



NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

ATTENTION: RESURFACED

Structure Safety Report

2 Year Complete Topside and Underwater Element Inspection

COUNTY: ROBESON STRUCTURE NUMBER: 770422 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR2105 MILE POST: _____

LOCATION: 0.5 MI. E. OF JCT. SR1002

FEATURE INTERSECTED: JACKSON SWAMP

LATITUDE: 34° 38' 2.25" LONGITUDE: 78° 54' 51.78"

SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOISTS

EBTS&IBT:TIMBER CAPS/TIMBER PILES @ 6' CENTERS

SUBSTRUCTURE: EBT&IBT:TIMBER CAPS/TIMBER PILES @ 6"CENTERS

2@18'

SPANS: 2@18"

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

PRESENT CONDITION: Poor

INSPECTION DATE: 11/05/2015

POSTED SV: 16

POSTED TTST: 24

OTHER SIGNS PRESENT: _____



LOOKING EAST

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

INSPECTED BY
WILLIAM MUELLER

SIGNATURE

ASSISTED BY PATRICK RUTHERFORD,
JAMES TALACEK

Span Element Report

Structure Number: 770422

Inspection Date: 11/05/2015

Span Number 1

Span Length 18 Feet

Number of Beams/Girders: 12

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	360	340	20	0	0	20	3324
111		Timber Open Girder/Beam	216	0	214	2	0	216	3304
216		Timber Abutment	27	0	27	0	0	27	3346
228		Timber Pile	4	0	4	0	0	24	3344
235		Timber Pier Cap	20	0	19	1	0	20	3344
332		Timber Bridge Railing	36	0	0	36	0	36	3316
510		Wearing Surface	344	0	344	0	0	344	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: 12

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	360	340	20	0	0	20	3324
111		Timber Open Girder/Beam	216	0	215	1	0	216	3304
216		Timber Abutment	27	0	27	0	0	27	3346
228		Timber Pile	8	0	8	0	0	60	3344
235		Timber Pier Cap	40	0	20	20	0	40	3344
332		Timber Bridge Railing	36	0	0	36	0	36	3316
510		Wearing Surface	342	0	342	0	0	342	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: 770422

Inspection Date: 11/05/2015

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	31	Timber Deck	360	340	20	0	0	20	3324	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	18	0	0	18	0	18	3316	☐ Requested
☒ Bridge Rail	2	332	Timber Bridge Railing	18	0	0	18	0	18	3316	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	344	0	344	0	0	344	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	0	18	0	0	18	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	0	17	1	0	18	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	0	17	1	0	18	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested

Structure Number: 770422

Inspection Date: 11/05/2015

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	31	Timber Deck	360	340	20	0	0	20	3324	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	18	0	0	18	0	18	3316	☐ Requested
☒ Bridge Rail	2	332	Timber Bridge Railing	18	0	0	18	0	18	3316	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	342	0	342	0	0	342	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	0	18	0	0	18	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	0	17	1	0	18	3304	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 770422

Inspection Date: 11/05/2015

Span Number 1

Span	1	Deck	1	Component Name:	Timber Deck					
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Element: 31 Name Timber Deck Qty: 360 Lvl 2: 20 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 20

Defect Description:

AWS COVERED
RANDOM AREAS DECAY ON TOP OF ENDS - 1/2" VERTICAL
BOTTOM OF DECK STAINED

Span	1	Bridge Rail	1	Component Name:	Timber Rail					
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Element: 332 Name Timber Bridge Railing Qty: 18 Lvl 2: 0 Lvl 3: 18 Lvl 4: 0 Maint. Qty: 18

Defect Description:

CHECKS TO 1/2"/SURFACE SOFT TO 1/4"

Span	1	Bridge Rail	2	Component Name:	Timber Rail					
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Element: 332 Name Timber Bridge Railing Qty: 18 Lvl 2: 0 Lvl 3: 18 Lvl 4: 0 Maint. Qty: 18

Defect Description:

POST 3 - BROKEN
CHECKS TO 1/2"/ SURFACE SOFT TO 1/4"

Span	1	Wearing Surfaces		Component Name:	Asphalt Wearing Surface					
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Element: 510 Name Wearing Surface Qty: 344 Lvl 2: 344 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 344

Defect Description:

TRANSVERSE CRACKS BETWEEN MOST DECK BOARDS

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

Defect Description:

CHECKS TO 1/16"

Span	1	Beam	2	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

Defect Description:

CHECKS TO 1/16"

Span	1	Beam	3	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

Defect Description:

CHECKS TO 1/16"

Span	1	Beam	4	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

Defect Description:

CHECKS TO 1/16"

Span	1	Beam	5	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

Defect Description:

CHECKS TO 1/16"

Span	1	Beam	6	Component Name:	Timber Joist					
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Element: 111 Name Timber Open Girder/Beam Qty: 18 Lvl 2: 17 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 18

Defect Description:

CHECKS TO 1/16"
AT BENT SPLINTERED AREA AT BOTTOM OF JOIST - 3" VERTICAL X 2" WIDE X 1' LONG

Span	1	Beam	7	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

Defect Description:

CHECKS TO 1/16"

Inspection Date: 11/05/2015

Span 1	Beam	10	Component Name:		Timber Joist							
Element: 111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	17	Lvl 3	1	Lvl 4	0	Maint. Qty	18
Defect Description:												
CHECKS TO 1/16"												
AT BENT 1 -SPLINTERED AREAS ON BOTH SIDES AT BOTTOM OF JOIST - 1" VERTICAL X 2" WIDE X 6" LONG												

Span	1	Beam	12	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:													
CHECKS TO 1/16"													

Span	2	Deck	1	Component Name:		Timber Deck							
Element:	31	Name	Timber Deck	Qty:	360	Lvl 2:	20	Lvl 3	0	Lvl 4	0	Maint. Qty	20
Defect Description:													
AWS COVERED													
RANDOM AREAS DECAY ON TOP OF ENDS - 1/2" VERTICAL													
BOTTOM OF DECK STAINED													

Span	2	Bridge Rail	2	Component Name:			Timber Rail						
Element:	332	Name	Timber Bridge Railing	Qty:	18	Lvl 2:	0	Lvl 3	18	Lvl 4	0	Maint. Qty	18
Defect Description:													
CHECKS TO 1/2" SURFACE SOFT TO 1/4"													

Span	2	Beam	1	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:													
CHECKS TO 1/16"													
AT BENT 1, TOP OF JOIST - DECAY 8" VERTICAL X 1/2" DEEP X 2' LONG													

Span	2	Beam	2	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:													
CHECKS TO 1/16"													
AT BENT 1. SPLINTERED AREA 6" VERTICAL X 1" WIDE X 14" LONG													

Inspection Date: 11/05/2015

Span	2	Beam	3	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:													
CHECKS TO 1/16"													
Span	2	Beam	4	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:													
CHECKS TO 1/16"													
Span	2	Beam	5	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:													
CHECKS TO 1/16"													
Span	2	Beam	6	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:													
CHECKS TO 1/16"													
Span	2	Beam	7	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:													
CHECKS TO 1/16"													
Span	2	Beam	8	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:													
CHECKS TO 1/16"													
Span	2	Beam	9	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:													
CHECKS TO 1/16"													
Span	2	Beam	10	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:													
CHECKS TO 1/16"													
Span	2	Beam	11	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:													
CHECKS TO 1/16"													
Span	2	Beam	12	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	17	Lvl 3	1	Lvl 4	0	Maint. Qty	18
Defect Description:													
CHECKS TO 1/16"													
AT END BENT 2 - DECAY AGAINST BULKHEAD - 4" VERTICAL X FULL WIDTH X 2" LONG													

Substructure Detailed Element Quantities

Structure Number: 770422

Inspection Date: 11/05/2015

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	235	Timber Pier Cap	20	0	19	1	0	20	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	5	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	4	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	7	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	8	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	27	0	27	0	0	27	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	20	0	20	0	0	20	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	10	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	10	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	10	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	10	3344	☐ Requested

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
☒ Abutments	1	216	Timber Abutment	27	0	27	0	0	27	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	20	0	0	20	0	20	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	5	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	5	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	5	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	5	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 770422

Inspection Date: 11/05/2015

End Bent 1

End Bent 1	Row 1	Caps	1									
Element: 235	Name	Timber Pier Cap	Qty:	20	Lvl 2:	19	Lvl 3	1	Lvl 4	0	Maint. Qty	20
Defect Description:												
ROLLED BACK +/-3/4"												
NORTH END, TOP OF CAP - DECAY 1' LONG X 2" VERTICAL X 3" WIDE												
CHECKS TO 1/16"												
End Bent 1	Row 1	Piles and Columns	2									
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	5
Defect Description:												
CHECKS 1/8"/ SURFACE SOFT TO 1/8"												
End Bent 1	Row 1	Piles and Columns	1									
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	4
Defect Description:												
CHECKS 1/16"/ SURFACE SOFT TO 1/8"												
End Bent 1	Row 1	Piles and Columns	3									
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	7
Defect Description:												
CHECKS 1/8"/ SURFACE SOFT TO 1/8"												
End Bent 1	Row 1	Piles and Columns	4									
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	8
Defect Description:												
CHECKS 1/16"/ SURFACE SOFT TO 1/8"												
End Bent 1	Row 1	Abutments	1									
Element: 216	Name	Timber Abutment	Qty:	27	Lvl 2:	27	Lvl 3	0	Lvl 4	0	Maint. Qty	27
Defect Description:												
DECAY ON HORIZONTAL BOARDS , VERTICAL SHEETING IN PLACE BEHIND, RANDOM SCAB BOARDS												
Bent 1	Row 1	Caps	1									
Element: 235	Name	Timber Pier Cap	Qty:	20	Lvl 2:	20	Lvl 3	0	Lvl 4	0	Maint. Qty	20
Defect Description:												
CHECKS TO 1/16"												
Bent 1	Row 1	Piles and Columns	1									
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	10
Defect Description:												
CHECKS 1/8"/ SURFACE SOFT TO 1/8"												
Bent 1	Row 1	Piles and Columns	2									
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	10
Defect Description:												
CHECKS 1/16"/ SURFACE SOFT TO 1/8"												
Bent 1	Row 1	Piles and Columns	3									
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	10
Defect Description:												
CHECKS 1/8"/ SURFACE SOFT TO 1/8"												
Bent 1	Row 1	Piles and Columns	4									

Structure Number: 770422

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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 10

Defect Description:

CHECKS 1/8"/ SURFACE SOFT TO 1/8"

End Bent 2	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 27 **Lvl 2:** 27 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 27

Defect Description:

DECAY ON HORIZONTAL BOARDS , VERTICAL SHEETING IN PLACE BEHIND, RANDOM SCAB BOARDS

End Bent 2	Row 1	Caps	1
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Element: 235 **Name** Timber Pier Cap **Qty:** 20 **Lvl 2:** 0 **Lvl 3** 20 **Lvl 4** 0 **Maint. Qty** 20

Defect Description:

ROLLED BACK +/-1"

CRUSHING UNDER JOISTS TO 3/8"

End Bent 2	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 5

Defect Description:

CHECKS 1/16"/ SURFACE SOFT TO 1/8"

End Bent 2	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 5

Defect Description:

CHECKS 1/16"/ SURFACE SOFT TO 1/8"

End Bent 2	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 5

Defect Description:

CHECKS 1/16"/ SURFACE SOFT TO 1/8"

End Bent 2	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 5

Defect Description:

CHECKS 1/16"/ SURFACE SOFT TO 1/8"

National Bridge and NC Inspection Items

Structure Number: 770422

Inspection Date: 11/05/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	5
Item 62: Culvert	0 - 9 , 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	0	3376
Drainage System	G, F, P, or C		0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Scour	G, F, P, or C	F		
Wingwall	G, F, P, or C	P	60	3350
Field Scour Evaluation		U		
Drift	G, F, P, or C	F	30	3366
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C			
Estimated Remaining Life	0 - 100 Years	2		

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	N
Inspection Time	Hours	12
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
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: 770422

Inspection Date: 11/05/2015

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
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Details SV 16T/ TTST 24T

Item	Drift	Grade	F	Maint Code	3366	Qty.	30
------	-------	-------	---	------------	------	------	----

Details MATTRESS IN SPAN 1 LEANING AGAINST END BENT 1 P-1

Item	Scour	Grade	F	Maint Code		Qty.	0
------	-------	-------	---	------------	--	------	---

Details END BENT 1, SCOUR BELOW BOTTOM HORIZONTAL BOARDS EXPOSING VERTICAL SHEETING
P-1 - 0.7' VERTICAL
P-2 - 1.3' VERTICAL
P-3 - 1.7' VERTICAL
P-4 - 2' VERTICAL
SW WING - 4" VERTICAL EXPOSURE BELOW BOTTOM HORIZONTAL WITH VERTICAL SHEETING IN PLACE

Item	Wingwalls	Grade	P	Maint Code	3350	Qty.	60
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Details SURFACE SOFT TO 1/4"
NW WING - BOARD 3 - DECAY 2' LONG X 3" WIDE X 5" VERTICAL
NE WING PILE DECAYED TOP DOWN 20" X 5" WIDE X 2" DEEP



SE CORNER - MISSING DELINEATOR



SPAN 1, LEFT RAIL - CHECK IN WHEELGUARD



SPAN 1, RIGHT RAIL, POST 3 - BROKEN



SPAN 1, CRACKS BETWEEN DECK BOARDS



SPAN 2, LEFT RAIL, POST 5 - BROKEN



SPAN 2, WHEELGUARD, EAST END - DECAY 2" VERTICAL X 18" LONG X 2" DEEP



SPAN 2, CRACKS BETWEEN DECK BOARDS



END BENT 1 CAP - DECAY AT NORTH END



LOOKING EAST



SOUTH PROFILE



LOOKING SOUTH



LOOKING NORTH



NORTH PROFILE



LOOKING WEST



SW WING/EXTERIOR BULKHEAD



NW WING/EXTERIOR BULKHEAD



NE WING/EXTERIOR BULKHEAD



SE WING/EXTERIOR BULKHEAD



SPAN 1 RAIL



SPAN 2 - DECAY ON DECK BOARD

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

Run Date: 05/31/2016

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770422	SUFFICIENCY RATING =		50
(8) STRUCTURE NUMBER(FEDERAL)	000000001550422	STATUS =		Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31021050				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1				
(3) COUNTY CODE 155	(4) PLACE CODE	0			
(6) FEATURE INTERSECTED - JACKSON SWAMP					
(7) FACILITY CARRIED SR2105					
(9) LOCATION 0.5 MI. E. OF JCT. SR1002					
(11) MILEPOINT	0				
(16) LAT 34° 38' 2.25"	(17) LONG 78° 54' 51.78"				
(98) BORDER BRIDGE STATE CODE	PCT SHARE				
(99) BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN: Wood or Timber			(112) NBIS BRIDGE SYSTEM -	YES	
TYPE - Stringer Multibeam or Girder	CODE	702	(104) HIGHWAY SYSTEM Is not on NHS	0	
(44) STRUCTURE TYPE APPR :			(26) FUNCTIONAL CLASS - Local	09	
TYPE -	CODE	000	(100) STRAHNET HIGHWAY - Not a STRAHNET Route	0	
(45) NUMBER OF SPANS IN MAIN UNIT	2	(101) PARALLEL STRUCTURE - No Parallel Structure		N	
(46) NUMBER OF APPROACH SPANS			(102) DIRECTION OF TRAFFIC - 2-way Traffic	2	
(107) DECK STRUCTURE TYPE - 8	CODE		(103) TEMPORARY STRUCTURE -		
(108) WEARING SURFACE / PROTECTIVE SYSTEM :			(110) DESIGNATED NATIONAL NETWORK - Not on the National Network	0	
(A) TYPE OF WEARING SURFACE -	CODE		(20) TOLL On Free Road	3	
(B) TYPE OF MEMBRANE -	CODE		(31) MAINTAIN - State Highway Agency	01	
(C) TYPE OF DECK PROTECTION -	CODE		(22) OWNER - State Highway Agency	01	
			(37) HISTORICAL SIGNIFICANCE - Not Eligible	5	
				CONDITION	
(58) DECK			5		
(59) SUPERSTRUCTURE			4		
(60) SUBSTRUCTURE			5		
(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-14			26		
(65) INVENTORY RATING METHOD - Allowable Stress			2		
(66) INVENTORY RATING - HS-11			19		
(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			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 60	(115) YEAR FUTURE ADT	2025			
				INSPECTIONS	
(90) INSPECTION DATE			11/05/2015		
(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE		
A) FRACTURE CRIT DETAIL - NO			A)		
B) UNDERWATER INSP - YES 24Mo			B) 11/05/2015		
C) OTHER SPECIAL INSP NO			C)		
SCOUR					
AGE AND SERVICE					
(27) YEAR BUILT	1960				
(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	30				
(30) YEAR OF ADT 1996	(109) TRUCK ADT PCT	%			
(19) BYPASS OR DETOUR LENGTH	99 MI				
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN	17 FT				
(49) STRUCTURE LENGTH	36 FT				
(50) CURB OR SIDEWALK: LEFT .35 FT RIGHT .35 FT					
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	19.1 FT				
(52) DECK WIDTH OUT TO OUT	20 FT				
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	21 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	19.1 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				

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 05/31/2016

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770422	36	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR2105	JACKSON SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.5 MI. E. OF JCT. SR1002		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	30 1996	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1960	SHC	3603		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		13 FT		8		FT

SUPERSTRUCTURE :	TIMBER DECK ON TIMBER JOISTS
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SUBSTRUCTURE :	END BENTS & INT.BENT:TIMBER CAPS ON TIMBER PILES @ 6' CENTERS
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SPANS :	2@18'
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BEAMS OR GIRDERS :	12 LINES OF 6"X14" TIMBER JOISTS @ VARIOUS CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4"X8" TIM, 1.2" AWS		20 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.1 FT	19.8 FT	LT .35 FT RT .35 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-11	HS-14	J#4 Sp2	SV 16	TTST	24	DATE	12/21/2011

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

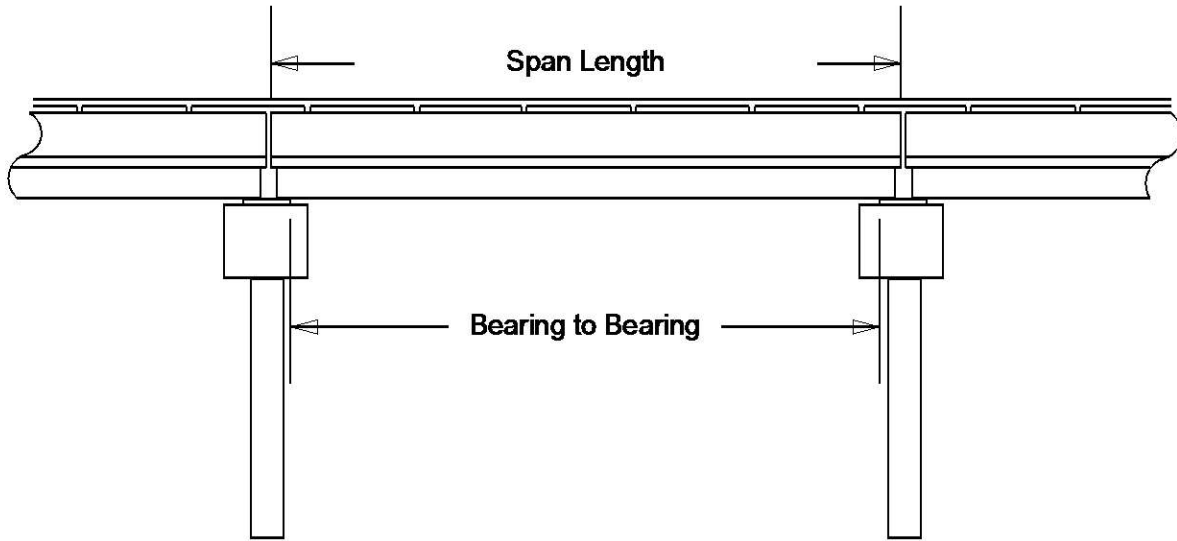
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: **ROBESON** Structure No: **770422** Date: Inspected By: **WRM**



Span No	Span Length	Bearing to Bearing	Comments
1	18FT	17.3 FT	
2	18 FT	17.3 FT	NBIS - 34.6'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770422 County: ROBESON Date: _____ By: WRM

Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 3 Location of Highwater Mark: ON DECK

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3	FILL FACE			
0.1	3	TOP OF BULKHEAD			
0.3	4.5	Top of Cap			
0.4	7.6	Water Surface/Water Edge (WSWE)			
1	13.5	END BENT 1	1	12.5	END BENT 1
5	13.8				
10	13.4				
17.2	13.5	BENT 1	17.2	15.4	BENT 1
20	12.9				
25	11.2				
30	8.8				
35.9	8.4	END BENT 2	35.9	11.4	END BENT 2
35.91	7.6	Water Surface/Water Edge (WSWE)			
35.99	4.5	Top of Cap			
36	3	TOP OF BULKHEAD			
36.1	3.2	FILL FACE			

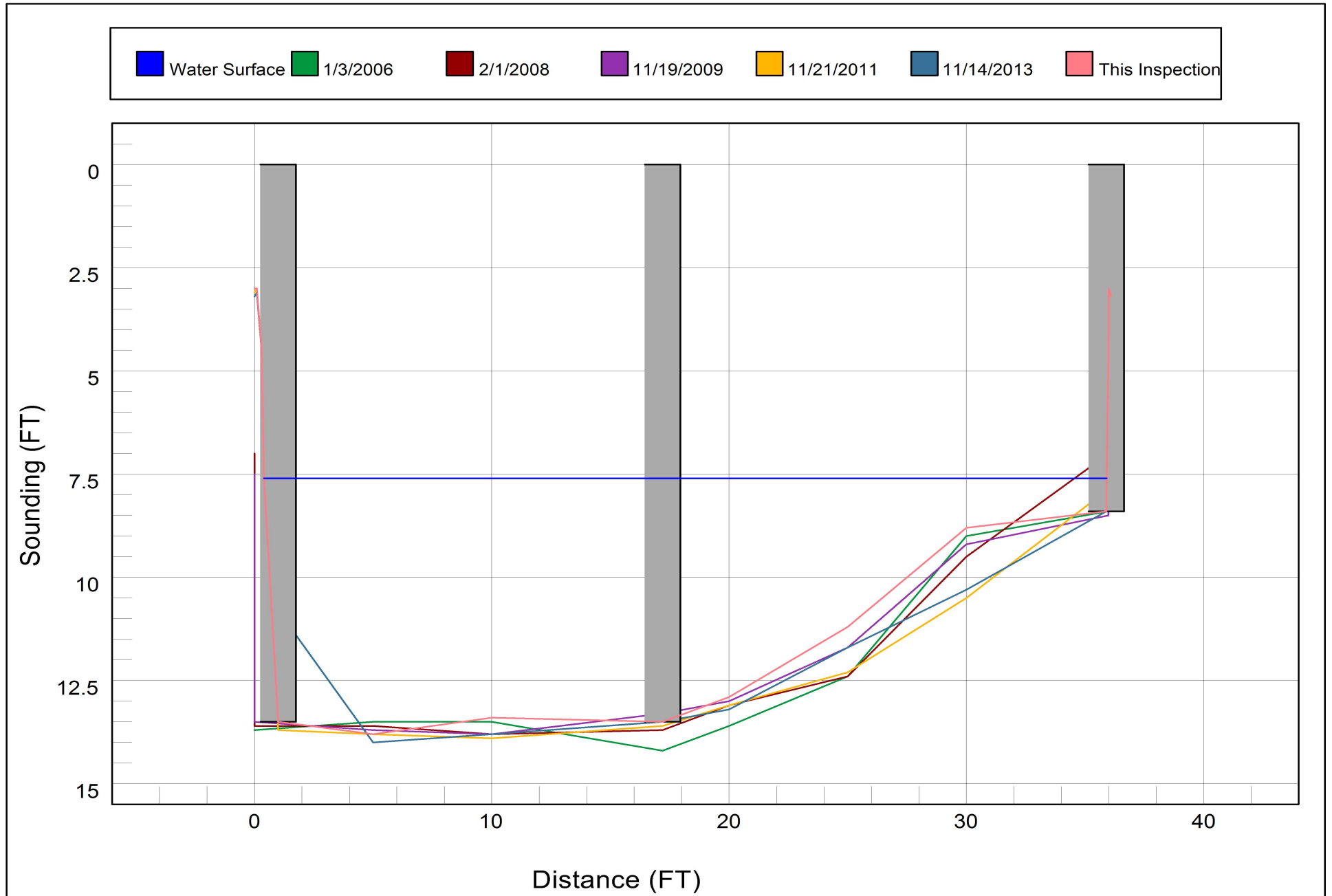
Bridge: 770422

County ROBESON

Date:

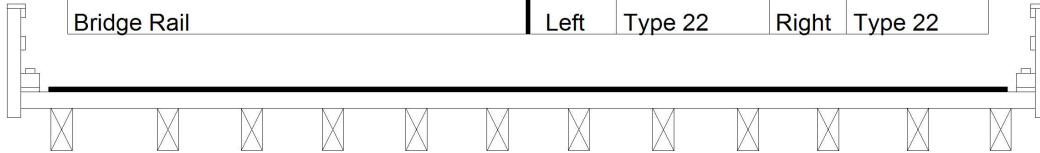
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

Deck Width/Out to Out	20ft	Between Rails			19.8ft
Clear Roadway	19.1ft	Wearing Surface			0.1ft
Median Width		Median Height			
Curb Height		Left		Right	
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left		Right	
Top of Rail to Deck/Wearing Surface		Left	2.9ft	Right	2.9ft
Bridge Rail		Left	Type 22	Right	Type 22



Measurements for Span #	1		
Deck Thickness	0.33	Left Overhang	0.8
Top of Rail to Bottom of Beam	4.5	Right Overhang	0.8

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	2.10ft	
2	Timber (Rectangular)	1.65ft	
3	Timber (Rectangular)	1.60ft	
4	Timber (Rectangular)	1.65ft	
5	Timber (Rectangular)	1.60ft	
6	Timber (Rectangular)	1.60ft	
7	Timber (Rectangular)	1.67ft	
8	Timber (Rectangular)	1.67ft	
9	Timber (Rectangular)	1.58ft	
10	Timber (Rectangular)	1.77ft	
11	Timber (Rectangular)	1.63ft	
12	Timber (Rectangular)	ft	

Title
SUPERSTRUCTURE 1

Description
SPAN 1

Bridge No: 770422

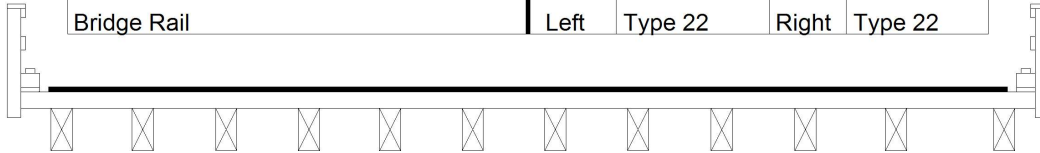
Drawn By: WRM

Date: 1/3/2008

File Name: S0178000538

Bridge Inspection Field Sketch

Deck Width/Out to Out	20ft	Between Rails			19.80ft
Clear Roadway	19.10ft	Wearing Surface			0.10ft
Median Width		Median Height			
Curb Height		Left		Right	
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left		Right	
Top of Rail to Deck/Wearing Surface		Left	2.9ft	Right	2.9ft
Bridge Rail		Left	Type 22	Right	Type 22



Measurements for Span #	2		
Deck Thickness	0.33	Left Overhang	0.8
Top of Rail to Bottom of Beam	4.5	Right Overhang	0.8

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.60ft	
2	Timber (Rectangular)	1.65ft	
3	Timber (Rectangular)	1.63ft	
4	Timber (Rectangular)	1.60ft	
5	Timber (Rectangular)	1.63ft	
6	Timber (Rectangular)	1.63ft	
7	Timber (Rectangular)	1.63ft	
8	Timber (Rectangular)	1.65ft	
9	Timber (Rectangular)	1.65ft	
10	Timber (Rectangular)	1.79ft	
11	Timber (Rectangular)	2.13ft	
12	Timber (Rectangular)	ft	

Title
SUPERSTRUCTURE 2

Description
SPAN 2

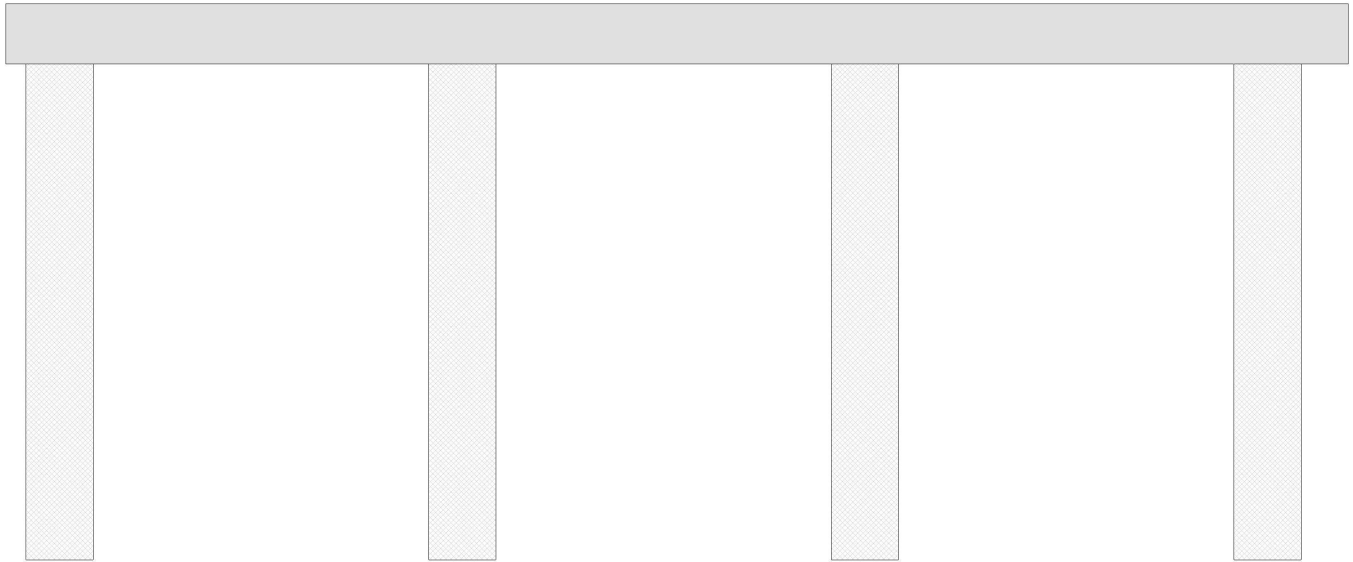
Bridge No: 770422

Drawn By: WRM

Date: 12/3/2013

File Name: S0174012844

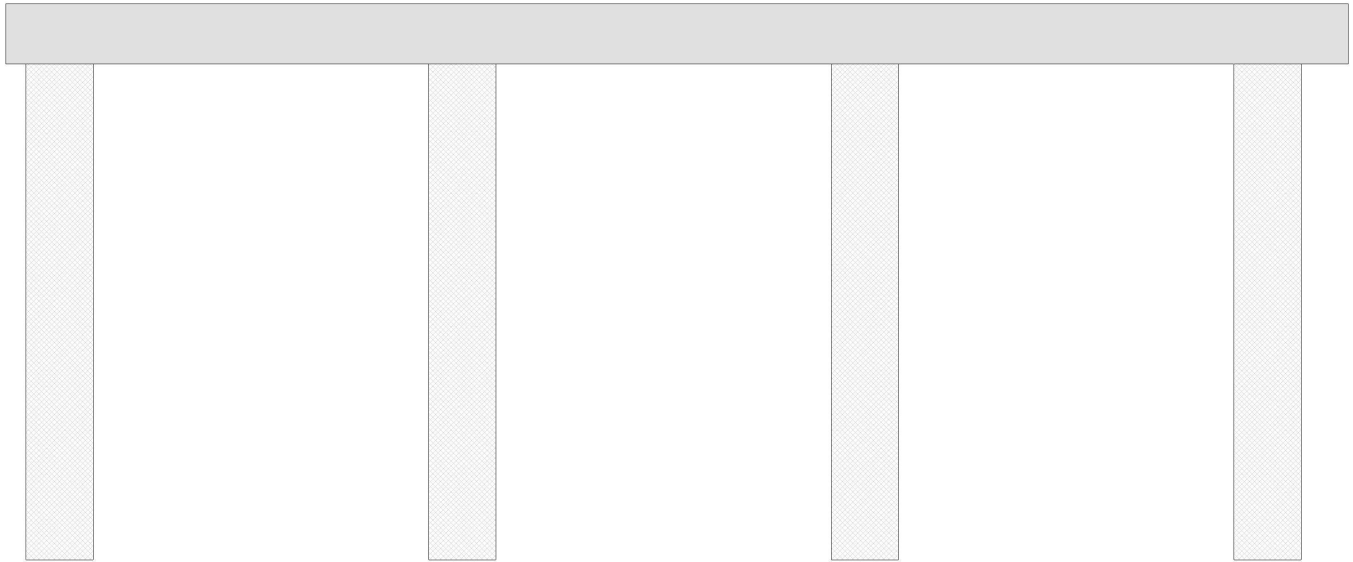
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.000 ft.	.700 ft.	.900 ft.	.800 ft.	.830 ft.	.600 ft.	.600 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 ft.		15 ft.	Vertical	No	No	No	No
2	Timber	6 ft.	1 ft.		15 ft.	Vertical	No	No	No	No
3	Timber	6 ft.	1 ft.		15 ft.	Vertical	No	No	No	No
4	Timber	6 ft.	1 ft.		15 ft.	Vertical	No	No	No	No
Bent/Abutment #: 1			Similar Bents: 2							

Title SUBSTRUCTURE 1			Description END BENTS		
Bridge No: 770422	Drawn By: WRM	Date: 11/23/2015	File Name: S0174013144		

Bridge Inspection Field Sketch



Cap Information				Material						
Length 20 ft.	Width 0.7 ft.	Height 0.9 ft.	Left Overhang 0.8 ft.	Right Overhang 0.83 ft.	Left Beam to End of Cap. 0.6 ft.	Right Beam to End of Cap. 0.6 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 ft.			Vertical	No	No	No	No
2	Timber	6 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	6 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	6 ft.	1 ft.			Vertical	No	No	No	No
TIMBER CROSS-BRACING - 3" X 10" TIMBER(BOLTED)										
Bent/Abutment #: 1 Similar Bents:										

Title				Description			
SUBSTRUCTURE 2				BENT 1			
Bridge No:	770422	Drawn By:	WRM	Date:	11/23/2015	File Name:	S0174013145

Bridge Inspection Field Sketch



Roadway	20.83ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPROACH ROADWAY

Description

R/W

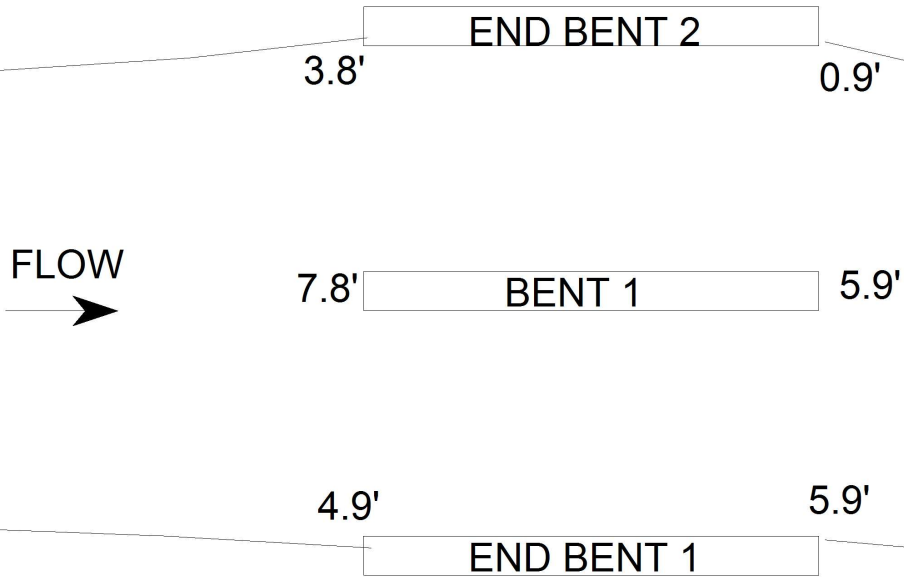
Bridge No: 770422

Drawn By: WRM

Date: 11/23/2015

File Name: S0174013146

Bridge Inspection Field Sketch



W/S TO TOP OF RAIL - 7.6'

Title

PLAN VIEW

Description

CHANNEL OVERVIEW

Bridge No: 770422

Drawn By: WRM

Date: 11/23/2015

File Name: S0174013147