NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY ACTION REQUEST ISSUED; NEW ASPHALT WEARING SURFACE

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 500037 **SAP STRUCTURE NO:** 0510037 **FHWA STRUCTURE NO:** 000000001010037

DIVISION: 4 **COUNTY:** JOHNSTON **INSPECTION DATE:** 11/03/2023 **FREQUENCY:** 24 MONTHS

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

LOCATION: 0.2 MI N JCT US701 &US301

FEATURE INTERSECTED: CSX RR

LATITUDE: 35° 27' 41.1" **LONGITUDE:** 78° 23' 21.84"

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

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

POSTED SV: 18 **POSTED TTST:** 21

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
Jim Stocks		Rick Wertman

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
(16) LATITUDE **35° 27' 41.1"** (17) LONGITUDE **78° 23' 21.84"**
(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**
(42) TYPE OF SERVICE ON - **Highway**
OFF - **Railroad** CODE **12**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **0**
(29) AVERAGE DAILY TRAFFIC **9400**
(30) YEAR OF ADT **2022** (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 **N**
(111) PIER PROTECTION CODE
(39) NAVIGATION VERTICAL CLEARANCE **0.0**
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR **0.0**
(40) NAVIGATION HORIZONTAL CLEARANCE **0.0**

SUFFICIENCY RATING **35.35**
STATUS =

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-13** **23**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-8** **14**
(70) BRIDGE POSTING **Posting Required** **0**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **P**
DESCRIPTION **Posted for Load**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **3**
(68) DECK GEOMETRY **3**
(69) UNDERCLEARANCES, VERT & HORIZ **5**
(71) WATERWAY ADEQUACY **N**
(72) APPROACH ROADWAY ALIGNMENT **8**
(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 **18,800** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **11/23** (91) FREQUENCY **24**
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL A)
B) UNDERWATER INSP B)
C) OTHER SPECIAL INSP C)
SCOUR

Structure Number **500037** County **JOHNSTON** Run Date **01/22/2024**

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	*See Note Below*					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
3	Railroad	80000000		0.0							33.3	R	21.3	11.8	21.5	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** 38.000 **Skew** 50.000

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

Span Number 2 **Span Length** 37.500 **Skew** 50.000

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

Span Number 3 **Span Length** 47.500 **Skew** 50.000

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

Superstructure Build Details

1	Asphalt Wearing Surface	Wearing Surface	1425	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	96	Feet		

Span Number 4 **Span Length** 32.500 **Skew** 50.000

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	1230
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1089	Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	975	Square Feet		
10	Other Bearing	Other Bearings	10	Each	Unknown	10
2	Concrete Railing	Reinforced Concrete Bridge Railing	66	Feet		
1	Standard Joint	Pourable Joint Seal	40	Feet		

Span Number 5 **Span Length** 33.000 **Skew** 50.000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
10	Other Bearing	Other Bearings	10	Each	Unknown	10
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1106	Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	990	Square Feet		
5	Plate Girder	Steel Open Girder/Beam	165	Feet	Legacy Red Lead Primer Systems with Various Topcoats	1285
1	Weight Limit	Regulatory Sign	1	Each		
1	Standard Joint	Pourable Joint Seal	40	Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	66	Feet		
2	Delineator	Warning Signs	2	Each		

Structure Element Scoring

Structure Number: **500037** Inspection Date **11/3/2023**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	6,317	6,297	13	7	0
107		Steel Open Girder/Beam	Beam	950	561	348	9	32
515	107	Steel Protective Coating	Beam	7,915	6,518	974	130	293
205		Reinforced Concrete Column	Piles and Columns	8	0	0	8	0
215		Reinforced Concrete Abutment	Abutments	120	116	2	2	0
234		Reinforced Concrete Pier Cap	Caps	255	203	13	39	0
301		Pourable Joint Seal	Expansion Joints	160	160	0	0	0
316		Other Bearings	Bearing Device	50	5	26	17	2
515	316	Steel Protective Coating	Bearing Device	50	5	1	17	27
331		Reinforced Concrete Bridge Railing	Bridge Rail	380	237	9	134	0
510		Wearing Surface	Wearing Surfaces	5,655	5,615	0	40	0
601		Regulatory Sign	Ground Mounted Signs	2	2	0	0	0
602		Warning Signs	Ground Mounted Signs	4	4	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **500037** Inspection Date: **11/03/2023**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	13 Square Feet
3314	Steel Open Girder/Beam	Damage	1 Feet
3314	Steel Open Girder/Beam	Corrosion	41 Feet
3348	Reinforced Concrete Column	Delamination/Spall	23 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	44 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	3 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	31 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	15 Feet
3334	Other Bearings	Corrosion	19 Each
3334	Other Bearings	Connection	1 Each
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	1 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	9 Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	133 Feet
2816	Wearing Surface	Crack (Wearing Surface)	240 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	720 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	738 Square Feet

Element Structure Maintenance Quantities

Structure Number: **500037** Inspection Date **11/03/2023**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	41	950	32.000	9.000	348.000	561.000
Beam	3342	Clean and Paint Steel	1397	7915	293.000	130.000	974.000	6518.000
Bearing Device	3334	Bridge Bearing	20	50	2.000	17.000	26.000	5.000
Bearing Device	3342	Clean and Paint Steel	45	50	27.000	17.000	1.000	5.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	143	380	0.000	134.000	9.000	237.000
Deck	3326	Maintenance of Concrete Deck	13	6317	0.000	7.000	13.000	6297.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	160	0.000	0.000	0.000	160.000
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	0	2	0.000	0.000	0.000	2.000
Ground Mounted Signs	3250	Install or Replace Ground Mounted Signs	0	4	0.000	0.000	0.000	4.000
Wearing Surfaces	2816	Asphalt Surface Repair	40	5655	0.000	40.000	0.000	5615.000
Abutments	3350	Maintenance of Concrete Wings and Wall	3	120	0.000	2.000	2.000	116.000
Caps	3348	Maintenance of Concrete Substructure	46	255	0.000	39.000	13.000	203.000
Piles and Columns	3348	Maintenance of Concrete Substructure	73	8	0.000	8.000	0.000	0.000

Priority Actions Request

Structure Number **500037**

Span1

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 1 Beam 1: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 1/4 INCHES AVERAGE REMAINING] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. AT THE LOWER CORNER OF THE INTERFACE THERE IS A HOLE [APPROXIMATELY 1/2 INCHES DIAMETER]. AT THE SAME END IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 7/16 INCHES REMAINS] FOR APPROXIMATELY 6 FEET LONG. AT THE SAME END IN THE LOWER 3 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 6 FEET LONG.

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 5: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

Span2

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 1: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 2: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 3 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

Span3

3326 **Deck** Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	2	Span 3 Deck: PAR--3 FOOT LONG X 15 INCHES WIDE X 2 INCHES DEEP SPALL

Priority Actions Request

Structure Number **500037**

WITH EXPOSED REBAR IN UNDERSIDE OF LEFT OVERHANG NEAR MID SPAN. MULTIPLE EXPOSED BARS TRANSVERSE AND LONGITUDINAL HAVE SECTION LOSS WITH 50 PERCENT AREA REMAINING

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 3 Beam 1: PAR-- BEAM END AT BENT 3 IN THE LEFT LOWER FLANGE, CORROSION WITH SECTION LOSS DOWN TI KNIFE EDGE [AVERAGE 3/8 INCHES REMAINS FULL WIDTH OF FLANGE] FOR APPROXIMATELY 4 FEET LONG WITH EDGE HOLES UP TO 3/4 INCHES DIAMETER. AT THE SAME END IN THE LOWER 6 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 1/16 INCHES REMAINS] FOR APPROXIMATELY 4 FEET LONG WITH PERFORATIONS THROUGHOUT.
2	Corrosion	1	Span 3 Beam 1: PAR--CORROSION AROUND DIAPHRAGM OVER PIER 2- 2 INCHES WIDE WITH 3/8 INCHES AVERAGE REMAINING THICKESS AND 6 INCHES HIGH IN BOTTOM OF WEB 4 FEET LONG. CORROSION IN BOTTOM FLANGE 4 FOOT LONG WITH 7/16 INCH SECTION LOSS WITH 1/2 INCH AVERAGE REMAINING STARTING AT PIER 2

3314 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 3 Beam 5: PAR-- BEAM END AT BENT 3 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. AT THE SAME END IN THE LOWER LEFT FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 3/4 INCHES AVERAGE REMAINS FULL WIDTH] FOR APPROXIMATELY 5 FEET LONG. AT 1.5 FEET OUT FROM THE SAME END IN THE LOWER 5 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 1/8 INCHES REMAINS] FOR APPROXIMATELY 3 FEET LONG.

Span4

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 4 Beam 1: PAR--BEAM END AT BENT 3 IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS FULL WIDTH OF FLANGE] FOR APPROXIMATELY 3 FEET LONG.

3334 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Near Bearing 2: PAR--UP TO 50 PERCENT SECTION LOSS ON LEFT ANCHOR BOLT
2	Corrosion	1	Span 4 Beam 2: PAR--SECTION LOSS IN BOTTOM FLANGE UP TO 1/4 INCHES WITH 1/2 INCHES AVERAGE REMAINING FULL WIDTH 9 INCHES LONG AT BEAM END OVER PIER 3.
2	Corrosion	1	Span 4 Beam 2: PAR--BEAM END AT BENT 4 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES

Priority Actions Request

Structure Number **500037**

REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 3: PAR--BEAM END AT BENT 4 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH SECTION LOSS [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. BEAM END HAS BEEN PAINTED WITH NO ACTIVE CORROSION

3334 **Beam 5** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	Span 4 Near Bearing 5: PAR--BEARING LATERAL RETROFIT PLATE ON LEFT SIDE OF BEARING WITH EXPOSED BENT ANCHOR BOLT DUE TO SPALL IN CAP
2	Corrosion	1	Span 4 Beam 5: PAR--SECTION LOSS UP TO 3/8 INCHES WITH 3/8 INCHES AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1 FEET 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 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 5 Beam 1: PAR--1/4 INCH SECTION LOSS WITH 3/8 INCHES AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE. BEAM END HAS BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT. BOLTED REPAIR REPAIR PLATE ADDED AND DOES NOT EXTEND UNDER DEFECT AT PIER 4.

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 2: PAR--1 FEET LONG X 2 INCHES WIDE AREA OF PREVIOUS CORROSION WITH 1/4 INCHES 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--BEAM END AT BENT 4 IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 1/4 INCHES AVERAGE REMAINS FULL WIDTH] FOR APPROXIMATELY 4 FEET LONG. AT THE SAME END IN THE LOWER 4 INCHES OF THE WEB, CORROSION WITH 100 PERCENT SECTION LOSS WITH 1 INCH X 1/2 INCH HOLE 2 FEET FROM BEAM END [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 4 FEET LONG.

Priority Actions Request

Structure Number **500037**

Bent 3

3348 **Pile 2** Reinforced Concrete Column

Priority Level	Defect Type	Quantity	Defect Description
2	Cracking (RC and Other)	4	Bent 3 Pile 2: PAR--SOUTHEAST CORNER, SPALLING WITH EXPOSED REBAR [APPROXIMATELY 4 FEET HIGH X UP TO 1.25 FEET WIDE X UP TO 3 INCHES DEEP]
2	Delamination/Spall	3	Bent 3 Pile 2: PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FOOT X 1 FOOT X 4 INCHES DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS

Element Condition and Maintenance Data

Structure Number: **500037** Inspection Date: **11/03/2023**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,273	1,273	0	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 FEET FROM END BENT 1	1	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	32	0	6	Feet
515	Steel Protective Coating	312	220	30	50	12	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**107**	Corrosion	PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 3 INCHES WIDE WITH SECTION LOSS [AVERAGE 1/4 INCHES AVERAGE REMAINING] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. AT THE LOWER CORNER OF THE INTERFACE THERE IS A HOLE [APPROXIMATELY 1/2 INCHES DIAMETER]. AT THE SAME END IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 7/16 INCHES REMAINS] FOR APPROXIMATELY 6 FEET LONG. AT THE SAME END IN THE LOWER 3 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 6 FEET LONG.	4	6	6	Feet
☑	**107**	Corrosion	CORROSION ON BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS EXTENDING 4 FEET 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	23		Feet
☑	**107**	Corrosion	SURFACE CORROSION ON BOTTOM FLANGE EXTENDING UP TO 10 FOOT FROM BENT 1	2	4		Feet
☑	**515**	Effectiveness (Steel Protective Coatings)	INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 1	4	12	12	Square Feet
☑	**515**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	50	50	Square Feet
☑	**515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB, MAINLY EAST FACE NEAR BENT 1 AND AT RANDOM	2	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	310	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH 1/16 INCH SECTION LOSS [AVERAGE 1/2 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	2	2	Square Feet

General Comments

Span 1 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	31	6	1	0	Feet
515	Steel Protective Coating	312	275	30	5	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH 1/8 SECTION LOSS [AVERAGE 7/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	3	1	1	Feet
☑ **107**	Corrosion	SURFACE CORROSION BOTTOM OF BOTTOM FLANGE FROM 5 FEET TO 10 FEET FROM BENT 1	2	5		Feet
☑ **107**	Corrosion	SURFACE CORROSION ON BOTTOM FLANGE AT BENT 1	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS ON BOTTOM FLANGE AT BENT 1	4	2	2	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	5	5	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB AT RANDOM	2	30	30	Square Feet

General Comments

Span 1 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	37	0	1	0	Feet
515	Steel Protective Coating	312	280	30	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH 1/8 SECTION LOSS [AVERAGE 7/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	3	1	1	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	2	2	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB AT RANDOM	2	30	30	Square Feet

General Comments

Span 1 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	22	15	0	1	Feet
515	Steel Protective Coating	312	250	30	0	32	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	4	1	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 HAS FAILED	4	32	32	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB AT RANDOM	2	30	30	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)	UP TO 1/16 INCHES WIDE TRANSVERSE/MAP CRACKING IN CURB PORTION OF RAIL	3	10	10	Feet
☑ **331**	Delamination/Spall	4 INCHES DIAMETER X 1 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS 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)	UP TO 1/16 INCHES WIDE TRANSVERSE/MAP CRACKING IN CURB PORTION OF RAIL	3	12	12	Feet
☑ **331**	Delamination/Spall	3 INCHES X 1 INCHES X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS 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	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	CORROSION WITH NO MEASURABLE SECTION LOSS	3	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	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	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	CORROSION WITH NO MEASURABLE SECTION LOSS	2	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)	COATING STARTING TO FAIL	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	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	CORROSION WITH NO MEASURABLE SECTION LOSS	2	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)	COATING STARTING TO FAIL	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	0	1	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	4	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)	COATING STARTING TO FAIL	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	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 STARTING TO FAIL	3	1	1	Square Feet

General Comments

Span 2 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	31	6	0	1	Feet
515	Steel Protective Coating	308	263	30	10	5	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**107**	Corrosion	PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	4	1	1	Feet
☑	**107**	Corrosion	1 FEET OF CORROSION WITH 1/2 INCHES REMAINING SECTION IN BOTTOM FLANGE AND 7/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PREVIOUSLY PAINTED OVER WITH ACTIVE CORROSION.	2	1		Feet
☑	**107**	Corrosion	5 FEET OF SURFACE CORROSION ON BOTTOM FLANGE NEAR BENT 2	2	5		Feet
☑	**515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	5	5	Square Feet
☑	**515**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	10	10	Square Feet

☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet	

General Comments

Span 2 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	21	16	0	1	Feet
515	Steel Protective Coating	308	248	30	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 3 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	4	1	1	Feet
☑ **107**	Corrosion	1 FEET OF PITTING 1/16 INCHES DEEP ON WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED	2	1		Feet
☑ **107**	Corrosion	SURFACE CORROSION ALONG BOTTOM FLANGE AT RANDOM	2	15		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS ALONG BOTTOM FLANGE AT RANDOM	4	30	30	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

Span 2 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	36	1	1	0	Feet
515	Steel Protective Coating	308	278	30	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH 1/8 SECTION LOSS [AVERAGE 7/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	3	1	1	Feet
☑ **107**	Corrosion	1 FEET OF PREVIOUS CORROSION WITH 7/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER	2	1		Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

Span 2 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	36	1	1	0	Feet
515	Steel Protective Coating	308	276	30	2	0	Square Feet

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

General Comments

Span 2 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	16	21	1	0	Feet
515	Steel Protective Coating	308	238	0	0	70	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH 1/8 SECTION LOSS [AVERAGE 7/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	3	1	1	Feet
☑ **107**	Corrosion	1 FEET OF PREVIOUS CORROSION WITH 1/2 INCHES X FULL WIDTH REMAINING SECTION IN BOTTOM FLANGE AND 7/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED WITH ACTIVE SURFACE CORROSION.	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	4	40	40	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	PEELING PAINT ON FLANGES AND WEB	4	30	30	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)	UP TO 1/16 INCHES 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)	UP TO 1/16 INCHES 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	CORROSION WITH NO MEASURABLE SECTION LOSS	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	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	CORROSION WITH SECTION LOSS WITH GREATER THAN 75 PERCENT REMAINING	2	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)	COATING STARTING TO FAIL	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	0	1	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	4	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 Protective Coatings)	LIMITED EFFECTIVENESS OF PROTECTIVE COATING	3	1	1	Square Feet

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	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	SURFACE RUST	2	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	SURFACE RUST	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	CORROSION WITH SECTION LOSS WITH GREATER THAN 75 PERCENT REMAINING	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PAINT FAILED	4	1	1	Square Feet

General Comments

Span 3 Deck

Reinforced Concrete Deck

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Delamination/Spall	PAR--3 FOOT LONG X 15 INCHES WIDE X 2 INCHES DEEP SPALL WITH EXPOSED REBAR IN UNDERSIDE OF LEFT OVERHANG NEAR MID SPAN. MULTIPLE EXPOSED BARS TRANSVERSE AND LONGITUDINAL HAVE SECTION LOSS WITH 50 PERCENT AREA REMAINING	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	28	15	0	5	Feet
515	Steel Protective Coating	460	390	0	30	40	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR-- BEAM END AT BENT 3 IN THE LEFT LOWER FLANGE, CORROSION WITH SECTION LOSS DOWN TI KNIFE EDGE [AVERAGE 3/8 INCHES REMAINS FULL WIDTH OF FLANGE] FOR APPROXIMATELY 4 FEET LONG WITH EDGE HOLES UP TO 3/4 INCHES DIAMETER. AT THE SAME END IN THE LOWER 6 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 1/16 INCHES REMAINS] FOR APPROXIMATELY 4 FEET LONG WITH PERFORATIONS THROUGHOUT.	4	4	4	Feet
☑ **107**	Corrosion	PAR--CORROSION AROUND DIAPHRAGM OVER PIER 2- 2 INCHES WIDE WITH 3/8 INCHES AVERAGE REMAINING THICKESS AND 6 INCHES HIGH IN BOTTOM OF WEB 4 FEET LONG. CORROSION IN BOTTOM FLANGE 4 FOOT LONG WITH 7/16 INCH SECTION LOSS WITH 1/2 INCH AVERAGE REMAINING STARTING AT PIER 2	4	1	1	Feet
☑ **107**	Corrosion	SURFACE RUST ON TOP AND BOTTOM FLANGES AT VARIOUS LOCATIONS ALONG BEAM.	2	15		Feet

☑ **515**	Effectiveness (Steel Protective Coatings)	5 SQUARE FEET OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 3	4	10	10	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	4	30	30	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	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	28	0	0	Feet
515	Steel Protective Coating	460	388	50	10	12	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	1 FEET OF ACTIVE CORROSION WITH 9/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2	2	1		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
☑ **107**	Corrosion	SURFACE RUST ON TOP AND BOTTOM FLANGES AT VARIOUS LOCATIONS ALONG BEAM.	2	12		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS AT WEB AND BOTTOM FLANGE AT BENT 3	4	12	12	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	10	10	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	20	20	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	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	29	0	0	Feet
515	Steel Protective Coating	460	398	30	20	12	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	1 FEET OF ACTIVE CORROSION WITH 9/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2	2	1		Feet
☑ **107**	Corrosion	3 FEET OF ACTIVE CORROSION WITH 7/8 INCHES AVERAGE REMAINING SECTION FULL WIDTH IN BOTTOM FLANGE AND 9/16 INCHES REMAINING SECTION IN BOTTOM 6 INCHES 3 FEET LONG IN WEB AROUND END DIAPHRAGM AT BENT 3	2	3		Feet
☑ **107**	Corrosion	5 FEET 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)	5 SQUARE FEET OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 3	4	12	12	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	20	20	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	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	2	0	0	Feet
515	Steel Protective Coating	460	428	30	1	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	1 FEET OF ACTIVE CORROSION WITH 9/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 3	2	1		Feet
☑ **107**	Corrosion	1 FEET OF SURFACE CORROSION ON WEB AROUND END DIAPHRAGM AT BENT 2	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	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	40	0	3	5	Feet
515	Steel Protective Coating	460	419	0	0	41	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR-- BEAM END AT BENT 3 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. AT THE SAME END IN THE LOWER LEFT FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 3/4 INCHES AVERAGE REMAINS FULL WIDTH] FOR APPROXIMATELY 5 FEET LONG. AT 1.5 FEET OUT FROM THE SAME END IN THE LOWER 5 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 1/8 INCHES REMAINS] FOR APPROXIMATELY 3 FEET LONG.	4	5	5	Feet

☑ **107**	Corrosion	CORROSION AT PIER 2-3 FEET LONG ON BOTTOM FLANGE WITH 3/16 INCH LOSS WITH 3/4 INCH AVERAGE REMAINING FULL WIDTH AND WEB 1 FOOT LONG BELOW DIAPHRAGM 1/8 INCH LOSS WITH 1/2 INCH AVERAGE REMAINING	3	3	3	Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	5	5	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	6	6	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	4	30	30	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)	UP TO 1/16 INCHES WIDE TRANSVERSE/MAP CRACKING IN CURB PORTION OF RAIL	3	20	20	Feet
☑ **331**	Delamination/Spall	3 INCHES X 3/4 INCHES X 1/4 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS IN TOP OF CURB AT 15 FEET 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)	UP TO 1/16 INCHES WIDE TRANSVERSE/MAP CRACKING IN CURB PORTION OF RAIL	3	15	15	Feet
☑ **331**	Delamination/Spall	3 INCHES X 1 INCHES X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS 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	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	CORROSION WITH SECTION LOSS WITH GREATER THAN 75 PERCENT REMAINING	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	CORROSION WITH SECTION LOSS WITH GREATER THAN 75 PERCENT REMAINING	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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)	PROTECTIVE COATING FAILING	3	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	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)	PROTECTIVE COATING FAILING	3	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	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)	PROTECTIVE COATING FAILING	3	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	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)	PROTECTIVE COATING FAILING	3	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	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)	PROTECTIVE COATING FAILING	3	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	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)	PROTECTIVE COATING FAILING	3	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	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	CORROSION WITH SECTION LOSS WITH GREATER THAN 75 PERCENT REMAINING	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PROTECTIVE FAILED	4	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	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Corrosion	CORROSION WITH SECTION LOSS WITH GREATER THAN 75 PERCENT REMAINING	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PROTECTIVE FAILED	4	1	1	Square Feet

General Comments

Span 4 — Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	7	23	0	3	Feet
515	Steel Protective Coating	246	170	70	0	6	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR--BEAM END AT BENT 3 IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS FULL WIDTH OF FLANGE] FOR APPROXIMATELY 3 FEET LONG.	4	3	3	Feet
☑ **107**	Corrosion	2 FEET OF PREVIOUS CORROSION WITH UP TO 7/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND BOTTOM 3 INCHES OF WEB 3 FEET 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**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	40	40	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

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

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	11	0	2	Feet
515	Steel Protective Coating	246	192	50	0	4	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR--BEAM END AT BENT 4 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.	4	1	1	Feet
☑ **107**	Corrosion	PAR--SECTION LOSS IN BOTTOM FLANGE UP TO 1/4 INCHES WITH 1/2 INCHES AVERAGE REMAINING FULL WIDTH 9 INCHES LONG AT BEAM END OVER PIER 3.	4	1	1	Feet
☑ **107**	Corrosion	1 FEET OF CORROSION WITH 7/16 INCHES 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
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	4	4	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	20	20	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

Span 4 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	22	10	1	0	Feet
515	Steel Protective Coating	246	194	50	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	PAR--BEAM END AT BENT 4 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH SECTION LOSS [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. BEAM END HAS BEEN PAINTED WITH NO ACTIVE CORROSION	3	1	1	Feet
☑ **107**	Corrosion	FRECKLED RUST PRESENT ON TOP AND BOTTOM FLANGES AND WEB AT VARIOUS LOCATIONS ALONG BEAM	2	10		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	2	2	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	20	20	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

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

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	70	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	1 FEET OF PREVIOUS CORROSION WITH 7/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 3 HAS BEEN PAINTED	2	1		Feet
☑ **107**	Corrosion	1 FEET OF SURFACE CORROSION ON BOTTOM FLANGE AND PITTNG 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	20		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	1 SQUARE FEET 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
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

Span 4 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	6	26	0	1	Feet
515	Steel Protective Coating	246	163	80	1	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	PAR--SECTION LOSS UP TO 3/8 INCHES WITH 3/8 INCHES AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1 FEET 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.	4	1	1	Feet
☑ **107**	Corrosion	1 FEET 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**	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	50	50	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

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

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	935	0	40	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **510**	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP CRACKING UP TO 1/4 INCHES WIDE OVER BENT 4,	3	40	40	Square Feet

General Comments

NEW ASPHALT WEARING SURFACE

Span 4 — Left Bridge Rail

Concrete Railing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	UP TO 1/16 INCHES WIDE TRANSVERSE/MAP CRACKING IN CURB PORTION OF RAIL	3	12	12	Feet
☑ **331**	Delamination/Spall	3 INCHES X 1 INCHES X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS IN TOP OF CURB AT 10 FEET 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)	UP TO 1/16 INCHES 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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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 75PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	0	0	1	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **316**	Corrosion	PAR--UP TO 50 PERCENT SECTION LOSS ON LEFT ANCHOR BOLT	4	1	1	Each
☑ **316**	Corrosion	SECTION LOSS ON OUTER EDGES WITH GREATER THAN 75 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3		1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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	FRECKLED CORROSION	2	1		Each
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	1	1	Square Feet

General Comments

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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH LIGHT RUST STAINING PRESENT.	3	1	1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED	4	1	1	Square Feet

General Comments

2 FOOT LONG X 6 INCH WIDE BRACE PLATE ON TOP OF PEDESTAL AT PIER 3 RIGHT SIDE OF NEAR BEARING BEAM 4 SPAN 4

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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH LIGHT RUST STAINING PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS FAILED	4	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	0	0	1	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **316**	Connection	PAR--BEARING LATERAL RETROFIT PLATE ON LEFT SIDE OF BEARING WITH EXPOSED BENT ANCHOR BOLT DUE TO SPALL IN CAP	4	1	1	Each
☑ **316**	Corrosion	SECTION LOSS ON OUTER EDGES WITH GREATER THAN 75 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3		1	Each

☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	1	1	Square Feet	

General Comments

BEARING LATERAL RETROFIT PLATE ON LEFT SIDE OF BEARING

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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	FAILED COATING	4	1	1	Square Feet

General Comments

Span 5 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,106	1,088	13	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 INCHES DIAMETER X 1/2 INCHES DEEP	3	3	3	Square Feet
☑ **12**	Delamination/Spall	TWO SPALL WITH EXPOSED REBAR NO LOSS IN EAST EDGE OF DECK 4 INCHES DIAMETER X 1 INCHES DEEP AT 10 FEET FROM END BENT 2	3	2	2	Square Feet
☑ **12**	Delamination/Spall	A FEW DELAMINATIONS UP TO 6 INCH DIAMETER UNDER RIGHT OVERHANG	2	3	3	Square Feet
☑ **12**	Delamination/Spall	A FEW SMALL AREAS UP TO DELAMINATION 3 INCHES X 9 INCHES IN UNDERSIDE WEST/EAST OVERHANGS AT VARIOUS LOCATIONS	2	3	3	Square Feet
☑ **12**	Efflorescence/Rust Staining	7 FEET LONG HAIRLINE DIAGONAL CRACK WITH MINOR EFFLORESCENCE IN UNDERSIDE OF DECK BAY 4 AT ABUTMENT 2	2	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	0	2	Feet
515	Steel Protective Coating	257	183	70	0	4	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	PAR--1/4 INCH SECTION LOSS WITH 3/8 INCHES AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE. BEAM END HAS BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT. BOLTED REPAIR REPAIR PLATE ADDED AND DOES NOT EXTEND UNDER DEFECT AT PIER 4.	4	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 FAILED	4	4	4	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	40	40	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEETOF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

BOLTED PLATE REPAIR TO BOTTOM FLANGE WEST AND BOTH FACES OF WEB AT BENT 4 SPAN 5 BEAM 1 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	54	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	PAR--1 FEET LONG X 2 INCHES WIDE AREA OF PREVIOUS CORROSION WITH 1/4 INCHES 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 INCHES ON BOTTOM FLANGE 1 FEET 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	4	2	2	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	24	24	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEETOF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

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	50	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	1 FEET OF PREVIOUS CORROSION WITH 7/16 INCHES 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**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	20	20	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	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	60	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **107**	Corrosion	1 FEET OF PREVIOUS CORROSION WITH 7/16 INCHES 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	15		Feet
☑ **107**	Corrosion	MINOR SECTION LOSS LESS THAN 1/16 INCHES ON BOTTOM FLANGE 1 FEET 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.	4	2	2	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	30	30	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	Square Feet

General Comments

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	177	70	0	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

☑ **107**	Corrosion	PAR--BEAM END AT BENT 4 IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 1/4 INCHES AVERAGE REMAINS FULL WIDTH] FOR APPROXIMATELY 4 FEET LONG. AT THE SAME END IN THE LOWER 4 INCHES OF THE WEB, CORROSION WITH 100 PERCENT SECTION LOSS WITH 1 INCH X 1/2 INCH HOLE 2 FEET FROM BEAM END [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 4 FEET LONG.	4	4	4	Feet
☑ **107**	Corrosion	1 FEET OF PREVIOUS CORROSION WITH 7/16 INCHES 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
☑ **107**	Corrosion	SURFACE CORROSION ON BOTTOM FLANGE EAST FACE 10 INCHES LONG AT END BENT 2 NO SECTION LOSS	2	1		Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS FAILED	4	10	10	Square Feet
☑ **515**	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE	2	40	40	Square Feet
☑ **515**	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SQUARE FEET OF PEELING PAINT ON FLANGES AND WEB	2	30	30	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)	UP TO 1/16 INCHES WIDE TRANSVERSE/MAP CRACKING IN CURB PORTION OF RAIL	3	12	12	Feet
☑ **331**	Delamination/Spall	TWO SPALLS WITH EXPOSED REBAR NO LOSS 3 INCHES X 1 INCHES X 1/2 INCHES DEEP IN TOP OF CURB AT 12 FEET AND 6 FEET 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	15	3	15	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **331**	Cracking (RC and Other)	UP TO 1/16 INCHES WIDE TRANSVERSE/MAP CRACKING IN CURB PORTION OF RAIL	3	15	15	Feet
☑ **331**	Delamination/Spall	TWO SPALLS WITH EXPOSED REBAR NO LOSS 3 INCHES X 1 INCHES X 1/2 INCHES DEEP IN TOP/FRONT FACE OF CURB 4 FEET FROM END BENT 2	2	2	2	Feet

☑ **331**	Exposed Rebar	FAR END ON THE TOP OF THE REINFORCED CONCRETE RAIL, EXPOSED REBAR [APPROXIMATELY 5 INCHES LONG X 1/2 INCHES WIDE] WITH NO MEASURABLE SECTION LOSS	2	1	1	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	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 75PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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)	COATING STARTING TO FAIL	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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH LIGHT RUST STAINING PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH LIGHT RUST STAINING PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH LIGHT RUST STAINING PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	4	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	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 PERCENT REMAINING. BEARING HAS PREVIOUSLY BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT.	3	1	1	Each
☑ **515**	Effectiveness (Steel Protective Coatings)	COATING FAILED	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	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)	COATING STARTING TO FAIL	3	1	1	Square Feet

General Comments

Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	39	28	0	11	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	6 FEET LONG X 1/8 INCHES WIDE HORIZONTAL CRACK NORTH FACE UNDER BAY 1 AND A 1/16 INCH WIDE HORIZONTAL CRACK 1.5 FOOT LONG UNDER BEAM 4	3	6	6	Feet
☑ **234**	Cracking (RC and Other)	HORIZONTAL CRACK 3 FEET LONG UP TO 3/16 INCHES WIDE IN SOUTH FACE MID WAY BETWEEN COLUMNS 1 AND 2	3	3	3	Feet
☑ **234**	Cracking (RC and Other)	SOUTH FACE AT THE LEFT END, LOWER 10 INCHES, SPALLING WITH EXPOSED REBAR NO MEASURABLE SECTION LOSS [APPROXIMATLY 40 INCHES LONG X UP TO 2.5 INCHES DEEP]	3	2	2	Feet

General Comments

Bent 1 — Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Delamination/Spall	24 FEET X 9 INCHES X 2 INCHES DEEP SPALL AND 5 FOOT X 3 FOOT DELAMINATION AT NORTHEAST CORNER	3		3	Each
☑ **205**	Delamination/Spall	6 FOOT X 9 INCHES X 2 INCHES 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)	12 FOOT HIGH X 2 FEET WIDE DELAMINATION WITH VERTICAL CRACKS UP TO 7 FEET LONG AND 1/16 INCHES WIDE IN NORTH FACE	3		7	Each
☑ 205	Delamination/Spall	8 FOOT HIGH X 1 FOOT WIDE DELAMINATION WITH CRACKS UP TO 1/8 INCHES WIDE IN NORTHEAST CORNER	3	1	4	Each
☑ 205	Delamination/Spall	6 FOOT X 1.5 FOOT AREA OF DELAMINATION ON SOUTHEAST CORNER	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	57	1	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 215	Delamination/Spall	SPALL WITH EXPOSED REBAR NO LOSSS 12 INCHES X 2 INCHES X 1/2 INCHES DEEP WITH CRACK WITH EFFLORESCENCE 12 INCHES LONG X UP TO 1/32 INCHES WIDE AT WEST END	3	2	2	Feet
☑ 215	Cracking (RC and Other)	1 FEET LONG VERTICAL HAIRLINE TO 1/32 INCHES CRACK BAY 3	2	1		Feet
☑ 215	Cracking (RC and Other)	1 FEET LONG HORIZONTAL HAIRLINE CRACK AT EAST END	1	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	37	0	11	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 234	Cracking (RC and Other)	3 FEET HORIZONTAL CRACK UP TO 1/16 INCHES WIDE UNDER BAY 4	3	3	3	Feet
☑ 234	Cracking (RC and Other)	6 FEET HORIZONTAL CRACK UP TO 1/8 INCHES WIDE UNDER BEAM 1	3	6	6	Feet
☑ 234	Delamination/Spall	8 INCHES DIAMETER X 1 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS UNDER BAY 4	3	1	1	Feet
☑ 234	Delamination/Spall	8 INCHES X 2 FEET X 3/4 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS UNDER BAY 4	3	1	1	Feet
☑ 234	Delamination/Spall	DELAMINATION 3 FEET LONG X 2 FEET HIGH UNDER BEAM 1 NORTH FACE	2		3	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	10	11	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 234	Cracking (RC and Other)	6 FEET LONG HORIZONTAL CRACK UP TO 1/4 INCHES WIDE UNDER BAYS 1 AND 2 NORTH FACE	3	6	6	Feet
☑ 234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/16 INCHES WIDE BEAM 1 PEDESTAL SPAN 2 SIDE	3	1	1	Feet
☑ 234	Delamination/Spall	3 FEET X 1 FEET X 6 INCHES DELAMINATION WITH A SPALL 2 FOOT X 9 INCH X 3 INCH DEEP WITH EXPOSED REBAR NO LOSS IN UNDERSIDE UNDER BEAM 5 IN FLUTED PORTION	3	3	3	Feet
☑ 234	Delamination/Spall	8 INCHES DIAMETER DELAMINATION AND 6 INCHES DIAMETER X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS IN NORTH FACE UNDER BEAM 1	3	1	1	Feet
☑ 234	Cracking (RC and Other)	2 FEET LONG 1/32 INCHES HORIZONTAL CRACK NORTH FACE UNDER BEAM 4	2	2		Feet
☑ 234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/32 INCHES WIDE IN BEAM 2 PEDESTAL EAST FACE	2	1		Feet
☑ 234	Cracking (RC and Other)	HORIZONTAL CRACK UP TO 1/32 INCHES WIDE ON SOUTH FACE UNDER BEAM 4	2	3		Feet
☑ 234	Delamination/Spall	3 FEET X 1.5 FEET HIGH DELAMINATION IN SOUTH FACE UNDER BEAM 3	2	3	3	Feet
☑ 234	Patched Area	8 INCH X 6 INCH SOUND PATCH EAST FACE OF PEDESTAL UNDER BEAM 2	2	1		Feet

General Comments

Bent 2 Pile 1

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Cracking (RC and Other)	VERTICAL THROUGH CRACK 7 FOOT LONG UP TO 1/4 INCH WIDE WITH EDGE SPALLING IN MIDDLE OF CRASH WALL BOTH FACES	3	1	14	Each

General Comments

Bent 2 Pile 2

Reinforced Concrete Column

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ 205	Delamination/Spall	SPALL 10 INCH X 9 INCH X 2 INCH DEEP WITH EXPOSED REBAR NO LOSS AT TOP SOUTHWEST CORNER	3	1	1	Each

General Comments

End Bent 2 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	60	59	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Delamination/Spall	6 INCH X 3 INCH DELAMINATION IN BAY 1 AT BEAM 1	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 FEET LONG UP TO 1/8 INCH 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	37	1	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Delamination/Spall	SPALL 9 INCH X 9 INCH X 3 INCHES DEEP WITH EXPOSED REBAR NO LOSS IN PEDESTAL AT BEAM 5 NORTH FACE. PAR SENT UNDER BEARING	3	1	1	Feet
☑ **234**	Delamination/Spall	SPALL WITH EXPOSED REBAR NO LOSS 1 FEET X 9 INCHES X 1 INCHES DEEP IN NORTH FACE UNDER BEAM 4	3	1	1	Feet
☑ **234**	Delamination/Spall	9 INCHES DIAMETER DELAMINATION WITH SPALL 3 INCH X 2 INCH X 1 INCH DEEP WITH EXPOSED REBAR NO LOSS 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	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	VERTICAL THROUGH CRACK 7 FOOT LONG X 1/8 INCHES WIDE IN MIDDLE OF CRASHWALL BOTH FACES	3		14	Each

☑ **205**	Delamination/Spall	9 INCHES X 6 INCHES X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS IN SOUTH FACE BELOW CAP	3	1	1	Each	
☑ **205**	Cracking (RC and Other)	AREA OF HAIRLINE MAP CRACKING 10 FEET LONG ON SOUTH FACE OF CRASH WALL	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**	Cracking (RC and Other)	PAR--SOUTHEAST CORNER, SPALLING WITH EXPOSED REBAR [APPROXIMATELY 4 FEET HIGH X UP TO 1.25 FEET WIDE X UP TO 3 INCHES DEEP]	3		4	Each
☑ **205**	Delamination/Spall	PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FOOT X 1 FOOT X 4 INCHES DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS	3	1	3	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 INCHES WIDE HORIZONTAL CRACKS ON EAST FACE OF CAP THAT EXTEND ON TO NORTH FACE 1.5 FEET 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	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **205**	Cracking (RC and Other)	VERTICAL CRACK 5 FEET LONG UP TO 1/8 INCHES WIDE AT NORTHEAST AND NORTHWEST CORNERS	3	1	5	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**	Cracking (RC and Other)	6 FOOT X 9 INCH AREA OF DELAMINATION AT NORTHWEST CORNER	2	1		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	Far Bearing 2	Other Bearing	Other Bearings	1
Span 1	Near 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	Far Bearing 4	Other Bearing	Other Bearings	1
Span 1	Near 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 1	DELINEATOR SW	Delineator	Warning Signs	1
Span 1	Posting Sign SE	Weight Limit	Regulatory Sign	1
Span 1	DELINEATOR SE	Delineator	Warning Signs	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	Expansion Joint at Bent 1	Standard Joint	Pourable Joint Seal	40
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1125
Span 2	Far Bearing 1	Other Bearing	Other Bearings	1
Span 2	Near 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	Far Bearing 3	Other Bearing	Other Bearings	1
Span 2	Near 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	Far Bearing 5	Other Bearing	Other Bearings	1
Span 2	Near 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

Elements Verfied

Location	Name	Component	Element Name	Amount
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
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	48
Span 3	Expansion Joint at Bent 2	Standard Joint	Pourable Joint Seal	40
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	Far Bearing 2	Other Bearing	Other Bearings	1
Span 3	Near 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	Far Bearing 4	Other Bearing	Other Bearings	1
Span 3	Near 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	Expansion Joint at Bent 3	Standard Joint	Pourable Joint Seal	40
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	975
Span 4	Far Bearing 1	Other Bearing	Other Bearings	1
Span 4	Near 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	Far Bearing 3	Other Bearing	Other Bearings	1
Span 4	Near 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	Far Bearing 5	Other Bearing	Other Bearings	1
Span 4	Near 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

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 5	Expansion Joint at Bent 4	Standard Joint	Pourable Joint Seal	40
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	990
Span 5	Far Bearing 1	Other Bearing	Other Bearings	1
Span 5	Near 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	Far Bearing 3	Other Bearing	Other Bearings	1
Span 5	Near 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	Far Bearing 5	Other Bearing	Other Bearings	1
Span 5	Near Bearing 5	Other Bearing	Other Bearings	1
Span 5	Posting Sign NW	Weight Limit	Regulatory Sign	1
Span 5	DELINEATOR NW	Delineator	Warning Signs	1
Span 5	DELINEATOR NE	Delineator	Warning Signs	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	39
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 1 Wearing Surface

NEW ASPHALT WEARING SURFACE

Span 2 Wearing Surface

NEW ASPHALT WEARING SURFACE

Span 3 Wearing Surface

NEW ASPHALT WEARING SURFACE

Span 5 Wearing Surface

NEW ASPHALT WEARING SURFACE

National Bridge and NC Inspection Items

Structure Number: 500037 **Inspection Date:** 11/03/2023

National Bridge Inventory Items

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

Note:

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

For overall NBI coding grade, see cover sheet.

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**F**	**6317**	**3376**
Drainage System	G, F, P, or C	**G**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		**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	**7**
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	**Y**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**N**
Portion of Structure in > 3' of water	YES/NO	**N**

National Bridge and NC SMU Inspection Item Details

Structure Number: 500037 **Inspection Date:** 11/03/2023

Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	6317
Details	MINOR DEBRIS ACCUMULATION ALONG LEFT RAIL						

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

Details 4 INCHES X 3 INCHES X 18 INCHES SPALL WITH EXPOSED REBAR NO LOSS IN WEST OVERHANG AT BENT 1 END DIAPHRAGM AT BEAM 1

DIAPHRAGM SPALL UP TO 4 FOOT LONG X 1 FOOT HIGH X 4 INCHES DEEP WITH EXPOSED REBAR NO LOSS OVER PIER 1, BAY 4

DIAPHRAGM SPALL UP TO 1 FOOT LONG X 1 FOOT HIGH X 3 INCHES DEEP WITH EXPOSED REBAR NO LOSS OVER PIER 1, BAY 2

DIAPHRAGM 2 SPALLS UP TO 4 FOOT LONG X 1 FOOT HIGH X 4 INCHES DEEP WITH EXPOSED REBAR NO LOSS OVER PIER 1, BAY 1

DIAPHRAGM SPALL UP TO 2 FOOT LONG X 10 INCHES HIGH X 4 INCHES DEEP WITH EXPOSED REBAR NO LOSS OVER PIER 2, BAY 3

DIAPHRAGM SPALL UP TO 4 FOOT LONG X 1 FOOT HIGH X 4 INCHES DEEP WITH EXPOSED REBAR NO LOSS OVER PIER 2, BAY 4

DIAPHRAGM SPALL UP TO 1 FOOT LONG X 10 INCHES HIGH X 3 INCHES DEEP WITH EXPOSED REBAR NO LOSS OVER PIER 2, BAY 3

DIAPHRAGM SPALL UP TO 3 FOOT LONG X 10 INCHES HIGH X 3 INCHES DEEP WITH EXPOSED REBAR NO LOSS OVER PIER 4, BAY 1

Span 4 Wearing Surface: FULL WIDTH TRANSVERSE/MAP CRACKING UP TO 1/4 INCHES WIDE OVER BENT 4,

MINOR DEBRIS ACCUMULATION ALONG LEFT RAIL

Span 1 Left Bridge Rail: 4 INCHES DIAMETER X 1 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS AT END POST AT SOUTHWEST CORNER

Span 1 Right Bridge Rail: 3 INCHES X 1 INCHES X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS IN TOP OF CURB AT GUARDRAIL ATTACHMENT

Span 3 Right Bridge Rail: 3 INCHES X 1 INCHES X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS IN FACE OF RAIL POST AT BENT 2

Span 4 Left Bridge Rail: 3 INCHES X 1 INCHES X 1/2 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS IN TOP OF CURB AT 10 FEET FROM BENT 4

Span 5 Left Bridge Rail: TWO SPALLS WITH EXPOSED REBAR NO LOSS 3 INCHES X 1 INCHES X 1/2 INCHES DEEP IN TOP OF CURB AT 12 FEET AND 6 FEET FROM END BENT 2

Span 5 Right Bridge Rail: FAR END ON THE TOP OF THE REINFORCED CONCRETE RAIL, EXPOSED REBAR [APPROXIMATELY 5 INCHES LONG X 1/2 INCHES WIDE] WITH NO MEASURABLE SECTION LOSS

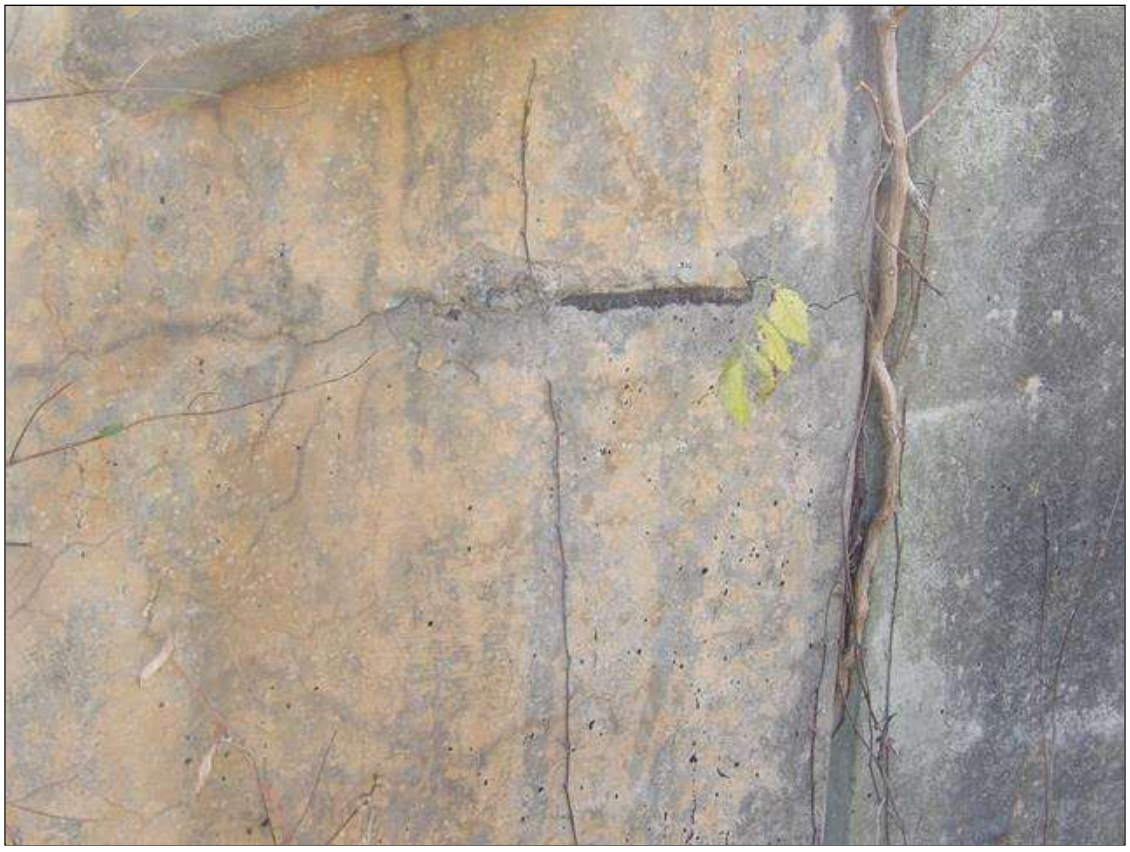
End Bent 1 Cap 1: 6 FEET HORIZONTAL CRACK UP TO 1/8 INCHES WIDE UNDER BEAM 1

End Bent 1 Cap 1: 3 FEET HORIZONTAL CRACK UP TO 1/16 INCHES WIDE UNDER BAY 4

End Bent 1 Cap 1: 8 INCHES DIAMETER X 1 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS UNDER BAY 4

End Bent 1 Cap 1: 8 INCHES X 2 FEET X 3/4 INCHES DEEP SPALL WITH EXPOSED REBAR NO LOSS UNDER BAY 4

End Bent 1 Abutment: 1 FEET LONG VERTICAL HAIRLINE TO 1/32 INCHES CRACK BAY 3



End Bent 1 Abutment: SPALL WITH EXPOSED REBAR NO LOSSS 12 INCHES X 2 INCHES X 1/2 INCHES DEEP WITH CRACK WITH EFFLORESCENCE 12 INCHES LONG X UP TO 1/32 INCHES WIDE AT WEST END

End Bent 1 Cap 1: DELAMINATION 3 FEET LONG X 2 FEET HIGH UNDER BEAM 1 NORTH FACE

Bent 1 Cap 1: SOUTH FACE AT THE LEFT END, LOWER 10 INCHES, SPALLING WITH EXPOSED REBAR NO MEASURABLE SECTION LOSS [APPROXIMATLY 40 INCHES LONG X UP TO 2.5 INCHES DEEP]

Bent 1 Cap 1: HORIZONTAL CRACK 3 FEET LONG UP TO 3/16 INCHES WIDE IN SOUTH FACE MID WAY BETWEEN COLUMNS 1 AND 2

Bent 1 Cap 1: 6 FEET LONG X 1/8 INCHES WIDE HORIZONTAL CRACK NORTH FACE UNDER BAY 1 AND A 1/16 INCH WIDE HORIZONTAL CRACK 1.5 FOOT LONG UNDER BEAM 4

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

Bent 1 Pile 1: 24 FEET X 9 INCHES X 2 INCHES DEEP SPALL AND 5 FOOT X 3 FOOT DELAMINATION AT NORTHEAST CORNER

Bent 1 Pile 2: 6 FOOT X 1.5 FOOT AREA OF DELAMINATION ON SOUTHEAST CORNER

Span 1 Beam 1: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 3 INCHES WIDE WITH SECTION LOSS [AVERAGE 1/4 INCHES AVERAGE REMAINING] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. AT THE LOWER CORNER OF THE INTERFACE THERE IS A HOLE [APPROXIMATELY 1/2 INCHES DIAMETER]. AT THE SAME END IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 7/16 INCHES REMAINS] FOR APPROXIMATELY 6 FEET LONG. AT THE SAME END IN THE LOWER 3 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 6 FEET LONG.

Span 2 Beam 1: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

Span 2 Beam 2: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 3 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

TYPICAL CORROSION UP TO 1/8 INCH LOSS X UP TO 2 FEET HIGH AT BEAM ENDS ADJACENT TO DIAPHRAGMS OVER PIERS WITH 7/16 INCH AVERAGE REMAINING. BEAM 3 SPAN 1 AT PIER 1 SHOWN

Span 1 Beam 5: PAR--BEAM END AT BENT 1 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

TYPICAL DIAPHRAGM SPALL UP TO 4 FOOT LONG X 1 FOOT HIGH X 4 INCHES DEEP WITH EXPOSED REBAR
NO LOSS OVER PIERS, SPAN 2 BAY 4 OVER PIER 1 SHOWN

Span 2 Beam 1: 1 FEET OF CORROSION WITH 1/2 INCHES REMAINING SECTION IN BOTTOM FLANGE AND 7/16 INCHES REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PREVIOUSLY PAINTED OVER WITH ACTIVE CORROSION.

Span 3 Beam 1: PAR--CORROSION AROUND DIAPHRAGM OVER PIER 2- 2 INCHES WIDE WITH 3/8 INCHES AVERAGE REMAINING THICKESS AND 6 INCHES HIGH IN BOTTOM OF WEB 4 FEET LONG. CORROSION IN BOTTOM FLANGE 4 FOOT LONG WITH 7/16 INCH SECTION LOSS WITH 1/2 INCH AVERAGE REMAINING STARTING AT PIER 2

Span 3 Deck: PAR--3 FOOT LONG X 15 INCHES WIDE X 2 INCHES DEEP SPALL WITH EXPOSED REBAR IN UNDERSIDE OF LEFT OVERHANG NEAR MID SPAN. MULTIPLE EXPOSED BARS TRANSVERSE AND LONGITUDINAL HAVE SECTION LOSS WITH 50 PERCENT AREA REMAINING

Bent 2 Cap 1: 3 FEET X 1.5 FEET HIGH DELAMINATION IN SOUTH FACE UNDER BEAM 3

Bent 2 Cap 1: 8 INCH X 6 INCH SOUND PATCH EAST FACE OF PEDESTAL UNDER BEAM 2, PEDESTAL UNDER BEAM 3 SIMILAR

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

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

Bent 2 Cap 1: 3 FEET X 1 FEET X 6 INCHES DELAMINATION WITH A SPALL 2 FOOT X 9 INCH X 3 INCH DEEP WITH EXPOSED REBAR NO LOSS IN UNDERSIDE UNDER BEAM 5 IN FLUTED PORTION

Bent 2 Pile 1: VERTICAL THRU CRACK 7 FOOT LONG UP TO 1/4 INCH WIDE WITH EDGE SPALLING IN MIDDLE OF CRASH WALL BOTH FACES

Bent 2 Pile 2: SPALL 10 INCH X 9 INCH X 2 INCH DEEP WITH EXPOSED REBAR NO LOSS AT TOP SOUTHWEST CORNER

Bent 3 Cap 1: SPALL WITH EXPOSED REBAR NO LOSS 1 FEET X 9 INCHES X 1 INCHES DEEP IN NORTH FACE UNDER BEAM 4

Bent 3 Cap 1: 9 INCHES DIAMETER DELAMINATION WITH SPALL 3 INCH X 2 INCH X 1 INCH DEEP WITH EXPOSED REBAR NO LOSS NORTH FACE UNDER BEAM 5

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

Bent 3 Pile 1: VERTICAL THROUGH CRACK 7 FOOT LONG X 1/8 INCHES WIDE IN MIDDLE OF CRASHWALL BOTH FACES

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

Span 3 Beam 1: PAR-- BEAM END AT BENT 3 IN THE LEFT LOWER FLANGE, CORROSION WITH SECTION LOSS DOWN TI KNIFE EDGE [AVERAGE 3/8 INCHES REMAINS FULL WIDTH OF FLANGE] FOR APPROXIMATELY 4 FEET LONG WITH EDGE HOLES UP TO 3/4 INCHES DIAMETER. AT THE SAME END IN THE LOWER 6 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 1/16 INCHES REMAINS] FOR APPROXIMATELY 4 FEET LONG WITH PERFORATIONS THROUGHOUT.

SPAN 4 BEAM 1 BOLTED PLATE REPAIR FULL HEIGHT X 1 FOOT LONG TO WEB AT BENT 3, BEAMS 3 AND 5 SIMILAR

Span 4 Beam 1: PAR--BEAM END AT BENT 3 IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS FULL WIDTH OF FLANGE] FOR APPROXIMATELY 3 FEET LONG.

Span 4 Beam 2: PAR--SECTION LOSS IN BOTTOM FLANGE UP TO 1/4 INCHES WITH 1/2 INCHES AVERAGE REMAINING FULL WIDTH 9 INCHES LONG AT BEAM END OVER PIER 3.

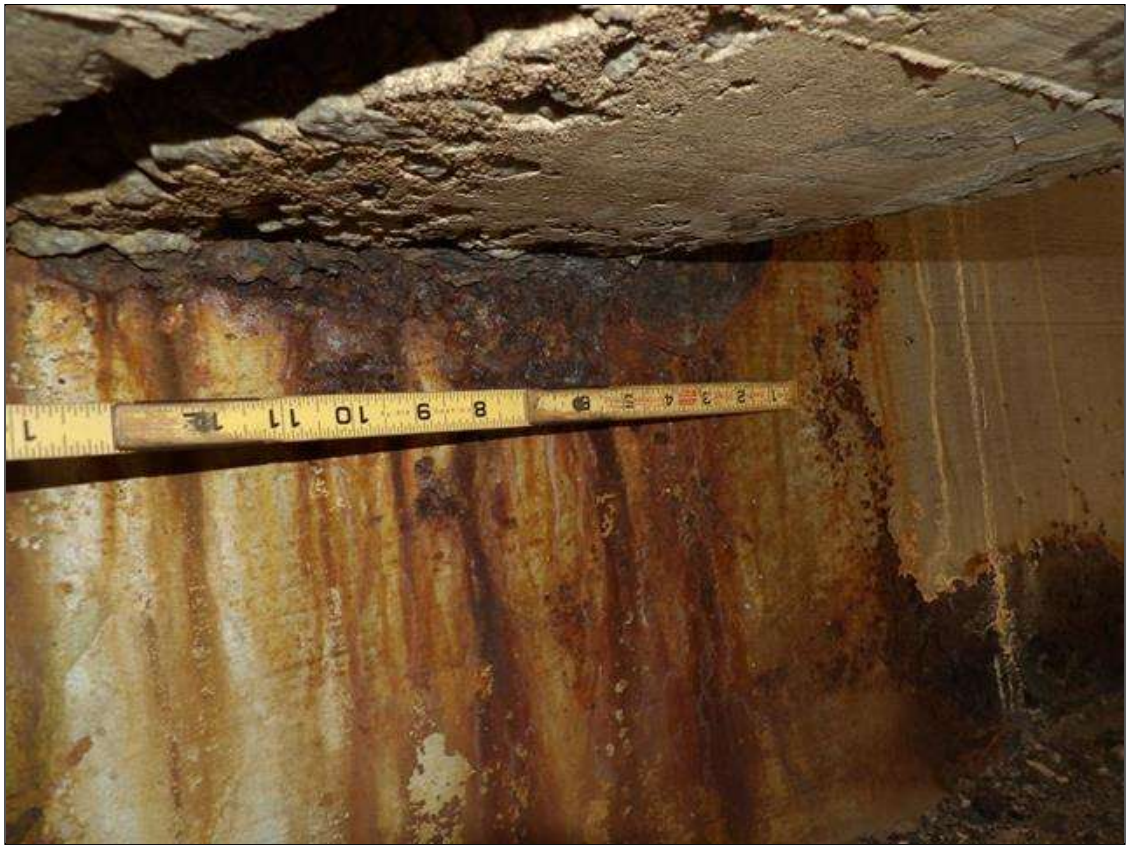
Span 4 Near Bearing 2: PAR--UP TO 50 PERCENT SECTION LOSS ON LEFT ANCHOR BOLT

2 FOOT LONG X 6 INCH WIDE BRACE PLATE ON TOP OF PEDESTAL AT PIER 3 RIGHT SIDE OF NEAR BEARING BEAM 4 SPAN 4

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

Span 4 Beam 5: PAR--SECTION LOSS UP TO 3/8 INCHES WITH 3/8 INCHES AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1 FEET 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 4 Near Bearing 5: PAR--BEARING LATERAL RETROFIT PLATE ON LEFT SIDE OF BEARING WITH EXPOSED BENT ANCHOR BOLT DUE TO SPALL IN CAP



Span 3 Beam 5: PAR-- BEAM END AT BENT 3 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 2 INCHES WIDE WITH SECTION LOSS [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. AT THE SAME END IN THE LOWER LEFT FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 3/4 INCHES AVERAGE REMAINS FULL WIDTH] FOR APPROXIMATELY 5 FEET LONG. AT 1.5 FEET OUT FROM THE SAME END IN THE LOWER 5 INCHES OF THE WEB, CORROSION WITH SECTION LOSS [AVERAGE 1/8 INCHES REMAINS] FOR APPROXIMATELY 3 FEET LONG.

Bent 3 Cap 1: SPALL 9 INCH X 9 INCH X 3 INCHES DEEP WITH EXPOSED REBAR NO LOSS IN PEDESTAL AT BEAM 5 NORTH FACE. PAR SENT UNDER BEARING

Span 5 Beam 1: PAR--1/4 INCH SECTION LOSS WITH 3/8 INCHES AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE. BEAM END HAS BEEN PAINTED WITH ACTIVE SURFACE CORROSION PRESENT. BOLTED REPAIR REPAIR PLATE ADDED AND DOES NOT EXTEND UNDER DEFECT AT PIER 4.

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

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

Span 4 Beam 2: PAR--BEAM END AT BENT 4 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH SECTION LOSS [AVERAGE 3/8 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM.

Span 4 Beam 3: PAR--BEAM END AT BENT 4 AT THE INTERFACE WITH THE REINFORCED CONCRETE DIAPHRAGM, THERE IS A BAND OF CORROSION UP TO 1 INCHES WIDE WITH SECTION LOSS [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 1 FEET LONG X UP TO THE FULL HEIGHT OF THE DIAPHRAGM. BEAM END HAS BEEN PAINTED WITH NO ACTIVE CORROSION

Span 5 Beam 5: PAR--BEAM END AT BENT 4 IN THE LOWER FLANGE, CORROSION WITH SECTION LOSS [AVERAGE 1/4 INCHES AVERAGE REMAINS FULL WIDTH] FOR APPROXIMATELY 4 FEET LONG. AT THE SAME END IN THE LOWER 4 INCHES OF THE WEB, CORROSION WITH 100 PERCENT SECTION LOSS WITH 1 INCH X 1/2 INCH HOLE 2 FEET FROM BEAM END [AVERAGE 5/16 INCHES REMAINS] FOR APPROXIMATELY 4 FEET LONG.

Bent 4 Pile 1: VERTICAL CRACK 5 FEET LONG UP TO 1/8 INCHES WIDE AT NORTHEAST AND NORTHWEST CORNERS

Bent 4 Pile 2: 6 FOOT X 9 INCH AREA OF DELAMINATION AT NORTHWEST CORNER

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

TYPICAL--SPALL WITH EXPOSED REBAR NO LOSS IN EAST/WEST EDGES OF DECK 4 INCHES DIAMETER X 1 INCHES DEEP IN SPAN 5 DECK

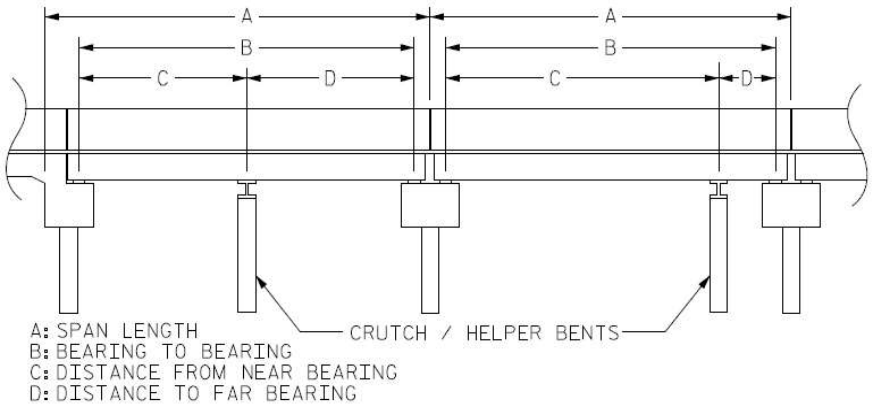
Span 5 Deck: 7 FEET LONG HAIRLINE DIAGONAL CRACK WITH MINOR EFFLORESCENCE IN UNDERSIDE OF DECK BAY 4 AT ABUTMENT 2

Bent 3 Pile 2: PAR--SOUTHEAST CORNER, SPALLING WITH EXPOSED REBAR [APPROXIMATELY 4 FEET HIGH X UP TO 1.25 FEET WIDE X UP TO 3 INCHES DEEP]

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			

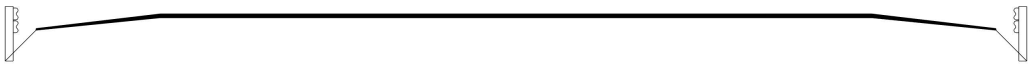
Structure Number: 500037 Span: 3 Route Name: Railroad

LOOKING EAST THROUGH SPAN 3

Route Number: 80000000	**Route Name:** Railroad			**Reference Feature:** R
Minimum Vertical Clearance 21.250 feet	**Maximum Minimum Vertical Clearance** feet			
Total Horizontal Clearance 33.250 feet	**Lateral Clearances: Left:** 21.500 feet **Right** 11.750 feet			
☐ **Base Highway Network**	**LRS Inventory Route, Sub Route Number**			
Milepost: 0.000	**Number of Lanes:**	**ADT:**	**Year of ADT:**	**Percentage of Trucks:** 0
☐ **National Highway System**	☐ **STRAHNET Highway Designator**			
Functional Classification	**Direction of Traffic:**			

Bridge Inspection Field Sketch

MEASUREMENTS TAKEN 15 FT SOUTH OF END BENT 1



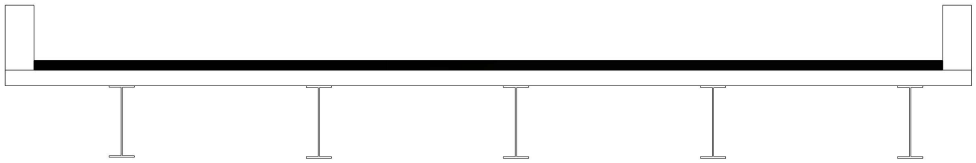
Roadway	23ft Wide	2 Paved Lanes	Looking North
Left Shoulder	5ft Wide	4ft Paved	1ft Unpaved
Right Shoulder	5ft Wide	4ft Paved	1ft Unpaved
Left Guardrail	5ft from road		
Right Guardrail	5ft from road		

Title	Description
APPROACH ROADWAY DETAILS	LOOKING NORTH

Structure No:	Drawn By:	Date:	Filename:
500037	LOOKING NORTH	11/6/2023	S001470000454.wes

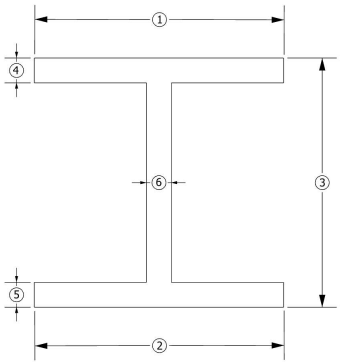
Bridge Inspection Field Sketch

Deck Width/Out to Out	35.417ft	Between Rails			33.333ft
Clear Roadway	30.083ft	Wearing Surface			4in
Median Width		Median Height			
Curb Height		Left	7.5in	Right	7.5in
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	10in	Right	10in
Top of Rail to Deck/Wearing Surface		Left	1.917ft	Right	1.917ft
Bridge Rail Type		Left	Type 14	Right	Type 14



Measurements for Span #	1		
Deck Thickness	6.5in	Left Overhang	4.041ft
Top of Rail to Bottom of Beam (Avg)	5.292ft	Right Overhang	4.041ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	10.5in	29.75in	4.041ft	Left Edge of Deck
2	Plate Girder	10.5in	30.25in	6.833ft	Beam 1
3	Plate Girder	10.5in	30.25in	6.833ft	Beam 2
4	Plate Girder	10.5in	30.25in	6.833ft	Beam 3
5	Plate Girder	10.5in	30.25in	6.833ft	Beam 4



SPANS 1 & 2

Beams 2-5	
1	10.5in
2	10.5in
3	**30.25in
4	*0.75in
5	*0.75in
6	0.565in

* BEAM 1 = 0.625in

** BEAM 1 = 29.75in

SPAN 3

All Beams	
1	12.0in
2	12.0in
3	35.875in
4	0.938in
5	0.938in
6	0.625in

SPANS 4 & 5

Beams 2-4	
1	10.0in
2	10.0in
3	**27.875
4	*0.75in
5	*0.75in
6	0.50in

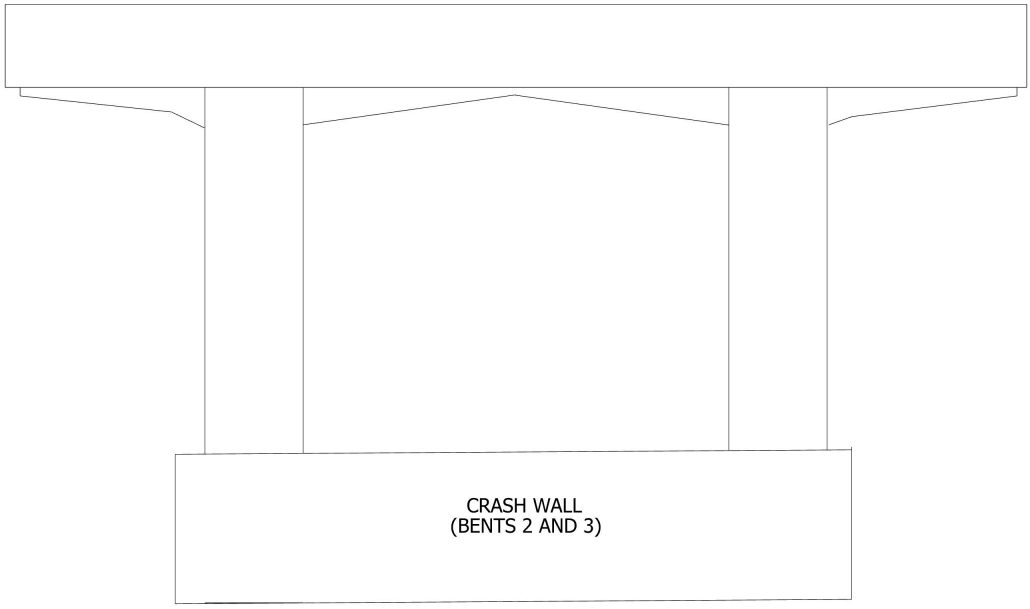
* BEAMS 1 & 5 = 0.625in

** BEAMS1 & 5 = 27.50in

Title	Description
TYPICAL SECTION DETAILS	SPANS 1 - 5

Structure No: 500037	Drawn By: RFW	Date: 11/6/2023	Filename: S001470000455.wes

Bridge Inspection Field Sketch



Caps							
#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	39ft	30in	38in	2ft	2ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	9.5ft	Left End of Bent	45in	24in	25ft
2	Pile 2	Reinforced Concrete Column	20ft	Pile 1	45in	24in	25ft

Title	Description
BENT DETAILS	BENTS 1 - 4

Structure No: 500037	Drawn By: RFW	Date: 11/6/2023	Filename: S001470000456.wes

GUARDRAIL TERMINAL END NORTHWEST CORNER ALL OTHERS SIMILAR

LOOKING SOUTH

GUARDRAIL POST SPACING MIDWAY NORTHWEST SHOWN ALL OTHERS SIMILAR

GUARDRAIL POST SPACING AT BRIDGE NORTHWEST SHOWN ALL OTHERS SIMILAR

GUARDRAIL ATTACHMENT TO BRIDGE NORTHWEST SHOWN ALL OTHERS SIMILAR

POSTING SIGN AT NORTH APPROACH

LOOKING WEST OVER SPAN 3

LOOKING EAST OVER SPAN 3

POSTING SIGN AT SOUTH APPROACH

LOOKING NORTH

SOUTH APPROACH LOOKING SOUTH

NORTH APPROACH LOOKING NORTH

NEW ASPHALT WEARING SURFACE

ABUTMENT 1, ABUTMENT 2 SIMILAR

PIER 1, PIER 4 SIMILAR

PIER 2, PIER 3 SIMILAR

SUPERSTRUCTURE UNDERSIDE SPAN 2 SHOWN ALL OTHERS SIMILAR

WEST ELEVATION

LOOKING EAST THROUGH SPAN 3

LOOKING WEST THROUGH SPAN 3

EAST ELEVATION

TYPICAL BEARING BEAM 2 AT PIER 1 SPAN 2 SHOWN