NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: partial inspection, awaiting railroad entry permit; prompt action request, sketches revised, temporary repairs to caps

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 01/21/2020

DIVISION: 13 COUNTY: BURKE STRUCTURE NUMBER: 110099 FREQUENCY: 24 MONTHS

FACILITY CARRIED: US64,70 MILE POST:

LOCATION: .6 MI.W.JCT.US64BUS

FEATURE INTERSECTED: SOUTHERN RR

LATITUDE: 35° 43' 49.84" LONGITUDE: 81° 42' 12.61"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BT1&BTS:RC CAPS/H-PILES(WID)E.BT2:RC SPILL THRU W/H-PILES

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

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

NBI GRADES: DECK 6 SUPERSTRUCTURE 4 SUBSTRUCTURE 5 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: none

west approach looking east

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

DIRECTION OF INSPECTION: W-E

DIRECTION MATCHES PLANS:

INSPECTED BY	SIGNATURE	ASSISTED BY
Mike Mills		Isaiah Chapman

IDENTIFICATION

(1) STATE NAME	NORTH CAROLINA	BRIDGE	110099
(8) STRUCTURE NUMBER (FEDERAL)			0230099
(5) INVENTORY ROUTE (ON/UNDER)	ON		121000640
(2) STATE HIGHWAY DEPARTMENT DISTRICT			13
(3) COUNTY CODE (FEDERAL)	23	(4) PLACE CODE	44400
(6) FEATURE INTERSECTED	SOUTHERN RR		
(7) FACILITY CARRIED	US64,70		
(9) LOCATION	.6 MI.W.JCT.US64BUS		
(11) MILEPOINT			0.0
(12) BASE HIGHWAY NETWORK			1
(13) LRS INVENTORY ROUTE & SUBROUTE			20064
(16) LATITUDE	35° 43' 49.84"	(17) LONGITUDE	81° 42' 12.61"
(98) BORDER BRIDGE STATE CODE		PERCENT SHARED	
(99) BORDER BRIDGE STRUCTURE NUMBER			

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN			Steel
TYPE	Stringer/Multi-beam or girder	CODE	302
(44) STRUCTURE TYPE APPROACH			
TYPE		CODE	
(45) NUMBER OF SPANS IN MAIN UNIT			5
(46) NUMBER OF SPANS IN APPROACH			0
(107) DECK STRUCTURE TYPE		CODE	1
(108)WEARING SURFACE/PROTECTIVE SYSTEM			
(A) TYPE OF WEARING SURFACE		CODE	6
(B) TYPE OF MEMBRANE		CODE	0
(C) TYPE OF DECK PROTECTION		CODE	0

AGE AND SERVICE

(27) YEAR BUILT			1955
(106) YEAR RECONSTRUCTED			1974.0000000000000
(42) TYPE OF SERVICE ON -			Highway - Pedestrian
OFF -		Railroad CODE	52
(28) LANES ON STRUCTURE	5	LANES UNDER STRUCTURE	0
(29) AVERAGE DAILY TRAFFIC			19000
(30) YEAR OF ADT	2015	(109) TRUCK ADT PCT	12
(19) BYPASS OR DETOUR LENGTH			3.0

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN			42.0
(49) STRUCTURE LENGTH			193.0
(50) CURB OR SIDEWALK: LEFT	5.0	RIGHT	3.0
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB			64.0
(52) DECK WIDTH OUT TO OUT			74.3
(32) APPROACH ROADWAY WITH (W/ SHOULDERS)			64.0
(33) BRIDGE MEDIAN		No median CODE	0
(34) SKEW	53	(35) STRUCTURE FLARED	0
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			64.0
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9
(54) MIN VERT UNDERCLEAR: REFERENCE		R	0.0
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE		R	0.0
(56) MIN LAT UNDERCLEARANCE LT:			0.0

NAVIGATION DATA

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

SUFFICIENCY RATING	44.34
STATUS =	Structurally Deficient

CLASSIFICATION

		CODE
(112) NBIS BRIDGE SYSTEM		YES
(104) HIGHWAY SYSTEM	Inventory Route is on NHS	1
(26) FUNCTIONAL CLASS	Urban Other Principal Arterial	14
(100) STRAHNET HIGHWAY	Not a STRAHNET Route	0
(101) PARALLEL STRUCTURE	No parallel structure exists	N
(102) DIRECTION OF TRAFFIC	2-way traffic	2
(103) TEMPORARY STRUCTURE		
(110) DESIGNATED NATIONAL NETWORK - on natiional network for trucks		1
(20) TOLL	On Free Road	3
(21) MAINT -		01
(22) OWNER -		01
(37) HISTORICAL SIGNIFICANCE -		5

CONDITION

	CODE
(58) DECK	6
(59) SUPERSTRUCTURE	4
(60) SUBSTRUCTURE	5
(61) CHANNEL & CHANNEL PROTECTION	N
(62) CULVERTS	N

LOAD RATING AND POSTING

		CODE
(31) DESIGN LOAD	H 20 + Mod	6
(63) OPERATING RATING METHOD -	Load Factor	1
(64) OPERATING RATING -	HS-31	59
(65) INVENTORY RATING METHOD -		1
(66) INVENTORY RATING	HS-18	35
(70) BRIDGE POSTING	No Posting Required	5
(41) STRUCTURE OPEN, POSTED, OR CLOSED		A
DESCRIPTION	Open, no restriction	

APPRAISAL

	CODE
(67) STRUCTURAL EVALUATION	4
(68) DECK GEOMETRY	2
(69) UNDERCLEARANCES, VERT & HORIZ	N
(71) WATERWAY ADEQUACY	4
(72) APPROACH ROADWAY ALIGNMENT	2
(36) TRAFFIC SAFETY FEATURES	0110
(113) SCOUR CRITICAL BRIDGES	N

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK	CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT	
(94) BRIDGE IMPROVEMENT COST	
(95) ROADWAY IMPROVEMENT COST	
(96) TOTAL PROJECT COST	
(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(114) FUTURE ADT 38,000	YEAR OF FUTURE ADT 2025

INSPECTION

(90) INSPECTION DATE	01/20	(91) FREQUENCY	24
(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE	
A) FRACTURE CRIT DETAIL		A)	
B) UNDERWATER INSP		B)	
C) OTHER SPECIAL INSP		C)	
SCOUR			

Structure Number 110099 County BURKE Run Date 03/11/2020

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
3	RAILROAD	80000000											21.3	7.4		4			☐	☐

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 32.5000 Skew 143.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Aluminum Bridge Rail	Metal Bridge Railing	33 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2416 Square Feet		
1	Concrete and Metal Railing	Other Bridge Railing	33 Feet		
11	Movable Bearing	Movable Bearing	11 Each	Legacy Red Lead Primer Systems with Various Topcoats	11
11	Fixed Bearing	Fixed Bearing	11 Each	Legacy Red Lead Primer Systems with Various Topcoats	11
11	Plate Girder	Steel Open Girder/Beam	352 Feet	Legacy Red Lead Primer Systems with Various Topcoats	2750
1	Asphalt Wearing Surface	Wearing Surface	2080 Square Feet		

Span Number 2 Span Length 32.5000 Skew 143.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	2080 Square Feet		
1	Concrete and Metal Railing	Other Bridge Railing	33 Feet		
11	Plate Girder	Steel Open Girder/Beam	363 Feet	Legacy Red Lead Primer Systems with Various Topcoats	3025
11	Fixed Bearing	Fixed Bearing	11 Each	Legacy Red Lead Primer Systems with Various Topcoats	11
1	Aluminum Bridge Rail	Metal Bridge Railing	33 Feet		
11	Movable Bearing	Movable Bearing	11 Each	Legacy Red Lead Primer Systems with Various Topcoats	11
1	Standard Joint	Pourable Joint Seal	124 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2416 Square Feet		

Span Number 3 Span Length 42.5000 Skew 143.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	124 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	3160 Square Feet		

Superstructure Build Details

1	Aluminum Bridge Rail	Metal Bridge Railing	43	Feet		
11	Movable Bearing	Movable Bearing	11	Each	Legacy Red Lead Primer Systems with Various Topcoats	11
1	Concrete and Metal Railing	Other Bridge Railing	43	Feet		
11	Plate Girder	Steel Open Girder/Beam	473	Feet	Legacy Red Lead Primer Systems with Various Topcoats	4400
1	Asphalt Wearing Surface	Wearing Surface	2720	Square Feet		
11	Fixed Bearing	Fixed Bearing	11	Each	Legacy Red Lead Primer Systems with Various Topcoats	11

Span Number 4 Span Length 42.5000 Skew 143.0000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Aluminum Bridge Rail	Metal Bridge Railing	43	Feet		
11	Movable Bearing	Movable Bearing	11	Each	Legacy Red Lead Primer Systems with Various Topcoats	11
1	Reinforced Concrete Deck	Reinforced Concrete Deck	3160	Square Feet		
11	Plate Girder	Steel Open Girder/Beam	473	Feet	Legacy Red Lead Primer Systems with Various Topcoats	4400
1	Concrete and Metal Railing	Other Bridge Railing	43	Feet		
1	Asphalt Wearing Surface	Wearing Surface	2720	Square Feet		
1	Standard Joint	Pourable Joint Seal	124	Feet		
11	Fixed Bearing	Fixed Bearing	11	Each	Legacy Red Lead Primer Systems with Various Topcoats	11

Span Number 5 Span Length 42.5000 Skew 143.0000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
11	Fixed Bearing	Fixed Bearing	11	Each	Legacy Red Lead Primer Systems with Various Topcoats	11
1	Asphalt Wearing Surface	Wearing Surface	2720	Square Feet		
11	Plate Girder	Steel Open Girder/Beam	462	Feet	Legacy Red Lead Primer Systems with Various Topcoats	4290
1	Concrete and Metal Railing	Other Bridge Railing	43	Feet		
1	Standard Joint	Pourable Joint Seal	124	Feet		

Superstructure Build Details

11	Movable Bearing	Movable Bearing	11	Each	Legacy Red Lead Primer Systems with Various Topcoats	11
1	Reinforced Concrete Deck	Reinforced Concrete Deck	3160	Square Feet		
1	Aluminum Bridge Rail	Metal Bridge Railing	43	Feet		

Structure Element Scoring

Structure Number: 110099

Inspection Date 1/21/2020

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	14312	13455	802	55	0
107	0	Steel Open Girder/Beam	Beam	2123	1869	127	60	67
515	107	Steel Protective Coating	Beam	18865	18073	375	56	361
204	0	Prestressed Concrete Column	Piles and Columns	1	0	0	1	0
215	0	Reinforced Concrete Abutment	Abutments	260	220	31	9	0
225	0	Steel Pile	Piles and Columns	47	40	1	6	0
515	225	Steel Protective Coating	Piles and Columns	3904	3904	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	16	13	0	3	0
234	0	Reinforced Concrete Pier Cap	Caps	666	550	21	95	0
301	0	Pourable Joint Seal	Expansion Joints	496	431	0	20	45
311	0	Movable Bearing	Bearing Device	55	29	0	12	14
515	311	Steel Protective Coating	Bearing Device	55	30	0	0	25
313	0	Fixed Bearing	Bearing Device	55	38	2	13	2
515	313	Steel Protective Coating	Bearing Device	55	38	0	0	17
330	0	Metal Bridge Railing	Bridge Rail	195	0	195	0	0
333	0	Other Bridge Railing	Bridge Rail	195	0	156	23	16
510	0	Wearing Surface	Wearing Surfaces	12320	11700	0	620	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110099 Inspection Date: 01/21/2020

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	753 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	110 Square Feet
3314	Steel Open Girder/Beam	Corrosion	139 Feet
3350	Reinforced Concrete Abutment	Efflorescence/Rust Staining	7 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	3 Feet
3354	Steel Pile	Corrosion	3 Each
3348	Prestressed Concrete Pile	Delamination/Spall	2 Each
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	73 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	160 Feet
3310	Pourable Joint Seal	Leakage	20 Feet
3310	Pourable Joint Seal	Seal Adhesion	28 Feet
3310	Pourable Joint Seal	Seal Damage	17 Feet
3334	Movable Bearing	Corrosion	15 Each
3334	Movable Bearing	Connection	1 Each
3334	Fixed Bearing	Corrosion	6 Each
3322	Metal Bridge Railing	Damage	199 Feet
3318	Other Bridge Railing	Delamination/Spall	29 Feet
3318	Other Bridge Railing	Damage	16 Feet
2816	Wearing Surface	Crack (Wearing Surface)	620 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	345 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	470 Square Feet

Element Structure Maintenance Quantities

Structure Number: 110099 Inspection Date 01/21/2020

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	10	260	0	9	31	220
Beam	3314	Maintenance Steel Superstructure Components	139	2123	67	60	127	1869
Beam	3342	Clean and Paint Steel	792	18865	361	56	375	18073
Bearing Device	3334	Bridge Bearing	41	110	16	25	2	67
Bearing Device	3342	Clean and Paint Steel	42	110	42	0	0	68
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	45	195	16	23	156	0
Bridge Rail	3322	Maintenance of Steel Bridge Rail	199	195	0	0	195	0
Caps	3348	Maintenance of Concrete Substructure	233	666	0	95	21	550
Deck	3326	Maintenance of Concrete Deck	863	14312	0	55	802	13455
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	65	496	45	20	0	431
Piles and Columns	3342	Clean and Paint Steel	0	3904	0	0	0	3904
Piles and Columns	3348	Maintenance of Concrete Substructure	5	17	0	4	0	13
Piles and Columns	3354	Maintenance of Steel Substructure Components	3	47	0	6	1	40
Wearing Surfaces	2816	Asphalt Surface Repair	620	12320	0	620	0	11700

Priority Actions Request

Structure Number 110099

Span1

3326 Deck Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	14	Span 1 Deck: (PAR) right side of beam 11 haunch, at bent 2, spall (14' x 6" x 5") with exposed rusted rebar

3318 Right Bridge Rail Concrete and Metal Railing

Priority Level	Defect Type	Quantity	Defect Description
2	Damage	2	Span 1 Right Bridge Rail: (PAR) at midspan, impact damage (2'), broken at base

3334 Beam 7 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust
2	Corrosion	11	Span 1 Beam 7: (PAR) at bent 1, bottom flange, corrosion with section loss (0.6" average remaining x 11')
2	Corrosion	17	Span 1 Beam 7: (PAR) at bent 1, corrosion with section loss: web, corrosion hole at bearing (12" x 3"); bottom of web, (1/8" remaining x 4" x 11'), (5/16" remaining x 1" x next 6')

3334 Beam 8 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust
2	Corrosion	2	Span 1 Beam 8: (PAR) at bent 1 end diaphragm, web, corrosion with section loss (1/16" remaining x 16" x 10"); bottom flange, rust scale

3334 Beam 9 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust
2	Corrosion	2	Span 1 Beam 9: (PAR) at bent 1 end diaphragm, corrosion with section loss: web, (1/8" remaining x 16" x 8") with corrosion hole (9" x 1/2")

3334 Beam 10 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust
2	Corrosion	1	Span 1 Beam 10: (PAR) at bent 1, left face of web, corrosion with section loss (3/8" remaining x 7" x 8")

3334 Beam 11 Plate Girder

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

Priority Actions Request

Structure Number 110099

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 11 Far Bearing 11: (PAR) bearing frozen with pack rust
2	Corrosion	1	Span 1 Beam 11 Near Bearing 11: (PAR) corrosion with section loss (1/8" loss) at plate edges
2	Corrosion	1	Span 1 Beam 11: (PAR) 8' from bent 1, at utility hanger, right face of web, corrosion with section loss (1/8" remaining x 6" x 6")
2	Corrosion	3	Span 1 Beam 11: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at end diaphragm, (1/8" remaining x 3" wide x 19")
2	Corrosion	1	Span 1 Beam 11: (PAR) at end bent 1, behind bearing, corrosion with section loss (0.6" average remaining x 1')
2	Corrosion	1	Span 1 Beam 11: (PAR) at end bent 1, bottom of web, left face, corrosion with section loss (1/4" remaining x 8" x 6")

Span2

3326 Deck Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	10	Span 2 Deck: (PAR) bent 1 end diaphragm, bay 7, failed previous repair (10' x 10" x 4") with section loss on rebar (3/8" remaining)

3334 Beam 7 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 7 Near Bearing: (PAR) pack rust with 1/8" section loss on edge of plate
2	Corrosion	3	Span 2 Beam 7: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at bearing, (1/16" remaining x 1' x 16" high) with corrosion hole (2" x 1")

3314 Beam 8 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 8: (PAR) at bent 1, web at end diaphragm, corrosion with section loss (5/16" remaining x 10" x 7")

3314 Beam 9 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 9: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.7" average remaining x 1.5'); web, at end diaphragm, (1/16" remaining x 16" x 4") with corrosion hole (1.5" x 1/2")

3314 Beam 10 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 10: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (1/16" remaining x 18" x 7")

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

Priority Actions Request

Structure Number 110099

3314 Beam 11 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 11: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (0.25" remaining x 16" x 2")

Span 4

3334 Beam 7 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust
2	Corrosion	15	Span 4 Beam 7: (PAR) at bent 4, corrosion with section loss: web, at bearing, (3/8" remaining x 16" x 12"); bottom of web, (1/4" remaining x 2" x approximately 15'); bottom flange, (0.7" average remaining x 16")

3334 Beam 8 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust
2	Corrosion	1	Span 4 Beam 8: (PAR) at bent 4, web at end diaphragm, (3/8" remaining x 6" x 4")

3334 Beam 9 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust
2	Corrosion	2	Span 4 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 1.5' x up to 12")

3334 Beam 10 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust

3314 Beam 11 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 11: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 10" x 4")

Span5

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

Priority Actions Request

Structure Number 110099

3318 Right Bridge Rail — Concrete and Metal Railing

Priority Level	Defect Type	Quantity	Defect Description
2	Damage	14	Span 5 Right Bridge Rail: (PAR) at bent 4, impact damage (14') with multiple broken posts and exposed rusted rebar

3334 Beam 7 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 7 Near Bearing: (PAR) bearing frozen with pack rust and 1/8" section loss at edge of plate
2	Corrosion	4	Span 5 Beam 7: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.5" average remaining x 2.5'); web at end diaphragm, (1/4" remaining x 14" x 16"); bottom of web, (5/16" remaining x 3" x 4')

3334 Beam 8 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 8 Near Bearing 8: (PAR) bearing frozen with pack rust

3334 Beam 9 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 9 Near Bearing 9: (PAR) bearing frozen with pack rust
2	Corrosion	2	Span 5 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 14" x 5"); bottom flange, pitting (up to 1/16" x 1.5')

3334 Beam 10 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 10 Near Bearing 10: (PAR) bearing frozen with pack rust

3334 Beam 11 — Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 11 Near Bearing 11: (PAR) bearing frozen with pack rust
2	Corrosion	2	Span 5 Beam 11: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.55" average remaining x 2'); web at end diaphragm, (1/16" remaining x 15" x 5")

Bent 1

3348 Cap 1 — Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description

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

Priority Actions Request

Structure Number 110099

2	Delamination/Spall	5	Bent 1 Cap 1: (PAR) span 1 face, below bay 9, bottom corner, spall (5' x 8" x 3") with exposed rusted rebar

Bent 4

3348 Cap 1 Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	120	Bent 4 Cap 1: (PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face

General Comments and Misc Items

General Comments and Misc Items General Comments and Misc Items

Priority Level	Defect Type	Quantity	Defect Description
1		1	(PAR) northeast guardrail attachment, (1) bolt missing
1		2	(PAR) northeast guardrail, near end bent 2, (2) spacer blocks twisted
2		1	(PAR) northwest guardrail attachment not connected to bridge rail
2		1	(PAR) right overhang, utility hanger, 7' from end bent 1, bottom flange of bracket at beam, corrosion with section loss (0.2" average remaining x 3")
1		15	(PAR) southeast guardrail, at center, impact damage (15')
1		3	(PAR) southwest guardrail termination, impact damage (3')
2		1	(PAR) span 1 utility, right overhang, 6' from bent 1, section loss on clamp rods (5/8" remaining); and bottom flange of bracket at beam, corrosion hole (1.5" diameter)

Element Condition and Maintenance Data

Structure Number: 110099 Inspection Date: 01/21/2020

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,416	2,372	18	26	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	bent 1 end diaphragm, bay 9 at beam 9, spall (12" x 4" x 1") with exposed rusted rebar	3		1	Square Feet
12	Delamination/Spall	bent 1 end diaphragm, bay 9. at beam 10, spall (12" x 6" x 6") with exposed rusted rebar	3		1	Square Feet
12	Delamination/Spall	(PAR) right side of beam 11 haunch, at bent 2, spall (14' x 6" x 5") with exposed rusted rebar	3	14	14	Square Feet
12	Delamination/Spall	along right drip edge, multiple spalls (up to 2' x 4" x 1/2") with exposed rusted rebar	3	12	12	Square Feet
12	Delamination/Spall	bent 1 end diaphragm, bay 7 at beam 8, spall (16" x 18" x 2") with exposed rusted rebar	3		2	Square Feet
12	Delamination/Spall	bent 1 end diaphragm, bay 8 at beam 9, spall (30" x 8" x 4") with exposed rusted rebar, similar at beam 8	3		5	Square Feet
12	Efflorescence/Rust Staining	underside of deck at end bent 1, bay 5, diagonal crack (hairline x 6') with efflorescence, similar bays 2 and 4	2	18		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	2,080	1,970	0	110	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	at random, transverse cracks (up to 1/8" x 3')	3	10	10	Square Feet
510	Crack (Wearing Surface)	UP TO 0.25" TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE OVER END BENT 1	3	100	100	Square Feet

General Comments

Span 1 Left Bridge Rail

Aluminum Bridge Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	33	0	33	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Damage	along edge of sidewalk, map cracks (hairline x 1' x full length), similar at concrete end post	2	33	33	Feet

General Comments

Span 1 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	33	0	25	6	2	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	(PAR) at midspan, impact damage (2'), broken at base	4	2	2	Feet
333	Delamination/Spall	rail posts at random, (6) spalls (up to 6" x 2" x 1") with exposed rusted rebar	3	6	6	Feet
333	Cracking	throughout sidewalk and end post, map cracks (hairline up to 1/32")	2	25		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	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Connection	left anchor bolt nut missing	3	1	1	Each

General Comments

Span 1 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	32	5	0	10	17	Feet
515	Steel Protective Coating	250	150	0	0	100	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, bottom flange, corrosion with section loss (0.6" average remaining x 11')	4		11	Feet
107	Corrosion	(PAR) at bent 1, corrosion with section loss: web, corrosion hole at bearing (12" x 3"); bottom of web, (1/8" remaining x 4" x 11'), (5/16" remaining x 1" x next 6')	4	17	17	Feet
107	Corrosion	at end bent 1, bottom of web, corrosion with section loss (7/16" remaining x 4" x 10')	3	10	10	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	100	100	Square Feet

General Comments

Span 1 Far Bearing 7

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 1 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	32	0	30	0	2	Feet
515	Steel Protective Coating	250	212	30	0	8	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1 end diaphragm, web, corrosion with section loss (1/16" remaining x 16" x 10"); bottom flange, rust scale	4	2	2	Feet
107	Corrosion	bottom flange and bottom of web, freckled rust (full length)	2	28		Feet
107	Corrosion	at end bent 1, bottom of flange and bottom of web, rust scale (2')	2	2		Feet
515	Effectiveness (Steel Protective Coatings)	rust scale and section loss	4	8	8	Square Feet
515	Effectiveness (Steel Protective Coatings)	freckled rust	2	30	30	Square Feet

General Comments

Span 1 Far Bearing 8

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 1 Beam 9

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	32	0	29	1	2	Feet
515	Steel Protective Coating	250	217	0	30	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1 end diaphragm, corrosion with section loss: web, (1/8" remaining x 16" x 8") with corrosion hole (9" x 1/2")	4	2	2	Feet
107	Corrosion	at end bent 1, bottom of web, corrosion with section loss (7/16" remaining x 3" x 1')	3	1	1	Feet
107	Corrosion	bottom flange, surface rust (full length)	2	29		Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	3	3	Square Feet
515	Effectiveness (Steel Protective Coatings)	surface rust	3	30	30	Square Feet

General Comments

Span 1 Far Bearing 9

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 1 Beam 10

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	32	11	20	0	1	Feet
515	Steel Protective Coating	250	228	20	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, left face of web, corrosion with section loss (3/8" remaining x 7" x 8")	4	1	1	Feet
107	Corrosion	freckled rust	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet
515	Peeling/Bubbling/Crack ing (steel Protective Coatings)	at random, paint peeling with freckled rust	2	20	20	Square Feet

General Comments

Span 1 Far Bearing 10

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 1 Beam 11

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	32	0	26	0	6	Feet
515	Steel Protective Coating	250	199	0	26	25	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) 8' from bent 1, at utility hanger, right face of web, corrosion with section loss (1/8" remaining x 6" x 6")	4	1	1	Feet
107	Corrosion	(PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at end diaphragm, (1/8" remaining x 3" wide x 19")	4	3	3	Feet
107	Corrosion	(PAR) at end bent 1, behind bearing, corrosion with section loss (0.6" average remaining x 1')	4	1	1	Feet
107	Corrosion	(PAR) at end bent 1, bottom of web, left face, corrosion with section loss (1/4" remaining x 8" x 6")	4	1	1	Feet
107	Corrosion	both flanges, below deck haunch spall, rust scale with pitting (up to 1/16")	2			Feet
107	Corrosion	along bottom flange, surface rust (full length)	2	26		Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss and rust scale	4	25	25	Square Feet
515	Effectiveness (Steel Protective Coatings)	surface rust	3	26	26	Square Feet

General Comments

Span 1 Near Bearing 11

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	(PAR) corrosion with section loss (1/8" loss) at plate edges	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 1 Far Bearing 11

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,416	1,659	757	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	bent 1 end diaphragm, bay 8, underside, (4) spalls (up to 7" diameter x 1") with exposed rusted rebar	3		4	Square Feet
12	Delamination/Spall	bent 1 end diaphragm, bay 9, at beam 10, spall (18" x 4" x 2") with exposed rusted rebar	3		2	Square Feet
12	Delamination/Spall	(PAR) bent 1 end diaphragm, bay 7, failed previous repair (10' x 10" x 4") with section loss on rebar (3/8" remaining)	3		10	Square Feet
12	Delamination/Spall	bent 1 end diaphragm, bay 10, at beam 10, spall (1' x 8" x 2") with exposed rusted rebar	3		1	Square Feet
12	Delamination/Spall	bent 1 end diaphragm, bay 10, at beam 11, spall (6' x 7" x 2") with exposed rusted rebar	3		6	Square Feet
12	Delamination/Spall	bent 1 end diaphragm, bay 9, (2) spalls (up to 3.5' x 8" x 3") with exposed rusted rebar	3		4	Square Feet
12	Cracking (RC and Other)	underside at bent 4, bays 9 and 10, multiple transverse cracks (hairline up 1/32" x 7')	2	750	750	Square Feet
12	Efflorescence/Rust Staining	underside, bay 5, at midspan, transverse crack (hairline x 7') with efflorescence	2	7		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	2,080	1,880	0	200	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	over bent 1, transverse crack (up to 1/4" x 100')	3	100	100	Square Feet
510	Crack (Wearing Surface)	UP TO 0.5" TRANSVERSE CRACKS OVER BENT 2	3	100	100	Square Feet

General Comments

Span 2 Left Bridge Rail

Aluminum Bridge Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	33	0	33	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Damage	along edge of sidewalk, map cracks (hairline x 1' x full length)	2	33	33	Feet

General Comments

Span 2 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	33	0	33	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	rail posts at random, (3) spalls (up to 5" diameter x 1/2") with exposed rusted rebar	2		3	Feet
333	Cracking	throughout sidewalk and end post, map cracks (hairline up to 1/32")	2			Feet
333	Deterioration (Other)	throughout sidewalk and rail, scale with secure aggregate	2	33		Feet

General Comments

Span 2 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	12	0	18	3	Feet
515	Steel Protective Coating	275	235	0	0	40	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at bearing, (1/16" remaining x 1' x 16" high) with corrosion hole (2" x 1")	4	3	3	Feet
107	Corrosion	BEAM 7 SPAN 2 AT BENT 2: 1' X 1' AREA OF SECTION LOSS TO WEB WITH 7/16" REMAINING AND BOTTOM FLANGE WITH 11/16" REMAINING FOR 2'	3	2	2	Feet
107	Corrosion	BEAM 7 SPAN 2 AT BENT 2: SECTION LOSS TO BOTTOM RIGHT FLANGE WITH 11/16" REMAINING FOR 16'	3	16	16	Feet
515	Effectiveness (Steel Protective Coatings)	rust scale and section loss	4	40	40	Square Feet

General Comments

Span 2 Near Bearing 7

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	(PAR) pack rust with 1/8" section loss on edge of plate	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 2 Far Bearing 7

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8 on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 2 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	32	0	0	1	Feet
515	Steel Protective Coating	275	223	50	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, web at end diaphragm, corrosion with section loss (5/16" remaining x 10" x 7")	4	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	2	2	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	50	50	Square Feet

General Comments

Span 2 Near Bearing 8

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	pack rust	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 2 Far Bearing 8

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8 on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 2 Beam 9

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	31	0	0	2	Feet
515	Steel Protective Coating	275	207	60	0	8	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, corrosion with section loss: bottom flange, (0.7" average remaining x 1.5'); web, at end diaphragm, (1/16" remaining x 16" x 4") with corrosion hole (1.5" x 1/2")	4	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	8	8	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	60	60	Square Feet

General Comments

Span 2 Near Bearing 9

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	pack rust	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 2 Far Bearing 9

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8 on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 2 Beam 10

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	31	0	0	2	Feet
515	Steel Protective Coating	275	205	60	0	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, corrosion with section loss: web at end diaphragm, (1/16" remaining x 18" x 7")	4	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	10	10	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	60	60	Square Feet

General Comments

Span 2 Near Bearing 10

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	pack rust	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 2 Far Bearing 10

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8 on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 2 Beam 11

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	18	0	13	2	Feet
515	Steel Protective Coating	275	250	0	0	25	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, corrosion with section loss: web at end diaphragm, (0.25" remaining x 16" x 2")	4	2	2	Feet
107	Corrosion	at bent 1, bottom flange, corrosion with section loss (0.7" average remaining x 15')	3	13	13	Feet
515	Effectiveness (Steel Protective Coatings)	rust scale and section loss	4	25	25	Square Feet

General Comments

Span 2 Near Bearing 11

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	pack rust	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 2 Far Bearing 11

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8 on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 2 Bent 1 Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	124	112	0	0	12	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Seal Adhesion	left sidewalk, joint material separated with debris and vegetation	4	7	7	Feet
301	Seal Damage	at right sidewalk, joint material missing/separated (5') with debris and vegetation	4	5	5	Feet

General Comments

Span 3 Left Bridge Rail

Aluminum Bridge Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	43	0	43	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Damage	along edge of sidewalk, map cracks (hairline x 1' x full length)	2	43	43	Feet

General Comments

Span 3 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	43	0	33	10	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	rail posts at random, (10) spalls (up to 16" x 2" x 1/2") with exposed rusted rebar	3	10	10	Feet
333	Cracking	sidewalk and rail at random, map cracks (hairline)	2	10		Feet
333	Distortion	throughout sidewalk and rail, scale with secure aggregate	2	23		Feet

General Comments

Span 3 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	41	0	2	0	Feet
515	Steel Protective Coating	400	395	0	0	5	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	BEAM 7 SPAN 3 AT BENT 2: SECTION LOSS TO BOTTOM	3	2	2	Feet

515	Effectiveness (Steel Protective Coatings)	FLANGE WITH 11/16" REMAINING FOR 2' PAINT FAILURE IN AREAS OF SECTION LOSS	4	5	5	Square Feet

General Comments

Span 3 Near Bearing 7

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Far Bearing 7

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Near Bearing 8

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Far Bearing 8

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Beam 9

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	41	0	2	0	Feet
515	Steel Protective Coating	400	390	0	0	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	BEAM 9 SPAN 3 AT BENT 2: SECTION LOSS TO BOTTOM FLANGE WITH 11/16" REMAINING AND BOTTOM 10" OF WEB WITH 7/16" REMAINING FOR 2'	3	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT FAILURE IN AREAS OF SECTION LOSS	4	10	10	Square Feet

General Comments

Span 3 Near Bearing 9

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Far Bearing 9

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Near Bearing 10

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Far Bearing 10

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Near Bearing 11

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Far Bearing 11

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	

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 3 Bent 2 Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	124	112	0	0	12	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Seal Adhesion	left sidewalk, joint material separated with debris and vegetation	4	7	7	Feet
301	Seal Damage	at right sidewalk, joint material missing/separated (5') with debris and vegetation	4	5	5	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	3,160	3,133	0	27	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	(PAR) at bent 4, right side of beam 11 haunch, spall (25' x 5" x 5") with exposed rusted rebar	3	25	25	Square Feet
12	Delamination/Spall	bent 4 end diaphragm, bay 7, underside, multiple spalls (up to 8" x 6" x 1"); similar bays 8, 9 and 10	3		10	Square Feet
12	Delamination/Spall	underside of right overhang at bent 4, (2) spalls (8" diameter x 1") with exposed rusted rebar	3	2	2	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	2,720	2,620	0	100	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	over bent 3, transverse crack (up to 1/4" x 100')	3	100	100	Square Feet

General Comments

Span 4 Left Bridge Rail

Aluminum Bridge Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	43	0	43	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Damage	at bent 4, bottom rail, impact damage with gouges (1/8" deep x 4')	2		4	Feet
330	Damage	along edge of sidewalk, map cracks (hairline x 1' x full length)	2	43	43	Feet

General Comments

Span 4 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	43	0	39	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	rail posts at random, (4) spalls (up to 16" x 1" x 1/2") with exposed rusted rebar	3	4	4	Feet
333	Cracking	throughout sidewalk and end post, map cracks (hairline up to 1/32")	2	39		Feet
333	Deterioration (Other)	throughout sidewalk and rail, scale with secure aggregate	2			Feet

General Comments

Span 4 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	28	0	0	15	Feet
515	Steel Protective Coating	400	370	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 4, corrosion with section loss: web, at bearing, (3/8" remaining x 16" x 12"); bottom of web, (1/4" remaining x 2" x approximately 15'); bottom flange, (0.7" average remaining x 16")	4	15	15	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	30	30	Square Feet

General Comments

Span 4 Near Bearing 7

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 4 Far Bearing 7

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 4 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	42	0	0	1	Feet
515	Steel Protective Coating	400	379	20	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 4, web at end diaphragm, (3/8" remaining x 6" x 4")	4	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	20	20	Square Feet

General Comments

Span 4 Near Bearing 8

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 4 Far Bearing 8

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 4 Beam 9

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	41	0	0	2	Feet
515	Steel Protective Coating	400	360	20	0	20	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 1.5' x up to 12")	4	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	rust scale and section loss	4	20	20	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	20	20	Square Feet

General Comments

no ladder access to left face

Span 4 Near Bearing 9

Fixed Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 4 Far Bearing 9

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 4 Beam 10

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	42	1	0	0	Feet
515	Steel Protective Coating	400	359	40	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	at bent 4, web at end diaphragm, rust scale with pitting (up to 1/16")	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	40	40	Square Feet

General Comments

Span 4 Near Bearing 10

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 4 Far Bearing 10

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 4 Beam 11

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	43	8	20	14	1	Feet
515	Steel Protective Coating	400	350	20	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 10" x 4")	4	1	1	Feet
107	Corrosion	2020 no ladder access to verify section remaining, previously noted as: BEAM 11 SPAN 4 AT BENT 4: SECTION LOSS TO BOTTOM LEFT FLANGE WITH 11/16" REMAINING AND BOTTOM 4" OF WEB WITH 7/16" REMAINING FOR 15'	3	14	15	Feet
107	Corrosion	midspan at utility connection, rust scale (no ladder access to verify remaining section)	2			Feet
107	Corrosion	top and bottom flanges, rust scale (20')	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	rust scale and section loss	4	30	30	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	20	20	Square Feet

General Comments

Span 4 Near Bearing 11

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

General Comments

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

Span 4 Far Bearing 11

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	pack rust	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 4 Bent 3 Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	124	115	0	0	9	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Seal Adhesion	left sidewalk, joint material separated with debris and vegetation	4	7	7	Feet
301	Seal Damage	at right sidewalk, joint material missing (2') with debris and vegetation	4	2	2	Feet

General Comments

Span 5 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	3,160	3,131	27	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	bent 4 end diaphragm, bay 10, at beam 11, spall (18" x 3" x 4") with exposed rusted rebar	3		2	Square Feet
12	Delamination/Spall	bent 4 end diaphragm, bay 7 at beam 7, spall (2' x 18" x 2") with exposed rusted rebar	3		2	Square Feet
12	Delamination/Spall	bent 4 end diaphragm, bay 9, at beam 9, delamination/spall (4' x 1' x 3") with exposed rusted rebar	3		4	Square Feet
12	Delamination/Spall	bent 4 end diaphragm, right overhang, spall (12" x 6" x 2") with exposed rusted rebar	3		1	Square Feet
12	Delamination/Spall	underside, bay 6, at end bent 2, (3) spalls (7" diameter x 1") with exposed rusted rebar	3	2	2	Square Feet
12	Damage	right edge of deck, vegetation (15')	2			Square Feet
12	Efflorescence/Rust Staining	underside, bay 4, (2) transverse cracks (hairline x 6') with efflorescence, similar bay 6	2	24		Square Feet
12	Cracking (RC and Other)	underside of right overhang at bent 4, transverse crack (1/32" x 3')	2	3	3	Square Feet

General Comments

Span 5 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	2,720	2,510	0	210	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	at random, transverse cracks (up to 1/8" x 3')	3	10	10	Square Feet
510	Crack (Wearing Surface)	over bent 4, transverse crack (up to 1/4" x 100')	3	100	100	Square Feet
510	Crack (Wearing Surface)	UP TO 0.25" TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE OVER END BENT 2	3	100	100	Square Feet

General Comments

Span 5 Left Bridge Rail

Aluminum Bridge Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	43	0	43	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Damage	along edge of sidewalk, map cracks (hairline x 1' x full length), similar at concrete end post	2	43	43	Feet

General Comments

Span 5 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	43	0	26	3	14	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	(PAR) at bent 4, impact damage (14') with multiple broken posts and exposed rusted rebar	4	14	14	Feet
333	Delamination/Spall	at end bent 2, corner of sidewalk, spall (16" x 5" x 1.5")	3	2	2	Feet
333	Delamination/Spall	at end bent 2, rail post, spall (12" x 5" x 1") with exposed rusted rebar	3	1	1	Feet
333	Cracking	at midspan, sidewalk, transverse crack (1/32" x 3')	2	1		Feet
333	Delamination/Spall	rail post at random, (3) spalls (up to 5" x 2" x 1/2") with exposed rusted rebar	2	3	3	Feet
333	Damage	along top of sidewalk, vegetation (1' wide x 20')	2			Feet
333	Deterioration (Other)	throughout sidewalk and rail, scale with secure aggregate	2	22		Feet

General Comments

Span 5 Beam 7

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	38	0	0	4	Feet
515	Steel Protective Coating	390	378	0	0	12	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(2020 combined with other notes) BEAM 7 SPAN 5 AT BENT 4: 2" DIAMETER HOLE IN WEB AT DIAPHRAGM WITH 8" DIAMETER AREA OF 0.25" REMAINING AROUND HOLE	4			Feet
107	Corrosion	(PAR) at bent 4, corrosion with section loss: bottom flange, (0.5" average remaining x 2.5'); web at end diaphragm, (1/4" remaining x 14" x 16"); bottom of web, (5/16" remaining x 3" x 4')	4	4	4	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	12	12	Square Feet

General Comments

Span 5 Near Bearing 7

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust and 1/8" section loss at edge of plate	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 5 Beam 8

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	41	1	0	0	Feet
515	Steel Protective Coating	390	389	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	at bent 4, web and bottom flange, rust scale with pitting (up to 1/16")	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet

General Comments

Span 5 Near Bearing 8

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 5 Far Bearing 8

Fixed Bearing

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

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

General Comments

Span 5 Beam 9

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	40	0	0	2	Feet
515	Steel Protective Coating	390	380	0	0	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 14" x 5"); bottom flange, pitting (up to 1/16" x 1.5')	4	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	10	10	Square Feet

General Comments

Span 5 Near Bearing 9

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel	pack rust	4	1	1	Square Feet

Protective Coatings)

General Comments

Span 5 Beam 10

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	40	0	0	2	Feet
515	Steel Protective Coating	390	367	15	0	8	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	at bent 4, corrosion with section loss: bottom of web and at end diaphragm, (1/16" loss x 2" x 1.5')	4	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	8	8	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	15	15	Square Feet

General Comments

Span 5 Near Bearing 10

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 5 Beam 11

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	42	40	0	0	2	Feet
515	Steel Protective Coating	390	340	40	0	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 4, corrosion with section loss: bottom flange, (0.55" average remaining x 2'); web at end diaphragm, (1/16" remaining x 15" x 5")	4	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	10	10	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	paint peeling at random	2	40	40	Square Feet

General Comments

Span 5 Near Bearing 11

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	(PAR) bearing frozen with pack rust	4	1	1	Each
515	Effectiveness (Steel Protective Coatings)	pack rust	4	1	1	Square Feet

General Comments

Span 5 Far Bearing 11

Fixed Bearing

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

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

General Comments

Span 5 Bent 4 Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	124	92	0	20	12	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Seal Adhesion	left sidewalk, joint material separated with debris and vegetation	4	7	7	Feet
301	Seal Damage	at right sidewalk, joint material missing	4	5	5	Feet
301	Leakage	at random, active dripping	3	20	20	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	111	63	0	48	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	span 1 face, below beam 7, longitudinal crack (1/16" x 3')	3		3	Feet
234	Cracking (RC and Other)	span 2 face, below beams 7 - 11, longitudinal crack (1/8" x 48') with areas of delaminations/spalls (up to 2' high x 1/2" deep), with some rust stains	3	48	48	Feet

234	Cracking (RC and Other)	span 1 face, top corner, longitudinal crack (1/16" x 9') with delamination/spall (6" x 1"), similar bottom corner	3	17	Feet
234	Delamination/Spall	(PAR) span 1 face, below bay 9, bottom corner, spall (5' x 8" x 3") with exposed rusted rebar	3	5	Feet
234	Delamination/Spall	span 2 face, below beam 8, spall/delamination (2' x 2' x 1") with exposed rusted rebar	3	4	Feet
234	Delamination/Spall	span 2 face, below beam 9, spall/delamination (5' x 2' x 1.5") with exposed rusted rebar	3	5	Feet
234	Delamination/Spall	span 1 face, bay 9, top corner, delamination (2.5' x 6")	2	3	Feet

General Comments

Bent 1 Pile 1

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 2

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 3

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 4

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 5

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 6

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 7

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 8

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 9

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	1	0	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 10

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical crack (1/16" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 11

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical cracks (up to 1/4" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 12

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical cracks (up to 1/8" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 13

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical cracks (up to 1/4" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 14

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical cracks (up to 1/8" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 15

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical cracks (up to 1/32" x 2')	2	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

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	130	125	4	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Delamination/Spall	bay 9 at beam 10, bottom flange, spall (8" x 2" x 1"), similar bay 8 and bay 7	3	1	1	Feet
215	Delamination/Spall	right side of beam 11, bottom flange spall (5" x 3" x 1/2")	2	1	1	Feet
215	Cracking (RC and Other)	right overhang at utility penetration, map cracks (hairline) with efflorescence	2	3		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	111	101	4	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	face of cap, below beam 11, longitudinal crack (1/16" x 2') with delamination (16" x 10")	3	2	2	Feet
234	Delamination/Spall	face of cap, below beam 7, spall/delamination (3.5' x 1.5' x 1")	3	4	4	Feet
234	Cracking (RC and Other)	at random, vertical cracks (1/32" x 6")	2	4		Feet

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	111	109	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	BENT 2 CAP: 18" X 18" CORNER DELAMINATION ADJACENT TO TEMPORARY REPAIR UNDER BEAM 8	3	2	5	Feet

General Comments

3 Feet of Patched Area: Epoxy patched area that is sound under beam 7 on west face.

4 Feet of Patched Area: Patched area that is sound with steel plate material under beam 8 west face.

6 Feet of Patched Area: Patched area that is sound with steel plate material under beam 9 west face.

6 Feet of Patched Area: Patched area that is sound with steel plate material under beam 10 on west face.

6 Feet of Patched Area: Patched area that is sound with steel plate material on west face and right end under beam 11.

Bent 2 Pile 15

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	0	1	0	Each
515	Steel Protective Coating	122	122	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Corrosion	BENT 2 PILE 15: SECTION LOSS WITH 3/8" REMAINING ON TOP 3'	3	1	3	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	130	95	27	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Delamination/Spall	bay 6, at beam 7 bottom flange, spall (12" x 3" x 1")	3	1	1	Feet
215	Efflorescence/Rust Staining	bay 6, horizontal cracks (1/32" x 7') with efflorescence buildup	3	7	7	Feet
215	Cracking (RC and Other)	bay 1, multiple vertical and diagonal cracks (1/32" x 3'), similar bay 2	2	18		Feet
215	Cracking (RC and Other)	left end, (3) diagonal cracks (1/32" x 5') with map cracks (hairline)	2	9		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	111	95	15	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	at beam 5, vertical crack (1/16" x 2') at cold joint	3	1	2	Feet
234	Efflorescence/Rust Staining	at random, vertical cracks (hairline x up to 2') with efflorescence	2	15		Feet

General Comments

Bent 4 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	111	71	2	38	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	(combined with other notes 2020) BENT 4 CAP: 30' LONG X UP TO 0.25" WIDE HORIZONTAL CRACK AT BOTTOM OF EAST FACE BELOW BEAMS 9-11 (SIMILAR CRACK NEAR TOP)	3			Feet
234	Cracking (RC and Other)	span 5 face at beam 7, vertical crack (1/16" x 2') with efflorescence	3	1	1	Feet
234	Delamination/Spall	(PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face	3	30	120	Feet
234	Delamination/Spall	span 5 face, bay 7, delamination/spall (7' x 20" x 1") with longitudinal crack (1/8"); similar span 4 face	3	7	14	Feet
234	Cracking (RC and Other)	left end, map cracks (hairline x 2' x full height)	2	2		Feet

General Comments

no ladder access to span 4 face due to slope

Bent 4 Pile 1

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 2

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 3

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 4

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 5

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 6

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 7

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 8

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 9

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 10

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 11

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 12

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 13

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 14

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	span 5 face, at top, delamination/spall (15" x 18" x 1/2")	3	1		Each
226	Delamination/Spall	span 5 face, at top, delamination/spall (15" x 18" x 1/2")	3	1	2	Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 15

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical crack (1/8" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 17

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical crack (1/8" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 16

Steel Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
225	Damage	vertical crack (1/8" x 2')	3	1		Each

General Comments

(reinforced concrete encasement, not prestressed concrete)

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2416
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	32
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	32
Span 1	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	33
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	33
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2080
Span 1	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 6	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 6	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 7	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 7	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 8	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 8	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing 9	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 9	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing 10	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 10	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing 11	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing 11	Movable Bearing	Movable Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2416
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	33

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 10	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 11	Plate Girder	Steel Open Girder/Beam	33
Span 2	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	33
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	33
Span 2	Bent 1 Joint	Standard Joint	Pourable Joint Seal	124
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2080
Span 2	Near Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 6	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 7	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 8	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 9	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 10	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing 11	Fixed Bearing	Fixed Bearing	1
Span 3	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	43
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 3	Bent 2 Joint	Standard Joint	Pourable Joint Seal	124
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2720
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	3160
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	Beam 5	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 6	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 7	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 8	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 9	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 10	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 11	Plate Girder	Steel Open Girder/Beam	43
Span 4	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	43
Span 4	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 4	Bent 3 Joint	Standard Joint	Pourable Joint Seal	124
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2720
Span 4	Far Bearing 1	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 2	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 3	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 4	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 5	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 6	Movable Bearing	Movable Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 4	Far Bearing 7	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 8	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 9	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 10	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing 11	Movable Bearing	Movable Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	3160
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 3	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 4	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 5	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 6	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 7	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 8	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 9	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 10	Plate Girder	Steel Open Girder/Beam	42
Span 5	Beam 11	Plate Girder	Steel Open Girder/Beam	42
Span 5	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	43
Span 5	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 5	Bent 4 Joint	Standard Joint	Pourable Joint Seal	124
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2720
Span 5	Near Bearing 1	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 1	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 2	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 2	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 3	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 3	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 4	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 4	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 5	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 5	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 6	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 6	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 7	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 7	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 8	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 8	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 9	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 9	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing 10	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing 10	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing 11	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing 11	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	111
Bent 1	Pile 1	Steel Pile	Steel Pile	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Bent 1	Pile 2	Steel Pile	Steel Pile	1
Bent 1	Pile 3	Steel Pile	Steel Pile	1
Bent 1	Pile 4	Steel Pile	Steel Pile	1
Bent 1	Pile 5	Steel Pile	Steel Pile	1
Bent 1	Pile 6	Steel Pile	Steel Pile	1
Bent 1	Pile 7	Steel Pile	Steel Pile	1
Bent 1	Pile 8	Steel Pile	Steel Pile	1
Bent 1	Pile 9	Steel Pile	Steel Pile	1
Bent 1	Pile 10	Steel Pile	Steel Pile	1
Bent 1	Pile 11	Steel Pile	Steel Pile	1
Bent 1	Pile 12	Steel Pile	Steel Pile	1
Bent 1	Pile 13	Steel Pile	Steel Pile	1
Bent 1	Pile 14	Steel Pile	Steel Pile	1
Bent 1	Pile 15	Steel Pile	Steel Pile	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	111
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	130
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	111
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	130
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	111
Bent 4	Pile 1	Steel Pile	Steel Pile	1
Bent 4	Pile 2	Steel Pile	Steel Pile	1
Bent 4	Pile 3	Steel Pile	Steel Pile	1
Bent 4	Pile 4	Steel Pile	Steel Pile	1
Bent 4	Pile 5	Steel Pile	Steel Pile	1
Bent 4	Pile 6	Steel Pile	Steel Pile	1
Bent 4	Pile 7	Steel Pile	Steel Pile	1
Bent 4	Pile 8	Steel Pile	Steel Pile	1
Bent 4	Pile 9	Steel Pile	Steel Pile	1
Bent 4	Pile 10	Steel Pile	Steel Pile	1
Bent 4	Pile 11	Steel Pile	Steel Pile	1
Bent 4	Pile 12	Steel Pile	Steel Pile	1
Bent 4	Pile 13	Steel Pile	Steel Pile	1
Bent 4	Pile 14	Steel Pile	Steel Pile	1
Bent 4	Pile 15	Steel Pile	Steel Pile	1
Bent 4	Pile 16	Steel Pile	Steel Pile	1
Bent 4	Pile 17	Steel Pile	Steel Pile	1

General Inspection Notes

Bent 1 Pile 1

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 2

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 3

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 4

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 5

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 6

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 7

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 8

(reinforced concrete encasement, not prestressed concrete)

Bent 1 Pile 9

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 1

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 10

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 11

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 12

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 13

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 2

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 3

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 4

General Inspection Notes

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 5

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 6

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 7

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 8

(reinforced concrete encasement, not prestressed concrete)

Bent 4 Pile 9

(reinforced concrete encasement, not prestressed concrete)

Span 4 Near Bearing 9

1 Each of Corrosion: Section loss up to 1/8" along plate edges with pitting up to 1/8" on plate surfaces.

1 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal on plate surfaces.

National Bridge and NC Inspection Items

Structure Number: 110099 Inspection Date: 01/21/2020

National Bridge Inventory Items

Item	Grade Scale	Grade
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	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C	P		
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	F	2	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		A		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	16
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 110099 Inspection Date: 01/21/2020

Item	Superstructure - Item 59	Grade 4	Maint Code	Qty. 0
Details	partial inspection; inspected topside and spans 1 & 5 (in full), the near end of span 2, and the far end of span 4; awaiting railroad entry permit limited access to right half of span 5 due to vagrant debris			

Item	Substructure - Item 60	Grade 5	Maint Code	Qty. 0
Details	partial inspection, inspected end bents and bents 1 and 4, awaiting railroad entry permit			

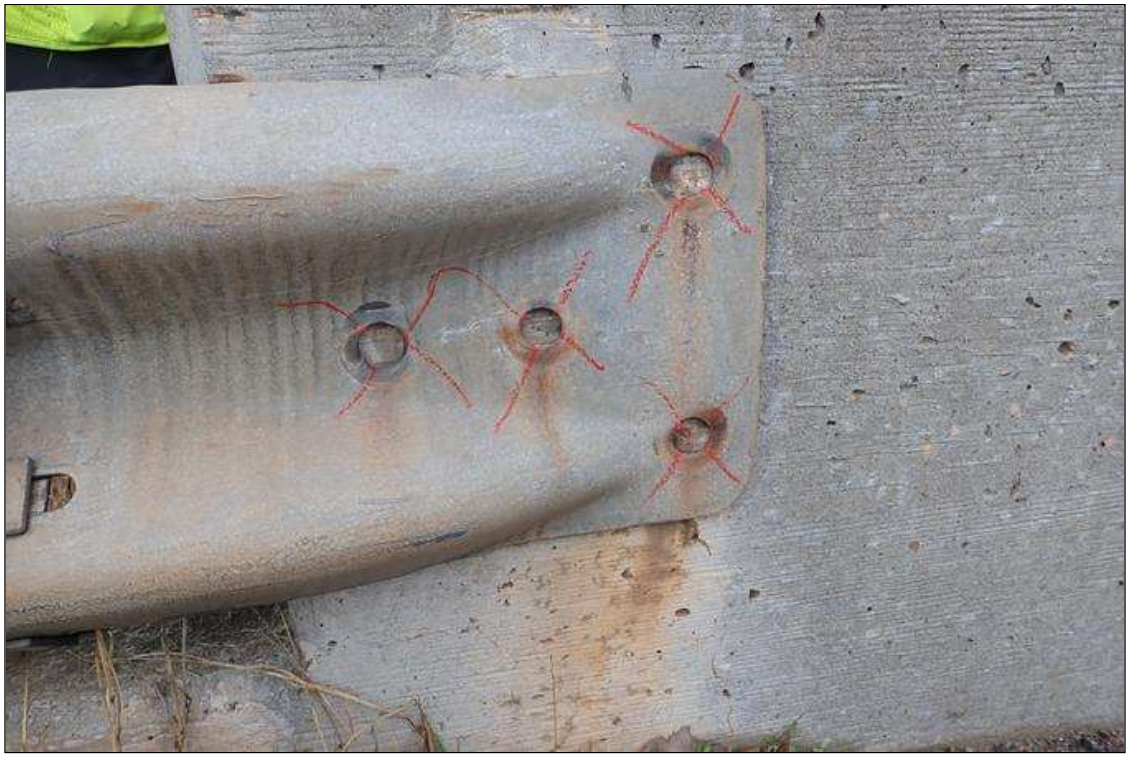
Item	Utilities	Grade P	Maint Code	Qty. 0
Details	(PAR) span 1 utility, right overhang, 6' from bent 1, section loss on clamp rods (5/8" remaining); and bottom flange of bracket at beam, corrosion hole (1.5" diameter) right overhang, throughout utility hangers, surface rust (PAR) right overhang, utility hanger, 7' from end bent 1, bottom flange of bracket at beam, corrosion with section loss (0.2" average remaining x 3")			

Item	Wingwalls	Grade F	Maint Code 3350	Qty. 2
Details	northeast wingwall, top corner at end, spall (6" x 3" x 1/2") southeast wingwall, at end, spall (6" x 4" x 1")			

Item	General Comments and Misc Items	Grade	Maint Code	Qty. 0
Details	(PAR) southwest guardrail termination, impact damage (3') (PAR) southeast guardrail, at center, impact damage (15') (PAR) northwest guardrail attachment not connected to bridge rail (PAR) northeast guardrail attachment, (1) bolt missing (PAR) northeast guardrail, near end bent 2, (2) spacer blocks twisted			

(PAR) southwest guardrail termination, impact damage (3')

(PAR) southeast guardrail, at center, impact damage (15')



(PAR) northwest guardrail attachment not connected to bridge rail

(PAR) northeast guardrail attachment, (1) bolt missing

Span 1 Wearing Surface: UP TO 0.25" TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE OVER END BENT 1

Span 1 Wearing Surface: at random, transverse cracks (up to 1/8" x 3')

Span 2 Wearing Surface: UP TO 0.5" TRANSVERSE CRACKS OVER BENT 2

Span 5 Right Bridge Rail: (PAR) at bent 4, impact damage (14') with multiple broken posts and exposed rusted rebar

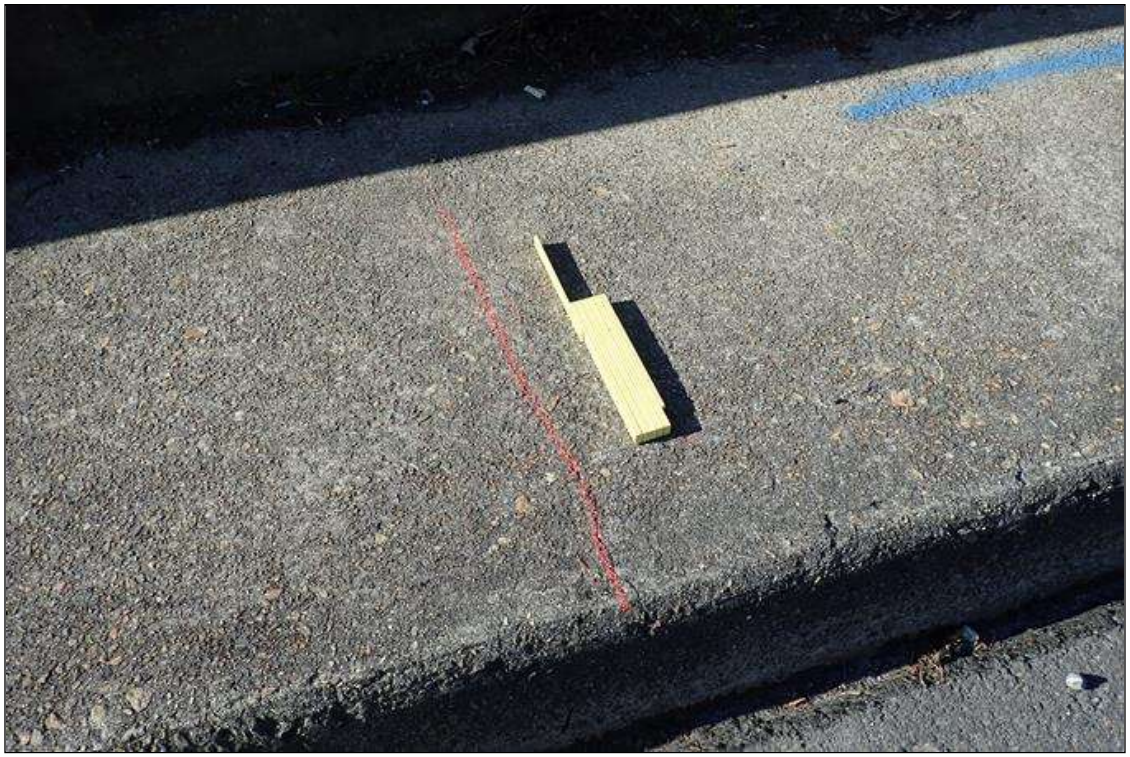
Span 5 Right Bridge Rail: (PAR) at bent 4, impact damage (14') with multiple broken posts and exposed rusted rebar

Span 5 Right Bridge Rail: at end bent 2, rail post, spall (12" x 5" x 1") with exposed rusted rebar

Span 5 Right Bridge Rail: at end bent 2, corner of sidewalk, spall (16" x 5" x 1.5")

Span 5 Right Bridge Rail: along top of sidewalk, vegetation (1' wide x 20')

Span 5 Right Bridge Rail: rail post at random, (3) spalls (up to 5" x 2" x 1/2") with exposed rusted rebar



Span 5 Right Bridge Rail: at midspan, sidewalk, transverse crack (1/32" x 3')

Bent 4 Joint : at right sidewalk, joint material missing

Span 4 Right Bridge Rail: rail posts at random, (4) spalls (up to 16" x 1" x 1/2") with exposed rusted rebar

Span 4 Right Bridge Rail: throughout sidewalk and end post, map cracks (up to 1/32")

Bent 3 Joint : at right sidewalk, joint material missing (2') with debris and vegetation

Span 3 Right Bridge Rail: rail posts at random, (10) spalls (up to 16" x 2" x 1/2") with exposed rusted rebar

Span 1 Right Bridge Rail: rail posts at random, (6) spalls (up to 6" x 2" x 1") with exposed rusted rebar

Span 4 Right Bridge Rail: throughout sidewalk and rail, scale with secure aggregate

Span 1 Right Bridge Rail: (PAR) at midspan, impact damage (2'), broken at base

Span 1 Left Bridge Rail: along edge of sidewalk, map cracks (hairline x 1' x full length)

Bent 1 Joint : left sidewalk, joint material separated with debris and vegetation

Span 4 Left Bridge Rail: at bent 4, bottom rail, impact damage with gouges (1/8" deep x 4')

End Bent 1 Abutment/Backwall : right overhang at utility penetration, map cracks (hairline) with efflorescence

End Bent 1 Abutment/Backwall : right side of beam 11, bottom flange, spall (5" x 3" x 1/2")

Span 1 Deck: (PAR) right side of beam 11 haunch, at bent 2, spall (14' x 6" x 5") with exposed rusted rebar

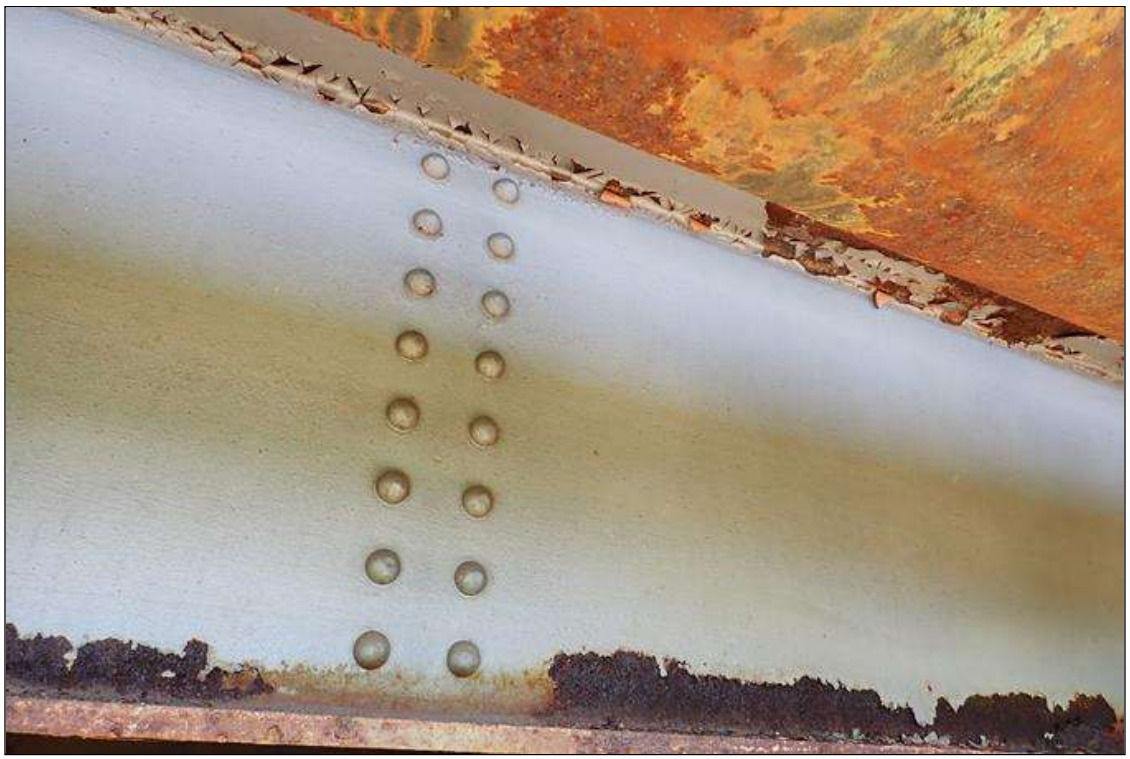
Span 1 Deck: along right drip edge, multiple spalls (up to 2' x 4" x 1/2") with exposed rusted rebar

right overhang, throughout utility hangers, surface rust

Span 1 Beam 11 Near Bearing 11: (PAR) corrosion with section loss (1/8" loss) at plate edges

End Bent 1 Cap 1: face of cap, below beam 11, longitudinal crack (1/16" x 2') with delamination (16" x 10")

Span 1 Beam 11: (PAR) at end bent 1, bottom of web, left face, corrosion with section loss (1/4" remaining x 8" x 6")



Span 1 Beam 11: both flanges, below deck haunch spall, rust scale with pitting (up to 1/16")

Span 1 Beam 11: (PAR) at end bent 1, behind bearing, corrosion with section loss (0.6" average remaining x 1')

Span 1 Beam 11: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at end diaphragm, (1/8" remaining x 3" wide x 19")

Span 1 Beam 11: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at end diaphragm, (1/8" remaining x 3" wide x 19")

Span 1 Beam 11: (PAR) 8' from bent 1, at utility hanger, right face of web, corrosion with section loss (1/8" remaining x 6" x 6")

Span 1 Beam 11 Far Bearing 11: (PAR) bearing frozen with pack rust

(PAR) span 1 utility, right overhang, 6' from bent 1, section loss on clamp rods (5/8" remaining); and bottom flange of bracket at beam, corrosion hole (1.5" diameter)

(PAR) span 1 utility, right overhang, 6' from bent 1, section loss on clamp rods (5/8" remaining); and bottom flange of bracket at beam, corrosion hole (1.5" diameter)

(PAR) right overhang, utility hanger, 7' from end bent 1, bottom flange of bracket at beam, corrosion with section loss (0.2" average remaining x 3")

Span 1 Beam 10: (PAR) at bent 1, left face of web, corrosion with section loss (3/8" remaining x 7" x 8")

Span 1 Deck: bent 1 end diaphragm, bay 9. at beam 10, spall (12" x 6" x 6") with exposed rusted rebar

End Bent 1 Abutment/Backwall : bay 9 at beam 10 bottom flange, spall (8" x 2" x 1")

Span 1 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust

Span 1 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust

Span 1 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust

Span 1 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust

Span 1 Beam 5 Far Bearing 5: left anchor bolt nut missing

Span 1 Beam 7: (PAR) at bent 1, corrosion with section loss: web, corrosion hole at bearing (12" x 3"); bottom of web, (1/8" remaining x 4" x 11'), (5/16" remaining x 1" x next 6')

Span 1 Beam 7: (PAR) at bent 1, corrosion with section loss: web, corrosion hole at bearing (12" x 3"); bottom of web, (1/8" remaining x 4" x 11'), (5/16" remaining x 1" x next 6')

Span 1 Beam 7: (PAR) at bent 1, corrosion with section loss: web, corrosion hole at bearing (12" x 3"); bottom of web, (1/8" remaining x 4" x 11'), (5/16" remaining x 1" x next 6')

Span 1 Beam 7: at end bent 1, bottom of web, corrosion with section loss (7/16" remaining x 4" x 10')

Span 1 Beam 7: (PAR) at bent 1, bottom flange, corrosion with section loss (0.6" average remaining x 11')

Span 1 Deck: bent 1 end diaphragm, bay 7 at beam 8, spall (16" x 18" x 2") with exposed rusted rebar

Span 1 Deck: bent 1 end diaphragm, bay 8 at beam 9, spall (30" x 8" x 4") with exposed rusted rebar, similar at beam 8

Span 1 Deck: bent 1 end diaphragm, bay 9 at beam 9, spall (12" x 4" x 1") with exposed rusted rebar

Span 1 Beam 9: (PAR) at bent 1 end diaphragm, corrosion with section loss: web, (1/8" remaining x 16" x 8") with corrosion hole (9" x 1/2")

Span 1 Beam 9: at end bent 1, bottom of web, corrosion with section loss (7/16" remaining x 3" x 1')

Span 1 Beam 8: (PAR) at bent 1 end diaphragm, web, corrosion with section loss (1/16" remaining x 16" x 10"); bottom flange, rust scale

End Bent 1 Cap 1: face of cap, below beam 7, spall/delamination (3.5' x 1.5' x 1")

Span 1 Deck: underside of deck at end bent 1, bay 5, diagonal crack (hairline x 6') with efflorescence, similar bays 2 and 4

Bent 1 Cap 1: span 2 face, below beam 8, spall/delamination (2' x 2' x 1") with exposed rusted rebar

Bent 1 Cap 1: span 2 face, below beam 9, spall/delamination (5' x 2' x 1.5") with exposed rusted rebar

Bent 1 Cap 1: span 2 face, below beams 7 - 11, longitudinal crack (1/8" x 48') with areas of delaminations/spalls (up to 2' high x 1/2" deep), with some rust stains

Bent 1 Cap 1: span 2 face, below beams 7 - 11, longitudinal crack (1/8" x 48') with areas of delaminations/spalls (up to 2' high x 1/2" deep), with some rust stains

Bent 1 Cap 1: span 1 face, below beam 7, longitudinal crack (1/16" x 3')

Bent 1 Cap 1: (PAR) span 1 face, below bay 9, bottom corner, spall (5' x 8" x 3") with exposed rusted rebar

Bent 1 Cap 1: span 1 face, bay 9, top corner, delamination (2.5' x 6")

Bent 1 Cap 1: span 1 face, top corner, longitudinal crack (1/16" x 9') with delamination/spall (6" x 1"), similar bottom corner

Bent 1 Pile 11: vertical cracks (up to 1/4" x 2')

Bent 1 Pile 13: vertical cracks (up to 1/4" x 2')

Span 2 Deck: underside, bay 5, at midspan, transverse crack (hairline x 7') with efflorescence

Span 2 Deck: (PAR) bent 1 end diaphragm, bay 7, failed previous repair (10' x 10" x 4") with section loss on rebar (3/8" remaining)

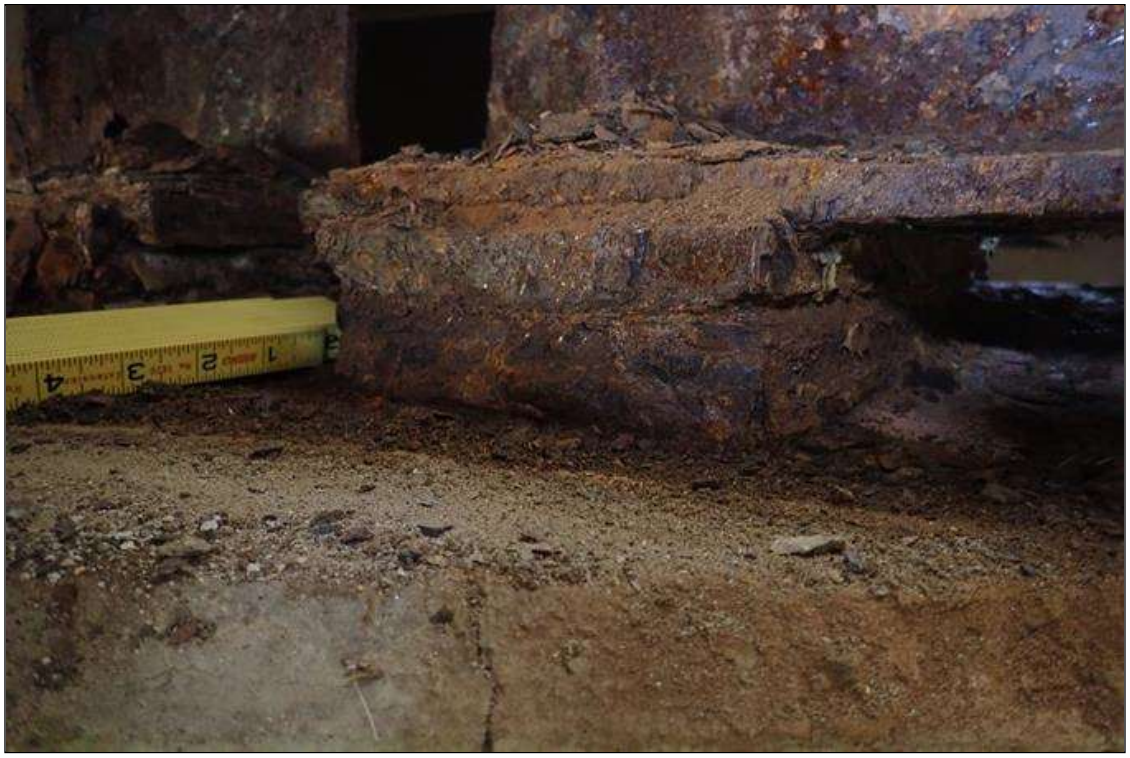
Span 2 Deck: (PAR) bent 1 end diaphragm, bay 7, failed previous repair (10' x 10" x 4") with section loss on rebar (3/8" remaining)

Span 2 Deck: bent 1 end diaphragm, bay 9, (2) spalls (up to 3.5' x 8" x 3") with exposed rusted rebar

Span 2 Deck: bent 1 end diaphragm, bay 10, at beam 11, spall (6' x 7" x 2") with exposed rusted rebar

Span 2 Deck: bent 1 end diaphragm, bay 10, at beam 10, spall (1' x 8" x 2") with exposed rusted rebar

Span 2 Deck: bent 1 end diaphragm, bay 8, underside, (4) spalls (up to 7" diameter x 1") with exposed rusted rebar

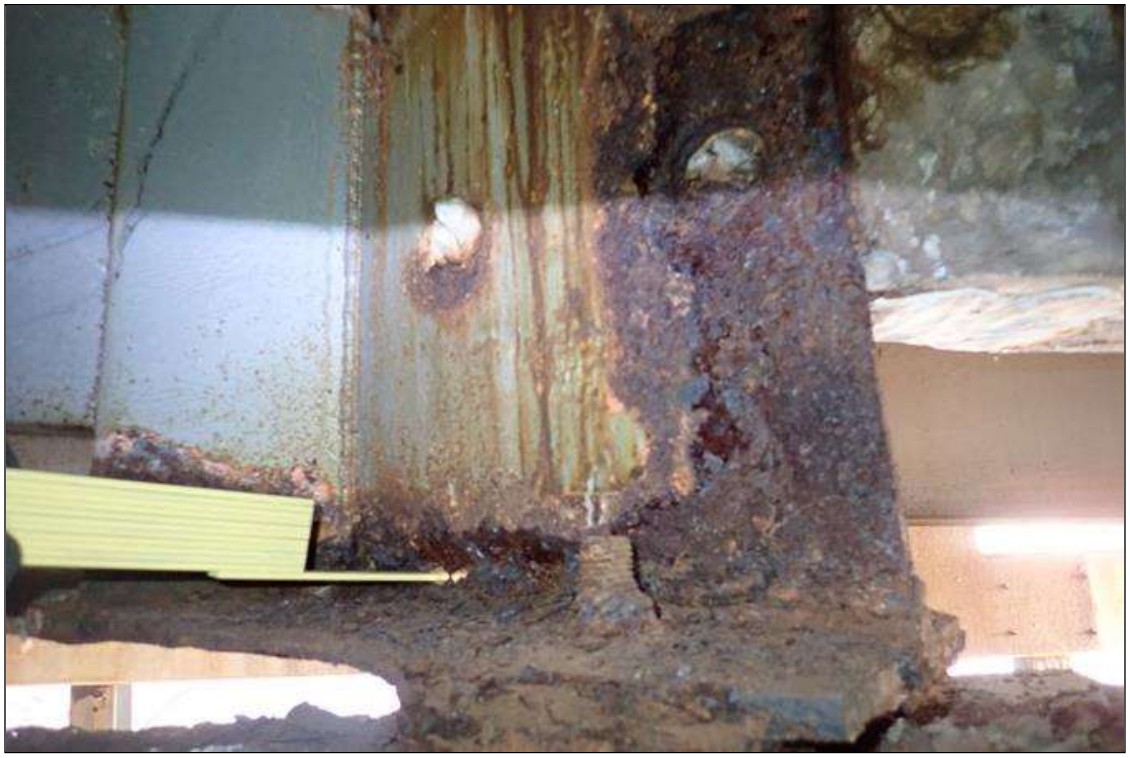


Span 2 Beam 7 Near Bearing: (PAR) pack rust with 1/8" section loss on edge of plate

Span 2 Beam 8 Near Bearing 8: pack rust

Span 2 Beam 9 Near Bearing 9: pack rust

Span 2 Deck: bent 1 end diaphragm, bay 9, at beam 10, spall (18" x 4" x 2") with exposed rusted rebar



Span 2 Beam 7: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at bearing, (1/16" remaining x 1' x 16" high) with corrosion hole (2" x 1")

Span 2 Beam 7: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at bearing, (1/16" remaining x 1' x 16" high) with corrosion hole (2" x 1")

Span 2 Beam 8: (PAR) at bent 1, web at end diaphragm, corrosion with section loss (5/16" remaining x 10" x 7")

Span 2 Beam 9: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.7" average remaining x 1.5'); web, at end diaphragm, (1/16" remaining x 16" x 4") with corrosion hole (1.5" x 1/2")

Span 2 Beam 9: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.7" average remaining x 1.5'); web, at end diaphragm, (1/16" remaining x 16" x 4") with corrosion hole (1.5" x 1/2")

Span 2 Beam 10: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (1/16" remaining x 18" x 7")

Span 2 Beam 11: at bent 1, bottom flange, corrosion with section loss (0.7" average remaining x 15')

Span 2 Beam 11: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (0.25" remaining x 16" x 2")

northeast wingwall, top corner at end, spall (6" x 3" x 1/2")

End Bent 2 Abutment/Backwall : left end, (3) diagonal cracks (1/32" x 5') with map cracks (hairline)

End Bent 2 Abutment/Backwall : bay 1, multiple vertical and diagonal cracks (1/32" x 3')

End Bent 2 Cap 1: at random, vertical cracks (hairline x up to 2') with efflorescence

End Bent 2 Cap 1: at beam 5, vertical crack (1/16" x 2') at cold joint

Span 5 Deck: underside, bay 6, at end bent 2, (3) spalls (7" diameter x 1") with exposed rusted rebar

End Bent 2 Abutment/Backwall : bay 6, horizontal cracks (1/32" x 7') with efflorescence buildup

End Bent 2 Abutment/Backwall : bay 6, at beam 7, bottom flange, spall (12" x 3" x 1")

Span 5 Beam 8 Far Bearing 8: rust scale

limited access to right half of span 5 due to vagrant debris

Span 5 Deck: right edge of deck, vegetation (15')

southeast wingwall, at end, spall (6" x 4" x 1")

Bent 4 Pile 14: span 5 face, at top, delamination/spall (15" x 18" x 1/2")

Bent 4 Pile 15: vertical crack (1/8" x 2')

Bent 4 Cap 1: left end, map cracks (hairline x 2' x full height)

Bent 4 Cap 1: span 5 face at beam 7, vertical crack (1/16" x 2') with efflorescence

Bent 4 Cap 1: span 5 face, bay 7, delamination/spall (7' x 20" x 1") with longitudinal crack (1/8"); similar span 4 face

Bent 4 Cap 1: (PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face

Bent 4 Cap 1: (PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face

Bent 4 Cap 1: (PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face

Bent 4 Cap 1: (PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face

Span 5 Deck: bent 4 end diaphragm, bay 7 at beam 7, spall (2' x 18" x 2") with exposed rusted rebar

Span 5 Deck: bent 4 end diaphragm, bay 9, at beam 9, delamination/spall (4' x 1' x 3") with exposed rusted rebar

Span 5 Deck: bent 4 end diaphragm, bay 10, at beam 11, spall (18" x 3" x 4") with exposed rusted rebar

Span 5 Deck: bent 4 end diaphragm, right overhang, spall (12" x 6" x 2") with exposed rusted rebar

Span 5 Beam 11: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.55" average remaining x 2'); web at end diaphragm, (1/16" remaining x 15" x 5")

Span 5 Beam 11 Near Bearing 11: (PAR) bearing frozen with pack rust

Span 4 Beam 11 Far Bearing 11: pack rust

Span 4 Beam 11: 2020 no ladder access to verify section remaining, previously noted as: BEAM 11 SPAN 4 AT BENT 4: SECTION LOSS TO BOTTOM LEFT FLANGE WITH 11/16" REMAINING AND BOTTOM 4" OF WEB WITH 7/16" REMAINING FOR 15'

Span 4 Beam 11: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 10" x 4")

Span 5 Beam 10 Near Bearing 10: (PAR) bearing frozen with pack rust

Span 5 Beam 10: at bent 4, corrosion with section loss: bottom of web and at end diaphragm, (1/16" loss x 2" x 1.5')

Span 4 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust

Span 4 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust

Span 5 Beam 9 Near Bearing 9: (PAR) bearing frozen with pack rust

Span 4 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 1.5' x up to 12")

Span 5 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 14" x 5"); bottom flange, pitting (up to 1/16" x 1.5')

Span 5 Beam 8 Near Bearing 8: (PAR) bearing frozen with pack rust

Span 4 Beam 8: (PAR) at bent 4, web at end diaphragm, (3/8" remaining x 6" x 4")

Span 5 Beam 7 Near Bearing 7: (PAR) bearing frozen with pack rust and 1/8" section loss at edge of plate

Span 4 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust

Span 4 Beam 7: (PAR) at bent 4, corrosion with section loss: web, at bearing, (3/8" remaining x 16" x 12"); bottom of web, (1/4" remaining x 2" x approximately 15'); bottom flange, (0.7" average remaining x 16")

Span 4 Beam 7: (PAR) at bent 4, corrosion with section loss: web, at bearing, (3/8" remaining x 16" x 12"); bottom of web, (1/4" remaining x 2" x approximately 15'); bottom flange, (0.7" average remaining x 16")

Span 5 Beam 7: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.5" average remaining x 2.5'); web at end diaphragm, (1/4" remaining x 14" x 16"); bottom of web, (5/16" remaining x 3" x 4')

Span 5 Beam 7: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.5" average remaining x 2.5'); web at end diaphragm, (1/4" remaining x 14" x 16"); bottom of web, (5/16" remaining x 3" x 4')

Bent 4 Joint : at random, active dripping

Span 4 Deck: bent 4 end diaphragm, bay 7, underside, multiple spalls (up to 8" x 6" x 1"); similar bays 8, 9 and 10

Span 4 Deck: (PAR) at bent 4, right side of beam 11 haunch, spall (25' x 5" x 5") with exposed rusted rebar

Span 4 Deck: underside of right overhang at bent 4, (2) spalls (8" diameter x 1") with exposed rusted rebar

Span 5 Deck: underside of right overhang at bent 4, transverse crack (1/32" x 3')

Span 4 Beam 11: midspan at utility connection, rust scale (no ladder access to verify remaining section)

Span 5 Beam 11: paint peeling at random

Span 2 Deck: underside at bent 4, bays 9 and 10, multiple transverse cracks (hairline up 1/32" x 7')

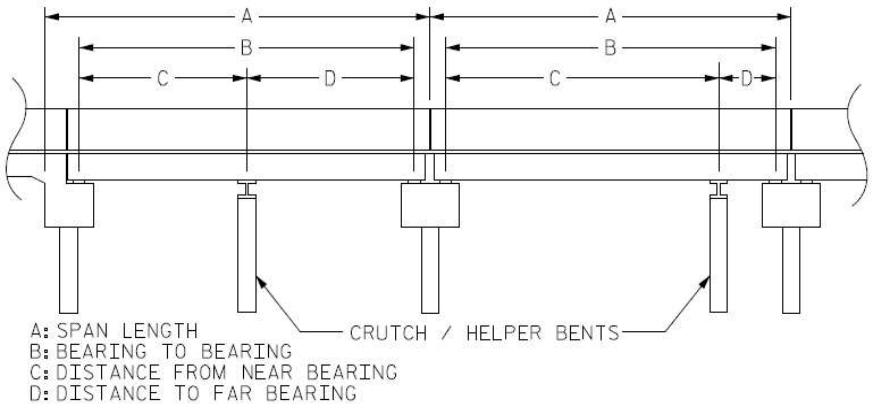
(PAR) northeast guardrail, near end bent 2, (2) spacer blocks twisted

Span 4 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust

Structure Data Worksheet

Span Profile

County: BURKE Structure Number: 110099



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	32.500	30.500			
2	32.500	30.500			
3	42.500	41.670			
4	42.500	41.670			
5	42.500	41.670			

west approach looking east

southwest guardrail and termination

southwest guardrail transition

southwest guardrail attachment

bridge plaque

end bent 1 asphalt

right bridge rail

bent 1 asphalt

bent 2 asphalt

bent 3 asphalt

bent 4 asphalt

end bent 2 asphalt

tracks looking south, span 3

east approach looking east

west approach looking west

southeast guardrail attachment

southeast guardrail and termination

southwest wingwall

right overhang, 12" diameter iron pipe utility

end bent 1

south profile looking north

bent 1, right end

bent 2

intermediate diaphragm

end diaphragm

interior bearing assembly, bent 1, beams 8-11

beams over bent 1, beams 8-11

superstructure underside, span 2

northwest wingwall

bent 1, left end

beams over bent 1, beams 1-7

interior bearing assembly, bent 1, beams 1-7

northwest guardrail attachment

northwest guardrail

left bridge rail

tracks looking north, span 3

northeast guardrail attachment

northeast guardrail

northeast guardrail transition

northeast wingwall

end bearing assembly, end bent 2

end bent 2

bent 4

bent 3

north profile looking south

southeast wingwall

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 110099 County BURKE Date:

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
0	No Maintenance Required	NA	1	(PAR) northwest guardrail attachment not connected to bridge rail	
0	No Maintenance Required	NA	1	(PAR) span 1 utility, right overhang, 6' from bent 1, section loss on clamp rods (5/8" remaining); and bottom flange of bracket at beam, corrosion hole (1.5" diameter)	
0	No Maintenance Required	NA	1	(PAR) right overhang, utility hanger, 7' from end bent 1, bottom flange of bracket at beam, corrosion with section loss (0.2" average remaining x 3")	
0	No Maintenance Required	NA	2	(PAR) northeast guardrail, near end bent 2, (2) spacer blocks twisted	
3314	Maintain Steel Superstructure Components	LF	11	Span 1 Beam 7: (PAR) at bent 1, bottom flange, corrosion with section loss (0.6" average remaining x 11')	
3314	Maintain Steel Superstructure Components	LF	17	Span 1 Beam 7: (PAR) at bent 1, corrosion with section loss: web, corrosion hole at bearing (12" x 3"); bottom of web, (1/8" remaining x 4" x 11'), (5/16" remaining x 1" x next 6')	
3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 8: (PAR) at bent 1 end diaphragm, web, corrosion with section loss (1/16" remaining x 16" x 10"); bottom flange, rust scale	
3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 9: (PAR) at bent 1 end diaphragm, corrosion with section loss: web, (1/8" remaining x 16" x 8") with corrosion hole (9" x 1/2")	
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 10: (PAR) at bent 1, left face of web, corrosion with section loss (3/8" remaining x 7" x 8")	
3314	Maintain Steel Superstructure Components	LF	3	Span 1 Beam 11: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at end diaphragm, (1/8" remaining x 3" wide x 19")	
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 11: (PAR) at end bent 1, behind bearing, corrosion with section loss (0.6" average remaining x 1')	
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 11: (PAR) 8' from bent 1, at utility hanger, right face of web, corrosion with section loss (1/8" remaining x 6" x 6")	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 110099 County BURKE Date:

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 11: (PAR) at end bent 1, bottom of web, left face, corrosion with section loss (1/4" remaining x 8" x 6")	
3314	Maintain Steel Superstructure Components	LF	3	Span 2 Beam 7: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at bearing, (1/16" remaining x 1' x 16" high) with corrosion hole (2" x 1")	
3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 8: (PAR) at bent 1, web at end diaphragm, corrosion with section loss (5/16" remaining x 10" x 7")	
3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 9: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.7" average remaining x 1.5'); web, at end diaphragm, (1/16" remaining x 16" x 4") with corrosion hole (1.5" x 1/2")	
3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 10: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (1/16" remaining x 18" x 7")	
3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 11: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (0.25" remaining x 16" x 2")	
3314	Maintain Steel Superstructure Components	LF	15	Span 4 Beam 7: (PAR) at bent 4, corrosion with section loss: web, at bearing, (3/8" remaining x 16" x 12"); bottom of web, (1/4" remaining x 2" x approximately 15'); bottom flange, (0.7" average remaining x 16")	
3314	Maintain Steel Superstructure Components	LF	1	Span 4 Beam 8: (PAR) at bent 4, web at end diaphragm, (3/8" remaining x 6" x 4")	
3314	Maintain Steel Superstructure Components	LF	2	Span 4 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 1.5' x up to 12")	
3314	Maintain Steel Superstructure Components	LF	1	Span 4 Beam 11: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 10" x 4")	
3314	Maintain Steel Superstructure Components	LF	4	Span 5 Beam 7: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.5" average remaining x 2.5'); web at end diaphragm, (1/4" remaining x 14" x 16"); bottom of web, (5/16" remaining x 3" x 4')	
3314	Maintain Steel Superstructure Components	LF	2	Span 5 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 14" x 5"); bottom flange, pitting (up to 1/16" x 1.5')	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 110099 County BURKE Date:

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	2	Span 5 Beam 11: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.55" average remaining x 2'); web at end diaphragm, (1/16" remaining x 15" x 5")	
3318	Maint to Concrete Handrail	LF	14	Span 5 Right Bridge Rail: (PAR) at bent 4, impact damage (14') with multiple broken posts and exposed rusted rebar	
3318	Maint to Concrete Handrail	LF	2	Span 1 Right Bridge Rail: (PAR) at midspan, impact damage (2'), broken at base	
3326	Maintain Concrete Deck	SF	14	Span 1 Deck: (PAR) right side of beam 11 haunch, at bent 2, spall (14' x 6" x 5") with exposed rusted rebar	
3326	Maintain Concrete Deck	SF	10	Span 2 Deck: (PAR) bent 1 end diaphragm, bay 7, failed previous repair (10' x 10" x 4") with section loss on rebar (3/8" remaining)	
3334	Bridge Bearings	EA	1	Span 5 Beam 7 Near Bearing: (PAR) bearing frozen with pack rust and 1/8" section loss at edge of plate	
3334	Bridge Bearings	EA	1	Span 2 Beam 7 Near Bearing: (PAR) pack rust with 1/8" section loss on edge of plate	
3334	Bridge Bearings	EA	1	Span 5 Beam 11 Near Bearing 11: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 5 Beam 10 Near Bearing 10: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 5 Beam 9 Near Bearing 9: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 5 Beam 8 Near Bearing 8: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 4 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 4 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 4 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 4 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 110099 County BURKE Date:

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3334	Bridge Bearings	EA	1	Span 1 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 1 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 1 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 1 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 1 Beam 11 Far Bearing 11: (PAR) bearing frozen with pack rust	
3334	Bridge Bearings	EA	1	Span 1 Beam 11 Near Bearing 11: (PAR) corrosion with section loss (1/8" loss) at plate edges	
3348	Maintain Concrete Substructure Components	LF	5	Bent 1 Cap 1: (PAR) span 1 face, below bay 9, bottom corner, spall (5' x 8" x 3") with exposed rusted rebar	
3348	Maintain Concrete Substructure Components	LF	120	Bent 4 Cap 1: (PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face	
0	No Maintenance Required	NA	3	(PAR) southwest guardrail termination, impact damage (3')	
0	No Maintenance Required	NA	15	(PAR) southeast guardrail, at center, impact damage (15')	
0	No Maintenance Required	NA	1	(PAR) northeast guardrail attachment, (1) bolt missing	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
0	No Maintenance Required	1 NA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

(PAR) span 1 utility, right overhang, 6' from bent 1, section loss on clamp rods (5/8" remaining); and bottom flange of bracket at beam, corrosion hole (1.5" diameter)

MMS Code	MMS Description	Quantity
0	No Maintenance Required	1 NA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

(PAR) right overhang, utility hanger, 7' from end bent 1, bottom flange of bracket at beam, corrosion with section loss (0.2" average remaining x 3")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
0	No Maintenance Required	2 NA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

(PAR) northeast guardrail, near end bent 2, (2) spacer blocks twisted

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	11 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 7: (PAR) at bent 1, bottom flange, corrosion with section loss (0.6" average remaining x 11')

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	17 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 7: (PAR) at bent 1, corrosion with section loss: web, corrosion hole at bearing (12" x 3"); bottom of web, (1/8" remaining x 4" x 11'), (5/16" remaining x 1" x next 6')

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 8: (PAR) at bent 1 end diaphragm, web, corrosion with section loss (1/16" remaining x 16" x 10"); bottom flange, rust scale

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 9: (PAR) at bent 1 end diaphragm, corrosion with section loss: web, (1/8" remaining x 16" x 8") with corrosion hole (9" x 1/2")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 10: (PAR) at bent 1, left face of web, corrosion with section loss (3/8" remaining x 7" x 8")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 11: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at end diaphragm, (1/8" remaining x 3" wide x 19")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 11: (PAR) at end bent 1, behind bearing, corrosion with section loss (0.6" average remaining x 1')

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 11: (PAR) 8' from bent 1, at utility hanger, right face of web, corrosion with section loss (1/8" remaining x 6" x 6")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Beam 11: (PAR) at end bent 1, bottom of web, left face, corrosion with section loss (1/4" remaining x 8" x 6")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 2 Beam 7: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.6" average remaining x 3'); web at bearing, (1/16" remaining x 1' x 16" high) with corrosion hole (2" x 1")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 2 Beam 8: (PAR) at bent 1, web at end diaphragm, corrosion with section loss (5/16" remaining x 10" x 7")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 2 Beam 9: (PAR) at bent 1, corrosion with section loss: bottom flange, (0.7" average remaining x 1.5'); web, at end diaphragm, (1/16" remaining x 16" x 4") with corrosion hole (1.5" x 1/2")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 2 Beam 10: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (1/16" remaining x 18" x 7")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 2 Beam 11: (PAR) at bent 1, corrosion with section loss: web at end diaphragm, (0.25" remaining x 16" x 2")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	15 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 4 Beam 7: (PAR) at bent 4, corrosion with section loss: web, at bearing, (3/8" remaining x 16" x 12"); bottom of web, (1/4" remaining x 2" x approximately 15'); bottom flange, (0.7" average remaining x 16")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 4 Beam 8: (PAR) at bent 4, web at end diaphragm, (3/8" remaining x 6" x 4")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 4 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 1.5' x up to 12")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 4 Beam 11: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 10" x 4")

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	4 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 5 Beam 7: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.5" average remaining x 2.5'); web at end diaphragm, (1/4" remaining x 14" x 16"); bottom of web, (5/16" remaining x 3" x 4')

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 5 Beam 9: (PAR) at bent 4, corrosion with section loss: web at end diaphragm, (1/4" remaining x 14" x 5"); bottom flange, pitting (up to 1/16" x 1.5')

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 5 Beam 11: (PAR) at bent 4, corrosion with section loss: bottom flange, (0.55" average remaining x 2'); web at end diaphragm, (1/16" remaining x 15" x 5")

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3318	Maint to Concrete Handrail	14 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 5 Right Bridge Rail: (PAR) at bent 4, impact damage (14') with multiple broken posts and exposed rusted rebar

MMS Code	MMS Description	Quantity
3318	Maint to Concrete Handrail	2 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Right Bridge Rail: (PAR) at midspan, impact damage (2'), broken at base

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	14 SF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Span 1 Deck: (PAR) right side of beam 11 haunch, at bent 2, spall (14' x 6" x 5") with exposed rusted rebar

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	10 SF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 2 Deck: (PAR) bent 1 end diaphragm, bay 7, failed previous repair (10' x 10" x 4") with section loss on rebar (3/8" remaining)

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 5 Beam 7 Near Bearing: (PAR) bearing frozen with pack rust and 1/8" section loss at edge of plate

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Span 2 Beam 7 Near Bearing: (PAR) pack rust with 1/8" section loss on edge of plate

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 5 Beam 11 Near Bearing 11: (PAR) bearing frozen with pack rust

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 5 Beam 10 Near Bearing 10: (PAR) bearing frozen with pack rust

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 5 Beam 9 Near Bearing 9: (PAR) bearing frozen with pack rust

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 5 Beam 8 Near Bearing 8: (PAR) bearing frozen with pack rust

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:	
Bent/Span No.	

Priority Level	Status
	Request Awaiting Assignment

Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 4 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:	
Bent/Span No.	

Priority Level	Status
	Request Awaiting Assignment

Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 4 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 4 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 4 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 1 Beam 8 Far Bearing 8: (PAR) bearing frozen with pack rust

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 1 Beam 9 Far Bearing 9: (PAR) bearing frozen with pack rust

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 1 Beam 10 Far Bearing 10: (PAR) bearing frozen with pack rust

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 1 Beam 7 Far Bearing 7: (PAR) bearing frozen with pack rust

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:	
Bent/Span No.	

Priority Level	Status
	Request Awaiting Assignment

Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 1 Beam 11 Far Bearing 11: (PAR) bearing frozen with pack rust

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:	
Bent/Span No.	

Priority Level	Status
	Request Awaiting Assignment

Submitted Date:	Submitted By:	Assisted By:
01/27/2020	Mike Mills	

Details

Span 1 Beam 11 Near Bearing 11: (PAR) corrosion with section loss (1/8" loss) at plate edges

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	5 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/20/2020	Mike Mills	

Details

Bent 1 Cap 1: (PAR) span 1 face, below bay 9, bottom corner, spall (5' x 8" x 3") with exposed rusted rebar

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	120 LF

Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
01/21/2020	Mike Mills	

Details

Bent 4 Cap 1: (PAR) span 5 face, from beam 8 to 11, longitudinal cracks (1/8" x 30') at top and bottom corners with delamination (up to full height x 30') and spalls (19' x up to 20" x 2") with exposed rusted rebar; cracks and delamination similar on span 4 face

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
0	No Maintenance Required	1 NA

Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
01/15/2020	Mike Mills	

Details
(PAR) northwest guardrail attachment not connected to bridge rail

MMS Code	MMS Description	Quantity
0	No Maintenance Required	3 NA

Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
01/15/2020	Mike Mills	

Details
(PAR) southwest guardrail termination, impact damage (3')

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 110099 County BURKE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
0	No Maintenance Required	15 NA

Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
01/15/2020	Mike Mills	

Details

(PAR) southeast guardrail, at center, impact damage (15')

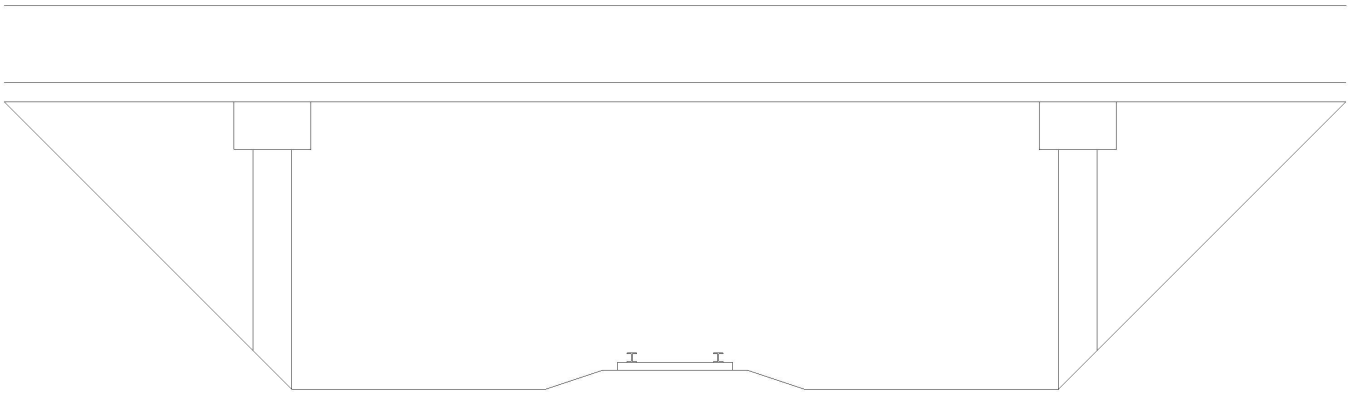
MMS Code	MMS Description	Quantity
0	No Maintenance Required	1 NA

Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
01/15/2020	Mike Mills	

Details

(PAR) northeast guardrail attachment, (1) bolt missing

Bridge Inspection Field Sketch



Measurements Under Span 3

Rail to Rail	5ft	1 set(s) of tracks	Looking: NORTH
Vertical Clearance	21.25ft	Measured from rail 1	at Beam # 11
Distance to Left Bent	10.083ft		
Distance to Left Toe of Slope	8.25ft		
Distance to Right Bent	9.583ft		
Distance to Right Toe of Slope	7.417ft		

1/15/2020 not verified, awaiting rr entry permit

VERIFIED SSP 1/9/18

Title	**Description**
VERTICAL CLEARANCE	CLEARANCE DETAILS

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
110099	DEREK RICKUS	10/31/07	S0142000423

Bridge Inspection Field Sketch

4 THRU LANES ONE REVERSIBLE LANE

2.5 FT CURB AND GUTTER ALONG EDGE OF RDWY.

MEASUREMENTS TAKEN 15 FT FROM SOUTHWEST GUARDRAIL ATTACHMENT

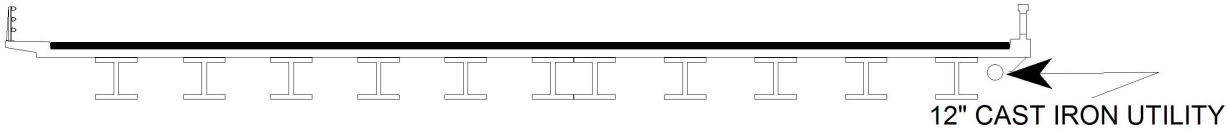
Roadway	60ft Wide	5 Paved Lanes	Looking East
Left Shoulder	9ft Wide	2ft Paved	7ft Unpaved
Right Shoulder	7ft Wide	2ft Paved	5ft Unpaved
Left Guardrail	8.5ft from road		
Right Guardrail	5ft from road		

Title	**Description**
APPROACH	APPROACH DETAILS

Bridge No: 110099	**Drawn By:** ITChapman	**Date:** 1/15/2020	**File Name:** S0142000424

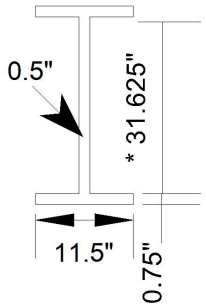
Bridge Inspection Field Sketch

Deck Width/Out to Out	74.333ft	Between Rails			72ft
Clear Roadway	64ft	Wearing Surface			0.45ft
Median Width		Median Height			
Curb Height		Left	0.3ft	Right	0.3ft
Sidewalk Width		Left	5ft	Right	3ft
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	* 0.42ft	Right	* 0.75ft
Top of Rail to Deck/Wearing Surface		Left	* 3.75ft	Right	3.217ft
Bridge Rail		Left	Type 3	Right	Type 31

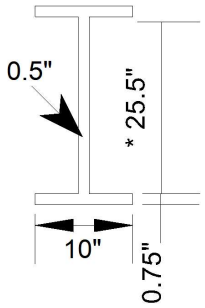


Measurements for Span #	1		
Deck Thickness	0.542	Left Overhang	5.09
Top of Rail to Bottom of Beam	7.083	Right Overhang	4.083

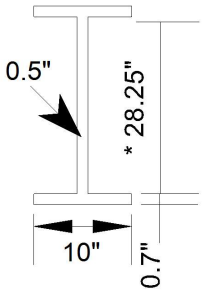
Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	6.83ft	
2	Steel I Beam	6.75ft	
3	Steel I Beam	6.75ft	
4	Steel I Beam	6.77ft	
5	Steel I Beam	6.75ft	
6	Steel I Beam	3.25ft	
7	Steel I Beam	7.02ft	
8	Steel I Beam	7.02ft	
9	Steel I Beam	7.01ft	
10	Steel I Beam	7.01ft	
11	Steel I Beam		



W33
Span 1: BM1
Span 2: BM1
Span 3: All BMS



W27
Span 1: BM2-11
Span 2: BM7-11



W30
Span 1: BM2-11
Span 2: BM2-6

* Revised: ITChapman 1/15/2020, sketch regenerated

Title	Description
DECK SECTION	LOOKING EAST

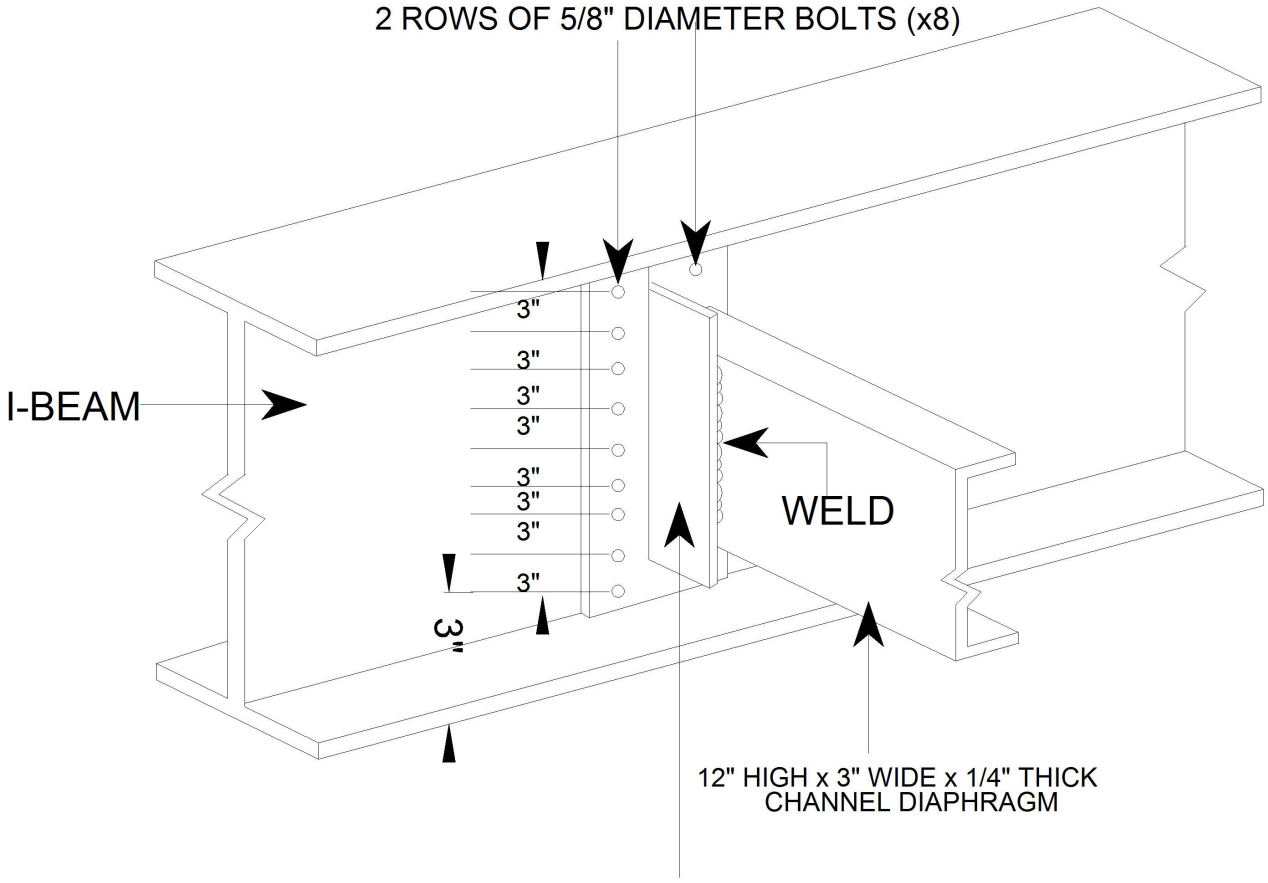
Bridge No:	Drawn By:	Date:	File Name:
110099	DEREK RICKUS	10/31/07	S0142000425

Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

LOCATIONS : MIDSPAN

NOTE : SKETCH IS FOR DIAPHRAMS ON 27" BEAMS. DIAPHRAGMS ON DEEPER BEAMS HAVE LONGER T-BRACKETS AND 2 ADDITIONAL BOLTS.



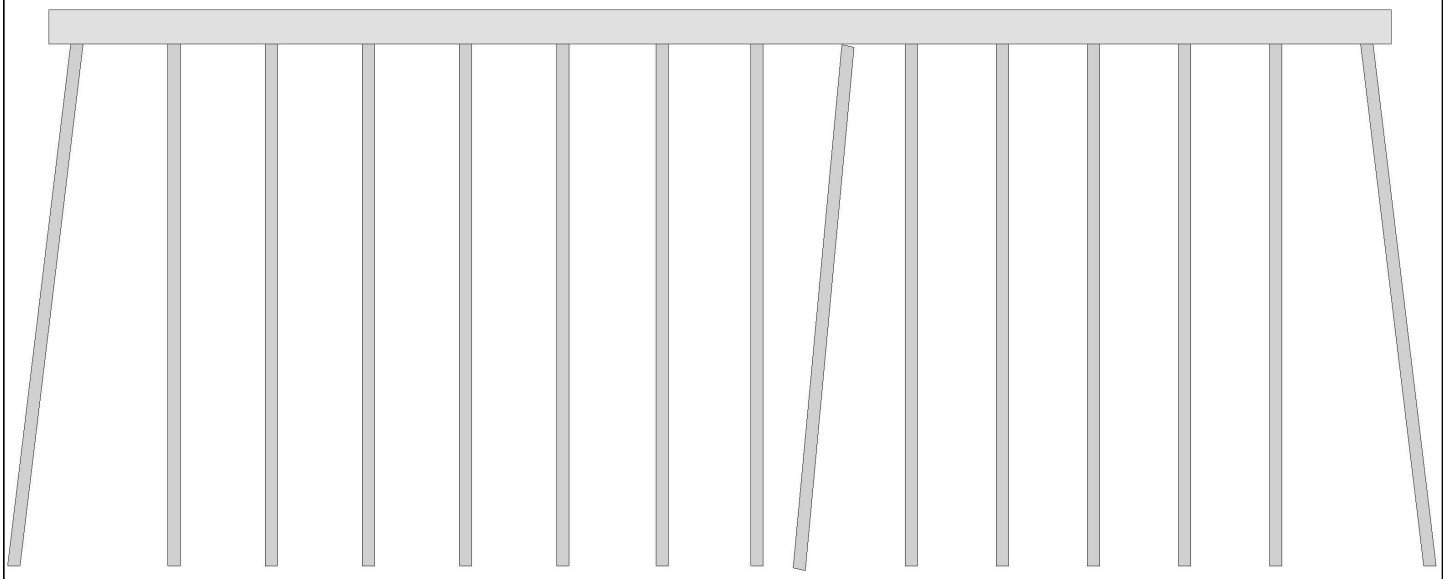
24" HIGH x 7 1/2" WIDE x 9" DEEP STEEL T-BRACKET WELDED TO WEB OF CHANNEL DIAPHRAGM AND BOLTED TO WEB OF BEAM

VERIFIED SSP 1/9/18

Title	Description
INTERMEDIATE DIAPHRAGMS	DIAPHRAGM DETAILS

Bridge No:	Drawn By:	Date:	File Name:
110099	DELVIN ADAMS	1/9/2012	S0146031600

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
110.56ft.	2.500 ft.	2.830 ft.	1.88 ft.	1.47 ft.	2.300 ft.	1.500 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Steel	8.22 ft.	1.021 ft.	0.979 ft.		Battered	Yes	No	No	No
2	Steel	7.95 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
3	Steel	7.92 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
4	Steel	8.01 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
5	Steel	8.01 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
6	Steel	8.16 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
7	Steel	7.80 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
8	Steel	4.65 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
9	Steel	8.01 ft.	1.021 ft.	0.979 ft.		Battered	Yes	No	No	No
10	Steel	7.65 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
11	Steel	7.84 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
12	Steel	7.50 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
13	Steel	7.64 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
14	Steel	7.85 ft.	1.021 ft.	0.979 ft.		Vertical	Yes	No	No	No
15	Steel		1.021 ft.	0.979 ft.		Battered	Yes	No	No	No

Bent/Abutment #: 2 Similar Bents:

Title 1/15/2020 not verified, awaiting rr entry permit

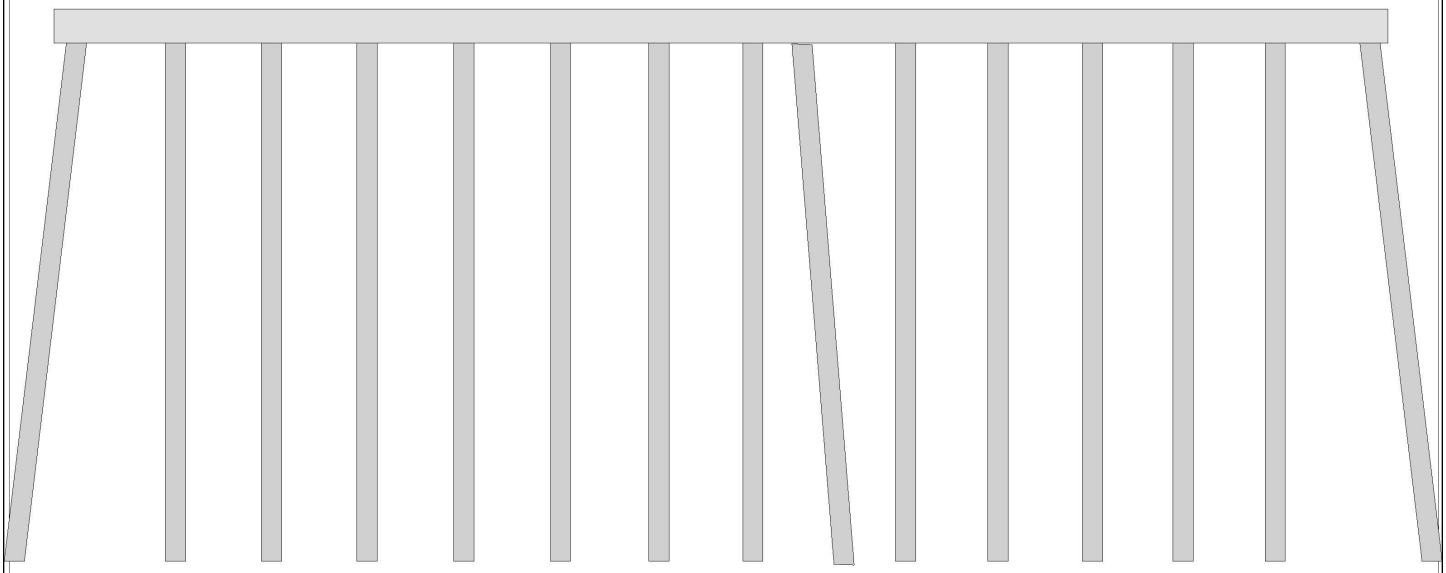
BENT 2 VERIFIED SSP 1/9/18

Description

BENT 2

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
110099	ERIC A. PATTERSON	1/8/2014	S0146031960

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
110.560 ft.	2.500 ft.	2.830 ft.	1.880 ft.	1.470 ft.	2.15 ft.	1.50 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	STEEL H-PILES WITH FULL CONCRETE ENCASEMENT

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	8.22 ft.	1.67 ft.	1.67 ft.		Battered	Yes	No	No	No
2	Concrete	7.95 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
3	Concrete	7.92 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
4	Concrete	8.01 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
5	Concrete	8.01 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
6	Concrete	8.16 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
7	Concrete	7.80 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
8	Concrete	4.65 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
9	Concrete	8.01 ft.	1.67 ft.	1.67 ft.		Battered	Yes	No	No	No
10	Concrete	7.65 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
11	Concrete	7.84 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
12	Concrete	7.50 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
13	Concrete	7.64 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
14	Concrete	7.85 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
15	Concrete		1.67 ft.	1.67 ft.		Battered	Yes	No	No	No

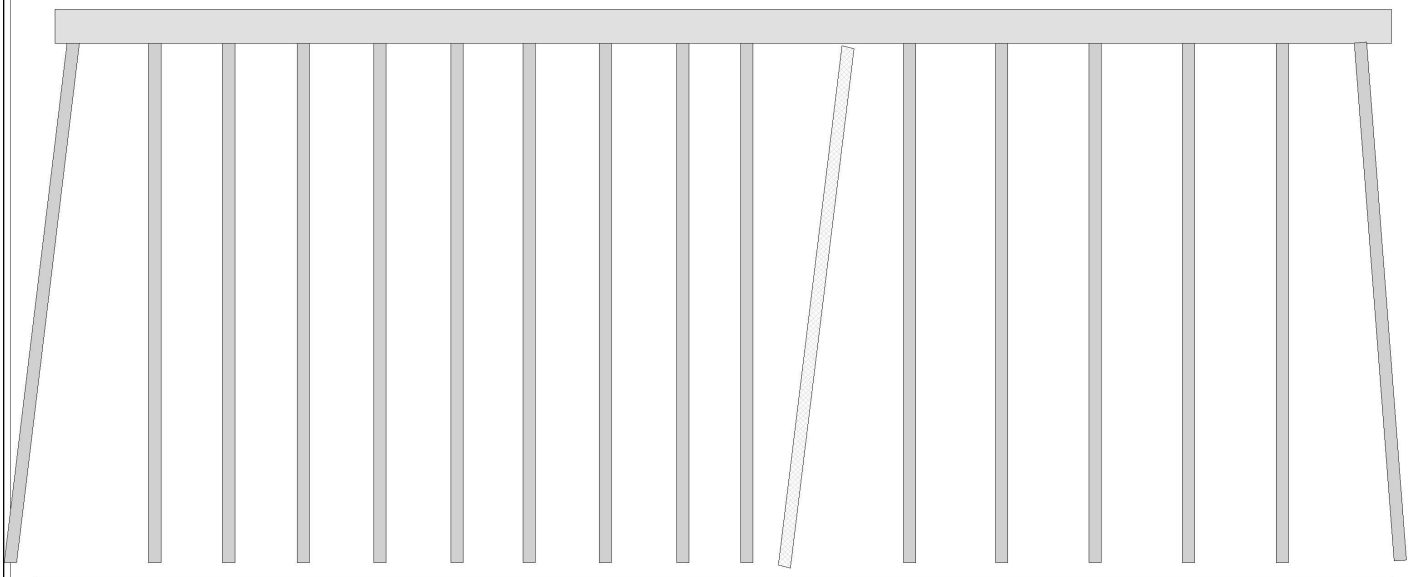
Bent/Abutment #: 1 Similar Bents:

Title
BENT 1
Verified: ITChapman 1/15/2020

Description
LOOKING EAST

Bridge No: 110099 **Drawn By:** H.W. HICKS, JR. **Date:** 1/17/2016 **File Name:** S0318000899

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
110.550 ft.	2.500 ft.	2.830 ft.	1.510 ft.	1.470 ft.	2.150 ft.	1.500 ft.

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Steel	6.75 ft.	1.02 ft.	0.98 ft.		Battered	Yes	No	No	No
2	Steel	6.11 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
3	Steel	6.17 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
4	Steel	6.33 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
5	Steel	6.38 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
6	Steel	5.97 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
7	Steel	6.30 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
8	Steel	6.41 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
9	Steel	5.31 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
10	Steel	5.00 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
11	Steel	8.45 ft.	1.02 ft.	0.98 ft.		Battered	No	No	No	No
12	Steel	7.62 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
13	Steel	7.72 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
14	Steel	7.75 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
15	Steel	7.75 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
16	Steel	7.55 ft.	1.02 ft.	0.98 ft.		Vertical	Yes	No	No	No
17	Steel		1.02 ft.	0.98 ft.		Battered	Yes	No	No	No

STEEL H-PILES ENCASED IN CONCRETE 1' ABOVE GROUNDLINE

1/15/2020 not verified, awaiting rr entry permit

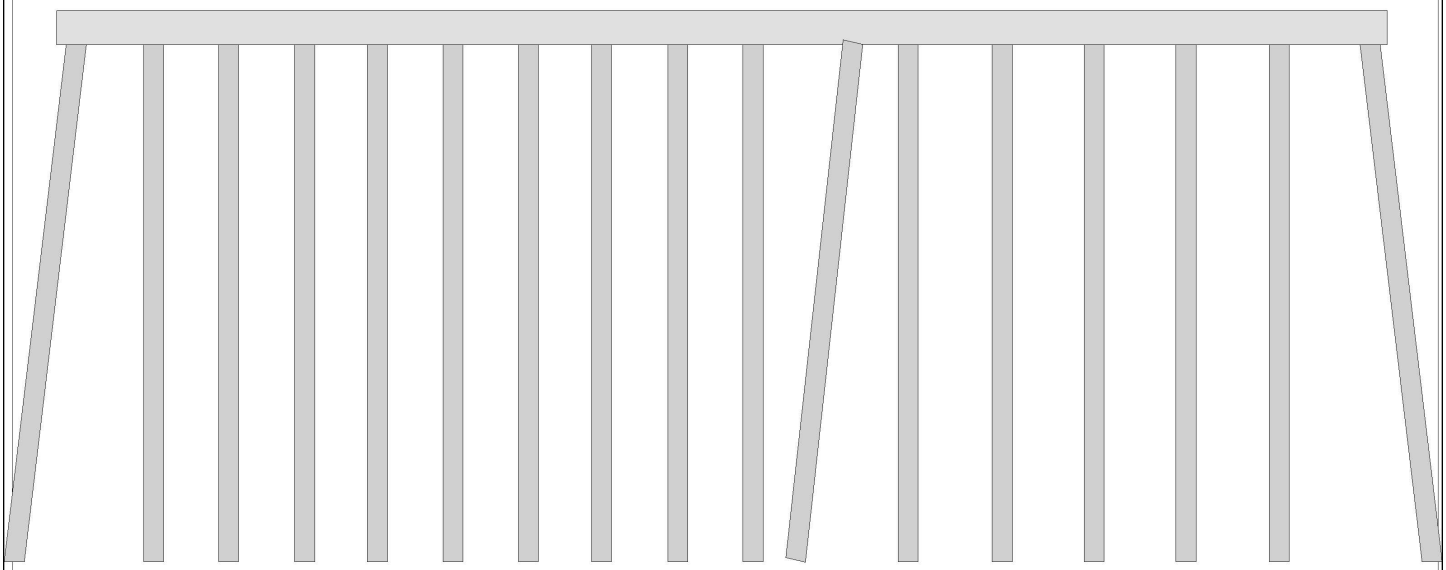
VERIFIED SSP 1/9/18

Bent/Abutment #: 3 Similar Bents:

Title	Description
BENT 3	BT.3 ONLY

Bridge No:	Drawn By:	Date:	File Name:
110099	H.W. HICKS, JR.	1/18/2016	S0318000900

Bridge Inspection Field Sketch



Cap Information — Material: Cast-in-Place Concrete

Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
110.550 ft.	2.500 ft.	2.830 ft.	1.630 ft.	1.430 ft.	2.150 ft.	1.500 ft.

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	6.42 ft.	1.67 ft.	1.67 ft.		Battered	Yes	No	No	No
2	Concrete	6.23 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
3	Concrete	6.32 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
4	Concrete	6.04 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
5	Concrete	6.29 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
6	Concrete	6.26 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
7	Concrete	6.07 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
8	Concrete	6.35 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
9	Concrete	6.25 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
10	Concrete	4.47 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
11	Concrete	8.40 ft.	1.67 ft.	1.67 ft.		Battered	Yes	No	No	No
12	Concrete	7.83 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
13	Concrete	7.62 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
14	Concrete	7.65 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
15	Concrete	7.74 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
16	Concrete	7.55 ft.	1.67 ft.	1.67 ft.		Vertical	Yes	No	No	No
17	Concrete		1.67 ft.	1.67 ft.		Battered	Yes	No	No	No

STEEL H-PILES CONCRETE ENCASED

Verified: ITChapman 1/15/2020

Bent/Abutment #: 4 Similar Bents:

Title	Description
BENT 4	LOOKING EAST

Bridge No:	Drawn By:	Date:	File Name:
110099	H.W. HICKS, JR.	1/18/2016	S0318000901