NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY ACTION REQUEST ISSUED

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 11/04/2019

DIVISION: 4 **COUNTY:** JOHNSTON **STRUCTURE NUMBER:** 500037 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: US301, NC96 **MILE POST:**

LOCATION: 0.2 MI N JCT US701 &US301

FEATURE INTERSECTED: CSX RR

LATITUDE: 35° 27' 41.06" **LONGITUDE:** 78° 23' 21.72"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE: ABUTMENTS:RC SPILL THROUGH, INT. BENTS:RC POST & BEAM

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** 5 **SUBSTRUCTURE** 5 **CULVERT** N

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

OTHER SIGNS PRESENT: 4 DELINEATORS

Looking north

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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
Rick Wertman		Jim Stocks

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

02/19/2020

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **500037**
(8) STRUCTURE NUMBER (FEDERAL) **1010037**
(5) INVENTORY ROUTE (ON/UNDER) ON **121003010**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **4**
(3) COUNTY CODE (FEDERAL) **101** (4) PLACE CODE **24520**
(6) FEATURE INTERSECTED **CSX RR**
(7) FACILITY CARRIED **US301, NC96**
(9) LOCATION **0.2 MI N JCT US701 &US301**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **1**
(13) LRS INVENTORY ROUTE & SUBROUTE **20301**
(16) LATITUDE **35° 27' 41.06"** (17) LONGITUDE **78° 23' 21.72"**
(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 **1926**
(106) YEAR RECONSTRUCTED **1954. 00000000000000**
(42) TYPE OF SERVICE ON - **Highway**
OFF - **Railroad** CODE **12**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **0**
(29) AVERAGE DAILY TRAFFIC **8300**
(30) YEAR OF ADT **2015** (109) TRUCK ADT PCT **6**
(19) BYPASS OR DETOUR LENGTH **1.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **47.0**
(49) STRUCTURE LENGTH **189.0**
(50) CURB OR SIDEWALK: LEFT **1.6** RIGHT **1.6**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **30.1**
(52) DECK WIDTH OUT TO OUT **35.4**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **31.0**
(33) BRIDGE MEDIAN **No median** CODE **0**
(34) SKEW **40** (35) STRUCTURE FLARED **0**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR **30.1**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **R** **21.3**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **R** **11.8**
(56) MIN LAT UNDERCLEARANCE LT: **0.0**

NAVIGATION DATA

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

SUFFICIENCY RATING **59.68**
STATUS = **Functionally Obsolete**

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route is on NHS** **1**
(26) FUNCTIONAL CLASS **Urban Minor Collector** **16**
(100) STRAHNET HIGHWAY **Not a STRAHNET Route** **0**
(101) PARALLEL STRUCTURE **No parallel structure exists** **N**
(102) DIRECTION OF TRAFFIC **2-way traffic** **2**
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - **on national network for trucks** **0**
(20) TOLL **On Free Road** **3**
(21) MAINT - **01**
(22) OWNER - **01**
(37) HISTORICAL SIGNIFICANCE - **5**

CONDITION — CODE

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

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD **HS20** **5**
(63) OPERATING RATING METHOD - **Load Factor** **1**
(64) OPERATING RATING - **HS-23** **44**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-14** **26**
(70) BRIDGE POSTING **No Posting Required** **5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **A**
DESCRIPTION **Open, no restriction**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **5**
(68) DECK GEOMETRY **3**
(69) UNDERCLEARANCES, VERT & HORIZ **5**
(71) WATERWAY ADEQUACY **5**
(72) APPROACH ROADWAY ALIGNMENT **3**
(36) TRAFFIC SAFETY FEATURES **0111**
(113) SCOUR CRITICAL BRIDGES **N**

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114) FUTURE ADT **16,600** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **11/19** (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 **500037** County **JOHNSTON** Run Date **02/19/2020**

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	CSX RR	80000000										R	21.3	11.8		5			☐	☐

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** 38.0000 **Skew** 50.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1140 Square Feet		
5	Plate Girder	Steel Open Girder/Beam	190 Feet	Legacy Red Lead Primer Systems with Various Topcoats	1560
2	Concrete Railing	Reinforced Concrete Bridge Railing	76 Feet		
10	Other Bearing	Other Bearings	10 Each	Unknow	10
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1273 Square Feet		

Span Number 2 **Span Length** 37.5000 **Skew** 50.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1257 Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	76 Feet		
10	Other Bearing	Other Bearings	10 Each	Unknow	10
1	Asphalt Wearing Surface	Wearing Surface	1125 Square Feet		
1	Standard Joint	Pourable Joint Seal	40 Feet		
5	Plate Girder	Steel Open Girder/Beam	190 Feet	Legacy Red Lead Primer Systems with Various Topcoats	1540

Span Number 3 **Span Length** 47.5000 **Skew** 50.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	96 Feet		
5	Plate Girder	Steel Open Girder/Beam	240 Feet	Legacy Red Lead Primer Systems with Various Topcoats	2300
1	Asphalt Wearing Surface	Wearing Surface	1425 Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1592 Square Feet		
10	Other Bearing	Other Bearings	10 Each	Unknow	10
1	Standard Joint	Pourable Joint Seal	40 Feet		

Span Number 4 **Span Length** 32.5000 **Skew** 50.0000

Superstructure Build Details

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	66	Feet		
1	Asphalt Wearing Surface	Wearing Surface	975	Square Feet		
5	Plate Girder	Steel Open Girder/Beam	165	Feet	Legacy Red Lead Primer Systems with Various Topcoats	1230
1	Standard Joint	Pourable Joint Seal	40	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1089	Square Feet		
10	Other Bearing	Other Bearings	10	Each	Unknow	10

Span Number 5 **Span Length** 33.0000 **Skew** 50.0000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
5	Plate Girder	Steel Open Girder/Beam	165	Feet	Legacy Red Lead Primer Systems with Various Topcoats	1285
1	Asphalt Wearing Surface	Wearing Surface	990	Square Feet		
1	Concrete Railing	Reinforced Concrete Bridge Railing	33	Feet		
1	Standard Joint	Pourable Joint Seal	40	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1106	Square Feet		
10	Other Bearing	Other Bearings	10	Each	Unknow	10
1	Concrete Railing	Reinforced Concrete Bridge Railing	33	Feet	Unknow	33

Structure Element Scoring

Structure Number: **500037** Inspection Date **11/4/2019**

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	6317	6298	12	7	0
107	0	Steel Open Girder/Beam	Beam	950	552	365	15	18
515	107	Steel Protective Coating	Beam	7915	6618	324	937	36
205	0	Reinforced Concrete Column	Piles and Columns	8	2	2	4	0
215	0	Reinforced Concrete Abutment	Abutments	120	115	3	2	0
234	0	Reinforced Concrete Pier Cap	Caps	256	206	21	29	0
301	0	Pourable Joint Seal	Expansion Joints	160	160	0	0	0
316	0	Other Bearings	Bearing Device	50	6	32	12	0
515	316	Steel Protective Coating	Bearing Device	50	6	12	23	9
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	380	238	8	134	0
510	0	Wearing Surface	Wearing Surfaces	5655	4234	0	1421	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **500037** Inspection Date: **11/04/2019**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	9 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	10 Square Feet
3314	Steel Open Girder/Beam	Corrosion	33 Feet
3314	Steel Open Girder/Beam	Damage	1 Feet
3348	Reinforced Concrete Column	Delamination/Spall	32 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	22 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	3 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	24 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	13 Feet
3334	Other Bearings	Corrosion	11 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	9 Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	133 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	6 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	1415 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	750 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	591 Square Feet

Element Structure Maintenance Quantities

Structure Number: **500037** Inspection Date **11/04/2019**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	3	120	0	2	3	115
Beam	3314	Maintenance Steel Superstructure Components	34	950	18	15	365	552
Beam	3342	Clean and Paint Steel	1297	7915	36	937	324	6618
Bearing Device	3334	Bridge Bearing	11	50	0	12	32	6
Bearing Device	3342	Clean and Paint Steel	44	50	9	23	12	6
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	142	380	0	134	8	238
Caps	3348	Maintenance of Concrete Substructure	37	256	0	29	21	206
Deck	3326	Maintenance of Concrete Deck	19	6317	0	7	12	6298
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	160	0	0	0	160
Piles and Columns	3348	Maintenance of Concrete Substructure	54	8	0	4	2	2
Wearing Surfaces	2816	Asphalt Surface Repair	1421	5655	0	1421	0	4234

Priority Actions Request

Structure Number **500037**

Span3

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 3 Beam 1: PAR--CORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3
2	Corrosion	4	Span 3 Beam 1: PAR--SECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2

Span4

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 4 Beam 1: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 5: PAR--SECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT EXTEND OUT TO DEFECT.

Span5

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 2: PAR--1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 5 Beam 5: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.

Bent 3

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

Priority Actions Request

Structure Number **500037**

3348 **Pile 2** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	3	Bent 3 Pile 2: PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS

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

Element Condition and Maintenance Data

Structure Number: **500037** Inspection Date: **11/04/2019**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,273	1,271	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACK IN UNDERSIDE RIGHT OVERHANG AT 12 FT FROM END BENT 1	2	2	2	Square Feet

General Comments

Span 1 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	0	37	1	0	Feet
515	Steel Protective Coating	312	261	0	51	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 7/16" REMAINING SECTION IN WEB 1 FT HIGH AROUND END DIAPHRAGM AT BENT 1	3	1	1	Feet
107	Damage	4" X 3" X 18" SPALL WITH EXPOSED REBAR IN WEST OVERHANG AT BENT 1 END DIAPHRAGM AT BEAM 1	3		1	Feet
107	Corrosion	SURFACE CORROSION ON BOTTOM FLANGE EXTENDING UP TO 10 FT FROM BENT 1	2	6		Feet
107	Corrosion	CORROSION ON BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS EXTENDING 4 FT FROM THE END AT BENT 1	2	4		Feet
107	Corrosion	SURFACE CORROSION BOTTOM FLANGE WEST FACE AT END BENT 1	2	1		Feet
107	Corrosion	SURFACE CORROSION ON BOTH EDGES OF TOP FLANGE FULL LENGTH	2	26		Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 1	3	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS AT BOTTOM FLANGE AT END BENT 1	3	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS BOTH EDGES OF TOP FLANGE FULL LENGTH	3	15	15	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB, MAINLY EAST FACE NEAR BENT 1 AND AT RANDOM	3	30	30	Square Feet

General Comments

Span 1 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	37	1	0	0	Feet
515	Steel Protective Coating	312	282	0	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1, 10" HIGH X 1 FT LONG	2	1		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB WEST FACE AT RANDOM	3	30	30	Square Feet

General Comments

NEW PAINT AT BENT 1 END ON WEB AND BOTTOM FLANGE EXCEPT BOTTOM OF BOTTOM FLANGE WITHIN 1 FT OF BEARING

Span 1 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	31	7	0	0	Feet
515	Steel Protective Coating	312	276	0	36	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	SURFACE CORROSION BOTTOM OF BOTTOM FLANGE FROM 5 FT TO 10 FT FROM BENT 1	2	5		Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1 AROUND END DIAPHRAGM	2	1		Feet
107	Corrosion	SURFACE CORROSION ON BOTTOM FLANGE AT BENT 1	2	1		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB AT RANDOM	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS BOTTOM OF BOTTOM FLANGE FROM 5 FT TO 10 FT FROM BENT 1	3	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS ON BOTTOM FLANGE AT BENT 1	3	1	1	Square Feet

General Comments

PORTIONS OF WEB AND BOTTOM FLANGE NEAR BENT 1 HAVE BEEN PAINTED SINCE 2015 INSPECTION

Span 1 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	37	1	0	0	Feet
515	Steel Protective Coating	312	282	0	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1	2	1		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB AT RANDOM	3	30	30	Square Feet

General Comments

PORTIONS OF WEB AND BOTTOM FLANGE NEAR BENT 1 HAVE BEEN PAINTED SINCE 2015 INSPECTION

Span 1 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	22	16	0	0	Feet
515	Steel Protective Coating	312	250	0	62	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AROUND END DIAPHRAGM AT BENT 1 EAST FACE	2	1		Feet
107	Corrosion	SURFACE CORROSION ON EDGES OF TOP FLANGE BOTH SIDES AT RANDOM WHERE PAINT HAS PEELED	2	15		Feet
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.	3	32	32	Square Feet

515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB AT RANDOM	3	30	30	Square Feet	

General Comments

PORTIONS OF WEB AND BOTTOM FLANGE NEAR BENT 1 HAVE BEEN PAINTED SINCE 2015 INSPECTION

Span 1 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,140	760	0	380	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking up to 1/4" wide in travel lanes	3	300	300	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP CRACKING UP TO 1/2" WIDE OVER END BENT 1 AND BENT 1, BENT 1 SHOWN	3	80	80	Square Feet

General Comments

Span 1 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	38	27	0	11	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	10	10	Feet
331	Delamination/Spall	4" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR AT END POST AT SOUTHWEST CORNER	3	1	1	Feet

General Comments

Span 1 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	38	25	1	12	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	12	12	Feet
331	Delamination/Spall	3" X 1" X 1/2" DEEP SPALL WITH EXPOSED REBAR IN TOP OF CURB AT GUARDRAIL ATTACHMENT	2	1	1	Feet

General Comments

Span 1 — Near Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

316	Corrosion	CORROSION WITH NO MEASURABLE SECTION LOSS	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	3	1	1	Square Feet

General Comments

Span 1 — Far Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED	4	1	1	Square Feet

General Comments

Span 1 — Far Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PROTECTIVE COATING	3	1	1	Square Feet

General Comments

Span 1 — Far Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED	4	1	1	Square Feet

General Comments

Span 1 Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	3	1	1	Square Feet

General Comments

Span 1 Far Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PROTECTIVE COATING	3	1	1	Square Feet

General Comments

Span 1 Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	3	1	1	Square Feet

General Comments

Span 1 Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel	PAINT FAILED	4	1	1	Square Feet

Protective Coatings)

General Comments

Span 2 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	31	6	1	0	Feet
515	Steel Protective Coating	308	273	0	35	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 1/2" REMAINING SECTION IN BOTTOM FLANGE AND 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER AND ARRESTED.	3	1	1	Feet
107	Corrosion	5 FT. OF SURFACE CORROSION ON BOTTOM FLANGE NEAR BENT 2	2	5		Feet
107	Corrosion	PREVIOUS SECTION LOSS HAS BEEN PAINTED OVER AND ARRESTED 7/16" THICKNESS REMAINING AT WEB 1 FT HIGH AT BENT 1 END	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS ON BOTTOM OF BOTTOM FLANGE AT BENT 2	3	5	5	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet

General Comments

NEW PAINT FOR 4 FT AT BENT 1 SINCE 2015 INSPECTION

Span 2 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	21	17	0	0	Feet
515	Steel Protective Coating	308	263	0	45	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PITTING 1/16" DEEP ON WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED	2	1		Feet
107	Corrosion	PITTING AT WEB UP TO 1/16" DEEP AT BENT 1 END HAS BEEN PAINTED OVER, 1 FT HIGH	2	1		Feet
107	Corrosion	SURFACE CORROSION ALONG BOTTOM FLANGE AT RANDOM	2	15		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS ALONG BOTTOM FLANGE AT RANDOM	3	15	15	Square Feet

General Comments

NEW PAINT AT BENT 1 END WEB AND BOTTOM FLANGE AND BENT 2 BOTTOM FLANGE SINCE 2015 INSPECTION

Span 2 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	36	2	0	0	Feet
515	Steel Protective Coating	308	278	0	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1	2	1		Feet
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER	2	1		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet

General Comments

NEW PAINT AT WEB AND BOTTOM FLANGE AT BOTH ENDS SINCE 2015 INSPECTION

Span 2 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	36	2	0	0	Feet
515	Steel Protective Coating	308	278	0	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED	2	1		Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AROUND BENT 1 END DIAPHRAGM	2	1		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet

General Comments

NEW PAINT ON WEB AND BOTTOM FLANGE AT BOTH ENDS SINCE 2015 INSPECTION

Span 2 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	16	21	1	0	Feet
515	Steel Protective Coating	308	246	0	62	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 1/2" X FULL WIDTH REMAINING SECTION IN BOTTOM FLANGE AND 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED WITH ACTIVE SURFACE CORROSION.	3	1	1	Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AROUND END DIAPHRAGM AT BENT 1	2	1		Feet
107	Corrosion	SURFACE CORROSION ALONG TOP FLANGE BOTH EDGES AT RANDOM WHERE PAINT HAS PEELED	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail	3	32	32	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet

Coatings)

General Comments

NEW PAINT AT WEB AND BOTTOM FLANGE AT BOTH ENDS SINCE 2015 INSPECTION

Span 2 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,125	785	0	340	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking up to 1/4" wide in travel lanes	3	300	300	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP CRACKING UP TO 1/2" WIDE OVER BENT 2,	3	40	40	Square Feet

General Comments

Span 2 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	38	28	0	10	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	10	10	Feet

General Comments

Span 2 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	38	26	0	12	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	12	12	Feet

General Comments

Span 2 — Near Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PROTECTIVE COATING	3	1	1	Square Feet

General Comments

Span 2 — Far Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	3	1	1	Square Feet

General Comments

Span 2 — Far Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Surface rust present	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail	3	1	1	Square Feet

General Comments

Span 2 — Near Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel	LIMITED EFFECTIVENESS OF PROTECTIVE COATING	3	1	1	Square Feet

Protective Coatings)

General Comments

Span 2 Far Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED	4	1	1	Square Feet

General Comments

Span 2 Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PROTECTIVE COATING	3	1	1	Square Feet

General Comments

Span 2 Far Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED	4	1	1	Square Feet

General Comments

Span 2 — Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	3	1	1	Square Feet

General Comments

Span 2 — Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED	4	1	1	Square Feet

General Comments

Span 2 — Expansion Joint at Bent 1

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	40	40	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Not visible

Span 3 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,592	1,590	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	18" X 12" X 2" DEEP SPALL WITH EXPOSED REBAR IN UNDERSIDE OF LEFT OVERHANG NEAR MID SPAN. MULTIPLE EXPOSED BARS TRANSVERSE AND LONGITUDINAL HAVE SECTION LOSS WITH 50% AREA REMAINING (PRIORITY MAINTENANCE)	3	2	2	Square Feet

General Comments

Span 3 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	48	24	15	0	9	Feet
515	Steel Protective Coating	460	370	0	80	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	PAR--CORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3	4	5	5	Feet
107	Corrosion	PAR--SECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2	4	4	4	Feet
107	Corrosion	SURFACE RUST ON TOP AND BOTTOM FLANGES AT VARIOUS LOCATIONS ALONG BEAM.	2	15		Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 2	4	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 3	4	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	50	50	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet

General Comments

Span 3 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	48	20	27	1	0	Feet
515	Steel Protective Coating	460	424	0	35	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF ACTIVE CORROSION WITH 9/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2	3	1	1	Feet
107	Corrosion	SURFACE RUST ON TOP AND BOTTOM FLANGES AT VARIOUS LOCATIONS ALONG BEAM.	2	12		Feet
107	Corrosion	FRECKLED RUST ON WEB AT RANDOM	2	10		Feet
107	Corrosion	SURFACE CORROSION OF WEB AND BOTTOM FLANGE AT BENT 3	2	5		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AT BENT 2	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS AT WEB AND BOTTOM FLANGE AT BENT 3	3	5	5	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet

General Comments

Span 3 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	48	19	25	4	0	Feet
515	Steel Protective Coating	460	423	0	35	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF ACTIVE CORROSION WITH 9/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2	3	1	1	Feet
107	Corrosion	3 FT. OF ACTIVE CORROSION WITH 3/4" REMAINING SECTION IN BOTTOM FLANGE AND 9/16" REMAINING SECTION 1 FT LONG IN WEB AROUND END DIAPHRAGM AT BENT 3	3	3	3	Feet
107	Corrosion	5 FT. OF SURFACE CORROSION ON BOTTOM FLANGE AND LOWER WEB NO MEASURABLE SECTION LOSS AT BENT 3	2	5		Feet
107	Corrosion	SURFACE CORROSION OF BOTTOM FLANGE AT RANDOM WHERE PAINT HAS PEELED	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 3	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AT BENT 2	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 3	3	5	5	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet

General Comments

Span 3 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	48	46	1	1	0	Feet
515	Steel Protective Coating	460	428	0	31	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF ACTIVE CORROSION WITH 9/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 3	3	1	1	Feet
107	Corrosion	1 FT. OF SURFACE CORROSION ON WEB AROUND END DIAPHRAGM AT BENT 2	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AT BENT 3	4	1	1	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AT BENT 2	3	1	1	Square Feet

General Comments

Span 3 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	48	35	9	4	0	Feet
515	Steel Protective Coating	460	419	0	35	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	4 FT. OF ACTIVE CORROSION WITH 1/2" REMAINING SECTION IN WEB AROUND DIAPHRAM AND BOTTOM 6" OF WEB AND 3/4" THICKNESS REMAINING FULL WIDTH BOTTOM FLANGE AT BENT 2 BEAM ENDS HAVE BEEN PAINTED WITH ACTIVE SURFACE CORROSION	3	4	4	Feet
107	Corrosion	SURFACE CORROSION 1FT LONG BOTTOM FLANGE AT BENT 3 NO SECTION LOSS	2	4		Feet
107	Corrosion	5 FT. OF SURFACE CORROSION 1FT LONG ON WEB AT BENT 3	2	5		Feet
515	Effectiveness (Steel Protective Coatings)	6 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AND BOTTOM FLANGE AT BENT 2	4	6	6	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AT BENT 3	3	5	5	Square Feet

General Comments

Span 3 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,425	1,182	0	243	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking up to 3/16" wide in travel lanes	3	200	200	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP CRACK UP TO 2" WIDE WITH ASPHALT DETERIORATION WITH UP TO 3/4" DEEP POT HOLES UP TO 1' LONG X 2" WIDE OVER BENT 3	3	40	40	Square Feet
510	Patched Area/Pothole (Wearing Surface)	3' Long x 6" wide x 2 1/2" deep pothole at right shoulder at pier 3	3	3	3	Square Feet

General Comments

Span 3 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	48	27	1	20	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	20	20	Feet
331	Delamination/Spall	3" X 3/4" X 1/4" DEEP SPALL WITH EXPOSED REBAR IN TOP OF CURB AT 15 FT FROM BENT 2	2	1	1	Feet

General Comments

Span 3 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	48	32	1	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	15	15	Feet
331	Delamination/Spall	3" X 1" X 1/2" DEEP SPALL WITH EXPOSED REBAR IN FACE OF RAIL POST AT BENT 2	2	1	1	Feet

General Comments

Span 3 — Near Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Far Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Near Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Far Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Near Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Far Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	2	1		Each

515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet	

General Comments

Span 3 — Far Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

Span 3 — Expansion Joint at Bent 2

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	40	40	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Not visible

Span 4 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	7	23	0	3	Feet
515	Steel Protective Coating	246	170	40	30	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.	4	3	3	Feet
107	Corrosion	2 FT. OF PREVIOUS CORROSION WITH UP TO 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND BOTTOM 3" OF WEB 3' LONG AT BENT 4 AREA HAS BEEN CLEANED AND PAINTED OVER	2	3		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed.	4	6	6	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	40	40	Square Feet

General Comments

BOLTED PLATE REPAIR FULL HEIGHT X 1' LONG TO WEB AT BENT 3
NEW PAINT AT BOTH BEAM ENDS

Span 4 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	20	13	0	0	Feet
515	Steel Protective Coating	246	196	20	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 PAINTED OVER	2	1		Feet
107	Corrosion	1 FT. OF CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 3 HAS BEEN PAINTED OVER	2	1		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	10		Feet
107	Corrosion	Section loss up to 3/16" with 3/4" average remaining 1' long at beam end over pier 3. Beam end has been cleaned and painted.	2	1		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	20	20	Square Feet

General Comments

NEW PAINT AT BOTH ENDS SINCE 2015 INSPECTION

Span 4 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	22	11	0	0	Feet
515	Steel Protective Coating	246	196	20	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 PAINTED OVER	2	1		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	10		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	20	20	Square Feet

General Comments

BOLTED PLATE REPAIR TO WEB ON BEAM 3 SPAN 4 24" X 24" AT BENT 3 END BOTH FACES
NEW PAINT AT BOTH ENDS

Span 4 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	11	22	0	0	Feet
515	Steel Protective Coating	246	175	40	31	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF SURFACE CORROSION ON BOTTOM FLANGE AND PITTNG WEB AT BENT 4	2	1		Feet
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 3 HAS BEEN PAINTED	2	1		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	20		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 4	3	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	40	40	Square Feet

General Comments

NEW PAINT AT BENT 3 END SINCE 2015 INSPECTION

Span 4 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	6	26	0	1	Feet
515	Steel Protective Coating	246	163	50	31	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	PAR--SECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT	4	1	1	Feet

		EXTEND OUT TO DEFECT.				
107	Corrosion	1 FT. OF SURFACE CORROSION ON BOTTOM FLANGE AND WEB AT BENT 4	2	1		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	25		Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed.	4	2	2	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 4	3	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	50	50	Square Feet

General Comments

BOLTED PLATE REPAIR 24" X 24" TO WEB BOTH SIDES AND 24" BOTTOM FLANGE WEST SIDE BEAM 5 SPAN 4 AT BENT 3
NEW PAINT AT BOTH ENDS

Span 4 — Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	975	707	0	268	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking up to 1/8" wide in travel lanes	3	225	225	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP CRACKING UP TO 1/2" WIDE OVER BENT 4,	3	40	40	Square Feet
510	Patched Area/Pothole (Wearing Surface)	3' Long x 6" wide x 2 1/2" deep pothole at left shoulder at pier 3	3	3	3	Square Feet

General Comments

Span 4 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	33	20	1	12	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	12	12	Feet
331	Delamination/Spall	3" X 1" X 1/2" DEEP SPALL WITH EXPOSED REBAR IN TOP OF CURB AT 10 FT FROM BENT 4	2	1	1	Feet

General Comments

Span 4 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	33	18	0	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	15	15	Feet

General Comments

Span 4 — Near Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet

General Comments

Span 4 — Far Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.	3	1	1	Square Feet

General Comments

Span 4 — Near Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet

General Comments

Span 4 — Far Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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

BEARING HAS BEEN PAINTED SINCE 2015 INSPECTION

Span 4 — Near Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet

General Comments

Span 4 — Far Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.	3	1	1	Square Feet

General Comments

Span 4 — Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet

General Comments

Span 4 — Far Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	3	1	1	Square Feet

General Comments

Span 4 — Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet

General Comments

Span 4 — Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FAILED COATING	4	1	1	Square Feet

General Comments

Span 4 — Expansion Joint at Bent 3

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	40	40	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Not visible

Span 5 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,106	1,091	10	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	3 SPALLS WITH EXPOSED REBAR IN WEST EDGE OF DECK NEAR BENT 4 UP TO 3" DIAMETER X 1/2" DEEP	3	3	3	Square Feet
12	Delamination/Spall	TWO SPALL WITH EXPOSED REBAR IN EAST EDGE OF DECK 4" DIAMETER X 1" DEEP AT 10 FT FROM END BENT 2	3	2	2	Square Feet
12	Delamination/Spall	A FEW SMALL AREAS UP TO DELAMINATION 3" X 9" IN UNDERSIDE WEST/EAST OVERHANGS AT VARIOUS LOCATIONS	2	3	3	Square Feet
12	Cracking (RC and Other)	7' long hairline diagonal crack with minor efflo. in underside of deck bay 4 at abutment 2	2	7	7	Square Feet

General Comments

Span 5 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	11	20	2	0	Feet
515	Steel Protective Coating	257	183	40	34	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1/4" section loss with 3/8" average remaining full width of bottom flange. Beam end has been painted with active surface corrosion present. No PAR issued due to repair plate added at pier 4.	3	2	2	Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail	3	4	4	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	40	40	Square Feet

General Comments

BOLTED PLATE REPAIR TO BOTTOM FLANGE WEST AND BOTH FACES OF WEB AT BENT 4 BEAM END AT BENT 4 HAS BEEN PAINTED.

Span 5 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	19	13	0	1	Feet
515	Steel Protective Coating	257	201	24	32	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	PAR--1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.	4	1	1	Feet

107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	12		Feet
107	Corrosion	Minor section loss less than 1/16" on bottom flange 1' long at pier 4. Beam end has been painted over with no active corrosion	2	1		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed	3	2	2	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	24	24	Square Feet

General Comments

BEAM END AT BENT 4 HAS BEEN PAINTED SINCE 2015 INSPECTION

Span 5 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	22	11	0	0	Feet
515	Steel Protective Coating	257	207	20	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 HAS BEEN PAINTED	2	1		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	10		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	20	20	Square Feet

General Comments

Span 5 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	16	17	0	0	Feet
515	Steel Protective Coating	257	195	30	32	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	15		Feet
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 HAS BEEN PAINTED	2	1		Feet
107	Corrosion	Minor section loss less than 1/16" on bottom flange 1' long at pier 4. Beam end has been painted over with no active corrosion	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed.	3	2	2	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	30	30	Square Feet

General Comments

BEAM END AT BENT 4 HAS BEEN PAINTED SINCE 2015 INSPECTION

Span 5 — Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	7	22	0	4	Feet
515	Steel Protective Coating	257	179	40	30	8	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.	4	4	4	Feet
107	Corrosion	SURFACE CORROSION ON BOTTOM FLANGE EAST FACE 10" LONG AT END BENT 2 NO SECTION LOSS	2	1		Feet
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 HAS BEEN PAINTED	2	1		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS FAILED	4	8	8	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	40	40	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	990	800	0	190	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking up to 1/4" wide in travel lanes	3	150	150	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP CRACKS UP TO 1/4" WIDE OVER END BENT 2	3	40	40	Square Feet

General Comments

Span 5 — Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	33	19	2	12	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	12	12	Feet
331	Delamination/Spall	TWO SPALLS WITH EXPOSED REBAR 3" X 1" X 1/2" DEEP IN TOP OF CURB AT 12 FT AND 6 FT FROM END BENT 2	2	2	2	Feet

General Comments

Span 5 — Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	33	16	2	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map cracking in curb portion of rail	3	15	15	Feet
331	Delamination/Spall	TWO SPALLS WITH EXPOSED REBAR 3" X 1" X 1/2" DEEP IN TOP/FRONT FACE OF CURB 4 FT FROM END BENT 2	2	2	2	Feet

General Comments

Span 5 — Near Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.	3	1	1	Square Feet

General Comments

Span 5 — Far Bearing 1

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Light surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS	3	1	1	Square Feet

General Comments

Span 5 — Near Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present.	2	1		Each

515	Effectiveness (Steel Protective Coatings)	Coating starting to fail	2	1	1	Square Feet	

General Comments

Span 5 — Near Bearing 3

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail	3	1	1	Square Feet

General Comments

Span 5 — Near Bearing 4

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.	2	1	1	Square Feet

General Comments

Span 5 — Near Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.	4	1	1	Square Feet

General Comments

Span 5 — Far Bearing 5

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	Light surface rust	3	1		Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS	3	1	1	Square Feet

General Comments

Span 5 — Expansion Joint at Bent 4

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	40	40	0	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Not visible

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	40	29	3	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	24" X 8" DELAMINATION WITH CRACKS UP TO 1/4" WIDE IN SOUTH FACE UNDER WEST OVERHANG IN FLUTED PORTION	3	2	2	Feet
234	Cracking (RC and Other)	6' LONG X 1/8" WIDE HORIZONTAL CRACK NORTH FACE UNDER BAY 1	3	6	6	Feet
234	Cracking (RC and Other)	HORIZONTAL CRACK 3 FT LONG UP TO 1/8" WIDE IN SOUTH FACE MID WAY BETWEEN COLUMNS 1 AND 2	2	3		Feet

General Comments

HORIZONTAL HAIRLINE CRACK IN SOUTH FACE UNDER BAY 4
2 FT. LONG HORIZONTAL HAIRLINE CRACK IN BOTTOM FACE BETWEEN COLUMNS 1 AND 2

Bent 1 — Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	3 FT X 9" X 1" DEEP SPALL AND DELAMINATION AT NORTHEAST CORNER	3		3	Each
205	Delamination/Spall	6 FT X 9" FT X 2" DEEP SPALL WITH EXPOSED RUSTED REBAR NO SECTION LOSS AT NORTHWEST CORNER	3	1	5	Each

General Comments

Bent 1 — Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	VERTICAL CRACKS UP TO 7 FT LONG AND 1/16" WIDE IN NORTH FACE	3		7	Each
205	Delamination/Spall	4 FT X 1 FT X 1/2" DEEP SPALL AND DELAMINATION WITH CRACKS UP TO 1/8" WIDE IN NORTH FACE	3	1	4	Each
205	Delamination/Spall	SEVERAL AREAS OF DELAMINATIONS WITH CRACKING UP TO 1/16" WIDE ON NORTH FACE	2		6	Each

General Comments

End Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	60	56	2	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Delamination/Spall	SPALL WITH EXPOSED REBAR 12" X 2" X 1/2" DEEP WITH CRACK WITH EFFLORESCENCE 12" LONG X UP TO 1/32" WIDE IN CURTAIN WALL AT WEST END	3	2	2	Feet
215	Cracking (RC and Other)	1' long horizontal hairline crack at east end	2	1		Feet
215	Cracking (RC and Other)	1' long vertical hairline to 1/32" crack abay 3	2	1		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	48	38	2	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	6 FT HORIZONTAL CRACK UP TO 1/16" WIDE UNDER BEAM 1	3	6	6	Feet
234	Delamination/Spall	8" X 2 FT X 1/2" DEEP SPALL WITH EXPOSED REBAR UNDER BAY 4	3	1	1	Feet
234	Delamination/Spall	8" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR UNDER BAY 4	3	1	1	Feet
234	Cracking (RC and Other)	2 FT HORIZONTAL CRACK UP TO 1/32" WIDE UNDER BAY 4	2	2		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	40	19	13	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	6FT LONG HORIZONTAL CRACK UP TO 1/4" WIDE UNDER BAYS 1 AND 2 NORTH FACE	3	6	6	Feet
234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/16" WIDE BEAM 1 PEDESTAL SPAN 2 SIDE	3	1	1	Feet
234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/16" WIDE IN EAST FACE OF PEDESTAL UNDER BEAM 2	3	1	1	Feet
234	Cracking (RC and Other)	2' LONG 1/32" HORIZONTAL CRACK NORTH FACE UNDER BEAM 4	2	2		Feet
234	Delamination/Spall	3 FT X 1 FT X 6" DELAMINATION IN UNDERSIDE UNDER BEAM 5 IN FLUTED PORTION	2	3	3	Feet
234	Delamination/Spall	3 FT X 1.5 FT HIGH DELAMINATION WITH CRACK UP TO 1/4" WIDE IN SOUTH FACE UNDER BEAM 3	2	3	3	Feet
234	Delamination/Spall	8" DIAMETER DELAMINATION AND 6" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR NO LOSS IN NORTH FACE UNDER BEAM 1	2	1	1	Feet
234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/32" WIDE IN BEAM 2 PEDESTAL EAST FACE	2	1		Feet
234	Cracking (RC and Other)	HORIZONTAL CRACK UP TO 1/32" WIDE ON SOUTH FACE UNDER BEAM 4	2	3		Feet

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	60	59	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Delamination/Spall	3" diameter x up to 3/4" deep spall in bay 1 at beam 1 with a 6" long hairline horizontal crack.	2	1	1	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	48	44	0	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	HORIZONTAL CRACK 4 FT LONG UP TO 1/8" WIDE IN FACE OF CAP UNDER BEAM 5	3	4	4	Feet

General Comments

Bent 3 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	40	38	1	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	SPALL WITH EXPOSED REBAR 1 FT X 9" X 1" DEEP IN NORTH FACE UNDER BEAM 4	3	1	1	Feet
234	Delamination/Spall	9" DIAMETER DELAMINATION NORTH FACE UNDER BEAM 5	2	1	1	Feet

General Comments

Bent 3 Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	VERTICAL THRU CRACK 7 FT LONG X 1/4" WIDE IN MIDDLE OF CRASHWALL BOTH FACES	3		7	Each
205	Cracking (RC and Other)	VERTICAL THRU CRACK 7 FT LONG X 1/8" WIDE IN MIDDLE OF CRASHWALL BOTH FACES	3		1	Each
205	Cracking (RC and Other)	AREA OF HAIRLINE MAP CRACKING 10' LONG ON SOUTH FACE OF CRASH WALL	2			Each
205	Delamination/Spall	9" X 6" X 1/2" DEEP SPALL WITH EXPOSED REBAR NO LOSS IN SOUTH FACE BELOW CAP	2	1	1	Each

General Comments

Bent 3 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS	3	1	3	Each
205	Delamination/Spall	4 FT X 2 FT AREA OF DELAMINATION WITH CRACKING UP TO 1/2" WIDE AT SOUTHEAST CORNER	2		4	Each

General Comments

Bent 4 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	40	38	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2 hairline to 1/32" wide horizontal cracks on east face of cap that extend on to north face 1.5' long.	2	2		Feet

General Comments

Bent 4 Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	VERTICAL CRACK 5 FT LONG UP TO 1/8" WIDE AT NORTHEAST CORNER	2	1		Each

General Comments

Bent 4 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	6 FT X 9" AREA OF DELAMINATION WITH CRACKING UP TO 1/8" WIDE AT NORTHEAST CORNER	3	1	6	Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1273
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	38
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1140
Span 1	Near Bearing 1	Other Bearing	Other Bearings	1
Span 1	Far Bearing 1	Other Bearing	Other Bearings	1
Span 1	Near Bearing 2	Other Bearing	Other Bearings	1
Span 1	Far Bearing 2	Other Bearing	Other Bearings	1
Span 1	Near Bearing 3	Other Bearing	Other Bearings	1
Span 1	Far Bearing 3	Other Bearing	Other Bearings	1
Span 1	Near Bearing 4	Other Bearing	Other Bearings	1
Span 1	Far Bearing 4	Other Bearing	Other Bearings	1
Span 1	Near Bearing 5	Other Bearing	Other Bearings	1
Span 1	Far Bearing 5	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1257
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	38
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1125
Span 2	Near Bearing 1	Other Bearing	Other Bearings	1
Span 2	Far Bearing 1	Other Bearing	Other Bearings	1
Span 2	Near Bearing 2	Other Bearing	Other Bearings	1
Span 2	Far Bearing 2	Other Bearing	Other Bearings	1
Span 2	Near Bearing 3	Other Bearing	Other Bearings	1
Span 2	Far Bearing 3	Other Bearing	Other Bearings	1
Span 2	Near Bearing 4	Other Bearing	Other Bearings	1
Span 2	Far Bearing 4	Other Bearing	Other Bearings	1
Span 2	Near Bearing 5	Other Bearing	Other Bearings	1
Span 2	Far Bearing 5	Other Bearing	Other Bearings	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1592
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	48
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	48
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	48
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	48
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	48
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	48

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	48
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1425
Span 3	Near Bearing 1	Other Bearing	Other Bearings	1
Span 3	Far Bearing 1	Other Bearing	Other Bearings	1
Span 3	Near Bearing 2	Other Bearing	Other Bearings	1
Span 3	Far Bearing 2	Other Bearing	Other Bearings	1
Span 3	Near Bearing 3	Other Bearing	Other Bearings	1
Span 3	Far Bearing 3	Other Bearing	Other Bearings	1
Span 3	Near Bearing 4	Other Bearing	Other Bearings	1
Span 3	Far Bearing 4	Other Bearing	Other Bearings	1
Span 3	Near Bearing 5	Other Bearing	Other Bearings	1
Span 3	Far Bearing 5	Other Bearing	Other Bearings	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1089
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	33
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	975
Span 4	Near Bearing 1	Other Bearing	Other Bearings	1
Span 4	Far Bearing 1	Other Bearing	Other Bearings	1
Span 4	Near Bearing 2	Other Bearing	Other Bearings	1
Span 4	Far Bearing 2	Other Bearing	Other Bearings	1
Span 4	Near Bearing 3	Other Bearing	Other Bearings	1
Span 4	Far Bearing 3	Other Bearing	Other Bearings	1
Span 4	Near Bearing 4	Other Bearing	Other Bearings	1
Span 4	Far Bearing 4	Other Bearing	Other Bearings	1
Span 4	Near Bearing 5	Other Bearing	Other Bearings	1
Span 4	Far Bearing 5	Other Bearing	Other Bearings	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1106
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 4	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 5	Plate Girder	Steel Open Girder/Beam	33
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	990
Span 5	Near Bearing 1	Other Bearing	Other Bearings	1
Span 5	Far Bearing 1	Other Bearing	Other Bearings	1
Span 5	Near Bearing 2	Other Bearing	Other Bearings	1
Span 5	Far Bearing 2	Other Bearing	Other Bearings	1
Span 5	Near Bearing 3	Other Bearing	Other Bearings	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 5	Far Bearing 3	Other Bearing	Other Bearings	1
Span 5	Near Bearing 4	Other Bearing	Other Bearings	1
Span 5	Far Bearing 4	Other Bearing	Other Bearings	1
Span 5	Near Bearing 5	Other Bearing	Other Bearings	1
Span 5	Far Bearing 5	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	48
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	48
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Span 2	Expansion Joint at Bent 1
Not visible	
Span 3	Expansion Joint at Bent 2
Not visible	
Span 4	Expansion Joint at Bent 3
Not visible	
Span 4	Far Bearing 2
BEARING HAS BEEN PAINTED SINCE 2015 INSPECTION	
Span 5	Expansion Joint at Bent 4
Not visible	

National Bridge and NC Inspection Items

Structure Number: 500037 **Inspection Date:** 11/04/2019

National Bridge Inventory Items

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

Note: 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			
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	**G**	**0**	**3350**
Field Scour Evaluation				
Drift	G, F, P, or C		**0**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Superstructure Paint Code		**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	**8**
Traffic Control Time	Hours	**0**
Snooper Time	Hours	**0**
Ladder Used	YES/NO	**Y**
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: 500037 **Inspection Date:** 11/04/2019

Item General Comments and Misc Items **Grade** **Maint Code** **Qty.** 0

Details Guardrail impact damage to southeast terminal end

Guardrail impact damage to southwest rail midway 10' long

Guardrail impact damage to southwest rail 40' from bridge 10' long

36" X 8" X 3" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM AND A 9" WIDE X 1' HIGH X 2" DEEP SPALL AT BEAM 2 IN BAY 1 SPAN 5

12" X 4" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM AT EAST END

18" X 12" X 3" DEEP SPALL WITH EXPOSED REBAR AND A 1' LONG X 9" WIDE X 2" DEEP SPALL NO EXPOSED REBAR AT BEAM 2 IN BENT 3 DIAPHRAGM OVER PIER 3 IN BAY 1

12" X 4" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 3 END DIAPHRAGM WEST END

24" X 6" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM IN BAY 4

18" X 6" X 1 1/2" DEEP SPALL WITH EXPOSED REBAR IN BENT 1 END DIAPHRAGM IN BAY 1

18" X 10" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 1 END DIAPHRAGM IN BAY 2

9" X 4" X 1" DEEP SPALL WITH EXPOSED REBAR IN BENT 1 END DIAPHRAGM IN BAY 3

4 FT X 9" X 2" DEEP SPALL WITH EXPOSED REBAR IN END DIAPHRAGM AT BENT 1

9" X 6" X 1" DEEP SPALL WITH EXPOSED REBAR IN BENT 2 END DIAPHRAGM IN BAY 3

Guardrail impact damage to southeast terminal end

Guardrail impact damage to southwest rail midway 10' long

Guardrail impact damage to southwest rail 40' from bridge 10' long

Span 1 Wearing Surface: Full length longitudinal/map cracking up to 1/4" wide in travel lanes

Span 1 Wearing Surface: FULL WIDTH TRANSVERSE/MAP CRACKING UP TO 1/2" WIDE OVER END BENT 1 AND BENT 1, BENT 1 SHOWN

Span 3 Wearing Surface: FULL WIDTH TRANSVERSE/MAP CRACK UP TO 2" WIDE WITH ASPHALT DETERIORATION WITH UP TO 3/4" DEEP POT HOLES UP TO 1' LONG X 2" WIDE OVER BENT 3

Span 3 Wearing Surface: 3' Long x 6" wide x 2 1/2" deep pothole at right shoulder at pier 3

Span 4 Wearing Surface: 3' Long x 6" wide x 2 1/2" deep pothole at left shoulder at pier 3

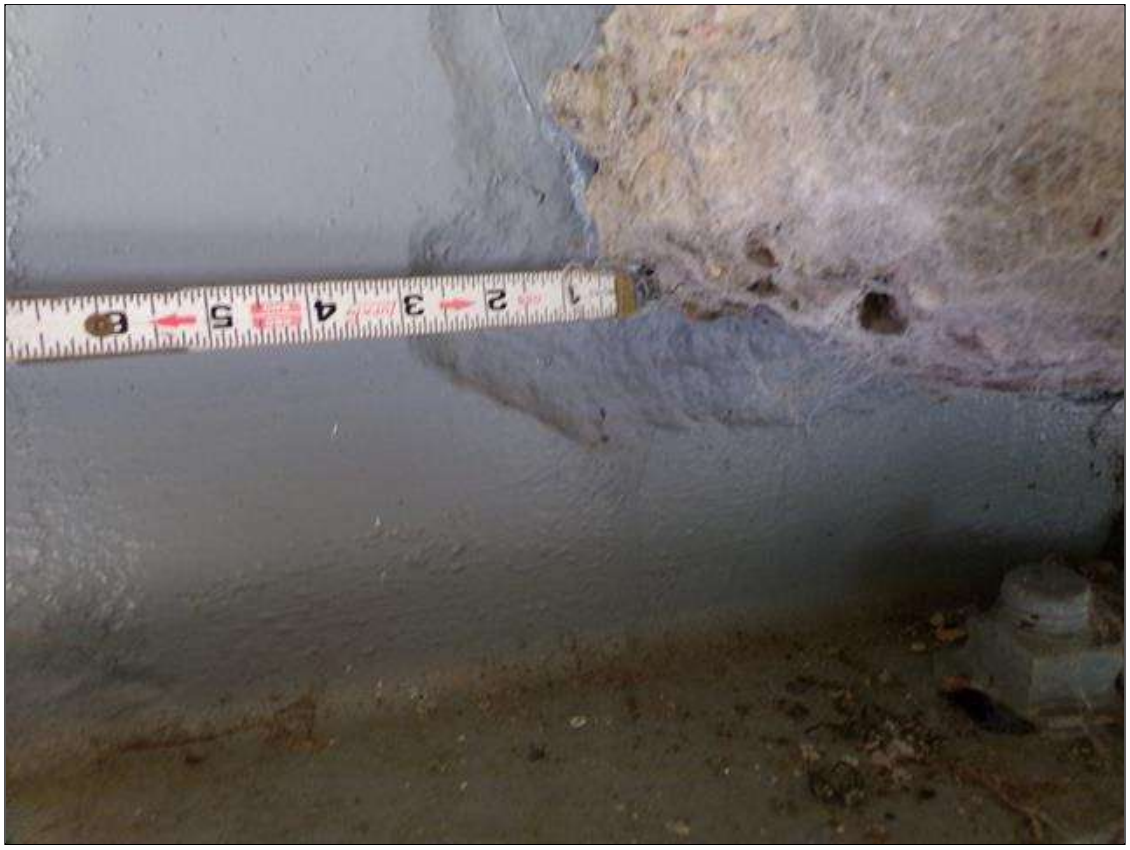
Typical small surface spall with exposed rebar in top of curb, span 5 left rail shown

Typical hairline to 1/16" wide transverse/map cracking in curb portion of rail, right rail span 5 shown

Span 1 Left Bridge Rail: 4" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR AT END POST AT SOUTHWEST CORNER

BEAM 1 BOLTED PLATE REPAIR TO BOTTOM FLANGE WEST SIDE AND BOTH FACES OF WEB AT BENT 4 SPAN 5

Span 5 Beam 1: 1/4" section loss with 3/8" average remaining full width of bottom flange. Beam end has been painted with active surface corrosion present. No PAR issued due to repair plate added at pier 4.



Span 5 Beam 2: PAR--1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.

36" X 8" X 3" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM IN BAY 1 SPAN 5 AND A 9" WIDE X 1' HIGH X 2" DEEP SPALL AT BEAM 2 IN BAY 1 SPAN 5

Span 5 Beam 5: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.

12" X 4" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM AT EAST END

End Bent 2 Cap 1: HORIZONTAL CRACK 4 FT LONG UP TO 1/8" WIDE IN FACE OF CAP UNDER BEAM 5

Bent 4 Pile 2: 6 FT X 9" AREA OF DELAMINATION WITH CRACKING UP TO 1/8" WIDE AT NORTHEAST CORNER

Bent 4 Pile 1: VERTICAL CRACK 5 FT LONG UP TO 1/8" WIDE AT NORTHEAST CORNER

Span 4 Beam 1: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.

BOLTED PLATE REPAIR FULL HEIGHT X 1' LONG TO WEB AT BENT 3 BEAM 1 SPAN 4

Span 3 Beam 1: PAR--CORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3

18" X 12" X 3" DEEP SPALL WITH EXPOSED REBAR AND A 1' LONG X 9" WIDE X 2" DEEP SPALL NO EXPOSED REBAR AT BEAM 2 IN BENT 3 DIAPHRAGM OVER PIER 3 IN BAY 1, BAY 2 SIMILAR

BOLTED PLATE REPAIR TO WEB ON BEAM 3 SPAN 4 24" X 24" AT BENT 3 END BOTH FACES

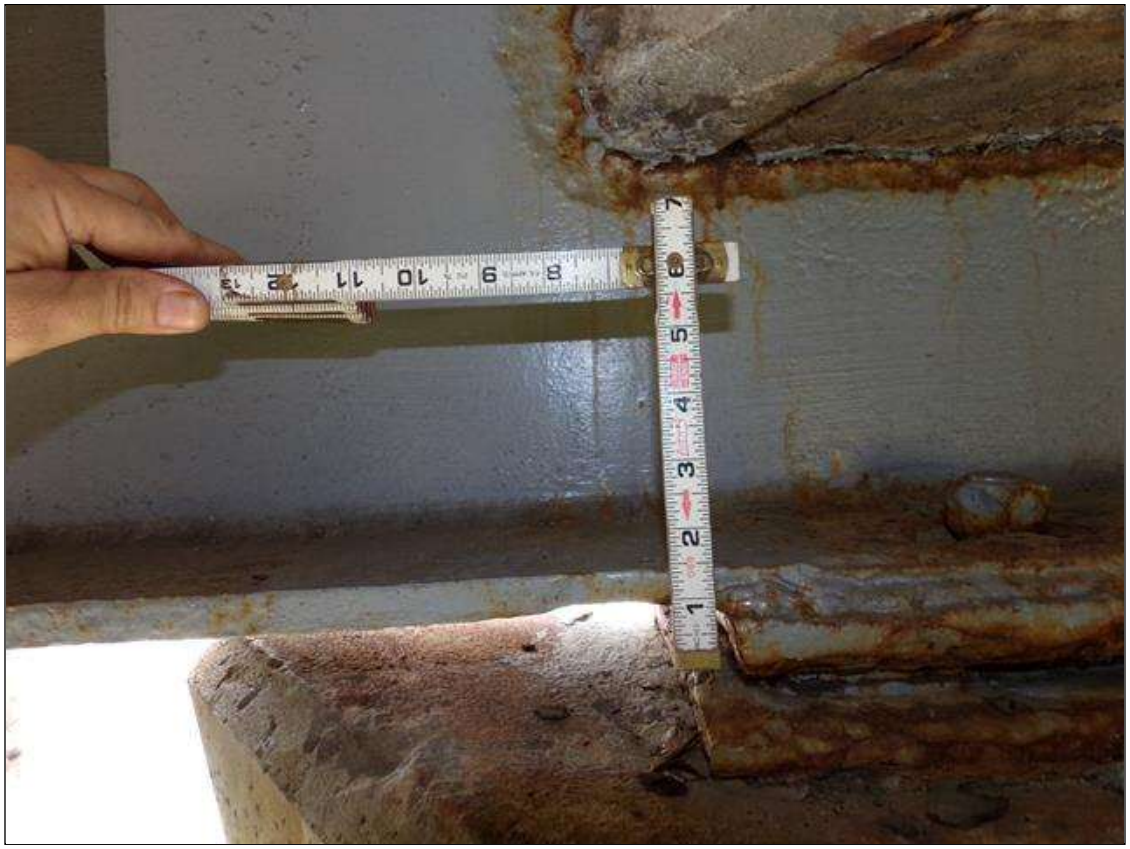
BEARING REPAIR AT BEAM 4 PIER 3 SPAN 4 EAST SIDE.

BOLTED PLATE REPAIR 24" X 24" TO WEB BOTH SIDES AND 24" BOTTOM FLANGE WEST SIDE BEAM 5 SPAN 4 AT BENT 3

BEARING REPAIR AT BEAM 5 PIER 3 SPAN 4 WEST SIDE.

Span 4 Beam 5: PAR--SECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT EXTEND OUT TO DEFECT.

Span 3 Beam 1: PAR--SECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2



Span 2 Beam 1: 1 FT. OF PREVIOUS CORROSION WITH 1/2" REMAINING SECTION IN BOTTOM FLANGE AND 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER AND ARRESTED.

Span 3 Beam 5: 4 FT. OF ACTIVE CORROSION WITH 1/2" REMAINING SECTION IN WEB AROUND DIAPHRAM AND BOTTOM 6" OF WEB AND 3/4" THICKNESS REMAINING FULL WIDTH BOTTOM FLANGE AT BENT 2 BEAM ENDS HAVE BEEN PAINTED WITH ACTIVE SURFACE CORROSION

Span 2 Beam 5: 1 FT. OF PREVIOUS CORROSION WITH 1/2" X FULL WIDTH REMAINING SECTION IN BOTTOM FLANGE AND 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED WITH ACTIVE SURFACE CORROSION

End Bent 1 Cap 1: 8" X 2 FT X 1/2" DEEP SPALL WITH EXPOSED REBAR UNDER BAY 4

End Bent 1 Cap 1: 8" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR UNDER BAY 4

End Bent 1 Abutment/Backwall : SPALL WITH EXPOSED REBAR 12" X 2" X 1/2" DEEP WITH CRACK WITH EFFLORESCENCE 12" LONG X UP TO 1/32" WIDE IN CURTAIN WALL AT WEST END

Bent 1 Cap 1: 24" X 8" DELAMINATION WITH CRACKS UP TO 1/4" WIDE IN SOUTH FACE UNDER WEST OVERHANG IN FLUTED PORTION

Bent 1 Cap 1: HORIZONTAL CRACK 3 FT LONG UP TO 1/8" WIDE IN SOUTH FACE MID WAY BETWEEN COLUMNS 1 AND 2

Bent 1 Pile 1: 6 FT X 9" FT X 2" DEEP SPALL WITH EXPOSED RUSTED REBAR NO SECTION LOSS AT NORTHWEST CORNER

Bent 1 Pile 1: 3 FT X 9" X 1" DEEP SPALL AND DELAMINATION AT NORTHEAST CORNER

Bent 1 Pile 2: 4 FT X 1 FT X 1/2" DEEP SPALL AND DELAMINATION WITH CRACKS UP TO 1/8" WIDE IN NORTH FACE

Bent 2 Cap 1: 3 FT X 1.5 FT HIGH DELAMINATION WITH CRACK UP TO 1/4" WIDE IN SOUTH FACE UNDER BEAM 3

Bent 1 Cap 1: 6' LONG X 1/8" WIDE HORIZONTAL CRACK NORTH FACE UNDER BAY 1

Bent 2 Cap 1: 8" DIAMETER DELAMINATION AND 6" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR NO LOSS IN NORTH FACE UNDER BEAM 1

Bent 2 Cap 1: 6FT LONG HORIZONTAL CRACK UP TO 1/4" WIDE UNDER BAYS 1 AND 2 NORTH FACE

Bent 2 Cap 1: 3 FT X 1 FT X 6" DELAMINATION IN UNDERSIDE UNDER BEAM 5 IN FLUTED PORTION

Bent 2 Pile 1: VERTICAL THRU CRACK 7 FT LONG UP TO 1/2" WIDE IN MIDDLE OF CRASH WALL BOTH FACES

Bent 3 Cap 1: SPALL WITH EXPOSED REBAR 1 FT X 9" X 1" DEEP IN NORTH FACE UNDER BEAM 4

Bent 3 Pile 2: PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS

Bent 3 Pile 1: VERTICAL THRU CRACK 7 FT LONG X 1/4" WIDE IN MIDDLE OF CRASHWALL BOTH FACES

Bent 3 Pile 2: 4 FT X 2 FT AREA OF DELAMINATION WITH CRACKING UP TO 1/2" WIDE AT SOUTHEAST CORNER

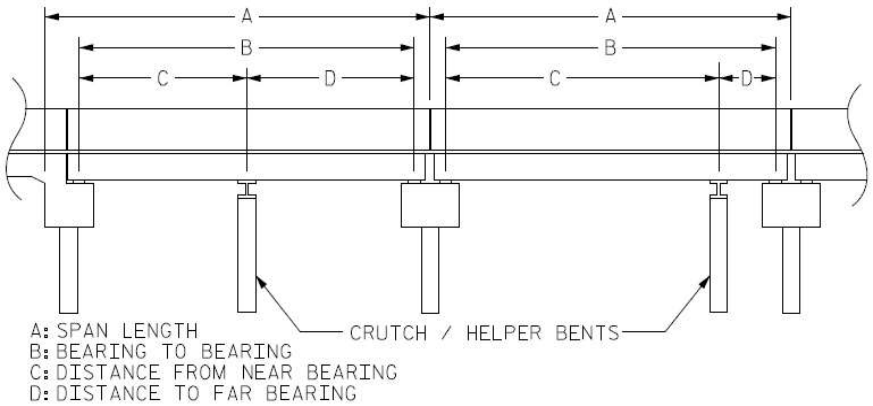
Bent 3 Pile 1: VERTICAL THRU CRACK 7 FT LONG X 1/8" WIDE IN MIDDLE OF CRASHWALL BOTH FACES

Bent 3 Pile 1: 9" X 6" X 1/2" DEEP SPALL WITH EXPOSED REBAR NO LOSS IN SOUTH FACE BELOW CAP

Structure Data Worksheet

Span Profile

County: **JOHNSTON** Structure Number: **500037**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	38.000	36.000			
2	37.500	36.500			
3	47.500	46.500			
4	32.500	31.500			
5	33.000	31.000			

Guardrail terminal end northwest corner, northeast and southeast similar

Looking south

Guardrail post spacing midway northwest shown, all others similar

Guardrail post spacing at bridge northwest shown, northeast and southeast similar

Guardrail attachment to bridge northwest shown

Guardrail transition at bridge southwest corner shown

Guardrail terminal end southwest corne

Looking north

Guardrail attachment to bridge southeast shown, northeast similar

Looking west

Looking east

Abutment 1, abutment 2 similar

Superstructure underside span 2 shown, all others similar

West elevation

Looking east through span 3

Looking west through span 3

East elevation

Pier 4, pier 1 similar

Typical bearing beam 2 at pier 4 span 5 shown

Pier 2, pier 3 similar

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 500037 County JOHNSTON 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	4	Span 3 Beam 1: PAR--SECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2	
3314	Maintain Steel Superstructure Components	LF	5	Span 3 Beam 1: PAR--CORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3	
3314	Maintain Steel Superstructure Components	LF	3	Span 4 Beam 1: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.	
3314	Maintain Steel Superstructure Components	LF	1	Span 4 Beam 5: PAR--SECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT EXTEND OUT TO DEFECT.	
3314	Maintain Steel Superstructure Components	LF	1	Span 5 Beam 2: PAR--1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.	
3314	Maintain Steel Superstructure Components	LF	4	Span 5 Beam 5: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.	
3348	Maintain Concrete Substructure Components	LF	3	Bent 3 Pile 2: PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500037 County JOHNSTON

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

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

Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/04/2019	Rick Wertman	

Details

Span 3 Beam 1: PAR--SECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	5 LF

Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/04/2019	Rick Wertman	

Details

Span 3 Beam 1: PAR--CORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500037 County JOHNSTON

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
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
11/04/2019	Rick Wertman	

Details

Span 4 Beam 1: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.

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

Location:	
Bent/Span No.	
Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
11/04/2019	Rick Wertman	

Details

Span 4 Beam 5: PAR--SECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT EXTEND OUT TO DEFECT.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500037 County JOHNSTON

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	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/04/2019	Rick Wertman	

Details

Span 5 Beam 2: PAR--1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.

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

Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/04/2019	Rick Wertman	

Details

Span 5 Beam 5: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500037 County JOHNSTON

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	3 LF

Location:	
Bent/Span No.	

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
11/04/2019	Rick Wertman	

Details
Bent 3 Pile 2: PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS

Bridge Inspection Field Sketch

SOUTH APPROACH (LOOKING NORTH)

MEASURMENTS TAKEN AT 15 FT SOUTH OF END BENT 1

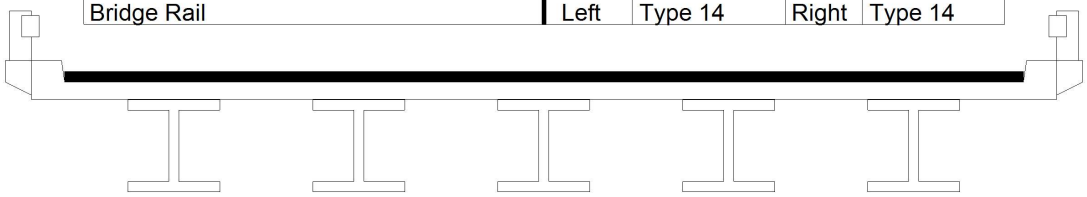
Roadway	23ft Wide	2 Paved Lanes	Looking North
Left Shoulder	5ft Wide	4ft Paved	1ft Unpaved
Right Shoulder	5ft Wide	4ft Paved	1ft Unpaved
Left Guardrail	5ft from road		
Right Guardrail	5ft from road		

MEAS. VERIFIED 11/4/2019...RFW

Title	**Description**		
APPROACH ROADWAY	LOOKING NORTH		
Bridge No: 500037	**Drawn By:** GGW	**Date:** 04/12/2006	**File Name:** S0214000199

Bridge Inspection Field Sketch

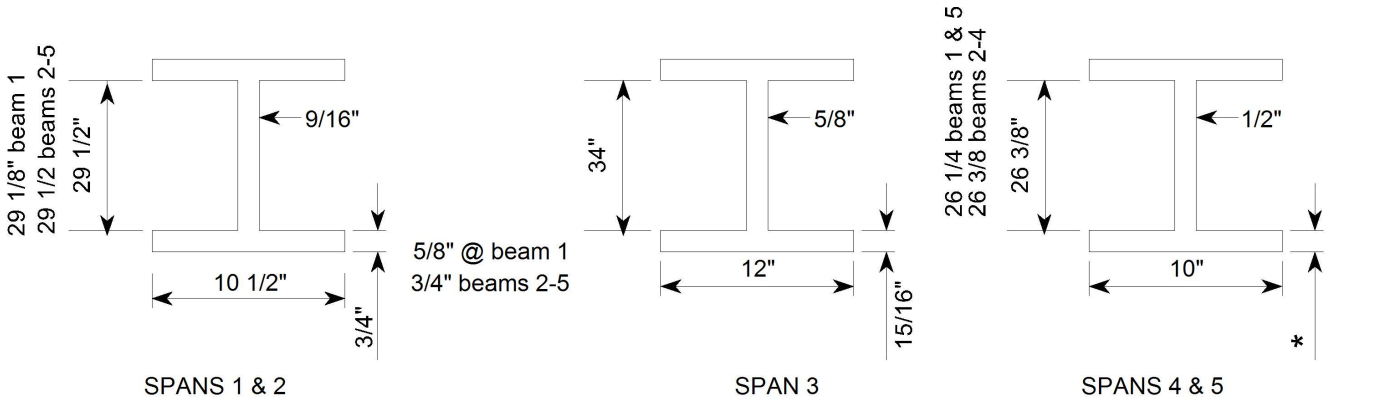
Deck Width/Out to Out	35.417ft	Between Rails				33.333ft
Clear Roadway	30.083ft	Wearing Surface				0.333ft
Median Width		Median Height				
Curb Height		Left	0.625ft	Right	0.625ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	1.042ft	Right	1.042ft	
Top of Rail to Deck/Wearing Surface		Left	2.25ft	Right	2.25ft	
Bridge Rail		Left	Type 14	Right	Type 14	



Measurements for Span #	1		
Deck Thickness	0.542	Left Overhang	4.041
Top of Rail to Bottom of Beam (A&B)	5.25	Right Overhang	4.041

5.75' (SPAN C) 5.00' (SPANS D&E)

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	6.833ft	
2	Steel I Beam	6.833ft	
3	Steel I Beam	6.833ft	
4	Steel I Beam	6.833ft	
5	Steel I Beam	ft	



SPANS 1 & 2 SPAN 3 SPANS 4 & 5

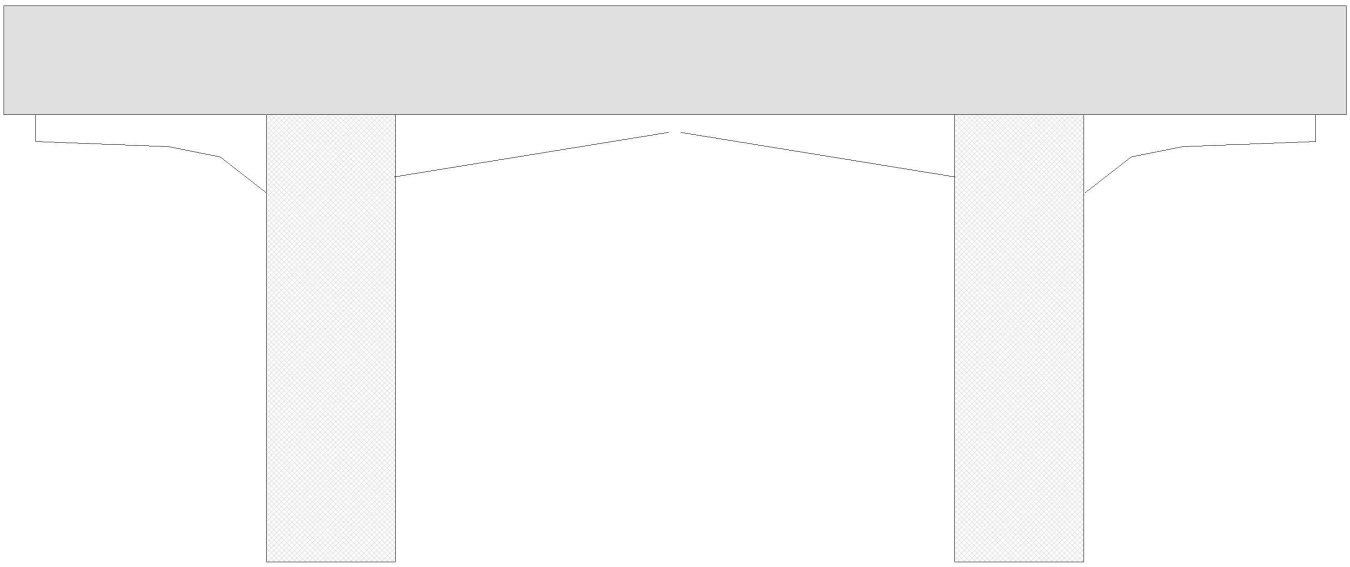
* 5/8" AT BEAMS 1 & 5
3/4" AT BEAMS 2-4

MEAS. VERIFIED 11/4/2019...RFW

Title	Description
TYPICAL SECTION	LOOKING NORTH

Bridge No:	Drawn By:	Date:	File Name:
500037	GGW	04/12/2006	S0214000200

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.
39.000 ft.	2.500 ft.	3.167 ft.	9.500 ft.	9.500 ft.	2.000 ft.	2.000 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	Concrete	20 ft.	3.75 ft.	2 ft.		Vertical	No	No	No	No
2	Concrete		3.75 ft.	2 ft.		Vertical	No	No	No	No

Bent/Abutment #: 1 Similar Bents: 2-4

CRASH WALLS AT BENTS 2 AND 3

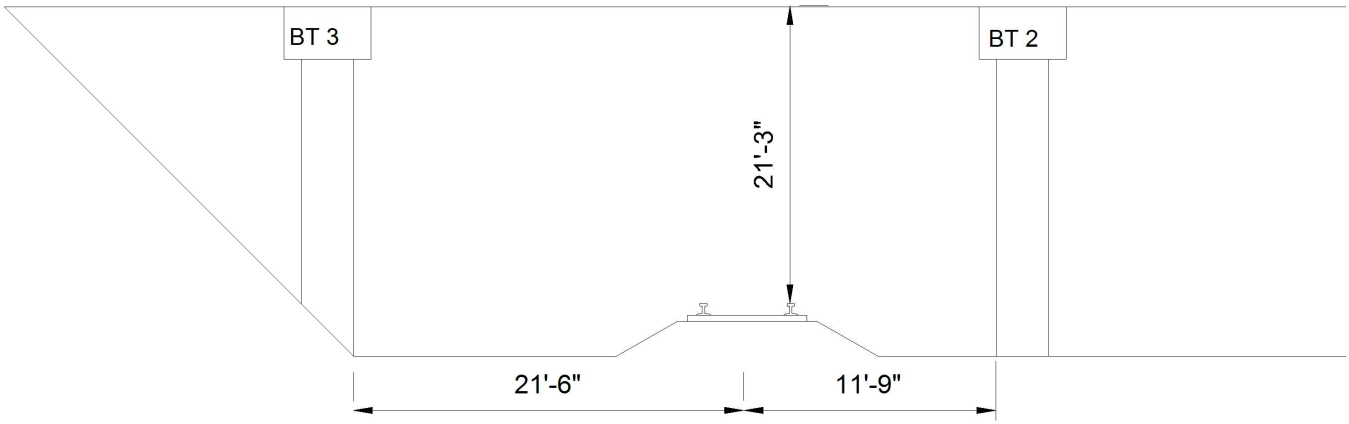
MEAS. VERIFIED 11/4/2019...RFW

Title	**Description**
BENT 1	BENT 1

Bridge No: 500037	**Drawn By:** DAVID WAGNER	**Date:** 3/13/2017	**File Name:** S0422000450

Bridge Inspection Field Sketch

SPAN 3



Measurements Under Span 3 (of 5)			
Center of Left-most Tracks to Center of Right-most Tracks		1 set of tracks	Looking: EAST
Vertical Clearance	21.25ft	Measured from rail 2	at Beam # 1
Distance to Left Bent	21.5ft		
Distance to Left Toe of Slope	20ft		
Distance to Right Bent	11.75ft		
Distance to Right Toe of Slope			

MEAS. VERIFIED 11/4/2019...RFW

Title	**Description**		
RAILROAD CLEARANCE PROFILE	LOOKING EAST		
Bridge No: 500037	**Drawn By:** WTW	**Date:** 11/6/2013	**File Name:** S0214000201