



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE ISSUED**
SIGN NOTICE ISSUED
SKETCHES UPDATED

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 06/04/2018

DIVISION: 13 COUNTY: MCDOWELL STRUCTURE NUMBER: 580312 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1781 MILE POST: _____

LOCATION: .3 MI.N.JCT.US221

FEATURE INTERSECTED: SECOND BROAD RIVER

LATITUDE: 35° 31' 51.38" LONGITUDE: 81° 58' 5.25"

SUPERSTRUCTURE: TIMBER FLOOR ON SALVAGED I-BEAMS

SUBSTRUCTURE: E.BT.1:TIM.CAP/PILES;BT:TIM.CAP/TIM.P&S;ABUT2:RC W/TIMBER RISER

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

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

GRADES: DECK 6 SUPERSTRUCTURE 4 SUBSTRUCTURE 4 CULVERT N

POSTED SV: 18 POSTED TTST: 21

OTHER SIGNS PRESENT: (4) DELINEATORS; (1) NARROW BRIDGE SIGN



south approach looking north

Sign noticed issued for		Number Required
NO	WEIGHT LIMIT	0
NO	DELINEATORS	0
YES	NARROW BRIDGE	1
NO	ONE LANE BRIDGE	0
NO	LOW CLEARANCE	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY
RICARDO CORNEJO

SIGNATURE

ASSISTED BY HECTOR BONILLA

Structure Element Scoring

Structure Number: **580312**

Inspection Date **6/4/2018**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
31	0	Timber Deck	Deck	1486	371	1115	0	0
107	0	Steel Open Girder/Beam	Beam	704	0	664	36	4
515	107	Steel Protective Coating	Beam	2695	482	0	0	2213
215	0	Reinforced Concrete Abutment	Abutments	38	22	0	16	0
216	0	Timber Abutment	Abutments	36	0	23	13	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	33	31	0	2	0
228	0	Timber Pile	Piles and Columns	16	0	12	4	0
235	0	Timber Pier Cap	Caps	66	64	0	2	0
316	0	Other Bearings	Bearing Device	44	0	0	44	0
515	316	Steel Protective Coating	Bearing Device	44	0	0	0	44
330	0	Metal Bridge Railing	Bridge Rail	134	128	0	6	0
515	330	Steel Protective Coating	Bridge Rail	134	119	0	15	0
510	0	Wearing Surface	Wearing Surfaces	1442	394	136	912	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **580312**

Inspection Date: **06/04/2018**

MMS Code	Element Name	Defect Name	Recommended Quantity
3324	Timber Deck	Damage	1115 Square Feet
3314	Steel Open Girder/Beam	Corrosion	47 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	8 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	8 Feet
3346	Timber Abutment	Decay/Section Loss	13 Feet
3346	Timber Abutment	Damage	36 Feet
3348	Reinforced Concrete Pile Cap/Footing	Delamination/Spall	2 Feet
3344	Timber Pile	Decay/Section Loss	3 Each
3344	Timber Pile	Split/Delamination (Timber)	1 Each
3344	Timber Pier Cap	Decay/Section Loss	2 Feet
3334	Other Bearings	Corrosion	44 Each
3322	Metal Bridge Railing	Corrosion	5 Square Feet
3322	Metal Bridge Railing	Connection	1 Feet
2816	Wearing Surface	Delamination/Spall (Wearing Surfaces)	8 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	904 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	2272 Square Feet

Element Structure Maintenance Quantities

Structure Number: **580312**

Inspection Date **06/04/2018**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	49	36	0	13	23	0
Abutments	3350	Maintenance of Concrete Wings and Wall	16	38	0	16	0	22
Beam	3314	Maintenance Steel Superstructure Components	47	704	4	36	664	0
Beam	3342	Clean and Paint Steel	2213	2695	2213	0	0	482
Bearing Device	3334	Bridge Bearing	44	44	0	44	0	0
Bearing Device	3342	Clean and Paint Steel	44	44	44	0	0	0
Bridge Rail	3322	Maintenance of Steel Bridge Rail	6	134	0	6	0	128
Bridge Rail	3342	Clean and Paint Steel	15	134	0	15	0	119
Caps	3344	Maintenance To Timber Substructure	2	66	0	2	0	64
Deck	3324	Maintenance of Timber Deck Components	1115	1486	0	0	1115	371
Footing	3348	Maintenance of Concrete Substructure	2	33	0	2	0	31
Piles and Columns	3344	Maintenance To Timber Substructure	4	16	0	4	12	0
Wearing Surfaces	2816	Asphalt Surface Repair	912	1442	0	912	136	394

Element Condition and Maintenance Data

Structure Number: **580312**

Inspection Date: **06/04/2018**

Span 1 Deck

Timber Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
31	Timber Deck	754	188	566	0	0	Square Feet
515	Steel Protective Coating	754	754	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
31	Damage	underside throughout all bays, soft with water stains (75%)	2	566	566	Square Feet

General Comments

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	732	61	114	557	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	both lanes, scattered map cracking (75% of deck area x up to 1in)	3	549	549	Square Feet
510	Delamination/Spall (Wearing Surfaces)	center of lanes at 6ft from end bent 1, pothole (1ft x 7in x 1-1/2in)	3	1	1	Square Feet
510	Delamination/Spall (Wearing Surfaces)	northbound lane at 7ft from end bent 1, pothole (18in x 12in x full depth)	3	2	2	Square Feet
510	Delamination/Spall (Wearing Surfaces)	southbound lane and center of lanes near bent 1, (2) potholes (up to 30in x 16in x full depth)	3	5	5	Square Feet
510	Patched Area/Pothole (Wearing Surface)	center of lanes, multiple patched areas (up to 8ft x 4ft)	2	60		Square Feet
510	Patched Area/Pothole (Wearing Surface)	northbound lane at 3ft from end bent 1, patched area (14ft x 4ft)	2	54		Square Feet

General Comments

Span 1 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	31	2	0	Feet
515	Steel Protective Coating	126	24	0	0	102	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	bottom flange at end bent 1, rust scale with section loss (18in x full width) (0.51in avg rem)	3	2	2	Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101	Square Feet
515	Effectiveness (Steel Protective Coatings)	bottom flange at end bent 1, paint failure with bare metal exposed (1sf)	4	1	1	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	33	0	33	0	0	Feet
515	Steel Protective Coating	126	25	0	0	101	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	33			Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101		Square Feet
General Comments							

Span 1**Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	33	0	0	Feet
515	Steel Protective Coating	126	25	0	0	101	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	33			Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101		Square Feet
General Comments							

Span 1**Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	33	0	0	Feet
515	Steel Protective Coating	126	25	0	0	101	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	33			Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101		Square Feet
General Comments							

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	33	0	0	Feet
515	Steel Protective Coating	126	25	0	0	101	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		

Structure Number: **580312**Inspection Date: **06/04/2018**

107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	33	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101 Square Feet
General Comments					

Span 1**Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	33	0	33	0	0 Feet
515	Steel Protective Coating	126	25	0	0	101 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	33	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101 Square Feet
General Comments					

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	33	0	0	Feet
515	Steel Protective Coating	126	25	0	0	101	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	33		Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101	Square Feet
General Comments						

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	33	0	0	Feet
515	Steel Protective Coating	126	25	0	0	101	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	33		Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101	Square Feet
General Comments						

Span 1**Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	30	3	0	Feet
515	Steel Protective Coating	126	19	0	0	107	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PM) bottom flange at end bent 1, rust scale with section loss (30in x full width) (0.35in avg rem)	3	3	3	Feet
107	Corrosion	top flange at end bent 1, rust scale with section loss (30in x full width) (1/2in avg rem)	3		3	Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	30		Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101	Square Feet
515	Effectiveness (Steel Protective Coatings)	both flanges at end bent 1, paint failure with bare metal exposed (6sf)	4	6	6	Square Feet

General Comments

Span 1**Beam 10****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	31	2	0	Feet
515	Steel Protective Coating	126	21	0	0	105	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PM) bottom flange at end bent 1, rust scale with section loss (18in x full width) (0.46in avg rem)	3	2	2	Feet
107	Corrosion	top flange at end bent 1, rust scale with section loss (2ft x full width) (1/2in avg rem)	3		2	Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31		Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101	Square Feet
515	Effectiveness (Steel Protective Coatings)	both flanges at end bent 1, paint failure with bare metal exposed (4sf)	4	4	4	Square Feet

General Comments

Span 1**Beam 11****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	0	31	2	0	Feet
515	Steel Protective Coating	126	21	0	0	105	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	(PM) bottom flange at end bent 1, rust scale with section loss (2ft x full width) (0.32in avg rem)	3	2	2	Feet
107	Corrosion	top flange at end bent 1, rust scale with section loss (30in x full width) (1/2in avg rem)	3		2	Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31		Feet

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515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	101	101	Square Feet
515	Effectiveness (Steel Protective Coatings)	both flanges at end bent 1, paint failure with bare metal exposed (4sf)	4	4	4	Square Feet

General Comments**Span 1 Left Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	34	34	0	0	0 Feet
515	Steel Protective Coating	34	29	0	5	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
515	Effectiveness (Steel Protective Coatings)	all posts, coating with limited effectiveness and rust (5sf)	3	5	5 Square Feet

General Comments**Span 1 Right Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	34	33	0	1	0 Feet
515	Steel Protective Coating	34	29	0	5	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Connection	splice connection at 5ft from end bent 1, (1) missing bolt	3	1	1 Feet
515	Effectiveness (Steel Protective Coatings)	all posts, coating with limited effectiveness and rust (5sf)	3	5	5 Square Feet

General Comments**Span 1 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet

General Comments

Span 1 Far Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments

Span 1 Near Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments

Span 1 Far Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments

Span 1 Near Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments

Span 1 Near Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments

Span 1 Far Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments

Span 1 Near Bearing**Other Bearing**

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

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

Other Bearing

General Comments

Other Bearing

General Comments

Other Bearing

General Comments

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	

General Comments**Span 1 Far Bearing****Other Bearing**

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

Structure Number: **580312**Inspection Date: **06/04/2018**

316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet
General Comments						

Span 1 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet
General Comments						

Span 1 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet
General Comments						

Span 2 Deck**Timber Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
31	Timber Deck	732	183	549	0	0 Square Feet
515	Steel Protective Coating	1	1	0	0	0 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
31	Damage	underside throughout all bays, soft with water stains (75%)	2	549	549	Square Feet
General Comments						

Span 2 Wearing Surface**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	710	333	22	355	0 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

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510	Crack (Wearing Surface)	both lanes, scattered map cracking (50% of deck area x up to 1/2in)	3	355	355	Square Feet
510	Patched Area/Pothole (Wearing Surface)	center of lanes near midspan, (2) patched areas (up to 5-1/2ft x 3-1/2ft)	2	22		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	31	0	31	0	0 Feet
515	Steel Protective Coating	119	23	0	0	96 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet

General Comments**Span 2****Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	26	5	0 Feet
515	Steel Protective Coating	119	18	0	0	101 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.15in at edge) (0.35in avg rem)	3	2	2 Feet
107	Corrosion	(PM) bottom flange at end bent 2, rust scale with section loss (30in x full width) (0.36in avg rem)	3	3	3 Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	26	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet
515	Effectiveness (Steel Protective Coatings)	bottom flange at bent 1 and end bent 2, paint failure with bare metal exposed(5sf)	4	5	5 Square Feet

General Comments**Span 2****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	27	4	0 Feet
515	Steel Protective Coating	119	19	0	0	100 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.12in at edge) (0.30in avg rem)	3	2	2 Feet
107	Corrosion	(PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.43in avg rem)	3	2	2 Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height)	2	27	Feet

		on web			
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet
515	Effectiveness (Steel Protective Coatings)	bottom flange at bent 1 and end bent 2, paint failure with bare metal exposed (4sf)	4	4	4 Square Feet

General Comments**Span 2****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	29	2	0 Feet
515	Steel Protective Coating	119	21	0	0	98 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.38in avg rem)	3	2	2 Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	29	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet
515	Effectiveness (Steel Protective Coatings)	bottom flange at end bent 2, paint failure with bare metal exposed (2sf)	4	2	2 Square Feet

General Comments**Span 2****Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	27	0	4 Feet
515	Steel Protective Coating	119	19	0	0	100 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PM) bottom flange at end bent 2, rust scale with section loss (4ft x full width x down to knife edge) (0.17in avg rem) with (2) corrosion holes (up to 7in x 1-1/2in)	4	4	4 Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	27	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet
515	Effectiveness (Steel Protective Coatings)	bottom flange at end bent 2, paint failure with bare metal exposed (4sf)	4	4	4 Square Feet

General Comments**Span 2****Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	29	2	0 Feet
515	Steel Protective Coating	119	21	0	0	98 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.39in avg rem)	3	2	2 Feet

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107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	29	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet
515	Effectiveness (Steel Protective Coatings)	bottom flange at end bent 2, paint failure with bare metal exposed (2sf)	4	2	2 Square Feet

General Comments**Span 2****Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	17	14	0 Feet
515	Steel Protective Coating	119	9	0	0	110 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	(PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.33in avg rem)	3	2	2 Feet
107	Corrosion	(PM) bottom flange near midspan, rust scale with section loss (12ft x full width) (0.32in avg rem)	3	12	12 Feet
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	17	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet
515	Effectiveness (Steel Protective Coatings)	bottom flange at end bent 2 and midspan, paint failure with bare metal exposed (14sf)	4	14	14 Square Feet

General Comments**Span 2****Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	31	0	0 Feet
515	Steel Protective Coating	119	23	0	0	96 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet

General Comments**Span 2****Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	31	0	0 Feet
515	Steel Protective Coating	119	23	0	0	96 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31	Feet

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515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet
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General Comments**Span 2****Beam 10****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	31	0	0 Feet
515	Steel Protective Coating	119	23	0	0	96 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet

General Comments**Span 2****Beam 11****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	31	0	0 Feet
515	Steel Protective Coating	119	23	0	0	96 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web	2	31	Feet
515	Effectiveness (Steel Protective Coatings)	both flanges and web, scattered paint failure with bare metal exposed (80%)	4	96	96 Square Feet

General Comments**Span 2****Left Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	33	33	0	0	0 Feet
515	Steel Protective Coating	33	28	0	5	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
515	Effectiveness (Steel Protective Coatings)	all posts, coating with limited effectiveness and rust (5sf)	3	5	5 Square Feet

General Comments

Span 2 Right Bridge Rail**Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	33	28	0	5	0 Feet
515	Steel Protective Coating	33	33	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Corrosion	all posts, coating with limited effectiveness and rust (5sf)	3	5	5 Square Feet
General Comments					

Span 2 Near Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet
General Comments					

Span 2 Far Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet
General Comments					

Span 2 Near Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet
General Comments					

Span 2**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 2**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	

General Comments**Span 2 Far Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet
General Comments						

Span 2 Far Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet
General Comments					

Span 2 Near Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet
General Comments					

Span 2 Far Bearing**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet
General Comments					

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 2**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	
General Comments							

Span 2**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	rust scale with section loss (10%)	3	1	1	Each	
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet	

General Comments**Span 2 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	rust scale with section loss (10%)	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1 Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **580312**Inspection Date: **06/04/2018**

316	Corrosion	rust scale with section loss (10%)	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with bare metal exposed (1sf)	4	1	1	Square Feet

General Comments**End Bent 1 Pile 1****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1		Each

General Comments**End Bent 1 Pile 2****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1		Each

General Comments**End Bent 1 Pile 3****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1		Each

General Comments**End Bent 1 Pile 4****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1		Each

General Comments

End Bent 1**Pile 5****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1		Each

General Comments

End Bent 1**Pile 6****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	(PM) at 2ft from base, decay (2ft x full width x full depth) with sister pile	3	1	1	Each
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2			Each

General Comments

Bent 1**Pile 1****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	(PM) south face near mid-height, decay (9in x 3in x 3in)	3	1	1	Each
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2			Each

General Comments

Bent 1**Pile 2****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Split/Delamination (Timber)	south face below cap, check (4ft x 1/2in x 1in)	3	1	1	Each
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2			Each

General Comments

Bent 1**Pile 3****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1			Each
General Comments							

Bent 1**Pile 4****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1			Each
General Comments							

Bent 1**Pile 5****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1			Each
General Comments							

End Bent 1**Pile 7****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1			Each
General Comments							

End Bent 1**Pile 8****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2	1			Each

General Comments**End Bent 1****Pile 9****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
228	Decay/Section Loss	(PM) north face at 1ft from base, decay (18in x 3in x 6in) with sister pile	3	1	1	Each
228	Check/Shake	all faces, checks (full length x up to 1/16in)	2			Each

General Comments**Bent 1****Reinforced Concrete Footing 1****Reinforced Concrete Footing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
220	Reinforced Concrete Pile Cap/Footing	33	31	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
220	Delamination/Spall	top southwest corner, spall (18in x 16in x 4in)	3	2	2	Feet

General Comments**End Bent 1****Abutment****Timber Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
216	Timber Abutment	36	0	23	13	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
216	Decay/Section Loss	(PM) 3rd and 4th boards from top starting at bay 9 moving towards east end, decay (9ft x 16in x up to full depth) with backfill loss	3	9	9	Feet
216	Decay/Section Loss	(PM) 4th board from top at west end, missing (4ft x full height x full depth) with backfill loss	3	4	4	Feet
216	Damage	leaning north (full length x up to 6in) (no change from 2016 inspection)	2	23	36	Feet

General Comments**End Bent 2****Cap 1****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
235	Timber Pier Cap	7	5	0	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
235	Decay/Section Loss	(PM) west face, decay (10in x 8in x 14in)	3	2	2	Feet

General Comments

Pile 1

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

General Comments

Pile 2

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
228	Timber Pile	1	0	1	0	0	Each

General Comments

Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	38	22	0	16	0	Feet

General Comments

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	754
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	33
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	33
Span 1	Left Bridge Rail	Steel Rail	Metal Bridge Railing	34
Span 1	Right Bridge Rail	Steel Rail	Metal Bridge Railing	34
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	732
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Timber Deck	Timber Deck	732
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	31

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 10	Plate Girder	Steel Open Girder/Beam	31
Span 2	Beam 11	Plate Girder	Steel Open Girder/Beam	31
Span 2	Left Bridge Rail	Steel Rail	Metal Bridge Railing	33
Span 2	Right Bridge Rail	Steel Rail	Metal Bridge Railing	33
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	710
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	30
Bent 1	Pile 1	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Pile	1
Bent 1	Pile 3	Timber Pile	Timber Pile	1
Bent 1	Pile 4	Timber Pile	Timber Pile	1
Bent 1	Pile 5	Timber Pile	Timber Pile	1
Bent 1		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	33
End Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	29
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Pile 6	Timber Pile	Timber Pile	1
End Bent 1	Pile 7	Timber Pile	Timber Pile	1
End Bent 1	Pile 8	Timber Pile	Timber Pile	1

Elements Verfied

Location	Name	Component	Element Name	Amount
End Bent 1	Pile 9	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	36
End Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	7
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	38

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 580312

Inspection Date: 06/04/2018

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	4
Item 61: Channel and Channel Protection	0 - 9 , N	5
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	6

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	1486	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	F	20	3350
Field Scour Evaluation		L		
Drift	G, F, P, or C	P	48	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	P		
Estimated Remaining Life	0 - 100 Years			
Superstructure Paint Code		A		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	Y
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	10
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 580312

Inspection Date: 06/04/2018

Item	Superstructure - Item 59	Grade	4	Maint Code	Qty.	0
Details	Several areas of rust scale with section loss found on beams at end bents and interior bents. Span 2 beam 5 at end bent 2 has (2) corrosion holes.					
Item	Substructure - Item 60	Grade	4	Maint Code	Qty.	0
Details	multiple areas of decay with backfill loss on end bent 1, decayed areas on base of piles were found on end bent 1, and timber abutment is leaning north approximately 6in. Temporary repairs have been done at end bent 1.					
Item	Channel and Channel Protection - Item 61	Grade	5	Maint Code	Qty.	0
Details	southwest streambank, (1) fallen tree northeast streambank, erosion with vertical cuts and exposed tree roots (35ft x 3ft x 6ft)					
Item	Approach Roadway Alignment - Item 72	Grade	6	Maint Code	Qty.	0
Details	roadway curves at both ends of the bridge causing moderate speed reduction					
Item	Sign Notice Issued	Grade	Y	Maint Code	Qty.	0
Details	(PM) narrow bridge sign missing on north approach roadway					
Item	Deck Debris	Grade	F	Maint Code	3376	Qty. 1486
Details	west shoulder, debris accumulation (full length x 2ft) (east shoulder similar)					
Item	Drift	Grade	P	Maint Code	3366	Qty. 48
Details	(PM) span 1, drift/tree accumulation (5cy)					
Item	Response to live load	Grade	P	Maint Code	Qty.	0
Details	deflections felt under live load were past serviceable limits					
Item	Wingwalls	Grade	F	Maint Code	3350	Qty. 20
Details	(PM) southwest wingwall top (2) boards, missing (3-1/2ft x full height x full depth) (PM) southwest wingwall 5th and 6th boards from top, decay (4ft x 16in x full depth) with backfill loss (PM) southeast wingwall 3rd board from top, decay (7ft x 10in x full depth) with backfill loss					
Item	General Comments and Misc Items	Grade		Maint Code	Qty.	0
Details	south approach narrow bridge sign covered with vegetation growth					



south approach narrow bridge sign covered with vegetation growth



west shoulder, debris accumulation (full length x 2ft)



Span 1 Wearing Surface: both lanes, scattered map cracking (75% of deck area x up to 1in)



Span 1 Wearing Surface: northbound lane at 3ft from end bent 1, patched area (14ft x 4ft) with pothole (18in x 12in x full depth)



Span 1 Wearing Surface: southbound lane and center of lanes near bent 1, (2) potholes (up to 30in x 16in x full depth)



Span 1 Wearing Surface: center of lanes, multiple patched areas (up to 8ft x 4ft)



Span 2 Wearing Surface: center of lanes near midspan, (2) patched areas (up to 5-1/2ft x 3-1/2ft)



Span 2 Left Bridge Rail: all posts, coating with limited effectiveness and rust (5sf)



Span 1 Right Bridge Rail: splice connection at 5ft from end bent 1, (1) missing bolt



southwest streambank, (1) fallen tree



End Bent 2 Cap 1: (PM) west face, decay (10in x 8in x 14in)



End Bent 2 Abutment/Backwall : under beams 4-8, map cracking (8ft x full height x up to 1/16in)



End Bent 2 Abutment/Backwall : northeast wingwall at base, spall (1ft x 3in x up to 2ft)



End Bent 2 Abutment/Backwall : top of northeast wingwall at end, spall (1ft x full width x 5in) with adjacent delamination (2ft x 10in)



(PM) southwest wingwall top (2) boards, missing (3-1/2ft x full height x full depth)



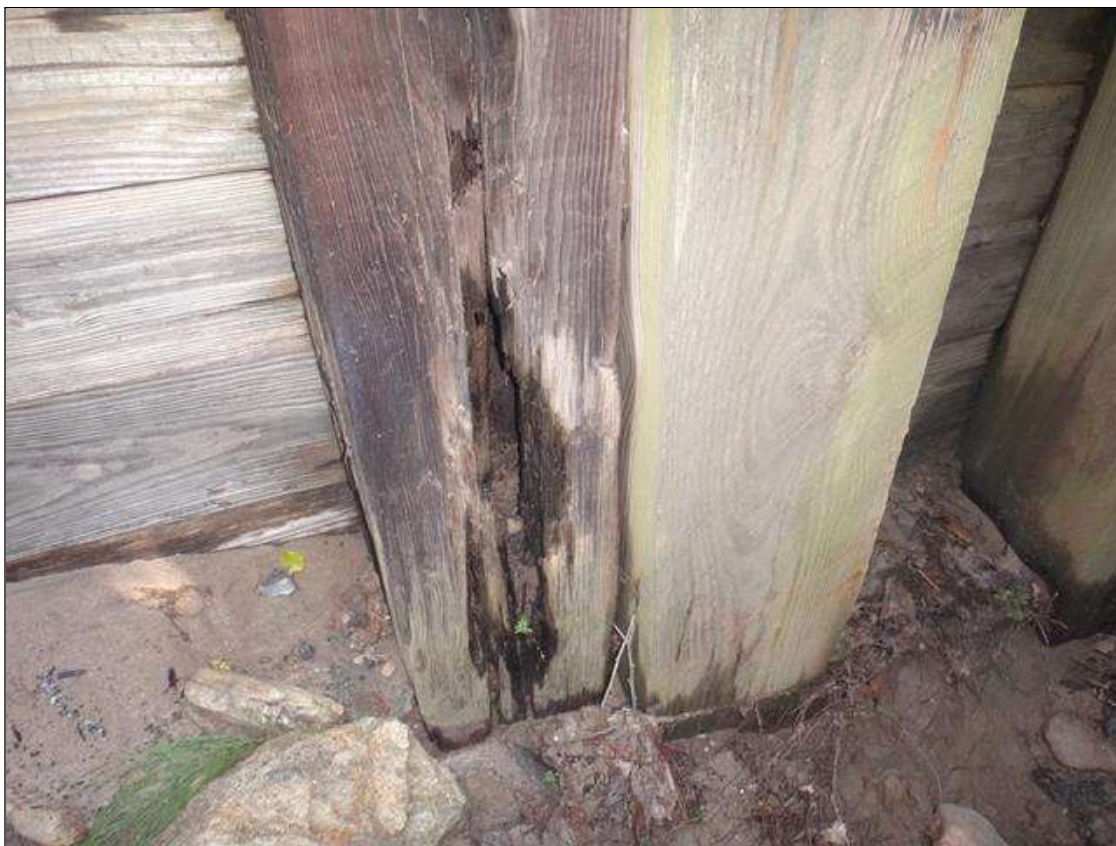
(PM) southwest wingwall 5th and 6th boards from top, decay (4ft x 16in x full depth) with backfill loss



End Bent 1 Abutment/Backwall : (PM) 4th board from top at west end, missing (4ft x full height x full depth) with backfill loss



End Bent 1 Pile 6: (PM) at 2ft from base, decay (2ft x full width x full depth) with sister pile



End Bent 1 Pile 9: (PM) north face at 1ft from base, decay (18in x 3in x 6in) with sister pile



Span 1 Deck: underside throughout all bays, soft with water stains (75%)



End Bent 1 Abutment/Backwall : (PM) 3rd and 4th boards from top starting at bay 9 moving towards east end, decay (9ft x 16in x up to full depth) with backfill loss (photo 1 of 2)



End Bent 1 Abutment/Backwall : (PM) 3rd and 4th boards from top starting at bay 9 moving towards east end, decay (9ft x 16in x up to full depth) with backfill loss (photo 2 of 2)



(PM) southeast wingwall 3rd board from top, decay (7ft x 10in x full depth) with backfill loss



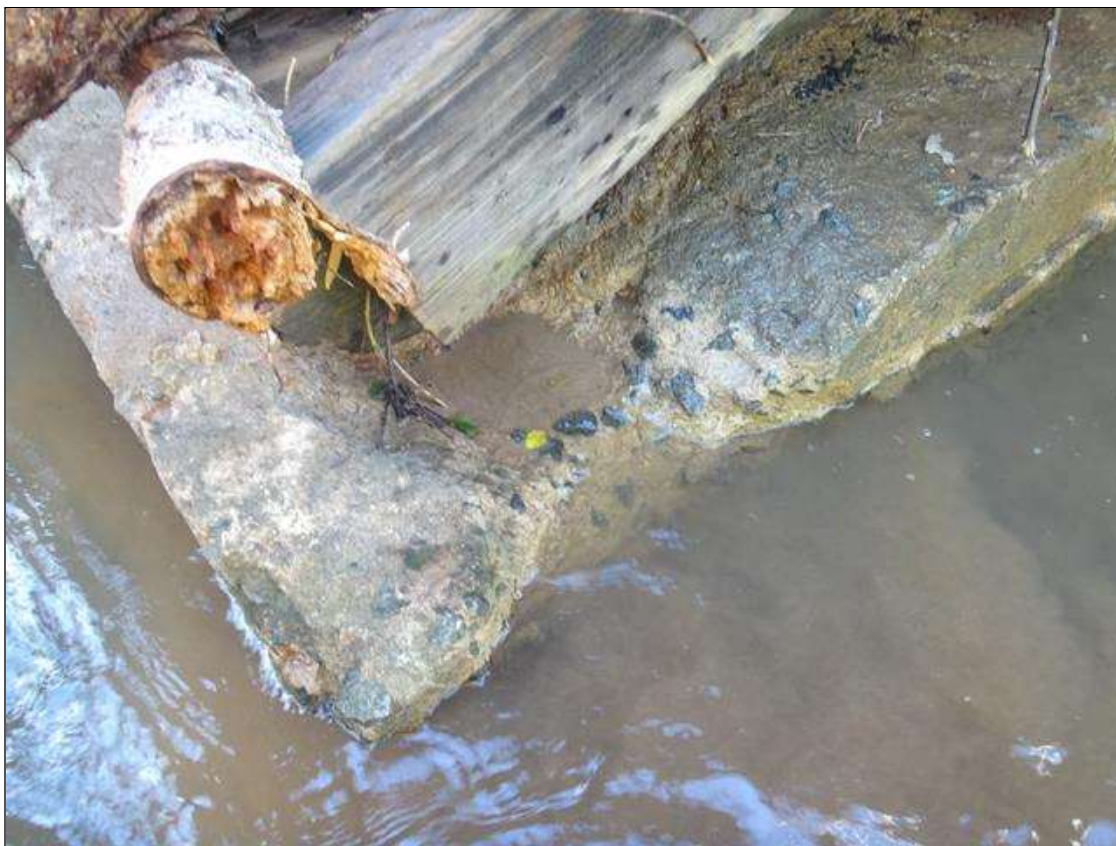
End Bent 1 Abutment/Backwall : leaning north (full length x up to 6in) (no change from 2016 inspection) (photo 1 of 2)



End Bent 1 Abutment/Backwall : leaning north (full length x up to 6in) (no change from 2016 inspection) (photo 2 of 2)



(PM) span 1, drift/tree accumulation (5cy)



Bent 1 Footing: top southwest corner, spall (18in x 16in x 4in)



Bent 1 Pile 1: (PM) south face near mid-height, decay (9in x 3in x 3in)



Bent 1 Pile 3: all faces, checks (full length x up to 1/16in)



Bent 1 Pile 2: south face below cap, check (4ft x 1/2in x 1in)



Span 1 Beam 1: bottom flange at end bent 1, rust scale with section loss (18in x full width) (0.51in avg rem)



Span 1 Beam 1 Near Bearing: rust scale with section loss (10%)



Span 1 Beam 9: (PM) bottom flange at end bent 1, rust scale with section loss (30in x full width) (0.35in avg rem)



Span 1 Beam 9: top flange at end bent 1, rust scale with section loss (30in x full width) (1/2in avg rem)



Span 1 Beam 10: (PM) bottom flange at end bent 1, rust scale with section loss (18in x full width) (0.46in avg rem)



Span 1 Beam 10: top flange at end bent 1, rust scale with section loss (2ft x full width) (1/2in avg rem)



Span 1 Beam 11: top flange at end bent 1, rust scale with section loss (30in x full width) (1/2in avg rem)



Span 1 Beam 11: (PM) bottom flange at end bent 1, rust scale with section loss (2ft x full width) (0.32in avg rem)



northeast streambank, erosion with vertical cuts and exposed tree roots (35ft x 3ft x 6ft)



Span 2 Beam 3: (PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.12in at edge) (0.30in avg rem)



Span 2 Beam 2: (PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.15in at edge) (0.35in avg rem)



Span 2 Beam 2: (PM) bottom flange at end bent 2, rust scale with section loss (30in x full width) (0.36in avg rem)



Span 2 Beam 3: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.43in avg rem)



Span 2 Beam 4: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.38in avg rem)



Span 2 Beam 5: (PM) bottom flange at end bent 2, rust scale with section loss (4ft x full width x down to knife edge) (0.17in avg rem) with (2) corrosion holes (up to 7in x 1-1/2in) (photo 1 of 2)



Span 2 Beam 5: (PM) bottom flange at end bent 2, rust scale with section loss (4ft x full width x down to knife edge) (0.17in avg rem) with (2) corrosion holes (up to 7in x 1-1/2in) (photo 2 of 2)



Span 2 Beam 6: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.39in avg rem)



Span 2 Beam 7: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.33in avg rem)



Span 2 Beam 7: (PM) bottom flange near midspan, rust scale with section loss (12ft x full width) (0.32in avg rem)



Span 2 Beam 6: both flanges and web, scattered paint failure with rust scale (full length x full width) on flanges, and (full length x up to full height) on web



End Bent 2 Abutment/Backwall : top of northeast wingwall, spall (4ft x full width x 4in)



narrow bridge sign (south approach) at approximately 0.1 miles from structure



north approach looking south



bridge posting



west bridge rail



east bridge rail



looking upstream, west



asphalt over end bent 2



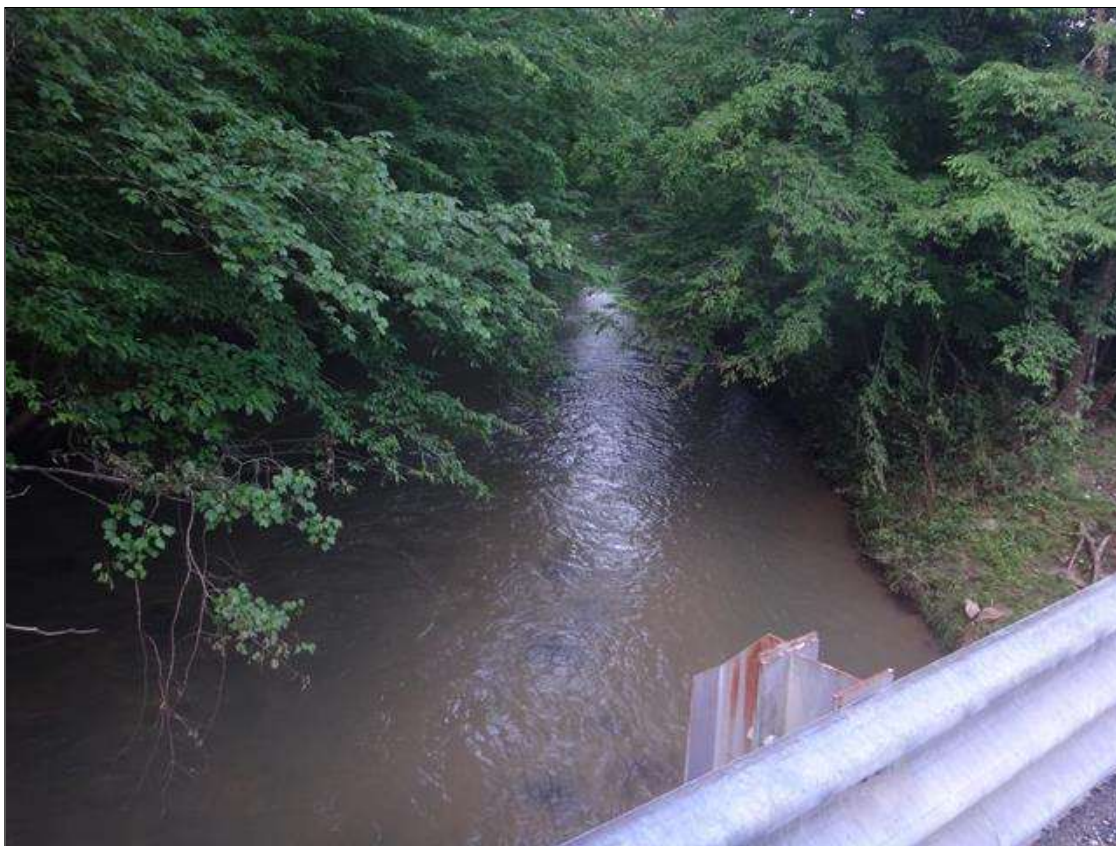
asphalt over bent 1



asphalt over end bent 1



south approach looking north



looking downstream, east



asphalt wearing surface



northwest wingwall



end bent 2



upstream profile, looking east



underside of deck



bent 1



northeast wingwall



bridge rail attachment



downstream profile, looking west



end bent 1



southeast wingwall



southwest wingwall



beams over bent 1



intermediate diaphragm



interior bearing assembly



end bearing assembly



ladder on end bent

Stream Bed Soundings

(Profile diagram on following sheet)

County **MCDOWELL**

Structure Number: **580312**

Inspection Date **06/04/2018**

Sounding recorded from: **Top of Bridge Rail**

Highwater Mark Distance

Location of Highwater Mark **NONE FOUND**

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.000	0.000	FILL FACE
0.250	2.000	0.000	TOP OF BULKHEAD
0.260	4.100	0.000	TOP OF CAP
1.260	4.100	0.000	TOP OF CAP
1.270	9.300	10.200	GROUND AT CAP
6.000	11.300	0.000	GROUND
16.000	11.400	0.000	GROUND
17.000	12.700	0.000	GROUND
24.000	12.700	0.000	GROUND
33.250	11.500	12.500	BENT 1
37.000	12.600	0.000	GROUND
39.500	13.100	0.000	Water Surface/Water Edge (WSWE)
45.000	14.500	0.000	STREAMBED
50.000	15.000	0.000	STREAMBED
64.220	13.100	0.000	Water Surface/Water Edge (WSWE)
64.230	12.500	11.800	GROUND AT CAP
64.240	4.100	0.000	TOP OF CAP
65.240	4.100	0.000	TOP OF CAP
65.250	2.500	0.000	TOP OF BULKHEAD
65.500	2.500	0.000	FILL FACE

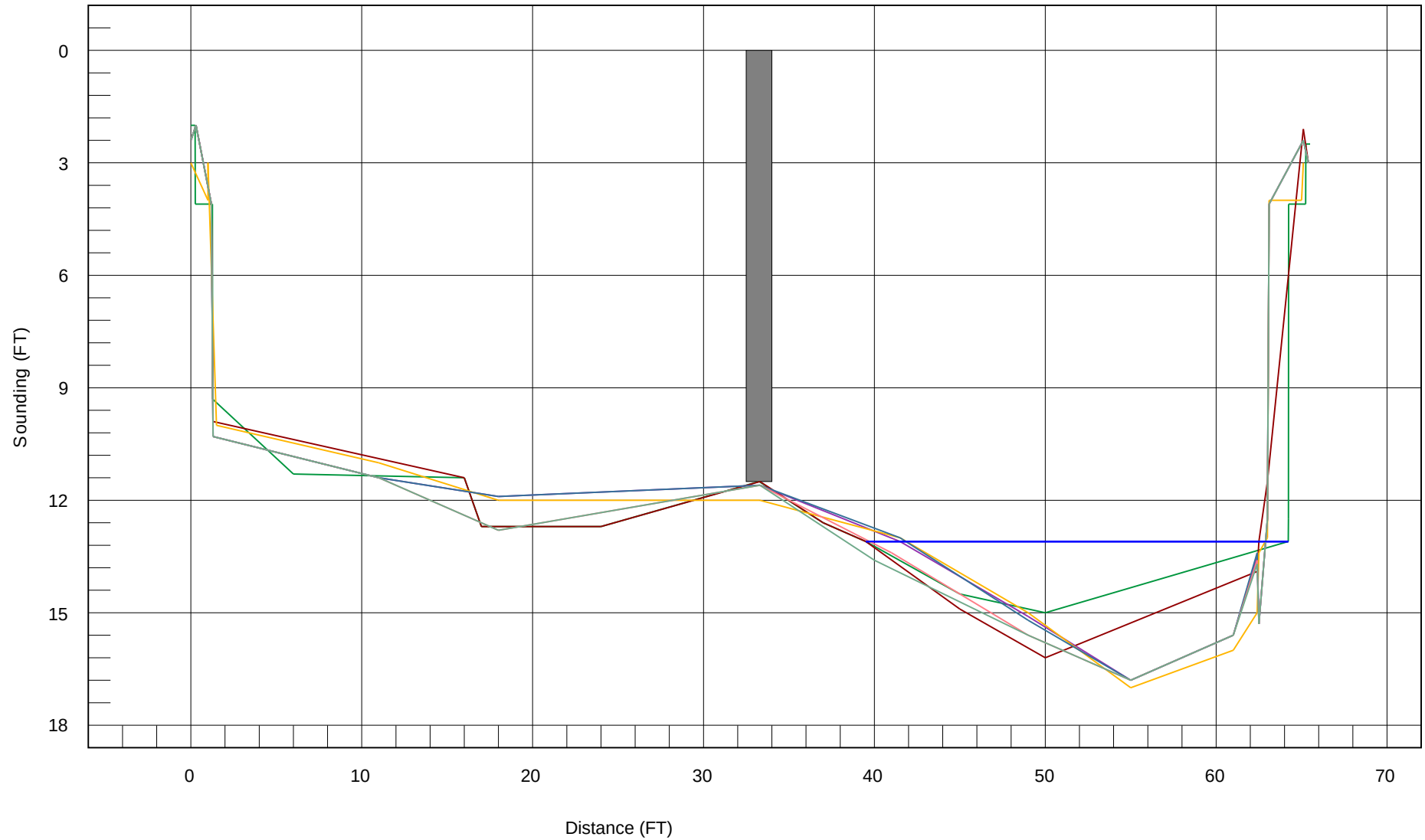
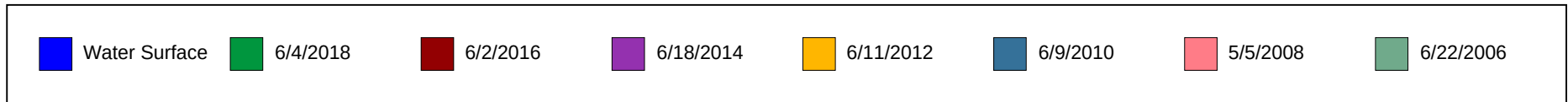
Bridge: 580312

County: MCDOWELL

Date: 06/04/2018

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

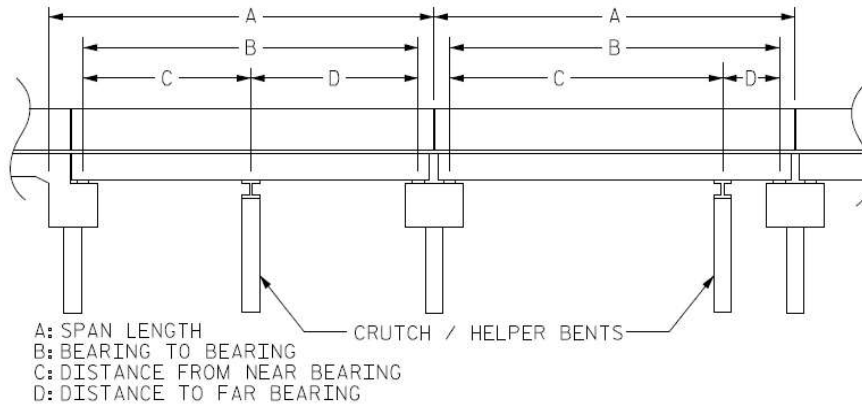


Structure Data Worksheet

Span Profile

County: **MCDOWELL**

Structure Number: **580312**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	33.250	32.563			
2	32.250	30.667			

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

Run Date: 08/08/2018

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	580312		SUFFICIENCY RATING =	35.85
(8) STRUCTURE NUMBER(FEDERAL)		000000001110312		STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31017810			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1			
(3) COUNTY CODE	111	(4) PLACE CODE	0		
(6) FEATURE INTERSECTED -	SECOND BROAD RIVER				
(7) FACILITY CARRIED	SR1781				
(9) LOCATION	.3 MI.N.JCT.US221				
(11)MILEPOINT		0			
(16)LAT	35° 31' 51.38"	(17)LONG	81° 58' 5.25"		
(98)BORDER BRIDGE STATE CODE		PCT SHARE			
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN:	Steel				
TYPE -	Stringer Mutlibeam or Girder	CODE	302		
(44) STRUCTURE TYPE APPR :					
TYPE -		CODE	000		
(45) NUMBER OF SPANS IN MAIN UNIT			2		
(46) NUMBER OF APPROACH SPANS					
(107)DECK STRUCTURE TYPE -	8	CODE			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :					
(A) TYPE OF WEARING SURFACE -		CODE			
(B) TYPE OF MEMBRANE -		CODE			
(C) TYPE OF DECK PROTECTION -		CODE			
AGE AND SERVICE					
(27) YEAR BUILT			1960		
(106)YEAR RECONSTRUCTED			1980		
(42) TYPE OF SERVICE : ON -	Highway				
UNDER -	Waterway	CODE	15		
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		0		
(29) AVERAGE DAILY TRAFFIC			170		
(30) YEAR OF ADT	2013	(109) TRUCK ADT PCT	6%		
(19) BYPASS OR DETOUR LENGTH			6 MI		
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN			33 FT		
(49) STRUCTURE LENGTH			66 FT		
(50)CURB OR SIDEWALK: LEFT	0 FT RIGHT		0 FT		
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			22 FT		
(52) DECK WIDTH OUT TO OUT			22.667 FT		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			21 FT		
(33) BRIDGE MEDIAN -	No Median	CODE	0		
(34) SKEW	45°	(35) STRUCTURE FLARED	0		
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			22 FT		
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT		
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT		
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT		
(56) MIN LAT UNDERCLEAR LT REF -			000 FT		
NAVIGATION DATA					
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0		
(111)PIER PROTECTION -		CODE			
(39) NAVIGATION VERTICAL CLEARANCE			0		
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT		
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT		
CLASSIFICATION					
(112)NBIS BRIDGE SYSTEM -			YES		
(104)HIGHWAY SYSTEM	Is not on NHS		0		
(26) FUNCTIONAL CLASS -	Minor Collector		08		
(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0		
(101)PARALLEL STRUCTURE -	No Parallel Structure		N		
(102)DIRECTION OF TRAFFIC -	2-way Traffic		2		
(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions		T		
(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network		0		
(20) TOLL	On Free Road		3		
(31) MAINTAIN -	State Highway Agency		01		
(22) OWNER -	State Highway Agency		01		
(37) HISTORICAL SIGNIFICANCE -	Not Eligible		5		
CONDITION					
(58) DECK			6		
(59) SUPERSTRUCTURE			4		
(60) SUBSTRUCTURE			4		
(61) CHANNEL & CHANNEL PROTECTION			5		
(62) CULVERTS			N		
LOAD RATING AND POSTING					
(31) DESIGN LOAD	Unknown		0		
(63) OPERATING RATING METHOD -	Allowable Stress		2		
(64) OPERATING RATING -	HS-13		23		
(65) INVENTORY RATING METHOD -	Allowable Stress		2		
(66) INVENTORY RATING -	HS-9		16		
(70) BRIDGE POSTING -	Posting Required		0		
(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P		
DESCRIPTION -	Posted for Load				
APPRAISAL					
(67) STRUCTURAL EVALUATION			4		
(68) DECK GEOMETRY			4		
(69) UNDERCLEARANCES,VERTI & HORIZ			N		
(71) WATERWAY ADEQUACY			7		
(72) APPROACH ROADWAY ALIGNMENT			6		
(36) TRAFFIC SAFETY FEATURES			0000		
(113)SCOUR CRITICAL BRIDGES			U		
PROPOSED IMPROVEMENTS					
(75) TYPE OF WORK -			CODE		
(76) LENGTH OF STRUCTURE IMPROVEMENT					
(94) BRIDGE IMPROVEMENT COST					
(95) ROADWAY IMPROVEMENT COST					
(96) TOTAL PROJECT COST					
(97) YEAR OF IMPROVEMENT COST ESTIMATE					
(114)FUTURE ADT	340	(115) YEAR FUTURE ADT	2025		
INSPECTIONS					
(90) INSPECTION DATE			06/04/2018		
(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE		
A) FRACTURE CRIT DETAIL -	NO		A)		
B) UNDERWATER INSP -	NO		B)		
C) OTHER SPECIAL INSP	NO		C)		
SCOUR					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 08/08/2018

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
MCDOWELL	13	1	580312	66	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1781	SECOND BROAD RIVER

LOCATED :	BRIDGE NAME :	CITY :
.3 MI.N.JCT.US221		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	170 2013	LT 253 RT 253

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1960	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
1980	BMU	5.8751	TAN	135	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		13 FT		2		FT

SUPERSTRUCTURE :	TIMBER FLOOR ON SALVAGED I-BEAMS
------------------	----------------------------------

SUBSTRUCTURE :	E.BT.1:TIM.CAP/PILES;BT:TIM.CAP/TIM.P&S;ABUT2:RC W/TIMBER RISER
----------------	---

SPANS :	1 @ 33'-3,1 @ 32'-3
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BEAMS OR GIRDERS :	11 LINES 15 I-BEAMS @ 2'-1 CENTERS
--------------------	------------------------------------

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
3X4 TIM/2 AWS		22.667 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
22 FT	22 FT	LT 0 FT RT 0 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-9	HS-13	SpB10 (2Holes)	SV 18	TTST 21	DATE	09/10/2012	

SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

Date: 06/04/2018

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 0	No Maintenance Required	NA	6	(PM) southeast wingwall 5th and 6th boards from top, decay (4ft x 16in x full depth) with backfill loss	
 0	No Maintenance Required	NA	1	(PM) narrow bridge sign missing on north approach roadway	
 3314	Maintain Steel Superstructure Components	LF	3	Span 1 Beam 9: (PM) bottom flange at end bent 1, rust scale with section loss (30in x full width) (0.35in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 10: (PM) bottom flange at end bent 1, rust scale with section loss (18in x full width) (0.46in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 11: (PM) bottom flange at end bent 1, rust scale with section loss (2ft x full width) (0.32in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 3: (PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.12in at edge) (0.30in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 2: (PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.15in at edge) (0.35in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	3	Span 2 Beam 2: (PM) bottom flange at end bent 2, rust scale with section loss (30in x full width) (0.36in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 3: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.43in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 4: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.38in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	4	Span 2 Beam 5: (PM) bottom flange at end bent 2, rust scale with section loss (4ft x full width x down to knife edge) (0.17in avg rem) with (2) areas of missing steel (up to 7in x 1-1/2in)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 6: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.39in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 7: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.33in avg rem)	
 3314	Maintain Steel Superstructure Components	LF	12	Span 2 Beam 7: (PM) bottom flange near midspan, rust scale with section loss (12ft x full width) (0.32in avg rem)	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

Date: 06/04/2018

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	2	End Bent 2 Cap 1: west face, decay hole (10in x 8in x 14in)	
 3344	Repair / Replace Timber Substructure Components	LF	1	End Bent 1 Pile 6: (PM) at 2ft from base, decay (2ft x full width x full depth) with sister pile	
 3344	Repair / Replace Timber Substructure Components	LF	1	End Bent 1 Pile 9: (PM) north face at 1ft from base, decay (18in x 3in x 6in) with sister pile	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	4	End Bent 1 Abutment/Backwall : (PM) 4th board from top at west end, missing (4ft x full height x full depth) with backfill loss	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	9	End Bent 1 Abutment/Backwall : (PM) 3rd and 4th boards from top starting at bay 9 moving towards east end, decay (9ft x 16in x up to full depth) with backfill loss	
0	No Maintenance Required	NA	7	(PM) southeast wingwall 3rd board from top, decay (7ft x 10in x full depth) with backfill loss	
0	No Maintenance Required	NA	4	(PM) southwest wingwall top (2) boards, missing (3-1/2ft x full height x full depth)	
0	No Maintenance Required	NA	5	(PM) span 1, drift/tree accumulation (5cy)	
3344	Repair / Replace Timber Substructure Components	LF	1	Bent 1 Pile 1: (PM) south face near mid-height, decay (9in x 3in x 3in)	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
0	No Maintenance Required	6 NA
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
(PM) southeast wingwall 5th and 6th boards from top, decay (4ft x 16in x full depth) with backfill loss		

MMS Code	MMS Description	Quantity
0	No Maintenance Required	1 NA
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
(PM) narrow bridge sign missing on north approach roadway		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 1 Beam 9: (PM) bottom flange at end bent 1, rust scale with section loss (30in x full width) (0.35in avg rem)		

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 1 Beam 10: (PM) bottom flange at end bent 1, rust scale with section loss (18in x full width) (0.46in avg rem)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 1 Beam 11: (PM) bottom flange at end bent 1, rust scale with section loss (2ft x full width) (0.32in avg rem)		

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 3: (PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.12in at edge) (0.30in avg rem)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 2: (PM) bottom flange at bent 1, rust scale with section loss (18in x full width x 0.15in at edge) (0.35in avg rem)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 2: (PM) bottom flange at end bent 2, rust scale with section loss (30in x full width) (0.36in avg rem)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 3: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.43in avg rem)		

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 4: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.38in avg rem)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	4 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 5: (PM) bottom flange at end bent 2, rust scale with section loss (4ft x full width x down to knife edge) (0.17in avg rem) with (2) areas of missing steel (up to 7in x 1-1/2in)		

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 6: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.39in avg rem)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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 Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 7: (PM) bottom flange at end bent 2, rust scale with section loss (2ft x full width) (0.33in avg rem)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	12 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
Span 2 Beam 7: (PM) bottom flange near midspan, rust scale with section loss (12ft x full width) (0.32in avg rem)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
End Bent 2 Cap 1: west face, decay hole (10in x 8in x 14in)		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
End Bent 1 Pile 6: (PM) at 2ft from base, decay (2ft x full width x full depth) with sister pile		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
End Bent 1 Pile 9: (PM) north face at 1ft from base, decay (18in x 3in x 6in) with sister pile		

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
End Bent 1 Abutment/Backwall : (PM) 4th board from top at west end, missing (4ft x full height x full depth) with backfill loss		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	9 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
End Bent 1 Abutment/Backwall : (PM) 3rd and 4th boards from top starting at bay 9 moving towards east end, decay (9ft x 16in x up to full depth) with backfill loss		

MMS Code	MMS Description	Quantity
0	No Maintenance Required	7 NA
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
06/04/2018	RICARDO CORNEJO	
Details		
(PM) southeast wingwall 3rd board from top, decay (7ft x 10in x full depth) with backfill loss		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
0	No Maintenance Required	4 NA
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
06/07/2018	RICARDO CORNEJO	
Details		
(PM) southwest wingwall top (2) boards, missing (3-1/2ft x full height x full depth)		

MMS Code	MMS Description	Quantity
0	No Maintenance Required	5 NA
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
06/08/2018	RICARDO CORNEJO	
Details		
(PM) span 1, drift/tree accumulation (5cy)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 580312

County MCDOWELL

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
06/08/2018	RICARDO CORNEJO	
Details		
Bent 1 Pile 1: (PM) south face near mid-height, decay (9in x 3in x 3in)		

Bridge Inspection Field Sketch



Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6.5ft Wide	1.5ft Paved	5ft Unpaved
Right Shoulder	5.5ft Wide	1.5ft Paved	4ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS TAKEN APPROXIMATELY 10FT FROM END BENT 1

Title
APPROACH ROADWAY

Description
DATA WORKSHEET

Bridge No: 580312

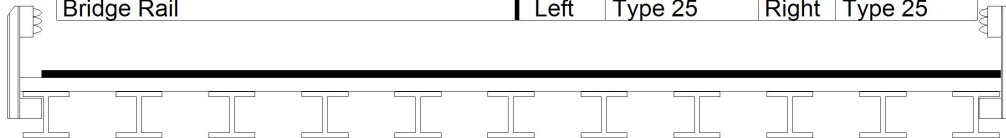
Drawn By: H. BONILLA

Date: 6/4/18

File Name: S0114000686

Bridge Inspection Field Sketch

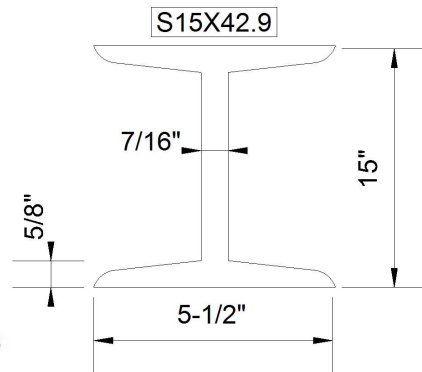
Deck Width/Out to Out	22.667ft	Between Rails			22ft
Clear Roadway	22ft	Wearing Surface			0.167ft
Median Width		Median Height			
Curb Height		Left		Right	
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	*0.292ft	Right	*0.292ft
Top of Rail to Deck/Wearing Surface		Left	2.083ft	Right	2.083ft
Bridge Rail		Left	Type 25	Right	Type 25



Measurements for Span #	1	SPAN 2 SIMILAR	
Deck Thickness	0.312ft	Left Overhang	0.917ft
Top of Rail to Bottom of Beam	4.125ft	Right Overhang	0.917ft

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.083ft	
2	Steel I Beam	2.083ft	
3	Steel I Beam	2.083ft	
4	Steel I Beam	2.083ft	
5	Steel I Beam	2.083ft	
6	Steel I Beam	2.083ft	
7	Steel I Beam	2.083ft	
8	Steel I Beam	2.083ft	
9	Steel I Beam	2.083ft	
10	Steel I Beam	2.083ft	
11	Steel I Beam		

BEAM DIMENSION



*REVISED BY: H. BONILLA 6/4/2018

Title

TOP SIDE

Description

TOP & BOTTOM SIDE DATA

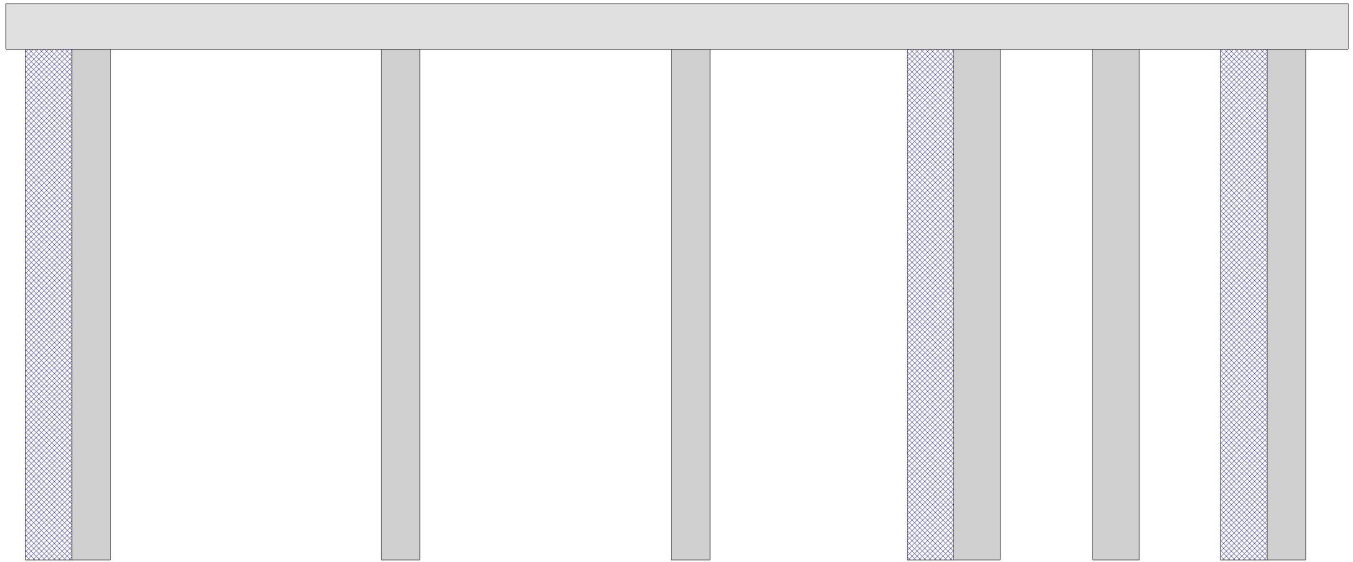
Bridge No: 580312

Drawn By: MER

Date: 4/25/08

File Name: S0114000687

Bridge Inspection Field Sketch



Cap Information			Material Steel							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
28.917 ft.	.979 ft.	.979 ft.	.917 ft.	1.333 ft.	1.500 ft.	1.167 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	0.917 ft.	1 ft.	1 ft.		Vertical	No	Yes	No	No
2	Timber	6.667 ft.	0.833 ft.	0.833 ft.		Vertical	Yes	No	No	No
3	Timber	6.25 ft.	0.833 ft.	0.833 ft.		Vertical	Yes	No	No	No
4	Timber	5.167 ft.	0.833 ft.	0.833 ft.		Vertical	Yes	No	No	No
5	Timber	1 ft.	1 ft.			Vertical	No	Yes	No	No
6	Timber	3 ft.	1 ft.	0.833 ft.		Vertical	Yes	No	No	No
7	Timber	2.75 ft.	1 ft.	1 ft.		Vertical	Yes	No	No	No
8	Timber	0.917 ft.	1 ft.	1 ft.		Vertical	No	Yes	No	No
9	Timber		.833 ft.	0.833 ft.		Vertical	Yes	No	No	No
Bent/Abutment #: 1			Similar Bents:							

Title
ABUTMENT 1

Description
DATA WORKSHEET

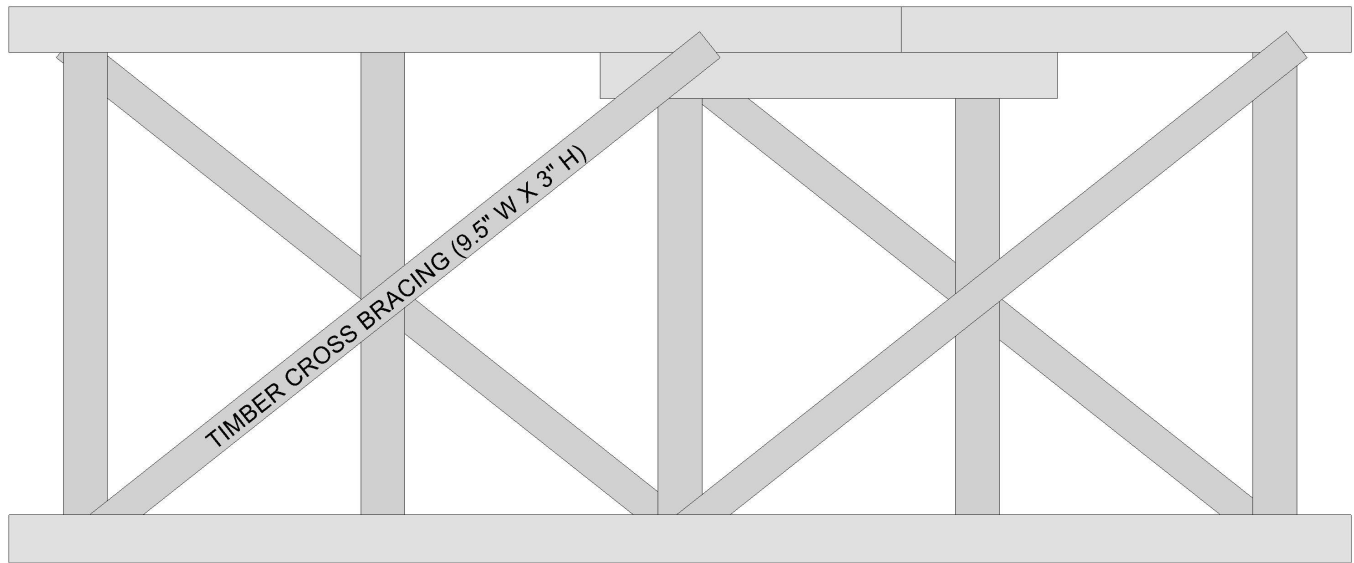
Bridge No: 580312

Drawn By: H. BONILLA

Date: 6/4/18

File Name: S0114000689

Bridge Inspection Field Sketch



Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
29.333 ft.	.958 ft.	1.000 ft.	1.667 ft.	1.667 ft.	1.750 ft.	1.750 ft.

Subcap Information			Material Timber		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.
10.000 ft.	.958 ft.	1.000 ft.	1.750 ft.	1.750 ft.	4.333 ft.

Sill Information			Material Cast-in-Place Concrete			
Length	Width	Height				
33.000 ft.	3.000 ft.	1.500 ft.				

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6.5 ft.	0.9583 ft.			Vertical	No	No	No	No
2	Timber	6.5 ft.	0.9583 ft.			Vertical	No	No	No	No
3	Timber	6.5 ft.	0.9583 ft.			Vertical	No	No	No	No
4	Timber	6.5 ft.	0.9583 ft.			Vertical	No	No	No	No
5	Timber		0.9583 ft.			Vertical	No	No	No	No

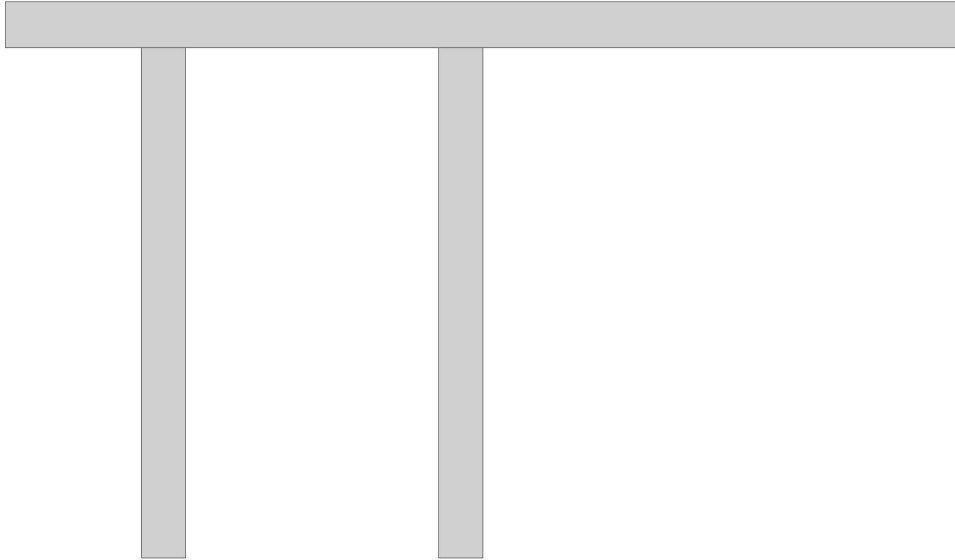
VERIFIED BY: H. BONILLA 6/4/2018

Bent/Abutment #: 1 Similar Bents:

Title	Description
PIER DATA SKETCH	PIER DATA SKETCH

Bridge No: 580312	Drawn By: MER	Date: 4/25/08	File Name: S0114000690
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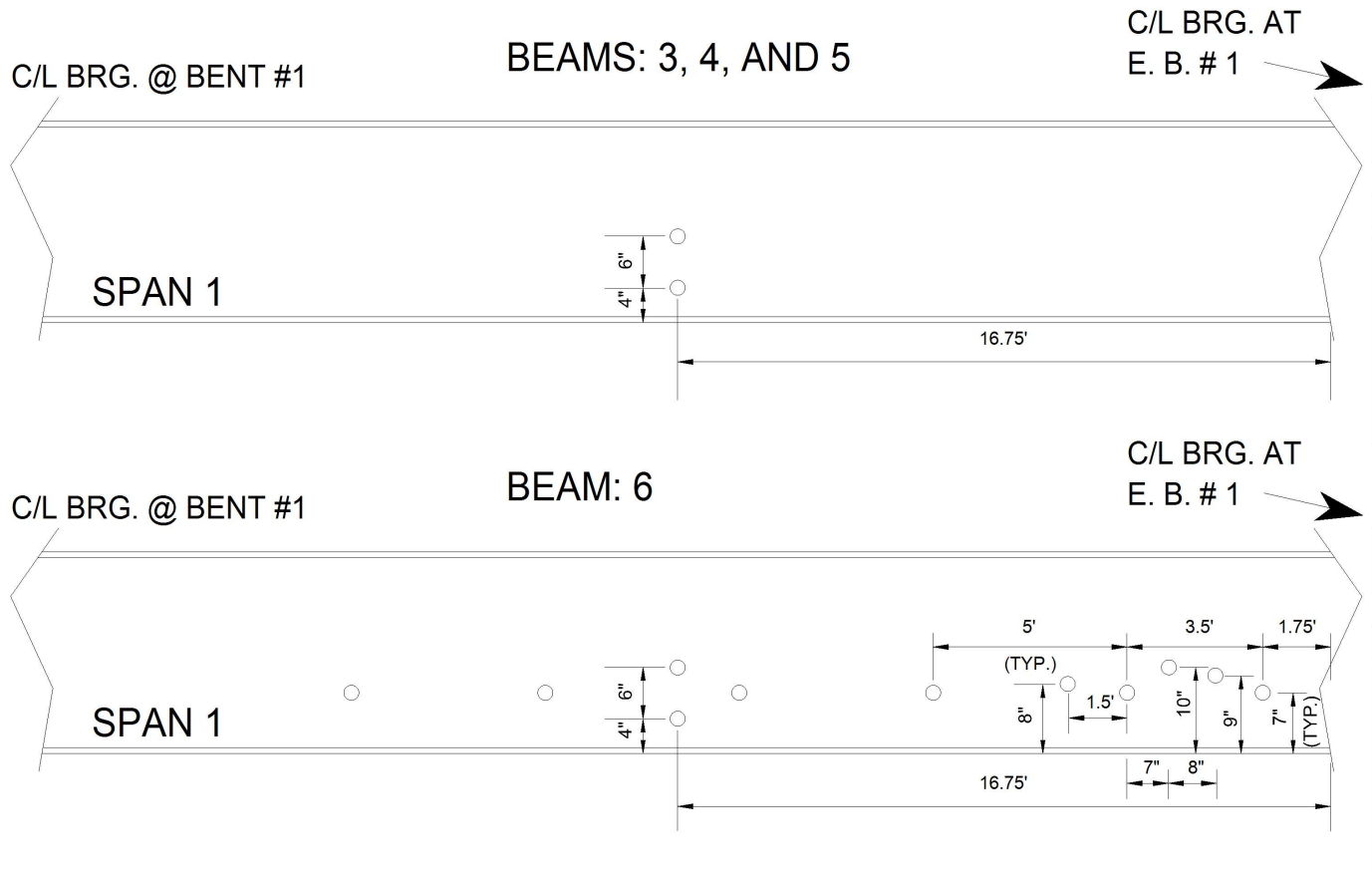
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.		Right Beam to End of Cap.			
6.083 ft.	.979 ft.	.833 ft.	.833 ft.	4.000 ft.	2.750 ft.					
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1.25 ft.	0.9583 ft.	0.7917 ft.		Vertical	*Yes	No	No	No
2	Timber		0.9583 ft.	0.7917 ft.		Vertical	*Yes	No	No	No
THE RIGHT END OF THE CAP BEARS ON THE UPSTREAM END OF THE CONCRETE PORTION OF ABUT. 2. ALSO THERE IS A 0.7917 WIDE X 0.0146 HIGH TIMBER RISER ON TOP OF THE CONCRETE CAP @ ABUT. 2 THAT BMS. 2 THROUGH 11 BEAR ON. ALSO THERE IS A 37.75FT LONG CONCRETE ABUTMENT. *REVISED BY: H. BONILLA 6/4/2018										
Bent/Abutment #: 2			Similar Bents:							

Title ABUTMENT 2		Description ABUT. 2 DATA	
Bridge No: 580312	Drawn By: MER	Date: 4/25/08	File Name: S0114000691

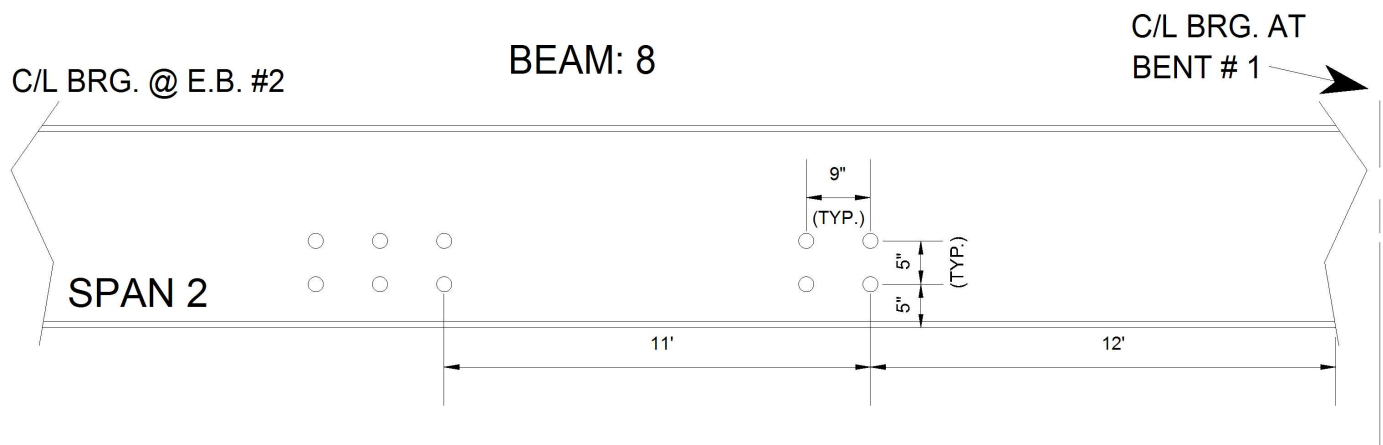
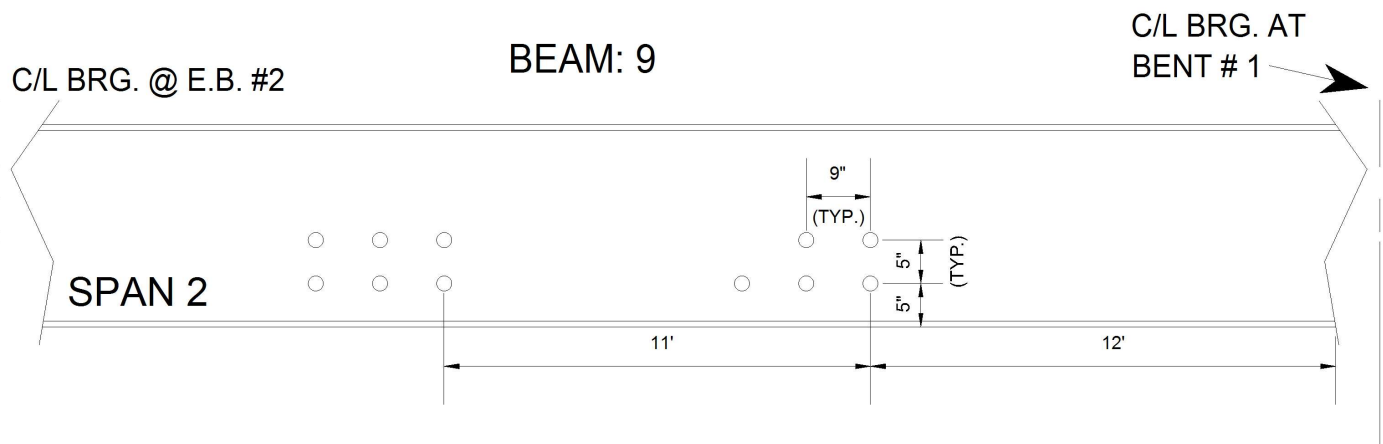
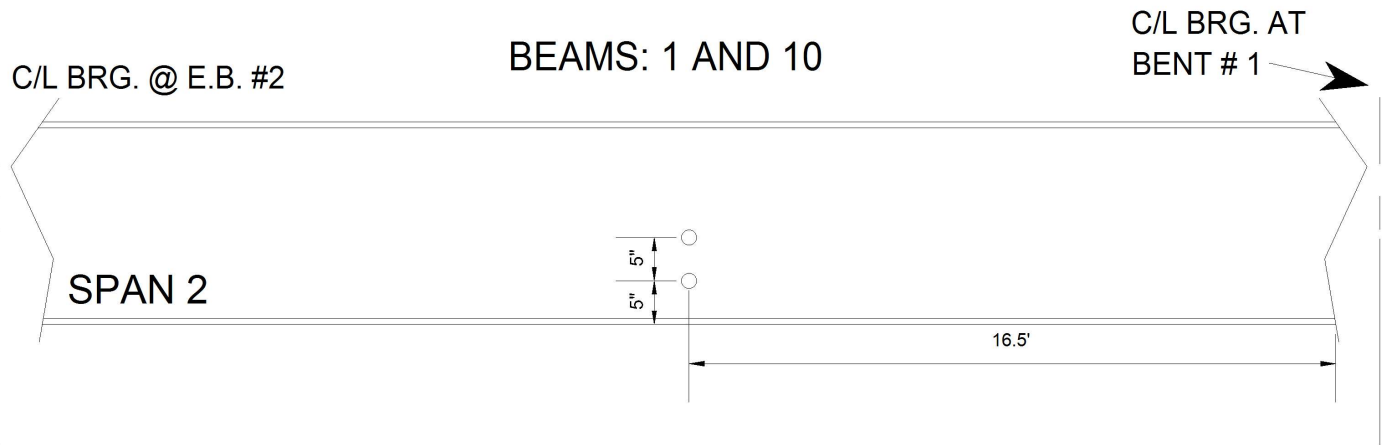
Bridge Inspection Field Sketch



ALL HOLES ARE 3/4" DIAM. DRILLED

Title		Description	
SALVAGE BEAMS 1		DATA WORKSHEET	
Bridge No:	580312	Drawn By:	H. BONILLA
Date:	6/4/2018	File Name:	S0518000428

Bridge Inspection Field Sketch



ALL HOLES ARE 3/4" DIAM. DRILLED

Title

SALVAGE BEAMS 2

Description

DATA WORKSHEET

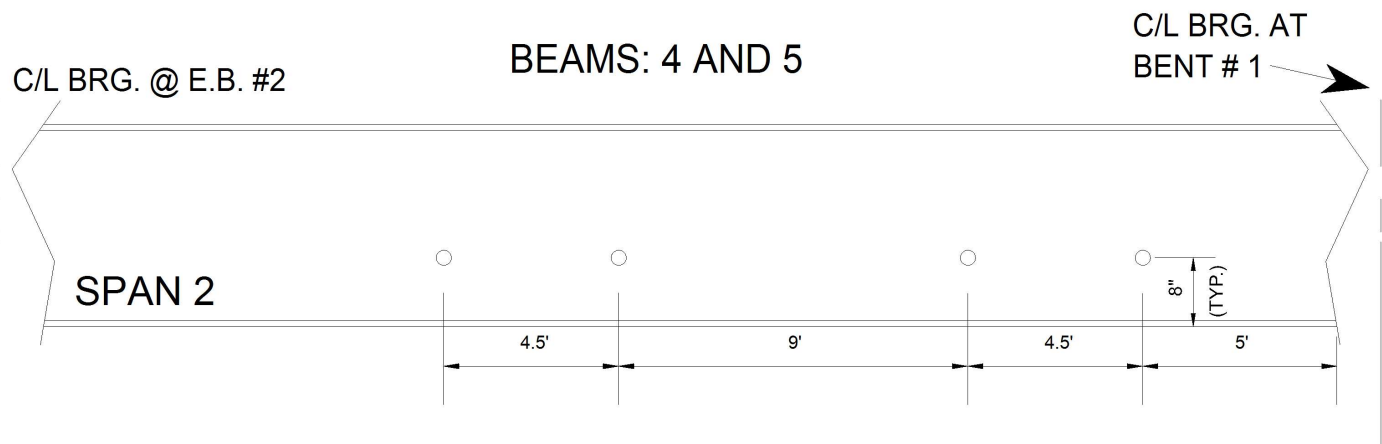
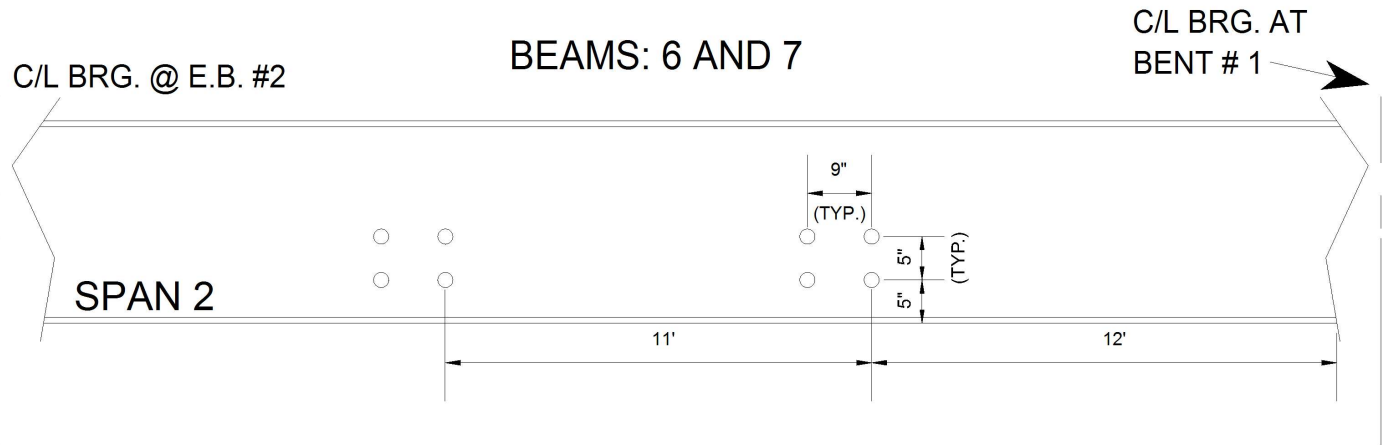
Bridge No: 580312

Drawn By: H. BONILLA

Date: 6/4/2018

File Name: S0518000426

Bridge Inspection Field Sketch



ALL HOLES ARE 3/4" DIAM. DRILLED

Title

SALVAGE BEAMS 3

Description

DATA WORKSHEET

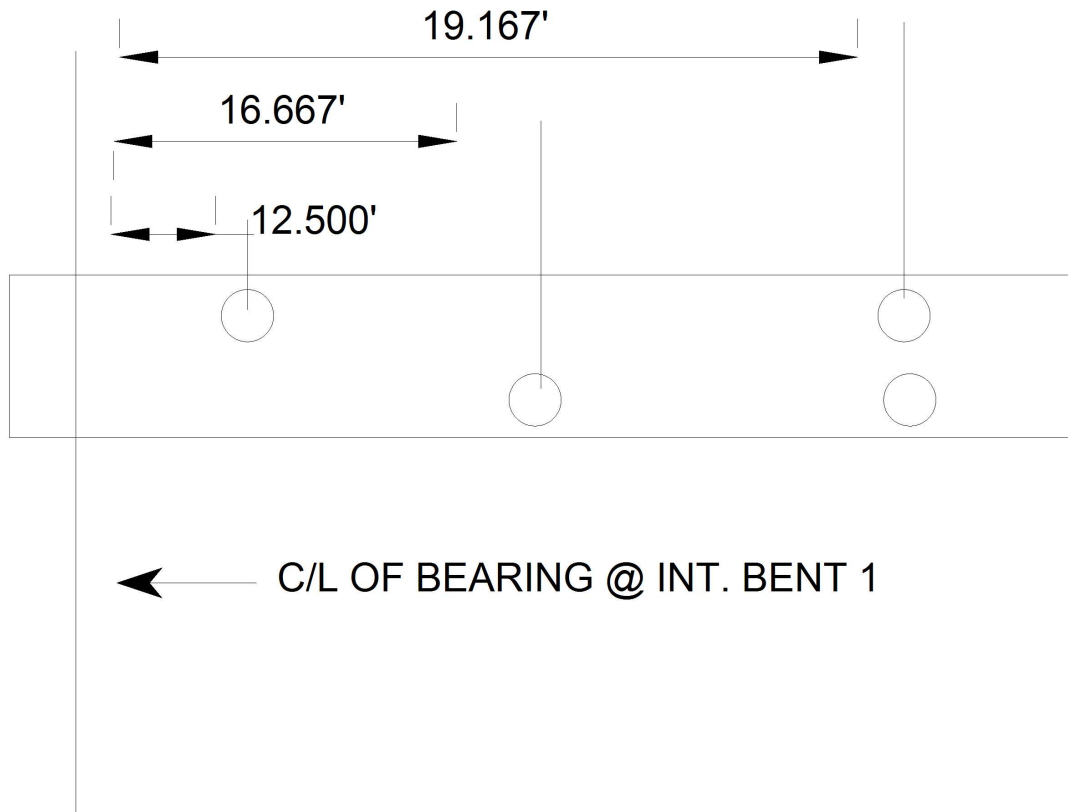
Bridge No: 580312

Drawn By: H. BONILLA

Date: 6/4/2018

File Name: S0518000427

Bridge Inspection Field Sketch



BOTTOM FLANGE OF BEAM 10 IN SPAN 2
HOLES ARE 11/16 DIAMETER DRILLED

VERIFIED BY: H. BONILLA 6/4/2018

Title

HOLES IN FLANGES

Description

HOLES IN BEAM 10 SPAN B

Bridge No: 580312

Drawn By: MER

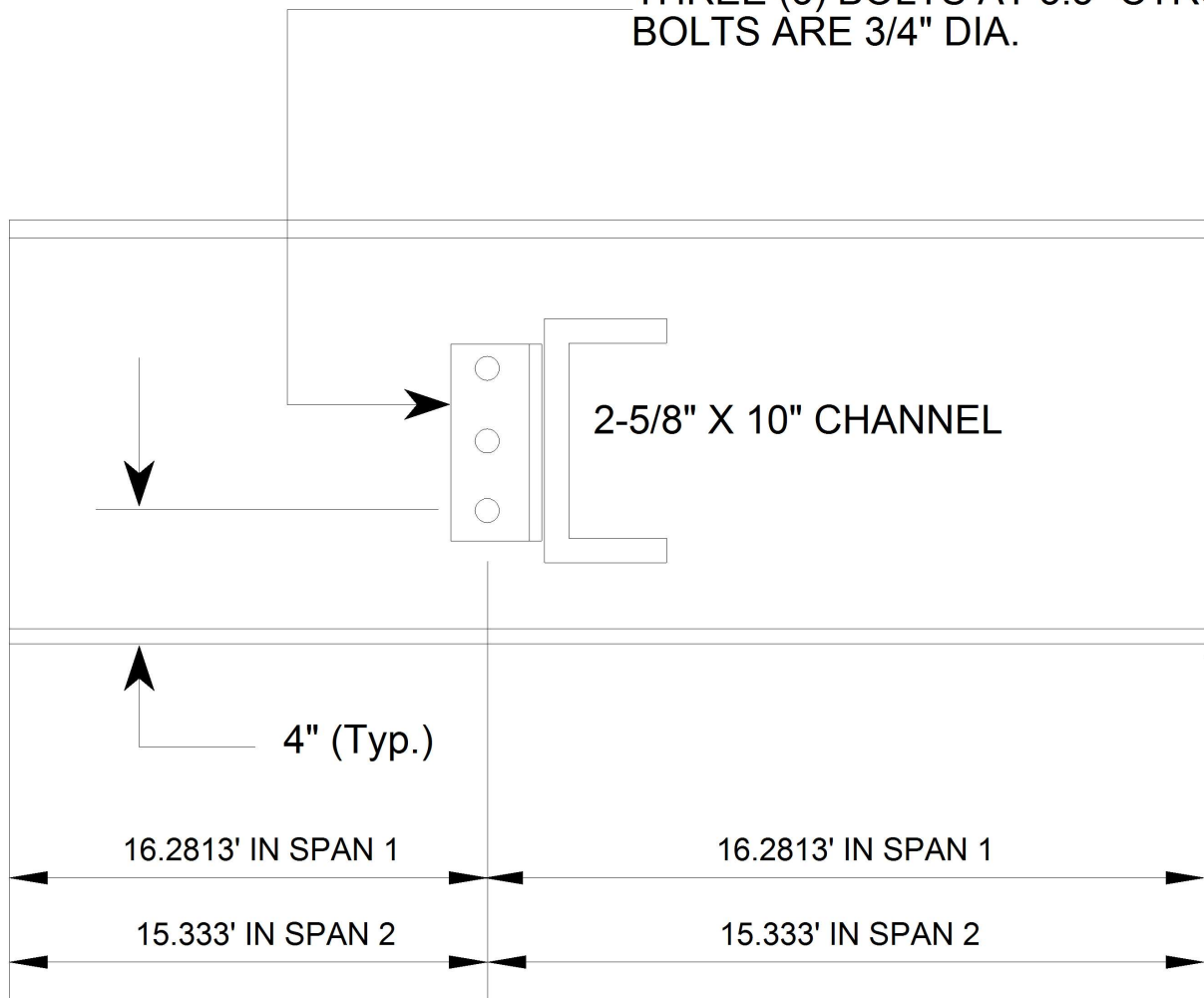
Date: 4/25/08

File Name: S0114000688

Bridge Inspection Field Sketch

DIAPHRAGM IN SPANS A AND B

THREE (3) BOLTS AT 3.5" CTRS.
BOLTS ARE 3/4" DIA.



ONE (1) LINE OF DIAPHRAGM IN ALL BAYS OF BOTH SPANS

VERIFIED BY: H. BONILLA 6/4/2018

Title

DIAPHRGAMS

Description

DIAPHRAGM DATA

Bridge No: 580312

Drawn By: T.J.G.

Date: 4/25/08

File Name: S0110001167