



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **PARS SUBMITTED**



# Structure Safety Report

## Routine Element Inspection - Contract

INSPECTION DATE: 03/07/2022

DIVISION: 13 COUNTY: MADISON STRUCTURE NUMBER: 560149 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1318 MILE POST: \_\_\_\_\_

LOCATION: .15 MI.W.JCT.SR1334

FEATURE INTERSECTED: BIG LAUREL CREEK

LATITUDE: 35° 55' 11.57" LONGITUDE: 82° 40' 13.76"

SUPERSTRUCTURE: TIMBER FLOOR ON SALVAGE I-BEAMS

SUBSTRUCTURE: EXISTING YOUNT MASONRY ABUTMENTS AND PIER

SPANS: 2 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL  TEMPORARY SHORING  SCOUR CRITICAL  SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 7/7 SUPERSTRUCTURE 4/4 SUBSTRUCTURE 4/4 CULVERT N/N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: (4) DELINEATORS, (2) ONE LANE BRIDGE



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

DIRECTION OF INSPECTION W-E

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

WEST APPROACH

INSPECTED BY RICK POOLE	SIGNATURE 	ASSISTED BY N. KING, C. BARBER, K. LO
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 560149  
 (8) STRUCTURE NUMBER (FEDERAL) 1150149  
 (5) INVENTORY ROUTE (ON/UNDER) ON 131013180  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 13  
 (3) COUNTY CODE (FEDERAL) 115 (4) PLACE CODE 00000  
 (6) FEATURE INTERSECTED BIG LAUREL CREEK  
 (7) FACILITY CARRIED SR1318  
 (9) LOCATION .15 MI.W.JCT.SR1334  
 (11) MILEPOINT 0.0  
 (12) BASE HIGHWAY NETWORK 0  
 (13) LRS INVENTORY ROUTE & SUBROUTE  
 (16) LATITUDE 35° 55' 11.57" (17) LONGITUDE 82° 40' 13.76"  
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED  
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 44.92  
 STATUS = Structurally Deficient

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES  
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0  
 (26) FUNCTIONAL CLASS Rural Minor Collector 08  
 (100) STRAHNET HIGHWAY Not a STRAHNET Route 0  
 (101) PARALLEL STRUCTURE No parallel structure exists N  
 (102) DIRECTION OF TRAFFIC One lane bridge 3  
 (103) TEMPORARY STRUCTURE  
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0  
 (20) TOLL On Free Road 3  
 (21) MAINT - 01  
 (22) OWNER - 01  
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Steel  
 TYPE Stringer/Multi-beam or girder CODE 302  
 (44) STRUCTURE TYPE APPROACH  
 TYPE CODE  
 (45) NUMBER OF SPANS IN MAIN UNIT 2  
 (46) NUMBER OF SPANS IN APPROACH 0  
 (107) DECK STRUCTURE TYPE CODE 8  
 (108) WEARING SURFACE/PROTECTIVE SYSTEM  
 (A) TYPE OF WEARING SURFACE CODE 6  
 (B) TYPE OF MEMBRANE CODE 0  
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 7  
 (59) SUPERSTRUCTURE 4  
 (60) SUBSTRUCTURE 4  
 (61) CHANNEL & CHANNEL PROTECTION 6  
 (62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD Unknown 0  
 (63) OPERATING RATING METHOD - Load Factor 1  
 (64) OPERATING RATING - HS-26 47  
 (65) INVENTORY RATING METHOD - 1  
 (66) INVENTORY RATING HS-16 28  
 (70) BRIDGE POSTING No Posting Required 5  
 (41) STRUCTURE OPEN, POSTED, OR CLOSED  
 DESCRIPTION Open, no restriction A

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 4  
 (68) DECK GEOMETRY 4  
 (69) UNDERCLEARANCES, VERT & HORIZ N  
 (71) WATERWAY ADEQUACY 7  
 (72) APPROACH ROADWAY ALIGNMENT 3  
 (36) TRAFFIC SAFETY FEATURES 0000  
 (113) SCOUR CRITICAL BRIDGES U

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 700 YEAR OF FUTURE ADT 2040

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE 0  
 (111) PIER PROTECTION CODE  
 (39) NAVIGATION VERTICAL CLEARANCE 0.0  
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR 0.0  
 (40) NAVIGATION HORIZONTAL CLEARANCE 0.0

INSPECTION

(90) INSPECTION DATE 03/22 (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

## Superstructure Build Details

Span Number 1

Span Length 40.6670

Skew 135.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
8	Plate Girder	Steel Open Girder/Beam	312 Feet	Legacy Red Lead Primer Systems with Various Topcoats	2144
2	Steel Rail	Metal Bridge Railing	82 Feet	Galvanized Protective System	82
1	Timber Deck	Timber Deck	753 Square Feet		
16	Other Bearing	Other Bearings	16 Each	Legacy Red Lead Primer Systems with Various Topcoats	16
1	Asphalt Wearing Surface	Wearing Surface	705 Square Feet		

Span Number 2

Span Length 41.3330

Skew 135.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
16	Other Bearing	Other Bearings	16 Each	Legacy Red Lead Primer Systems with Various Topcoats	16
1	Timber Deck	Timber Deck	765 Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	717 Square Feet		
2	Steel Rail	Metal Bridge Railing	84 Feet	Galvanized Protective System	84
8	Plate Girder	Steel Open Girder/Beam	312 Feet	Legacy Red Lead Primer Systems with Various Topcoats	2144

# Structure Element Scoring

Structure Number: 560149

Inspection Date 3/7/2022

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
31	0	Timber Deck	Deck	1518	1518	0	0	0
107	0	Steel Open Girder/Beam	Beam	624	0	0	0	624
515	107	Steel Protective Coating	Beam	4288	190	0	4098	0
210	0	Reinforced Concrete Pier Wall	Piles and Columns	25	0	3	22	0
215	0	Reinforced Concrete Abutment	Abutments	98	28	3	67	0
234	0	Reinforced Concrete Pier Cap	Caps	26	21	5	0	0
316	0	Other Bearings	Bearing Device	32	0	0	32	0
515	316	Steel Protective Coating	Bearing Device	32	0	0	2	30
330	0	Metal Bridge Railing	Bridge Rail	166	125	6	35	0
515	330	Steel Protective Coating	Bridge Rail	166	134	0	32	0
510	0	Wearing Surface	Wearing Surfaces	1422	309	0	1113	0

# Summary of Maintenance Needs

## Maintenance By Defect

Structure Number: 560149

Inspection Date: 03/07/2022

MMS Code	Element Name	Defect Name	Recommended Quantity
3314	Steel Open Girder/Beam	Corrosion	624 Feet
3348	Reinforced Concrete Pier Wall	Delamination/Spall	22 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	10 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	55 Feet
3350	Reinforced Concrete Abutment	Abrasion/Wear (PSC/RC)	4 Feet
3334	Other Bearings	Corrosion	32 Each
3322	Metal Bridge Railing	Corrosion	32 Square Feet
3322	Metal Bridge Railing	Connection	7 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	1 Square Feet
2816	Wearing Surface	Delamination/Spall (Wearing Surfaces)	12 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	1100 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	3962 Square Feet

## Element Structure Maintenance Quantities

Structure Number: 560149

Inspection Date 03/07/2022

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	69	98	0	67	3	28
Beam	3314	Maintenance Steel Superstructure Components	624	624	624	0	0	0
Beam	3342	Clean and Paint Steel	3898	4288	0	4098	0	190
Bearing Device	3334	Bridge Bearing	32	32	0	32	0	0
Bearing Device	3342	Clean and Paint Steel	32	32	30	2	0	0
Bridge Rail	3322	Maintenance of Steel Bridge Rail	39	166	0	35	6	125
Bridge Rail	3342	Clean and Paint Steel	32	166	0	32	0	134
Caps	3348	Maintenance of Concrete Substructure	0	26	0	0	5	21
Deck	3324	Maintenance of Timber Deck Components	0	1518	0	0	0	1518
Piles and Columns	3348	Maintenance of Concrete Substructure	22	25	0	22	3	0
Wearing Surfaces	2816	Asphalt Surface Repair	1113	1422	0	1113	0	309

# Priority Actions Request

Structure Number 560149

Span1

3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	39	Span 1 Beam 1: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE 0.16" BOTTOM FLANGE

3314	Beam 2	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 2: (PAR) AT END BENT 1, CORROSION ALONG RIGHT EDGE OF BOTTOM FLANGE WITH 2" LONG X 1/2" WIDE HOLE
2	Corrosion	38	Span 1 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.25" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.28" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE

3314	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	39	Span 1 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 10" HIGH DOWN TO 0.16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.23" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE

3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	39	Span 1 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 8" HIGH DOWN TO 0.216" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL BOTTOM FLANGE

3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	39	Span 1 Beam 5: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 2" HIGH DOWN TO 5/16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.37" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN 0.08" TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE

3314	Beam 6	Plate Girder	
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# Priority Actions Request

Structure Number 560149

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 6: (PAR) CORROSION ALONG BOTH FACES OF WEB UP TO 2" LONG X 6" HIGH DOWN TO KNIFE'S EDGE RESIDUAL WEB WITH 1/2" DIAMETER HOLE 5" FROM TOP FLANGE AT END OF BEAM AT PIER (NO PHOTO)
2	Corrosion	38	Span 1 Beam 6: (PAR) CORROSION ALONG LEFT FACE OF WEB AND EDGES OF BOTH FLANGES 4' FROM END BENT 1 DOWN TO 0.21" RESIDUAL WEB, 4' FROM END BENT 1 DOWN TO 0.36" RESIDUAL TOP FLANGE, AND NEAR MIDSPAN DOWN TO 0.17" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE

3314 Beam 7 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	39	Span 1 Beam 7: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" WIDE DOWN TO 0.45" RESIDUAL TOP FLANGE, AND UP TO 4' FROM END BENT 1 DOWN TO 0.18" RESIDUAL BOTTOM FLANGE

3314 Beam 8 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	39	Span 1 Beam 8: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES @ END BENT 1, 0.28" RESIDUAL TOP FLANGE, AND 0.42" RESIDUAL BOTTOM FLANGE

## Span2

3322 Left Bridge Rail Steel Rail

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	2	Span 2 Left Bridge Rail: (PAR) RAIL POSTS 5 AND 6, TWO (2) MISSING BOLTS AT

3322 Right Bridge Rail Steel Rail

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	Span 2 Right Bridge Rail: (PAR) MISSING BOLT AT CONNECTION OF RAIL POST TO BEAM 8, APPROXIMATELY 15' FROM ABUTMENT 2

3314 Beam 1 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 1: (PAR) Bay 1 Diaphragm, 5ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 4" LONG X 2" WIDE HOLES IN TOP FLANGE
2	Corrosion	38	Span 2 Beam 1: (PAR) CORROSION ALOG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, NEAR MIDSPAN DOWN TO 0.23 RESIDUAL IN TOP FLANGE AND DOWN TO 0.18" RESIDUAL IN BOTTOM FLANGE, 5' FROM END BENT 2 HAS 100%

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

# Priority Actions Request

Structure Number 560149

## SECTION LOSS FOR 1' IN BOTTOM LEFT FLANGE

3314	Beam 2	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	39	Span 2 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR END BENT 2 DOWN TO 0.24" RESIDUAL WEB, NEAR END BENT 2 DOWN TO 0.23" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.08" RESIDUAL BOTTOM FLANGE	
3314	Beam 3	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	39	Span 2 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR MIDSPAN DOWN TO 0.25" RESIDUAL WEB, NEAR END BENT 2 0.20" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.30" RESIDUAL BOTTOM FLANGE	
3314	Beam 4	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	39	Span 2 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 16" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE	
3314	Beam 5	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	1	Span 2 Beam 5: (PAR) 8' FROM PIER, 8"x 3" HOLE IN WEB AND RIGHT EDGE OF BOTTOM FLANGE WITH FIVE (5) HOLES UP TO 1" DIAMETER IN WEB (NO PHOTO)	
2	Corrosion	38	Span 2 Beam 5: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES 8' FROM BENT 1 AND @ BEAM END PATCH HAS 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE AREAS DOWN TO KNIFE'S EDGE & 100% SECTION LOSS IN BOTTOM FLANGE	
3314	Beam 6	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	39	Span 2 Beam 6: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH AREAS OF KNIFE'S EDGE & 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.25" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.17" RESIDUAL BOTTOM FLANGE	
3314	Beam 7	Plate Girder		

# Priority Actions Request

Structure Number 560149

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	38	Span 2 Beam 7: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.41" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.303" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE
2	Corrosion	1	Span 2 Beam 7: (PAR) Span 2 Bay 7 Diaphragm 10ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 3" LONG X 1" WIDE HOLES IN TOP FLANGE, TWO (2) 3" LONG X 1" WIDE HOLES IN BOTTOM FLANGE, AND 3" HIGH X 1 1/2" WIDE HOLE IN WEB

3314 Beam 8 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	39	Span 2 Beam 8: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 3/8" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.19" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE

## Bent 1

3350 Abutment Reinforced Concrete Abutment

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	3	End Bent 1 Abutment: (PAR) 38" X 7" X UP TO 4" DEEP SPALL IN FACE OF CAP BENEATH BEAMS 1 AND 2, WITH 3" X 1" LOSS OF BEARING BELOW BEAM 1

## Bent 2

3350 Abutment Reinforced Concrete Abutment

Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	2	End Bent 2 Abutment: (PAR) BELOW BEAM 1, 16"x 22"x UP TO 10" DEEP SPALL WITH 6" X 5" LOSS OF BEARING IN FACE OF CAP
2	Delamination/Spall	19	End Bent 2 Abutment: (PAR) FROM BEAM 2 TO BAY 3, 60"x 2"x 6" DEEP SPALL WITH 1" LOSS OF BEAM 3 BEARING. FROM RIGHT END TO BEAM 4, 14' LONG x 21" HIGH FAILED REPAIR WITH UP TO 2" DEEP UNDERMINING AT BEAM 5
2	Delamination/Spall	11	End Bent 2 Abutment: (PAR) NORTHEAST WINGWALL EXTENSION, 11'x 5" AREA OF DELAMINATION FOUR (4) SPALLS UP TO 3'x 3'x 5" DEEP WITH UP TO 1/8" MAP CRACKING WITH EFFLORESCENCE IN FACE

## Element Condition and Maintenance Data

Structure Number: 560149

Inspection Date: 03/07/2022

**Span 1** **Wearing Surface**  
**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	705	155	0	550	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	UP TO 1/4" TRANSVERSE AND LONGITUDINAL CRACKS IN VARIOUS LOCATIONS THROUGHOUT	3	550	550	Square Feet

General Comments

**Span 1** **Right Bridge Rail**  
**Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	41	32	1	8	0	Feet
515	Steel Protective Coating	41	33	0	8	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Corrosion	AREAS OF CORROSION IN RAIL POSTS	3	8	8	Square Feet
330	Connection	BRIDGE RAIL CONNECTION TO BEAM HAS CORROSION & SECTION LOSS UP TO 100%	2	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM IN RAIL POSTS	3	8	8	Square Feet

General Comments

**Span 1** **Left Bridge Rail**  
**Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	41	32	1	8	0	Feet
515	Steel Protective Coating	41	33	0	8	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Corrosion	AREAS OF CORROSION IN RAIL POSTS	3	8	8	Square Feet
330	Connection	BRIDGE RAIL CONNECTION TO BEAM HAS CORROSION & SECTION LOSS UP TO 100%	2	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM IN RAIL POSTS	3	8	8	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	39	0	0	0	39	Feet
515	Steel Protective Coating	268	0	0	268	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE 0.16" BOTTOM FLANGE	4	39	39	Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268	Square Feet

General Comments

Span 1 Bay 1 Diaphragm at Pier: CORROSION THROUGHOUT DIAPHRAGM WITH 26" LONG X 3" WIDE HOLE IN BOTTOM FLANGE

**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	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PAR) AT END BENT 1, CORROSION ALONG RIGHT EDGE OF BOTTOM FLANGE WITH 2" LONG X 1/2" WIDE HOLE	4	1	1 Feet
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.25" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.28" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE	4	38	38 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 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	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 10" HIGH DOWN TO 0.16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.23" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE	4	39	39 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 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	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 8" HIGH DOWN TO 0.216" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL BOTTOM FLANGE	4	39	39 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 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	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 2" HIGH DOWN TO 5/16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.37" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN 0.08" TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE	4	39	39 Feet	
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	68 Square Feet	
General Comments						

## Span 1

## Beam 6

## Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB UP TO 2" LONG X 6" HIGH DOWN TO KNIFE'S EDGE RESIDUAL WEB WITH 1/2" DIAMETER HOLE 5" FROM TOP FLANGE AT END OF BEAM AT PIER (NO PHOTO)	4	1	1 Feet	
107	Corrosion	(PAR) CORROSION ALONG LEFT FACE OF WEB AND EDGES OF BOTH FLANGES 4' FROM END BENT 1 DOWN TO 0.21" RESIDUAL WEB, 4' FROM END BENT 1 DOWN TO 0.36" RESIDUAL TOP FLANGE, AND NEAR MIDSPAN DOWN TO 0.17" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE	4	38	38 Feet	
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 Square Feet	
General Comments						

**Span 1** **Beam 7**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PAR) CORROSION ALONG EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" WIDE DOWN TO 0.45" RESIDUAL TOP FLANGE, AND UP TO 4' FROM END BENT 1 DOWN TO 0.18" RESIDUAL BOTTOM FLANGE	4	39	39 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 Square Feet

General Comments

**Span 1** **Beam 8**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PAR) CORROSION ALONG EDGES OF BOTH FLANGES @ END BENT 1, 0.28" RESIDUAL TOP FLANGE, AND 0.42" RESIDUAL BOTTOM FLANGE	4	39	39 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 Square Feet

General Comments

**Span 1** **Near Bearing**  
**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 THROUGHOUT BEAM 1 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 1 BEARING	4	1	1 Square Feet

General Comments

**Span 1** **Far Bearing**  
**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
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Structure Number: 560149

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316	Corrosion	CORROSION THROUGHOUT BEAM 1 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 1 BEARING	4	1	1	Square Feet

General Comments

**Span 1 Near Bearing**

**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 THROUGHOUT BEAM 2 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 2 BEARING	4	1	1 Square Feet

General Comments

**Span 1 Far Bearing**

**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 THROUGHOUT BEAM 2 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 2 BEARING	4	1	1 Square Feet

General Comments

**Span 1 Near Bearing**

**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 THROUGHOUT BEAM 3 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 3 BEARING	4	1	1 Square Feet

General Comments

## Span 1 Far Bearing

## 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 THROUGHOUT BEAM 3 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 3 BEARING	4	1	1	Square Feet

General Comments

## Span 1 Near Bearing

## 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 THROUGHOUT BEAM 4 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 4 BEARING	4	1	1	Square Feet

General Comments

## Span 1 Far Bearing

## 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 THROUGHOUT BEAM 4 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 4 BEARING	4	1	1	Square Feet

General Comments

## Span 1 Near Bearing

## 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 THROUGHOUT BEAM 5 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 5 BEARING	4	1	1	Square Feet

## General Comments

## Span 1 Far Bearing

## 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 THROUGHOUT BEAM 5 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 5 BEARING	4	1	1 Square Feet

## General Comments

## Span 1 Near Bearing

## Other Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	CORROSION THROUGHOUT BEAM 6 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 6 BEARING	3	1	1 Square Feet

## General Comments

## Span 1 Far Bearing

## 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 THROUGHOUT BEAM 6 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 6 BEARING	4	1	1 Square Feet

## General Comments

## Span 1 Near Bearing

## Other Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: 560149

Inspection Date: 03/07/2022

316	Corrosion	CORROSION THROUGHOUT BEAM 7 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 7 BEARING	3	1	1	Square Feet

General Comments

**Span 1 Far Bearing**

**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 THROUGHOUT BEAM 7 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 7 BEARING	4	1	1 Square Feet

General Comments

**Span 1 Near Bearing**

**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 THROUGHOUT BEAM 8 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 8 BEARING	4	1	1 Square Feet

General Comments

**Span 1 Far Bearing**

**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 THROUGHOUT BEAM 8 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 8 BEARING	4	1	1 Square Feet

General Comments

## Span 2 Wearing Surface

## Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	717	154	0	563	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	UP TO 1/4" TRANSVERSE AND LONGITUDINAL CRACKS IN VARIOUS LOCATIONS THROUGHOUT, CRACKS NEAR ABUTMENT 2 FILL FACE	3	550	550 Square Feet
510	Delamination/Spall (Wearing Surfaces)	12'x 8"x 4" DEEP SPALL & RAVELING OF ASPHALT @ END BENT 2	3	12	12 Square Feet
510	Patched Area/Pothole (Wearing Surface)	POTHOLE ALONG ABUTMENT 2 FILL FACE, APPROXIMATELY 5' FROM RIGHT EDGE OF ROADWAY	3	1	1 Square Feet

General Comments

## Span 2 Left Bridge Rail

## Steel Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	42	29	3	10	0 Feet
515	Steel Protective Coating	42	34	0	8	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Connection	(PAR) RAIL POSTS 5 AND 6, TWO (2) MISSING BOLTS AT CONNECTION TO BEAM 1	3	2	2 Feet
330	Corrosion	AREAS OF CORROSION IN RAIL POSTS	3	8	8 Square Feet
330	Connection	BRIDGE RAIL CONNECTION TO BEAM HAS CORROSION & SECTION LOSS UP TO 100%	2	1	1 Feet
330	Distortion	16" X 1" DEEP DISTORTION IN TOP OF RAIL, APPROXIMATELY 10' FROM PIER	2	2	Feet
515	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM IN RAIL POSTS	3	8	8 Square Feet

General Comments

## Span 2 Right Bridge Rail

## Steel Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	42	32	1	9	0 Feet
515	Steel Protective Coating	42	34	0	8	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Connection	(PAR) MISSING BOLT AT CONNECTION OF RAIL POST TO BEAM 8, APPROXIMATELY 15' FROM ABUTMENT 2	3	1	1 Feet
330	Corrosion	AREAS OF CORROSION IN RAIL POSTS	3	8	8 Square Feet
330	Connection	BRIDGE RAIL CONNECTION TO BEAM HAS CORROSION & SECTION LOSS UP TO 100%	2	1	1 Feet
515	Effectiveness (Steel Protective Coatings)	AREAS OF DETERIORATED PAINT SYSTEM IN RAIL POSTS	3	8	8 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	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PAR) Bay 1 Diaphragm, 5ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 4" LONG X 2" WIDE HOLES IN TOP FLANGE	4	1	1 Feet
107	Corrosion	(PAR) CORROSION ALOG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, NEAR MIDSPAN DOWN TO 0.23 RESIDUAL IN TOP FLANGE AND DOWN TO 0.18" RESIDUAL IN BOTTOM FLANGE, 5' FROM END BENT 2 HAS 100% SECTION LOSS FOR 1' IN BOTTOM LEFT FLANGE	4	38	38 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 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	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR END BENT 2 DOWN TO 0.24" RESIDUAL WEB, NEAR END BENT 2 DOWN TO 0.23" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.08" RESIDUAL BOTTOM FLANGE	4	39	39 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 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	39	0	0	0	39 Feet
515	Steel Protective Coating	268	0	0	268	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR MIDSPAN DOWN TO 0.25" RESIDUAL WEB, NEAR END BENT 2 0.20" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.30" RESIDUAL BOTTOM FLANGE	4	39	39 Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268 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	39	0	0	0	39	Feet
515	Steel Protective Coating	268	0	0	268	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 16" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE	4	39	39	Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268	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	39	0	0	0	39	Feet
515	Steel Protective Coating	268	0	0	268	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) 8' FROM PIER, 8" x 3" HOLE IN WEB AND RIGHT EDGE OF BOTTOM FLANGE WITH FIVE (5) HOLES UP TO 1" DIAMETER IN WEB (NO PHOTO)	4	1	1	Feet
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES 8' FROM BENT 1 AND @ BEAM END PATCH HAS 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE AREAS DOWN TO KNIFE'S EDGE & 100% SECTION LOSS IN BOTTOM FLANGE	4	38	38	Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268	Square Feet

General Comments

## Span 2

## Beam 6

## Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	39	0	0	0	39	Feet
515	Steel Protective Coating	268	190	0	78	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH AREAS OF KNIFE'S EDGE & 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.25" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.17" RESIDUAL BOTTOM FLANGE	4	39	39	Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	78	78	Square Feet

General Comments

**Span 2 Beam 7**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	39	0	0	0	39	Feet
515	Steel Protective Coating	268	0	0	268	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.41" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.303" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE	4	38	38	Feet
107	Corrosion	(PAR) Span 2 Bay 7 Diaphragm 10ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 3" LONG X 1" WIDE HOLES IN TOP FLANGE, TWO (2) 3" LONG X 1" WIDE HOLES IN BOTTOM FLANGE, AND 3" HIGH X 1 1/2" WIDE HOLE IN WEB	4	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268	Square Feet

General Comments

**Span 2 Beam 8**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	39	0	0	0	39	Feet
515	Steel Protective Coating	268	0	0	268	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 3/8" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.19" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE	4	39	39	Feet
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS, NO PROTECTION OF UNDERLYING METAL	3	268	268	Square Feet

General Comments

**Span 2 Near Bearing**  
**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 THROUGHOUT BEAM 1 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 1 BEARING	4	1	1	Square Feet

General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 1 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 1 BEARING	4	1	1 Square Feet

General Comments

## Span 2 Near Bearing

## 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 THROUGHOUT BEAM 2 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 2 BEARING	4	1	1 Square Feet

General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 2 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 2 BEARING	4	1	1 Square Feet

General Comments

## Span 2 Near Bearing

## 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 THROUGHOUT BEAM 3 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 3 BEARING	4	1	1 Square Feet

## General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 3 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 3 BEARING	4	1	1 Square Feet

## General Comments

## Span 2 Near Bearing

## 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 THROUGHOUT BEAM 4 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 4 BEARING	4	1	1 Square Feet

## General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 4 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 4 BEARING	4	1	1 Square Feet

## General Comments

## Span 2 Near Bearing

## 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
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Structure Number: 560149Inspection Date: 03/07/2022

316	Corrosion	CORROSION THROUGHOUT BEAM 5 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 5 BEARING	4	1	1	Square Feet

General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 5 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 5 BEARING	4	1	1 Square Feet

General Comments

## Span 2 Near Bearing

## 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 THROUGHOUT BEAM 6 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 6 BEARING	4	1	1 Square Feet

General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 6 BEARING	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 6 BEARING	4	1	1 Square Feet

General Comments

## Span 2 Near Bearing

## 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 THROUGHOUT BEAM 7 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 7 BEARING	4	1	1	Square Feet

General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 7 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 7 BEARING	4	1	1	Square Feet

General Comments

## Span 2 Near Bearing

## 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 THROUGHOUT BEAM 8 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 8 BEARING	4	1	1	Square Feet

General Comments

## Span 2 Far Bearing

## 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 THROUGHOUT BEAM 8 BEARING	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	DETERIORATED PAINT SYSTEM THROUGHOUT BEAM 8 BEARING	4	1	1	Square Feet

## General Comments

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	48	28	0	20	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Abrasion/Wear (PSC/RC)	48' OF UP TO 12" HIGH X 5" DEEP SCALING WITH EXPOSED AGGREGATE THROUGHOUT FACE OF BREASTWALL AT WATER SURFACE WITH UP TO 1/16IN VERTICAL AND HORIZONTAL CRACKS	3	4	4 Feet
215	Delamination/Spall	(PAR) 38" X 7" X UP TO 4" DEEP SPALL IN FACE OF CAP BENEATH BEAMS 1 AND 2, WITH 3" X 1" LOSS OF BEARING BELOW BEAM 1	3	3	3 Feet
215	Delamination/Spall	10" X 5" X 1" DEEP SPALL IN FACE OF BREASTWALL BENEATH BAY 1 NEAR BOTTOM OF CAP	3	1	1 Feet
215	Delamination/Spall	14" X 2" X 1" DEEP SPALL IN FACE OF CAP BENEATH BAY 5	3	2	2 Feet
215	Delamination/Spall	32" X 16" X UP TO 1" DEEP SPALL IN FACE OF CAP BENEATH BAY 7; NO LOSS OF BEARING NOTED	3	3	3 Feet
215	Delamination/Spall	36" X 4" X 4" SPALL IN TOP AND FACE OF NORTHWEST WINGWALL	3	3	3 Feet
215	Delamination/Spall	6" DIAMETER X 2" DEEP SPALL IN FACE OF BACKWALL IN BAY 4	3	1	1 Feet
215	Delamination/Spall	9" X 5" X 2" DEEP SPALL IN FACE OF BACKWALL IN BAY 6	3	1	1 Feet
215	Delamination/Spall	BELOW LEFT OVERHANG NEAR BOTTOM OF BREASTWALL, SPALL 16" X 8" X 1" DEEP	3	2	2 Feet

General Comments

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	26	21	5	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	VERTICAL AND HORIZONTAL HAIRLINE CRACKS IN BOTH FACES OF CAP IN VARIOUS LOCATIONS	2	5	Feet

General Comments

**Bent 1 Pier****Reinforced Concrete Pier Wall**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
210	Reinforced Concrete Pier Wall	25	0	3	22	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
210	Delamination/Spall	20" LONG X 12" HIGH X 3" DEEP SPALL IN SPAN 1 FACE OF PIER AT WATER SURFACE AT DOWNSTREAM END	3	2	2 Feet
210	Delamination/Spall	30" WIDE X 33" HIGH X 7" DEEP SPALL IN UPSTREAM FACE OF PIER AT WATER SURFACE	3	3	3 Feet
210	Delamination/Spall	48" LONG X 16" HIGH X 7" DEEP SPALL IN SPAN 1 FACE OF PIER AT WATER SURFACE AT UPSTREAM END	3	2	2 Feet
210	Delamination/Spall	SPAN 2 FACE AT WATER SURFACE EXTENDING FROM UPSTREAM END, 15' LONG X 12" HIGH X 3" DEEP SPALL	3	15	15 Feet

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210	Cracking (RC and Other)	5' OF VERTICAL AND HORIZONTAL HAIRLINE CRACKS IN BOTH FACES OF PIER IN VARIOUS LOCATIONS	2	3	Feet
210	Scour	25' OF UP TO 36" DEEP SCOUR ALONG BOTH FACES AND UPSTREAM END OF PIER, NO UNDERMINING NOTED	2		Feet

General Comments

## Bent 2

## Abutment

## Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	50	0	3	47	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	15' OF UP TO 1/8" MAP CRACKING WITH EFFLORESCENCE IN FACE OF BREASTWALL IN VARIOUS LOCATIONS	3	8	8 Feet
215	Cracking (RC and Other)	UP TO 24" LONG X 1/4" WIDE VERTICAL CRACKS IN FACE OF BACKWALL IN BAYS 5 AND 7	3		2 Feet
215	Delamination/Spall	(PAR) BELOW BEAM 1, 16" x 22" x UP TO 10" DEEP SPALL WITH 6" X 5" LOSS OF BEARING IN FACE OF CAP	3	2	2 Feet
215	Delamination/Spall	(PAR) FROM BEAM 2 TO BAY 3, 60" x 2" x 6" DEEP SPALL WITH 1" LOSS OF BEAM 3 BEARING. FROM RIGHT END TO BEAM 4, 14' LONG x 21" HIGH FAILED REPAIR WITH UP TO 2" DEEP UNDERMINING AT BEAM 5	3	19	19 Feet
215	Delamination/Spall	(PAR) NORTHEAST WINGWALL EXTENSION, 11' x 5" AREA OF DELAMINATION FOUR (4) SPALLS UP TO 3' x 3' x 5" DEEP WITH UP TO 1/8" MAP CRACKING WITH EFFLORESCENCE IN FACE	3	11	11 Feet
215	Delamination/Spall	36" LONG X 60" HIGH X UP TO 8" DEEP SPALL IN FACE OF BREASTWALL AT RIGHT END	3	2	2 Feet
215	Delamination/Spall	BAY 2 BACKWALL, SPALL 2FT X 10IN X 5IN DEEP	3	2	2 Feet
215	Delamination/Spall	TOP MIDDLE OF LEFT BREAST WALL, 3' x 2' x 4" DEEP SPALL	3	3	3 Feet
215	Patched Area	36" LONG X 22" HIGH REPAIR IN FACE OF CAP BENEATH BEAM 1 AND BAY 1	2	3	Feet
215	Patched Area	MOVED TO DIFFERENT PAR	1		Feet

General Comments

NEW CRUTCH BENT INSTALLED @ EB 2

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	753
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	39
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	39
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	39
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	39
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	39
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	39
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	39
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	39
Span 1	Left Bridge Rail	Steel Rail	Metal Bridge Railing	41
Span 1	Right Bridge Rail	Steel Rail	Metal Bridge Railing	41
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	705
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Timber Deck	Timber Deck	765
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	39
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	39
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	39
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	39
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	39
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	39
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	39
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	39
Span 2	Left Bridge Rail	Steel Rail	Metal Bridge Railing	42
Span 2	Right Bridge Rail	Steel Rail	Metal Bridge Railing	42
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	717
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 1	Pier	Reinforced Concrete Pier Wall	Reinforced Concrete Pier Wall	25
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	48
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	50

# General Inspection Notes

# National Bridge and NC Inspection Items

Structure Number: 560149

Inspection Date: 03/07/2022

## National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	4
Item 61: Channel and Channel Protection	0 - 9 , N	6
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	3

**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	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C			
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code		A		

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

## Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	10
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	Y

# National Bridge and NC SMU Inspection Item Details

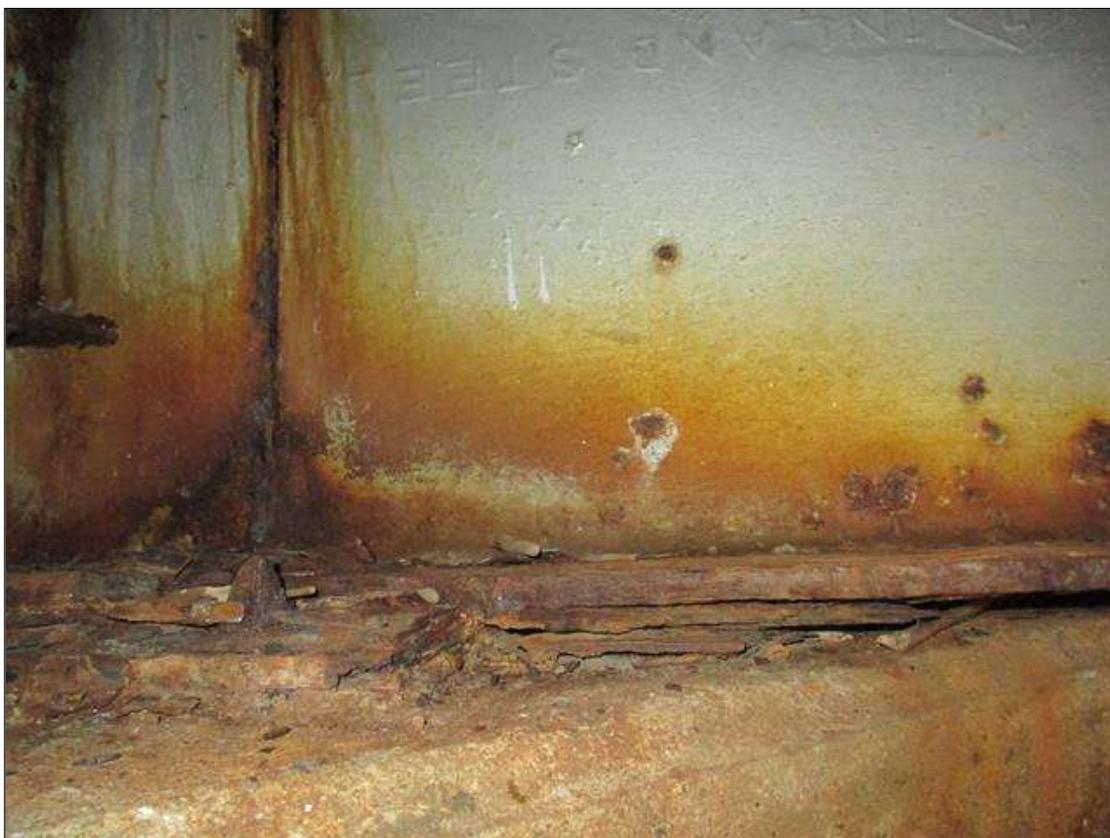
Structure Number: 560149

Inspection Date: 03/07/2022

Item	Superstructure - Item 59	Grade 4	Maint Code	Qty. 0
Details	ADVANCED CORROSION IN BEAMS WITH SECTION LOSS			
Item	Substructure - Item 60	Grade 4	Maint Code	Qty. 0
Details	CRACKS AND SPALLS SCATTERED THROUGHOUT WITH UNDERMINING OF BEARINGS			
Item	Channel and Channel Protection - Item 61	Grade 6	Maint Code	Qty. 0
Details	NORTHWEST CORNER, SHOULDER EROSION REPAIRED WITH ROCK			
Item	Approach Roadway Alignment - Item 72	Grade 3	Maint Code	Qty. 0
Details	HORIZONTAL CURVE AT WEST APPROACH			
Item	Scour	Grade G	Maint Code	Qty. 0
Details	SCOUR POA: MONITOR THE BRIDGE FOUNDATION DURING BIENIAL INSPECTION CYCLE FOR CASE 1 OR 2.			
	1) IF MUD LINE AT ANY END BENT OR INTERIOR BENT SCOURS MORE THAN 4 FEET FROM THE ESTABLISHED BASELINE CONTACT THE HYDRAULICS UNIT. ESTABLISH A BASELINE USING THE 2008 - 2009 INSPECTION SOUNDINGS.			
	2) IF FOOTINGS HAVE GREATER THAN 10% OF THE BEARING UNDERMINED, CONTACT THE HYDRAULICS UNIT			
Item	Portion of structure in > 3' of water (Y or N)	Grade Y	Maint Code	Qty. 0
Details	+/- 4 @ TIME OF INSPECTION			



TYPICAL CORROSION WITH SECTION LOSS BEGGINING ON ALL BEARINGS @ END BENT 1, END BENT 2, & BENT 1



TYPICAL CORROSION WITH SECTION LOSS BEGGINING ON ALL BEARINGS @ END BENT 1, END BENT 2, & BENT 1



Span 1 Beam 1: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE 0.16" BOTTOM FLANGE



Span 1 Beam 1: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE 0.16" BOTTOM FLANGE



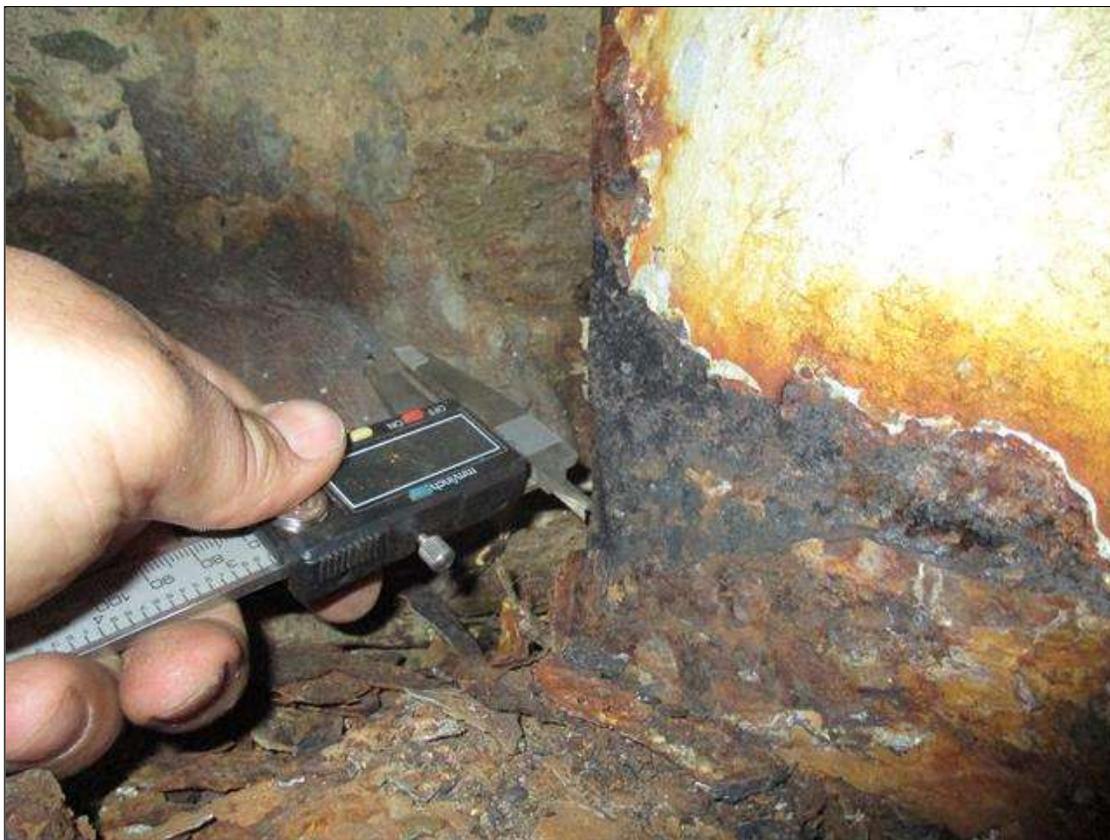
Span 1 Beam 2: (PAR) AT END BENT 1, CORROSION ALONG RIGHT EDGE OF BOTTOM FLANGE WITH 2" LONG X 1/2" WIDE HOLE



Span 1 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.25" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.28" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE



Span 1 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.25" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.28" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE



Span 1 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.25" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.28" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE



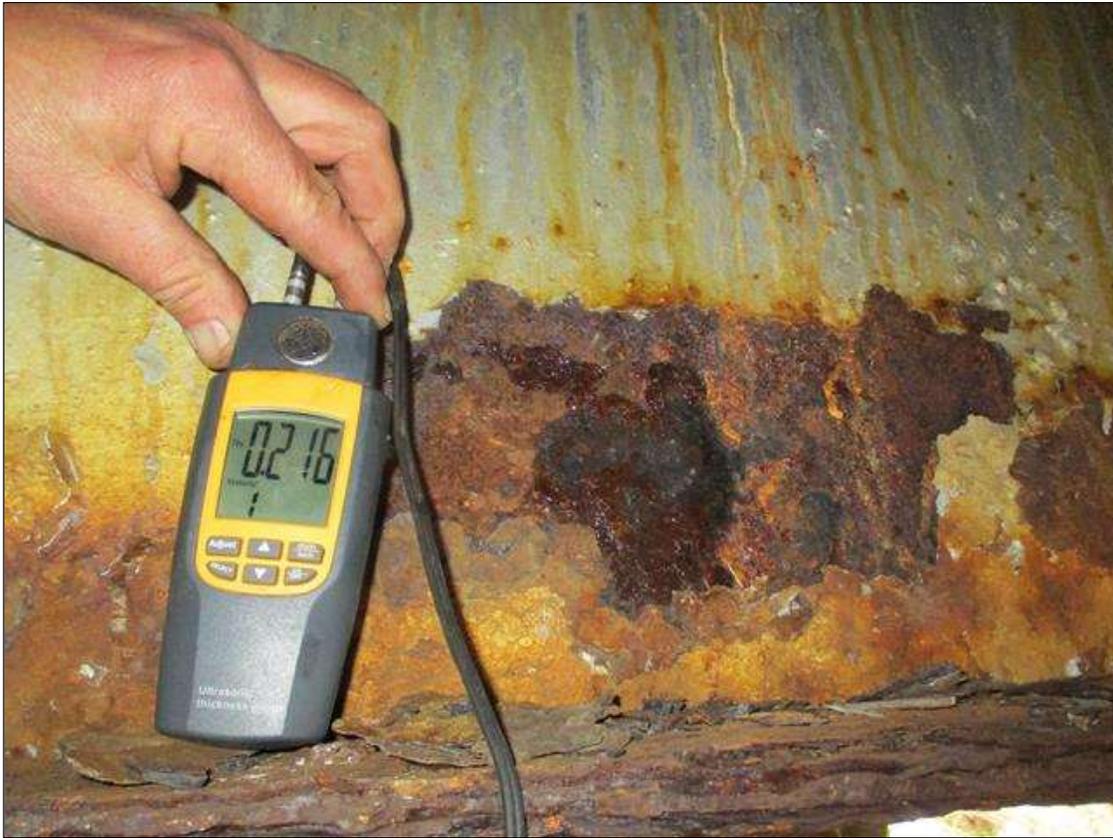
Span 1 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 10" HIGH DOWN TO 0.16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.23" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE



Span 1 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 10" HIGH DOWN TO 0.16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.23" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE



Span 1 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 10" HIGH DOWN TO 0.16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.23" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE



Span 1 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 8" HIGH DOWN TO 0.216" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL BOTTOM FLANGE



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Span 1 Beam 5: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 2" HIGH DOWN TO 5/16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.37" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN 0.08" TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE



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Span 1 Beam 6: (PAR) CORROSION ALONG LEFT FACE OF WEB AND EDGES OF BOTH FLANGES 4' FROM END BENT 1 DOWN TO 0.21" RESIDUAL WEB, 4' FROM END BENT 1 DOWN TO 0.36" RESIDUAL TOP FLANGE, AND NEAR MIDSPAN DOWN TO 0.17" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE



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Span 1 Beam 7: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" WIDE DOWN TO 0.45" RESIDUAL TOP FLANGE, AND UP TO 4' FROM END BENT 1 DOWN TO 0.18" RESIDUAL BOTTOM FLANGE



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Span 1 Beam 8: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES @ END BENT 1, 0.28" RESIDUAL TOP FLANGE, AND 0.42" RESIDUAL BOTTOM FLANGE



Span 1 Beam 8: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES @ END BENT 1, 0.28" RESIDUAL TOP FLANGE, AND 0.42" RESIDUAL BOTTOM FLANGE



Span 2 Left Bridge Rail: (PAR) RAIL POSTS 5 AND 6, TWO (2) MISSING BOLTS AT CONNECTION TO BEAM 1



Span 2 Right Bridge Rail: (PAR) MISSING BOLT AT CONNECTION OF RAIL POST TO BEAM 8, APPROXIMATELY 15' FROM ABUTMENT 2



Span 2 Beam 1: (PAR) Bay 1 Diaphragm, 5ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 4" LONG X 2" WIDE HOLES IN TOP FLANGE



Span 2 Beam 1: (PAR) CORROSION ALOG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, NEAR MIDSPAN DOWN TO 0.23 RESIDUAL IN TOP FLANGE AND DOWN TO 0.18" RESIDUAL IN BOTTOM FLANGE, 5' FROM END BENT 2 HAS 100% SECTION LOSS FOR 1' IN BOTTOM LEFT FLANGE



Span 2 Beam 1: (PAR) CORROSION ALOG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, NEAR MIDSPAN DOWN TO 0.23 RESIDUAL IN TOP FLANGE AND DOWN TO 0.18" RESIDUAL IN BOTTOM FLANGE, 5' FROM END BENT 2 HAS 100% SECTION LOSS FOR 1' IN BOTTOM LEFT FLANGE



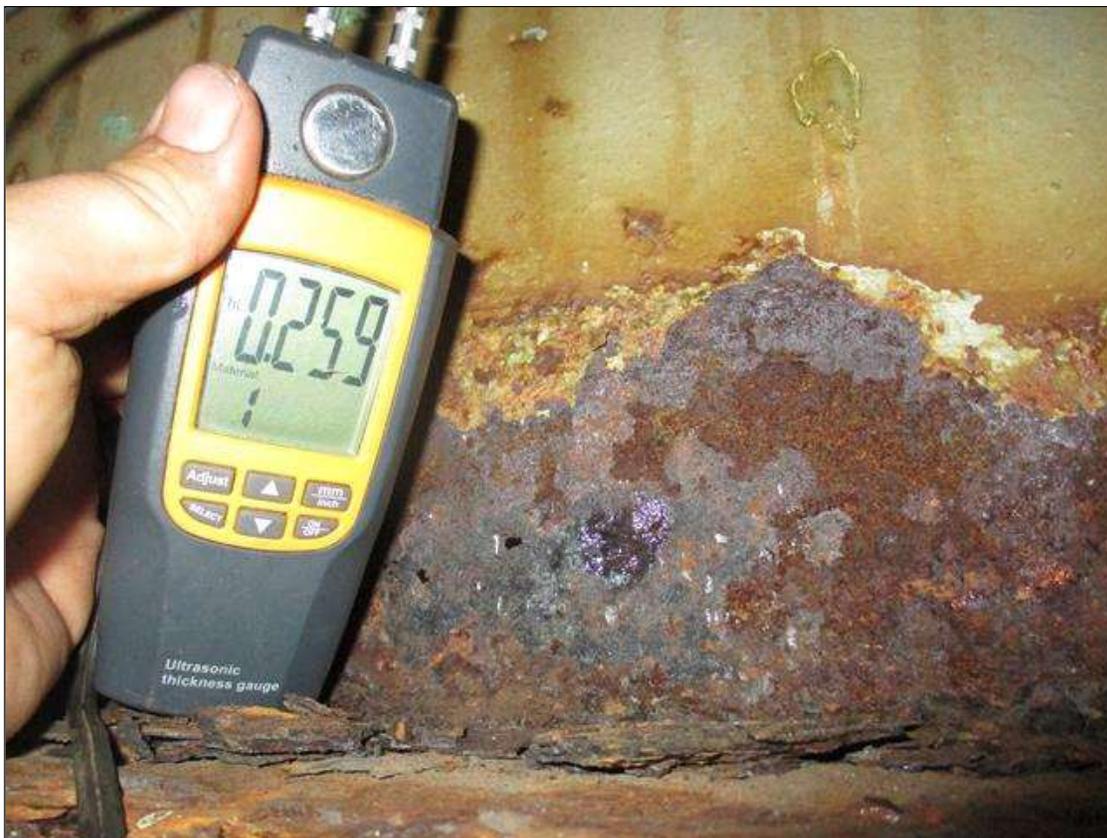
Span 2 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR END BENT 2 DOWN TO 0.24" RESIDUAL WEB, NEAR END BENT 2 DOWN TO 0.23" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.08" RESIDUAL BOTTOM FLANGE



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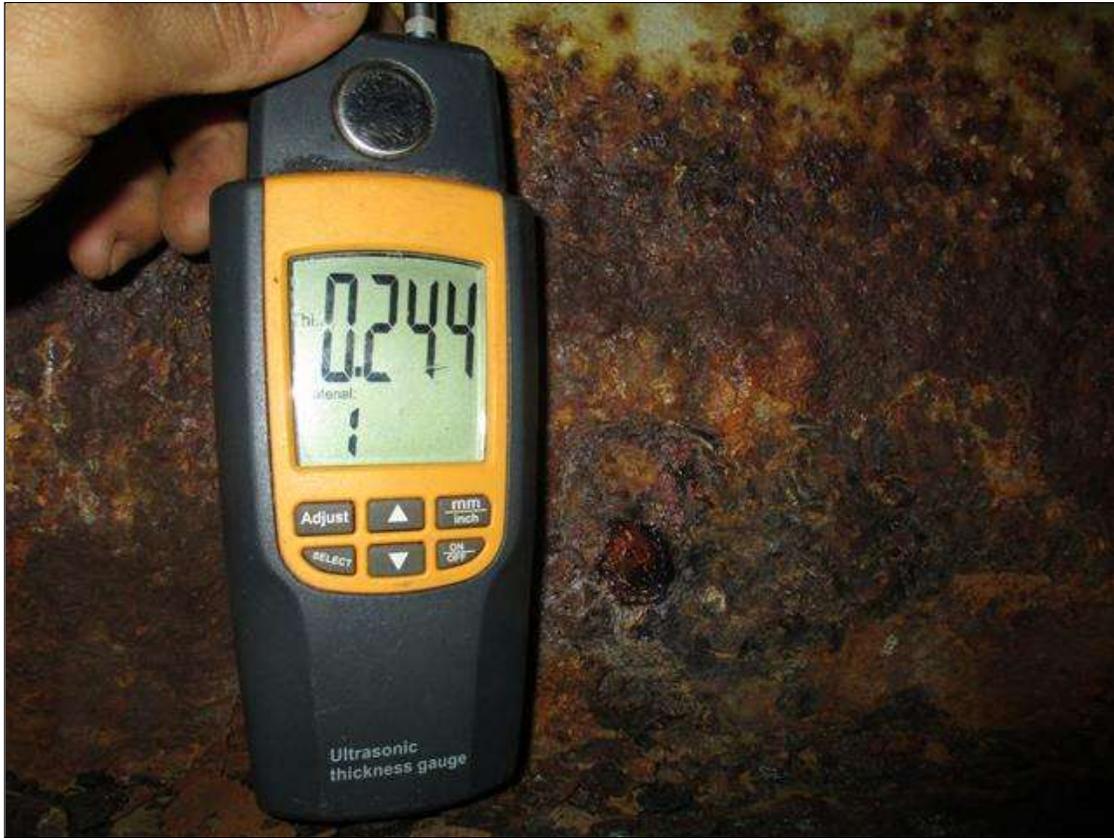
Span 2 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR MIDSPAN DOWN TO 0.25" RESIDUAL WEB, NEAR END BENT 2 0.20" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.30" RESIDUAL BOTTOM FLANGE



Span 2 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR MIDSPAN DOWN TO 0.25" RESIDUAL WEB, NEAR END BENT 2 0.20" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.30" RESIDUAL BOTTOM FLANGE



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Span 2 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 16" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE



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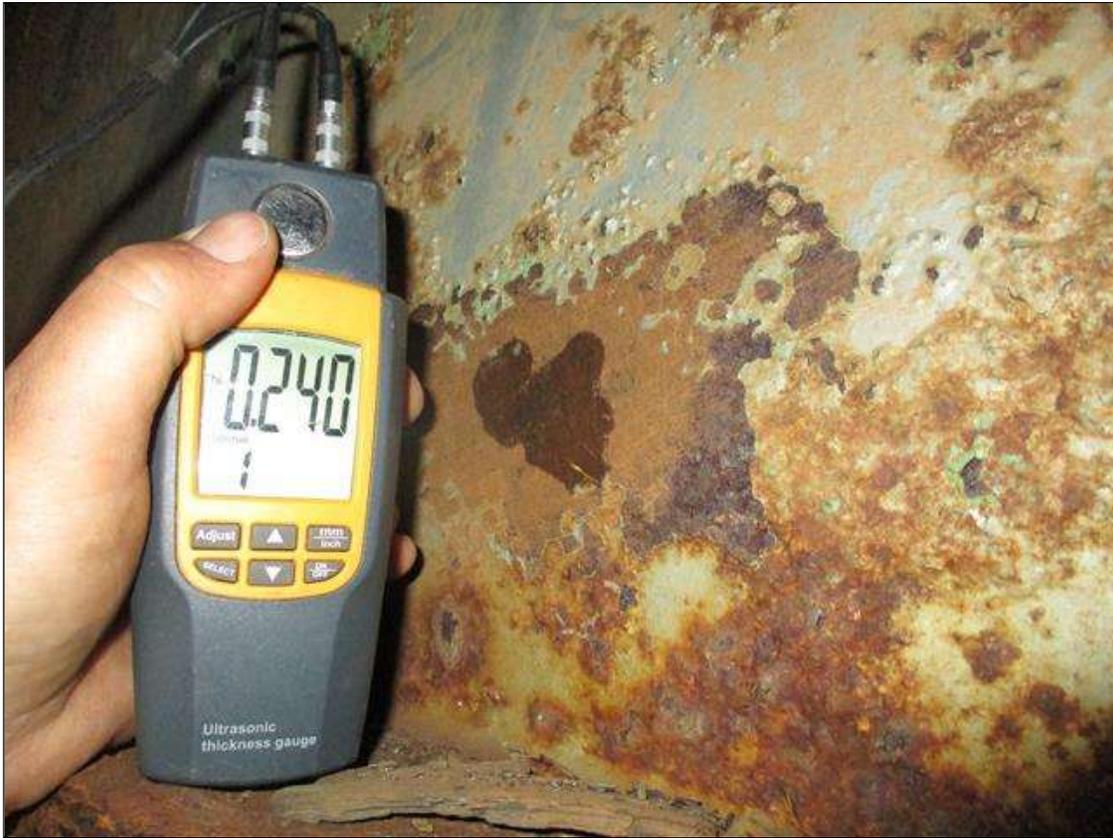
Span 2 Beam 5: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES 8' FROM BENT 1 AND @ BEAM END PATCH HAS 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE AREAS DOWN TO KNIFE'S EDGE & 100% SECTION LOSS IN BOTTOM FLANGE



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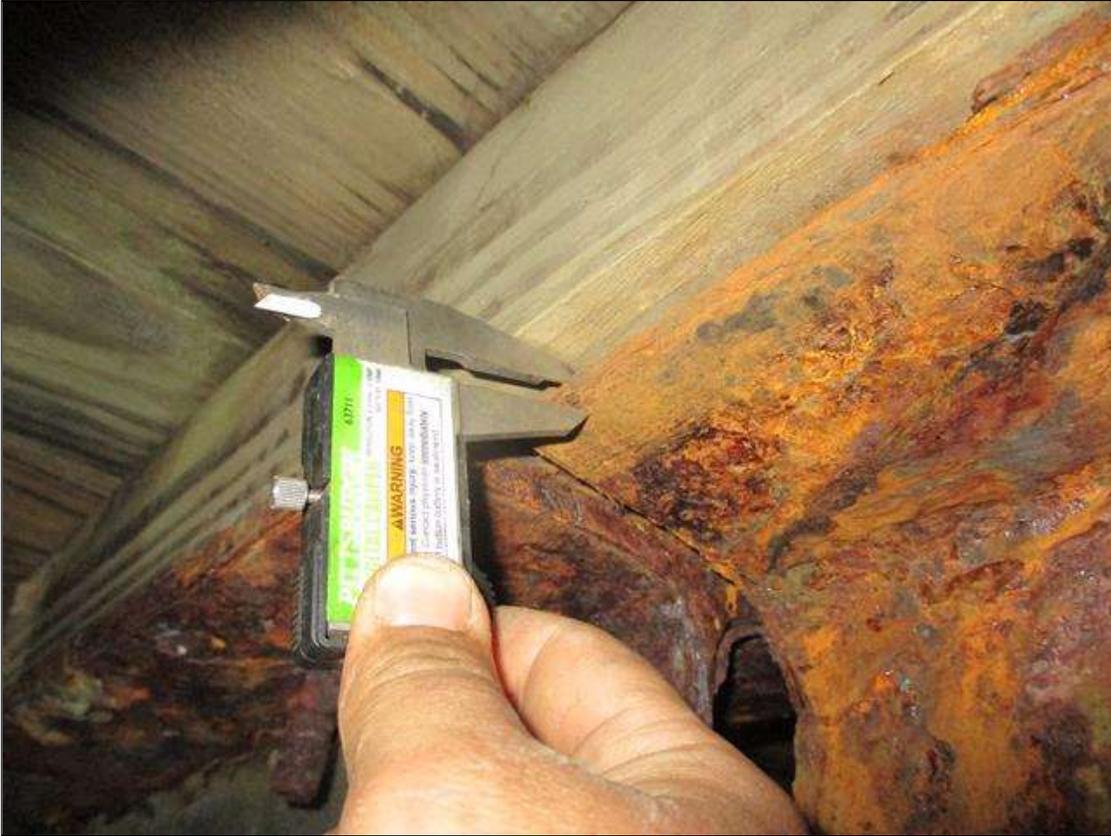
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Span 2 Beam 7: (PAR) Span 2 Bay 7 Diaphragm 10ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 3" LONG X 1" WIDE HOLES IN TOP FLANGE, TWO (2) 3" LONG X 1" WIDE HOLES IN BOTTOM FLANGE, AND 3" HIGH X 1 1/2" WIDE HOLE IN WEB



Span 2 Beam 7: (PAR) Span 2 Bay 7 Diaphragm 10ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 3" LONG X 1" WIDE HOLES IN TOP FLANGE, TWO (2) 3" LONG X 1" WIDE HOLES IN BOTTOM FLANGE, AND 3" HIGH X 1 1/2" WIDE HOLE IN WEB



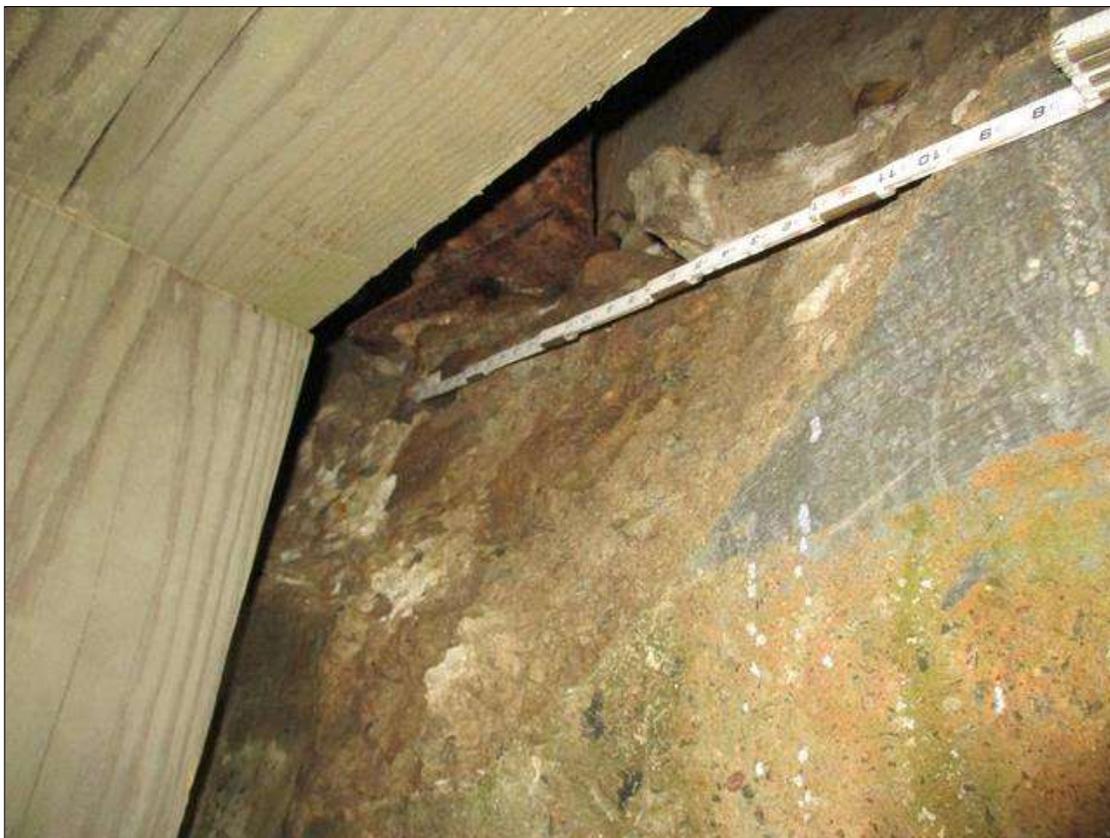
Span 2 Beam 8: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 3/8" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.19" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE



Span 2 Beam 8: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 3/8" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.19" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE



End Bent 1 Abutment: (PAR) 38" X 7" X UP TO 4" DEEP SPALL IN FACE OF CAP BENEATH BEAMS 1 AND 2, WITH 3" X 1" LOSS OF BEARING BELOW BEAM 1



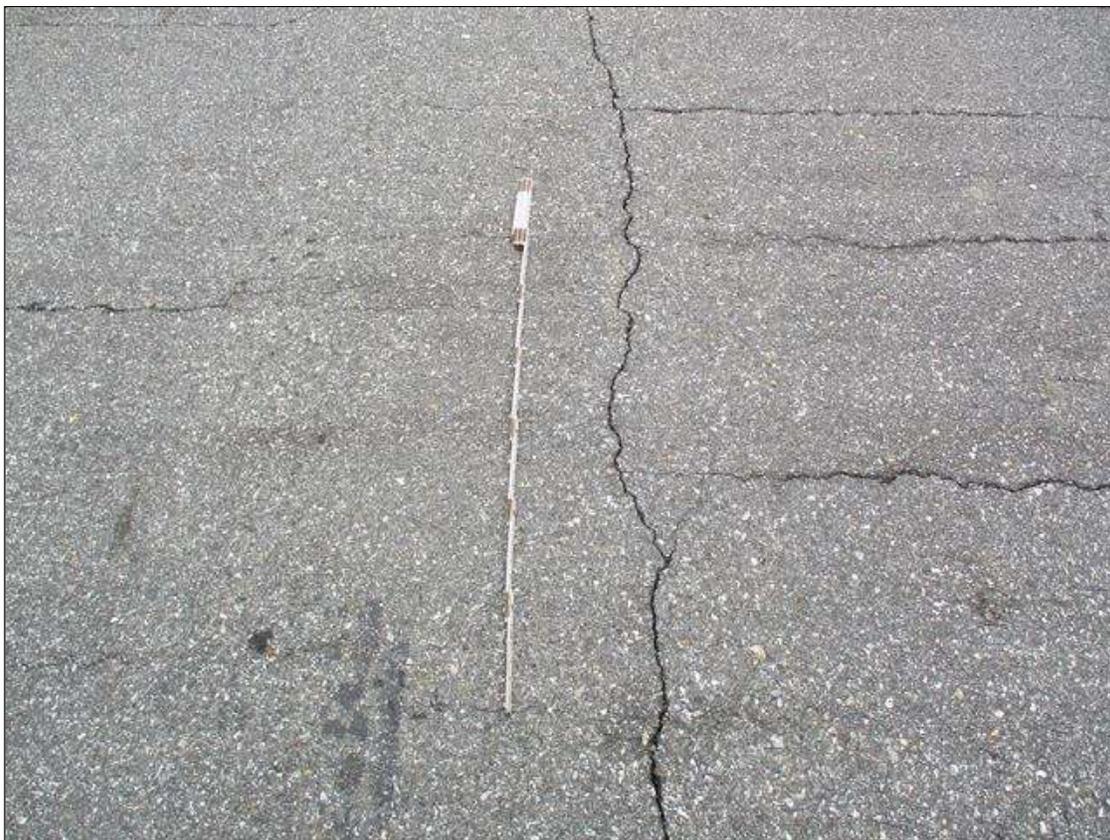
End Bent 2 Abutment: (PAR) FROM BEAM 2 TO BAY 3, 60"x 2"x 6" DEEP SPALL WITH 1" LOSS OF BEAM 3 BEARING. FROM RIGHT END TO BEAM 4, 14' LONG x 21" HIGH FAILED REPAIR WITH UP TO 2" DEEP UNDERMINING AT BEAM 5



End Bent 2 Abutment: (PAR) NORTHEAST WINGWALL EXTENSION, 11'x 5" AREA OF DELAMINATION FOUR (4) SPALLS UP TO 3'x 3'x 5" DEEP WITH UP TO 1/8" MAP CRACKING WITH EFFLORESCENCE IN FACE



End Bent 2 Abutment: (PAR) BELOW BEAM 1, 16"x 22"x UP TO 10" DEEP SPALL WITH 6" X 5" LOSS OF BEARING IN FACE OF CAP



Span 1 Wearing Surface: UP TO 1/4" TRANSVERSE AND LONGITUDINAL CRACKS IN VARIOUS LOCATIONS THROUGHOUT



Span 1 Wearing Surface: UP TO 1/4" TRANSVERSE AND LONGITUDINAL CRACKS IN VARIOUS LOCATIONS THROUGHOUT



Span 1 Right Bridge Rail: AREAS OF CORROSION IN RAIL POSTS



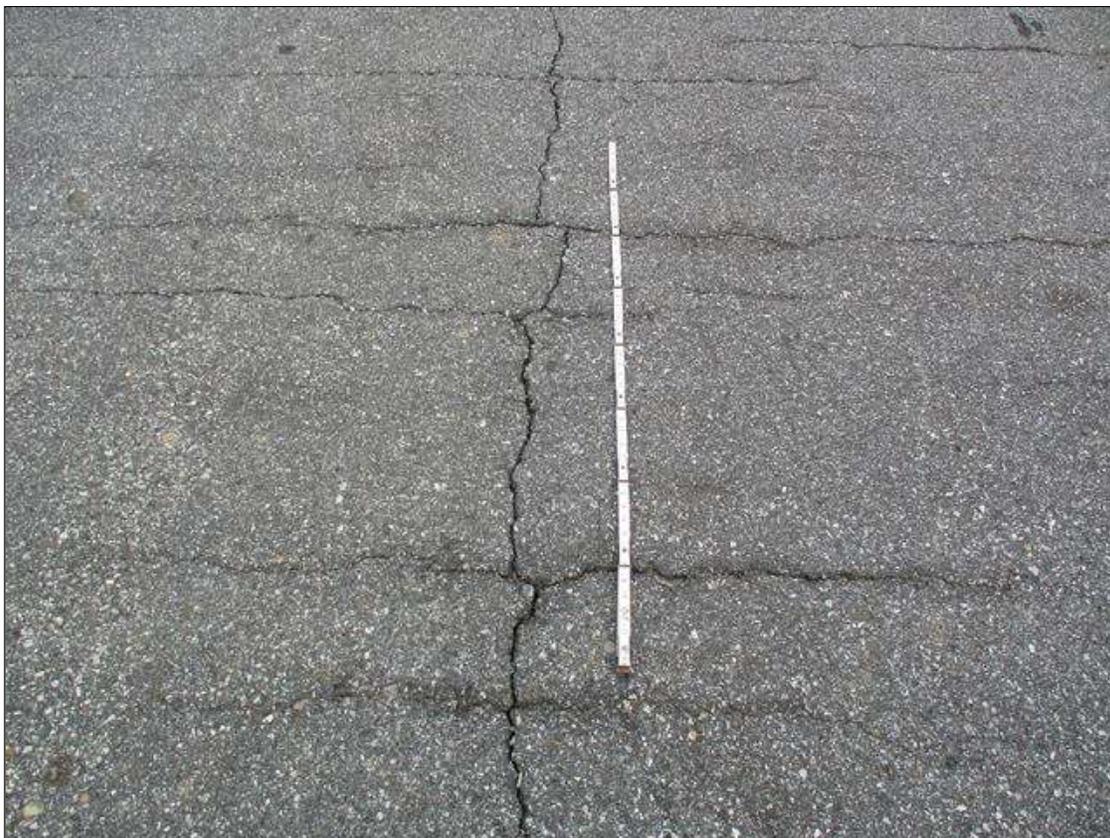
Span 1 Left Bridge Rail: AREAS OF CORROSION IN RAIL POSTS



BRIDGE RAIL CONNECTION TO BEAM HAS CORROSION & SECTION LOSS UP TO 100% (TYPICAL ALL BRIDGE RAIL CONNECTIONS)



Span 2 Wearing Surface: UP TO 1/4" TRANSVERSE AND LONGITUDINAL CRACKS IN VARIOUS LOCATIONS THROUGHOUT, CRACKS NEAR ABUTMENT 2 FILL FACE



Span 2 Wearing Surface: POTHOLE ALONG ABUTMENT 2 FILL FACE, APPROXIMATELY 5' FROM RIGHT EDGE OF ROADWAY



Span 2 Wearing Surface: 12'x 8"x 4" DEEP SPALL & RAVELING OF ASPHALT @ END BENT 2



Span 2 Left Bridge Rail: 16" X 1" DEEP DISTORTION IN TOP OF RAIL, APPROXIMATELY 10' FROM PIER



Span 2 Left Bridge Rail - Protective System: AREAS OF DETERIORATED PAINT SYSTEM IN RAIL POSTS



Span 2 Right Bridge Rail - Protective System: AREAS OF DETERIORATED PAINT SYSTEM IN RAIL POSTS



End Bent 1 Abutment: 48' OF UP TO 12" HIGH X 5" DEEP SCALING WITH EXPOSED AGGREGATE THROUGHOUT FACE OF BREASTWALL AT WATER SURFACE WITH UP TO 1/16IN VERTICAL AND HORIZONTAL CRACKS



End Bent 1 Abutment: 32" X 16" X UP TO 1" DEEP SPALL IN FACE OF CAP BENEATH BAY 7; NO LOSS OF BEARING NOTED



End Bent 1 Abutment: 9" X 5" X 2" DEEP SPALL IN FACE OF BACKWALL IN BAY 6



End Bent 1 Abutment: 14" X 2" X 1" DEEP SPALL IN FACE OF CAP BENEATH BAY 5



End Bent 1 Abutment: 6" DIAMETER X 2" DEEP SPALL IN FACE OF BACKWALL IN BAY 4



End Bent 1 Abutment: 10" X 5" X 1" DEEP SPALL IN FACE OF BREASTWALL BENEATH BAY 1 NEAR BOTTOM OF CAP



End Bent 1 Abutment: BELOW LEFT OVERHANG NEAR BOTTOM OF BREASTWALL, SPALL 16" X 8" X 1" DEEP



Bent 1 Cap: VERTICAL AND HORIZONTAL HAIRLINE CRACKS IN BOTH FACES OF CAP IN VARIOUS LOCATIONS



Bent 1 Pier: 48" LONG X 16" HIGH X 7" DEEP SPALL IN SPAN 1 FACE OF PIER AT WATER SURFACE AT UPSTREAM END



Bent 1 Pier: 48" LONG X 16" HIGH X 7" DEEP SPALL IN SPAN 1 FACE OF PIER AT WATER SURFACE AT UPSTREAM END



Bent 1 Pier: 30" WIDE X 33" HIGH X 7" DEEP SPALL IN UPSTREAM FACE OF PIER AT WATER SURFACE



Bent 1 Pier: 25' OF UP TO 36" DEEP SCOUR ALONG BOTH FACES AND UPSTREAM END OF PIER, NO UNDERMINING NOTED



Bent 1 Pier: SPAN 2 FACE AT WATER SURFACE EXTENDING FROM UPSTREAM END, 15' LONG X 12" HIGH X 3" DEEP SPALL



Bent 1 Pier: 20" LONG X 12" HIGH X 3" DEEP SPALL IN SPAN 1 FACE OF PIER AT WATER SURFACE AT DOWNSTREAM END



End Bent 2 Abutment: UP TO 24" LONG X 1/4" WIDE VERTICAL CRACKS IN FACE OF BACKWALL IN BAYS 5 AND



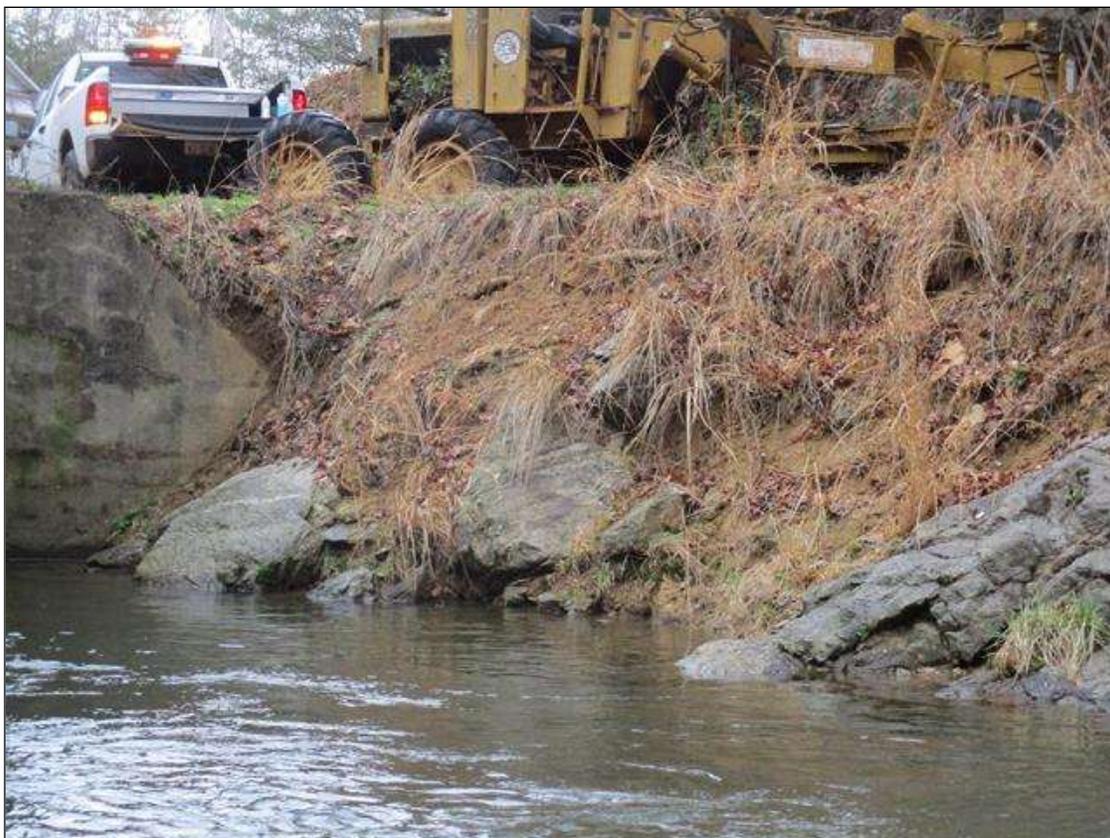
End Bent 2 Abutment: 36" LONG X 60" HIGH X UP TO 8" DEEP SPALL IN FACE OF BREASTWALL AT RIGHT END



End Bent 2 Abutment: 15' OF UP TO 1/8" MAP CRACKING WITH EFFLORESCENCE IN FACE OF BREASTWALL IN VARIOUS LOCATIONS



End Bent 2 Abutment: BAY 2 BACKWALL, SPALL 2FT X 10IN X 5IN DEEP



REPAIRS TO NORTHWEST SHOULDER EROSION



End Bent 2 Abutment: TOP MIDDLE OF LEFT BREAST WALL, 3'x 2'x 4" DEEP SPALL

# Stream Bed Soundings

(Profile diagram on following sheet)

County MADISON

Structure Number: 560149

Inspection Date 03/08/2022

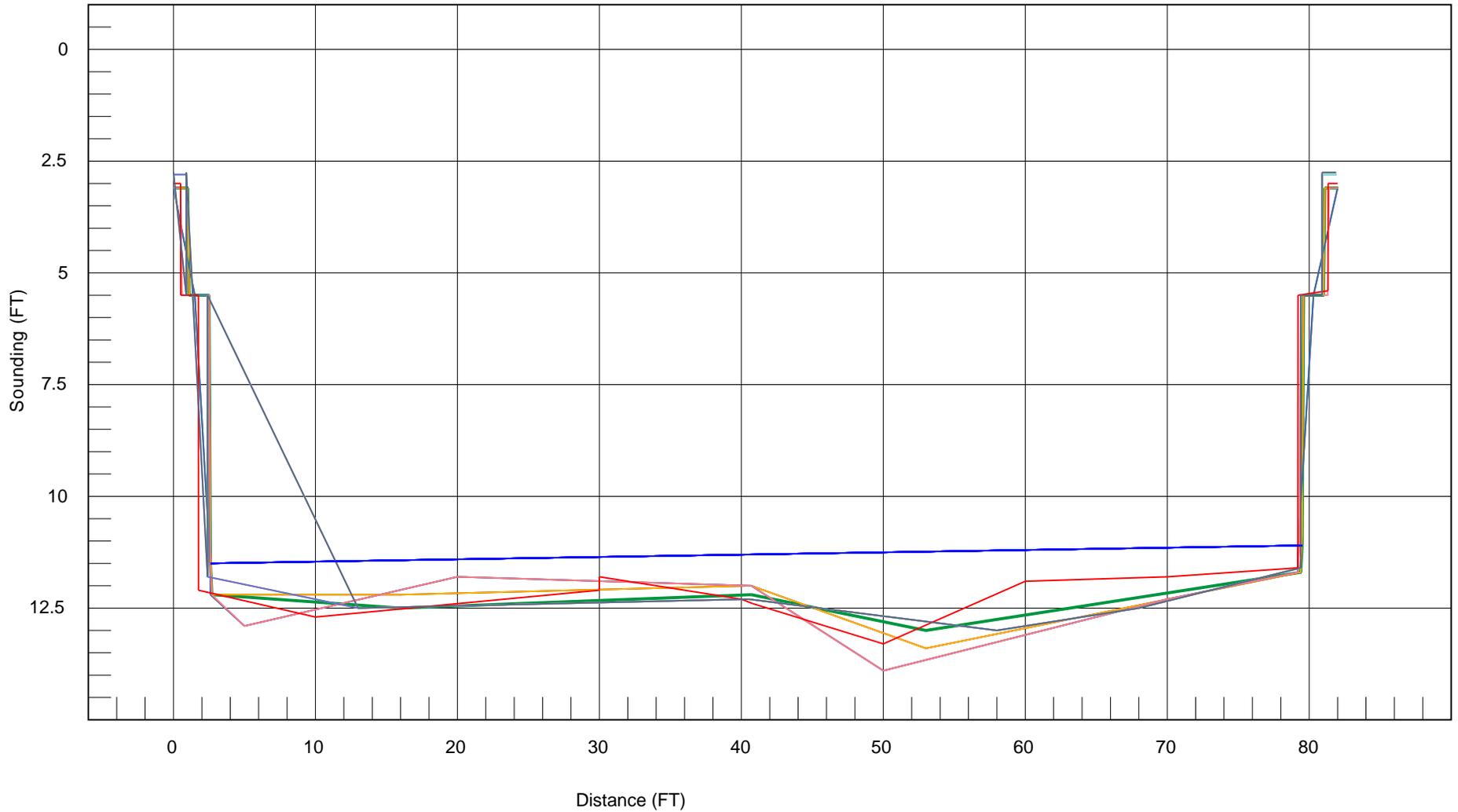
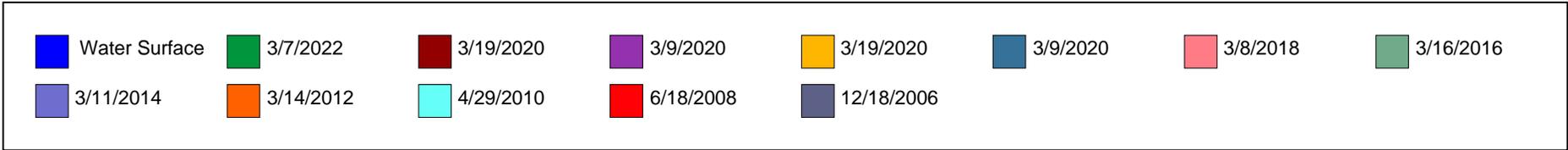
Sounding recorded from: Top of Bridge Rail

Highwater Mark Distance 10.5      Location of Highwater Mark TOP OF BANK

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	3.100	0.000	FILL FACE
1.000	3.100	0.000	TOP OF WING
1.100	5.500	0.000	TOP OF CAP
2.500	5.500	0.000	TOP OF CAP
2.600	11.500	0.000	WSWE
2.700	12.200	12.000	FACE OF CAP
16.000	12.500	0.000	STREAMBED
40.700	12.200	13.700	BE1
53.000	13.000	0.000	STREAMBED
79.400	11.700	13.300	FACE OF CAP
79.500	11.100	0.000	WSWE
79.600	5.500	0.000	TOP OF CAP
81.000	5.500	0.000	TOP OF CAP
81.100	3.100	0.000	TOP OF WING
82.000	3.100	0.000	FILL FACE

### STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

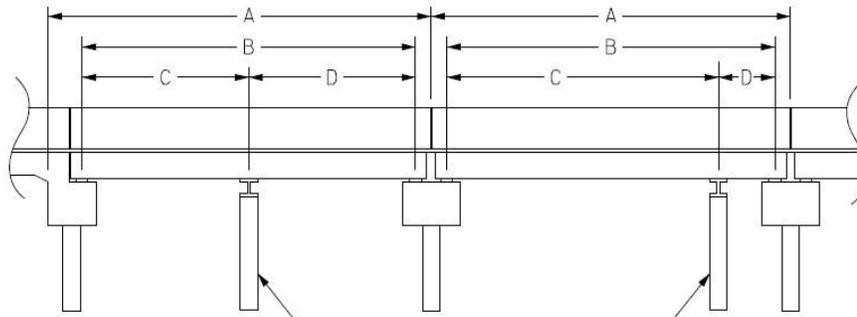


# Structure Data Worksheet

## Span Profile

County: MADISON

Structure Number: 560149



A: SPAN LENGTH  
 B: BEARING TO BEARING  
 C: DISTANCE FROM NEAR BEARING  
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	40.667	39.000			
2	41.333	39.667			



ONE LANE BRIDGE SIGN (WEST END)



WEST APPROACH



TYPICAL DELINEATOR



TYPICAL BRIDGE RAIL



LOOKING SOUTH DOWNSTREAM



LOOKING NORTH UPSTREAM



EAST APPROACH



TYPICAL ASPHALT WEARING SURFACE



ONE LANE BRIDGE SIGN (EAST END)



END BENT 1



END BENT 2



TYPICAL UNDERSIDE (SPAN 1 SHOWN)



TYPICAL DIAPHRAGM



SOUTH ELEVATION



TYPICAL WINGWALL



NORTH ELEVATION



BENT 1



BRIDGE RAIL TO BEAM CONNECTION



EQUIPMENT/LADDER



NEW CRUTCH BENT @ END BENT 2

# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	39	Span 1 Beam 1: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE 0.16" BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 2: (PAR) AT END BENT 1, CORROSION ALONG RIGHT EDGE OF BOTTOM FLANGE WITH 2" LONG X 1/2" WIDE HOLE	
 3314	Maintain Steel Superstructure Components	LF	38	Span 1 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.25" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.28" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	39	Span 1 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 10" HIGH DOWN TO 0.16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.23" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	39	Span 1 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 8" HIGH DOWN TO 0.216" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL BOTTOM FLANGE	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
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 3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 6: (PAR) CORROSION ALONG BOTH FACES OF WEB UP TO 2" LONG X 6" HIGH DOWN TO KNIFE'S EDGE RESIDUAL WEB WITH 1/2" DIAMETER HOLE 5" FROM TOP FLANGE AT END OF BEAM AT PIER (NO PHOTO)	
 3314	Maintain Steel Superstructure Components	LF	38	Span 1 Beam 6: (PAR) CORROSION ALONG LEFT FACE OF WEB AND EDGES OF BOTH FLANGES 4' FROM END BENT 1 DOWN TO 0.21" RESIDUAL WEB, 4' FROM END BENT 1 DOWN TO 0.36" RESIDUAL TOP FLANGE, AND NEAR MIDSPAN DOWN TO 0.17" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	39	Span 1 Beam 7: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" WIDE DOWN TO 0.45" RESIDUAL TOP FLANGE, AND UP TO 4' FROM END BENT 1 DOWN TO 0.18" RESIDUAL BOTTOM FLANGE	
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 3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 1: (PAR) Bay 1 Diaphragm, 5ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 4" LONG X 2" WIDE HOLES IN TOP FLANGE	

**Key**

 Priority Maintenance Item

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# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	38	Span 2 Beam 1: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, NEAR MIDSPAN DOWN TO 0.23 RESIDUAL IN TOP FLANGE AND DOWN TO 0.18" RESIDUAL IN BOTTOM FLANGE, 5' FROM END BENT 2 HAS 100% SECTION LOSS FOR 1' IN BOTTOM LEFT FLANGE	
 3314	Maintain Steel Superstructure Components	LF	39	Span 2 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR END BENT 2 DOWN TO 0.24" RESIDUAL WEB, NEAR END BENT 2 DOWN TO 0.23" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.08" RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	39	Span 2 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR MIDSPAN DOWN TO 0.25" RESIDUAL WEB, NEAR END BENT 2 0.20" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.30" RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	39	Span 2 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 16" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 5: (PAR) 8' FROM PIER, 8"x 3" HOLE IN WEB AND RIGHT EDGE OF BOTTOM FLANGE WITH FIVE (5) HOLES UP TO 1" DIAMETER IN WEB (NO PHOTO)	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	38	Span 2 Beam 5: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES 8' FROM BENT 1 AND @ BEAM END PATCH HAS 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE AREAS DOWN TO KNIFE'S EDGE & 100% SECTION LOSS IN BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	39	Span 2 Beam 6: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH AREAS OF KNIFE'S EDGE & 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.25" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.17" RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	38	Span 2 Beam 7: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.41" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.303" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE	
 3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 7: (PAR) Span 2 Bay 7 Diaphragm 10ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 3" LONG X 1" WIDE HOLES IN TOP FLANGE, TWO (2) 3" LONG X 1" WIDE HOLES IN BOTTOM FLANGE, AND 3" HIGH X 1 1/2" WIDE HOLE IN WEB	
 3314	Maintain Steel Superstructure Components	LF	39	Span 2 Beam 8: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 3/8" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.19" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3322	Maint to Steel Handrail	LF	2	Span 2 Left Bridge Rail: (PAR) RAIL POSTS 5 AND 6, TWO (2) MISSING BOLTS AT CONNECTION TO BEAM 1	
 3322	Maint to Steel Handrail	LF	1	Span 2 Right Bridge Rail: (PAR) MISSING BOLT AT CONNECTION OF RAIL POST TO BEAM 8, APPROXIMATELY 15' FROM ABUTMENT 2	
 3350	Maint R C Wings and Walls	SF	3	End Bent 1 Abutment: (PAR) 38" X 7" X UP TO 4" DEEP SPALL IN FACE OF CAP BENEATH BEAMS 1 AND 2, WITH 3" X 1" LOSS OF BEARING BELOW BEAM 1	
 3350	Maint R C Wings and Walls	SF	19	End Bent 2 Abutment: (PAR) FROM BEAM 2 TO BAY 3, 60"x 2"x 6" DEEP SPALL WITH 1" LOSS OF BEAM 3 BEARING. FROM RIGHT END TO BEAM 4, 14' LONG x 21" HIGH FAILED REPAIR WITH UP TO 2" DEEP UNDERMING AT BEAM 5	
 3350	Maint R C Wings and Walls	SF	11	End Bent 2 Abutment: (PAR) NORTHEAST WINGWALL EXTENSION, 11'x 5" AREA OF DELAMINATION FOUR (4) SPALLS UP TO 3'x 3'x 5" DEEP WITH UP TO 1/8" MAP CRACKING WITH EFFLORESCENCE IN FACE	
 3350	Maint R C Wings and Walls	SF	2	End Bent 2 Abutment: (PAR) BELOW BEAM 1, 16"x 22"x UP TO 10" DEEP SPALL WITH 6" X 5" LOSS OF BEARING IN FACE OF CAP	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 1: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO KNIFE'S EDGE 0.16" BOTTOM FLANGE		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 2: (PAR) AT END BENT 1, CORROSION ALONG RIGHT EDGE OF BOTTOM FLANGE WITH 2" LONG X 1/2" WIDE HOLE		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	38      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 1 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.25" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.28" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE</p>		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 1 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 10" HIGH DOWN TO 0.16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.23" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE</p>		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 8" HIGH DOWN TO 0.216" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.02" RESIDUAL BOTTOM FLANGE		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 5: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 2" HIGH DOWN TO 5/16" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.37" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN 0.08" TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 6: (PAR) CORROSION ALONG BOTH FACES OF WEB UP TO 2" LONG X 6" HIGH DOWN TO KNIFE'S EDGE RESIDUAL WEB WITH 1/2" DIAMETER HOLE 5" FROM TOP FLANGE AT END OF BEAM AT PIER (NO PHOTO)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	38      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 6: (PAR) CORROSION ALONG LEFT FACE OF WEB AND EDGES OF BOTH FLANGES 4' FROM END BENT 1 DOWN TO 0.21" RESIDUAL WEB, 4' FROM END BENT 1 DOWN TO 0.36" RESIDUAL TOP FLANGE, AND NEAR MIDSPAN DOWN TO 0.17" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 7: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" WIDE DOWN TO 0.45" RESIDUAL TOP FLANGE, AND UP TO 4' FROM END BENT 1 DOWN TO 0.18" RESIDUAL BOTTOM FLANGE		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 1 Beam 8: (PAR) CORROSION ALONG EDGES OF BOTH FLANGES @ END BENT 1, 0.28" RESIDUAL TOP FLANGE, AND 0.42" RESIDUAL BOTTOM FLANGE		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 2 Beam 1: (PAR) Bay 1 Diaphragm, 5ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 4" LONG X 2" WIDE HOLES IN TOP FLANGE		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	38      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 2 Beam 1: (PAR) CORROSION ALOG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 1/4" RESIDUAL WEB, NEAR MIDSPAN DOWN TO 0.23 RESIDUAL IN TOP FLANGE AND DOWN TO 0.18" RESIDUAL IN BOTTOM FLANGE, 5' FROM END BENT 2 HAS 100% SECTION LOSS FOR 1' IN BOTTOM LEFT FLANGE		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 2: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR END BENT 2 DOWN TO 0.24" RESIDUAL WEB, NEAR END BENT 2 DOWN TO 0.23" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.08" RESIDUAL BOTTOM FLANGE</p>		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 3: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES NEAR MIDSPAN DOWN TO 0.25" RESIDUAL WEB, NEAR END BENT 2 0.20" RESIDUAL TOP FLANGE, AND NEAR END BENT 2 DOWN TO 0.30" RESIDUAL BOTTOM FLANGE</p>		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 4: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 16" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.18" RESIDUAL BOTTOM FLANGE</p>		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 5: (PAR) 8' FROM PIER, 8"x 3" HOLE IN WEB AND RIGHT EDGE OF BOTTOM FLANGE WITH FIVE (5) HOLES UP TO 1" DIAMETER IN WEB (NO PHOTO)</p>		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	38      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 5: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES 8' FROM BENT 1 AND @ BEAM END PATCH HAS 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.20" &amp; KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE AREAS DOWN TO KNIFE'S EDGE &amp; 100% SECTION LOSS IN BOTTOM FLANGE</p>		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 6: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH AREAS OF KNIFE'S EDGE &amp; 100% SECTION LOSS IN WEB, FULL LENGTH X 4" WIDE DOWN TO 0.25" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.17" RESIDUAL BOTTOM FLANGE</p>		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	38      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 7: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 0.24" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.41" RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.303" WITH AREAS DOWN TO KNIFE'S EDGE RESIDUAL BOTTOM FLANGE</p>		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
<p>Span 2 Beam 7: (PAR) Span 2 Bay 7 Diaphragm 10ft from Pier: CORROSION THROUGHOUT DIAPHRAGM WITH TWO (2) 3" LONG X 1" WIDE HOLES IN TOP FLANGE, TWO (2) 3" LONG X 1" WIDE HOLES IN BOTTOM FLANGE, AND 3" HIGH X 1 1/2" WIDE HOLE IN WEB</p>		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	39      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 2 Beam 8: (PAR) CORROSION ALONG BOTH FACES OF WEB AND EDGES OF BOTH FLANGES UP TO FULL LENGTH X 4" HIGH DOWN TO 3/8" RESIDUAL WEB, FULL LENGTH X 4" WIDE DOWN TO 0.19" & KNIFE'S EDGE RESIDUAL TOP FLANGE, AND FULL LENGTH X 4" WIDE DOWN TO 0.22" RESIDUAL BOTTOM FLANGE		

MMS Code	MMS Description	Quantity
3322	Maint to Steel Handrail	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 2 Left Bridge Rail: (PAR) RAIL POSTS 5 AND 6, TWO (2) MISSING BOLTS AT CONNECTION TO BEAM 1		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3322	Maint to Steel Handrail	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
Span 2 Right Bridge Rail: (PAR) MISSING BOLT AT CONNECTION OF RAIL POST TO BEAM 8, APPROXIMATELY 15' FROM ABUTMENT 2		

MMS Code	MMS Description	Quantity
3350	Maint R C Wings and Walls	3      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
End Bent 1 Abutment: (PAR) 38" X 7" X UP TO 4" DEEP SPALL IN FACE OF CAP BENEATH BEAMS 1 AND 2, WITH 3" X 1" LOSS OF BEARING BELOW BEAM 1		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3350	Maint R C Wings and Walls	19      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
End Bent 2 Abutment: (PAR) FROM BEAM 2 TO BAY 3, 60"x 2"x 6" DEEP SPALL WITH 1" LOSS OF BEAM 3 BEARING. FROM RIGHT END TO BEAM 4, 14' LONG x 21" HIGH FAILED REPAIR WITH UP TO 2" DEEP UNDERMINING AT BEAM 5		

MMS Code	MMS Description	Quantity
3350	Maint R C Wings and Walls	11      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
End Bent 2 Abutment: (PAR) NORTHEAST WINGWALL EXTENSION, 11'x 5" AREA OF DELAMINATION FOUR (4) SPALLS UP TO 3'x 3'x 5" DEEP WITH UP TO 1/8" MAP CRACKING WITH EFFLORESCENCE IN FACE		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 560149

County MADISON

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

MMS Code	MMS Description	Quantity
3350	Maint R C Wings and Walls	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
03/08/2022	RICK POOLE	
Details		
End Bent 2 Abutment: (PAR) BELOW BEAM 1, 16"x 22"x UP TO 10" DEEP SPALL WITH 6" X 5" LOSS OF BEARING IN FACE OF CAP		

# Bridge Inspection Field Sketch

SR 1318



Roadway	16ft Wide	1 Paved Lanes	Looking East
Left Shoulder	6ft Wide	0.5ft Paved	5.5ft Unpaved
Right Shoulder	2ft Wide	1ft Paved	1ft Unpaved
Left Guardrail			
Right Guardrail			

Measurements recorded approximately 25ft from Abutment 1 fill face along centerline of roadway.

**VERIFIED BY RDP 3/7/22**

<b>Title</b> APPROACH ROADWAY		<b>Description</b> LOOKING EAST	
<b>Bridge No:</b> 560149	<b>Drawn By:</b> SJK	<b>Date:</b> 6/18/2008	<b>File Name:</b> S0102000171

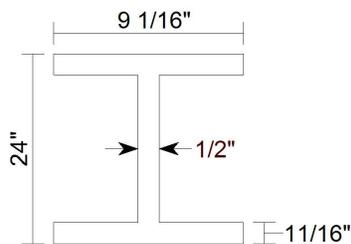
# Bridge Inspection Field Sketch

Deck Width/Out to Out	18.5ft	Between Rails	17.333ft		
Clear Roadway	17.333ft	Wearing Surface	0.292ft		
Median Width		Median Height			
Curb Height		Left	Right		
Sidewalk Width		Left	Right		
Clear Roadway (Rail to Median)		Left	Right		
Guardrail Width		Left	0.25ft	Right	0.25ft
Top of Rail to Deck/Wearing Surface		Left	2.708ft	Right	2.708ft
Bridge Rail		Left	Type 23	Right	Type 23



Measurements for Spans	1 and 2		
Deck Thickness	0.313	Left Overhang	1.25
Top of Rail to Bottom of Beam	5.313	Right Overhang	1.25

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.286ft (+/-)	
2	Steel I Beam	2.286ft (+/-)	
3	Steel I Beam	2.286ft (+/-)	
4	Steel I Beam	2.286ft (+/-)	
5	Steel I Beam	2.286ft (+/-)	
6	Steel I Beam	2.286ft (+/-)	
7	Steel I Beam	2.286ft (+/-)	
8	Steel I Beam		



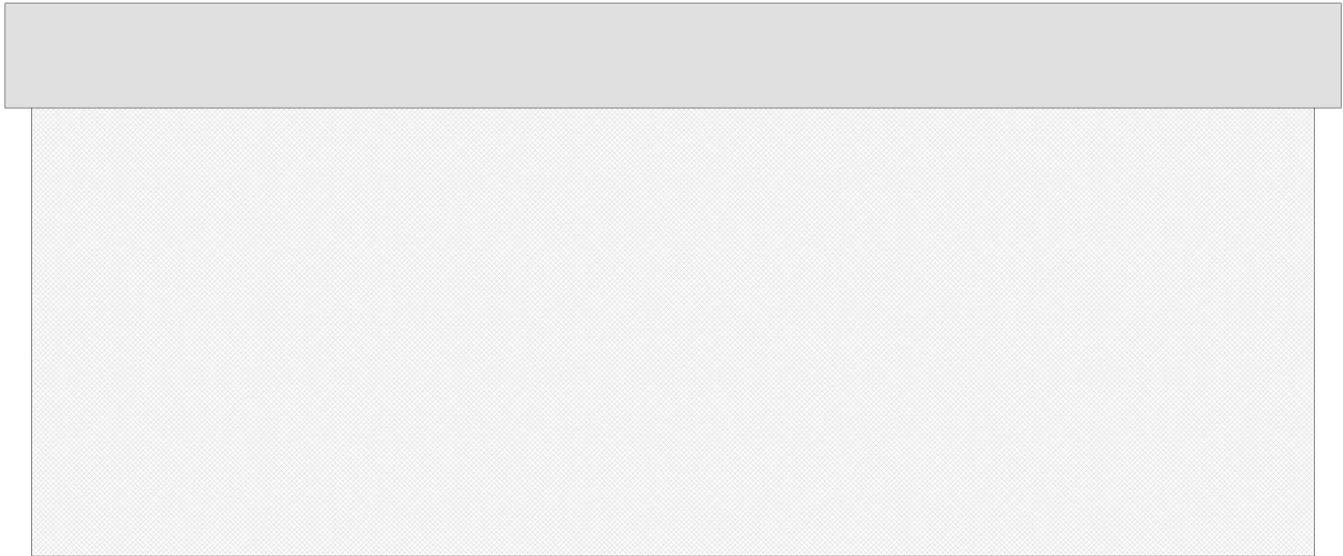
**BEAM DETAILS**

**VERIFIED BY RDP 3/7/22**

<b>Title</b> TYPICAL SECTION	<b>Description</b> 8 LINES OF STEEL I-BEAMS
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Bridge No: 560149	Drawn By: Roy W. Shook	Date: 6/18/2008	File Name: S0102000172
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# Bridge Inspection Field Sketch



<b>Cap Information</b>			<b>Material</b> Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.5 ft.	2.0 ft.	2.0 ft.	12.75 ft.	12.75 ft.	0.917 ft.	1.667 ft.				
<b>Subcap Information</b>			<b>Material</b>							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
<b>Sill Information</b>			<b>Material</b>							
Length	Width	Height								
<b>Pile</b>	<b>Material</b>	<b>Spacing</b>	<b>Width/Dia.</b>	<b>Height</b>	<b>Length</b>	<b>Orientation</b>	<b>Driven?</b>	<b>Replacement?</b>	<b>Removed?</b>	<b>Collar?</b>
1	Concrete		24.5 ft.	1.5 ft.		Vertical	No	No	No	No
<b>Pier Wall</b>										

**VERIFIED BY RDP 3/7/22**

<b>Title</b> PIER WALL	<b>Description</b> PIER WALL
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<b>Bridge No:</b> 560149	<b>Drawn By:</b> JOE C HUNTSINGER	<b>Date:</b> 3/11/2014	<b>File Name:</b> S0106001751
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# Bridge Inspection Field Sketch

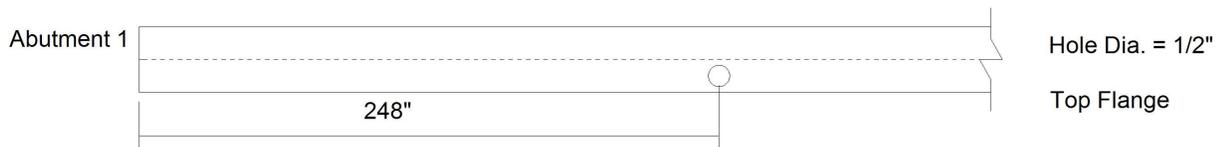
Span 1 Beam 4:



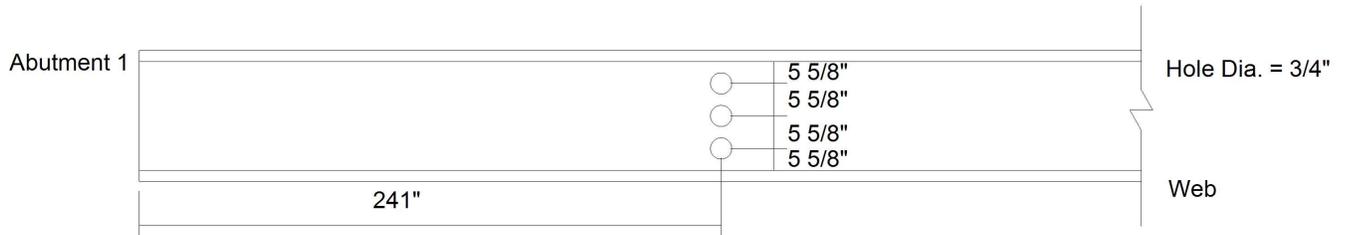
Span 1 Beam 5:



Span 1 Beam 6:



Span 1 Beam 7:



Span 1 Beam 8:

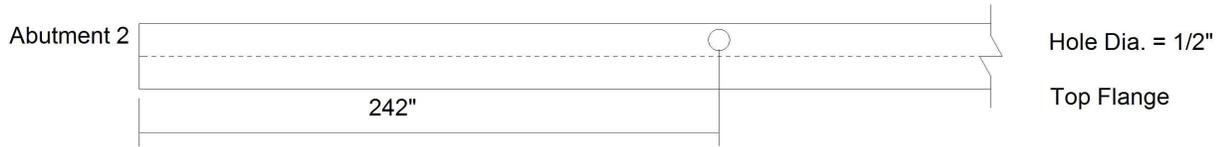


VERIFIED BY RDP 3/7/22

<b>Title</b> BEAM HOLES		<b>Description</b> SPAN 1 BEAM HOLES	
Bridge No: 560149	Drawn By: LJZ	Date: 3/8/2018	File Name: S0238000283

# Bridge Inspection Field Sketch

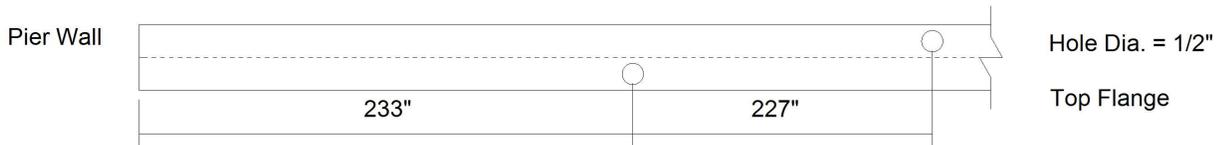
Span 2 Beam 1:



Span 2 Beams 2 and 3:



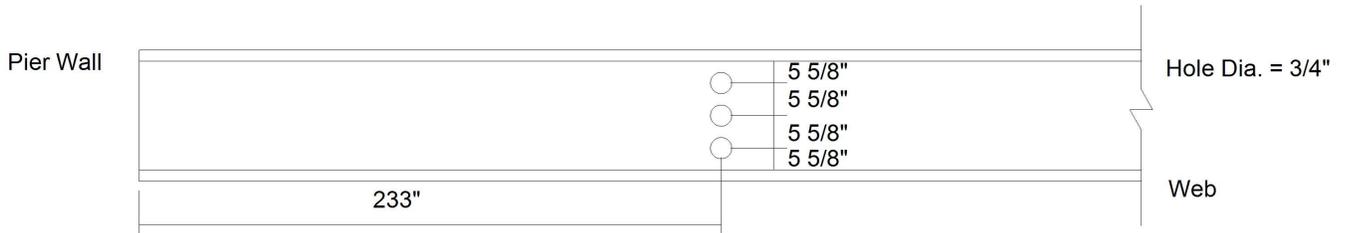
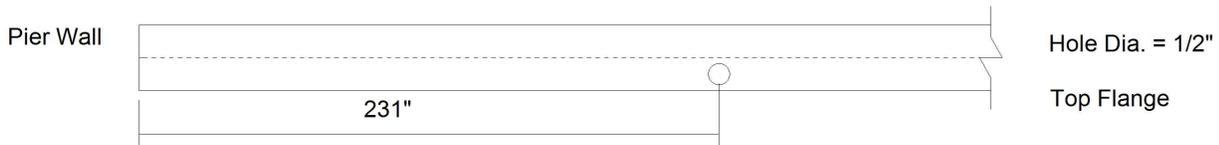
Span 2 Beam 4:



Span 2 Beam 6:



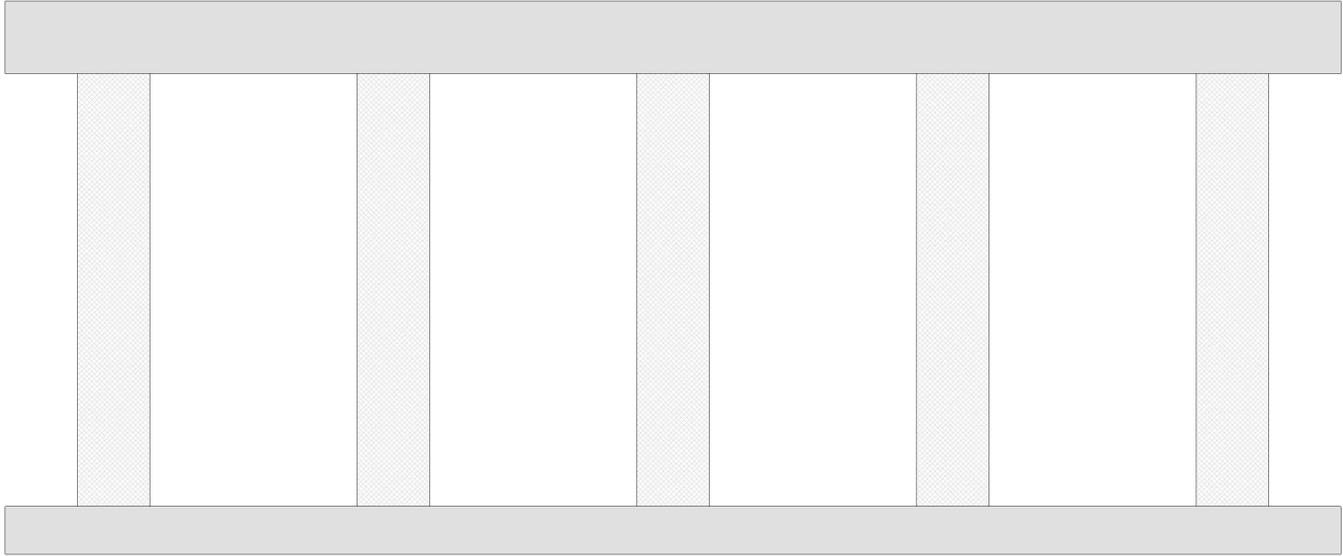
Span 2 Beam 7:



**VERIFIED BY RPD 3/7/22**

<b>Title</b> BEAM HOLES 1		<b>Description</b> SPAN 2 BEAM HOLES	
Bridge No: 560149	Drawn By: LJZ	Date: 3/8/2018	File Name: S0238000284

# Bridge Inspection Field Sketch



<b>Cap Information</b>			<b>Material</b> Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
18.500 ft.	1.000 ft.	1.000 ft.	1.500 ft.	1.500 ft.	1.500 ft.	1.500 ft.				
<b>Subcap Information</b>			<b>Material</b>							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
<b>Sill Information</b>			<b>Material</b> Timber							
Length	Width	Height	MEASURED BY RDP 3/7/22							
20.500 ft.	1.000 ft.	1.000 ft.								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	3.875 ft.	1 ft.	4.1 ft.	1 ft.		No	No	No	No
2	Timber	3.875 ft.	1 ft.	4.1 ft.	1 ft.		No	No	No	No
3	Timber	3.875 ft.	1 ft.	4.1 ft.	1 ft.		No	No	No	No
4	Timber	3.875 ft.	1 ft.	4.1 ft.	1 ft.		No	No	No	No
5	Timber		1 ft.	4.1 ft.	1 ft.		No	No	No	No
<b>Bent/Abutment #:</b> 2			<b>Similar Bents:</b>							

<b>Title</b> END BENT 2 CRUTCH BENT				<b>Description</b> END BENT 2 CRUTCH BENT			
<b>Bridge No:</b> 560149	<b>Drawn By:</b> RICK POOLE			<b>Date:</b> 3/8/2022	<b>File Name:</b> S0434000045		