



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: prompt action request; sketches revised; span 2 and 3 total horizontal clearances revised

# Structure Safety Report

## Routine Element Inspection - Contract

STRUCTURE NUMBER: 110143      SAP STRUCTURE NO: 0120143      FHWA STRUCTURE NO: 00000000230143

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

FACILITY CARRIED: SR1708      MILE POST: \_\_\_\_\_

LOCATION: .1 MI.N.JCT.SR1822

FEATURE INTERSECTED: I-40

LATITUDE: 35° 43' 26.64"      LONGITUDE: 81° 38' 40.58"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/TIMBER PILES;INT.BTS:RC POST&BEAM

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

FRACTURE CRITICAL     TEMPORARY SHORING     SCOUR CRITICAL     SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding)    DECK 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> <b>WEIGHT LIMIT</b>	<u>0</u>
<u>NO</u> <b>DELINEATORS</b>	<u>0</u>
<u>NO</u> <b>NARROW BRIDGE</b>	<u>0</u>
<u>NO</u> <b>ONE LANE BRIDGE</b>	<u>0</u>
<u>NO</u> <b>LOW CLEARANCE</b>	<u>0</u>

**DIRECTION OF INSPECTION**      S-N

**DIRECTION MATCHES PLANS**      \_\_\_\_\_

south approach looking north

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

11/17/2023

**IDENTIFICATION**

(1) STATE NAME NORTH CAROLINA BRIDGE 110143  
 (8) STRUCTURE NUMBER (FEDERAL) 0230143  
 (5) INVENTORY ROUTE (ON/UNDER) ON 31017080  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13  
 (3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE 44400  
 (6) FEATURE INTERSECTED I-40  
 (7) FACILITY CARRIED SR1708  
 (9) LOCATION .1 MI.N.JCT.SR1822  
 (11) MILEPOINT 0.0  
 (12) BASE HIGHWAY NETWORK 0  
 (13) LRS INVENTORY ROUTE & SUBROUTE 0  
 (16) LATITUDE 35° 43' 26.64" (17) LONGITUDE 81° 38' 40.58"  
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED  
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 68.03

STATUS =

**CLASSIFICATION** **CODE**

(112) NBIS BRIDGE SYSTEM Y  
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0  
 (26) FUNCTIONAL CLASS Urban Local 19  
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0  
 (101) PARALLEL STRUCTURE 0  
 (102) DIRECTION OF TRAFFIC 2-way traffic 2  
 (103) TEMPORARY STRUCTURE  
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0  
 (20) TOLL On Free Road 3  
 (21) MAINT - 01  
 (22) OWNER - 01  
 (37) HISTORICAL SIGNIFICANCE - 5

**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-28 50  
 (65) INVENTORY RATING METHOD - 1  
 (66) INVENTORY RATING HS-17 30  
 (70) BRIDGE POSTING No Posting Required 5  
 (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION Open, no restriction A

**AGE AND SERVICE**

(27) YEAR BUILT 1955  
 (106) YEAR RECONSTRUCTED 0  
 (42) TYPE OF SERVICE ON - Highway  
 OFF - Highway CODE 11  
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 8  
 (29) AVERAGE DAILY TRAFFIC 1600  
 (30) YEAR OF ADT 2017 (109) TRUCK ADT PCT 7  
 (19) BYPASS OR DETOUR LENGTH 3.0

**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 54.0  
 (49) STRUCTURE LENGTH 204.0  
 (50) CURB OR SIDEWALK: LEFT 1.7 RIGHT 1.7  
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 26.0  
 (52) DECK WIDTH OUT TO OUT 31.5  
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 22.0  
 (33) BRIDGE MEDIAN CODE 6  
 (34) SKEW 23 (35) STRUCTURE FLARED 0111  
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9  
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 0.0  
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9  
 (54) MIN VERT UNDERCLEAR: REFERENCE H 15.1  
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE H 9.5  
 (56) MIN LAT UNDERCLEARANCE LT: 13.3

**PROPOSED IMPROVEMENTS**

(75) TYPE OF WORK CODE  
 (76) LENGTH OF STRUCTURE IMPROVEMENT  
 (94) BRIDGE IMPROVEMENT COST  
 (95) ROADWAY IMPROVEMENT COST  
 (96) TOTAL PROJECT COST  
 (97) YEAR OF IMPROVEMENT COST ESTIMATE  
 (114) FUTURE ADT 3,200 YEAR OF FUTURE ADT 2040

**NAVIGATION DATA**

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

**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	Righth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EBL	11000400	16.7	105.9	1	10040	11	2	22000	2015	41.3	H	16.2	9.6	13.2	3		1	<input type="checkbox"/>	<input type="checkbox"/>
3	I 40 WBL	11000400	15.3	105.9	1	10040	11	2	22000	2015	41.3	H	15.1	9.5	13.3	3		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 50.000

Skew 113.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1475 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	216 Feet	Legacy Non Lead Primer System with various Topcoats	2148
1	Asphalt Wearing Surface	Wearing Surface	1300 Square Feet		
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	100 Feet		

Span Number 2

Span Length 55.000

Skew 113.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	110 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1430 Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1623 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	220 Feet	Legacy Non Lead Primer System with various Topcoats	2172
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Standard Joint	Pourable Joint Seal	29 Feet		

Span Number 3

Span Length 55.000

Skew 113.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1623 Square Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
4	Plate Girder	Steel Open Girder/Beam	220 Feet	Legacy Non Lead Primer System with various Topcoats	2180
1	Standard Joint	Pourable Joint Seal	29 Feet		

## Superstructure Build Details

4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
2	Concrete Railing	Reinforced Concrete Bridge Railing	110 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1430 Square Feet		

Span Number 4

Span Length 44.000

Skew 113.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Movable Bearing	Movable Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Asphalt Wearing Surface	Wearing Surface	1144 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	88 Feet		
4	Fixed Bearing	Fixed Bearing	4 Each	Legacy Non Lead Primer System with various Topcoats	4
1	Standard Joint	Pourable Joint Seal	29 Feet		
4	Plate Girder	Steel Open Girder/Beam	172 Feet	Legacy Non Lead Primer System with various Topcoats	1708
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1298 Square Feet		

# Structure Element Scoring

Structure Number: 110143

Inspection Date 8/24/2023

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	6,019	4,884	1,110	25	0
107		Steel Open Girder/Beam	Beam	828	798	8	22	0
515	107	Steel Protective Coating	Beam	8,208	8,178	0	6	24
205		Reinforced Concrete Column	Piles and Columns	6	0	2	4	0
215		Reinforced Concrete Abutment	Abutments	70	66	0	4	0
220		Reinforced Concrete Pile Cap/Footing	Footing	24	24	0	0	0
228		Timber Pile	Piles and Columns	17	17	0	0	0
234		Reinforced Concrete Pier Cap	Caps	152	89	52	10	1
301		Pourable Joint Seal	Expansion Joints	87	87	0	0	0
311		Movable Bearing	Bearing Device	16	0	16	0	0
515	311	Steel Protective Coating	Bearing Device	16	0	1	8	7
313		Fixed Bearing	Bearing Device	16	4	11	1	0
515	313	Steel Protective Coating	Bearing Device	16	4	0	8	4
331		Reinforced Concrete Bridge Railing	Bridge Rail	408	408	0	0	0
510		Wearing Surface	Wearing Surfaces	5,304	5,178	0	126	0

# Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **110143**

Inspection Date: **08/24/2023**

<b>MMS Code</b>	<b>Element Name</b>	<b>Defect Name</b>	<b>Recommended Quantity</b>
3326	Reinforced Concrete Deck	Delamination/Spall	25 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	1110 Square Feet
3314	Steel Open Girder/Beam	Corrosion	22 Feet
3314	Steel Open Girder/Beam	Connection	1 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	3 Each
3348	Reinforced Concrete Column	Delamination/Spall	4 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	4 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	7 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	8 Feet
3334	Fixed Bearing	Corrosion	1 Each
2816	Wearing Surface	Crack (Wearing Surface)	126 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	58 Square Feet

## Element Structure Maintenance Quantities

Structure Number: 110143

Inspection Date 08/24/2023

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	23	828	0.000	22.000	8.000	798.000
Beam	3342	Clean and Paint Steel	30	8208	24.000	6.000	0.000	8178.000
Bearing Device	3334	Bridge Bearing	0	16	0.000	0.000	16.000	0.000
Bearing Device	3334	Bridge Bearing	1	16	0.000	1.000	11.000	4.000
Bearing Device	3342	Clean and Paint Steel	16	16	7.000	8.000	1.000	0.000
Bearing Device	3342	Clean and Paint Steel	12	16	4.000	8.000	0.000	4.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	408	0.000	0.000	0.000	408.000
Deck	3326	Maintenance of Concrete Deck	1135	6019	0.000	25.000	1110.000	4884.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	87	0.000	0.000	0.000	87.000
Wearing Surfaces	2816	Asphalt Surface Repair	126	5304	0.000	126.000	0.000	5178.000
Abutments	3350	Maintenance of Concrete Wings and Wall	4	70	0.000	4.000	0.000	66.000
Caps	3348	Maintenance of Concrete Substructure	15	152	1.000	10.000	52.000	89.000
Footing	3348	Maintenance of Concrete Substructure	0	24	0.000	0.000	0.000	24.000
Piles and Columns	3344	Maintenance To Timber Substructure	0	17	0.000	0.000	0.000	17.000
Piles and Columns	3348	Maintenance of Concrete Substructure	7	6	0.000	4.000	2.000	0.000

# Priority Actions Request

Structure Number 110143

## Span1

Priority Level	Defect Type	Quantity	Defect Description
3326	Deck	Reinforced Concrete Deck	
2	Delamination/Spall	2	Span 1 Deck: (PAR) 1 FOOT X UP TO 1 FOOT X 1 INCH DEEP SPALL/DELAMINATION WITH EXPOSED REINFORCING WEST OVERHANG 15 FOOT FROM BENT 1
2	Delamination/Spall	2	Span 1 Deck: (PAR) TWO [2] UP TO 1 FOOT X UP TO 4 INCH X 1 INCH DEEP SPALLS WITH EXPOSED REINFORCING EAST OVERHANG NEAR MIDSPAN
3314	Beam 1	Plate Girder	
2	Connection	0	Span 1 Beam 1: (PAR) 2 FOOT X UP TO 1 FOOT X 2 INCH DEEP DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS WEST OVERHANG AT BENT 1.

## Span2

Priority Level	Defect Type	Quantity	Defect Description
3326	Deck	Reinforced Concrete Deck	
2	Delamination/Spall	3	Span 2 Deck: (PAR) along underside of left overhang, two [2] spalls [up to 18 inch x 12 inch x 1 inch deep] with exposed rusted reinforcing [no loss]

## Span3

Priority Level	Defect Type	Quantity	Defect Description
3326	Deck	Reinforced Concrete Deck	
2	Delamination/Spall	5	Span 3 Deck: (PAR) MULTIPLE UP TO 1 FOOT X 1 FOOT X 1 INCH DEEP SPALLS/DELAMINATIONS WITH EXPOSED REBAR AT RANDOM THROUGHOUT EAST OVERHANG; SOME DELAMINATIONS OVER TRAVEL LANE
2	Delamination/Spall	13	Span 3 Deck: (PAR) MULTIPLE UP TO 2 FOOT X 1 FOOT X 1 DEEP SPALL/DELAMINATION WITH EXPOSED REBAR AT RANDOM THROUGHOUT WEST OVERHANG; SOME DELAMINATION OVER TRAVEL LANES
3314	Beam 1	Plate Girder	
2	Connection	1	Span 3 Beam 1: (PAR) at bent 3 left overhang end diaphragm, spall/delamination [full height x up to 12 inch x up to 1.5 inch deep] with exposed rusted reinforcing [up to 1/8 inch section loss]

## Bent 2

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

# Priority Actions Request

Structure Number 110143

3348 Cap 1 Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	6	End Bent 2 Cap 1: (PAR) 6 FOOT X UP TO 16 INCH X 10 INCH X 3 INCH DEEP SPALL WITH EXPOSED PRIMARY REBAR WITH SECTION LOSS [UP TO 1/16 INCH] UNDER BEAM 1

## Bent 3

3348 Cap 1 Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 3 Cap 1: (PAR) 12 INCH X 24 INCH X 2 INCH DEEP SPALL WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS SOUTHEAST CORNER

## Approach Guardrail and Barriers

3120 Approach Guardrail and Barriers Approach Guardrail and Barriers

Priority Level	Defect Type	Quantity	Defect Description
2		8	(PAR) along all guardrails, timber spacers, loose/twisted
2		7	(PAR) northeast guardrail 18 foot from termination, impact damage (7 foot)
2		6	(PAR) northeast guardrail 4 foot from attachment, impact damage (6 foot)
2		2	(PAR) northeast guardrail, 3rd and 7th timber posts from end bent 2, timber spacers, missing
2		1	(PAR) northwest guardrail attachment, improper lap
2		1	(PAR) northwest guardrail termination, impact damage
2		3	(PAR) northwest guardrail, 1st, 7th and 8th timber posts from end bent 2, timber spacers, missing
2		1	(PAR) southeast guardrail attachment, improper lap

## Element Condition and Maintenance Data

Structure Number: 110143

Inspection Date: 08/24/2023

### Span 1 Deck Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,475	1,071	400	4	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) [2] UP TO 1 FOOT X UP TO 4 INCH X 1 INCH DEEP SPALLS WITH EXPOSED REINFORCING EAST OVERHANG NEAR MIDSPAN	3	2	2	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) 1 FOOT X UP TO 1 FOOT X 1 INCH DEEP SPALL/DELAMINATION WITH EXPOSED REINFORCING WEST OVERHANG 15 FOOT FROM BENT 1	3	2	2	Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of all bays, multiple transverse cracks [up to 8 foot x 1/32 inch] and map cracks (hairline) at random	2	400	400	Square Feet

**General Comments**

### Span 1 Beam 1 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	54	53	0	1	0	Feet
515	Steel Protective Coating	537	536	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 107	Connection	(PAR) 2 FOOT X UP TO 1 FOOT X 2 INCH DEEP DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS WEST OVERHANG AT BENT 1.	3			Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 1, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch 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 1 Beam 2 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	54	53	0	1	0	Feet
515	Steel Protective Coating	537	536	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 end diaphragm (9/16 inch average remaining x 8 inch x 1 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 1****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	54	53	0	1	0 Feet
515	Steel Protective Coating	537	536	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 end diaphragm (9/16 inch average remaining x 10 inch x 1 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 1****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	54	53	1	0	0 Feet
515	Steel Protective Coating	537	536	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 end 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****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 1 Far Bearing 2**  
**Movable Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	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 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	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	2	1		Each
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet

**General Comments**

**Span 1 Far Bearing 4**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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 Wearing Surface**  
**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,300	1,288	0	12	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	over end bent 1, right travel lane, transverse crack (1/16 inch x 12 foot)	3	12	12	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	1,623	1,460	160	3	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) along underside of left overhang, two [2] spalls [up to 18 inch x 12 inch x 1 inch deep] with exposed rusted reinforcing [no loss]	3	3	3 Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of all bays, multiple transverse cracks [up to 8 foot x 1/32 inch] and map cracks (hairline) at random	2	160	160 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	55	53	0	2	0 Feet
515	Steel Protective Coating	543	541	0	0	2 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 end diaphragm (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 2, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 10 inch x 3 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2 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	55	53	0	2	0 Feet
515	Steel Protective Coating	543	541	0	0	2 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 end diaphragm (9/16 inch average remaining x 10 inch x 4 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 2, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 4 inch x 1 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2 Square Feet

General Comments

**Span 2** **Beam 3**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	55	53	0	2	0 Feet
515	Steel Protective Coating	543	541	0	0	2 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 end diaphragm (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 2, active corrosion with section loss, web at diaphragm [9 inch x 1 inch x average remaining 1/2 inch]	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2 Square Feet

**General Comments**

**Span 2** **Beam 4**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	55	53	1	1	0 Feet
515	Steel Protective Coating	543	541	0	0	2 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 end diaphragm (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 1, web adjacent to end diaphragm, rust scale (10 inch x 15 inch)	2	1	Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	rust scale/corrosion with section loss	4	2	2 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	29	29	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 301	Seal Adhesion	new asphalt wearing surface at time of inspection - 8/25/21	1		Feet

**General Comments**

**Span 2 Near Bearing 1**  
**Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<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 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	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 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

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<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet
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**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"/>	<b>313</b>	Corrosion	surface rust/rust scale	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1 Square Feet

**General Comments**

**Span 2 Far Bearing 3**

**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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"/>	<b>311</b>	Corrosion	surface rust/rust scale	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1 Square Feet

**General Comments**

**Span 2 Near Bearing 4**

**Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>313</b>	Corrosion	surface rust	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet

**General Comments**

**Span 2****Far Bearing 4****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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****Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,430	1,402	0	28	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	over bent 1, transverse crack (up to 1/16 inch x 28 foot)	3	28	28	Square Feet
<input type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	new asphalt wearing surface at time of inspection - 8/25/21	1			Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,623	1,455	150	18	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) MULTIPLE UP TO 1 FOOT X 1 FOOT X 1 INCH DEEP SPALLS/DELAMINATIONS WITH EXPOSED REBAR AT RANDOM THROUGHOUT EAST OVERHANG; SOME DELAMINATIONS OVER TRAVEL LANE	3	5	5	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(PAR) MULTIPLE UP TO 2 FOOT X 1 FOOT X 1 DEEP SPALL/DELAMINATION WITH EXPOSED REBAR AT RANDOM THROUGHOUT WEST OVERHANG; SOME DELAMINATION OVER TRAVEL LANES	3	13	13	Square Feet
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of all bays, multiple transverse cracks [up to 8 foot x 1/32 inch] and map cracks (hairline) at random	2	150	150	Square Feet
<input checked="" type="checkbox"/> 12	Delamination/Spall	(combined with other notes 2023) along underside of West overhang, two [2] delaminations [up to 13 inch x 6 inch]	1			Square Feet
<input type="checkbox"/> 12	Delamination/Spall	DUPLICATE DEFECT 8-8-2019	1			Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	55	53	0	2	0 Feet
515	Steel Protective Coating	545	543	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Connection	(PAR) at bent 3 left overhang end diaphragm, spall/delamination [full height x up to 12 inch x up to 1.5 inch deep] with exposed rusted reinforcing [up to 1/8 inch section loss]	3		1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 2, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 10 inch x 3 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 9 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2 Square Feet

**General Comments**

**Span 3** **Beam 2**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	55	53	0	2	0 Feet
515	Steel Protective Coating	545	543	0	0	2 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 end diaphragm (9/16 inch average remaining x 10 inch x 4 inch); bottom flange (0.80 inch average remaining x 1 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	at bent 3, corrosion with pitting: web adjacent to end diaphragm (1/16 inch deep x 10 inch x 9 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2 Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	55	52	1	2	0 Feet
515	Steel Protective Coating	545	543	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at bent 2, active corrosion with section loss, web at diaphragm [10 inch x 1 inch x average remaining 9/16 inch]	3	1	1 Feet

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<input checked="" type="checkbox"/>	<b>107</b>	Corrosion	at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 6 inch)	3	1	1	Feet
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet

**General Comments**

**Span 3 Beam 4 Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	55	53	0	2	0	Feet
515	Steel Protective Coating	545	542	0	1	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>107</b>	Corrosion				at bent 2, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 10 inch x 1 inch)
<input checked="" type="checkbox"/>	<b>107</b>	Corrosion	3	1	1	Feet
<input checked="" type="checkbox"/>	<b>107</b>	Corrosion				at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 23 inch)
<input checked="" type="checkbox"/>	<b>107</b>	Damage	2			Feet
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	4	2	2	Square Feet
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	3	1	1	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	29	29	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>301</b>	Seal Adhesion	1			Feet
		new asphalt wearing surface at time of inspection - 8/25/21				

**General Comments**

**Span 3 Near Bearing 1 Fixed Bearing**

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

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

**General Comments**

**Span 3 Far Bearing 1**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	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 3 Near Bearing 2**  
**Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<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 3 Far Bearing 2**  
**Movable Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	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 3 Near Bearing 3**  
**Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<input checked="" type="checkbox"/>	<b>313</b>	Corrosion	rust scale	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	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	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"/>	<b>311</b>	Corrosion	surface rust	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet

**General Comments**

**Span 3 Near Bearing 4**

**Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>313</b>	Corrosion	surface rust	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet

**General Comments**

**Span 3 Far Bearing 4**

**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	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"/>	<b>311</b>	Corrosion	surface rust/rust scale	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	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	1,430	1,402	0	28	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 510	Crack (Wearing Surface)	over bent 2, transverse crack (1/16 inch x 28 foot)	3	28	28 Square Feet
<input type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	new asphalt wearing surface at time of inspection - 8/25/21	1		Square Feet

**General Comments****Span 4 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,298	898	400	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 12	Cracking (RC and Other)	throughout underside of all bays, multiple transverse cracks [up to 8 foot x 1/32 inch] and map cracks (hairline) at random	2	400	400 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	43	37	5	1	0 Feet
515	Steel Protective Coating	427	421	0	5	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 107	Corrosion	at bent 3, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 10 inch x 1 inch)	3	1	1 Feet
<input checked="" type="checkbox"/> 107	Corrosion	West top flange at midspan, active surface corrosion [no loss]	2	5	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)	top flange at midspan, surface corrosion present	3	5	5 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	43	42	0	1	0 Feet
515	Steel Protective Coating	427	426	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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<input checked="" type="checkbox"/>	<b>107</b>	Corrosion	at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 11 inch x 3 inch)	3	1	1	Feet
<input checked="" type="checkbox"/>	<b>515</b>	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	43	42	0	1	0	Feet
515	Steel Protective Coating	427	426	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>107</b>	Corrosion				at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 1 inch)
			3	1	1	Feet
<input checked="" type="checkbox"/>	<b>515</b>	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	43	42	0	1	0	Feet
515	Steel Protective Coating	427	426	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>107</b>	Corrosion				at bent 3, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 10 inch x 1 inch)
			3	1	1	Feet
<input checked="" type="checkbox"/>	<b>515</b>	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	29	29	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>301</b>	Seal Adhesion				new asphalt wearing surface at time of inspection - 8/25/21
			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	44	44	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 331	Patched Area	MOVED TO General Comments and Misc. Items:	1		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	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 4 Far Bearing 1**  
**Fixed Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 313	Corrosion	painted over section loss (up to 1/8 inch deep) with corrosion reactivating	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 4 Near Bearing 2**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	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 4 Far Bearing 2**  
**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	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 4 Near Bearing 3**  
**Movable Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 311	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 Far Bearing 3**  
**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	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 4 Near Bearing 4**  
**Movable Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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Structure Number: **110143**

Inspection Date: **08/24/2023**

<input checked="" type="checkbox"/>	<b>311</b>	Corrosion	SURFACE RUST/RUST SCALE	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	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"/>	<b>313</b>	Corrosion	surface rust	2	1	Each
<input checked="" type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet

**General Comments**

**Span 4 Wearing Surface**

**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,144	1,086	0	58	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>510</b>	Crack (Wearing Surface)	over bent 3 and end bent 2, transverse cracks (up to 1/16 inch x 28 foot)	3	58	58 Square Feet
<input type="checkbox"/>	<b>510</b>	Crack (Wearing Surface)	new asphalt wearing surface at time of inspection - 8/25/21	1		Square Feet
<input type="checkbox"/>	<b>510</b>	Patched Area/Pothole (Wearing Surface)	new asphalt wearing surface at time of inspection - 8/25/21	1		Square Feet

**General Comments**

**End Bent 1 Abutment**

**Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	35	31	0	4	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>215</b>	Delamination/Spall	at all beam penetrations, multiple delaminations [up to 9 inch x 2 inch] with cracks (up to 1/4 inch)	3	4	4 Feet

**General Comments**

**End Bent 1****Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	34	26	8	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along length, multiple vertical cracks [up to full height x 1/32 inch]	2	8	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	28	7	18	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Delamination/Spall	BOTTOM FACE OF CAP RIGHT SIDE OF COLUMN 1 HAS A SURFACE SPALL AREA 3 INCH WIDE X 10 INCH LONG X 1/2 INCH DEEP WITH REBAR EXPOSED.	3	1	1 Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	South face at West end, spall [15 inch x 3 inch x 1 inch deep] with exposed rusted reinforcing [no loss] and adjacent delamination at underside [1 foot x full width]	3	2	2 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along the length of the cap, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline) at random	2	8	Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	BENT 1 SOUTH FACE OF CAP HAS A HORIZONTAL CRACK UP TO 1/32 INCH X 3 FOOT ALONG TOP EDGE BETWEEN BEAMS 2 AND BEAMS 3.	2	6	Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	6 INCH DIAMETER X 1/2 INCH DEEP SPALL WITH EXPOSED REINFORCING SOUTH FACE OF CAP BELOW BEAM 2	2	1	1 Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	BENT 1 SOUTH FACE OF CAP BETWEEN BEAM 1 AND BEAM 2 CRACKED AND DELAMINATED AREA TOP FACE OF CAP 11 INCH X 31 INCH	2	3	3 Feet

**General Comments****Bent 1****Pile 1****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	UP TO 7 FOOT X UP TO 1/16 INCH VERTICAL CRACKS WEST AND EAST FACES	3	1	1 Each
<input checked="" type="checkbox"/> 205	Delamination/Spall	6 INCH X 6 INCH X 1 INCH DEEP CORNER SPALL NORTHWEST CORNER 5 FOOT FROM 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)	UP TO 3 FOOT X 1/16 INCH VERTICAL CRACKS ALL FACES NEAR BOTTOM OF CAP	3	1	1 Each
<b>General Comments</b>					

**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	28	20	8	0	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, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline) at random	2	8	Feet
<b>General Comments</b>					

**Bent 2 Pile 1****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	FULL HEIGHT X UP TO 1/32 INCH VERTICAL CRACKS WEST AND NORTH FACES BEGINNING AT BOTTOM OF CAP	2	1	Each
<b>General Comments</b>					

**Bent 2 Pile 2****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Delamination/Spall	South face starting at ground line, vertical crack (1/32 inch x full height); 2 foot from ground, spall (8 inch x 5 inch x 1/2 inch deep) with exposed rusted rebar	3	1	1 Each
<input checked="" type="checkbox"/> 205	Delamination/Spall	West face mid height, delamination [6 foot x 18 inch] with cracks [up to 1/32 inch]	2		1 Each
<b>General Comments</b>					

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	34	18	10	6	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Exposed Rebar	(PAR) 6 FOOT X UP TO 16 INCH X 10 INCH X 3 INCH DEEP SPALL WITH EXPOSED PRIMARY REBAR WITH SECTION LOSS [UP TO 1/16 INCH] UNDER BEAM 1	3	6	6 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along length, multiple vertical cracks [up to full height x 1/64 inch] at random	2	10	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	28	18	8	1	1 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 234	Exposed Rebar	(PAR) 12 INCH X 24 INCH X 2 INCH DEEP SPALL WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS SOUTHEAST CORNER	4	1	1 Feet
<input checked="" type="checkbox"/> 234	Delamination/Spall	NORTH FACE OF CAP UNDER BEAM 1 HAS A 9 INCH X 11 INCH X 2 INCH DEEP SPALL AT TOP OF CAP.	3	1	1 Feet
<input checked="" type="checkbox"/> 234	Cracking (RC and Other)	along the length of the cap, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline) at random	2	8	Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	at East face, hairline map cracking at random	2		Each
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	at West face, (2) vertical cracks [up to 3 foot x 1/32 inch]	2	1	Each

**General Comments**

**Bent 3****Pile 2****Reinforced Concrete Column**

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

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/> 205	Cracking (RC and Other)	west face, delamination (1 foot x full height) with cracks (up to 1/16 inch)	3	1	1	Each
<input checked="" type="checkbox"/> 205	Delamination/Spall	BOTTOM OF COLUMN 2 NORTHEAST CORNER HAS A SPALL AREA 5 INCH X 8 INCH X 1 INCH DEEP.	3		1	Each

**General Comments**

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1475
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	54
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	54
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	54
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	54
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
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	1623
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	55
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	55
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	55
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	55
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 2	Expansion Joint 1	Standard Joint	Pourable Joint Seal	29
Span 2	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1623
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	55
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	55
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	55
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	55
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	55
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1430
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
Span 3	Far Bearing 3	Movable Bearing	Movable Bearing	1

## Elements Verified

Location	Name	Component	Element Name	Amount
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	1298
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	43
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	44
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	44
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1144
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	28
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	35
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	28
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	35
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	28
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

# General Inspection Notes

# National Bridge and NC Inspection Items

Structure Number: 110143

Inspection Date: 08/24/2023

## 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	6019	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	8
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N
Portion of Structure in > 3' of water	YES/NO	N

# National Bridge and NC SMU Inspection Item Details

**Structure Number:** 110143

**Inspection Date:** 08/24/2023

<b>Item</b>	Deck Debris	<b>Grade</b>	F	<b>Maint Code</b>	3376	<b>Qty.</b>	6019
<b>Details</b>	along curblines, debris accumulation (full length x up to 1 foot) with vegetation growth						
<b>Item</b>	Drainage System	<b>Grade</b>	F	<b>Maint Code</b>	3332	<b>Qty.</b>	0
<b>Details</b>	see deck debris						
<b>Item</b>	General Comments and Misc Items	<b>Grade</b>		<b>Maint Code</b>		<b>Qty.</b>	0
<b>Details</b>	(PAR) northwest guardrail termination, impact damage (PAR) along all guardrails, timber spacers, loose/twisted (PAR) northeast guardrail 18 foot from termination, impact damage (7 foot) along all guardrails, surface rust at random (PAR) northwest guardrail, 1st, 7th and 8th timber posts from end bent 2, timber spacers, missing (PAR) northeast guardrail, 3rd and 7th timber posts from end bent 2, timber spacers, missing (PAR) northeast guardrail 4 foot from attachment, impact damage (6 foot) (PAR) northwest guardrail attachment, improper lap (PAR) southeast guardrail attachment, improper lap						



Span 1 Deck: (PAR) [2] UP TO 1 FOOT X UP TO 4 INCH X 1 INCH DEEP SPALLS WITH EXPOSED REINFORCING EAST OVERHANG NEAR MIDSPAN



Span 1 Deck: throughout underside of all bays, multiple transverse cracks [up to 8 foot x 1/32 inch] and map cracks (hairline) at random



Span 1 Deck: (PAR) 1 FOOT X UP TO 1 FOOT X 1 INCH DEEP SPALL/DELAMINATION WITH EXPOSED REINFORCING WEST OVERHANG 15 FOOT FROM BENT 1



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



End Bent 1 Abutment: at all beam penetrations, multiple delaminations [up to 9 inch x 2 inch] with cracks (up to 1/4 inch)



End Bent 2 Cap 1: (PAR) 6 FOOT X UP TO 16 INCH X 10 INCH X 3 INCH DEEP SPALL WITH EXPOSED PRIMARY REBAR WITH SECTION LOSS [UP TO 1/16 INCH] UNDER BEAM 1



Span 4 Beam 1: West top flange at midspan, active surface corrosion [no loss]



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



(PAR) northwest guardrail termination, impact damage



(PAR) along all guardrails, timber spacers, loose/twisted



(PAR) northeast guardrail 18 foot from termination, impact damage (7 foot)



along all guardrails, surface rust at random



(PAR) northwest guardrail, 1st, 7th and 8th timber posts from end bent 2, timber spacers, missing



(PAR) northwest guardrail, 1st, 7th and 8th timber posts from end bent 2, timber spacers, missing



(PAR) northeast guardrail, 3rd and 7th timber posts from end bent 2, timber spacers, missing



(PAR) northeast guardrail, 3rd and 7th timber posts from end bent 2, timber spacers, missing



(PAR) northeast guardrail 4 foot from attachment, impact damage (6 foot)



Span 1 Wearing Surface: over end bent 1, right travel lane, transverse crack (1/16 inch x 12 foot)



along curblines, debris accumulation (full length x up to 1 foot) with vegetation growth



Span 2 Wearing Surface: over bent 1, transverse crack (up to 1/16 inch x 28 foot)



Span 3 Wearing Surface: over bent 2, transverse crack (1/16 inch x 28 foot)



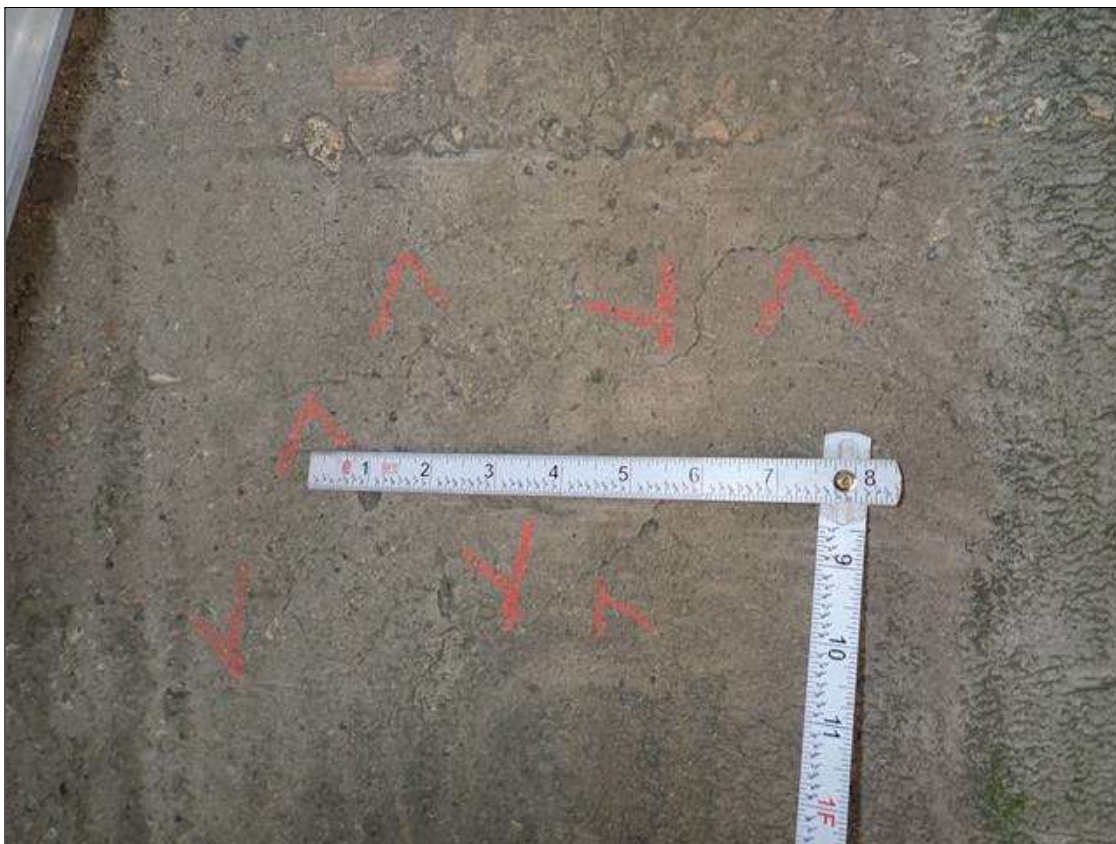
Span 3 Beam 1: at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 9 inch)



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



Span 3 Beam 2 - Far Bearing 2: surface rust/rust scale



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



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



Span 3 Beam 1: (PAR) at bent 3 left overhang end diaphragm, spall/delamination [full height x up to 12 inch x up to 1.5 inch deep] with exposed rusted reinforcing [up to 1/8 inch section loss]



Span 3 Beam 3: at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 6 inch)



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



Span 3 Beam 4: at bent 3, corrosion with section loss: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 23 inch)



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



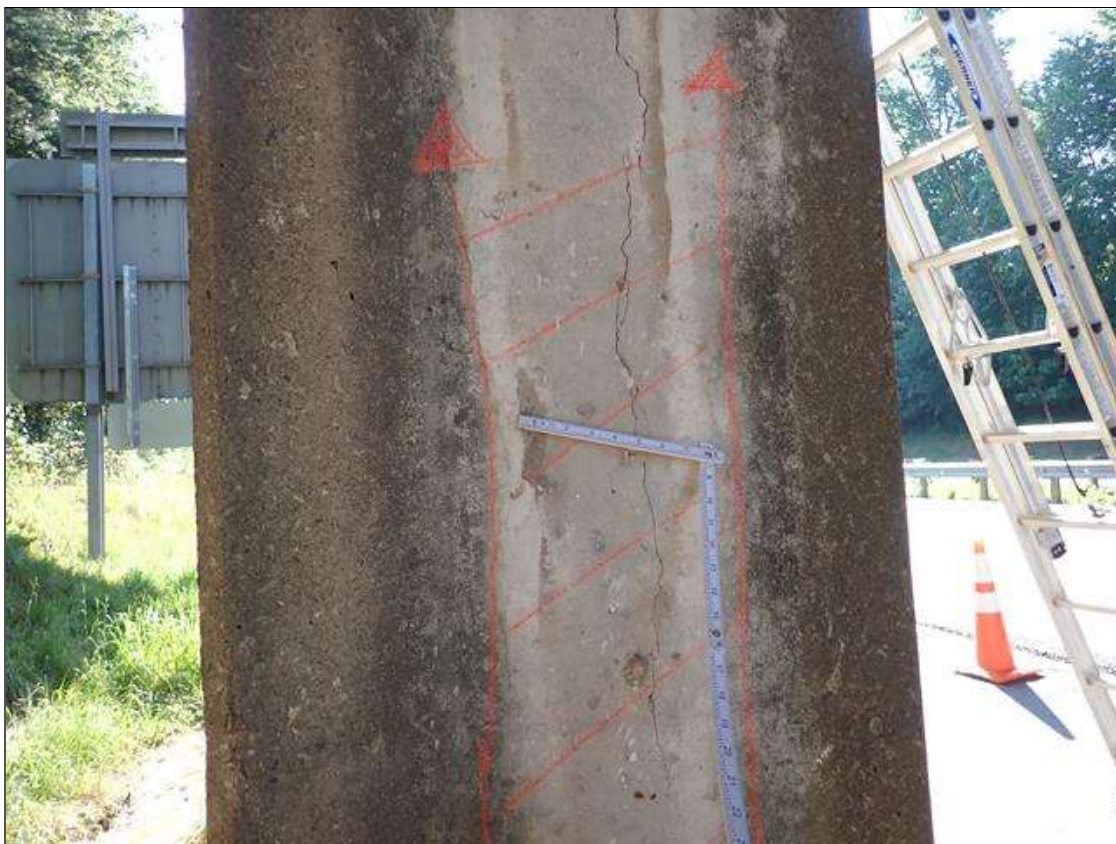
Bent 3 Cap 1: NORTH FACE OF CAP UNDER BEAM 1 HAS A 9 INCH X 11 INCH X 2 INCH DEEP SPALL AT TOP OF CAP.



Bent 3 Pile 1: at East face, hairline map cracking at random



Bent 3 Pile 1: at West face, (2) vertical cracks [up to 3 foot x 1/32 inch]



Bent 3 Pile 2: west face, delamination (1 foot x full height) with cracks (up to 1/16 inch)



Bent 3 Pile 2: BOTTOM OF COLUMN 2 NORTHEAST CORNER HAS A SPALL AREA 5 INCH X 8 INCH X 1 INCH DEEP.



Bent 3 Cap 1: (PAR) 12 INCH X 24 INCH X 2 INCH DEEP SPALL WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS SOUTHEAST CORNER



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



Span 3 Deck: (PAR) MULTIPLE UP TO 2 FOOT X 1 FOOT X 1 DEEP SPALL/DELAMINATION WITH EXPOSED REBAR AT RANDOM THROUGHOUT WEST OVERHANG; SOME DELAMINATION OVER TRAVEL LANES



Span 3 Deck: (PAR) MULTIPLE UP TO 2 FOOT X 1 FOOT X 1 DEEP SPALL/DELAMINATION WITH EXPOSED REBAR AT RANDOM THROUGHOUT WEST OVERHANG; SOME DELAMINATION OVER TRAVEL LANES



Span 3 Deck: (PAR) MULTIPLE UP TO 2 FOOT X 1 FOOT X 1 DEEP SPALL/DELAMINATION WITH EXPOSED REBAR AT RANDOM THROUGHOUT WEST OVERHANG; SOME DELAMINATION OVER TRAVEL LANES



Span 3 Deck: (PAR) MULTIPLE UP TO 1 FOOT X 1 FOOT X 1 INCH DEEP SPALLS/DELAMINATIONS WITH EXPOSED REBAR AT RANDOM THROUGHOUT EAST OVERHANG; SOME DELAMINATIONS OVER TRAVEL LANE



Span 3 Deck: (PAR) MULTIPLE UP TO 1 FOOT X 1 FOOT X 1 INCH DEEP SPALLS/DELAMINATIONS WITH EXPOSED REBAR AT RANDOM THROUGHOUT EAST OVERHANG; SOME DELAMINATIONS OVER TRAVEL LANE



Span 3 Beam 4 - Protective System: over right travel lane, impact scrapes



Span 3 Beam 3: at bent 2, active corrosion with section loss, web at diaphragm [10 inch x 1 inch x average remaining 9/16 inch]



Span 3 Beam 3 - Near Bearing 3: rust scale



Span 2 Beam 3: at bent 2, active corrosion with section loss, web at diaphragm [9 inch x 1 inch x average remaining 1/2 inch]



Span 3 Beam 2: at bent 2, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 10 inch x 4 inch); bottom flange (0.80 inch average remaining x 1 inch)



Span 3 Beam 2: at bent 2, corrosion with section loss: web adjacent to end diaphragm (9/16 inch average remaining x 10 inch x 4 inch); bottom flange (0.80 inch average remaining x 1 inch)



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



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



Bent 2 Pile 1: FULL HEIGHT X UP TO 1/32 INCH VERTICAL CRACKS WEST AND NORTH FACES BEGINNING AT BOTTOM OF CAP



Bent 2 Pile 2: West face mid height, delamination [6 foot x 18 inch] with cracks [up to 1/32 inch]



Bent 2 Pile 2: South face starting at ground line, vertical crack (1/32 inch x full height); 2 foot from ground, spall (8 inch x 5 inch x 1/2 inch deep) with exposed rusted rebar



Span 2 Deck: (PAR) along underside of left overhang, two [2] spalls [up to 18 inch x 12 inch x 1 inch deep] with exposed rusted reinforcing [no loss]



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



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



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



Span 2 Beam 4: at bent 1, web adjacent to end diaphragm, rust scale (10 inch x 15 inch)



Span 1 Beam 1: (PAR) 2 FOOT X UP TO 1 FOOT X 2 INCH DEEP DIAPHRAGM SPALL/DELAMINATION WITH EXPOSED REBAR WITH APPROXIMATELY 25 PERCENT LOSS WEST OVERHANG AT BENT 1.



Bent 1 Cap 1: BENT 1 SOUTH FACE OF CAP HAS A HORIZONTAL CRACK UP TO 1/32 INCH X 3 FOOT ALONG TOP EDGE BETWEEN BEAMS 2 AND BEAMS 3.



Bent 1 Cap 1: BOTTOM FACE OF CAP RIGHT SIDE OF COLUMN 1 HAS A SURFACE SPALL AREA 3 INCH WIDE X 10 INCH LONG X 1/2 INCH DEEP WITH REBAR EXPOSED.



Bent 1 Cap 1: 6 INCH DIAMETER X 1/2 INCH DEEP SPALL WITH EXPOSED REINFORCING SOUTH FACE OF CAP BELOW BEAM 2



Bent 1 Cap 1: South face at West end, spall [15 inch x 3 inch x 1 inch deep] with exposed rusted reinforcing [no loss] and adjacent delamination at underside [1 foot x full width]



Bent 1 Cap 1: BENT 1 SOUTH FACE OF CAP BETWEEN BEAM 1 AND BEAM 2 CRACKED AND DELAMINATED AREA TOP FACE OF CAP 11 INCH X 31 INCH



Bent 1 Pile 1: UP TO 7 FOOT X UP TO 1/16 INCH VERTICAL CRACKS WEST AND EAST FACES



Bent 1 Pile 1: 6 INCH X 6 INCH X 1 INCH DEEP CORNER SPALL NORTHWEST CORNER 5 foot FROM BOTTOM OF CAP



Bent 1 Pile 2: UP TO 3 FOOT X 1/16 INCH VERTICAL CRACKS ALL FACES NEAR BOTTOM OF CAP



(PAR) northwest guardrail attachment, improper lap



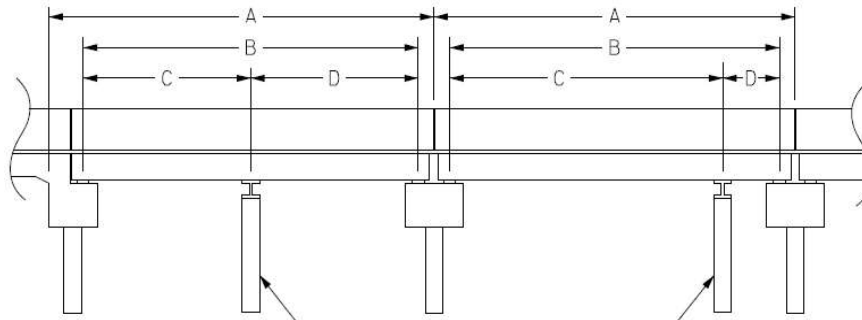
(PAR) southeast guardrail attachment, improper lap

# Structure Data Worksheet

## Span Profile

County: **BURKE**

Structure Number: **110143**



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	50.000	48.000			
2	55.000	53.833			
3	55.000	53.833			
4	44.000	41.917			

Structure Number: 110143

Span: 2

Route Name: I 40 EBL



roadway under span 2, looking east

Route Number: 11000400	Route Name: I 40 EBL	Reference Feature: H		
Minimum Vertical Clearance 16.150 feet	Maximum Minimum Vertical Clearance 16.660 feet			
Total Horizontal Clearance 41.250 feet	Lateral Clearances: Left: 13.230 feet Right: 9.590 feet			
<input checked="" type="checkbox"/> Base Highway Network	LRS Inventory Route, Sub Route Number 10040			
Milepost: 105.900	Number of Lanes: 2	ADT: 22000	Year of ADT: 2015	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: 110143

Span: 3

Route Name: I 40 WBL



roadway under span 3, looking west

Route Number: 11000400		Route Name: I 40 WBL		Reference Feature: H	
Minimum Vertical Clearance 15.100 feet		Maximum Minimum Vertical Clearance 15.340 feet			
Total Horizontal Clearance 41.333 feet		Lateral Clearances: Left: 13.320 feet Right: 9.490 feet			
<input checked="" type="checkbox"/> Base Highway Network		LRS Inventory Route, Sub Route Number 10040			
Milepost: 105.900	Number of Lanes: 2	ADT: 22000	Year of ADT: 2015	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	20.667ft Wide		Looking North
Left Shoulder	8.5ft Wide	0.5ft Paved	8ft Unpaved
Right Shoulder	3.5ft Wide	0.5ft Paved	3ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS TAKEN 100' FROM END BENT 1

Title  
APPROACH ROADWAY

Description  
LOOKING NORTH

Structure No: 110143

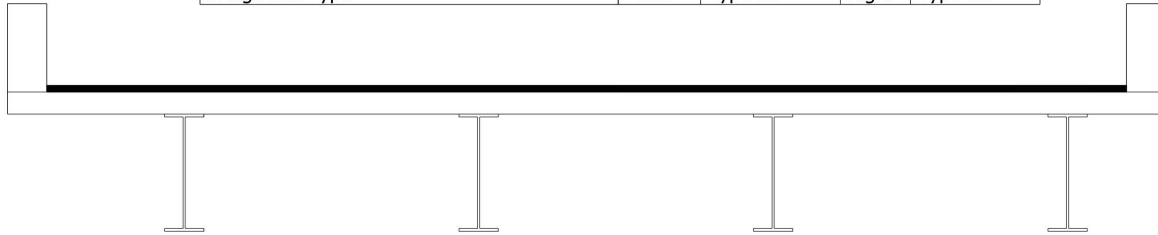
Drawn By: JCRODRIGUEZ

Date: 8/24/2023

Filename: S000930000244.wes

# Bridge Inspection Field Sketch

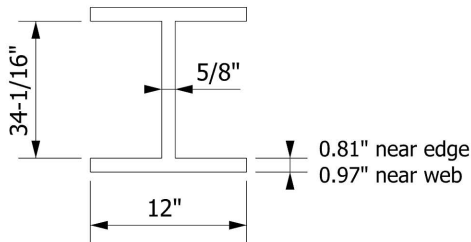
Deck Width/Out to Out	31.2ft	Between Rails	29.333ft
Clear Roadway	26ft	Wearing Surface	2in
Median Width		Median Height	
Curb Height		Left 7in	Right 7in
Sidewalk Width		Left 1.667ft	Right 1.667ft
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left 8in	Right 8in
Top of Rail to Deck/Wearing Surface		Left 2.25ft	Right 2.25ft
Bridge Rail Type		Left Type 11	Right Type 22



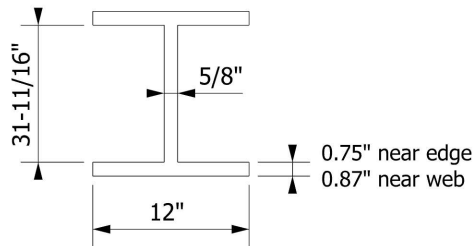
Measurements for Span #	1	All Spans Similar	
Deck Thickness	6.75in	Left Overhang	4.5ft
Top of Rail to Bottom of Beam (Avg)	5.799ft	Right Overhang	4.5ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12in	35.84in	4.5ft	Left Edge of Deck
2	Plate Girder	12in	35.84in	7.5ft	Beam 1
3	Plate Girder	12in	35.84in	7.5ft	Beam 2
4	Plate Girder	12in	35.84in	7.5ft	Beam 3

Span 4 exterior beams  
Spans 1, 2 & 3 all beams



Span 4 interior beams



Cover plates in spans 2 and 3 could not be verified

Title  
TYPICAL SECTION

Description  
LOOKING NORTH

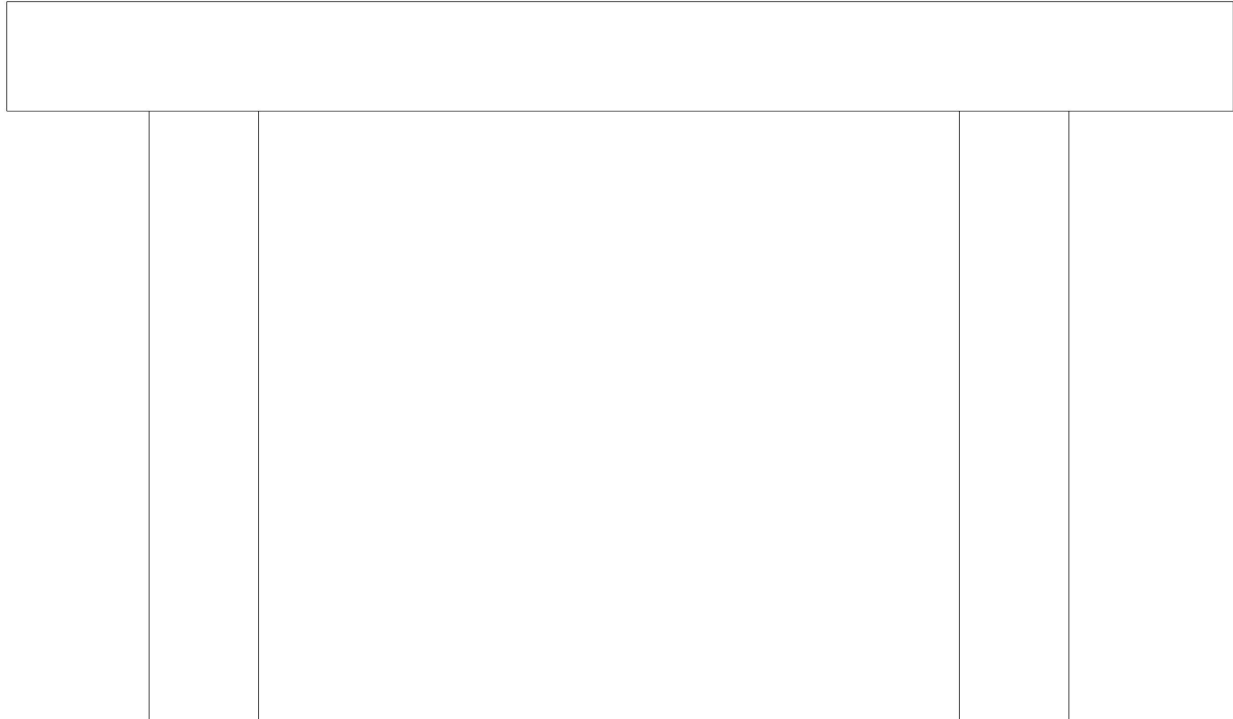
Structure No: 110143

Drawn By: JCRODRIGUEZ

Date: 8/24/2023

Filename: S000930000248.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	28ft	30in	30in	2ft	1.333ft
Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4.5ft	Left End of Bent	30in	30in	13ft
2	Pile 2	Reinforced Concrete Column	18.5ft	Pile 1	30in	30in	13ft

Title BENT SKETCH		Description LOOKING NORTH	
Structure No: 110143	Drawn By: JCRODRIGUEZ	Date: 8/24/2023	Filename: S000930000249.wes



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



west profile looking east



bent 1



bent 3



superstructure underside



intermediate diaphragm



bent 2



southeast wingwall



end bearing assembly



end bent 1 and slope protection



southwest wingwall



east profile looking west



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



northeast wingwall



end bent 2 and slope protection



northwest wingwall



northeast guardrail termination



northwest guardrail termination



north approach looking south



northwest guardrail attachment



northwest guardrail transition



northwest guardrail



northeast guardrail attachment



northeast guardrail



end bent 2 asphalt



north approach looking north



bent 3 asphalt



bent 2 asphalt



roadway looking east



roadway looking west



bent 1 asphalt



south approach looking south



southwest guardrail attachment



southwest guardrail



southeast guardrail attachment



southeast guardrail



southeast guardrail transition



bridge number



end bent 1 asphalt



asphalt wearing surface



right bridge rail



left bridge rail



south approach looking north



southeast guardrail termination



southwest guardrail termination



interior bearing assembly



ladder used



beams over bent



typical cover plate termination