



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **CHANGE TO STRUCTURE DATA, SHORED
STRUCTURE, PRIORITY MAINTENANCE**

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: ROBESON STRUCTURE NUMBER: 770149 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1122 MILE POST: _____
LOCATION: 1.0 MI. NE. OF JCT. US501
FEATURE INTERSECTED: FIRST SWAMP
LATITUDE: 34° 36' 17.28" LONGITUDE: 79° 19' 7.54"
SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON TIMBER JOISTS
SUBSTRUCTURE: E.BTS&IBT:TIM.CAPS/TIM.PILES;E.BT1 STL CRUTCH
SPANS: 2@18'
☐ FRACTURE CRITICAL ☒ TEMPORARY SHORING ☐ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTION
PRESENT CONDITION: Fair INSPECTION DATE: 04/13/2016
POSTED SV: 17 POSTED TTST: 24
OTHER SIGNS PRESENT: (4) DELINEATORS



LOOKING NORTH

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

INSPECTED BY JASON ROLFSMEYER	SIGNATURE <i>Jason Rolfsmeier</i>	ASSISTED BY GEORGE TEAGUE
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Span Element Report

Structure Number: 770149

Inspection Date: 04/13/2016

Span Number 1

Span Length 18 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	488	479	8	1	0	9	3326
111		Timber Open Girder/Beam	342	306	36	0	0	36	3304
216		Timber Abutment	35	35	0	0	0	0	3346
225		Steel Pile	4	0	4	0	0	12	3354
515	225	Steel Protective Coating	360	288	0	64	8	72	3342
231		Steel Pier Cap	27	0	27	0	0	27	3354
515	231	Steel Protective Coating	155	0	0	128	27	155	3342
331		Reinforced Concrete Bridge Railing	36	36	0	0	0	0	3318
510		Wearing Surface	432	414	18	0	0	18	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 2

Span Length 18 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	488	474	12	2	0	14	3326
111		Timber Open Girder/Beam	342	304	36	0	2	38	3304
216		Timber Abutment	35	35	0	0	0	0	3346
228		Timber Pile	8	7	0	1	0	2	3344
235		Timber Pier Cap	53	0	53	0	0	53	3344
301		Pourable Joint Seal	26	26	0	0	0	0	3310
331		Reinforced Concrete Bridge Railing	36	34	0	2	0	2	3318
510		Wearing Surface	432	412	18	2	0	20	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 770149

Inspection Date: 04/13/2016

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	488	479	8	1	0	9	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	18	18	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	18	18	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces	0	510	Wearing Surface	432	414	18	0	0	18	2816	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested

Structure Number: 770149

Inspection Date: 04/13/2016

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	488	474	12	2	0	14	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	18	16	0	2	0	2	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	18	18	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	432	412	18	2	0	20	2816	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	18	16	0	0	2	2	3304	☒ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Expansion Joints	1	301	Pourable Joint Seal	26	26	0	0	0	0	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 770149

Inspection Date: 04/13/2016

Span Number 1

Span	1	Deck	1	Component Name:	Reinforced Concrete Deck				
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Element: 12	Name	Reinforced Concrete Deck	Qty:	488	Lvl 2:	8	Lvl 3	1	Lvl 4	0	Maint. Qty	9
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Defect Description:

RC DECK HAS PATCH TO UNDERSIDE W/ SPALL 10IN. W X 2IN. D X 8IN. LONG, SPAN 1 BAY 18 NEAR BENT 1
 1 Square Feet of Patched Areas: Patched area that is unsound or showing distress. Does not warrant structural review
 RC DECK CONCRETE PATCHES ABOVE END BENT 1 CRUTCH PILES
 8 Square Feet of Patched Areas: Patched area that is sound

Span	1	Wearing Surfaces	0	Component Name:	Asphalt Wearing Surface				
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Element: 510	Name	Wearing Surface	Qty:	432	Lvl 2:	18	Lvl 3	0	Lvl 4	0	Maint. Qty	18
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Defect Description:

AWS RAVELING ALONG C/L 1FT. W X 18FT. LONG.
 18 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.

Span	1	Beam	1	Component Name:	Timber Joist				
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Element: 111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	18	Lvl 3	0	Lvl 4	0	Maint. Qty	18
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Defect Description:

UP TO 1IN. DEEP CHECKS ALONG JOIST LENGTH
 18 Feet of Check/Shake: Penetrates 5% - 50% of the thickness of the member and not in a tension zone.

Span	1	Beam	19	Component Name:	Timber Joist				
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Element: 111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	18	Lvl 3	0	Lvl 4	0	Maint. Qty	18
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Defect Description:

UP TO 1IN. DEEP CHECKS ALONG JOIST LENGTH
 18 Feet of Check/Shake: Penetrates 5% - 50% of the thickness of the member and not in a tension zone.

Span Number 2

Span	2	Deck	1	Component Name:	Reinforced Concrete Deck				
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Element: 12	Name	Reinforced Concrete Deck	Qty:	488	Lvl 2:	12	Lvl 3	2	Lvl 4	0	Maint. Qty	14
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Defect Description:

REPAIR TO CONCRETE CURTAIN WALL AT ABUTMENT 2 RT. END W/ 1/8IN. CRACK AT COLD JOINT.
 2 Square Feet of Patched Areas: Patched area that is unsound or showing distress. Does not warrant structural review.
 RC DECK PATCH 4FT. L X 10IN. WIDE, WITH FORM IN PLACE, ON UNDERSIDE SPAN 2 BAY 16, BAYS 3 & 5 AT ABUTMENT 2 SIMILAR.
 12 Square Feet of Patched Areas: Patched area that is sound

Span	2	Bridge Rail	1	Component Name:	Concrete Railing				
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Element: 331	Name	Reinforced Concrete Bridge Ra	Qty:	18	Lvl 2:	0	Lvl 3	2	Lvl 4	0	Maint. Qty	2
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Defect Description:

LEFT CONC. RAIL END POST AT ABUTMENT 2 HAS 1/4IN. HORIZONTAL CRACK FULL CIRCUMFERENCE
 2 Feet of Cracking (RC and Other): Wide cracks or heavy pattern (map) cracking.

Span	2	Wearing Surfaces		Component Name:	Asphalt Wearing Surface				
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Element: 510	Name	Wearing Surface	Qty:	432	Lvl 2:	18	Lvl 3	2	Lvl 4	0	Maint. Qty	20
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Defect Description:

SPAN 2 AWS RAVELING ALONG C/L AND ABOVE BENT WITH MATERIAL MISSING 2IN. D X 2FT. W X 8IN. LONG.
 2 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Spall 1 in. deep or greater or 6 in. diameter or greater. Patched area that is unsound or showing distress. Full depth pothole.
 18 Square Feet of Delamination/Spall/Patched Area/Pothole (Wearing Surfaces): Delaminated. Spall less than 1 in. deep or less than 6 in. diameter. Patched area that is sound. Partial depth pothole.

Span	2	Beam	1	Component Name:	Timber Joist				
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Element: 111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	18	Lvl 3	0	Lvl 4	0	Maint. Qty	18
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Defect Description:

UP TO 1IN. DEEP CHECKS ALONG JOIST LENGTH
 18 Feet of Check/Shake: Penetrates 5% - 50% of the thickness of the member and not in a tension zone.

Structure Number: 770149

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Span	2	Beam	2	Component Name:		Timber Joist						
Element:	111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	0	Lvl 4	2 Maint. Qty	2

Defect Description:

SPAN 2 END OF JOIST 2 AT INT. BENT, VERTICAL C/L SPLIT & DECAY FULL HEIGHT X 2IN. WIDE X 19IN. LONG AT TOP, 9IN. LONG AT BOTTOM. PRIORITY MAINTENANCE

2 Feet of Decay/Section Loss: The condition warrants a structural review to determine the effect on strength or serviceability of the element or bridge; OR a structural review has been completed and the defects impact strength or serviceability of the element or bridge.

Span	2	Beam	19	Component Name: Timber Joist									
Element:	111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	18	Lvl 3	0	Lvl 4	0	Maint. Qty	18

Defect Description:

UP TO 1IN. DEEP CHECKS ALONG JOIST LENGTH

18 Feet of Check/Shake: Penetrates 5% - 50% of the thickness of the member and not in a tension zone.

Substructure Detailed Element Quantities

Structure Number: 770149

Inspection Date: 04/13/2016

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	231	Steel Pier Cap	27	0	27	0	0	27	3354	☐ Requested
☒ Piles and Columns	1	225	Steel Pile	1	0	1	0	0	3	3354	☐ Requested
☒ Piles and Columns	1	515	Steel Protective Coating	90	72	0	16	2	18	3342	☐ Requested
☒ Piles and Columns	2	225	Steel Pile	1	0	1	0	0	3	3354	☐ Requested
☒ Piles and Columns	2	515	Steel Protective Coating	90	72	0	16	2	18	3342	☐ Requested
☒ Piles and Columns	3	225	Steel Pile	1	0	1	0	0	3	3354	☐ Requested
☒ Piles and Columns	3	515	Steel Protective Coating	90	72	0	16	2	18	3342	☐ Requested
☒ Piles and Columns	4	225	Steel Pile	1	0	1	0	0	3	3354	☐ Requested
☒ Piles and Columns	4	515	Steel Protective Coating	90	72	0	16	2	18	3342	☐ Requested
☒ Caps	1	515	Steel Protective Coating	155	0	0	128	27	155	3342	☐ Requested
☒ Abutments	1	216	Timber Abutment	35	35	0	0	0	0	3346	☐ Requested

Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	235	Timber Pier Cap	27	0	27	0	0	27	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Structure Number: 770149

Inspection Date: 04/13/2016

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	235	Timber Pier Cap	26	0	26	0	0	26	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	0	1	0	2	3344	☒ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	35	35	0	0	0	0	3346	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 770149

Inspection Date: 04/13/2016

End Bent 1

End Bent 1	Row 1	Caps	1
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Element: 231 **Name** Steel Pier Cap **Qty:** 27 **Lvl 2:** 27 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 27

Defect Description:

END BENT 1 SHORED: STEEL CRUTCH BENT REPLACED TIMBER END BENT.
STEEL CRUTCH CAP MISSING WELD IN WEB SPLICE LEFT OF STEEL PILE 3
STEEL END BENT 1 CRUTCH CAP HAS SURFACE RUST WHERE PAINT MISSING ON EDGES OF WEB AND FLANGES, AT BEARING PLATES, AND SPLICE PLATES. REMAINING PAINT DULL WITH PIGMENT LOSS THROUGHOUT AND SPOTS PEELING EXPOSING PRIMER COAT.

27 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.
27 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.
10 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
118 Square Feet of Chalking (Steel Protective Coatings): Loss of pigment.

End Bent 1	Row 1	Piles and Columns	1
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Element: 225 **Name** Steel Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

PILE HAS SURFACE RUST ON EDGES AND AT BEARING PLATE WHERE PAINT MISSING. REMAINING PAINT HAS PIGMENT LOSS AND SPOT PEELING.
1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated. Section loss that has been arrested and does not warrant structural review.
16 Square Feet of Chalking (Steel Protective Coatings): Loss of pigment.
2 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

End Bent 1	Row 1	Piles and Columns	2
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Element: 225 **Name** Steel Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

PILE HAS SURFACE RUST ON EDGES AND AT BEARING PLATE WHERE PAINT MISSING. REMAINING PAINT HAS PIGMENT LOSS AND SPOT PEELING.
1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated. Section loss that has been arrested and does not warrant structural review.
16 Square Feet of Chalking (Steel Protective Coatings): Loss of pigment.
2 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

End Bent 1	Row 1	Piles and Columns	3
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Element: 225 **Name** Steel Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

PILE HAS SURFACE RUST ON EDGES AND AT BEARING PLATE WHERE PAINT MISSING. REMAINING PAINT HAS PIGMENT LOSS AND SPOT PEELING.
1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated. Section loss that has been arrested and does not warrant structural review.
16 Square Feet of Chalking (Steel Protective Coatings): Loss of pigment.
2 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

End Bent 1	Row 1	Piles and Columns	4
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Element: 225 **Name** Steel Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

PILE HAS SURFACE RUST ON EDGES AND AT BEARING PLATE WHERE PAINT MISSING. REMAINING PAINT HAS PIGMENT LOSS AND SPOT PEELING.
1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated. Section loss that has been arrested and does not warrant structural review.
16 Square Feet of Chalking (Steel Protective Coatings): Loss of pigment.
2 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

End Bent 1	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 35 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

BULKHEAD BOARDS ARE 1/8IN. SOFT.

Bent 1	Row 1	Caps	1
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Element: 235 **Name** Timber Pier Cap **Qty:** 27 **Lvl 2:** 27 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 27
Defect Description:

27 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in a tension zone.

End Bent 2	Row 1	Caps	1
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Element: 235 **Name** Timber Pier Cap **Qty:** 26 **Lvl 2:** 26 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 26
Defect Description:

ABUTMENT 2 CAP RT. END 1/4IN. DEEP CHECK FULL HEIGHT, UP TO 1/4IN. DEEP CHECKS THROUGHOUT CAP.

26 Feet of Check/Shake: Penetrates 5%-50% of the thickness of the memeber and not in a tension zone.

End Bent 2	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0
Defect Description:

PILE IS 1/8IN. SOFT.

End Bent 2	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0
Defect Description:

PILE IS 1/8IN. SOFT.

End Bent 2	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 2
Defect Description:

ABUT 2 PILE 3 RT SIDE HAS DECAY 2-1/2IN. DEEP X 5IN. WIDE X 17IN. HIGH. PRIORITY MAINTENANCE
 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review.

End Bent 2	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0
Defect Description:

PILE IS 1/8IN. SOFT.

End Bent 2	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 35 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0
Defect Description:

SEVERAL BULKHEAD BOARDS REPLACED AT BOTH ENDS OF ABUTMENT 2. REMAINING BULKHEAD BOARDS ARE 1/8IN. SOFT.

National Bridge and NC Inspection Items

Structure Number: 770149

Inspection Date: 04/13/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	6
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	600	3376
Drainage System	G, F, P, or C	F	20	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	G	0	3350
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	10		

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

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	12
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 770149

Inspection Date: 04/13/2016

Item	Channel and Channel Protection - Item 61	Grade	6	Maint Code		Qty.	0
Details	BEAVERDAM OBSTRUCTING STREAM FLOW APPROX 30FT. DOWNSTREAM OF STRUCTURE AND APPROX. 250FT. WIDE.						
Item	Priority Maintenance Issued	Grade	Y	Maint Code		Qty.	0
Details	PM ISSUED FOR DECAY IN TIMBER JOIST AND ABUTMENT PILE						
Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
Details	SV 17 TTST 24						
Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	600
Details	DECK DEBRIS ALONG RT. GUTTERLINE BLOCKING DRAIN HOLES 8IN. W X2IN. H XBRIDGE LENGTH. LT. SIDE SIMILAR.						
Item	Drainage System	Grade	F	Maint Code	3332	Qty.	20
Details	ALL STEEL DECK DRAIN PIPE EXTENSIONS UNDER DECK HAVE COMPLETE SECTION LOSS OR ARE BROKEN.						
Item	Field Scour Evaluation	Grade	O	Maint Code		Qty.	0
Details	SEE BRIDGE SCOUR ASSESSMENT 6/24/10 POA: Monitor bridge foundation during biennial inspection cycle for case 1 or 2. 1) If mud line at any end bent or interior bent scours more than 4 feet from the established baseline contact the Hydraulics Unit. Establish a baseline using the 2008-2009 inspection soundings. 2) If footings have greater than 10% of the bearing undermined, contact the Hydraulics Unit.						



ABUT 2 PILE 3 RT SIDE HAS DECAY 2-1/2IN. DEEP X 5IN. WIDE X 17IN. HIGH. PRIORITY MAINTENANCE



SPAN 2 END OF JOIST 2 AT INT. BENT, VERTICAL C/L SPLIT & DECAY FULL HEIGHT X 2IN. WIDE X 19IN. LONG AT TOP, 9IN. LONG AT BOTTOM. PRIORITY MAINTENANCE



NORTHEAST CORNER WINGWALL BULKHEAD BOARDS REPLACED AND NEW SOLDIER PILE, REPAIR TO BULKHEAD BOARDS TO RT. END OF ABUTMENT 2.



ABUTMENT 2 CAP RT. END 1/4IN. DEEP CHECK FULL HEIGHT



REPAIR TO CONCRETE CURTAIN WALL AT ABUTMENT 2 RT. END W/ 1/8IN. CRACK AT COLD JOINT.



RC DECK PATCH 4FT. L X 10IN. WIDE, WITH FORM IN PLACE, ON UNDERSIDE SPAN 2 BAY 16, BAYS 3 & 5 AT ABUTMENT 2 SIMILAR.



STEEL DECK DRAIN PIPE EXTENSION UNDER DECK IN SPAN 1 COMPLETE SECTION LOSS, ALL SIMILAR OR BROKEN



RC DECK HAS PATCH TO UNDERSIDE W/ SPALL 10IN. W X 2IN. D X 8IN. LONG, SPAN 1 BAY 18 NEAR BENT 1



STEEL END BENT 1 CRUTCH CAP AND PILES HAVE SURFACE RUST WHERE PAINT MISSING ON EDGES OF WEB AND FLANGES, AT BEARING PLATES, AND SPLICE PLATES. REMAINING PAINT DULL WITH PIGMENT LOSS THROUGHOUT.



SPAN 1 RC DECK CONCRETE PATCHES ABOVE END BENT 1 CRUTCH PILES



END BENT 1 STEEL CRUTCH CAP SPLICE LEFT OF STEEL PILE 3 MISSING WELD IN WEB



LEFT CONC. RAIL END POST AT ABUTMENT 2 HAS 1/4IN. HORIZONTAL CRACK FULL CIRCUMFERENCE



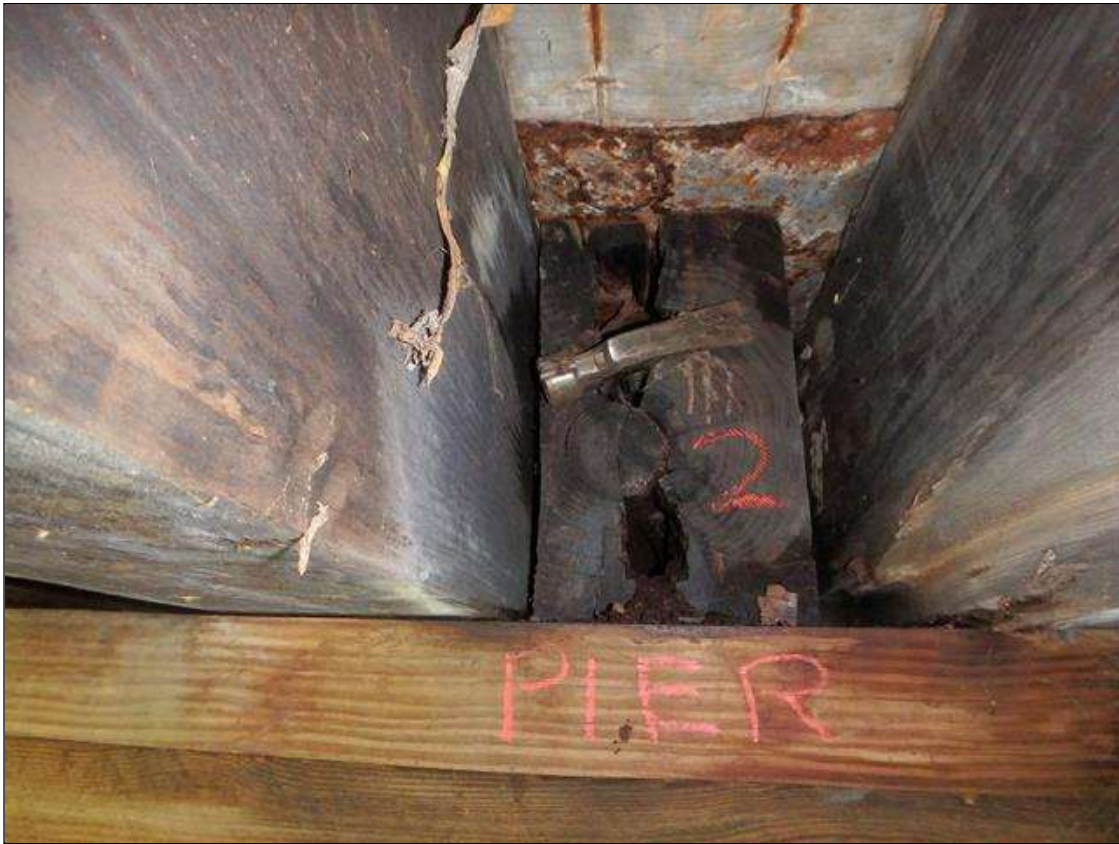
NORTH APPROACH ROADWAY AT BRIDGE REPAVED



SPAN 2 AWS RAVELING ALONG C/L AND ABOVE BENT WITH MATERIAL MISSING 2IN. D X 2FT. W X 8IN. LONG.



DECK DEBRIS ALONG RT. GUTTERLINE BLOCKING DRAIN HOLES 8IN. W X 2IN. H X BRIDGE LENGTH. LT. SIDE SIMILAR.



SPAN 2 END OF JOIST 2 AT INT. BENT, VERTICAL C/L SPLIT & DECAY FULL HEIGHT X 2IN. WIDE X 19IN. LONG AT TOP, 9IN. LONG AT BOTTOM. PRIORITY MAINTENANCE



LOOKING UPSTREAM



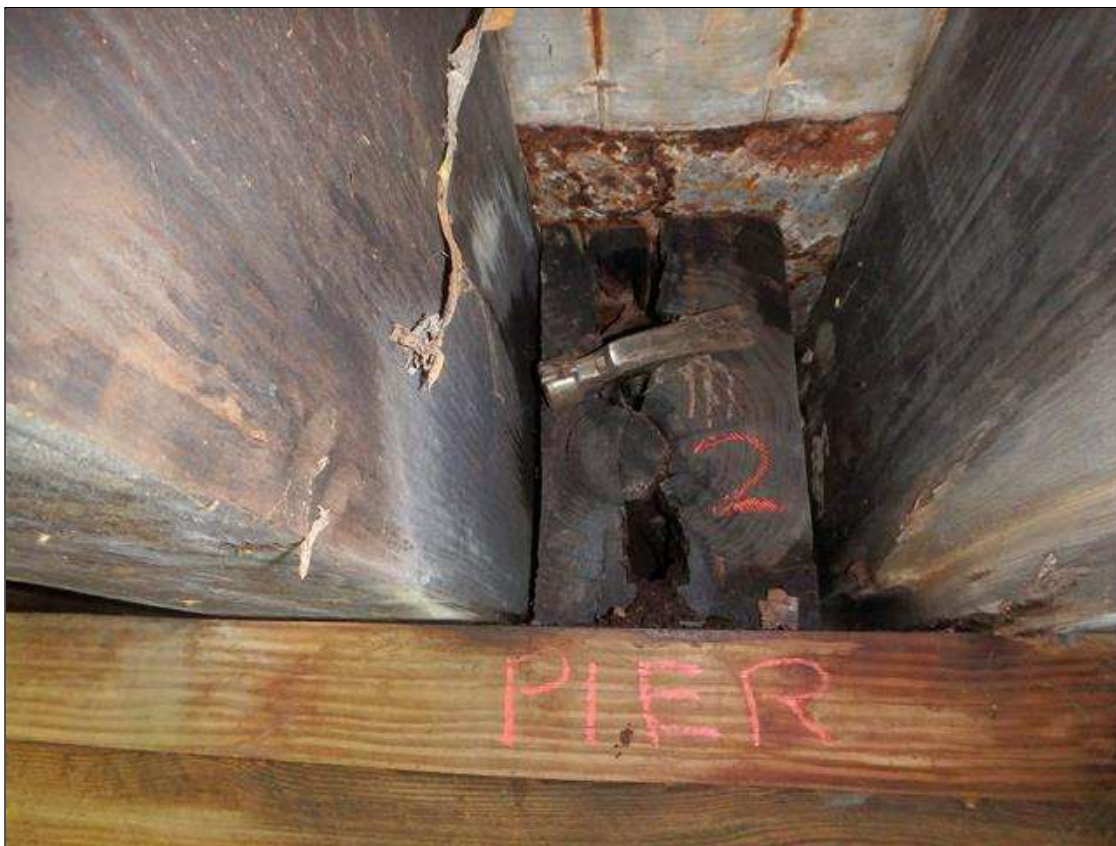
BENT 1



ABUTMENT 2



END BENT 1 SHORED: STEEL CRUTCH BENT REPLACED TIMBER END BENT.



LOOKING EAST



SUPERSTRUCTURE SPAN 1



LOOKING DOWNSTREAM



LOOKING SOUTH



NORTH POSTING



LOOKING UPSTREAM



LOOKING DOWNSTREAM



LOOKING NORTH



SOUTH POSTING



LOOKING WEST



LOOKING EAST

Run Date: 09/14/2016

IDENTIFICATION				
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770149	SUFFICIENCY RATING =	34.92
(8) STRUCTURE NUMBER(FEDERAL)		000000001550149	STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31011220		
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		
(3) COUNTY CODE	155	(4) PLACE CODE	0	
(6) FEATURE INTERSECTED - FIRST SWAMP				
(7) FACILITY CARRIED SR1122				
(9) LOCATION 1.0 MI. NE. JCT. US501				
(11)MILEPOINT		0		
(16)LAT 34° 36' 17.28"	(17)LONG	79° 19' 7.54"		
(98)BORDER BRIDGE STATE CODE	PCT SHARE			
(99)BORDER BRIDGE STRUCTURE NO				
STRUCTURE TYPE AND MATERIAL				
(43) STRUCTURE TYPE MAIN: Wood or Timber				
TYPE - Stringer Multibeam or Girder		CODE	702	
(44) STRUCTURE TYPE APPR :				
TYPE -		CODE	000	
(45) NUMBER OF SPANS IN MAIN UNIT			2	
(46) NUMBER OF APPROACH SPANS				
(107)DECK STRUCTURE TYPE - 1		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			1954	
(106)YEAR RECONSTRUCTED				
(42) TYPE OF SERVICE : ON - Highway				
UNDER - Waterway		CODE	15	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE			0	
(29) AVERAGE DAILY TRAFFIC			130	
(30) YEAR OF ADT 2011	(109) TRUCK ADT PCT		6%	
(19) BYPASS OR DETOUR LENGTH			2 MI	
GEOMETRIC DATA				
(48) LENGTH OF MAXIMUM SPAN			17 FT	
(49) STRUCTURE LENGTH			36 FT	
(50)CURB OR SIDEWALK: LEFT .7915 FT RIGHT .7915 FT				
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			24 FT	
(52) DECK WIDTH OUT TO OUT			27.1 FT	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			18 FT	
(33) BRIDGE MEDIAN - No Median		CODE	0	
(34) SKEW 0°	(35) STRUCTURE FLARED		0	
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			24 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 - Local				09
(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				6
(60) SUBSTRUCTURE				4
(61) CHANNEL & CHANNEL PROTECTION				6
(62) CULVERTS				N
LOAD RATING AND POSTING				
(31) DESIGN LOAD Unknown				0
(63) OPERATING RATING METHOD - Allowable Stress				2
(64) OPERATING RATING - HS-1				1
(65) INVENTORY RATING METHOD - Allowable Stress				2
(66) INVENTORY RATING - HS-1				1
(70) BRIDGE POSTING - Posting Required				0
(41) STRUCTURE OPEN, POSTED ,OR CLOSED DESCRIPTION - Posted for Load				P
APPRAISAL				
(67) STRUCTURAL EVALUATION				3
(68) DECK GEOMETRY				5
(69) UNDERCLEARANCES,VERTI & HORIZ				N
(71) WATERWAY ADEQUACY				7
(72) APPROACH ROADWAY ALIGNMENT				8
(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 260	(115) YEAR FUTURE ADT			2025
INSPECTIONS				
(90) INSPECTION DATE				04/13/2016
(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE	
A) FRACTURE CRIT DETAIL - NO			A)	
B) UNDERWATER INSP - YES 48Mo			B)	06/25/2014
C) OTHER SPECIAL INSP NO			C)	
SCOUR				

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 09/14/2016

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770149	36	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1122	FIRST SWAMP

LOCATED :	BRIDGE NAME :	CITY :
1.0 MI. NE. JCT. US501		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	130 2011	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1954	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
			TAN	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		11 FT		6		FT

SUPERSTRUCTURE :	REINFORCED CONCRETE FLOOR ON TIMBER JOISTS
------------------	--

SUBSTRUCTURE :	E.BTS&IBT:TIM.CAPS/TIM.PILES;E.BT1 STL CRUTCH
----------------	---

SPANS :	2@18'
---------	-------

BEAMS OR GIRDERS :	19 LINES 6X12 TIMBER JOISTS@1'4.25 CENTERS
--------------------	--

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5" RC/2" AWS		27.1 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.583 FT	LT .7915 FT RT .7915 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Int. Jst.	SV 17	TTST 24	DATE	09/11/2008	

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770149

County ROBESON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3304	Maintain/Replace Timber Superstructure Components	LF	2	SPAN 2 END OF JOIST 2 AT INT. BENT, VERTICAL C/L SPLIT & DECAY FULL HEIGHT X 2IN. WIDE X 19IN. LONG AT TOP, 9IN. LONG AT BOTTOM.	
 3344	Repair / Replace Timber Substructure Components	LF	2	BRIDGE POSTED SV 17T TTST 24T ABUT 2 PILE 3 RT SIDE HAS DECAY 2-1/2IN. DEEP X 5IN. WIDE X 17IN. HIGH. BRIDGE IS POSTED SV 17T TTST 24T	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770149 County ROBESON

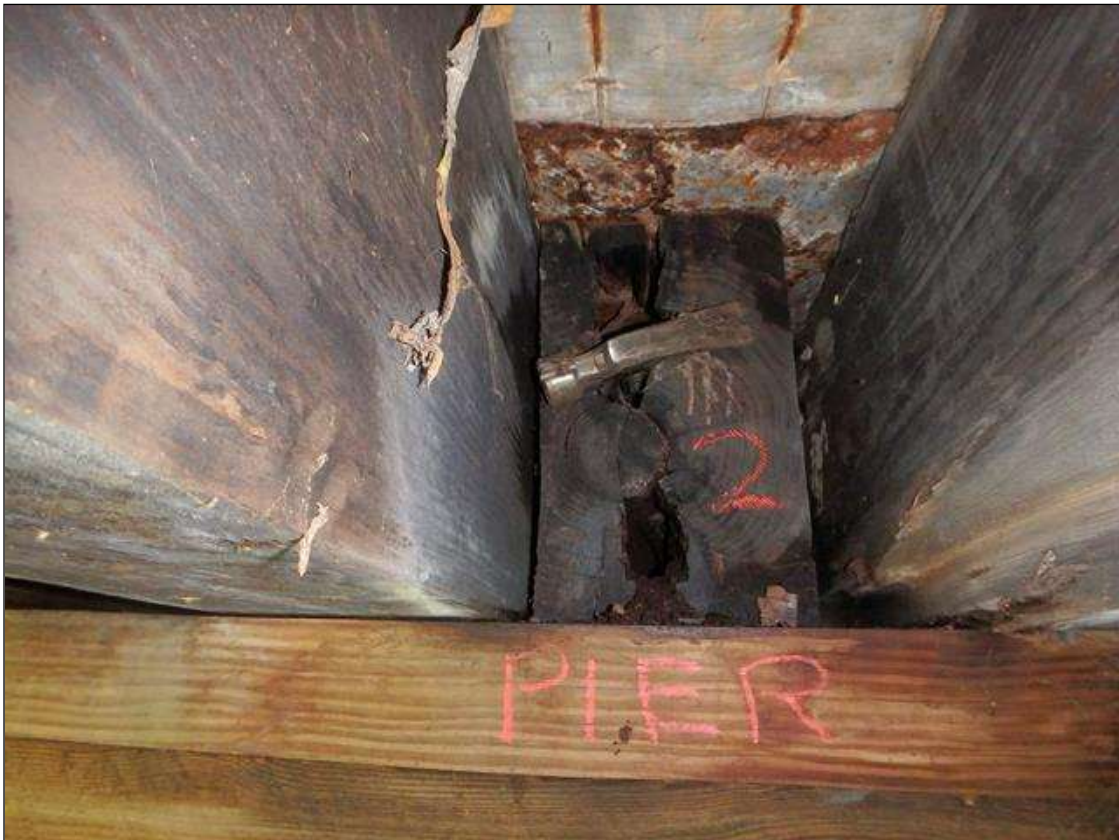
THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	2 LF
Location:		
Beams and Girders	Bent/Span No. 2	JOIST
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
04/22/2016	JASON ROLFSMEYER	GEORGE TEAGUE
Details		
SPAN 2 END OF JOIST 2 AT INT. BENT, VERTICAL C/L SPLIT & DECAY FULL HEIGHT X 2IN. WIDE X 19IN. LONG AT TOP, 9IN. LONG AT BOTTOM. BRIDGE POSTED SV 17T TTST 24T		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	2 LF
Location:		
Abutment Substructure	Bent/Span No. 2	PILE
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
04/22/2016	JASON ROLFSMEYER	GEORGE TEAGUE
Details		
ABUT 2 PILE 3 RT SIDE HAS DECAY 2-1/2IN. DEEP X 5IN. WIDE X 17IN. HIGH. BRIDGE IS POSTED SV 17T TTST 24T		



ABUT 2 PILE 3 RT SIDE HAS DECAY 2-1/2IN. DEEP X 5IN. WIDE X 17IN. HIGH. PRIORITY MAINTENANCE



SPAN 2 END OF JOIST 2 AT INT. BENT, VERTICAL C/L SPLIT & DECAY FULL HEIGHT X 2IN. WIDE X 19IN. LONG AT TOP, 9IN. LONG AT BOTTOM. PRIORITY MAINTENANCE

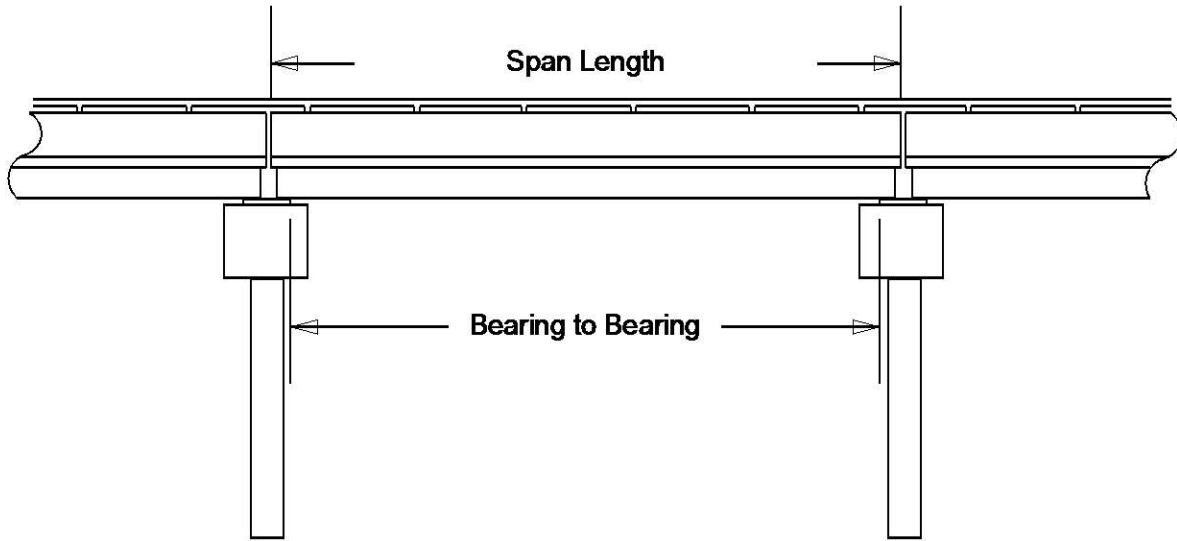


PRESENT POSTING SV 17T TTST 24T

Structure Data Worksheet

Spans

County: **ROBESON** Structure No: **770149** Date: Inspected By: **JER**



Span No	Span Length	Bearing to Bearing	Comments
1	18.0 FT	16.083 FT	END BENT 1 CRUTCH BENT TO BENT 1
2	18.0 FT	17.25 FT	NBIS 32.667FT REVISED 4/13/16 GLT

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770149 County: ROBESON Date: _____ By: JER

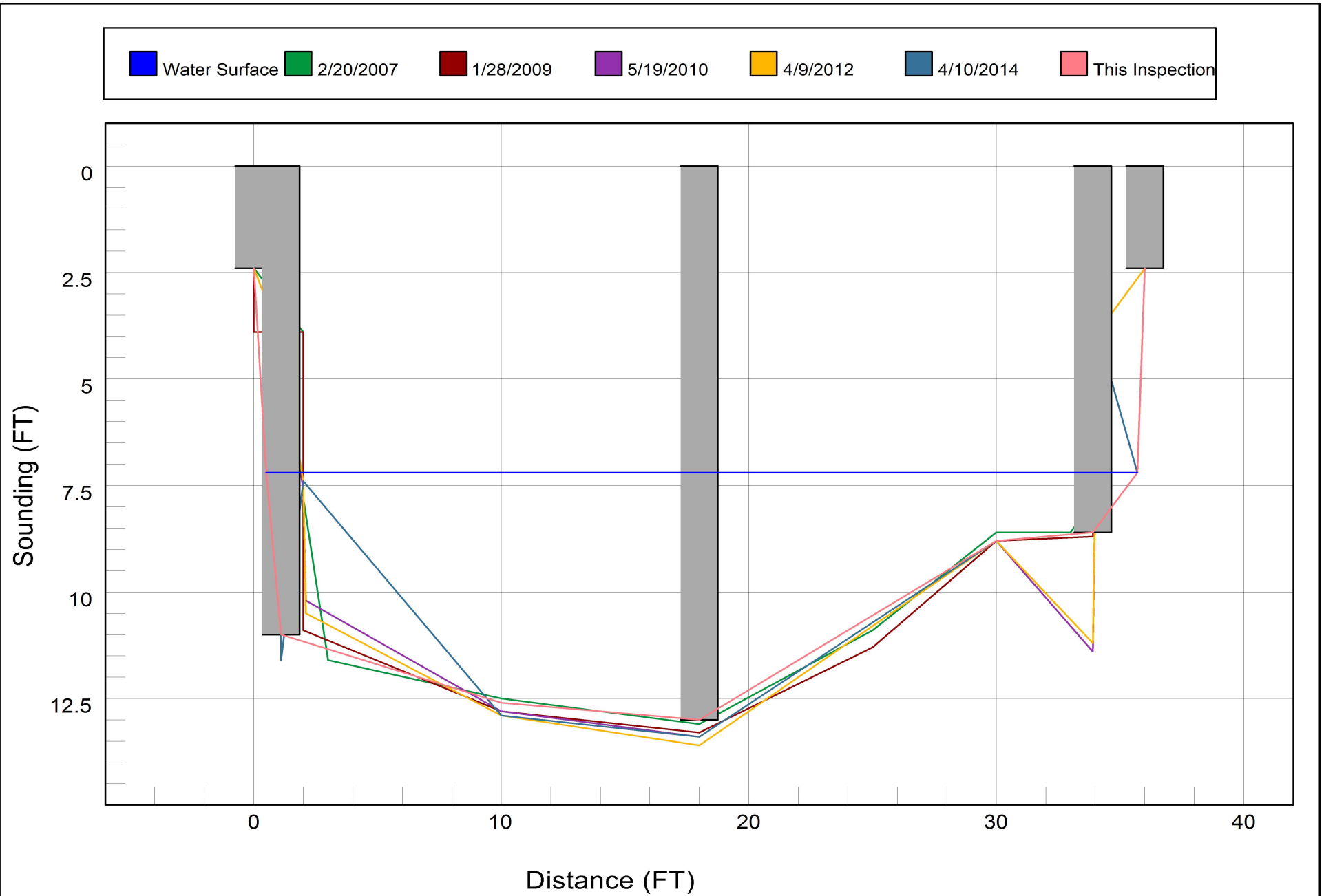
Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.4	ABUTMENT 1 TOP OF BULKHEAD			
0.5	7.2	WS WE			
1.1	11	BED AT ABUTMENT 1 CAP	1.1	10.4	BED AT ABUTMENT 1 CAP
10	12.6				
18	13	BENT 1	18	16.1	BENT 1
30	8.8				
33.9	8.6	BED AT ABUTMENT 2 CAP	33.9	10.7	BED AT ABUTMENT 2 CAP
35.7	7.2	WS WE			
36	2.4	ABUTMENT 2 TOP OF BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1122 (McLEOD ROAD)

Roadway	16ft Wide	2 Paved Lanes	Looking North
Left Shoulder	10ft Wide	1ft Paved	9ft Unpaved
Right Shoulder	9ft Wide	1ft Paved	8ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS REVISED 4/13/16 GLT

Title

APPROACH ROADWAY

Description

LOOKING NORTH

Bridge No: 770149

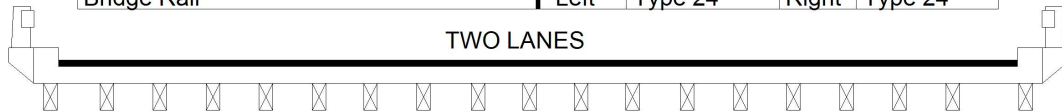
Drawn By: MSW

Date: 1/28/2009

File Name: S0214000642

Bridge Inspection Field Sketch

Deck Width/Out to Out	27.1ft	Between Rails			25.583ft
Clear Roadway	24.0ft	Wearing Surface			0.167ft
Median Width		Median Height			
Curb Height		Left	0.6667ft	Right	0.667ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	1.167ft	Right	1.167ft
Top of Rail to Deck/Wearing Surface		Left	2.4167ft	Right	2.417ft
Bridge Rail		Left	Type 24	Right	Type 24



Measurements for Span #	1		
Deck Thickness	0.417	Left Overhang	1.25
Top of Rail to Bottom of Beam	3.959	Right Overhang	1.25

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.417ft	JOIST SIZE = 0.49 FT WIDE x 0.95 FT HIGH
2	Timber (Rectangular)	1.333ft	
3	Timber (Rectangular)	1.333ft	
4	Timber (Rectangular)	1.333ft	
5	Timber (Rectangular)	1.333ft	
6	Timber (Rectangular)	1.2917ft	
7	Timber (Rectangular)	1.333ft	
8	Timber (Rectangular)	1.375ft	
9	Timber (Rectangular)	1.2917ft	
10	Timber (Rectangular)	1.2917ft	
11	Timber (Rectangular)	1.2917ft	
12	Timber (Rectangular)	1.375ft	
13	Timber (Rectangular)	1.333ft	
14	Timber (Rectangular)	1.333ft	
15	Timber (Rectangular)	1.333ft	
16	Timber (Rectangular)	1.333ft	
17	Timber (Rectangular)	1.333ft	
18	Timber (Rectangular)	1.833ft	
19	Timber (Rectangular)	ft	

OUT TO OUT MEASURED BETWEEN EXTERIOR FACES OF RAIL POST BLOCKS.

MEASUREMENTS REVISED 4/13/16 GLT

REVISED OUT TO OUT & OVERHANG DIMENSIONS.

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION SPAN 1

Bridge No: 770149

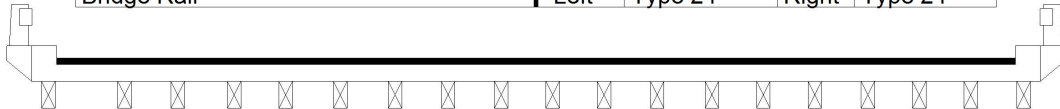
Drawn By: RLK

Date: 4/10/2014

File Name: S0214000643

Bridge Inspection Field Sketch

Deck Width/Out to Out	27.1ft	Between Rails			25.583ft
Clear Roadway	24.0ft	Wearing Surface			0.167ft
Median Width		Median Height			
Curb Height		Left	0.667ft	Right	0.667ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	1.167ft	Right	1.167ft
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right	2.417ft
Bridge Rail		Left	Type 24	Right	Type 24



Measurements for Span #	2		
Deck Thickness	0.417	Left Overhang	1.25
Top of Rail to Bottom of Beam	3.959	Right Overhang	1.25

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.917ft	JOIST SIZE = 0.49 FT WIDE x 0.95 FT HIGH
2	Timber (Rectangular)	1.333ft	
3	Timber (Rectangular)	1.417ft	
4	Timber (Rectangular)	1.2917ft	
5	Timber (Rectangular)	1.375ft	
6	Timber (Rectangular)	1.375ft	
7	Timber (Rectangular)	1.333ft	
8	Timber (Rectangular)	1.333ft	
9	Timber (Rectangular)	1.2917ft	
10	Timber (Rectangular)	1.2917ft	
11	Timber (Rectangular)	1.333ft	
12	Timber (Rectangular)	1.375ft	
13	Timber (Rectangular)	1.2917ft	
14	Timber (Rectangular)	1.2917ft	
15	Timber (Rectangular)	1.333ft	
16	Timber (Rectangular)	1.2917ft	
17	Timber (Rectangular)	1.2917ft	
18	Timber (Rectangular)	1.333ft	
19	Timber (Rectangular)	ft	

OUT TO OUT MEASURED BETWEEN EXTERIOR FACES OF RAIL POST BLOCKS.

MEASUREMENTS REVISED 4/13/16 GLT

REVISED OUT TO OUT & OVERHANG DIMENSIONS.

Title

SUPERSTRUCTURE 2

Description

SIMILAR SECTION SPAN 2

Bridge No: 770149

Drawn By: RLK

Date: 4/10/2014

File Name: S0214000645

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.				
26.083 ft.	1.0 ft.	1.0 ft.	1.417 ft.	1.583 ft.	.833 ft.	.709 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	Steel	8.0 ft.	.833 ft.			Vertical	Yes	No	No	No
2	Steel	7.917 ft.	.833 ft.			Vertical	Yes	No	No	No
3	Steel	7.167 ft.	.833 ft.			Vertical	Yes	No	No	No
4	Steel		0.833 ft.			Vertical	Yes	No	No	No
NOTES:										
1) C/L OF STEEL CRUTCH BENT LOCATED 1.33 FT FROM C/L OF ORIGINAL END BENT 1 CAP.										
2) TIMBER CROWN STRIP MEASURES 0.3125 FT AT C/L AND 0.1875 FT AT ENDS.										
3) 0.0625 FT THICK STEEL BEARING PLATE RESTS ON TOP OF EACH PILE.										
4) STEEL CAP SPLICED END TO END AT THESE LOCATIONS (WELDED) :										
-- 0.0833 FT RIGHT OF C/L PILE 1										
-- 3.5833 FT LEFT OF C/L PILE 2										
-- 1.4167 FT LEFT OF C/L PILE 3										
5) 0.0365 FT THICK STEEL WEB STIFFENER FOR CAP LOCATED ABOVE EACH PILE AND AT MID POINT BETWEEN EACH PILE										
5) ORIGINAL TIMBER END BENT CAP AND PILES NOT BEARING ANY LOAD, CRUTCH REPLACES ORIGINAL.										
MEASUREMENTS VERIFIED 4/13/16 JER										
Bent/Abutment #: 1			Similar Bents:							

Title

SUBSTRUCTURE (CRUTCH BENT)

Description

END BENT 1, CRUTCH BENT

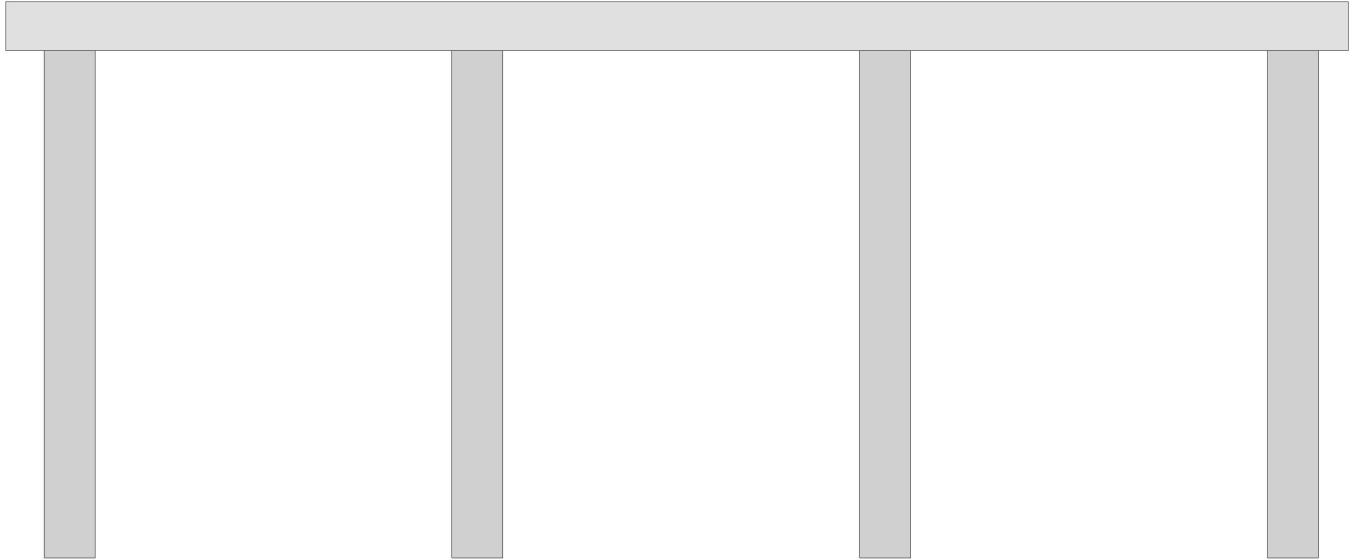
Bridge No: 770149

Drawn By: RLK

Date: 4/10/2014

File Name: S0214000646

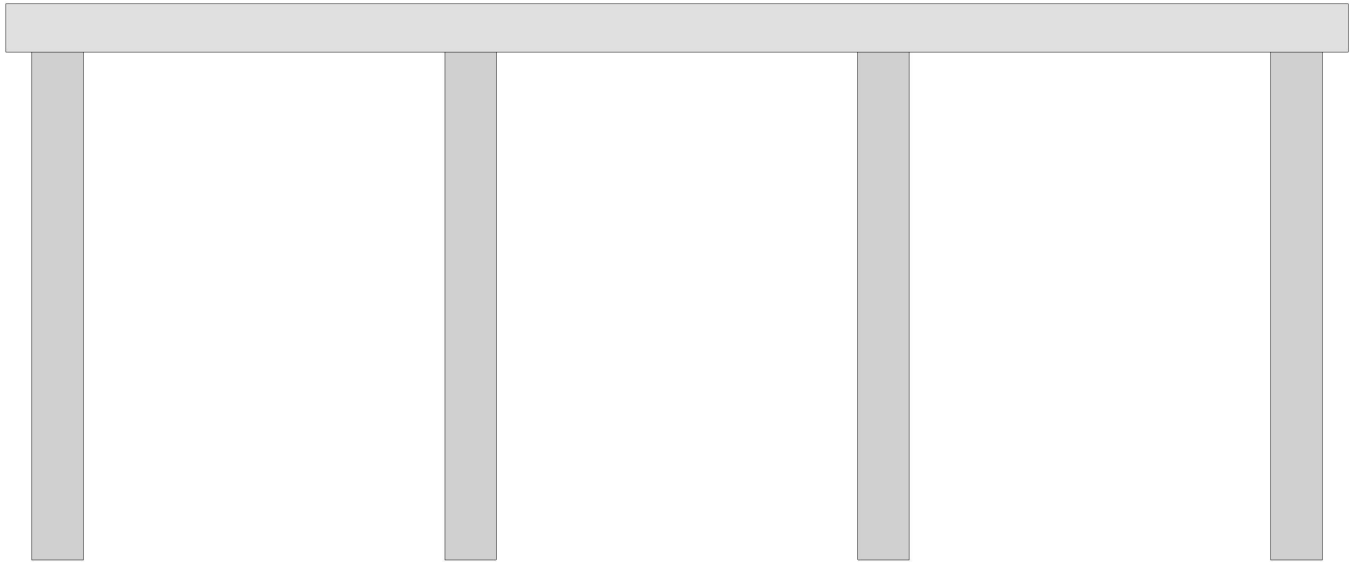
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.333 ft.	.959 ft.	.959 ft.	1.25 ft.	1.083 ft.	0.75 ft.	.833 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	8.0 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.0 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8.0 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No
NOTES: 1) TIMBER CROWN STRIP MEASURES 0.3125 FT THICK AT C/L AND 0.1875 FT THICK AT ENDS. 2) BENT 1 HAS TIMBER CROSS BRACING. MEASUREMENTS VERIFIED 4/13/16 JER										
Bent/Abutment #: 1			Similar Bents: NONE							

Title		Description	
SUBSTRUCTURE 1		BENT 1	
Bridge No: 770149	Drawn By: RLK	Date: 4/10/2014	File Name: S0214000647

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.				
26.0 ft.	1.0 ft.	.937 ft.	1.0 ft.	1.0 ft.	0.75 ft.	0.75 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	8.0 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.0 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8.0 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No
NOTES: 1) TIMBER CROWN STRIP MEASURES 0.3125 FT THICK AT C/L AND 0.1875 FT THICK AT ENDS. 2) MEASUREMENTS OF ORIGINAL END BENT 1 IS SIMILAR TO END BENT 2.										
MEASUREMENTS VERIFIED 4/13/16 JER										
Bent/Abutment #: 2			Similar Bents: 1							

Title		Description	
SUBSTRUCTURE 2		END BENT 2	
Bridge No: 770149	Drawn By: RLK	Date: 4/10/2014	File Name: S0214000648