



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **FRACTURE CRITICAL**, Priority Action Request, Changes to Structure Data; inspected South to North - I26 runs West to East

# Structure Safety Report

## Routine Element Inspection - Contract

INSPECTION DATE: 05/22/2019

DIVISION: 14 COUNTY: HENDERSON STRUCTURE NUMBER: 440108 FREQUENCY: 24 MONTHS

FACILITY CARRIED: I-26,US74 WBL MILE POST: 55.7

LOCATION: 1.7 MI.E.JCT.NC225

FEATURE INTERSECTED: GREEN RIVER

LATITUDE: 35° 16' 27.11" LONGITUDE: 82° 22' 24.52"

SUPERSTRUCTURE: REINF.CONC.FLOOR ON GDR/FL.BM.SYS&CONT.GDR/FL.BM.SYSTEM

SUBSTRUCTURE: ABUTMENTS:RC;INT.BTS:RC HAMMERHEAD/CONC.FTGS.

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

FRACTURE CRITICAL     TEMPORARY SHORING     SCOUR CRITICAL     SCOUR PLAN OF ACTION

NBI GRADES: DECK 6 SUPERSTRUCTURE 6 SUBSTRUCTURE 7 CULVERT N

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

OTHER SIGNS PRESENT: None



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

DIRECTION OF INSPECTION S-N

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

South approach looking North

INSPECTED BY Thomas Graham, PE	SIGNATURE 	ASSISTED BY D. Winters, J. Pratt, W. Graham, M. Ferguson, J. DeThomasis
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NATIONAL BRIDGE INVENTORY ----- STRUCTURE INVENTORY AND APPRAISAL

11/06/2019

**IDENTIFICATION**

(1) STATE NAME NORTH CAROLINA BRIDGE **440108**  
 (8) STRUCTURE NUMBER (FEDERAL) **0890108**  
 (5) INVENTORY ROUTE (ON/UNDER) ON **111000260**  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT **14**  
 (3) COUNTY CODE (FEDERAL) **89** (4) PLACE CODE **00000**  
 (6) FEATURE INTERSECTED **GREEN RIVER**  
 (7) FACILITY CARRIED **I-26,US74 WBL**  
 (9) LOCATION **1.7 MI.E.JCT.NC225**  
 (11) MILEPOINT **55.7**  
 (12) BASE HIGHWAY NETWORK **1**  
 (13) LRS INVENTORY ROUTE & SUBROUTE **10026**  
 (16) LATITUDE **35° 16' 27.11"** (17) LONGITUDE **82° 22' 24.52"**  
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED  
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING **77.**  
 STATUS = **Functionally Obsolete**  
**020000000000**  
**00**

**CLASSIFICATION** **CODE**

(112) NBIS BRIDGE SYSTEM **YES**  
 (104) HIGHWAY SYSTEM **Inventory Route is on NHS 1**  
 (26) FUNCTIONAL CLASS **Rural Principal Arterial - Interstate 01**  
 (100) STRAHNET HIGHWAY **Interstate STRAHNET Route 1**  
 (101) PARALLEL STRUCTURE **The left structure of parallel bridges L**  
 (102) DIRECTION OF TRAFFIC **1-way traffic 1**  
 (103) TEMPORARY STRUCTURE  
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks **1**  
 (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 Continuous**  
 TYPE **Girder and Floorbeam System** CODE **403**  
 (44) STRUCTURE TYPE APPROACH  
 TYPE CODE  
 (45) NUMBER OF SPANS IN MAIN UNIT **3**  
 (46) NUMBER OF SPANS IN APPROACH **2**  
 (107) DECK STRUCTURE TYPE CODE **1**  
 (108) WEARING SURFACE/PROTECTIVE SYSTEM  
 (A) TYPE OF WEARING SURFACE CODE **1**  
 (B) TYPE OF MEMBRANE CODE **0**  
 (C) TYPE OF DECK PROTECTION CODE **0**

**CONDITION** **CODE**

(58) DECK **6**  
 (59) SUPERSTRUCTURE **6**  
 (60) SUBSTRUCTURE **7**  
 (61) CHANNEL & CHANNEL PROTECTION **9**  
 (62) CULVERTS **N**

**LOAD RATING AND POSTING** **CODE**

(31) DESIGN LOAD **H 20 + Mod 6**  
 (63) OPERATING RATING METHOD - **Load Factor 1**  
 (64) OPERATING RATING - **HS-31 58**  
 (65) INVENTORY RATING METHOD - **1**  
 (66) INVENTORY RATING **HS-18 35**

**AGE AND SERVICE**

(27) YEAR BUILT **1968**  
 (106) YEAR RECONSTRUCTED **2013.**  
**00000000000000**  
**0**  
 (42) TYPE OF SERVICE ON - **Highway**  
 OFF - **Waterway** CODE **15**  
 (28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **0**  
 (29) AVERAGE DAILY TRAFFIC **17500**  
 (30) YEAR OF ADT **2015** (109) TRUCK ADT PCT **23**  
 (19) BYPASS OR DETOUR LENGTH **1.0**

(70) BRIDGE POSTING **No Posting Required 5**  
 (41) STRUCTURE OPEN, POSTED, OR CLOSED **A**  
 DESCRIPTION **Open, no restriction**

**APPRAISAL** **CODE**

(67) STRUCTURAL EVALUATION **6**  
 (68) DECK GEOMETRY **3**  
 (69) UNDERCLEARANCES, VERT & HORIZ **N**  
 (71) WATERWAY ADEQUACY **6**  
 (72) APPROACH ROADWAY ALIGNMENT **3**  
 (36) TRAFFIC SAFETY FEATURES **1111**  
 (113) SCOUR CRITICAL BRIDGES **8**

**GEOMETRIC DATA**

(48) LENGTH OF MAXIMUM SPAN **327.0**  
 (49) STRUCTURE LENGTH **1050.0**  
 (50) CURB OR SIDEWALK: LEFT **0.0** RIGHT **0.0**  
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB **28.0**  
 (52) DECK WIDTH OUT TO OUT **34.7**  
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) **28.0**  
 (33) BRIDGE MEDIAN **Open median** CODE **1**  
 (34) SKEW **0** (35) STRUCTURE FLARED **0**  
 (10) INVENTORY ROUTE MIN VERT CLEAR **999.9**  
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR **28.0**  
 (53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**  
 (54) MIN VERT UNDERCLEAR: REFERENCE **0.0**  
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE **N 0.0**  
 (56) MIN LAT UNDERCLEARANCE LT: **0.0**

**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 **35,000** YEAR OF FUTURE ADT **2025**

**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 **05/17** (91) FREQUENCY **24**  
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE  
 A) FRACTURE CRIT DETAIL **24** A)  
 B) UNDERWATER INSP **0** B)  
 C) OTHER SPECIAL INSP **0** C)  
 SCOUR

## Superstructure Build Details

Span Number 1

Span Length 99.7900

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	W Beam Stringer	Steel Stringer	196 Feet	WS with Acrylic Primer and Topcoat	1386
2	Plate Girder	Steel Open Girder/Beam	198 Feet	WS with Acrylic Primer and Topcoat	7118
1	Fixed Bearing	Fixed Bearing	1 Each	WS with Acrylic Primer and Topcoat	5
1	Fixed Bearing	Fixed Bearing	1 Each	Unknow	5
1	Compression Seal	Compression Joint Seal	28 Feet		
5	W Type Steel Floor Beam	Steel Floor Beam	120 Feet	WS with Acrylic Primer and Topcoat	1030
1	Reinforced Concrete Deck	Reinforced Concrete Deck	3460 Square Feet		
1	Movable Bearing	Movable Bearing	1 Each	Unknow	5
1	Movable Bearing	Movable Bearing	1 Each	WS with Acrylic Primer and Topcoat	5
1	Concrete and Metal Railing	Other Bridge Railing	100 Feet		

Span Number 2

Span Length 260.0000

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	9015 Square Feet		
2	Concrete and Metal Railing	Other Bridge Railing	520 Feet		
1	Prefabricated Joint with Seal	Assembly Joint with Seal	28 Feet		
4	Other Bearing	Other Bearings	4 Each	Unknow	20
4	Rocker Bearing	Movable Bearing	4 Each	Unknow	20
2	W Beam Stringer	Steel Stringer	1700 Feet	WS with Acrylic Primer and Topcoat	6181
2	Plate Girder	Steel Open Girder/Beam	1702 Feet	WS with Acrylic Primer and Topcoat	61856
37	W Type Steel Floor Beam	Steel Floor Beam	888 Feet	WS with Acrylic Primer and Topcoat	7717

Span Number 3

Span Length 330.1700

Skew 90.0000

## Superstructure Build Details

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete and Metal Railing	Other Bridge Railing	662 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	11447 Square Feet		

**Span Number** 4                      **Span Length** 260.0000                      **Skew** 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	9015 Square Feet		
2	Concrete and Metal Railing	Other Bridge Railing	520 Feet		

**Span Number** 5                      **Span Length** 99.7900                      **Skew** 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Fixed Bearing	Fixed Bearing	2 Each	Unknow	10
1	Reinforced Concrete Deck	Reinforced Concrete Deck	3460 Square Feet		
1	Prefabricated Joint with Seal	Assembly Joint with Seal	28 Feet		
2	Concrete and Metal Railing	Other Bridge Railing	200 Feet		
1	Compression Seal	Compression Joint Seal	28 Feet		
2	Movable Bearing	Movable Bearing	2 Each	Unknow	10
5	W Type Steel Floor Beam	Steel Floor Beam	120 Feet	WS with Acrylic Primer and Topcoat	1030
2	W Beam Stringer	Steel Stringer	196 Feet	WS with Acrylic Primer and Topcoat	1386
2	Plate Girder	Steel Open Girder/Beam	198 Feet	WS with Acrylic Primer and Topcoat	7118

# Structure Element Scoring

Structure Number: **440108**

Inspection Date **5/22/2019**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	27382	8643	14033	4706	0
107	0	Steel Open Girder/Beam	Beam	2098	1374	446	219	59
515	107	Steel Protective Coating	Beam	76092	71712	3760	0	620
113	0	Steel Stringer	Stringers	2092	2089	0	2	1
515	113	Steel Protective Coating	Stringers	8953	8953	0	0	0
152	0	Steel Floor Beam	Floor Beams	1128	942	102	56	28
515	152	Steel Protective Coating	Floor Beams	9777	9777	0	0	0
205	0	Reinforced Concrete Column	Piles and Columns	4	3	0	1	0
215	0	Reinforced Concrete Abutment	Abutments	120	113	5	2	0
234	0	Reinforced Concrete Pier Cap	Caps	208	204	4	0	0
302	0	Compression Joint Seal	Expansion Joints	56	9	13	28	6
303	0	Assembly Joint with Seal	Expansion Joints	56	0	42	2	12
311	0	Movable Bearing	Bearing Device	8	8	0	0	0
515	311	Steel Protective Coating	Bearing Device	40	40	0	0	0
313	0	Fixed Bearing	Bearing Device	4	0	0	4	0
515	313	Steel Protective Coating	Bearing Device	20	16	0	0	4
316	0	Other Bearings	Bearing Device	4	4	0	0	0
515	316	Steel Protective Coating	Bearing Device	20	20	0	0	0
321	0	Reinforced Concrete Approach Slabs	Approaches	832	762	51	19	0
333	0	Other Bridge Railing	Bridge Rail	1482	0	1452	30	0

# Summary of Maintenance Needs

## Maintenance By Defect

Structure Number: **440108**

Inspection Date: **05/22/2019**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	18312 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	532 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	1 Square Feet
3326	Reinforced Concrete Deck	Efflorescence/Rust Staining	80 Square Feet
3314	Steel Open Girder/Beam	Corrosion	346 Feet
3314	Steel Open Girder/Beam	Cracking	1 Feet
3314	Steel Open Girder/Beam	Connection	428 Feet
3314	Steel Open Girder/Beam	Damage	7 Feet
3314	Steel Stringer	Connection	1 Feet
3314	Steel Stringer	Corrosion	3 Feet
3314	Steel Floor Beam	Corrosion	91 Feet
3348	Reinforced Concrete Column	Damage	1 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	2 Feet
3348	Reinforced Concrete Pier Cap	Damage	4 Feet
3310	Compression Joint Seal	Seal Adhesion	6 Feet
3310	Compression Joint Seal	Seal Damage	1 Feet
3310	Compression Joint Seal	Adjacent Deck or Header	17 Feet
3308	Assembly Joint with Seal	Seal Adhesion	55 Feet
3308	Assembly Joint with Seal	Metal Deterioration or Damage	2 Feet
3334	Fixed Bearing	Corrosion	4 Each
3353	Reinforced Concrete Approach Slabs	Delamination/Spall	7 Square Feet
3353	Reinforced Concrete Approach Slabs	Cracking (RC and Other)	39 Square Feet
3318	Other Bridge Railing	Delamination/Spall	30 Feet
3342	Steel Protective Coating	Oxide Film Degradation Color/Texture Adherence (Steel Protec	4180 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	204 Square Feet

## Element Structure Maintenance Quantities

Structure Number: **440108**

Inspection Date **05/22/2019**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	2	120	0	2	5	113
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	46	832	0	19	51	762
Beam	3314	Maintenance Steel Superstructure Components	782	2098	59	219	446	1374
Beam	3342	Clean and Paint Steel	4380	76092	620	0	3760	71712
Bearing Device	3334	Bridge Bearing	4	16	0	4	0	12
Bearing Device	3342	Clean and Paint Steel	4	80	4	0	0	76
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	30	1482	0	30	1452	0
Caps	3348	Maintenance of Concrete Substructure	4	208	0	0	4	204
Deck	3326	Maintenance of Concrete Deck	15983	27382	0	4706	14033	8643
Expansion Joints	3308	Maintenance of Steel Plate Joints	57	56	12	2	42	0
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	24	56	6	28	13	9
Floor Beams	3314	Maintenance Steel Superstructure Components	91	1128	28	56	102	942
Floor Beams	3342	Clean and Paint Steel	0	9777	0	0	0	9777
Piles and Columns	3348	Maintenance of Concrete Substructure	1	4	0	1	0	3
Stringers	3314	Maintenance Steel Superstructure Components	4	2092	1	2	0	2089
Stringers	3342	Clean and Paint Steel	0	8953	0	0	0	8953

# Priority Actions Request

Structure Number 440108

## Span1

3314 Beam 2 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 2: [PAR] at bent 1, arrested metal loss, lower web [18in x 3in - avg rem 1/4in]; bottom flange [18in x 12in - avg rem 7/8in]

## Span 2

3314 Beam 1 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Floor Beam 1: [PAR] first web stiffener from girder 2, painted over pitting [5in x full width x down to knife edge] with corrosion hole [1in diameter]
2	Corrosion	6	Span 2 Floor Beam 12: [PAR] lower web south face next to girder 1, active corrosion with section loss [7ft x 4in - avg rem 5/16in]
2	Corrosion	21	Span 2 Floor Beam 32: [PAR] lower web North face, active corrosion with section loss [full length x 2in - avg rem 3/8in]
2	Corrosion	7	Span 2 Beam 1: [PAR] span 2, exterior and interior of lower web at splice 5, active corrosion with section loss [7ft x 2-1/2in - avg rem 7/16in] with areas of up to 1/4in loss [avg rem 3/8in]
2	Corrosion	4	Span 2 Beam 1: [PAR] span 4, interior and exterior face of lower web at splice 16, active corrosion with section loss [4ft x 2in - avg rem 7/16in] with areas of 1/4in loss [avg rem 3/8in]
2	Cracking	1	Span 2 Beam 1: exterior face of top flange at web stiffener 20, dye pen test indicates possible 1/8in crack in toe of weld

3314 Beam 2 Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	8	Span 2 Beam 2: [PAR] lower web exterior face at splice 5, active corrosion with section loss [7ft-10in x up to 2-1/2in - avg rem 15/32in]

## Span4

3326 Deck Reinforced Concrete Deck

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Span 4 Deck: [PAR] underside of deck at far end, spall [12in x 12in x 3in deep] with exposed transverse and longitudinal rebar [loss < 1/16in]

## Span5

3308 Expansion Joint 5 Prefabricated Joint with Seal

Priority Level	Defect Type	Quantity	Defect Description
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? Priority Action Request (PAR)
 1 Assigned Routine Maintenance
 2 Assigned Priority Maintenance
 3 Assigned Critical Find



# Priority Actions Request

Structure Number 440108

2

Metal Deterioration or

- 1 Expansion Joint 5 : [PAR] right travel lane left wheel path in aluminum, two [2] cracks [up to 5in x up to 1/16in]

## Element Condition and Maintenance Data

Structure Number: 440108

Inspection Date: 05/22/2019

### Span 1

### Deck

#### Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	3,460	1,796	1,644	20	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	along underside of both overhangs, multiple spalls [up to 29in x 29in x 2in deep] with exposed rusted reinforcing [loss up to 1/16in]	3	18	18	Square Feet
12	Delamination/Spall	underside of East overhang at End Bent 1, spall [18in x 9in x 1in deep] with exposed rusted reinforcing [no loss]	3	2	2	Square Feet
12	Cracking (RC and Other)	throughout right travel lane multiple transverse cracks [up to 5ft x 0.02in]	2	1,040	1,040	Square Feet
12	Delamination/Spall	left lane 15ft from End Bent 1 adjacent to yellow line, delamination [3.5ft x 2.5ft]	2	9	9	Square Feet
12	Efflorescence/Rust Staining	throughout underside of deck and overhangs, multiple transverse cracks [up to 16ft x hairline] with efflorescence	2	100		Square Feet
12	Patched Areas	left lane at far end adjacent to yellow line, sound repair [12ft x 1.5ft]	2	18		Square Feet
12	Patched Areas	throughout underside of deck, multiple sound patches [up to 3ft x 3ft]	2	175		Square Feet
12	Cracking (RC and Other)	throughout right travel lane in both wheel paths, multiple longitudinal cracks [up to 8ft x up to 0.04in]	2	300	300	Square Feet
12	Delamination/Spall	in both lanes 10ft from bent 1 and at midspan, two [2] spalls [up to 4in x 1in x up to 1in deep]	2	2	2	Square Feet
12	Cracking (RC and Other)	throughout left travel lane, multiple transverse cracks [up to 5ft x hairline]	1	350		Square Feet
12	Cracking (RC and Other)	throughout underside of deck and overhangs, multiple transverse cracks [up to full width x hairline]	1	300		Square Feet
12	Cracking (RC and Other)	throughout left travel lane in right wheel path, multiple longitudinal cracks [up to 6ft x hairline]	1	150		Square Feet

#### General Comments

between underside of deck and backwall, gap [up to 3/8in x full length]

### 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	99	0	71	28	0	Feet
515	Steel Protective Coating	3,559	3,229	300	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	bottom of web near connection plate at bent 1, painted over pitting [15in x 3in x 1/16in]	3	1	1	Feet
107	Corrosion	along length of bottom flange and cover plate, pack rust [up to 7/16in]	3	25	25	Feet
107	Corrosion	between lateral bracing and connection plate at floor beam 1, pack rust [1/4in]	3	1	1	Feet
107	Corrosion	between lateral bracing and connection plate at floor beam 5, pack rust [up to 3/8in]	3	1	1	Feet
107	Corrosion	along length of exterior face at lower web and web stiffener, active corrosion with section loss [up to 3in high x 1/16in loss]	2	40		Feet
107	Corrosion	end diaphragm at bent 1 underside of lateral member, painted over pitting [full length x full width x 1/32in loss] with pack rust [up to 3/16in] between connection plate	2	1		Feet
107	Connection	poor quality welds found throughout longitudinal and vertical web stiffeners	2	30	30	Feet
515	Oxide Film Degradation Color/Texture	along length of beam, areas of patina failure [flakes > 1/2in diameter]	4	30	30	Square Feet

Adherence (Steel Protective Coatings)					
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [granular texture]	2	300	300 Square Feet

**General Comments**

**Span 1 Beam 2 Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	99	0	10	89	0 Feet
515	Steel Protective Coating	3,559	3,229	300	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along length of bottom flange and cover plate, pack rust [up to 1/16in]	3		85 Feet
107	Corrosion	between lateral bracing and connection plate at floor beam 5, pack rust [up to 3/8in]	3	1	1 Feet
107	Corrosion	bottom of web near connection plate at bent 1, painted over pitting [4ft x 1-1/2in x 1/16in]	3	2	2 Feet
107	Corrosion	lower web along length of exterior face, active corrosion with section loss [85ft x up to 2-1/2in x up to 3/32in deep]	3	83	83 Feet
107	Corrosion	[PAR] at bent 1, arrested metal loss, lower web [18in x 3in - avg rem 1/4in]; bottom flange [18in x 12in - avg rem 7/8in]	3	2	2 Feet
107	Corrosion	between lateral bracing and connection plate at floor beam 1, pack rust [1/4in]	3	1	1 Feet
107	Connection	poor quality welds found throughout longitudinal and vertical web stiffeners	2	10	30 Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [flakes > 1/2in diameter]	4	30	30 Square Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [granular texture]	2	300	300 Square Feet

**General Comments**

end 11ft at both ends painted

**Span 1 Floor Beam 1 W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	22	0	2	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between floor beam and web stiffener of girder 1 & 2, pack rust [1/8in]	3	2	2 Feet

**General Comments**

**Span 1****Floor Beam 5****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	14	10	0	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	underside of bottom flange at center, painted over pitting [10ft x up to full width x up to 1/32in]	2	10	Feet

**General Comments**

web at 2ft centers near top flange, twelve [12] drilled holes [5/8in diameter]

**Span 1****Beam 1 Near Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	5	4	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	active corrosion with section loss [loss up to 1/8in] with pack rust [1/2in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion of underlying metal	4	1	1 Square Feet

**General Comments****Span 1****Beam 2 Near Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	5	4	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	active corrosion with section loss [loss up to 1/8in] with pack rust [1/2in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion of underlying metal	4	1	1 Square Feet

**General Comments****Span 1****Expansion Joint 1****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
302	Compression Joint Seal	28	4	13	11	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
302	Seal Adhesion	along joint in right lane, seal adhesion failure [up to 2in deep]	3	10	Feet
302	Seal Damage	at 5ft from East curb, hole in joint material [1-1/2in x 1/2in x 1-3/4in deep]	3	1	1 Feet
302	Adjacent Deck or Header	at both headers of right lane, multiple edge spalls [up to 6in x 1in x 1in deep] at area of repair	2	11	Feet

**302** Debris Impaction at right shoulder, debris accumulation [14in] 2 2 Feet

**General Comments****Span 1 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	100	0	100	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Corrosion	along length of thrie beam at base of posts, active surface corrosion and some with pack rust	2	2	Feet
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	30	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	68	Feet

**General Comments****Span 2 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	9,015	255	4,190	4,570	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	throughout span, multiple transverse cracks [up to full width x 1/16in]	3	3,600	3,600 Square Feet
12	Cracking (RC and Other)	throughout underside of deck, multiple transverse cracks [up to full width x 1/16in] with efflorescence	3	902	902 Square Feet
12	Delamination/Spall	throughout span, multiple spalls [up to 3in x up to 3in x up to 1in deep]	3	9	9 Square Feet
12	Delamination/Spall	underside of deck above floor beam 7 adjacent to girder 2, spall [18in x 5in x 1in deep]	3	1	1 Square Feet
12	Delamination/Spall	underside West overhang at midspan, spall [45in x 18in x 1-1/2in deep] with exposed rusted rebar	3	4	4 Square Feet
12	Delamination/Spall	right travel lane 3ft from joint 2, patch [14in x 20in] with edge spalling [up to 12in x 3in x 1in deep]	3	2	2 Square Feet
12	Delamination/Spall	throughout underside of deck adjacent to girders, multiple spalls [up to 5in x 3in x 1in deep] with exposed rusted rebar [no loss]	3	50	50 Square Feet
12	Delamination/Spall	underside East overhang at 80ft from bent 1, two [2] spalls [up to 10in x 8in x 1-1/4in deep] with exposed rusted rebar [no loss] and adjacent delamination [6in x 3in]	3	2	2 Square Feet
12	Cracking (RC and Other)	left travel lane in right wheel path extending from joint 2, longitudinal crack [14in x 0.05in], extends down into joint	2	2	2 Square Feet
12	Cracking (RC and Other)	throughout span, multiple longitudinal and transverse cracks [up to 30ft x 0.03in]	2	3,504	3,504 Square Feet
12	Cracking (RC and Other)	underside of deck between floor beams 1 and 2, transverse crack [full width] patched with concrete	2	8	8 Square Feet
12	Efflorescence/Rust Staining	along underside both overhangs, multiple transverse cracks [full width x hairline] with efflorescence	2	35	Square Feet
12	Patched Areas	throughout underside of deck, multiple sound patches [up to 15in x 6in]	2	451	Square Feet
12	Delamination/Spall	throughout span at random locations, multiple delaminations [up to 7ft x 4ft]	2	185	185 Square Feet
12	Patched Areas	underside of deck between floor beams 1 and 2, two [2] sound patches [up to 2ft x 2ft]	2	5	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	851	634	143	43	31	Feet
515	Steel Protective Coating	30,928	27,428	3,000	0	500	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 3, no weld present	4	1	1	Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 5, no weld present	4	1	1	Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 7, no weld present	4	1	1	Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 8, no weld present	4	1	1	Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 17, no weld present	4	1	1	Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 18, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 30, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 33, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 34, no weld present	4	1	1	Feet
107	Corrosion	[PAR] span 2, exterior and interior of lower web at splice 5, active corrosion with section loss [7ft x 2-1/2in - avg rem 7/16in] with areas of up to 1/4in loss [avg rem 3/8in]	4	7	7	Feet
107	Corrosion	[PAR] span 4, interior and exterior face of lower web at splice 16, active corrosion with section loss [4ft x 2in - avg rem 7/16in] with areas of 1/4in loss [avg rem 3/8in]	4	4	4	Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 10, no weld present	4	1	1	Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 4, no weld present	4	1	1	Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 6, no weld present	4	1	1	Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 9, no weld present	4	1	1	Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 19, no weld present	4	1	1	Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 20, no weld present	4	1	1	Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 21, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 28, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 29, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 31, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 32, no weld present	4	1	1	Feet
107	Corrosion	span 2, between connection plate and lateral bracing at floor beam 9, pack rust [up to 1/16in]	3		1	Feet
107	Corrosion	span 3, between bottom flanges at field splice 11 exterior face, pack rust [3/4in]	3		1	Feet
107	Corrosion	span 3, between bottom flanges at field splice 7 exterior face, pack rust [1/2in]	3	1	1	Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 16, pack rust [up to 1/8in]	3		1	Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 18, pack rust [up to 3/8in] and active corrosion with section loss [8in x 3in x 1/4in loss] at connection plate	3		1	Feet

107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 23, pack rust [up to 1/4in]	3	1	1	Feet
107	Corrosion	span 3, lower web and splice plate exterior face at splice plate 6, section loss [4ft x 1in x 1/16in loss] on web, and [full width x 1in x 1/16in loss] on plate	3	4	4	Feet
107	Corrosion	span 4, between bottom flanges at field splice 12 exterior face, pack rust [1/2in]	3	1	1	Feet
107	Corrosion	span 4, between connection plate and lateral bracing at floor beam 35, pack rust [up to 3/16in]	3	1	1	Feet
107	Corrosion	span 4, lower web exterior face at bottom flange splice plate 16, section loss [4ft x 1in - avg rem 1/2in]	3	4	4	Feet
107	Corrosion	span 4, upper web interior face south side of floor beam 32, active corrosion with section loss [10in x up to 4in x 1/8in loss]	3			1 Feet
107	Corrosion	span 2, between bottom flanges at field splice 2 exterior face, pack rust [1/2in]	3	1	1	Feet
107	Corrosion	span 2, between connection plate and lateral bracing at floor beam 3, pack rust [up to 1/16in]	3			1 Feet
107	Corrosion	span 2, between connection plate and lateral bracing at floor beam 6, pack rust [up to 1/4in]	3			1 Feet
107	Corrosion	span 2, between end diaphragm lower member and connection plate at floor beam 12, pack rust [up to 1/8in]	3	1	1	Feet
107	Corrosion	span 2, lower web interior face at base on south side of floor beam 12, active corrosion with section loss [9in x 2in x up to 1/8in loss]	3	1	1	Feet
107	Corrosion	span 2, upper web interior face south side at floor beam 6, active corrosion with section loss [3in x 1-1/2in x 1/16in loss]	3			1 Feet
107	Corrosion	span 3, between bottom flanges at field splice 6 exterior face, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 3, between bottom flanges at field splice 7 exterior face, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 15, pack rust [up to 1/4in]	3			1 Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 20, pack rust [up to 1/16in]	3			1 Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 24, pack rust [up to 1/8in]	3	1	1	Feet
107	Corrosion	span 3, between end diaphragm lower member and connection plate at floor beam 26, pack rust [up to 1/4in]	3	1	1	Feet
107	Corrosion	span 3, lower web and splice plate both faces at splice plate 11, active corrosion with section loss, web [6.5ft x 3in - avg rem 1/2in] with areas of 3/16in loss [avg rem 3/8in]; plate [full width x 1-1/2in x 1/16in loss], and lower bolts [10% loss]	3	7	7	Feet
107	Corrosion	span 3, lower web and splice plate exterior face at splice plate 10, section loss [7ft x 1-1/2in x avg rem 1/2in] on web, and [full width x 1-1/2in x 1/16in loss] on plate	3	7	7	Feet
107	Corrosion	span 3, lower web and splice plate exterior face at splice plate 7, section loss [4ft x 1in x 1/16in loss] on web, and [full width x 1in x 1/16in loss] on plate	3	4	4	Feet
107	Corrosion	span 4, between bottom flanges at field splice 13 exterior face, pack rust [1/2in]	3	1	1	Feet
107	Corrosion	span 4, between connection plate and lateral bracing at floor beam 29, pack rust [up to 1/4in]	3			1 Feet
107	Corrosion	span 4, between connection plate and lateral bracing at floor beam 32, pack rust [up to 1/4in]	3			1 Feet
107	Corrosion	span 4, lower web and splice plate exterior face at splice plate 16, active corrosion with section loss, web [4ft x 2in - avg rem 7/16in]; top of plate [full width x 1in x 1/16in loss]	3	3	3	Feet
107	Corrosion	span 4, lower web exterior face at splice plate 13, section loss [32in x 1-1/2in - avg rem 1/2in]	3	1	1	Feet
107	Cracking	exterior face of top flange at web stiffener 20, dye pen test indicates possible 1/8in crack in toe of weld	3	1	1	Feet
107	Connection	poor quality welds found throughout longitudinal and vertical web stiffeners	2	130	130	Feet
107	Connection	span 3, at angle bracket weld to web at 8ft North of floor beam 20, weld repair visible	2	1	1	Feet
107	Connection	span 3, web to connection plate weld South side at floor beam 19, weld repair visible from previous "no weld" comment	2			1 Feet
107	Corrosion	span 2, end diaphragm at bent 1 underside of lateral member, painted over pitting [full length x full width x 1/32in]	2	1		Feet

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107	Damage	span 3, end diaphragm diagonal bracing member next to floor beam 14, bent [4in x 1/2in]	2	1	1	Feet
107	Damage	span 3, web near top at 5ft North of floor beam 15, drilled hole that partially penetrates horizontal web stiffener	2	1	1	Feet
107	Corrosion	span 2, bottom of web near connection plate at bent 1, painted over pitting [15in x 3in x 1/16in]	2	2		Feet
107	Corrosion	span 4, lower web and splice plate exterior face at splice plate 12, active corrosion with section loss [2ft x 1in x 1/16in loss] on web, and [full width x 1in x 1/16in loss] on plate	2	2		Feet
107	Damage	span 3, web near base at 5ft North of floor beam 15, two [2] drilled holes that partially penetrates horizontal web stiffener, two [2] more similar at 8ft North of floor beam 15, one [1] similar at 5ft South of floor beam 16	2	5	5	Feet
107	Connection	span 2, web stiffener to connection plate at floor beam 10, bolted connection [no weld visible]	1	1		Feet
515	Effectiveness (Steel Protective Coatings)	underside of top flange over bent 3, underdeveloped patina with exposed steel	4	200	200	Square Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [flakes > 1/2in diameter]	4	300	300	Square Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [granular texture]	2	3,000	3,000	Square Feet

**General Comments**

span 3, underside of connection plate to web on south side at floor beam 19, tack weld

**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	851	612	162	49	28 Feet
515	Steel Protective Coating	30,928	30,928	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 10, no weld present	4	1	1 Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 4, no weld present	4	1	1 Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 5, no weld present	4	1	1 Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 7, no weld present	4	1	1 Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 9, no weld present	4	1	1 Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 17, no weld present	4	1	1 Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 18, no weld present	4	1	1 Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 31, no weld present	4	1	1 Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 32, no weld present	4	1	1 Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 34, no weld present	4	1	1 Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 3, no weld present	4	1	1 Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 6, no weld present	4	1	1 Feet
107	Connection	span 2, underside of connection plate and web stiffener at floor beam 8, no weld present	4	1	1 Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 19, no weld present	4	1	1 Feet



107	Connection	span 3, underside of connection plate and web stiffener at floor beam 20, no weld present	4	1	1	Feet
107	Connection	span 3, underside of connection plate and web stiffener at floor beam 21, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 28, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 29, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 30, no weld present	4	1	1	Feet
107	Connection	span 4, underside of connection plate and web stiffener at floor beam 33, no weld present	4	1	1	Feet
107	Corrosion	[PAR] lower web exterior face at splice 5, active corrosion with section loss [7ft-10in x up to 2-1/2in - avg rem 15/32in]	4	8	8	Feet
107	Connection	[PAR] span 4, upper web to 4th web stiffener from bent 2 exterior face, crack in weld (5in) found after dye-penetrant test performed	3	1	1	Feet
107	Connection	span 2, web to web stiffener weld at floor beam 2 both faces at 3ft from bottom flange, poor quality weld repair	3	1	1	Feet
107	Connection	span 2, web to web stiffener weld north face at base between floor beams 5 and 6, poor quality weld [3ft]	3	1	1	Feet
107	Corrosion	lower web exterior face at splice 6, active corrosion with section loss [7ft-10in x up to 2-1/2in - avg rem 1/2in]	3	8	8	Feet
107	Corrosion	span 2, between connection plate and lateral bracing at floor beam 3, pack rust [up to 1/16in]	3		1	Feet
107	Corrosion	span 2, between connection plate and lateral bracing at floor beam 6, pack rust [up to 1/4in]	3		1	Feet
107	Corrosion	span 2, between end diaphragm lower member and connection plate at floor beam 12, pack rust [up to 3/16in]	3	1	1	Feet
107	Corrosion	span 2, lower web exterior face at splice 2, 3, 7, & 8, active corrosion with section loss [up to 42in x 1-1/2in - avg rem 1/2in]	3	8	8	Feet
107	Corrosion	span 3, between bottom flanges at field splice 6 exterior face, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 3, between bottom flanges at splice 7 exterior face, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 15, pack rust [up to 1/4in]	3	1	1	Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 18, pack rust [up to 3/16in]	3		1	Feet
107	Corrosion	span 3, south side between connection plate lateral bracing at floor beam 26, pack rust [up to 1/8in]	3	1	1	Feet
107	Corrosion	span 3, south side of connection plate at floor beam 26, active corrosion with section loss [5in x 3in x 1/16in loss]	3	1	1	Feet
107	Corrosion	span 4, between connection plate and lateral bracing at floor beam 29, pack rust [up to 1/8in]	3		1	Feet
107	Corrosion	span 4, between connection plate and lateral bracing at floor beam 32, pack rust [up to 3/16in]	3		1	Feet
107	Corrosion	span 4, lower web and splice plate exterior face at splice 12, active corrosion with section loss, web [7ft-10in x 2in x avg rem 9/16in]; plate [full width x 1in x 1/16in loss]	3	8	8	Feet
107	Corrosion	span 4, lower web exterior face at bottom flange splice 15, section loss [38in x 2in x up to 1/16in loss]	3	2	2	Feet
107	Corrosion	span 2, between bottom flanges at field splice 1 exterior face, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 2, between connection plate and lateral bracing at floor beam 10, pack rust [up to 1/16in]	3		1	Feet
107	Corrosion	span 2, between connection plate and lateral bracing at floor beam 9, pack rust [up to 3/16in]	3		1	Feet
107	Corrosion	span 3, between bottom flanges at splice 12 exterior face, pack rust [up to 1/2in]	3		1	Feet
107	Corrosion	span 3, between bottom flanges at splice 8 exterior face, pack rust [up to 3/4in]	3	1	1	Feet
107	Corrosion	span 3, between bottom flanges at splice 9 exterior face, pack rust [up to 1/2in]	3		1	Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 19, pack rust [up to 1/8in]	3		1	Feet
107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 20, pack rust [up to 1/8in]	3		1	Feet

107	Corrosion	span 3, between connection plate and lateral bracing at floor beam 23, pack rust [up to 1/8in]	3	1	1	Feet
107	Corrosion	span 3, between vertical connection plate and end diaphragm lower member at floor beam 26, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 3, lower web and splice plate exterior face at splice 6, active corrosion with section loss, web [6ft x 1in x 1/16in loss]; plate [full width x 1in x 1/16in loss]	3	6	6	Feet
107	Corrosion	span 4, between bottom flanges at bottom flange splice 15 exterior face, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 4, between bottom flanges at field splice 16 exterior face, pack rust [up to 1/2in]	3	1	1	Feet
107	Corrosion	span 4, between bottom flanges at splice 12 exterior face, pack rust [up to 1/2in]	3		1	Feet
107	Corrosion	span 4, between connection plate and lateral bracing at floor beam 30, pack rust [up to 3/16in]	3		1	Feet
107	Corrosion	span 4, between connection plate and lateral bracing at floor beam 35, pack rust [up to 3/16in]	3	1	1	Feet
107	Corrosion	span 4, between lateral bracing and connection plate at floor beam 37, pack rust [up to 1/8in]	3	1	1	Feet
107	Corrosion	span 2, bottom of web near connection plate at bent 1, painted over pitting [1ft x 2in x 1/16in]	2	1		Feet
107	Corrosion	span 3, exterior face at splice plate 10, active corrosion with section loss, web [40in x 2in x 1/16in loss]; plate [full width x 1-1/2in x 1/16in loss]	2	5		Feet
107	Corrosion	span 3, lower web and splice plate exterior face at splice plate 11, active corrosion with section loss, web [7ft-10in x 2in x avg rem 1/2in]; plate [full width x 1-1/2in x 1/16in loss]	2	7		Feet
107	Corrosion	span 4, lower web exterior face at bottom flange splice plate 3, section loss [42in x 2in x up to 1/16in loss]	2	4		Feet
107	Corrosion	span 4, lower web interior face between floor beams 29 and 30, active corrosion with section loss [8ft x 1-1/2in x 1/16in loss]	2	8		Feet
107	Distortion	span 2, vertical angle channel between girders 1 and 2, bent at base [3/4in]	2	1		Feet
107	Connection	poor quality welds found throughout longitudinal and vertical web stiffeners	2	130	130	Feet
107	Connection	span 3, exterior face at splice 10, splice in contact with horizontal web stiffener	2		1	Feet
107	Connection	span 4, exterior face at web stiffener 36, no weld between horizontal and vertical stiffener [both sides], similar at stiffener 37	2	1	1	Feet
107	Connection	span 4, web stiffener north face mid-height at floor beam 30, weld repair	2		1	Feet
107	Corrosion	span 2, lower web exterior face at bottom flange splice 1 & 4, active corrosion with section loss [40in x 1-1/2in x up to 1/16in loss]	2	4		Feet
107	Corrosion	span 4, lower web interior face at bent 4, painted over pitting [1ft x 3in x 1/16in]	2	1		Feet

**General Comments**

## Span 2 Left Bridge Rail

### Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	260	0	230	30	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Delamination/Spall	left curb 15ft from joint 5, impact damage [30ft] with spalls [up to 2ft x 5in x 1in deep]	3	30	30 Feet
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	85	Feet
333	Corrosion	along length of thrie beam at base of posts, active surface corrosion and some with pack rust	2	65	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	80	Feet

**General Comments**

**Span 2 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	260	0	260	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Corrosion	along length of thrie beam at base of posts, active surface corrosion and some with pack rust	2	65	Feet
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	85	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	110	Feet

**General Comments****Span 2 Floor Beam 1****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	12	0	11	1 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	first web stiffener from girder 2, painted over pitting [5in x full width x down to knife edge] with corrosion hole [1in diameter]	4	1	1 Feet
152	Corrosion	bottom flange at east catwalk connection, pack rust [up to 5/8in]	3	1	2 Feet
152	Corrosion	underside of bottom flange, painted over pitting on bottom flange [10ft x up to full width - avg rem 1/2in]	3	10	10 Feet

**General Comments**

web at 3ft centers near top flange, eight [8] drilled holes [5/8in diameter]

**Span 2 Floor Beam 6****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	22	1	1	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between floor beam bottom flange and catwalk hanger at girder 1, pack rust [1/8in] with section loss [up to 1/16in]	3	1	1 Feet
152	Corrosion	underside of bottom flange at catwalk connection, active corrosion with section loss [full width x 1in x up to 1/16in loss]	2	1	Feet

**General Comments**

**Span 2****Floor Beam 9****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	19	0	5	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between connection plate and web stiffener at girder 2, pack rust [up to 1/16in]	3	1	1 Feet
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 1/8in]	3	4	4 Feet

**General Comments****Span 2****Floor Beam 12****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	7	1	10	6 Feet
515	Steel Protective Coating	209	209	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	[PAR] lower web south face next to girder 1, active corrosion with section loss [7ft x 4in - avg rem 5/16in]	4	6	6 Feet
152	Corrosion	lower web South face next to girder 2, active corrosion with section loss [full height x up to 2in - avg rem 3/8in] with pack rust [up to 5/16in]	3	3	3 Feet
152	Corrosion	web next to web stiffener at girder 1, rust scale with section loss (full height x 2in x 1/16in loss)	3	1	1 Feet
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 1/4in]	3	4	4 Feet
152	Corrosion	between upper gusset plate and web stiffener at both girders, pack rust [up to 1/2in]	3	2	2 Feet
152	Corrosion	South side of connection plate at girder 2, active corrosion with section loss [6in x 2in x 1/8in loss]	3		1 Feet
152	Distortion	North side of connection plate at girder 1, bowed [1/2in]	2	1	Feet

**General Comments****Span 2****Floor Beam 15****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	12	10	2	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 3/16in]	3	2	2 Feet
152	Corrosion	left side of lower web, active corrosion with section loss [7ft x up to 4in x up to 1/16in loss]	2	7	Feet
152	Corrosion	underside of bottom flange and channel member at West catwalk, active corrosion with section loss, bottom flange [full width x 5in x 1/16in loss]; channel member [full height x 10in x 1/16in loss]	2	1	Feet
152	Corrosion	left side of top flange, active corrosion with section loss [2ft x up to 4in x up to 1/16in loss]	2	2	Feet

**General Comments****Span 2 Floor Beam 18****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	14	10	0	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 3/16in]	3		2 Feet
152	Corrosion	lower web both faces at East catwalk, active corrosion with section loss [5ft x 3in x up to 1/16in loss]	2	5	Feet
152	Corrosion	lower web both faces at West catwalk, active corrosion with section loss [5ft x 3in x up to 1/16in loss]	2	5	Feet

**General Comments****Span 2 Floor Beam 20****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	18	4	2	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 1/4in]	3	2	2 Feet
152	Corrosion	lower web above West catwalk, active corrosion with section loss [38in x up to 3in - avg rem 7/16in]	2	4	Feet

**General Comments****Span 2 Floor Beam 23****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	21	1	2	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 1/8in]	3	2	2 Feet
152	Corrosion	underside of bottom flange and channel member at West catwalk, active corrosion with section loss, bottom flange [full width x 5in x 1/16in loss]; channel member [full height x 10in x 1/16in loss]	2	1	Feet

**General Comments**

**Span 2****Floor Beam 26****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	19	1	4	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between floor beam and gusset plate at both girders, pack rust [up to 1/4in]	3		2 Feet
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 5/16in]	3	2	2 Feet
152	Corrosion	between web stiffener and gusset plate at both girders, pack rust [up to 1/2in]	3	2	2 Feet
152	Corrosion	underside of lateral bracing North side of connection plate at girder 1, active corrosion with section loss [4in x 3/4in x 1/8in loss]	3		1 Feet
152	Distortion	vertical angle channel between girders 1 and 2, bent at base [3/4in]	2	1	Feet

**General Comments****Span 2****Floor Beam 29****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	18	0	6	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	between gusset plate and web stiffener at both girders, pack rust [up to 3/16in]	3	2	2 Feet
152	Corrosion	underside of bottom flange next to channel member at West catwalk, active corrosion with section loss [full width x 1in x 1/8in loss]	3	1	1 Feet
152	Corrosion	between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 1/4in]	3	2	2 Feet
152	Corrosion	web stiffener at base, active corrosion with section loss [3-1/2in x full width x 1/4in loss]	3	1	1 Feet

**General Comments****Span 2****Floor Beam 32****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	0	0	3	21 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	[PAR] lower web North face, active corrosion with section loss [full length x 2in - avg rem 3/8in]	4	21	21 Feet
152	Corrosion	angle bracket above West catwalk, active corrosion with section loss [full width x full height x up to 3/16in loss]	3	1	1 Feet
152	Corrosion	between floor beam bottom flange and catwalk hanger at girder 2, pack rust [up to 5/16in]	3	2	2 Feet

**General Comments**

**Span 2****Floor Beam 35****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	2	22	0	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	lower web, active corrosion with section loss [full length x 1-1/2in - avg rem 7/16in]	2	22	Feet

**General Comments****Span 2****Floor Beam 37****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	0	16	8	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	lower web north face next to first web stiffener from girder 2, pitting (8ft x 3in x 1/16in loss)	3	8	8 Feet
152	Damage	web at 3ft centers near top flange, (8) drilled holes (5/8in diameter)	2	6	Feet
152	Corrosion	underside of bottom flange at center, painted over pitting [10ft x up to full width x up to 1/32in]	2	10	Feet

**General Comments**

web at 3ft centers near top flange, eight [8] drilled holes [5/8in diameter]

**Span 2****Stringer 2****W Beam Stringer**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
113	Steel Stringer	850	847	0	2	1 Feet
515	Steel Protective Coating	170	170	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
113	Connection	[PAR] at floor beam 33, missing anchor bolts on East face and two cracked tack welds [full length]	4	1	1 Feet
113	Corrosion	underside of bottom flange North side of floor beam 29, section loss [4in x full width x 1/32in loss]	3	1	1 Feet
113	Corrosion	underside of bottom flange North side of floor beam 9, rust scale with section loss [6in x full width x 1/16in loss]	3	1	1 Feet
113	Corrosion	underside of bottom flange South side of floor beam 9, active corrosion with section loss [2in x full width x 1/16in loss]	3		1 Feet

**General Comments****Span 2****Expansion Joint 2****Prefabricated Joint with Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
303	Assembly Joint with Seal	28	0	21	1	6 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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303	Seal Adhesion	along length of joint, missing joint sealant material [up to 28ft]	4	6	28	Feet
303	Metal Deterioration or Damage	in left travel lane at yellow line, damage/gouge [8in x 6in x up to 1/4in deep]	3	1	1	Feet
303	Debris Impaction	at both shoulders, debris accumulation [up to 3ft]	2	4		Feet
303	Metal Deterioration or Damage	along far edge, rubber separated from metal	2	10		Feet
303	Metal Deterioration or Damage	at both sides of joint, missing plug covers [up to full length]	2	7		Feet

**General Comments****Span 3****Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	11,447	6,227	5,158	62	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	throughout underside of deck adjacent to girders, multiple spalls [up to 1ft x 8in x up to 1-1/2in] with exposed rusted rebar [no loss]	3	50	50 Square Feet
12	Delamination/Spall	underside of deck adjacent to girder 1 above floor beam 17, spall [8in x 6in x 1in deep]	3	1	1 Square Feet
12	Delamination/Spall	underside of deck adjacent to girder 2 above floor beam 19, spall [15in x 6in x 1in deep]	3	2	2 Square Feet
12	Delamination/Spall	underside east overhang near midspan, spall [1ft diameter x 1in deep] with exposed rusted rebar [no loss]	3	1	1 Square Feet
12	Delamination/Spall	underside left overhang at web stiffener 21, spall/delamination [7ft-10in x 13in x 1-1/4in deep] with pack rust between top flange and deck [1/4in]	3	8	8 Square Feet
12	Efflorescence/Rust Staining	along underside both overhangs, multiple transverse cracks [up to full width x hairline] with efflorescence	2	40	Square Feet
12	Cracking (RC and Other)	throughout span, multiple longitudinal and transverse cracks [up to 30ft x 0.03in]	2	3,400	3,400 Square Feet
12	Efflorescence/Rust Staining	throughout underside of deck, multiple transverse cracks [up to full length x hairline] with efflorescence	2	1,145	Square Feet
12	Patched Areas	throughout underside of deck, multiple sound patches [up to 3ft x 3ft]	2	573	Square Feet

**General Comments****Span 3****Left Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	331	0	331	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	110	Feet
333	Cracking (RC and Other)	50ft from bent 3 at curb, transverse crack [full width x 0.012in]	2	1	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	195	Feet
333	Distortion	thrie beam at bent 2, impact damage [25ft x up to 6in deflection]	2	25	Feet

**General Comments**



**Span 3 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	331	0	331	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	221	Feet
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	110	Feet

**General Comments****Span 4 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	9,015	4,560	4,293	162	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	northbound right lane next to patched area at 20ft from bent 4, multiple transverse and longitudinal cracks (up to 4ft x 1/16in)	3	30	30 Square Feet
12	Delamination/Spall	throughout underside of deck adjacent to girders, multiple spalls [up to 5in x 3in x 1in deep] with exposed rusted rebar [no loss]	3	50	50 Square Feet
12	Exposed Rebar	[PAR] underside of deck at far end, spall [12in x 12in x 3in deep] with exposed transverse and longitudinal rebar [loss < 1/16in]	3	1	1 Square Feet
12	Delamination/Spall	underside East overhang 15ft from bent 4, spall [19in x 4in x 1in deep] with exposed rusted rebar [no loss]	3	1	1 Square Feet
12	Efflorescence/Rust Staining	underside of deck at far end, multiple transverse and longitudinal cracks [up to 8ft x 0.03in] with efflorescence and rust stain	3	80	80 Square Feet
12	Cracking (RC and Other)	throughout span, multiple longitudinal and transverse cracks [up to 30ft x 0.03in]	2	2,700	2,700 Square Feet
12	Delamination/Spall	adjacent to repairs at far end, multiple delaminations [up to 5.5ft x 7ft]	2	80	80 Square Feet
12	Efflorescence/Rust Staining	along underside both overhangs, multiple transverse cracks [full width x hairline] with efflorescence	2	35	Square Feet
12	Patched Areas	right travel lane at far end, multiple sound patches/repairs [up to 7ft x 12ft]	2	125	Square Feet
12	Patched Areas	throughout underside of deck, multiple sound patches [up to 3ft x 3ft]	2	451	Square Feet
12	Efflorescence/Rust Staining	throughout underside of deck, multiple transverse cracks [up to full width x hairline] with efflorescence	2	902	Square Feet

**General Comments****Span 4 Left Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	260	0	260	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Distortion	thrie beam 60ft from bent 3, impact damage [20ft x up to 6in deflection]	2	20	Feet
333	Distortion	thrie beam at joint 3, impact damage with deflection [45ft x up to 6in deflection]	2	45	Feet
333	Patched Area	curb at midspan, sound patch [8ft x 2.5in]	2	8	Feet

Structure Number: **440108**Inspection Date: **05/22/2019**

333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	85	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	82	Feet
333	Distortion	thrie beam at midpan, impact damage [20ft x up to 6in deflection]	2	20	Feet

**General Comments****Span 4 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	260	0	260	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	85	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	175	Feet

**General Comments****Span 5 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	3,460	365	3,041	54	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	underside East overhang at bent 4, spall [36in x 6in x 8in deep]	3	3	3 Square Feet
12	Delamination/Spall	underside East overhang at midspan, spall [20in x up to 6in x 1in deep] with exposed rusted rebar [no loss]	3	1	1 Square Feet
12	Delamination/Spall	throughout underside of deck adjacent to girders, multiple spalls [up to 15in x 9in x 1-1/2in deep]	3	50	50 Square Feet
12	Cracking (RC and Other)	along right lane in left wheel path, multiple longitudinal cracks [up to 5ft x 0.02in]	2	80	80 Square Feet
12	Cracking (RC and Other)	throughout span, multiple transverse cracks [up to 10ft x up to 0.02in]	2	1,400	1,400 Square Feet
12	Cracking (RC and Other)	throughout span, multiple transverse cracks [up to 10ft x 0.02in]	2	1,000	1,000 Square Feet
12	Cracking (RC and Other)	throughout underside of deck, multiple transverse cracks [up to full width x 0.012in], some with efflorescence	2	346	346 Square Feet
12	Delamination/Spall	right lane 34ft from joint 5, spall [3in x 1.5in x 1/2in deep]	2	1	1 Square Feet
12	Efflorescence/Rust Staining	along underside both overhangs, multiple transverse cracks [full width x hairline] with efflorescence	2	25	Square Feet
12	Patched Areas	throughout underside of deck, multiple sound patches [up to 3ft x 3ft]	2	173	Square Feet
12	Patched Areas	underside West overhang at midspan, sound patch [43in x full width]	2	16	Square Feet

**General Comments**

**Span 5****Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	99	67	30	2	0 Feet
515	Steel Protective Coating	3,559	3,449	80	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	between connection plate and end diaphragm at bent 4, pack rust [up to 3/8in]	3		1 Feet
107	Corrosion	between lateral bracing and connection plate at floor beam 1, pack rust [up to 1/4in]	3	1	1 Feet
107	Corrosion	end diaphragm lower member south face at end bent 2 next to girder 2, pitting [6ft x 2in x up to 1/16in]	3	1	1 Feet
107	Corrosion	between connection plate and lateral bracing at End Bent 2, pack rust [up to 1/8in]	3		1 Feet
107	Connection	poor quality welds found throughout longitudinal and vertical web stiffeners	2	30	30 Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [flakes > 1/2in diameter]	4	30	30 Square Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [granular texture]	2	80	80 Square Feet

**General Comments**

**Span 5****Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	99	61	30	8	0 Feet
515	Steel Protective Coating	3,559	3,449	80	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	between connection plate and end diaphragm at bent 4, pack rust [up to 1/4in]	3	1	1 Feet
107	Corrosion	between lateral bracing and connection plate at floor beam 5, pack rust [up to 1/4in]	3	2	2 Feet
107	Corrosion	between end diaphragm and connection plate near end bent 1, pack rust [up to 3/16in]	3	2	2 Feet
107	Corrosion	between lateral bracing and connection plate at floor beam 1, pack rust [up to 3/8in]	3	1	1 Feet
107	Corrosion	lower web interior face at bent 4, painted over pitting [16in x 7in x 1/16in]	3	2	2 Feet
107	Connection	poor quality welds found throughout longitudinal and vertical web stiffeners	2	30	30 Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [flakes > 1/2in diameter]	4	30	30 Square Feet
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	along length of beam, areas of patina failure [granular texture]	2	80	80 Square Feet

**General Comments**

**Span 5 Left Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	100	0	100	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Corrosion	along length of thrie beam at base of posts, active surface corrosion and some with pack rust	2	7	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	60	Feet
333	Patched Area	curb adjacent to joint 5, sound patches [up to 14in x up to 12in x up to 9in]	2	3	Feet
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	30	Feet

**General Comments****Span 5 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	100	0	100	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Cracking (RC and Other)	along curb, multiple vertical cracks [full height x up to 0.03in]	2	30	Feet
333	Distortion	along length of thrie beam, impact damage [full length] with gouges and rips	2	63	Feet
333	Corrosion	along length of thrie beam at base of posts, active surface corrosion and some with pack rust	2	7	Feet

**General Comments****Span 5 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	5	4	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	pack rust [up to 1/16in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with pack rust	4	1	1 Square Feet

**General Comments**

**Span 5 Floor Beam 1****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	0	24	0	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Corrosion	lower web south face next to first web stiffener from girder 1, painted over pitting [8ft x 3in x 1/32in]	2	7	Feet
152	Corrosion	underside of bottom flange at center, painted over pitting [10ft x up to full width x up to 1/16in]	2	10	Feet
152	Corrosion	lower web south face next to first web stiffener from girder 2, painted over pitting [8ft x 3in x 1/16in]	2	7	Feet

**General Comments**

web at 2ft centers near top flange, twelve [12] drilled holes [5/8in diameter]

**Span 5 Floor Beam 2****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	23	1	0	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Distortion	diaphragm at West diagonal, bent [up to 2in]	2	1	Feet

**General Comments****Span 5 Floor Beam 3****W Type Steel Floor Beam**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
152	Steel Floor Beam	24	23	1	0	0 Feet
515	Steel Protective Coating	206	206	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
152	Distortion	diaphragm at West diagonal, bent [up to 1-1/2in]	2	1	Feet

**General Comments****Span 5 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	5	4	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	pack rust [up to 1/16in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with pack rust	4	1	1 Square Feet

**General Comments**

**Span 5 Expansion Joint 5****Prefabricated Joint with Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
303	Assembly Joint with Seal	28	0	21	1	6 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
303	Seal Adhesion	along length of joint, mssing joint sealant material [up to 20ft] with vertical movement from live load and adjacent edge spalling [up to 12in x 1.5in]	4	6	27 Feet
303	Metal Deterioration or Damage	[PAR] right travel lane left wheel path in aluminum, two [2] cracks [up to 5in x up to 1/16in]	3	1	1 Feet
303	Damage	both sides of joint, missing plug covers [up to full length]	2	3	Feet
303	Debris Impaction	at both shoulders, debris accumulation [up to 18in]	2	3	Feet
303	Metal Deterioration or Damage	along far edge, rubber missing and separated from metal	2	15	Feet

**General Comments****Span 5 Expansion Joint 6****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
302	Compression Joint Seal	28	5	0	17	6 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
302	Seal Adhesion	along joint, areas of seal adhesion failure [up to 2.5ft x up to full depth]	4	6	6 Feet
302	Adjacent Deck or Header	at both headers throughout both lanes, multiple edge spalls [up to 2.5ft x 2in x 1in] at areas of repair	3	17	17 Feet

**General Comments****End Bent 1 Abutment****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	60	53	5	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Delamination/Spall	top of backwall at right side adjacent to wingwall, spall [9in x 9in x 3in deep], similar at left side	3	2	2 Feet
215	Cracking (RC and Other)	left side behind beam 1 bearing, diagonal crack [7ft x up to 0.012in]	2	4	Feet
215	Cracking (RC and Other)	at middle of backwall, vertical crack [full height x up to 0.02in]	2	1	Feet

**General Comments****Bent 1 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	34	30	4	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**234** Damage underside next to column on East side, rust scale [15in x 18in] on steel encasement, similar at all corners adjacent to pile 2 4 4 Feet

**General Comments**

top of cap adjacent to girder 2, debris accumulation [10ft x up to full width]

**Bent 1 Pile 1**

**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Damage	South face at base, rust scale with section loss [up to 1/2 circumference x 16in x 1/16in loss]	3	1	1 Each

**General Comments**

**End Bent 1 Cap 1**

**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	36	36	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

top of cap, debris accumulation [18ft x up to 2ft]

**Bent 2 Pile 1**

**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

around circumference of pile, vegetation growth

**End Bent 2 Cap 1**

**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	36	36	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

top of cap, debris accumulation [18ft x up to 2ft]

**Bent 3****Pile 1****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

around circumference of pile, vegetation growth

**Bent 4****Pile 1****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

around circumference of pile, vegetation growth

**Approach 1****Reinforced Concrete Approach Slab**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
321	Reinforced Concrete Approach Slabs	416	401	3	12	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
321	Cracking (RC and Other)	Northbound right lane at center, longitudinal crack [full length x 1/8in]	3	12	12 Square Feet
321	Cracking (RC and Other)	in right travel lane extending from joint, longitudinal crack [3ft x 0.02in]	2	3	3 Square Feet
321	Cracking (RC and Other)	left lane in both wheel paths, multiple longitudinal cracks [up to full length x hairline]	1	24	Square Feet

**General Comments****Approach 2****Reinforced Concrete Approach Slab**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
321	Reinforced Concrete Approach Slabs	416	361	48	7	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
321	Delamination/Spall	along far edge of slab, multiple edge spalls [up to 6in x 1in x 2in deep] with adjacent potholes [up to 3ft x 5in x 5in deep]	3	7	7 Square Feet
321	Settlement	at joint 5, settlement [full width x up to 3/8in]	2	24	Square Feet
321	Cracking (RC and Other)	throughout slab, multiple longitudinal cracks [full length x up to 1/32in]	2	24	24 Square Feet

**General Comments**



## Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	3460
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	99
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	99
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	100
Span 1	Expansion Joint 1	Compression Seal	Compression Joint Seal	28
Span 1	Beam 1 Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Beam 1 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 2 Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Beam 2 Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Floor Beam 1	W Type Steel Floor Beam	Steel Floor Beam	24
Span 1	Floor Beam 2	W Type Steel Floor Beam	Steel Floor Beam	24
Span 1	Floor Beam 3	W Type Steel Floor Beam	Steel Floor Beam	24
Span 1	Floor Beam 4	W Type Steel Floor Beam	Steel Floor Beam	24
Span 1	Floor Beam 5	W Type Steel Floor Beam	Steel Floor Beam	24
Span 1	Stringer 1	W Beam Stringer	Steel Stringer	98
Span 1	Stringer 2	W Beam Stringer	Steel Stringer	98
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	9015
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	851
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	851
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	260
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	260
Span 2	Expansion Joint 2	Prefabricated Joint with Seal	Assembly Joint with Seal	28
Span 2	Beam 1 Far Bearing	Rocker Bearing	Movable Bearing	1
Span 2	Beam 1 Near Bearing	Rocker Bearing	Movable Bearing	1
Span 2	Beam 1 Intermediate Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 1 Intermediate Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 2 Intermediate Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 2 Intermediate Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 2 Near Bearing	Rocker Bearing	Movable Bearing	1
Span 2	Beam 2 Far Bearing	Rocker Bearing	Movable Bearing	1
Span 2	Floor Beam 1	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 2	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 3	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 4	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 5	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 6	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 7	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 8	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 9	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 10	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 11	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 12	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 13	W Type Steel Floor Beam	Steel Floor Beam	24

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Floor Beam 14	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 15	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 16	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 17	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 18	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 19	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 20	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 21	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 22	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 23	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 24	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 25	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 26	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 27	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 28	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 29	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 30	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 31	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 32	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 33	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 34	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 35	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 36	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Floor Beam 37	W Type Steel Floor Beam	Steel Floor Beam	24
Span 2	Stringer 1	W Beam Stringer	Steel Stringer	850
Span 2	Stringer 2	W Beam Stringer	Steel Stringer	850
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	11447
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	331
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	331
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	9015
Span 4	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	260
Span 4	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	260
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	3460
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	99
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	99
Span 5	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	100
Span 5	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	100
Span 5	Expansion Joint 6	Compression Seal	Compression Joint Seal	28
Span 5	Expansion Joint 5	Prefabricated Joint with Seal	Assembly Joint with Seal	28
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Floor Beam 1	W Type Steel Floor Beam	Steel Floor Beam	24
Span 5	Floor Beam 2	W Type Steel Floor Beam	Steel Floor Beam	24

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 5	Floor Beam 3	W Type Steel Floor Beam	Steel Floor Beam	24
Span 5	Floor Beam 4	W Type Steel Floor Beam	Steel Floor Beam	24
Span 5	Floor Beam 5	W Type Steel Floor Beam	Steel Floor Beam	24
Span 5	Stringer 1	W Beam Stringer	Steel Stringer	98
Span 5	Stringer 2	W Beam Stringer	Steel Stringer	98
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1

# General Inspection Notes

Bent 1                      Cap 1  
top of cap, debris accumulation [18ft x up to 2ft]

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Bent 2                      Cap 1  
top of cap, debris accumulation [18ft x up to 2ft]

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Bent 2                      Pile 1  
around circumference of pile, vegetation growth

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Bent 3                      Pile 1  
around circumference of pile, vegetation growth

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Bent 4                      Pile 1  
around circumference of pile, vegetation growth

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# National Bridge and NC Inspection Items

Structure Number: 440108

Inspection Date: 05/22/2019

## National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	7
Item 61: Channel and Channel Protection	0 - 9 , N	9
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	9
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

## NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	29393	3376
Drainage System	G, F, P, or C	F	300	3332
Utilities	G, F, P, or C	G		
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	F	100	3350
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	F		
Superstructure Paint Code		X		

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	176
Traffic Control Time	Hours	32
Snooper Time	Hours	32
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	Y

# National Bridge and NC SMU Inspection Item Details

**Structure Number:** 440108

**Inspection Date:** 05/22/2019

<b>Item</b>	Other Equipment Used	<b>Grade</b> Y	<b>Maint Code</b>	<b>Qty.</b> 0
<b>Details</b>	climbing equipment			
<b>Item</b>	Deck Debris	<b>Grade</b> F	<b>Maint Code</b> 3376	<b>Qty.</b> 29393
<b>Details</b>	along length of right shoulder, deck debris accumulation including large car parts			
<b>Item</b>	Drainage System	<b>Grade</b> F	<b>Maint Code</b> 3332	<b>Qty.</b> 300
<b>Details</b>	along length of structure, debris accumulation fully blocking drains girder 2 downspout South of floor beam 8, lower connection bolt missing girder 2 downspout South of floor beam 7, loose bottom connection bolt with fretting rust			
<b>Item</b>	Utilities	<b>Grade</b> G	<b>Maint Code</b>	<b>Qty.</b> 0
<b>Details</b>	span 2 beam 1 between floor beam 3 and 4, attached utility broken and detached			
<b>Item</b>	Wingwalls	<b>Grade</b> F	<b>Maint Code</b> 3350	<b>Qty.</b> 100
<b>Details</b>	Southwest wingwall: left side at near end, hairline map cracking with efflorescence [8ft x 2ft] Southwest wingwall: left side 2ft below top edge, horizontal crack [18.5ft x 0.012in] Southwest wingwall: left side 9ft from far end, vertical crack [5ft x hairline] with efflorescence Southwest wingwall: along form lines, exposed coarse aggregate, similar at Southeast wingwall Southwest wingwall: left side at far end, three [3] spalls [up to 5in x 2in x 1/4in deep] with exposed rusted reinforcing [no loss] Southwest wingwall: at face of far end and sides, wrap around horizontal crack [4.5ft x up to 0.015in], similar at Southeast wingwall Southeast wingwall: right face at far end and mid length, two [2] vertical cracks [up to 3t x hairline] with efflorescence build-up			



Span 1 Deck: left lane at far end adjacent to yellow line, sound repair [12ft x 1.5ft]



Span 1 Deck: along underside of both overhangs, multiple spalls [up to 29in x 29in x 2in deep] with exposed rusted reinforcing [loss up to 1/16in]

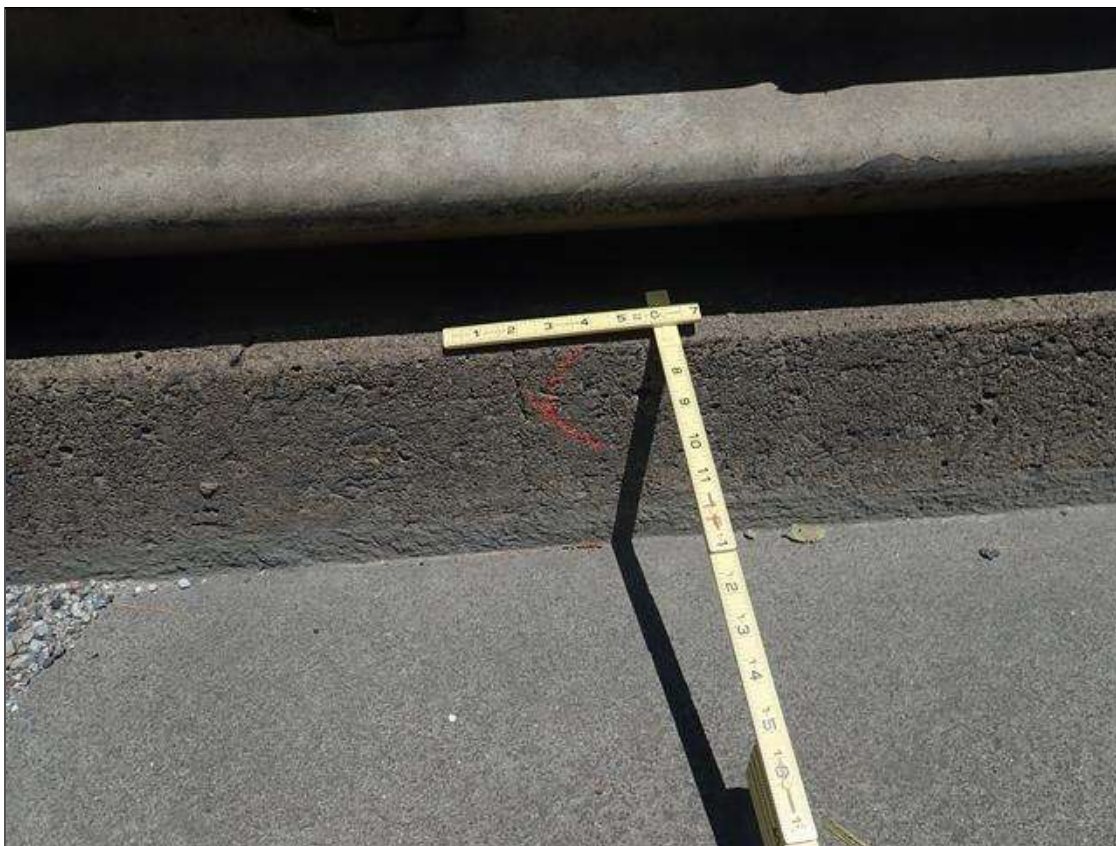


Span 1 Deck: underside of East overhang at End Bent 1, spall [18in x 9in x 1in deep] with exposed rusted reinforcing [no loss]



Span 1 Deck: between underside of deck and backwall, gap [up to 3/8in x full length]





Span 1 Left Bridge Rail: along curb, multiple vertical cracks [full height x up to 0.03in]



Span 1 Right Bridge Rail: along length of thrie beam at base of posts, active surface corrosion and some with pack rust



Span 4 Left Bridge Rail: thrie beam at joint 3, impact damage with deflection [45ft x up to 6in deflection]



Span 5 Left Bridge Rail: curb adjacent to joint 5, sound patches [up to 14in x up to 12in x up to 9in]



Span 2 Left Bridge Rail: left curb 15ft from joint 5, impact damage [30ft] with spalls [up to 2ft x 5in x 1in deep]



Span 4 Left Bridge Rail: curb at midspan, sound patch [8ft x 2.5in]



Span 3 Left Bridge Rail: 50ft from bent 3 at curb, transverse crack [full width x 0.012in]



Span 1 Left Bridge Rail: over end bent along joint between wingwall and curb, loss of seal adhesion [up to 4ft] similar at all corners



Span 1 Left Bridge Rail: over end bent along joint between wingwall and curb, loss of seal adhesion [up to 4ft] similar at all corners



Span 1 Left Bridge Rail: over end bent along joint between wingwall and curb, loss of seal adhesion [up to 4ft] similar at all corners



Span 1 Left Bridge Rail: along length of thrie beam, impact damage [full length] with gouges and rips



Span 2 Deck: throughout span, multiple transverse cracks [up to full width x 1/16in]



Span 2 Deck: throughout span, multiple transverse cracks [up to full width x 1/16in]



Span 2 Deck: throughout span at random locations, multiple delaminations [up to 7ft x 4ft]



Span 2 Deck: throughout span, multiple longitudinal cracks [up to 30ft x 0.03in]



Span 2 Deck: right travel lane 3ft from joint 2, patch [14in x 20in] with edge spalling [up to 12in x 3in x 1in deep]





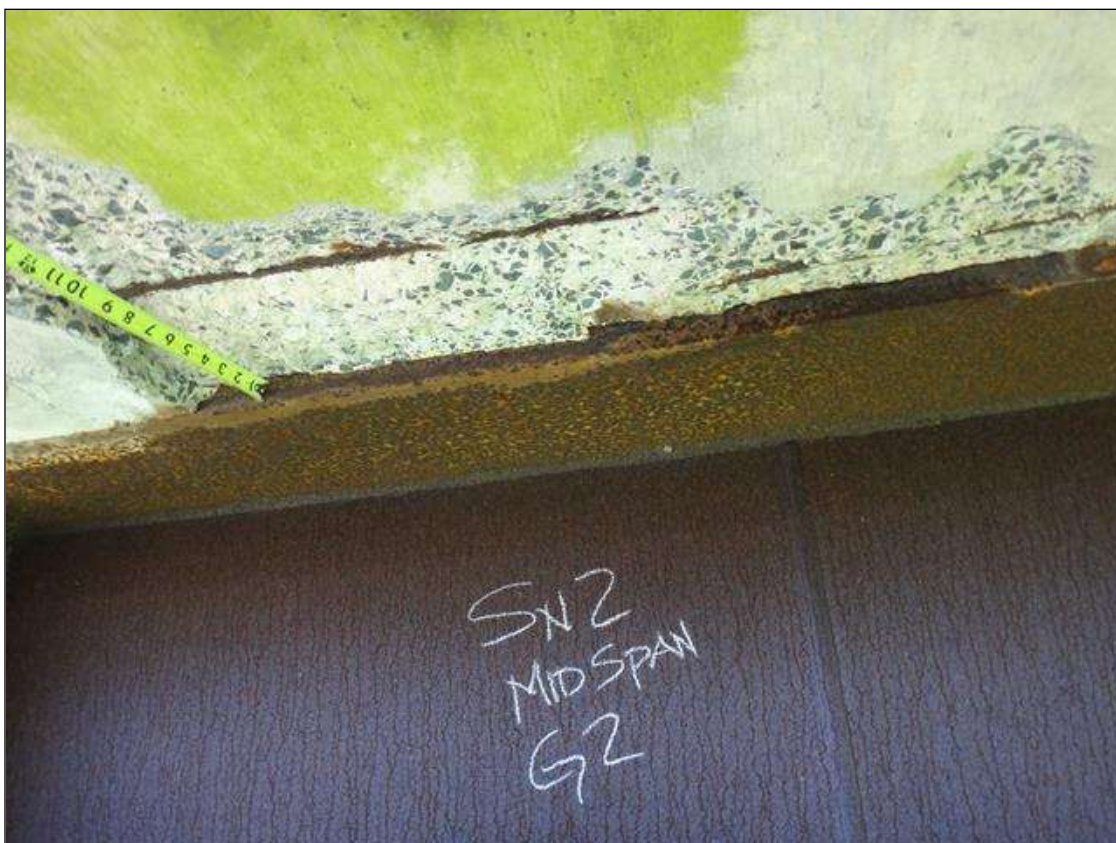
Span 2 Deck: left travel lane in right wheel path extending from joint 2, longitudinal crack [14in x 0.05in], extends down into joint



Drainage System: along length of structure, debris accumulation fully blocking drains



Drainage System: along length of structure, debris accumulation fully blocking drains



Span 2 Deck: underside West overhang at midspan, spall [45in x 18in x 1-1/2in deep] with exposed rusted rebar



Span 2 Deck: underside East overhang scattered throughout, multiple transverse cracks [full width x hairline] with efflorescence, West overhang similar



Span 2 Deck: underside East overhang scattered throughout, multiple transverse cracks [full width x hairline] with efflorescence, West overhang similar



Span 3 Deck: underside left overhang at web stiffener 21, spall/delamination [7ft-10in x 13in x 1-1/4in deep] with pack rust between top flange and deck [1/4in]



Span 3 Deck: underside left overhang at web stiffener 21, spall/delamination [7ft-10in x 13in x 1-1/4in deep] with pack rust between top flange and deck [1/4in]



Span 4 Deck: right travel lane at far end, multiple sound patches/repairs [up to 7ft x 12ft]



Span 4 Deck: adjacent to repairs at far end, multiple delaminations [up to 5.5ft x 7ft]



Span 4 Deck: underside of deck at far end, multiple transverse and longitudinal cracks [up to 8ft x 0.03in] with efflorescence and rust stain



Span 4 Deck: [PAR] underside of deck at far end, spall [12in x 12in x 3in deep] with exposed transverse and longitudinal rebar [loss < 1/16in]



Span 5 Deck: underside West overhang at midspan, sound patch [43in x full width]



Span 1 Beam 1: along length of bottom flange and cover plate, pack rust [up to 7/16in]



Span 1 Beam 1: along length of exterior face at lower web and web stiffener, active corrosion with section loss [up to 3in high x 1/16in loss]



Span 1 Beam 2: lower web along length of exterior face, active corrosion with section loss [85ft x up to 2-1/2in x up to 3/32in deep]





Span 1 Beam 2: lower web along length of exterior face, active corrosion with section loss [85ft x up to 2-1/2in x up to 3/32in deep]



Span 1 Beam 2: [PAR] at bent 1, arrested metal loss, lower web [18in x 3in - avg rem 1/4in]; bottom flange [18in x 12in - avg rem 7/8in]



Span 1 Beam 2 Near Bearing: active corrosion with section loss [loss up to 1/8in] with pack rust [1/2in]



Span 1 Beam 2 Near Bearing: active corrosion with section loss [loss up to 1/8in] with pack rust [1/2in]



Span 1 Beam 2 Near Bearing: active corrosion with section loss [loss up to 1/8in] with pack rust [1/2in]



Span 5 Beam 2 Far Bearing: pack rust [up to 1/16in]



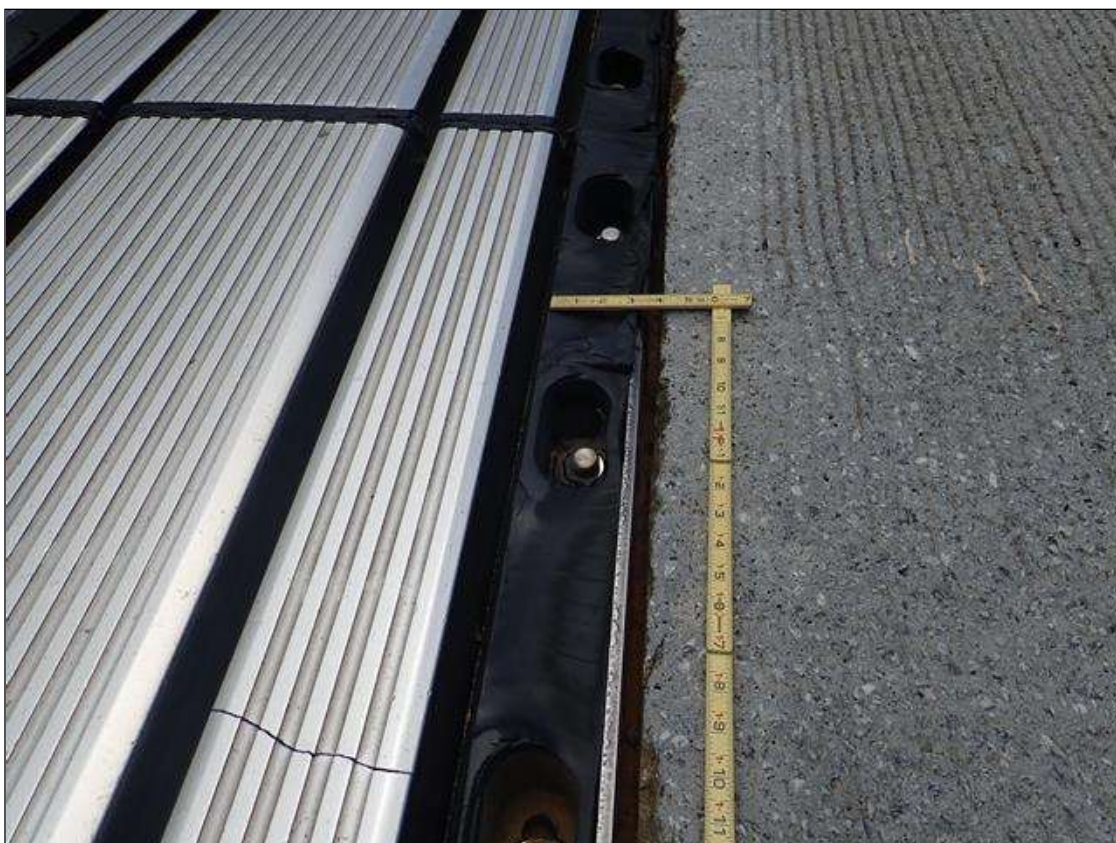
Span 5 Deck: underside East overhang at bent 4, spall [36in x 6in x 8in deep]



Expansion Joint 5 : at both shoulders, debris accumulation [up to 18in]



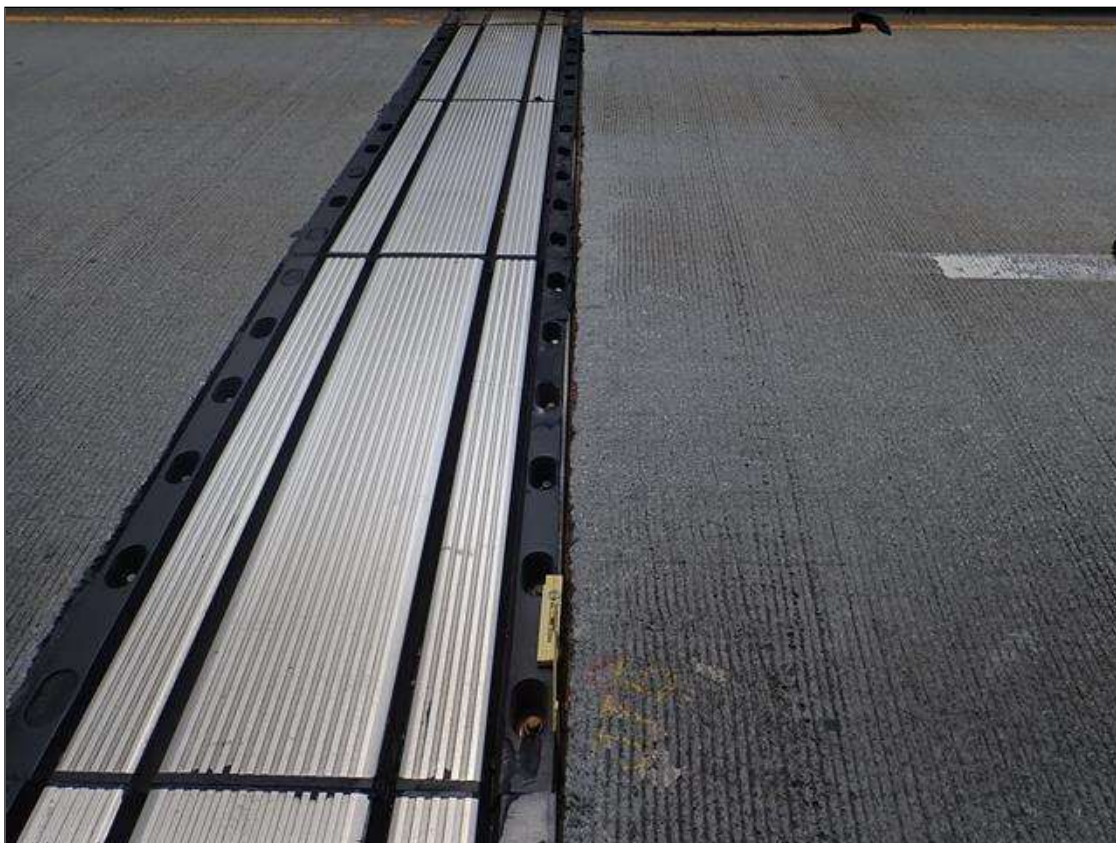
Expansion Joint 5 : both sides of joint, missing plug covers [up to full length]



Expansion Joint 5 : along far edge, rubber missing and separated from metal



Expansion Joint 5 : [PAR] right travel lane left wheel path in aluminum, two [2] cracks [up to 5in x up to 1/16in]



Expansion Joint 5 : along length of joint, missing joint sealant material [up to 20ft] with vertical movement from live load and adjacent edge spalling [up to 12in x 1.5in]



Expansion Joint 5 : along length of joint, missing joint sealant material [up to 20ft] with vertical movement from live load and adjacent edge spalling [up to 12in x 1.5in]



Expansion Joint 6 : along joint, areas of seal adhesion failure [up to 2.5ft x up to full depth]

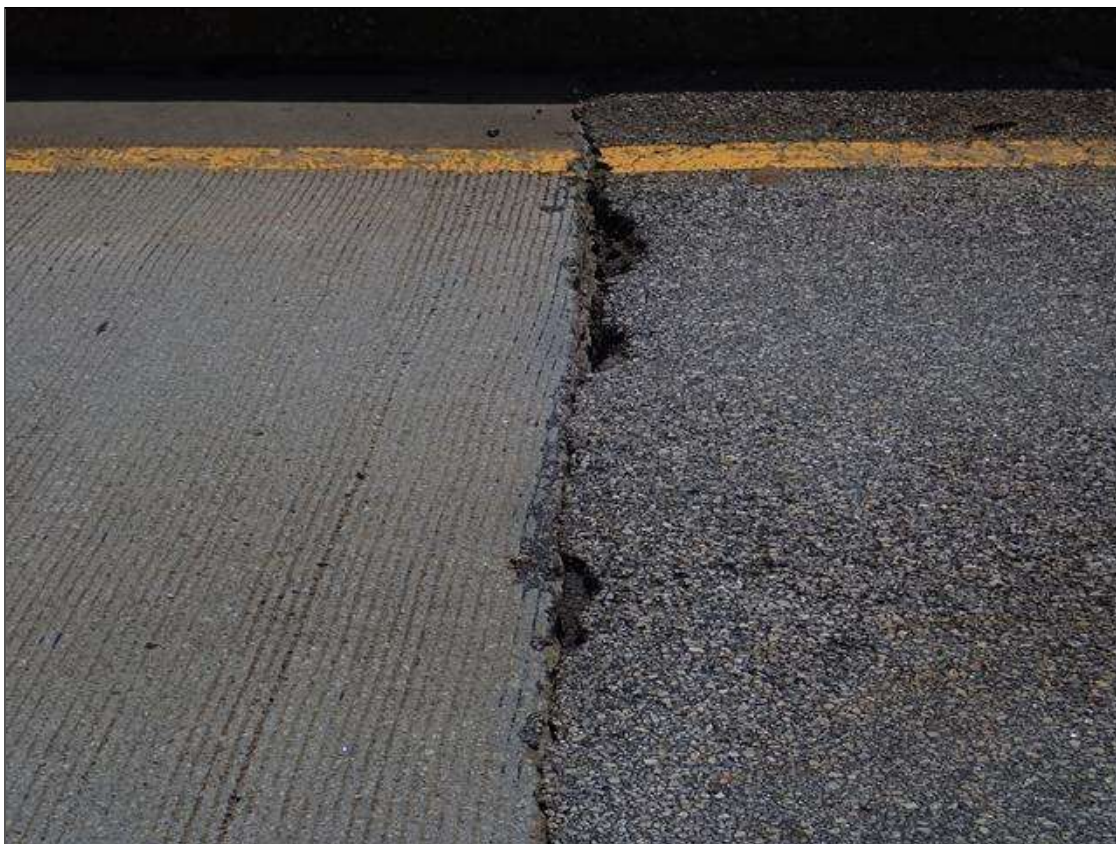


Approach 1: Northbound right lane at center, longitudinal crack [full length x 1/8in]



Approach 1: in right travel lane extending from joint, longitudinal crack [3ft x 0.02in]





Approach 2: along far edge of slab, multiple edge spalls [up to 6in x 1in x 2in deep] with adjacent potholes [up to 3ft x 5in x 5in deep]



Southwest wingwall: left side at near end, hairline map cracking with efflorescence [8ft x 2ft]



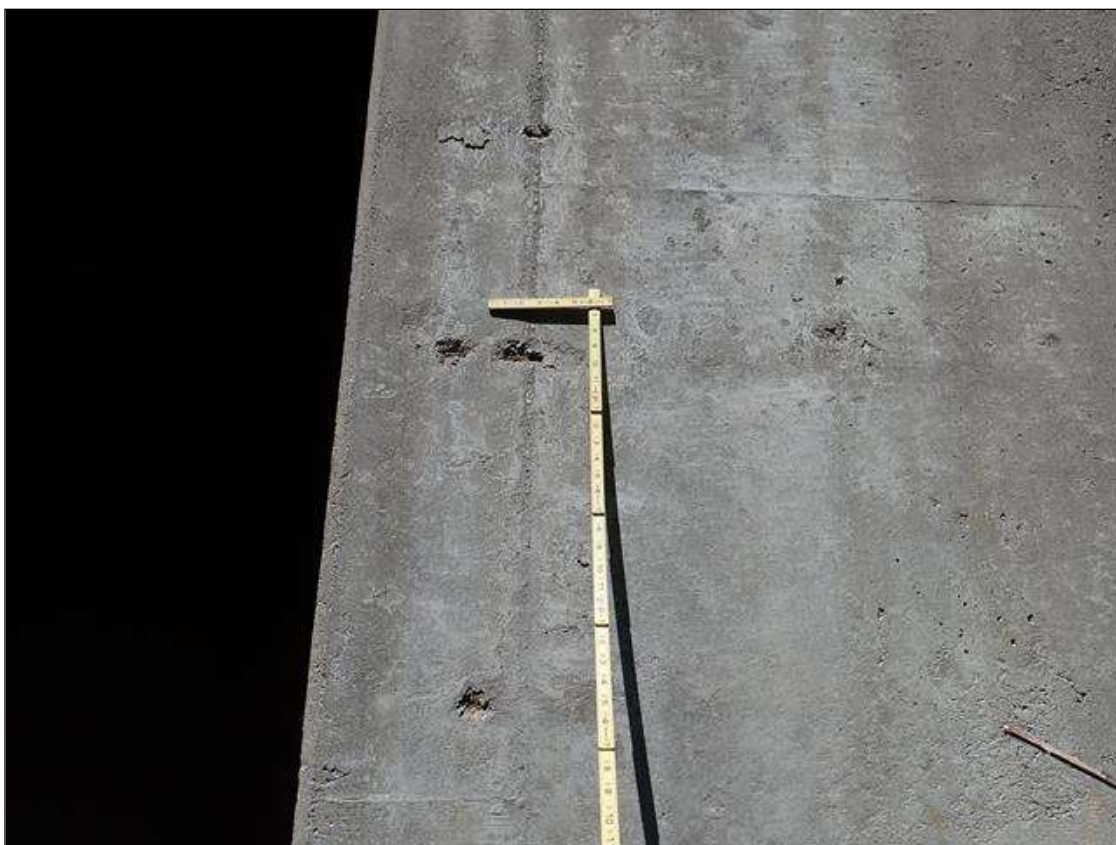
Southwest wingwall: left side 2ft below top edge, horizontal crack [18.5ft x 0.012in]



Southwest wingwall: left side 9ft from far end, vertical crack [5ft x hairline] with efflorescence



Southwest wingwall: along form lines, exposed coarse aggregate, similar at Southeast wingwall



Southwest wingwall: left side at far end, three [3] spalls [up to 5in x 2in x 1/4in deep] with exposed rusted reinforcing [no loss]



Southwest wingwall: at face of far end and sides, wrap around horizontal crack [4.5ft x up to 0.015in], similar at Southeast wingwall



Southeast wingwall: right face at far end and mid length, two [2] vertical cracks [up to 3t x hairline] with efflorescence build-up



End Bent 1 Abutment/Backwall : at middle of backwall, vertical crack [full height x up to 0.02in]



End Bent 1 Abutment/Backwall : left side behind beam 1 bearing, diagonal crack [7ft x up to 0.012in]



End Bent 1 Abutment/Backwall : top of backwall at right side adjacent to wingwall, spall [9in x 9in x 3in deep], similar at left side



Expansion Joint 2 : at both sides of joint, missing plug covers [up to full length]



Expansion Joint 2 : along length of joint, missing joint sealant material [up to 28ft]



Expansion Joint 2 : at both shoulders, debris accumulation [up to 3ft]



Expansion Joint 2 : in left travel lane at yellow line, damage/gouge [8in x 6in x up to 1/4in deep]



Expansion Joint 1 : at right shoulder, debris accumulation [14in]





Expansion Joint 1 : at both headers of right lane, multiple edge spalls [up to 6in x 1in x 1in deep] at area of repair



Expansion Joint 1 : along joint in right lane, seal adhesion failure [up to 2in deep]



Expansion Joint 1 : at 5ft from East curb, hole in joint material [1-1/2in x 1/2in x 1-3/4in deep]



Utilities: span 2 beam 1 between floor beam 3 and 4, attached utility broken and detached



Utilities: span 2 beam 1 between floor beam 3 and 4, attached utility broken and detached



Span 2 Beam 1: span 3, lower web and splice plate both faces at splice plate 11, active corrosion with section loss, web [6.5ft x 3in - avg rem 1/2in] with areas of 3/16in loss [avg rem 3/8in]; plate [full width x 1-1/2in x 1/16in loss], and lower bolts [10% loss]



Span 2 Beam 1: span 3, lower web and splice plate both faces at splice plate 11, active corrosion with section loss, web [6.5ft x 3in - avg rem 1/2in] with areas of 3/16in loss [avg rem 3/8in]; plate [full width x 1-1/2in x 1/16in loss], and lower bolts [10% loss]



Span 2 Beam 1: span 3, lower web and splice plate both faces at splice plate 11, active corrosion with section loss, web [6.5ft x 3in - avg rem 1/2in] with areas of 3/16in loss [avg rem 3/8in]; plate [full width x 1-1/2in x 1/16in loss], and lower bolts [10% loss]



Span 2 Beam 1: span 4, lower web and splice plate exterior face at splice plate 16, active corrosion with section loss, web [4ft x 2in - avg rem 7/16in]; top of plate [full width x 1in x 1/16in loss]



Span 2 Beam 1: [PAR] span 2, exterior and interior of lower web at splice 5, active corrosion with section loss [7ft x 2-1/2in - avg rem 7/16in] with areas of up to 1/4in loss [avg rem 3/8in]



Span 2 Beam 1: [PAR] span 2, exterior and interior of lower web at splice 5, active corrosion with section loss [7ft x 2-1/2in - avg rem 7/16in] with areas of up to 1/4in loss [avg rem 3/8in]



Span 2 Beam 1: underside of top flange over bent 3, underdeveloped patina with exposed steel





Span 2 Beam 1: [PAR] span 4, interior and exterior face of lower web at splice 16, active corrosion with section loss [4ft x 2in - avg rem 7/16in] with areas of 1/4in loss [avg rem 3/8in]



Span 2 Beam 1: exterior face of top flange at web stiffener 20, dye pen test indicates possible 1/8in crack in toe of weld



Span 2 Beam 1: exterior face of top flange at web stiffener 20, dye pen test indicates possible 1/8in crack in toe of weld



Span 2 Beam 1: exterior face of top flange at web stiffener 20, dye pen test indicates possible 1/8in crack in toe of weld



Span 2 Floor Beam 1: first web stiffener from girder 2, painted over pitting [5in x full width x down to knife edge] with corrosion hole [1in diameter]



Span 2 Floor Beam 6: underside of bottom flange at catwalk connection, active corrosion with section loss [full width x 1in x up to 1/16in loss]



Span 2 Floor Beam 6: between floor beam bottom flange and catwalk hanger at girder 1, pack rust [1/8in] with section loss [up to 1/16in]



Span 2 Floor Beam 6: between floor beam bottom flange and catwalk hanger at girder 1, pack rust [1/8in] with section loss [up to 1/16in]



Span 2 Floor Beam 12: between floor beam bottom flange and catwalk hanger at both girders, pack rust [up to 1/4in]



Span 2 Floor Beam 12: between upper gusset plate and web stiffener at both girders, pack rust [up to 1/2in]



Span 2 Floor Beam 12: [PAR] lower web south face next to girder 1, active corrosion with section loss [7ft x 4in - avg rem 5/16in]



Span 2 Floor Beam 12: [PAR] lower web south face next to girder 1, active corrosion with section loss [7ft x 4in - avg rem 5/16in]



Span 2 Floor Beam 12: [PAR] lower web south face next to girder 1, active corrosion with section loss [7ft x 4in - avg rem 5/16in]



Span 2 Floor Beam 12: lower web South face next to girder 2, active corrosion with section loss [full height x up to 2in - avg rem 3/8in] with pack rust [up to 5/16in]



Span 2 Floor Beam 12: lower web South face next to girder 2, active corrosion with section loss [full height x up to 2in - avg rem 3/8in] with pack rust [up to 5/16in]



Span 2 Floor Beam 32: lower web North face, active corrosion with section loss [full length x 2in - avg rem 3/8in]





Span 2 Stringer 2: [PAR] at floor beam 33, missing anchor bolts on East face and two cracked tack welds [full length]



Span 2 Stringer 2: [PAR] at floor beam 33, missing anchor bolts on East face and two cracked tack welds [full length]



Span 2 Stringer 2: [PAR] at floor beam 33, missing anchor bolts on East face and two cracked tack welds [full length]



Span 2 Beam 2: span 3, lower web and splice plate exterior face at splice plate 11, active corrosion with section loss, web [7ft-10in x 2in x avg rem 1/2in]; plate [full width x 1-1/2in x 1/16in loss]



Span 2 Beam 2: span 2, between connection plate and lateral bracing at floor beam 9, pack rust [up to 3/16in]



Span 2 Beam 2: poor quality welds found throughout longitudinal and vertical web stiffeners



Drainage System: girder 2 downspout South of floor beam 8, lower connection bolt missing



Span 2 Beam 2: [PAR] lower web exterior face at splice 5, active corrosion with section loss [7ft-10in x up to 2-1/2in - avg rem 15/32in]



Span 2 Beam 2: [PAR] lower web exterior face at splice 5, active corrosion with section loss [7ft-10in x up to 2-1/2in - avg rem 15/32in]



Drainage System: girder 2 downspout South of floor beam 7, loose bottom connection bolt with fretting rust



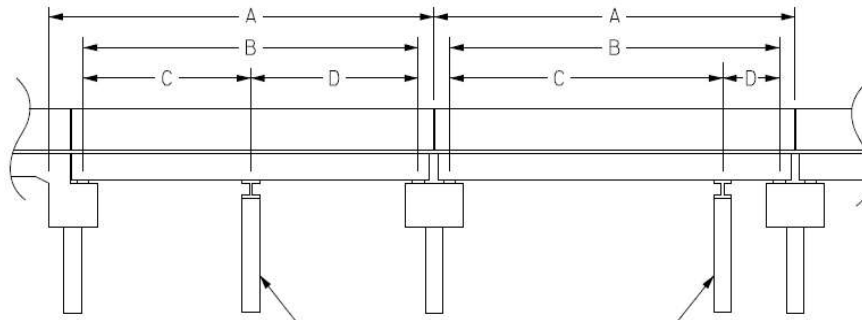
Span 2 Beam 2: span 4, exterior face at web stiffener 36, no weld between horizontal and vertical stiffener [both sides], similar at stiffener 37

# Structure Data Worksheet

## Span Profile

County: **HENDERSON**

Structure Number: **440108**



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	99.790	97.458			
2	260.000	257.000			
3	330.170	327.166			
4	260.000	257.000			
5	99.790	96.458			



typical beam over interior bent



typical interior bearing [bent 1 & bent 4]





span 5 superstructure framing



typical deck drain



typical underside of deck



ladder access to bent 4 cap & catwalk



typical catwalk access



typical web and flange splice plate connection



typical horizontal stiffener weld connection



typical fixed bearing



typical bottom flange transition at interior bearing



typical interior bearing



South approach looking North



South approach looking South



South approach asphalt



right bridge rail



looking downstream [East] from bridge



North approach asphalt





North approach looking North



North approach looking South



left bridge rail



looking upstream [West] from bridge



typical wearing surface



West profile looking East



East profile looking West



typical superstructure framing



typical underside of deck



typical interior diaphragm



typical end diaphragm



typical end bearing



typical beam over interior bent



typical guardrail post transition spacing



typical weep drain



typical backwall





typical wingwall



typical guardrail & end treatment



typical joint over end bent



typical joint over interior bent











# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 440108

County HENDERSON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3308	Maint. Of Steel Plate Bridge Joints	LF	1	Expansion Joint 5 : [PAR] right travel lane left wheel path in aluminum, two [2] cracks [up to 5in x up to 1/16in]	
 3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 2: [PAR] at bent 1, arrested metal loss, lower web [18in x 3in - avg rem 1/4in]; bottom flange [18in x 12in - avg rem 7/8in]	
 3314	Maintain Steel Superstructure Components	LF	1	Span 2 Floor Beam 1: [PAR] first web stiffener from girder 2, painted over pitting [5in x full width x down to knife edge] with corrosion hole [1in diameter]	
 3314	Maintain Steel Superstructure Components	LF	6	Span 2 Floor Beam 12: [PAR] lower web south face next to girder 1, active corrosion with section loss [7ft x 4in - avg rem 5/16in]	
 3314	Maintain Steel Superstructure Components	LF	21	Span 2 Floor Beam 32: [PAR] lower web North face, active corrosion with section loss [full length x 2in - avg rem 3/8in]	
 3314	Maintain Steel Superstructure Components	LF	7	Span 2 Beam 1: [PAR] span 2, exterior and interior of lower web at splice 5, active corrosion with section loss [7ft x 2-1/2in - avg rem 7/16in] with areas of up to 1/4in loss [avg rem 3/8in]	
 3314	Maintain Steel Superstructure Components	LF	4	Span 2 Beam 1: [PAR] span 4, interior and exterior face of lower web at splice 16, active corrosion with section loss [4ft x 2in - avg rem 7/16in] with areas of 1/4in loss [avg rem 3/8in]	
 3314	Maintain Steel Superstructure Components	LF	8	Span 2 Beam 2: [PAR] lower web exterior face at splice 5, active corrosion with section loss [7ft-10in x up to 2-1/2in - avg rem 15/32in]	
 3326	Maintain Concrete Deck	SF	1	Span 4 Deck: [PAR] underside of deck at far end, spall [12in x 12in x 3in deep] with exposed transverse and longitudinal rebar [loss < 1/16in]	
 3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 1: exterior face of top flange at web stiffener 20, dye pen test indicates possible 1/8in crack in toe of weld	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 440108

County HENDERSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
	Request Awaiting Assignment	
Submitted Date:	Submitted By:	Assisted By:
06/12/2019	Thomas Graham, PE	
Details		
Span 2 Beam 1: exterior face of top flange at web stiffener 20, dye pen test indicates possible 1/8in crack in toe of weld		

MMS Code	MMS Description	Quantity
3308	Maint. Of Steel Plate Bridge Joints	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Expansion Joint 5 : [PAR] right travel lane left wheel path in aluminum, two [2] cracks [up to 5in x up to 1/16in]		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 440108

County HENDERSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Span 1 Beam 2: [PAR] at bent 1, arrested metal loss, lower web [18in x 3in - avg rem 1/4in]; bottom flange [18in x 12in - avg rem 7/8in]		

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:
06/06/2019	T. Graham, PE	
Details		
Span 2 Floor Beam 1: [PAR] first web stiffener from girder 2, painted over pitting [5in x full width x down to knife edge] with corrosion hole [1in diameter]		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 440108

County HENDERSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	6      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Span 2 Floor Beam 12: [PAR] lower web south face next to girder 1, active corrosion with section loss [7ft x 4in - avg rem 5/16in]		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	21      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Span 2 Floor Beam 32: [PAR] lower web North face, active corrosion with section loss [full length x 2in - avg rem 3/8in]		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 440108

County HENDERSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	7      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Span 2 Beam 1: [PAR] span 2, exterior and interior of lower web at splice 5, active corrosion with section loss [7ft x 2-1/2in - avg rem 7/16in] with areas of up to 1/4in loss [avg rem 3/8in]		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	4      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Span 2 Beam 1: [PAR] span 4, interior and exterior face of lower web at splice 16, active corrosion with section loss [4ft x 2in - avg rem 7/16in] with areas of 1/4in loss [avg rem 3/8in]		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 440108

County HENDERSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	8      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Span 2 Beam 2: [PAR] lower web exterior face at splice 5, active corrosion with section loss [7ft-10in x up to 2-1/2in - avg rem 15/32in]		

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	1      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/06/2019	T. Graham, PE	
Details		
Span 4 Deck: [PAR] underside of deck at far end, spall [12in x 12in x 3in deep] with exposed transverse and longitudinal rebar [loss < 1/16in]		



# Bridge Inspection Field Sketch



Roadway	24.67ft Wide	2 Paved Lanes	Looking North
Left Shoulder	1.3ft Wide	1.3ft Paved	
Right Shoulder	2.4ft Wide	2.4ft Paved	
Left Guardrail	1.3ft from road		
Right Guardrail	2.4ft from road		

All Measurements Revised: T. Graham 5/31/2019

**Title**

Approach Roadway Sketch

**Description**

Data Worksheet

**Bridge No:** 440108

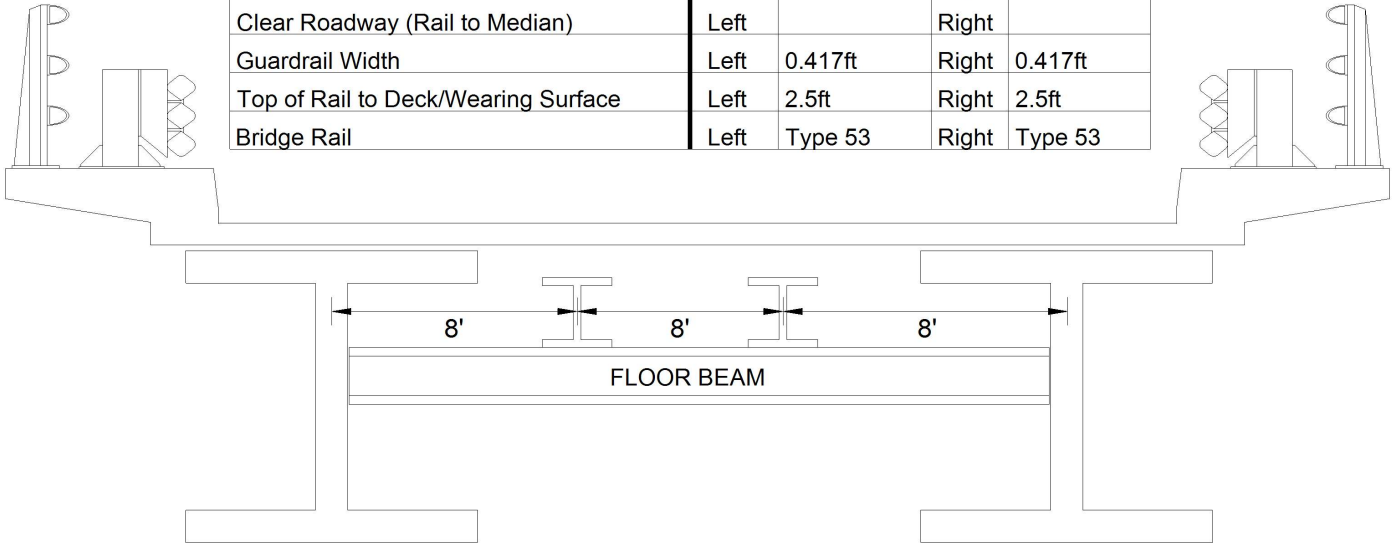
**Drawn By:** P. GUFFEY

**Date:** 05/9/2017

**File Name:** S0114000079

# Bridge Inspection Field Sketch

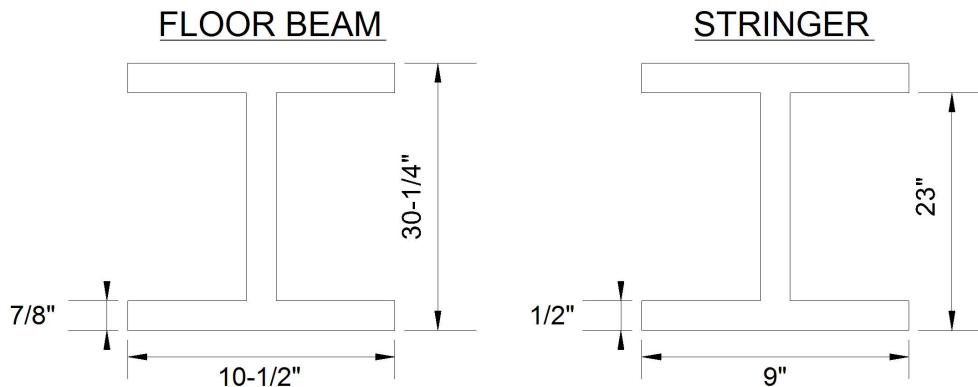
Deck Width/Out to Out	34.667ft	Between Rails	28ft
Clear Roadway	28ft	Wearing Surface	
Median Width		Median Height	
Curb Height	Left 0.708ft	Right 0.708ft	
Sidewalk Width	Left	Right	
Clear Roadway (Rail to Median)	Left	Right	
Guardrail Width	Left 0.417ft	Right 0.417ft	
Top of Rail to Deck/Wearing Surface	Left 2.5ft	Right 2.5ft	
Bridge Rail	Left Type 53	Right Type 53	



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	0.646ft	Left Overhang	5.333ft
Top of Rail to Bottom of Beam	18.46ft	Right Overhang	5.333ft

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	24.00ft	
2	Steel I Beam		

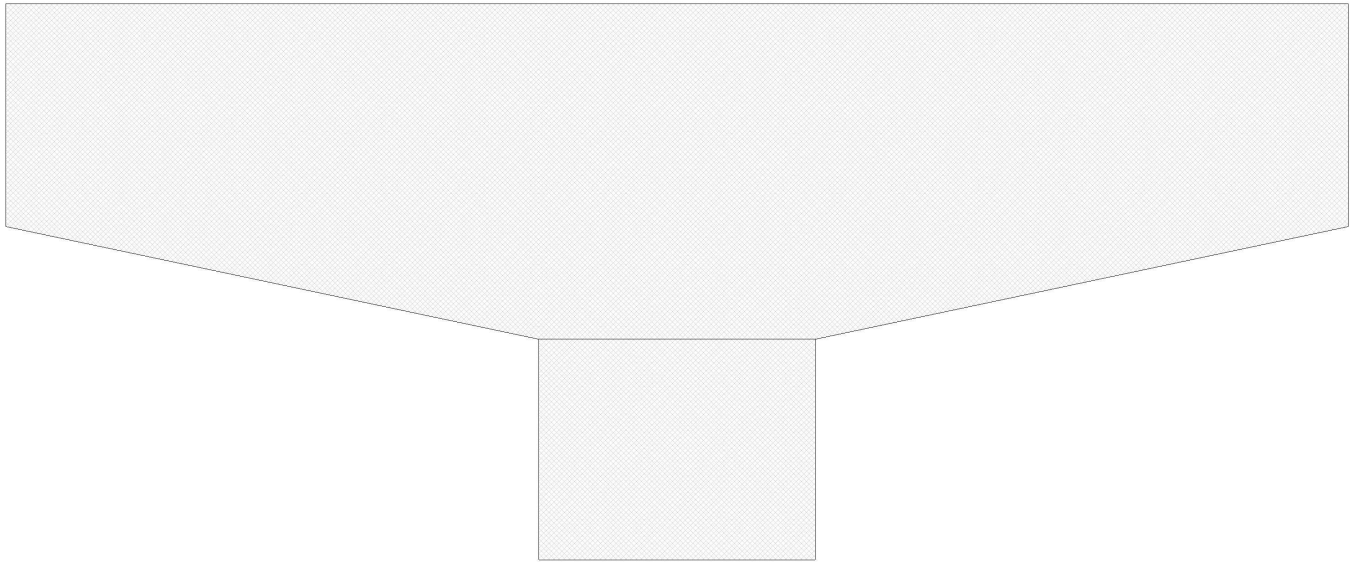
NOTE: THE DECK IS 0.563 FT THICK IN SPANS 2, 3, 4, AND 5  
SPACING BETWEEN FLOOR BEAMS IS 24'-3"



All Measurements Verified: T. Graham 5/23/2019

<b>Title</b> Typical Section Sketch	<b>Description</b> Data Worksheet
<b>Bridge No:</b> 440108	<b>Drawn By:</b> mer
<b>Date:</b> 05/4/2007	<b>File Name:</b> S0114000078

# 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.				
34.000 ft.	7.000 ft.	8.500 ft.	17.000 ft.	17.000 ft.	5.000 ft.	5.000 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		7 ft.			Vertical	No	No	No	No
<b>Bent #: 1</b>		<b>Similar Bents: 2, 3, &amp; 4</b>								

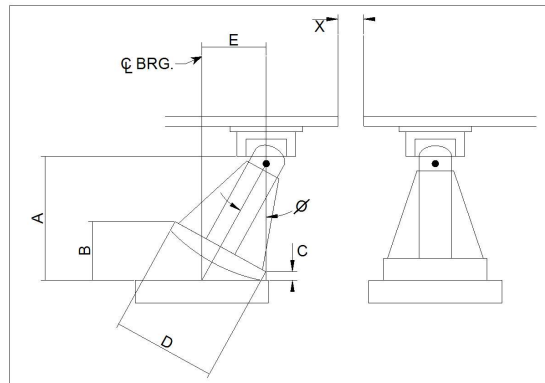
Note: Caps and columns are steel encased

All Measurements Verified: T. Graham 5/23/2019

<b>Title</b>			<b>Description</b>			
Typical Bent Sketch			Data Worksheet			
<b>Bridge No:</b> 440108	<b>Drawn By:</b> P. GUFFEY		<b>Date:</b> 5/09/2017		<b>File Name:</b> T0518000032	

# Bridge Inspection Field Sketch

## ROCKER BEARING MEASUREMENTS



Span	Beam	Bearing (Near/Far)	Ambient Temp (°F)	Bearing Temp (°F)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"Ø" (in)	"X" (in)
2	1	Near	78	65	21-1/4	3/4	1-1/2	12	3/8		
2	2	Near	78	65	21-1/2	1	1-1/8	12	1/2		
4	1	Far	78	65	21-3/8	7/8	1-1/2	12	3/8		
4	2	Far	78	65	21-3/8	3/4	1-5/8	12	1/2		

All Measurements Revised: T. Graham 5/31/2019

**Title**

Rocker Bearing Sketch

**Description**

Data Worksheet

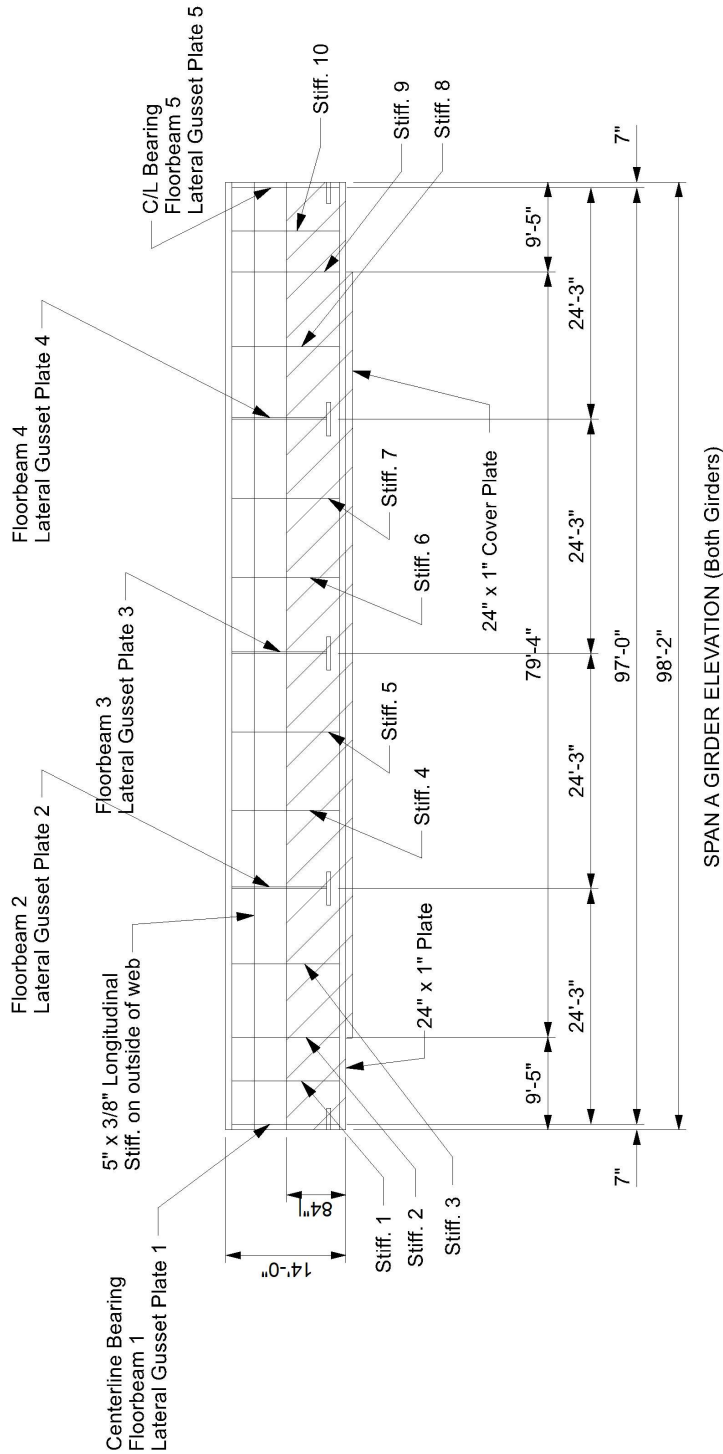
Bridge No: 440108

Drawn By: mer

Date: 5/29/09

File Name: S0114000081

# Bridge Inspection Field Sketch

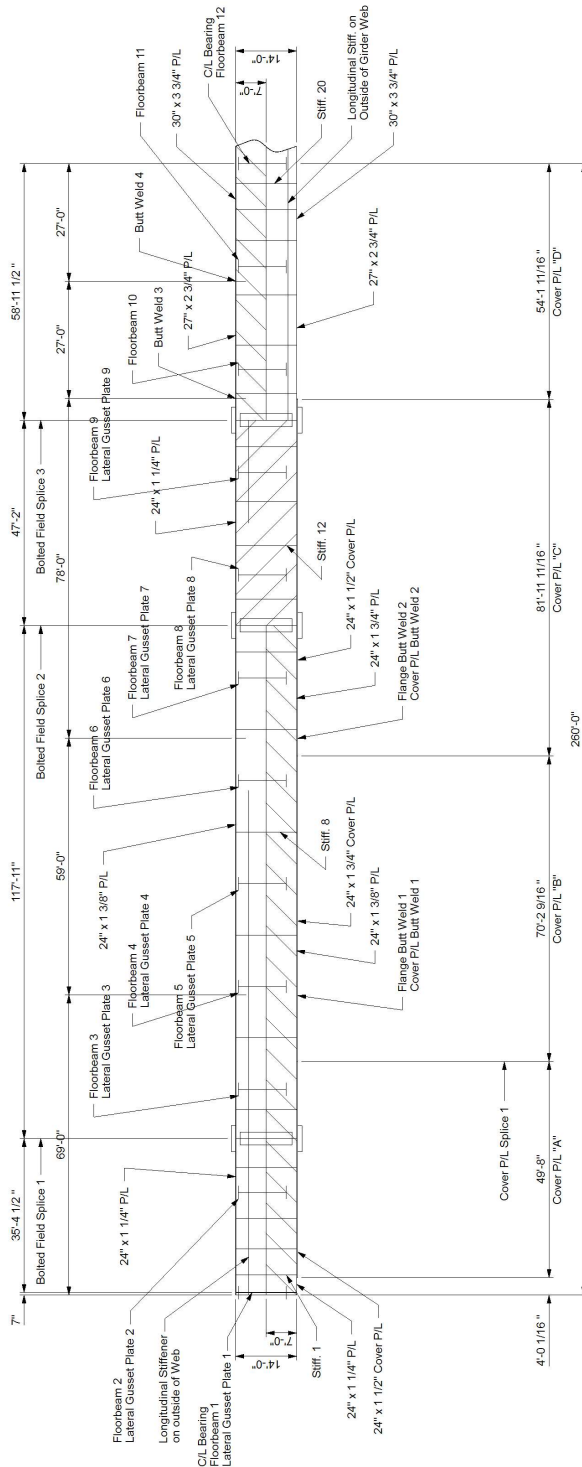


SPAN A GIRDER ELEVATION (Both Girders)

Verified: T. Graham 5/31/2019

<b>Title</b> Fracture Critical 1		<b>Description</b> Components	
Bridge No: 440108	Drawn By: maa	Date: 4/10/2013	File Name: S0000003105

# Bridge Inspection Field Sketch

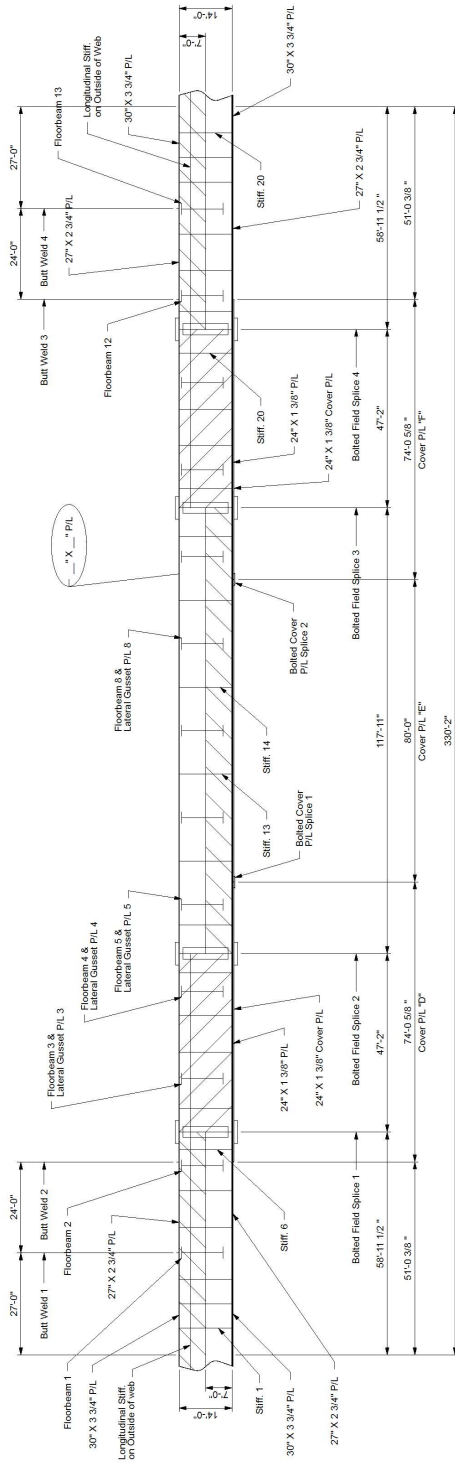


Span "B" Girder Elevation (For Both Girders)

Verified: T. Graham 5/31/2019

<b>Title</b> Fracture Critical 2		<b>Description</b> Components	
<b>Bridge No:</b> 440108	<b>Drawn By:</b> pcb	<b>Date:</b> 4/10/2013	<b>File Name:</b> S0000003107

# Bridge Inspection Field Sketch

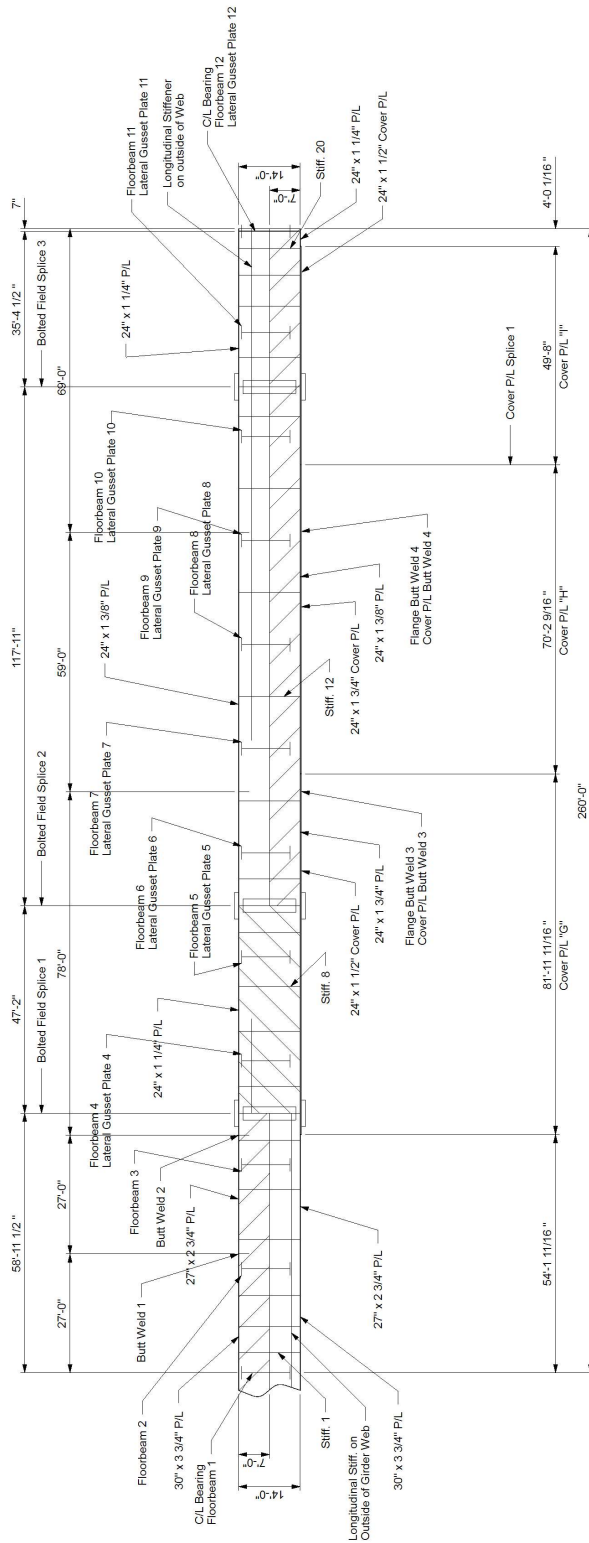


Span "C" Girder Elevation (For Both Girders)

Verified: T. Graham 5/31/2019

<b>Title</b> Fracture Critical 3		<b>Description</b> Components	
<b>Bridge No:</b> 440108	<b>Drawn By:</b> pcb	<b>Date:</b> 4/10/2013	<b>File Name:</b> S0000003109

# Bridge Inspection Field Sketch



Span "D" Girder Elevation (For Both Girders)

Verified: T. Graham 5/31/2019

**Title**  
Fracture Critical 4

**Description**  
Components

**Bridge No:** 440108

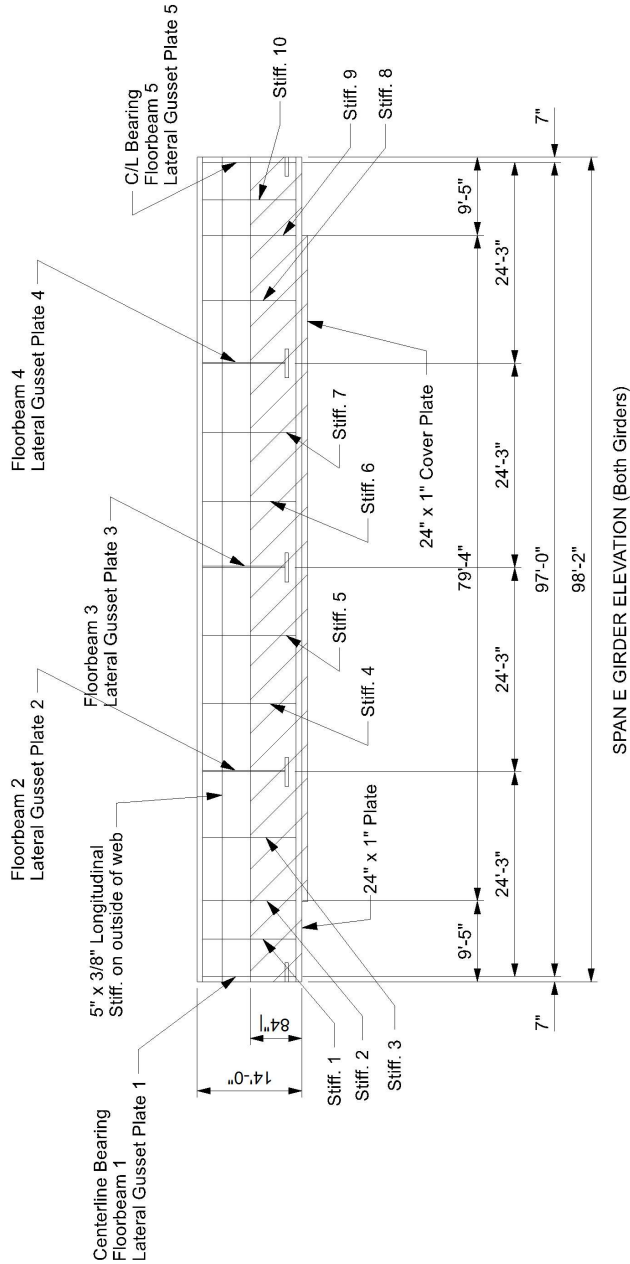
**Drawn By:** pcb

**Date:** 4/10/2013

**File Name:** S0000003111



# Bridge Inspection Field Sketch



Verified: T. Graham 5/31/2019

<b>Title</b> Fracture Critical 5		<b>Description</b> Components	
Bridge No: 440108	Drawn By: pcb	Date: 4/10/2013	File Name: S0000003113

# Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE
GIRDER 1 SPAN A	TOP FLANGE	7
	BTM FLANGE	6
	BTM FLANGE COVER PLATE	6
	WEB	6
GIRDER 1 SPANS B,C,&D	TOP FLANGE	7
	BTM FLANGE	6
	BTM FLANGE COVER PLATE	6
	WEB	6
GIRDER 1 SPAN E	TOP FLANGE	7
	BTM FLANGE	6
	BTM FLANGE COVER PLATE	6
	WEB	6

Verified: T. Graham 5/31/2019

**Title**

Fracture Critical Members & Grades

**Description**

Data Worksheet

**Bridge No:** 440108

**Drawn By:** ME.RENFRO

**Date:** 4/7/2015

**File Name:** S0110002005

## Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE
GIRDER 2 SPAN A	TOP FLANGE	7
	BTM FLANGE	6
	BTM FLANGE	
	COVER PLATE	6
	WEB	6
GIRDER 2 SPANS B,C,&D	TOP FLANGE	7
	BTM FLANGE	6
	BTM FLANGE	
	COVER PLATE	6
	WEB	6
GIRDER 2 SPAN E	TOP FLANGE	7
	BTM FLANGE	6
	BTM FLANGE COVER PLATE	6
	WEB	6
GIRDER 1 WELDS		5
GIRDER 2 WELDS		5
		Verified: T. Graham 5/31/2019
<b>Title</b> FC 1		<b>Description</b> FC DATA
<b>Bridge No:</b> 440108	<b>Drawn By:</b> ME.RENFRO	<b>Date:</b> 5/26/2015
		<b>File Name:</b> S0110002014

## Bridge Inspection Field Sketch

INSPECTION ITEM		GRADE	
ITEM	MEMBER	GIRDER 1	GIRDER 2
BOLTED FIELD SPLICE 1	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	7	7
	BTM FLANGE SPLICE PLATE	5	5
BOLTED FIELD SPLICE 2	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	7	7
	BTM FLANGE SPLICE PLATE	5	5
BOLTED FIELD SPLICE 3	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	5	5
	BTM FLANGE SPLICE PLATE	7	5
Verified: T. Graham 5/31/2019		7	5

**Title**

FC 2

**Description**

FC DATA

**Bridge No:** 440108

**Drawn By:** ME.RENFRO

**Date:** 5/26/2015

**File Name:** S0110002015

## Bridge Inspection Field Sketch

INSPECTION ITEM		GRADE	
ITEM	MEMBER	GIRDER 1	GIRDER 2
BOLTED FIELD SPLICE 4	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	5	5
	BTM FLANGE SPLICE PLATE	5	5
BOLTED FIELD SPLICE 5	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	7	7
	BTM FLANGE SPLICE PLATE	5	5
BOLTED FIELD SPLICE 6	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	7	7
	BTM FLANGE SPLICE PLATE	5	5
Verified: T. Graham 5/31/2019			

**Title**

FC 3

**Description**

FC DATA

Bridge No: 440108

Drawn By: ME, RENFRO

Date: 5/26/2015

File Name: S0110002016

## Bridge Inspection Field Sketch

INSPECTION ITEM		GRADE	
ITEM	MEMBER	GIRDER 1	GIRDER 2
BOLTED FIELD SPLICE 7	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	5	5
	BTM FLANGE SPLICE PLATE	5	5
BOLTED FIELD SPLICE 8	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	5	5
	BTM FLANGE SPLICE PLATE	5	5
BOLTED FIELD SPLICE 9	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	5	7
	BTM FLANGE SPLICE PLATE	5	5
Verified: T. Graham 5/31/2019			

**Title**

FC 4

**Description**

FC DATA

**Bridge No:** 440108

**Drawn By:** ME.RENFRO

**Date:** 5/26/2015

**File Name:** S0110002017

## Bridge Inspection Field Sketch

INSPECTION ITEM		GRADE	
ITEM	MEMBER	GIRDER 1	GIRDER 2
BOLTED FIELD SPLICE 10	TOP FLANGE SPLICE PLATE	7	7
	WEB SPLICE PLATE	5	7
	BTM FLANGE SPLICE PLATE	7	5

Verified: T. Graham 5/31/2019

<b>Title</b> FC 5		<b>Description</b> FC DATA	
<b>Bridge No:</b> 440108	<b>Drawn By:</b> ME.RENFRO	<b>Date:</b> 5/26/2015	<b>File Name:</b> S0110002018

## Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE
FLOORBEAMS	FLOORBEAM 1	7
	FLOORBEAM 2	7
	FLOORBEAM 3	7
	FLOORBEAM 4	7
	FLOORBEAM 5	6
	FLOORBEAM 6	5
	FLOORBEAM 7	7
	FLOORBEAM 8	7
	FLOORBEAM 9	7
	FLOORBEAM 10	7
	FLOORBEAM 11	6
	FLOORBEAM 12	7
	FLOORBEAM 13	7
	FLOORBEAM 14	6
	FLOORBEAM 15	7
	FLOORBEAM 16	7
	FLOORBEAM 17	5
	FLOORBEAM 18	7
	FLOORBEAM 19	7
	FLOORBEAM 20	6
	FLOORBEAM 21	7
	FLOORBEAM 22	7
	FLOORBEAM 23	5
	FLOORBEAM 24	7
	FLOORBEAM 25	6
	FLOORBEAM 26	7
	FLOORBEAM 27	7
	FLOORBEAM 28	6

Verified: T. Graham 5/31/2019

<b>Title</b> FC 6		<b>Description</b> FLOOR BEAMS DATA	
<b>Bridge No:</b> 440108	<b>Drawn By:</b> ME.RENFRO	<b>Date:</b> 5/26/2015	<b>File Name:</b> S0110002019



## Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE
FLOORBEAMS	FLOORBEAM 29	7
	FLOORBEAM 30	7
	FLOORBEAM 31	5
	FLOORBEAM 32	7
	FLOORBEAM 33	7
	FLOORBEAM 34	5
	FLOORBEAM 35	7
	FLOORBEAM 36	7
	FLOORBEAM 37	5
	FLOORBEAM 38	7
	FLOORBEAM 39	7
	FLOORBEAM 40	6
	FLOORBEAM 41	7
	FLOORBEAM 42	5
	FLOORBEAM 43	5
	FLOORBEAM 44	7
	FLOORBEAM 45	7
	FLOORBEAM 46	7
	FLOORBEAM 47	7
<p>Verified: T. Graham 5/31/2019</p>		

<b>Title</b>		<b>Description</b>	
FC 7		FLOOR BEAMS CONT.	
<b>Bridge No:</b> 440108	<b>Drawn By:</b> ME.RENFRO	<b>Date:</b> 5/26/2015	<b>File Name:</b> S0110002020

# Bridge Inspection Field Sketch

## INSPECTION ITEMS

## GRADE

ITEM	MEMBER	GIRDER 1 UPSTREAM	GIRDER 2 DOWNSTREAM
FLOORBEAM CONN.	@ FLBM 1	7	7
	@ FLBM 2	7	7
	@ FLBM 3	7	7
	@ FLBM 4	7	7
	@ FLBM 5	7	7
	@ FLBM 6	7	7
	@ FLBM 7	7	7
	@ FLBM 8	7	7
	@ FLBM 9	7	7
	@ FLBM 10	7	7
	@ FLBM 11	7	7
	@ FLBM 12	7	7
	@ FLBM 13	7	7
	@ FLBM 14	7	6
	@ FLBM 15	7	7
	@ FLBM 16	7	7
	@ FLBM 17	5	5
	@ FLBM 18	7	7
	@ FLBM 19	7	7
	@ FLBM 20	7	7
	@ FLBM 21	7	7
	@ FLBM 22	7	7
	@ FLBM 23	7	7
	@ FLBM 24	7	7
	@ FLBM 25	7	7

Verified: T. Graham 5/31/2019

**Title**

FC 8

**Description**

FLOOR BEAM CONNECTIONS

Bridge No: 440108

Drawn By: ME.RENFRO

Date: 5/26/2015

File Name: S0110002021

## Bridge Inspection Field Sketch

### INSPECTION ITEMS

### GRADE

ITEM	MEMBER	GIRDER 1 UPSTREAM	GIRDER 2 DOWNSTREAM
FLOORBEAM CONN.	@ FLBM 26	7	7
	@ FLBM 27	7	7
	@ FLBM 28	7	7
	@ FLBM 29	7	7
	@ FLBM 30	7	7
	@ FLBM 31	5	5
	@ FLBM 32	7	7
	@ FLBM 33	7	7
	@ FLBM 34	5	5
	@ FLBM 35	7	7
	@ FLBM 36	7	7
	@ FLBM 37	7	7
	@ FLBM 38	7	7
	@ FLBM 39	7	7
	@ FLBM 40	7	7
	@ FLBM 41	7	7
	@ FLBM 42	7	7
	@ FLBM 43	7	7
	@ FLBM 44	7	7
	@ FLBM 45	7	7
@ FLBM 46	7	7	
@ FLBM 47	7	7	
Verified: T. Graham 5/31/2019			

**Title**

FC 9

**Description**

FLB. CONN. CONT.

Bridge No: 440108

Drawn By: ME.RENFRO

Date: 5/26/2015

File Name: S0110002022

## Bridge Inspection Field Sketch

ITEM	MEMBER	GIRDER 1	GIRDER 2
GIRDER 1 BEARING STIFF.	STIFF. 1	6	6
	STIFF. 2	6	6
	STIFF. 3	6	6
	STIFF. 4	6	6
	STIFF. 5	6	6
	STIFF. 6	6	6
	STIFF. 7	6	6
	STIFF. 8	6	6
Verified: T. Graham 5/31/2019			

**Title**

FC 10

**Description**

BEARING STIFF.

Bridge No: 440108

Drawn By: ME.RENFRO

Date: 5/26/2015

File Name: S0110002023

## Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE/ GIR. 1	GRADE/ GIR 2
GIRDER	1	6	6
STIFFENER	2	6	6
	3	6	6
	4	6	6
	5	6	6
	6	6	6
	7	6	6
	8	6	6
	9	6	6
	10	6	6
	11	6	6
	12	6	6
	13	6	6
	14	6	6
	15	6	6
	16	6	6
	17	6	6
	18	6	6
	19	6	6
	20	6	6
	21	6	6
	22	6	6
	23	6	6
Verified: T. Graham 5/31/2019	24	6	6

<b>Title</b> FC 11		<b>Description</b> GIRDER 1 STIFF.	
<b>Bridge No:</b> 440108	<b>Drawn By:</b> ME.RENFRO	<b>Date:</b> 5/26/2015	<b>File Name:</b> S0110002024

## Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE/ GIR 1	GRADE/ GIR 2
GIRDER	25	6	6
STIFFENER	26	6	6
	27	6	6
	28	6	6
	29	6	6
	30	6	6
	31	6	6
	32	6	6
	33	6	6
	34	6	6
	35	6	6
	36	6	6
	37	6	6
	38	6	6
	39	6	6
	40	6	6
	41	6	6
	42	6	6
	43	6	6
	44	6	6
	45	6	6
	46	6	6
	47	6	6
Verified: T. Graham 5/31/2019	48	6	6

**Title**

FC 12

**Description**

WEB STIFFENERS

Bridge No: 440108

Drawn By: ME.RENFRO

Date: 5/26/2015

File Name: S0110002025

## Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE/ GIR 1	GRADE/ GIR 2
GIRDER	49	6	6
STIFFENER	50	6	6
	51	6	6
	52	6	6
	53	6	6
	54	6	6
	55	6	6
	56	6	6
	57	6	6
	58	6	6
	59	6	6
	60	6	6
	61	6	6
	62	6	6
	63	6	6
	64	6	6
	65	6	6
	66	6	6
	67	6	6
	68	6	6
	69	6	6
	70	6	6
	71	6	6
Verified: T. Graham 5/31/2019	72	6	6

**Title**

FC 13

**Description**

WEB STIFF.

Bridge No: 440108

Drawn By: ME.RENFRO

Date: 5/26/2015

File Name: S0110002026

# Bridge Inspection Field Sketch

ITEM	MEMBER	GRADE/ GIR 1	GRADE/ GIR 2
GIRDER	73	6	6
STIFFENER	74	6	6
	75	6	6
	76	6	6
	77	6	6
	78	6	6
	79	6	6
	80	6	6
Verified: T. Graham 5/31/2019			

<b>Title</b> FC 14	<b>Description</b> WEB STIFFENER
<b>Bridge No:</b> 440108	<b>Drawn By:</b> ME.RENFRO
<b>Date:</b> 7/23/2015	<b>File Name:</b> S0110002036