UP TO FULL HEIGHT X UP TO 1/8 INCH WITH RUST STAINS AND ADJACENT DELAMINATION FULL HEIGHT X 2 FOOT ON WEST FACE	3	1	1	Each
<input checked="" type="checkbox"/>	205	Cracking (RC and Other)	(COMBINED WITH OTHER NOTES 2023) 2 - UP TO 8 FOOT X 1/8 INCH VERTICAL CRACKS	1			Each

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1938
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	61
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	61
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	61
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	61
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1722
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	1938
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	62
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	62
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	62
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	62
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1722
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1938
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	62
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	62
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	62
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	62
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1722
Span 3	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing 3	Fixed Bearing	Fixed Bearing	1

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1938
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	61
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	61
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	61
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	61
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	62
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1722
Span 4	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing 4	Movable Bearing	Movable Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	33
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	45
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	55
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	33
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	45
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	55
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	33
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Span 4

Expansion Joint 3

National Bridge and NC Inspection Items

Structure Number: 110112

Inspection Date: 08/17/2023

National Bridge Inventory Items

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

Note:

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

For overall NBI coding grade, see cover sheet.

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	7752	3376
Drainage System	G, F, P, or C	F	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code		B		

Note: If NC SMU Inspection 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: 110112

Inspection Date: 08/17/2023

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	7752
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Details along both curblines, debris accumulation (up to 33 inch x full length) with vegetation growth; partially obstructing drainage

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

Item	General Comments and Misc Items	Grade		Maint Code		Qty.	0
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Details (PAR) southwest guardrail, 2nd post from end bent 1, decay (full height x full width x full depth)

northeast guardrail replaced since previous inspection

at end bent 2, slope protection, homeless debris



at end bent 2, slope protection, homeless debris



Span 1 Left Bridge Rail: [PAR] at base of rail post 8, spall [12 inch x 7 inch x up to 4 inch deep] with exposed rusted reinforcing with no loss



End Bent 1 Abutment: 16 INCH X UP TO 20 INCH PATCH WEST OVERHANG OF ABUTMENT



End Bent 1 Cap 1: at multiple locations throughout in all bays, wraparound vertical cracks [up to full height x 1/32 inch]



End Bent 1 Abutment: along the length of the abutment, at bottom flange penetrations, delaminations (up to 7 inch x 3 inch) with cracks (up to 1/16 inch)



Span 1 Deck: MAP CRACKING UP TO 1/64 INCH SOME WITH EFFLORESCENCE DECK UNDERSIDE AT RANDOM THROUGHOUT



Span 1 Beam 1: 2023 new repair, previously noted as: IMPACT DAMAGE - THE SOUTH MOST 30 FOOT DEFLECTED 1 INCH EASTWARD . SCATTERED SCRAPES WITH 1/16 INCH INDENTIONS THROUGH OUT A 7 FOOT LONG X 2 FOOT-7 INCH HIGH AREA AT 12 FOOT OUT FROM END BENT 1 (POINT OF IMPACT). THERE IS A 1 FOOT-8 INCH LONG X 1/2 INCH WIDE X 1/16 INCH DEEP SCRAPE ON THE BOTTOM FLANGE AT 12 FOOT OUT FROM END BENT 1 .



Span 1 Beam 1 - Near Bearing 1 - Protective System: surface rust/rust scale



(PAR) southwest guardrail, 2nd post from end bent 1, decay (full height x full width x full depth)



Span 1 Wearing Surface: (not found 2023) SPAN 1 WEARING SURFACE HAS SCATTERED PATCHED AREAS WITH SOME HAIRLINE CRACKS. PATCHES APPEAR TO BE SOUND. - NOT FOUND AT TIME OF INSPECTION. TDG
8/5/21



Span 1 Wearing Surface: 32 FOOT X UP TO 1/4 INCH TRANSVERSE CRACKS OVER END BENT 1 AND BENT 1 WITH VEGETATION GROWTH



Span 1 Wearing Surface: scattered throughout, multiple transverse and longitudinal cracks [up to 6 foot x up to 1/32 inch]



Span 1 Wearing Surface: near midspan, southbound lane, pothole/broken asphalt [5 inch x 11 inch x up to 1 inch deep]



along both curblines, debris accumulation (up to 33 inch x full length) with vegetation growth; partially obstructing drainage



Span 1 Left Bridge Rail: along sidewalk multiple transverse cracks [up to 1/32 inch x full width]



Span 1 Right Bridge Rail: at Southeast corner, spall [5 inch x full width x 1/2 inch deep]



Span 2 Wearing Surface: 32 FOOT X UP TO 1/4 INCH TRANSVERSE CRACKS OVER BENT 2 WITH MULTIPLE AREAS OF BROKEN ASPHALT



Span 2 Wearing Surface: at bent 2 beside white line in Southbound lane, pothole [9 inch x up to 3 inch x full depth] and by centerline pothole [3 inch diameter x full depth]



Span 2 Wearing Surface: scattered throughout, multiple transverse and longitudinal cracks [up to 4 foot x up to 1/32 inch]



Span 4 Right Bridge Rail: SPAN 4 RIGHT RAIL HAS A REPAIR AREA BETWEEN POSTS 5 AND 6.



Span 4 Left Bridge Rail: 6th post from bent 3, spall (2 inch x 6 inch x 1 inch deep) with exposed rusted rebar



End Bent 2 Cap 1: 16 FOOT X UP TO 1/16 INCH HORIZONTAL CRACK SOUTH FACE BEGINNING AT EAST END



End Bent 2 Abutment: along the length of the abutment, at bottom flange penetrations, spall/delaminations (up to 1.5 foot x 3 inch x 1 inch) with cracks (up to 1/16 inch)



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



Span 3 Beam 1: (PAR) UP TO 8 FOOT X 10 INCH X 2 INCH DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, BAY 1 OVER BENT 3



Span 3 Beam 1: at far end arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1 inch x 1/2 inch average remaining]; arrested metal loss, lower web [8 inch x 1.5 inch x 9/16 inch average remaining]



Span 4 Beam 1: at near end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1/2 inch x 9/16 inch average remaining]



Span 3 Beam 1: (PAR) 16 INCH X 10 INCH X 6 INCH DIAPHRAGM SPALL WITH EXPOSED REINFORCING WEST OVERHANG AT BENT 3



Span 3 Beam 2: at far end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1 inch x 9/16 inch average remaining]; pitting [up to 1/8 inch deep]



Span 3 Beam 2 - Far Bearing 2: corrosion with section loss (up to 1/16 inch deep) with pack rust (up to 3/8 inch)



Span 3 Beam 2: (PAR) 4 FOOT X 10 INCH X 6 INCH X 2.5 INCH DEEP DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, BAY 2 OVER BENT 3



Span 4 Beam 2: at near end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1/2 inch x 1/2 inch average remaining]; left stiffener [0.35 average remaining x full width x full height]



Bent 3 Pile 1: (PAR) 34 INCH X UP TO 13 INCH X 1.5 INCH DEEP SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, 8 FOOT FROM BOTTOM OF CAP EAST FACE



Bent 3 Pile 1: at East and West face, multiple vertical cracks [up to 8 foot x up to 1/32 inch]



Bent 3 Pile 2: 2 - VERTICAL CRACKS UP TO 9 FOOT X 1/16 INCH WITH ADJACENT DELAMINATION 9 FOOT X 2 FOOT ON WEST FACE



Bent 3 Pile 2: [PAR] at Southeast corner, spall [8.5 foot x 11 inch x 2.5 inch deep] with exposed rusted reinforcing [section loss up to 1/8 inch]



Bent 3 Pile 2: all faces, multiple vertical cracks [1/32 inch x full height]



Bent 3 Pile 3: (PAR) 2 - VERTICAL CRACKS UP TO FULL HEIGHT X UP TO 1/8 INCH WITH RUST STAINS AND ADJACENT DELAMINATION FULL HEIGHT X 2 FOOT ON WEST FACE



Bent 3 Pile 3: East face, multiple vertical cracks (up to full height x 1/8 inch wide) with adjacent delamination (up to full height x 1.5 foot)



Bent 3 Cap 1: along the length of the cap, near top and bottom corners, horizontal cracks (up to 1/8 inch x 9 foot)



Bent 3 Cap 1: along the length of the cap, near top and bottom corners, horizontal cracks (up to 1/8 inch x 9 foot)



Span 3 Beam 3: at far end arrested metal loss/pitting with corrosion reactivating, web at diaphragm [10 inch x 3 inch x 1/16 inch deep]



Span 3 Beam 3: (PAR) 5 FOOT X UP TO 12 INCH X 2.5 INCH DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, BAY 3 OVER BENT 3



Span 4 Beam 3: at near end, arrested metal loss with corrosion reactivating, web at diaphragm [10 inch x 1 inch x 9/16 inch average remaining]; lower web, pitting [10 inch x 3 inch x up to 1/16 inch deep]; left stiffener, pitting [up to 1/8 inch deep x full width x 4 inch]



Bent 3 Cap 1: (PAR) North face below beam 1, spall [13 inch x 15 inch x 1 inch deep] with exposed rusted reinforcing [section loss up to 1/16 inch]



Span 3 Beam 4: at bent 3, web adjacent to diaphragm, rust scale (10 inch)



Span 4 Beam 4: at near end, arrested metal loss with corrosion reactivating: web at diaphragm [10 inch x 1/2 inch x 9/16 inch average remaining]; left stiffener [0.30 inch average remaining x full width x full height]; lower web, pitting [up to 1/16 inch deep x 10 inch x 3 inch]



Span 3 Beam 4: (PAR) 2 FOOT X 10 INCH X 8 INCH DIAPHRAGM SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, EAST OVERHANG AT BENT 3



Span 3 Deck: SPAN 3 BOTTOM OF DECK HAS SCATTERED MAP CRACKS HAIRLINE AND TRANSVERSE CRACKS UP 1/32 INCH X FULL WIDTH



Span 3 Beam 1: underside of coverplate over right travel lane, impact scrapes with surface rust



Span 3 Beam 2: underside of coverplate over right travel lane, impact scrapes with surface rust



Span 3 Beam 3: underside of coverplate over both travel lanes, impact scrapes with surface rust



Span 3 Beam 4: (PAR) over right travel lane, impact damage with distortion (12 inch x 1 inch x 1/4 inch deep) and scrapes and surface rust



Span 3 Beam 4 - Near Bearing 4: [PAR] right and left attachment bolt sheared, masonry plate rotated



Span 3 Beam 4: at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 inch x full height)



Span 2 Beam 4: [PAR] at far end, corrosion with section loss: web below diaphragm [11 inch x 2 inch x 7/16 inch average remaining]; right stiffener [0.30 inch average remaining x full width x full height]



Span 3 Beam 3 - Near Bearing 3: [PAR] right and left attachment bolt sheared



Bent 2 Cap 1: North face below beam 3, delamination [29 inch x 3 inch] with cracks [up to 1/16 inch]



Bent 2 Cap 1: ALONG THE LENGTH OF THE CAP, SCATTERED LONGITUDINAL CRACKS UP TO 1/16 INCH



Span 3 Beam 2 - Near Bearing 2: [PAR] SPAN 3 BEAM 2 NEAR BEARING NORTHWEST CORNER HAS 5 INCH X 3 INCH X 4 INCH DEEP AREA OF BEARING LOSS. DUE TO BENT 2 CAP SPALLED AREA.



Span 3 Beam 2 - Near Bearing 2: [PAR] SPAN 3 BEAM 2 NEAR BEARING NORTHWEST CORNER HAS 5 INCH X 3 INCH X 4 INCH DEEP AREA OF BEARING LOSS. DUE TO BENT 2 CAP SPALLED AREA.



Span 3 Beam 2: at bent 2, painted over pitting with corrosion reactivating: web (up to 1/16 inch x 10 inch x full height)



Bent 2 Cap 1: (PAR) 4 FOOT X 1 FOOT X 1 FOOT X 3 INCH DEEP CORNER SPALL WITH EXPOSED REINFORCING APPROXIMATELY 25 PERCENT LOSS, NORTH FACE UNDER BEAM 2; UNDERMINING BEARING



Span 3 Near Bearing 1: [PAR] right and left attachment bolt sheared



Span 2 Beam 1: at bent 2, corrosion with section loss: web adjacent to diaphragm (1/2 inch average remaining x 10 inch x 1 inch); right stiffener (0.30 average remaining x full width x full height)



Span 2 Beam 1: at bent 2, corrosion with section loss: web adjacent to diaphragm (1/2 inch average remaining x 10 inch x 1 inch); right stiffener (0.30 average remaining x full width x full height)



Bent 2 Cap 1: [PAR] South face at East end, corner spall [27 inch x 14 inch x 12 inch x 3 inch deep] with exposed rusted reinforcing [section loss up to 1/8 inch]



Bent 2 Cap 1: (PAR) CRACKED PATCHED AREA SOUTHEAST BOTTOM CORNER WITH EFFLORESCENCE BUILD-UP



Span 2 Beam 4: (PAR) at bent 1, web adjacent to diaphragm, rust scale (10 inch); right stiffener (0.20 inch average remaining x full width x full height) with corrosion holes (up to 2 inch x 1 inch)



Bent 1 Cap 1: (PAR) MULTIPLE UP TO 8 FOOT X 2.5 FOOT CRACKED/FAILED PATCHED AREAS WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, THROUGHOUT BOTTOM AND SOUTH FACE



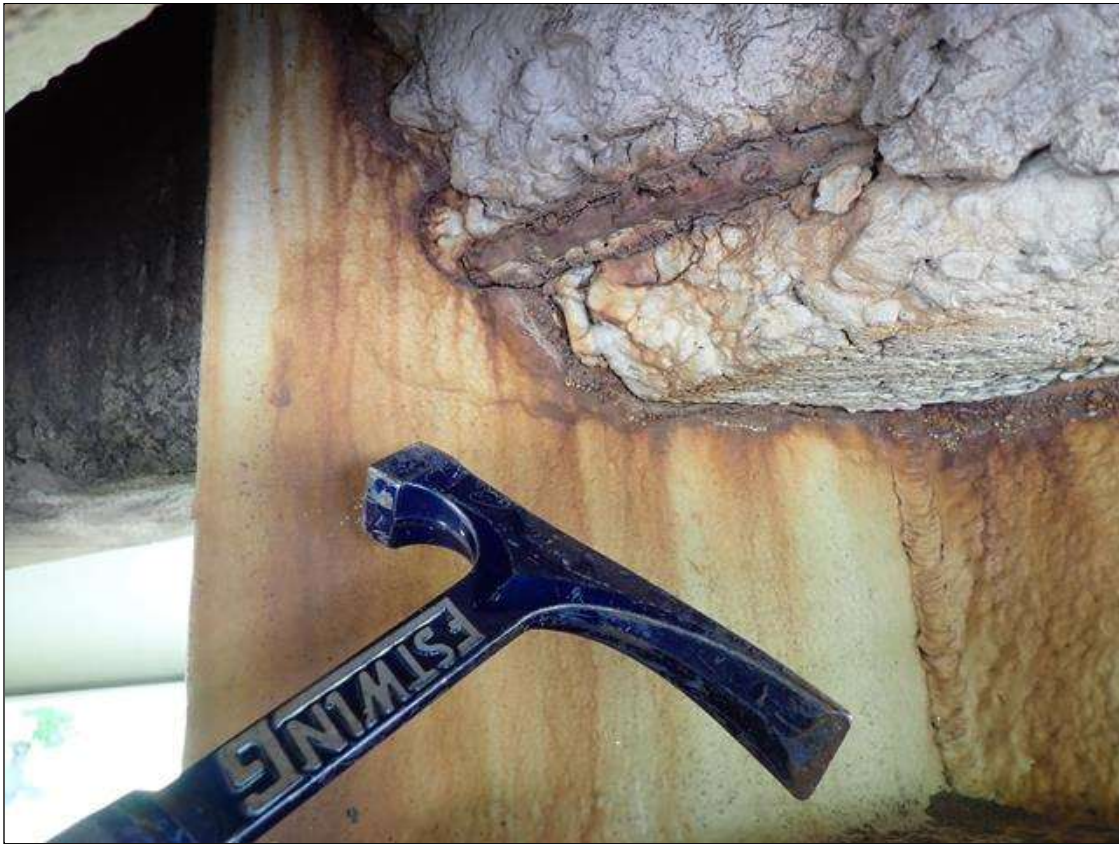
Bent 1 Cap 1: (PAR) MULTIPLE UP TO 8 FOOT X 2.5 FOOT CRACKED/FAILED PATCHED AREAS WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, THROUGHOUT BOTTOM AND SOUTH FACE



Bent 1 Cap 1: (PAR) MULTIPLE UP TO 8 FOOT X 2.5 FOOT CRACKED/FAILED PATCHED AREAS WITH EXPOSED RUSTED REBAR APPROXIMATELY 25 PERCENT LOSS, THROUGHOUT BOTTOM AND SOUTH FACE



Span 1 Beam 2: at bent 1, corrosion with section loss: web adjacent to diaphragm (1/2 inch average remaining x 10 inch x 5 inch); left stiffener (0.35 inch average remaining x full width x full height)



Span 1 Beam 2: at bent 1, corrosion with section loss: web adjacent to diaphragm (1/2 inch average remaining x 10 inch x 5 inch); left stiffener (0.35 inch average remaining x full width x full height)



Bent 1 Cap 1: MAP CRACKING AND HORIZONTAL CRACKS UP TO 1/16 INCH AT RANDOM THROUGHOUT NORTH AND SOUTH FACES



Span 2 Beam 1: (PAR) over both travel lanes, multiple vehicle impact with gouges [up to 3 inch x 1 inch x 1/2 inch deep] with surface rust



Bent 1 Pile 2: 2.5 FOOT X UP TO 1/16 INCH VERTICAL CRACK ON WEST FACE 6 INCH FROM BOTTOM OF CAP



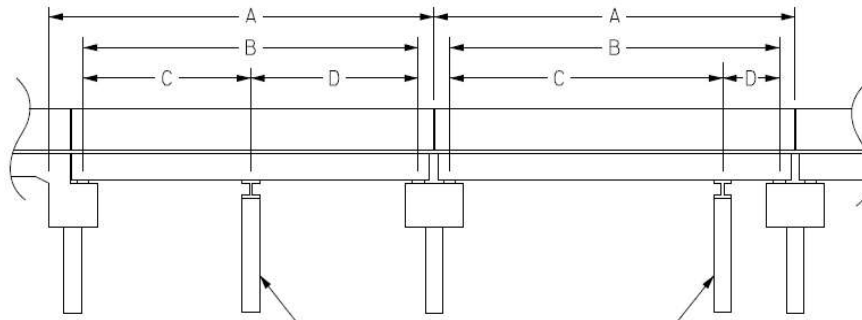
Span 2 Beam 4: underside of coverplate over right travel lane, impact scrapes with surface rust

Structure Data Worksheet

Span Profile

County: **BURKE**

Structure Number: **110112**



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	61.500	59.250			
2	61.500	60.250			
3	61.500	60.250			
4	61.500	59.250			

Structure Number: 110112

Span: 2

Route Name: I 40 E



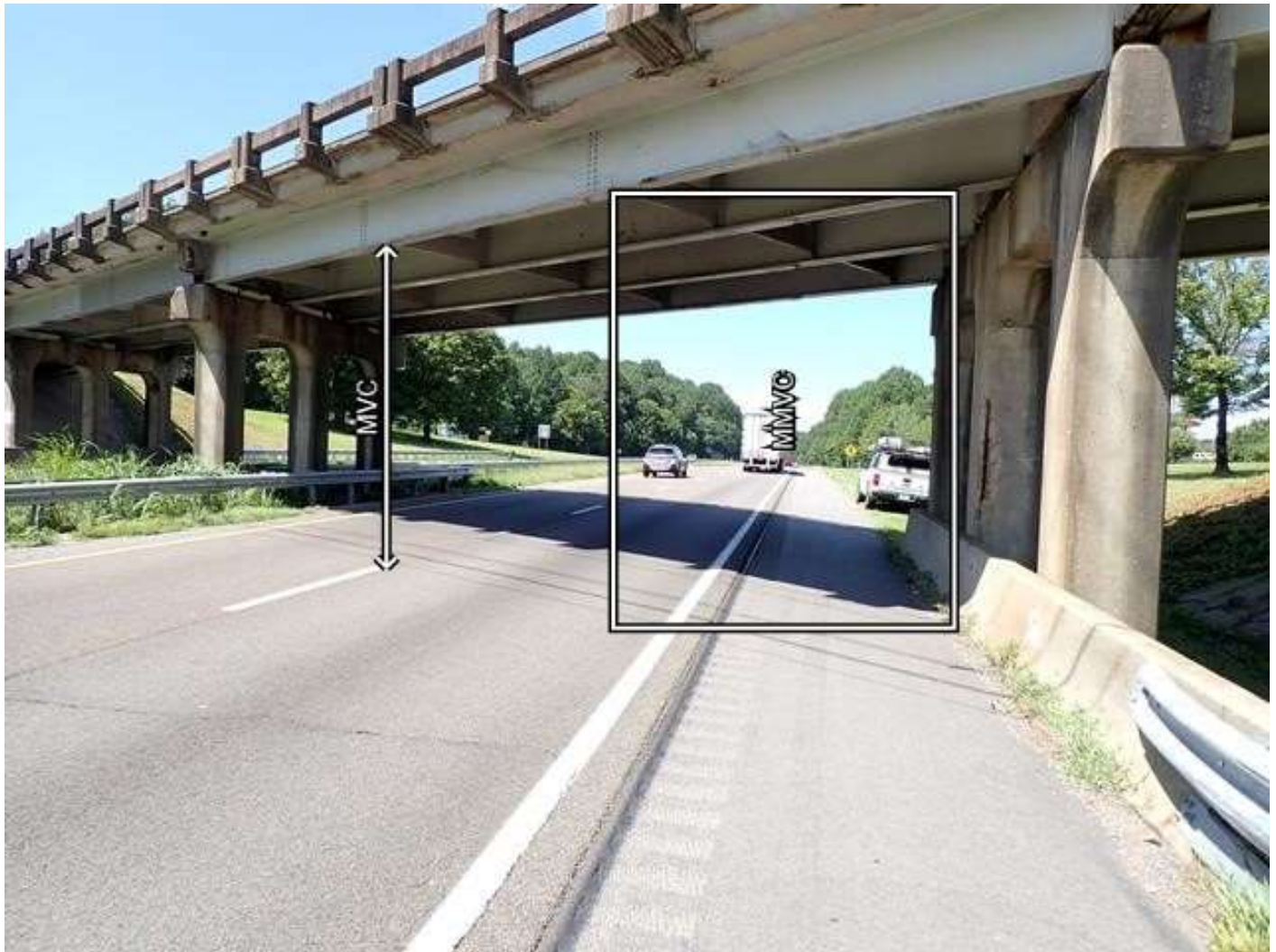
roadway under span 2, looking east

Route Number: 11000400		Route Name: I 40 E			Reference Feature: H	
Minimum Vertical Clearance 14.890 feet		Maximum Minimum Vertical Clearance 15.120 feet				
Total Horizontal Clearance 41.750 feet		Lateral Clearances: Left: 13.410 feet Right 8.810 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 99.730	Number of Lanes: 2	ADT: 20000	Year of ADT: 2017	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11 Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic				

Structure Number: 110112

Span: 3

Route Name: I 40 W



roadway under span 3, looking west

Route Number: 11000400		Route Name: I 40 W			Reference Feature: H	
Minimum Vertical Clearance 14.710 feet		Maximum Minimum Vertical Clearance 14.850 feet				
Total Horizontal Clearance 40.480 feet		Lateral Clearances: Left: 13.310 feet Right 8.650 feet				
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 99.730	Number of Lanes: 2	ADT: 20000	Year of ADT: 2017	Percentage of Trucks: 16		
<input checked="" type="checkbox"/> National Highway System			<input type="checkbox"/> STRAHNET Highway Designator			
Functional Classification 11 Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic				

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	7ft Wide	2ft Paved	5ft Unpaved
Right Shoulder	8.5ft Wide	2.5ft Paved	6ft Unpaved
Left Guardrail			
Right Guardrail			

measurements taken approximately 400 feet from end bent 1

Title
APPROACH ROADWAY SKETCH

Description
LOOKING NORTH

Structure No: 110112

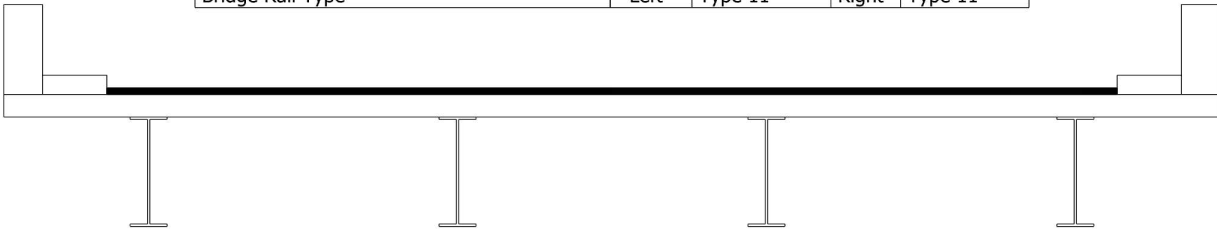
Drawn By: HABonilla

Date: 8/17/2023

Filename: S000906000217.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	31.5ft	Between Rails	31.333ft		
Clear Roadway	28ft	Wearing Surface	2in		
Median Width		Median Height			
Curb Height		Left	7.5in	Right	7.5in
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	2.333ft	Right	2.333ft
Bridge Rail Type		Left	Type 11	Right	Type 11



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	7in	Left Overhang	3.75ft
Top of Rail to Bottom of Beam (Avg)	5.75ft	Right Overhang	3.75ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	11.5in	34in	3.75ft	Left Edge of Deck
2	Plate Girder	11.5in	34in	8ft	Beam 1
3	Plate Girder	11.5in	34in	8ft	Beam 2
4	Plate Girder	11.5in	34in	8ft	Beam 3

BEAM DIMENSIONS: between flanges 31-3/4"; flange width 11.5" x 3/4" thick; web 5/8" thick
COVERPLATE DIMENSIONS: 10" X 3/4"

Title
TYPICAL SECTION SKETCH

Description
LOOKING NORTH

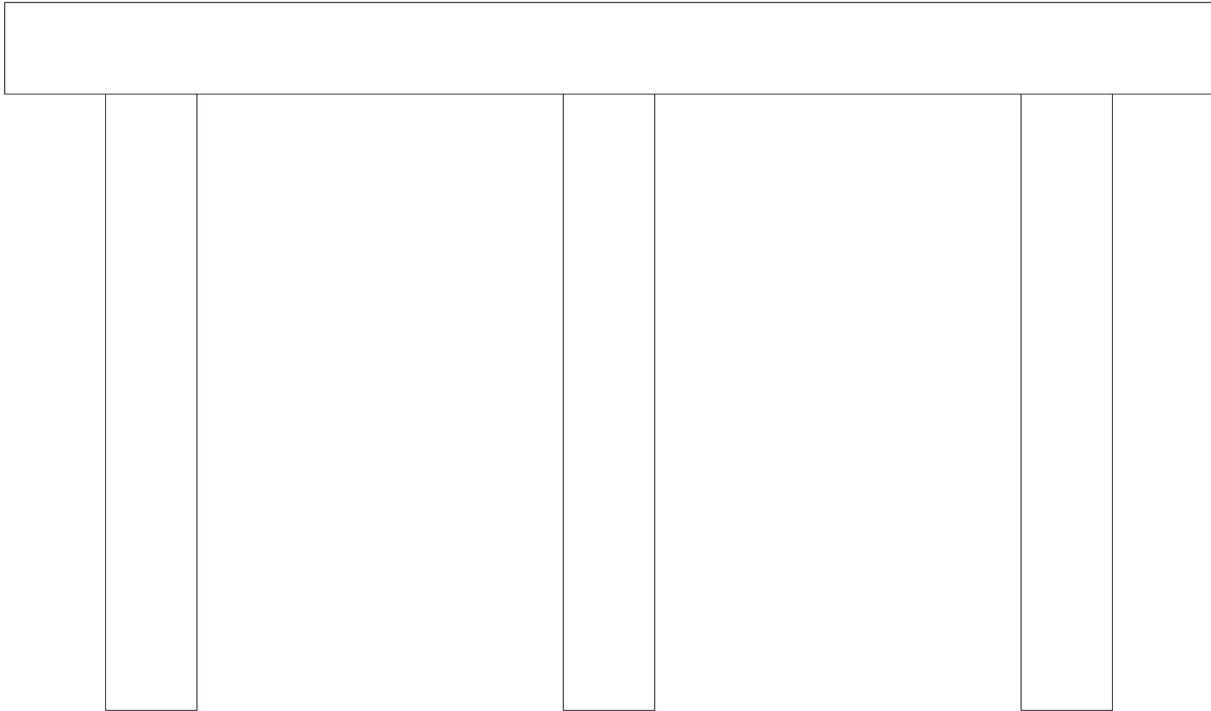
Structure No: 110112

Drawn By: HABonilla

Date: 8/17/2023

Filename: S000906000218.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	33ft	30in	30in	1ft	2.5ft
Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4ft	Left End of Bent	30in	30in	16ft
2	Pile 2	Reinforced Concrete Column	12.5ft	Pile 1	30in	30in	16ft
3	Pile 3	Reinforced Concrete Column	12.5ft	Pile 2	30in	30in	16ft

Title
BENT SKETCH

Description
LOOKING NORTH

Structure No: 110112

Drawn By: HABonilla

Date: 8/17/2023

Filename: S000906000219.wes



end bent 2 and slope protection



northeast wingwall



northwest wingwall



intermediate diaphragm



end bearing assembly



bent 3



northeast guardrail termination



northeast guardrail



northeast guardrail attachment



end bent 2 asphalt



northwest guardrail attachment



northwest guardrail transition



northwest guardrail termination



north approach looking south



northwest guardrail



bent 3 asphalt



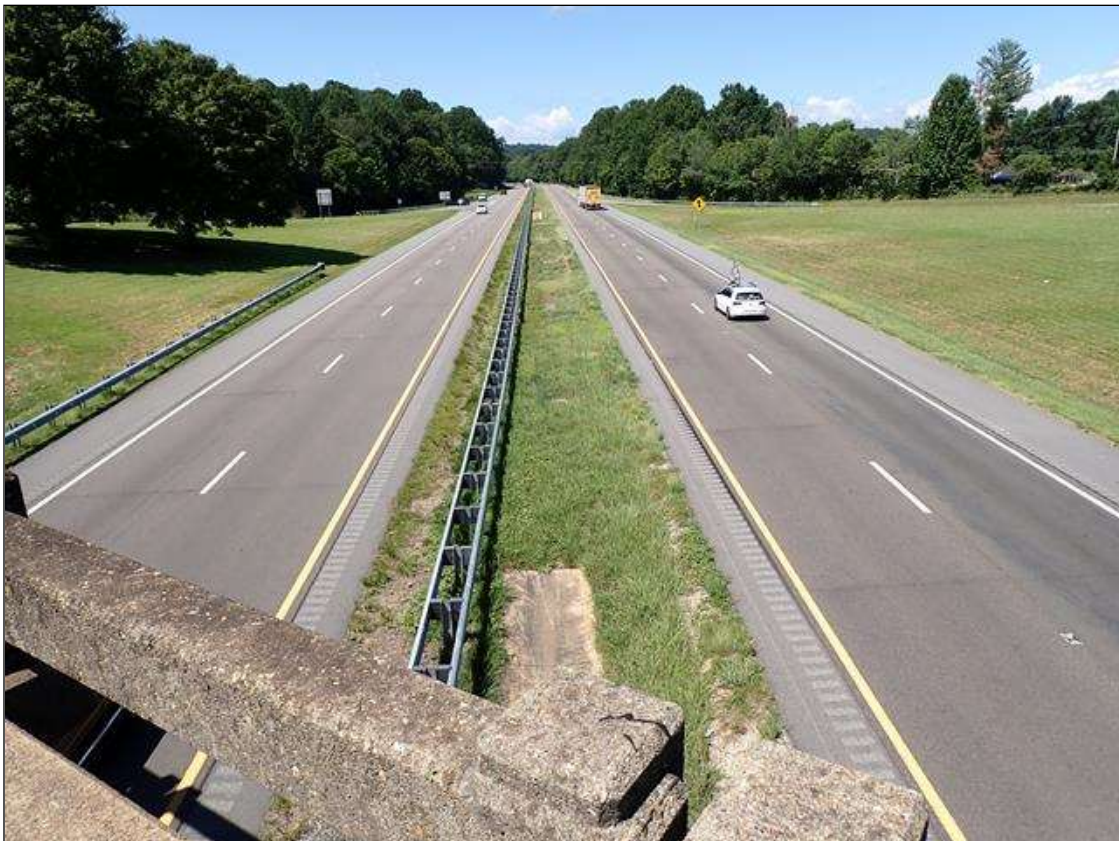
north approach looking north



roadway looking east



bent 2 asphalt



roadway looking west



bent 1 asphalt



southwest guardrail attachment



southwest guardrail



end bent 1 asphalt



southwest guardrail termination



southeast guardrail termination



southeast guardrail transition



asphalt wearing surface



left bridge rail



southeast guardrail attachment



right bridge rail



south approach looking south



south approach looking north



southwest wingwall



end bent 1 and slope protection



southeast wingwall



bent 1



superstructure underside



bent 2



east profile looking west



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



west profile looking east



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



ladder used



interior bearing assembly



beams over bent



typical coverplate termination