



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

CHANGES MADE TO SPAN 2 CLEARANCE, PARs FOR
SPAN 2 BEAM 1

Structure Safety Report

Supplemental Element Inspection

STRUCTURE NUMBER: 110144 SAP STRUCTURE NO: 0120144 FHWA STRUCTURE NO: 000000000230144
DIVISION: 13 COUNTY: BURKE INSPECTION DATE: 09/19/2024 FREQUENCY: None
FACILITY CARRIED: SR1704 MILE POST: _____
LOCATION: .2 MI.N.JCT.SR1712
FEATURE INTERSECTED: I-40
LATITUDE: 35° 43' 31.7" LONGITUDE: 81° 38' 10.99"
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 4 / 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 _____

Looking East

INSPECTED BY ME CARTER	SIGNATURE	ASSISTED BY JLR
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NATIONAL BRIDGE INVENTORY ----- STRUCTURE INVENTORY AND APPRAISAL

12/17/2024

IDENTIFICATION							
(1) STATE NAME	NORTH CAROLINA	BRIDGE	110144	SUFFICIENCY RATING			59.17
(8) STRUCTURE NUMBER (FEDERAL)			0230144	STATUS =			
(5) INVENTORY ROUTE (ON/UNDER)	ON		131017040	CLASSIFICATION		CODE	
(2) STATE HIGHWAY DEPARTMENT DISTRICT			13	(112) NBIS BRIDGE SYSTEM			YES
(3) COUNTY CODE (FEDERAL)	23	(4) PLACE CODE	44400	(104) HIGHWAY SYSTEM	Inventory Route not on NHS		0
(6) FEATURE INTERSECTED	I-40			(26) FUNCTIONAL CLASS	Urban Collector		17
(7) FACILITY CARRIED	SR1704			(100) STRAHNET HIGHWAY	Not a STRAHNET Route		0
(9) LOCATION	.2 MI.N.JCT.SR1712			(101) PARALLEL STRUCTURE	No parallel structure exists		N
(11) MILEPOINT			0.0	(102) DIRECTION OF TRAFFIC	2-way traffic		2
(12) BASE HIGHWAY NETWORK			0	(103) TEMPORARY STRUCTURE			
(13) LRS INVENTORY ROUTE & SUBROUTE				(110) DESIGNATED NATIONAL NETWORK - on national network for trucks			0
(16) LATITUDE	35° 43' 31.7"	(17) LONGITUDE	81° 38' 10.99"	(20) TOLL	On Free Road		3
(98) BORDER BRIDGE STATE CODE		PERCENT SHARED		(21) MAINT -			01
(99) BORDER BRIDGE STRUCTURE NUMBER				(22) OWNER -			01
STRUCTURE TYPE AND MATERIAL				(37) HISTORICAL SIGNIFICANCE -			5
(43) STRUCTURE TYPE MAIN			Steel				
TYPE	Stringer/Multi-beam or girder	CODE	302				
(44) STRUCTURE TYPE APPROACH				CONDITION		CODE	
TYPE		CODE		(58) DECK			6
(45) NUMBER OF SPANS IN MAIN UNIT			4	(59) SUPERSTRUCTURE			5
(46) NUMBER OF SPANS IN APPROACH			0	(60) SUBSTRUCTURE			5
(107) DECK STRUCTURE TYPE		CODE	1	(61) CHANNEL & CHANNEL PROTECTION			N
(108) WEARING SURFACE/PROTECTIVE SYSTEM				(62) CULVERTS			N
(A) TYPE OF WEARING SURFACE		CODE	6	LOAD RATING AND POSTING		CODE	
(B) TYPE OF MEMBRANE		CODE	0	(31) DESIGN LOAD	HS 15		3
(C) TYPE OF DECK PROTECTION		CODE	0	(63) OPERATING RATING METHOD -	Load Factor		1
AGE AND SERVICE				(64) OPERATING RATING -	HS-27		48
(27) YEAR BUILT			1955	(65) INVENTORY RATING METHOD -			1
(106) YEAR RECONSTRUCTED			0	(66) INVENTORY RATING	HS-16		28
(42) TYPE OF SERVICE ON -		Overpass Structure		(70) BRIDGE POSTING	No Posting Required		5
OFF -		Highway	CODE 61	(41) STRUCTURE OPEN, POSTED, OR CLOSED			A
(28) LANES ON STRUCTURE	2	LANES UNDER STRUCTURE	4	DESCRIPTION	Open, no restriction		
(29) AVERAGE DAILY TRAFFIC			3800	APPRAISAL		CODE	
(30) YEAR OF ADT	2022	(109) TRUCK ADT PCT	7	(67) STRUCTURAL EVALUATION			5
(19) BYPASS OR DETOUR LENGTH			1.0	(68) DECK GEOMETRY			3
GEOMETRIC DATA				(69) UNDERCLEARANCES, VERT & HORIZ			3
(48) LENGTH OF MAXIMUM SPAN			51.0	(71) WATERWAY ADEQUACY			N
(49) STRUCTURE LENGTH			182.0	(72) APPROACH ROADWAY ALIGNMENT			8
(50) CURB OR SIDEWALK: LEFT	3.3	RIGHT	3.3	(36) TRAFFIC SAFETY FEATURES			0111
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB			26.0	(113) SCOUR CRITICAL BRIDGES			N
(52) DECK WIDTH OUT TO OUT			34.3	PROPOSED IMPROVEMENTS			
(32) APPROACH ROADWAY WIDTH (W/ SHOULDERS)			27.0	(75) TYPE OF WORK		CODE	
(33) BRIDGE MEDIAN		No median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW	7	(35) STRUCTURE FLARED	0	(94) BRIDGE IMPROVEMENT COST			
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9	(95) ROADWAY IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			26.0	(96) TOTAL PROJECT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(54) MIN VERT UNDERCLEAR: REFERENCE		H	14.9	(114) FUTURE ADT	7,600	YEAR OF FUTURE ADT	2040
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE		H	10.5	INSPECTION			
(56) MIN LAT UNDERCLEARANCE LT:			13.1	(90) INSPECTION DATE	08/23	(91) FREQUENCY	24
NAVIGATION DATA				(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE	
(38) NAVIGATION CONTROL -		CODE	N	A) FRACTURE CRIT DETAIL		A)	
(111) PIER PROTECTION		CODE		B) UNDERWATER INSP		B)	
(39) NAVIGATION VERTICAL CLEARANCE			0.0	C) OTHER SPECIAL INSP		C)	
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR			0.0	SCOUR			
(40) NAVIGATION HORIZONTAL CLEARANCE			0.0				

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 E	11000400	15.1	106.4	1	10040	11	2	22500	2015	42.2	H	14.9	10.5	13.1	3		1	☐	☐
3	I 40 W	11000400	16.9	106.4	1	10040	11	2	22500	2015	42.7	H	16.2	10.6	13.2	4		1	☐	☐

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

Superstructure Build Details

Span Number 1

Span Length 35.330

Skew 97.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
5	Plate Girder	Steel Open Girder/Beam	175 Feet	Legacy Non Lead Primer System with various Topcoats	1700
5	Fixed Bearing	Fixed Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1213 Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	919 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	72 Feet		
5	Movable Bearing	Movable Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5

Span Number 2

Span Length 52.500

Skew 97.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
5	Fixed Bearing	Fixed Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
1	Asphalt Wearing Surface	Wearing Surface	1365 Square Feet		
1	Standard Joint	Pourable Joint Seal	27 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1803 Square Feet		
5	Movable Bearing	Movable Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
2	Concrete Railing	Reinforced Concrete Bridge Railing	106 Feet		
5	Plate Girder	Steel Open Girder/Beam	265 Feet	Legacy Non Lead Primer System with various Topcoats	2580

Span Number 3

Span Length 52.500

Skew 97.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1365 Square Feet		
5	Fixed Bearing	Fixed Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
5	Plate Girder	Steel Open Girder/Beam	265 Feet	Legacy Non Lead Primer System with various Topcoats	2580
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1803 Square Feet		

Superstructure Build Details

2	Concrete Railing	Reinforced Concrete Bridge Railing	106 Feet		
1	Standard Joint	Pourable Joint Seal	27 Feet		
5	Movable Bearing	Movable Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5

Span Number 4

Span Length 42.000

Skew 97.000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1092 Square Feet		
5	Fixed Bearing	Fixed Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
1	Standard Joint	Pourable Joint Seal	27 Feet		
5	Plate Girder	Steel Open Girder/Beam	205 Feet	Legacy Non Lead Primer System with various Topcoats	2030
2	Concrete Railing	Reinforced Concrete Bridge Railing	84 Feet		
5	Movable Bearing	Movable Bearing	5 Each	Legacy Non Lead Primer System with various Topcoats	5
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1442 Square Feet		

Structure Element Scoring

Structure Number: 110144

Inspection Date 9/19/2024

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	6,261	3,507	2,752	2	0
107		Steel Open Girder/Beam	Beam	910	802	45	50	13
515	107	Steel Protective Coating	Beam	8,890	8,874	0	0	16
205		Reinforced Concrete Column	Piles and Columns	9	0	1	8	0
215		Reinforced Concrete Abutment	Abutments	72	55	15	2	0
220		Reinforced Concrete Pile Cap/Footing	Footing	18	18	0	0	0
228		Timber Pile	Piles and Columns	14	14	0	0	0
234		Reinforced Concrete Pier Cap	Caps	160	56	57	47	0
301		Pourable Joint Seal	Expansion Joints	81	23	6	0	52
311		Movable Bearing	Bearing Device	20	0	4	16	0
515	311	Steel Protective Coating	Bearing Device	20	0	0	1	19
313		Fixed Bearing	Bearing Device	20	0	7	13	0
515	313	Steel Protective Coating	Bearing Device	20	0	0	5	15
331		Reinforced Concrete Bridge Railing	Bridge Rail	368	0	356	12	0
510		Wearing Surface	Wearing Surfaces	4,741	4,061	0	680	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110144

Inspection Date: 09/19/2024

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	154 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	2600 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	15 Square Feet
3314	Steel Open Girder/Beam	Corrosion	43 Feet
3314	Steel Open Girder/Beam	Distortion	35 Feet
3348	Reinforced Concrete Column	Efflorescence/Rust Staining	5 Feet
3348	Reinforced Concrete Column	Delamination/Spall	1 Feet
3348	Reinforced Concrete Column	Exposed Rebar	3 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	4 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	2 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	19 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	2 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	3 Feet
3348	Reinforced Concrete Pier Cap	Efflorescence/Rust Staining	29 Feet
3310	Pourable Joint Seal	Seal Damage	52 Feet
3334	Movable Bearing	Corrosion	16 Each
3334	Fixed Bearing	Corrosion	13 Each
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	6 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	362 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	79 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	601 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	56 Square Feet

Element Structure Maintenance Quantities

Structure Number: 110144

Inspection Date 09/19/2024

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	63	910	13.000	50.000	45.000	802.000
Beam	3342	Clean and Paint Steel	16	8890	16.000	0.000	0.000	8874.000
Bearing Device	3334	Bridge Bearing	16	20	0.000	16.000	4.000	0.000
Bearing Device	3334	Bridge Bearing	13	20	0.000	13.000	7.000	0.000
Bearing Device	3342	Clean and Paint Steel	20	20	19.000	1.000	0.000	0.000
Bearing Device	3342	Clean and Paint Steel	20	20	15.000	5.000	0.000	0.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	368	368	0.000	12.000	356.000	0.000
Deck	3326	Maintenance of Concrete Deck	2769	6261	0.000	2.000	2752.000	3507.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	52	81	52.000	0.000	6.000	23.000
Wearing Surfaces	2816	Asphalt Surface Repair	680	4741	0.000	680.000	0.000	4061.000
Abutments	3350	Maintenance of Concrete Wings and Wall	2	72	0.000	2.000	15.000	55.000
Caps	3348	Maintenance of Concrete Substructure	53	160	0.000	47.000	57.000	56.000
Footing	3348	Maintenance of Concrete Substructure	0	18	0.000	0.000	0.000	18.000
Piles and Columns	3344	Maintenance To Timber Substructure	0	14	0.000	0.000	0.000	14.000
Piles and Columns	3348	Maintenance of Concrete Substructure	13	9	0.000	8.000	1.000	0.000

Priority Actions Request

Structure Number 110144

Span2

3314

Beam 1

Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
4	Distortion	2	Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 AT THE POINT OF IMPACT LOCATED 17 FOOT 2 INCH FROM BENT 2 THE BOTTOM FLANGE IS BENT UPWARD ON THE WEST SIDE. THIS IS 2 FOOR LONG X 2 INCH HIGH X 9 INCH ACROSS. THERE IS A 6.5 INCH LONG X UP TO 1/4 INCH DEEP X 5 INCH ACROSS GOUGE IN THE CENTER OF THE BENT BOTTOM FLANGE ON THE WEST SIDE. AT THE SAME LOCATION ON THE EAST SIDE THE BOTTOM FLANGE IS BENT DOWNWARD UP TO A 1/4 INCH OVER A 20 INCH LENGTH. (PAR)
4	Distortion	13	Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 IS OUT OF PLUMB UP TO 5 DEGREES EASTWARD AT POINT OF IMPACT WHICH IS 17 FOOT 2 INCH FROM BENT 2. IT IS OUT OF PLUMB FOR A TOTAL OF 15 FEET, 10 FOOT NORTH OF THE POINT OF IMPACT AND 5 FOOT TO THE SOUTH. (PAR)

? PAR Submitted

1 Routine Maintenance

2 Priority 24 Month

3 Priority 12 Month

4 Assigned Critical Find

Element Condition and Maintenance Data

Structure Number: 110144

Inspection Date: 09/19/2024

Span 1	Deck
Reinforced Concrete Deck	

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,213	813	400	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 12	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/64 inch x full width) 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	35	24	11	0	0	Feet
515	Steel Protective Coating	340	339	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 107	Corrosion	at bent 1, painted over pitting: web (up to 1/8 inch deep x 11 foot x up to 16 inch) with corrosion reactivating	2	11		Feet
☐ 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	35	34	0	0	1	Feet
515	Steel Protective Coating	340	339	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 107	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (5/16 inch average remaining x 10 inch x 3.5 inch) with corrosion reactivating	4	1	1	Feet
☐ 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	35	34	0	0	1	Feet
515	Steel Protective Coating	340	340	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 107	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web (1/4 inch average remaining x 11 inch x 3.5 inch)	4	1	1	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	35	34	0	1	0 Feet
515	Steel Protective Coating	340	339	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	at bent 1, corrosion with section loss/pitting: web adjacent to end diaphragm (7/16 inch average remaining x 10 inch x 2 inch)	3	1	1 Feet
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet

General Comments

Span 1 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	35	34	0	0	1 Feet
515	Steel Protective Coating	340	339	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	(PAR) at bent 1, painted over section loss/pitting: upper web (7/16 inch average remaining x 11 inch x 8 inch); lower web (1/2 inch average remaining x 8 foot x 2 inch) with corrosion reactivating	4	1	1 Feet
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	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	36	0	36	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	32	32 Feet
☐ 331	Delamination/Spall	UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	4	4 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	36	0	36	0	0	Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	31	31	Feet	
☐ 331	Delamination/Spall	UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	5	5	Feet	
General Comments							

Span 1 Near Bearing 1

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	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	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	surface rust/rust scale	2	1		Each	
☐ 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1	1	Square Feet	
General Comments							

Span 1 Near Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	surface rust	2	1		Each	

Inspection Date: 09/19/2024

General Comments

Movable Bearing

Steel Protective Coating	1	0	0	0	1	Square Feet
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General Comments

Fixed Bearing

Steel Protective Coating	1	0	0	1	0	Square Feet
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General Comments

Movable Bearing

Steel Protective Coating	1	0	0	0	1	Square Feet
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General Comments

Span 1 Near Bearing 4

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 313	Corrosion	surface rust	2	1		Each
☐ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet
General Comments						

Span 1 Far Bearing 4

Movable Bearing

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

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

Span 1 Near Bearing 5

Fixed Bearing

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

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

Span 1 Far Bearing 5

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 311	Corrosion	corrosion with section loss (up to 1/16 inch)	3	1	1	Each

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☐	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
General Comments							

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface		919	815	0	104	0	Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty		
☐ 510	Crack (Wearing Surface)	over end bent 1, transverse cracks (up to 1/8 inch x full roadway width) with edge spalling (2 foot x 6 inch x 1.5 inch deep)		3	26	26	Square Feet	
☐ 510	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random		3	78	78	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		1,803	749	1,052	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 12	Delamination/Spall	(PAR) 2 FOOT X 1 FOOT X 3/4 INCH DEEP SPALL WITH EXPOSED REBAR BAY 1 ADJACENT TO BEAM 1 15 FOOT FROM BENT 2	3	2	2	Square Feet
☐ 12	Exposed Rebar	(PAR) bays 1 and 4 end diaphragm over bent 2, spalls/delaminations (3 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3		6	Square Feet
☐ 12	Cracking (RC and Other)	SPAN 2 BOTTOM OF DECK HAS SCATTERED MAP CRACKING UP TO 1/64 INCH	2	1,000	1,000	Square Feet
☐ 12	Delamination/Spall	MULTIPLE AREAS OF HONEYCOMBING IN BAYS 1 & 4 AT RANDOM THROUGHOUT.	2	50	50	Square Feet
☐ 12	Delamination/Spall	SCATTERED POPOUTS IN BOTTOM DECK AT LEFT SIDE OF TOP FLANGE OF BEAM 1 UP TO 1 INCH DEEP	2	2	2	Square Feet
General Comments						

Span 2 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	29	3	21	0	Feet
515	Steel Protective Coating	516	512	0	0	4	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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☒	107	Distortion	SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 AT THE POINT OF IMPACT LOCATED 17 FOOT 2 INCH FROM BENT 2 THE BOTTOM FLANGE IS BENT UPWARD ON THE WEST SIDE. THIS IS 2 FOOT LONG X 2 INCH HIGH X 9 INCH ACROSS. THERE IS A 6.5 INCH LONG X UP TO 1/4 INCH DEEP X 5 INCH ACROSS GOUGE IN THE CENTER OF THE BENT BOTTOM FLANGE ON THE WEST SIDE. AT THE SAME LOCATION ON THE EAST SIDE THE BOTTOM FLANGE IS BENT DOWNWARD UP TO A 1/4 INCH OVER A 20 INCH LENGTH. (PAR)	4	2	2 Feet
☐	107	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating	3	1	1 Feet
☐	107	Distortion	POINT OF IMPACT TO BEAM 1 AT 24 FOOT 8 INCH FROM BENT 1 FOR A LENGTH OF 15 FOOT. BEAM 1 IS SWEEP EASTWARD FOR 1 INCH FOR A LENGTH OF 20 FOOT. SCATTERED SCRAPES TO LEFT SIDE OF BOTTOM WEB AND SCATTERED SCRAPES TO BOTTOM FLANGE. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 14 FOOT 7 INCH FROM INTERIOR. BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP. INDENTION IN LEFT SIDE OF BOTTOM FLANGE AT 20 FOOT 9 INCH FROM BENT 1, 2 INCH LONG X 1 INCH WIDE X 1/8 INCH DEEP.	3	20	20 Feet
☒	107	Distortion	SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 IS OUT OF PLUMB UP TO 5 DEGREES EASTWARD AT POINT OF IMPACT WHICH IS 17 FOOT 2 INCH FROM BENT 2. IT IS OUT OF PLUMB FOR A TOTAL OF 15 FEET, 10 FOOT NORTH OF THE POINT OF IMPACT AND 5 FOOT TO THE SOUTH. (PAR)	3	13	13 Feet
☐	107	Corrosion	at bent 1, painted over pitting: web (up to 1/8 inch deep x 3 foot x up to 17 inch); bottom flange (up to 1/16 inch deep x 3 foot) with corrosion reactivating	2	3	Feet
☐	107	Distortion	(combined with other notes 2023) Previous impact to beam (beam sweeps 1 inch eastward over travel lanes)	1		Feet
☐	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	4	4 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	53	46	5	0	2 Feet
515	Steel Protective Coating	516	516	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 9 inch x 2 inch)	4	1	1 Feet
☐ 107	Corrosion	(PAR) at bent 2, painted over section loss/pitting: bottom flange (0.73 inch average remaining x 3 inch); web adjacent to end diaphragm (3/8 inch average remaining x 10 inch x 6 inch)	4	1	1 Feet
☐ 107	Distortion	SCATTERED SCRAPES TO BOTTOM FLANGE THROUGHOUT BEAM 2	2	5	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	53	46	5	0	2 Feet
515	Steel Protective Coating	516	516	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	(PAR) at bent 1, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 2 inch x 8 inch); bottom flange, pitting (up to 1/16 inch deep x 2 foot); web, pitting (up to 1/16 inch deep x 2 foot x up to full height)	4	2	2 Feet
☐ 107	Damage	SCATTERED SCRAPES TO BOTTOM FLANGE AT RANDOM	2	5	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	53	46	5	2	0 Feet
515	Steel Protective Coating	516	515	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	at bent 1, painted over section loss/pitting: web adjacent end diaphragm (1/2 inch average remaining x 6 inch x 2 inch)	3	1	1 Feet
☐ 107	Corrosion	at bent 2, painted over section loss/pitting: bottom flange (0.70 inch average remaining x 1.5 inch); web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 2 inch) with corrosion reactivating	3	1	1 Feet
☐ 107	Distortion	SCATTERED SCRAPES TO LEFT SIDE OF WEB. SCATTERED SCRAPES TO BOTTOM FLANGE	2	5	Feet
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet
General Comments					

Span 2

Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	53	35	5	10	3 Feet
515	Steel Protective Coating	516	513	0	0	3 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	(PAR) at bent 1, painted over section loss/pitting: bottom flange (0.72 inch average remaining x 2.5 foot); web (7/16 inch average remaining x 2.5 foot x 18 inch) with corrosion reactivating	4	3	3 Feet

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☐	107	Corrosion	at bent 2, painted over pitting: web (up to 1/8 inch deep x 10 foot x 24 inch); bottom flange, painted over section loss (0.70 inch average remaining x 10 inch); bottom flange 10 inch from bearing, painted over pitting (up to 1/16 inch pitting x 10 foot)	3	10	10	Feet
☐	107	Distortion	SCATTERED SCRAPES TO BOTTOM FLANGE	2	5		Feet
☐	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	3	3	Square Feet

General Comments

Span 2 Bent 1 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	27	15	0	0	12	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 301	Seal Damage	at missing asphalt locations, seal deteriorated/torn/missing (up to full depth)	4	12	12	Feet
☐ 301	Debris Impaction	at missing asphalt locations, debris accumulation (up to 32 inch) at random	2			Feet

General Comments

COVERED BY ASPHALT WEARING SURFACE.

Span 2 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	0	53	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	45	45	Feet
☐ 331	Delamination/Spall	UP TO 12 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	8	8	Feet

General Comments

Span 2 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	0	53	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	45	45	Feet
☐ 331	Delamination/Spall	UP TO 12 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	8	8	Feet

General Comments

Span 2

Near Bearing 1

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 2

Far Bearing 1

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 2

Near Bearing 2

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 2

Far Bearing 2

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each	

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General Comments

Fixed Bearing

Steel Protective Coating	1	0	0	0	1	Square Feet
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General Comments

Movable Bearing

Steel Protective Coating	1	0	0	0	1	Square Feet
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General Comments

Fixed Bearing

Steel Protective Coating	1	0	0	0	1	Square Feet
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General Comments

Span 2

Far Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	corrosion with section loss (up to 3/16 inch deep)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 2

Near Bearing 5

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/8 inch)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 2

Far Bearing 5

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 2

Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,365	1,088	0	277	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 510	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random	3	225	225	Square Feet	

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☐	510	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 1, broken asphalt (full roadway width x 8 inch) with potholes (up to 32 inch x 5 inch x full depth)	3	26	26	Square Feet
☐	510	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 2, broken asphalt (full roadway width x 8 inch) with potholes (up to 10 foot x 9 inch x full depth)	3	26	26	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	1,803	603	1,200	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	12	Exposed Rebar	(PAR) bay 4 end diaphragm over bent 2, spalls/delamination (full width x 1 foot x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3		6 Square Feet
☐	12	Cracking (RC and Other)	throughout underside of deck, transverse cracks (up to 1/64 inch x full width) and map cracks (hairline) at random	2	1,100	1,100 Square Feet
☐	12	Delamination/Spall	MULTIPLE AREAS OF HONEYCOMBING IN BAYS 1 & 4 AT RANDOM THROUGHOUT.	2	100	100 Square Feet

General Comments

Span 3 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	50	0	3	0	Feet
515	Steel Protective Coating	516	514	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	107	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 16 inch x 13 inch); bottom flange, pitting (up to 1/16 inch deep x 16 inch) with corrosion reactivating	3	2	2 Feet
☐	107	Corrosion	at bent 3, painted over section loss/pitting: bottom flange (0.67 inch average remaining x 3 inch); web adjacent to end diaphragm, painted over pitting (up to 1/8 inch deep x 14 inch x 12 inch)	3	1	1 Feet
☐	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	53	51	1	0	1	Feet
515	Steel Protective Coating	516	515	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	107	Corrosion	(PAR) at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 9 inch x 2 inch)	4	1	1 Feet

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☐	107	Corrosion	at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1	Feet
☐	515	Effectiveness (Steel Protective Coatings)	rust scale	4	1	1 Square Feet
General Comments						

Span 3

Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	53	51	0	2	0	Feet
515	Steel Protective Coating	516	516	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 107	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (9/16 inch average remaining x 9 inch x 1 inch)	3	1	1	Feet
☐ 107	Corrosion	at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 12 inch x 1 inch)	3	1	1	Feet
General Comments						

Span 3

Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	53	51	1	0	1 Feet
515	Steel Protective Coating	516	516	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	(PAR) at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (3/8 inch average remaining x 10 inch x 1 inch)	4	1	1 Feet
☐ 107	Corrosion	at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 2 inch)	2	1	Feet
General Comments					

Span 3

Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	53	42	1	10	0 Feet
515	Steel Protective Coating	516	516	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	at bent 3, painted over pitting/section loss: bottom flange (0.75 inch average remaining x 1 foot); bottom flange 1 foot from bearing, painted over pitting (up to 1/16 inch deep x 10 foot); web, painted over pitting (up to 1/8 inch deep x 10 foot x 12 inch)	3	10	10 Feet

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☐	107	Corrosion	at bent 2, painted over section loss/pitting: web adjacent to end diaphragm (1/2 inch average remaining x 10 inch x 4 inch)	2	1	Feet
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General Comments

Span 3 Bent 2 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	27	0	0	0	27 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 301	Seal Damage	at missing asphalt locations, seal deteriorated/torn/missing (up to full depth)	4	27	27 Feet
☐ 301	Debris Impaction	at missing asphalt locations, debris accumulation (up to full length)	2		Feet

General Comments

COVERED BY ASPHALT WEARING SURFACE.

Span 3 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	0	49	4	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 331	Delamination/Spall	UP TO 18 INCH X 3 INCH X 1/2 INCH SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	3	4	4 Feet
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	49	49 Feet

General Comments

Span 3 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	0	53	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	45	45 Feet
☐ 331	Delamination/Spall	UP TO 6 INCH X 3 INCH X 1/4 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	8	8 Feet

General Comments

Span 3 Near Bearing 1

Fixed Bearing

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

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

Span 3 Far Bearing 1

Movable Bearing

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

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

Span 3 Near Bearing 2

Fixed Bearing

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

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

Span 3 Far Bearing 2

Movable Bearing

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

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

Span 3 Near Bearing 3

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	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		
☐ 311	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	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	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 3 Far Bearing 4

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	corrosion with section loss (up to 1/8 inch deep)	3	1	1	Each	

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☐	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
General Comments							

Span 3 Near Bearing 5

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/16 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 3 Far Bearing 5

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 3 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,365	1,213	0	152	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 510	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random	3	125	125	Square Feet	
☐ 510	Patched Area/Pothole (Wearing Surface)	(PAR) over bent 3, broken asphalt (full roadway width x 8 inch) with potholes (up to 5 foot x 5 inch x full depth)	3	27	27	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	1,442	1,342	100	0	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		

Structure Number: 110144Inspection Date: 09/19/2024

☐	12	Exposed Rebar	(PAR) bay 2 end diaphragm over bent 2, spalls/delaminations (3 foot x 12 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3		3	Square Feet
☐	12	Cracking (RC and Other)	throughout underside of deck, multiple areas of hairline map cracking	2	100	100	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	41	39	2	0	0	Feet
515	Steel Protective Coating	406	406	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	107	Corrosion				
		at bent 3, painted over pitting: web (up to 1/8 inch deep x 2 foot x 12 inch); bottom flange (up to 1/16 inch deep x 2 foot)	2	2		Feet
☐	107	Corrosion				
		(not found 2023) web at far end East face, arrested metal loss, up to 10 inch high x 12 inch long, average remaining 1/2 inch	1			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	41	40	1	0	0	Feet
515	Steel Protective Coating	406	405	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	107	Corrosion				
		at bent 3, web adjacent to end diaphragm, rust scale (10 inch)	2	1		Feet
☐	515	Effectiveness (Steel Protective Coatings)				
		rust scale	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	41	40	0	0	1	Feet
515	Steel Protective Coating	406	406	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐	107	Corrosion				
		(PAR) at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (5/16 inch average remaining x 10 inch x 2 inch)	4	1	1	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	41	40	0	1	0 Feet
515	Steel Protective Coating	406	406	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	at bent 3, painted over section loss/pitting: web adjacent to end diaphragm (7/16 inch average remaining x 12 inch x 1 inch)	3	1	1 Feet

General Comments

Span 4 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	41	36	5	0	0 Feet
515	Steel Protective Coating	406	406	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 107	Corrosion	at bent 3, painted over pitting: bottom flange (up to 1/8 inch deep x 3 foot); web (up to 1/8 inch deep x 5 foot x 15 inch)	2	5	Feet

General Comments

Span 4 Bent 3 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	27	8	6	0	13 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 301	Seal Damage	at missing asphalt locations, seal deteriorated/torn/missing (up to 5 foot)	4	13	13 Feet
☐ 301	Debris Impaction	at missing asphalt locations, debris accumulation (up to 5 foot)	2	6	Feet

General Comments

COVERED BY ASPHALT WEARING SURFACE.

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	42	0	42	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	36	36 Feet
☐ 331	Exposed Rebar	UP TO 6 INCH X 3 INCH X 1/4 INCH SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	2	6	6 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	42	0	34	8	0	Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 331	Delamination/Spall	UP TO 18 INCH X 3 INCH X 1/2 INCH DEEP SPALL WITH EXPOSED REBAR AT RANDOM THROUGHOUT	3	8	8	Feet	
☐ 331	Delamination/Spall	along the length of the rail and sidewalk, scaling with secure aggregate at random	2	34	34	Feet	
General Comments							

Span 4 Near Bearing 1

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 4 Far Bearing 1

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 313	Corrosion	corrosion with section loss (up to 1/8 inch loss)	3	1	1	Each	
☐ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet	
General Comments							

Span 4 Near Bearing 2

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
☐ 311	Corrosion	surface rust	2	1		Each	

Inspection Date: 09/19/2024

General Comments

Fixed Bearing

Steel Protective Coating	1	0	0	1	0	Square Feet
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General Comments

Movable Bearing

Steel Protective Coating	1	0	0	0	1	Square Feet
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General Comments

Fixed Bearing

Steel Protective Coating	1	0	0	0	1	Square Feet
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General Comments

Span 4 Near Bearing 4

Movable Bearing

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

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

Span 4 Far Bearing 4

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 313	Corrosion	surface rust	2	1		Each
☐ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet
General Comments						

Span 4 Near Bearing 5

Movable Bearing

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

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

Span 4 Far Bearing 5

Fixed Bearing

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

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

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☐	515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet
General Comments						

Span 4**Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface		1,092	945	0	147	0	Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty		
☐ 510	Crack (Wearing Surface)	over end bent 2, transverse cracks (up to 1/8 inch x full roadway width) with edge spalling (12 inch x 4 inch x 1 inch deep)		3	27	27	Square Feet	
☐ 510	Crack (Wearing Surface)	throughout asphalt wearing surface, transverse and longitudinal cracks (up to 1/8 inch x 10 foot) at random		3	120	120	Square Feet	
General Comments								

End Bent 1**Abutment****Reinforced Concrete Abutment**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment		36	29	5	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 215	Cracking (RC and Other)	at beams 1 and 3 penetrations, diagonal cracks, up to 12 inch x 1/16 inch	3	2	2	Feet
☐ 215	Cracking (RC and Other)	along the length of the abutment, vertical cracks (up to 1/64 inch x full height) at random	2	5		Feet
General Comments						

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	35	29	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 234	Cracking (RC and Other)	along length, multiple vertical cracks, up to 10 inch x 1/32 inch	2	6		Feet
General Comments						

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	30	0	15	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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☐	234	Exposed Rebar	(PAR) south face between bays 2-4, multiple spalls/delaminations (5 foot x 16 inch x 1 inch deep) some with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/16 inch) with rust stains	3	15	15	Feet
☐	234	Patched Area	beam 3 cap step up, north face, failed patch (3 foot x 8 inch x 1 inch deep)	3		3	Feet
☐	234	Cracking (RC and Other)	CAP HAS SCATTERED VERTICAL CRACKS UP TO 1/32 INCH X FULL HEIGHT, LONGITUDINAL CRACKS UP TO 1/32 INCH X 1 FOOT AND HAIRLINE MAP CRACKS ON ALL FACES, AT RANDOM THROUGHOUT.	2	12		Feet
☐	234	Delamination/Spall	South face below beam 1, delamination, 22 inch x 13 inch	2	2	2	Feet
☐	234	Patched Area	8 INCH DIAMETER PATCH, IN WEST END OF CAP.	2	1		Feet
☐	234	Cracking (RC and Other)	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP NORTH FACE BELOW BEAM 3. FAILED PATCH WITH CRACKS, UP TO 1/16 INCH, AND RUST STAIN	1			Feet
☐	234	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) 6 INCH X 10 INCH X 1 INCH SPALL WITH EXPOSED REBAR, NORTH FACE, UNDER BAY 3.	1			Feet
☐	234	Delamination/Spall	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP BAY 2 NORTH FACE. HAS A CRACK/SPALL AND DELAMINATED AREA WITH REBAR VISIBLE. AREA IS: 11 INCH X 14 INCH X 3/4 INCH DEEP.	1			Feet
☐	234	Patched Area	(COMBINED WITH OTHER NOTES 2023) BENT 1 CAP NORTH FACE HAS SCATTERED PATCHED AREAS WITH SOME MAP CRACKING AND RUST STAINS. PATCHED APPEAR TO BE SOUND	1			Feet

General Comments

Bent 1

Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 205	Cracking (RC and Other)	below cap, all corners, delaminations (9 inch x 4 foot) with cracks (up to 1/8 inch); along column, map cracks (hairline) and vertical cracks (up to 1/32 x full height) at random	3		1	Each
☐ 205	Efflorescence/Rust Staining	(PAR) NORTHWEST CORNER HAS A FAILED PATCHED AREA THAT IS CRACKED (UP TO 1/16 INCH) WITH RUST STAINS AND DELAMINATED. AREA ON NORTH FACE IS: 12 INCH WIDE, AREA ON WEST FACE IS: 10 INCH WIDE X 9 FOOT HIGH.	3	1	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	
☐ 205	Cracking (RC and Other)	below cap, all corners, delaminations (1 foot x 3 foot) with cracks (up to 1/8 inch)	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
☐ 205	Cracking (RC and Other)	west face, delamination (1 foot x 6.5 foot) with cracks (up to 1/8 inch)	3		1 Each
☐ 205	Exposed Rebar	(PAR) north face, spall/delamination (2 foot x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3	1	1 Each
☐ 205	Cracking (RC and Other)	UP TO 4 FOOT X 1/32 INCH VERTICAL CRACKS, AT RANDOM THROUGHOUT.	2		Each

General Comments

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	30	7	15	8	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 234	Efflorescence/Rust Staining	(PAR) UP TO 7 FOOT X 12 INCH DELAMINATIONS WITH HORIZONTAL CRACKS UP TO 1/16 INCH WITH RUST STAINING, SOUTH AND NORTH FACES, UNDER BAY 3.	3	7	7 Feet
☐ 234	Exposed Rebar	(PAR) BENT 2 CAP WEST FACE BOTTOM CORNER HAS A SPALL AND DELAMINATED AREA (2.5 FOOT X 1 FOOT X 1 INCH DEEP) WITH REBAR EXPOSED (APPROXIMATELY 25 PERCENT LOSS) AND MAP CRACKS (UP TO 1/16 INCH) WITH RUST STAINS	3	1	1 Feet
☐ 234	Cracking (RC and Other)	along the length of the cap, vertical cracks (up to 1/32 inch x full height) some extending into bottom face (full width) and map cracks (hairline) at random	2	15	Feet

General Comments

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
☐ 205	Cracking (RC and Other)	west face, map cracks (hairline) at random	2	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	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 205	Cracking (RC and Other)	northwest and southwest corners below cap, (3) delamination (4.5 foot x 1 foot) with cracks (up to 1/16 inch)	3		1	Each
☐ 205	Exposed Rebar	(PAR) west face at bottom, spall (2 foot x 8 inch x 1 inch deep) with exposed rusted rebar (approximately 25 percent loss)	3	1	1	Each
☐ 205	Delamination/Spall	East face below cap, delamination, 32 inch x 11 inch	2		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	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 205	Efflorescence/Rust Staining	(PAR) along column, vertical cracks (up to 1/8 inch x 6.5 foot) some with efflorescence and rust stains and map cracks (hairline) at random	3	1	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	36	26	10	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 215	Cracking (RC and Other)	END BENT 2 ABUTMENT THROUGHOUT ALL BAYS, VERTICAL CRACKS, UP TO 2 FOOT X 1/64 INCH	2	10		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	35	20	15	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☐ 234	Cracking (RC and Other)	END BENT 2 CAP HAS SCATTERED CRACKS THROUGHOUT ALL BAYS, UP TO TO FULL HEIGHT X 1/32 INCH	2	15		Feet

General Comments

Cap 1

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	30	0	6	24	0	Feet

General Comments

Pile 1

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

General Comments

Pile 2

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

General Comments

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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		
☐ 205	Exposed Rebar	(PAR) west face, spall/delamination (20 inch x full height x 2 inch deep) with exposed rusted rebar (approximately 25 percent loss) and cracks (up to 1/8 inch) some with efflorescence	3	1	1	Each	
☐ 205	Cracking (RC and Other)	along column, vertical cracks (up to 1/32 inch x full height) and map cracks (hairline)	2			Each	
General Comments							

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1803
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	53
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	53
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Bent 1 Expansion Joint	Standard Joint	Pourable Joint Seal	27
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1365
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 2	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing 5	Movable Bearing	Movable Bearing	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110144

Inspection Date: 09/19/2024

National Bridge Inventory Items

Item	Grade Scale	Grade	Note: Items 58,59,60,62 reflect this inspection only. For overall NBI coding grade, see cover sheet.
Item 58: Deck	0 - 9 , N	6	
Item 59: Superstructure	0 - 9 , N	4	
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: 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			
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation		N		
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C			
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	8
Snooper Time	Hours	0
Ladder, Drone, or Camera Pole Used	YES/NO	N
Bucket Truck Used	YES/NO	Y
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	Y
Portion of Structure in > 3' of water	YES/NO	N

National Bridge and NC SMU Inspection Item Details

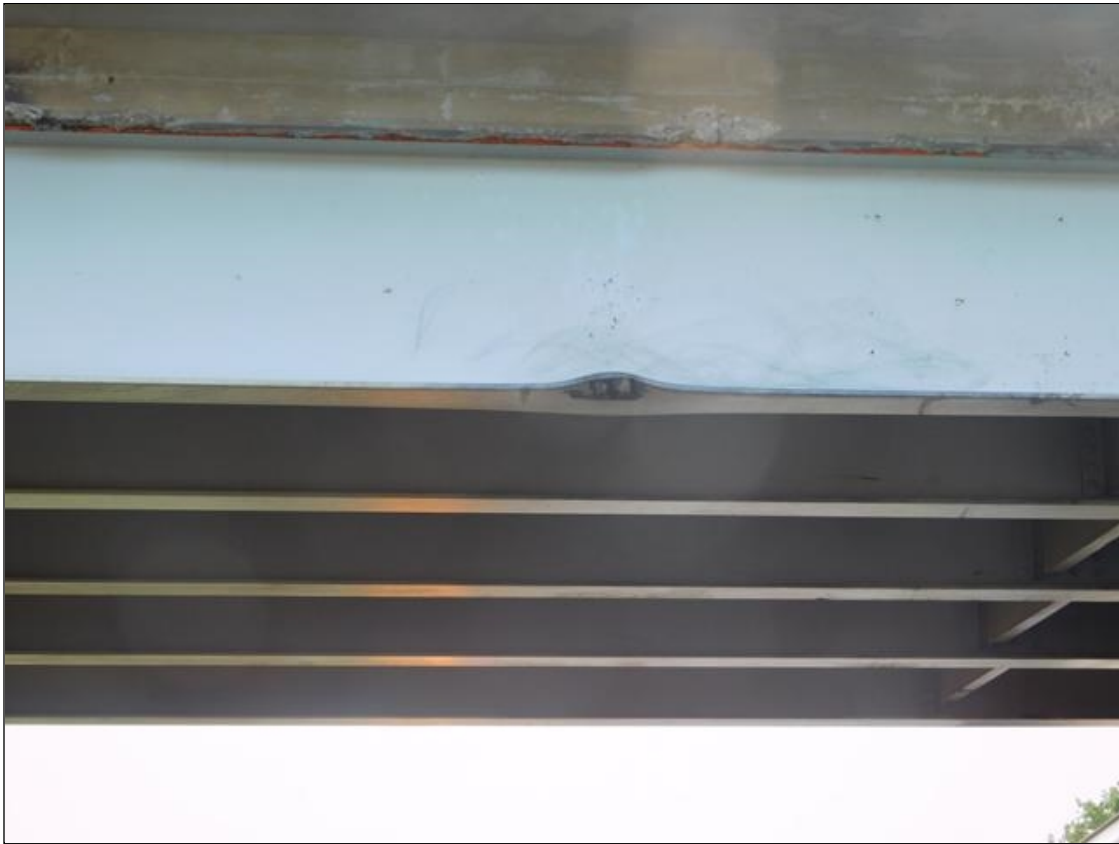
Structure Number: 110144

Inspection Date: 09/19/2024

Item	NCDOT Deck - Item 58	Grade	6	Maint Code	Qty.	0
Details	GRADE TAKEN FROM 08/10/2023 REPORT					
Item	NCDOT Superstructure - Item 59	Grade	4	Maint Code	Qty.	0
Details	GRADE LOWED DUE TO 15 FOOT OF DISTORION TO Span 2 Beam 1 AND THE BEND TO THE Bottom Flange AT THIS LOCATION					
Item	NCDOT Substructure - Item 60	Grade	5	Maint Code	Qty.	0
Details	GRADE TAKEN FROM 08/10/2023 REPORT					
Item	Priority Maintenance Issued	Grade	Y	Maint Code	Qty.	0
Details	(PAR) FOR BOW IN Span 2 Beam 1 AND BENT Bottom Flange AT SAME LOCATION					
Item	Other Equipment Used	Grade	Y	Maint Code	Qty.	0
Details	Ultrasonic Machine, Climbing Vest					



Span 2 Beam 1: Supplemental Inspection Impact Damage, Span 2 Beam 1 IS OUT OF PLUMB UP TO 5 Degrees EASTWARD AT Point of Impact WHICH IS 17 FOOT 2 INCH FROM Bent 2. IT IS OUT OF PLUMB FOR A TOTAL OF 15 FEET, 10 FOOT NORTH OF THE Point of Impact AND 5 FOOT TO THE SOUTH. (PAR)



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Span 2 Beam 1: SUPPLEMENTAL INSPECTION IMPACT DAMAGE, SPAN 2 BEAM 1 AT THE POINT OF IMPACT LOCATED 17 FOOT 2 INCH FROM BENT 2 THE BOTTOM FLANGE IS BENT UPWARD ON THE WEST SIDE. THIS IS 2 FOOT LONG X 2 INCH HIGH X 9 INCH ACROSS. THERE IS A 6.5 INCH LONG X UP TO 1/4 INCH DEEP X 5 INCH ACROSS GOUGE IN THE CENTER OF THE BENT BOTTOM FLANGE ON THE WEST SIDE. AT THE SAME LOCATION ON THE EAST SIDE THE BOTTOM FLANGE IS BENT DOWNWARD UP TO A 1/4 INCH OVER A 20 INCH LENGTH. (PAR)



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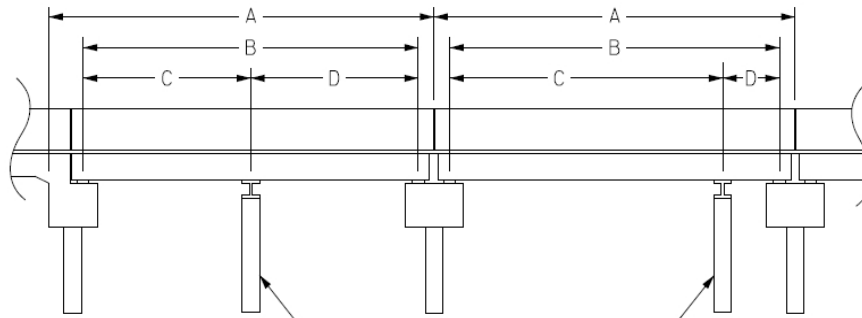
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Structure Data Worksheet

Span Profile

County: BURKE

Structure Number: 110144



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	35.330	33.167			
2	52.500	51.167			
3	52.500	51.167			
4	42.000	40.250			

Structure Number: 110144

Span: 2

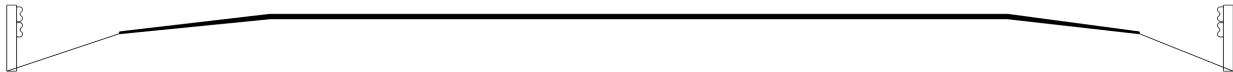
Route Name: I 40 E



Looking East

Route Number: 11000400		Route Name: I 40 E			Reference Feature: H	
Minimum Vertical Clearance 14.900 feet		Maximum Minimum Vertical Clearance 15.100 feet				
Total Horizontal Clearance 42.150 feet		Lateral Clearances: Left: 13.120 feet Right 10.470 feet				
☒ Base Highway Network		LRS Inventory Route, Sub Route Number 10040				
Milepost: 106.400	Number of Lanes: 2		ADT: 22500	Year of ADT: 2015	Percentage of Trucks: 16	
☒ National Highway System			☐ STRAHNET Highway Designator			
Functional Classification 11		Local Principal Arterial - Interstate		Direction of Traffic: 1 1 - way traffic		

Bridge Inspection Field Sketch



Roadway	19.667ft Wide	2 Paved Lanes	Looking North
Left Shoulder	7ft Wide	4ft Paved	3ft Unpaved
Right Shoulder	6ft Wide	3.5ft Paved	2.5ft Unpaved
Left Guardrail	7ft from road		
Right Guardrail	6ft from road		

MEASUREMENTS TAKEN 125' FROM END BENT 1

Title
APPROACH ROADWAY

Description
LOOKING NORTH

Structure No: 110144

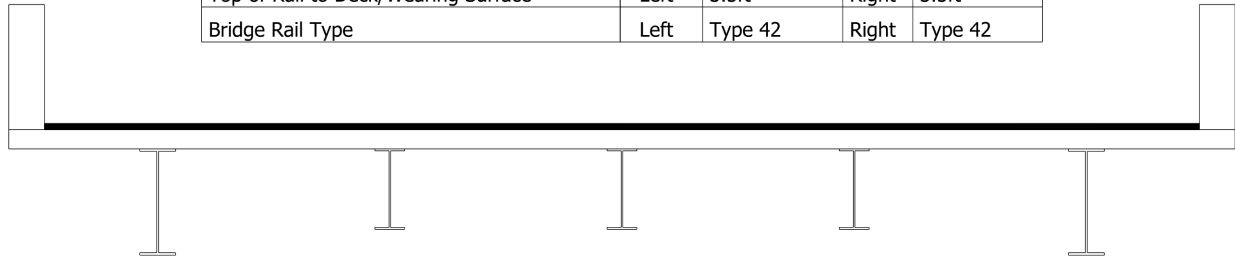
Drawn By: JCRODRIGUEZ

Date: 8/10/2023

Filename: S000930000235.wes

Bridge Inspection Field Sketch

Deck Width/Out to Out	34.333ft	Between Rails				32.5ft
Clear Roadway	26ft	Wearing Surface				2in
Median Width		Median Height				
Curb Height		Left	8in	Right	8in	
Sidewalk Width		Left	3.25ft	Right	3.25ft	
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	9in	Right	9in	
Top of Rail to Deck/Wearing Surface		Left	3.5ft	Right	3.5ft	
Bridge Rail Type		Left	Type 42	Right	Type 42	



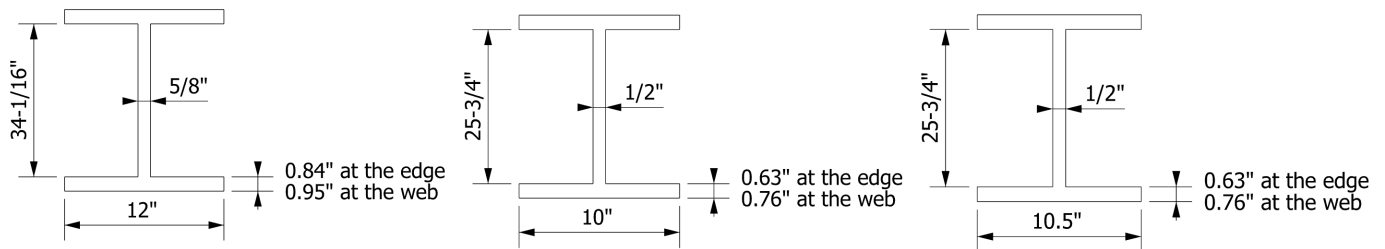
Measurements for Span #	1	All Spans Similar	
Deck Thickness	6.5in	Left Overhang	4.167ft
Top of Rail to Bottom of Beam (Avg)	7.167ft	Right Overhang	4.167ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	12in	35.68in	4.167ft	Left Edge of Deck
2	Plate Girder	10in	27in	6.5ft	Beam 1
3	Plate Girder	10in	27in	6.5ft	Beam 2
4	Plate Girder	10in	27in	6.5ft	Beam 3
5	Plate Girder	12in	35.68in	6.5ft	Beam 4

Spans 2 & 3 Beams 1-5
Spans 1 & 4 Beams 1 & 5

Span 1 Beams 2-4

Span 4 Beams 2-4



Title
TYPICAL SECTION

Description
LOOKING NORTH

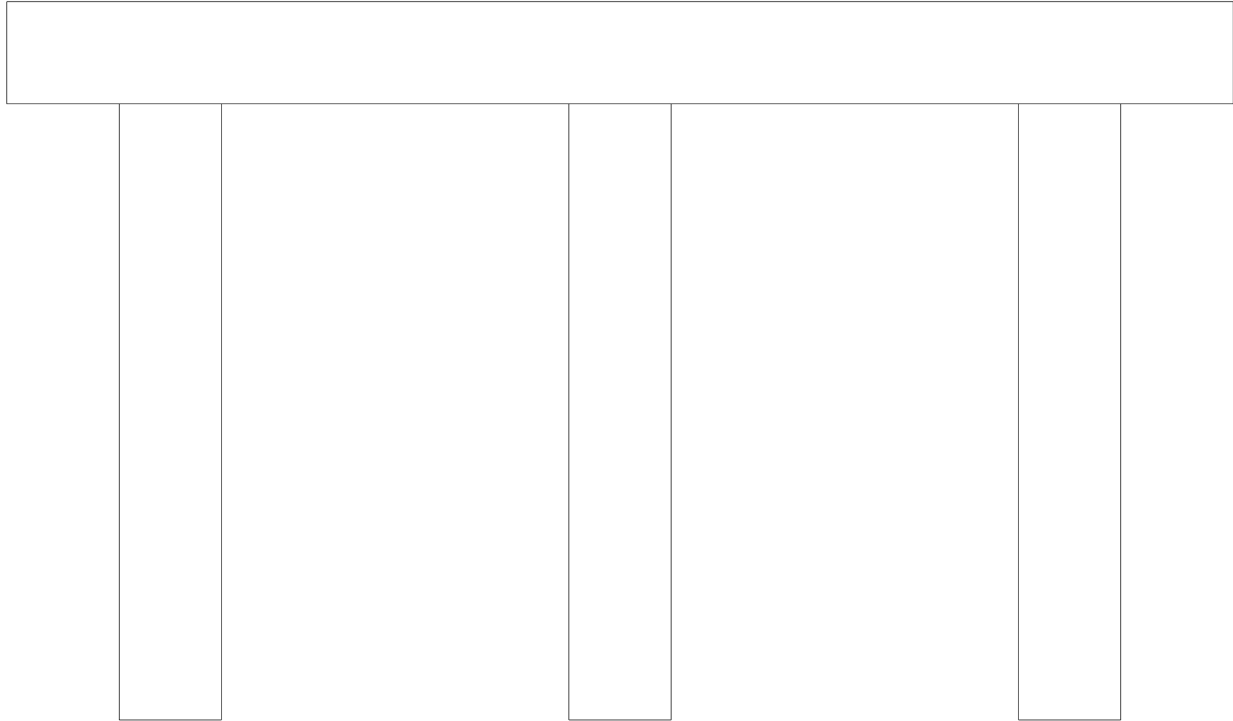
Structure No: 110144

Drawn By: JCRODRIGUEZ

Date: 8/10/2023

Filename: S000930000236.wes

Bridge Inspection Field Sketch



Caps

#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	30ft	30in	30in	2ft	1.33ft

Piles

#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4ft	Left End of Bent	30in	30in	17.25ft
2	Pile 2	Reinforced Concrete Column	11ft	Pile 1	30in	30in	17.25ft
3	Pile 3	Reinforced Concrete Column	11ft	Pile 2	30in	30in	17.25ft

Title
BENT SKETCH

Description
LOOKING NORTH

Structure No: 110144

Drawn By: JCRODRIGUEZ

Date: 8/10/2023

Filename: S000930000237.wes



Looking East