



NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

2 Year Complete Topside and Underwater Element Inspection

COUNTY: ROBESON STRUCTURE NUMBER: 770228 FREQUENCY: 24 MONTHSFACILITY CARRIED: SR1513 MILE POST: LOCATION: 0.6 MI. SW OF JCT. SR1318FEATURE INTERSECTED: BURNT SWAMPLATITUDE: 34° 43' 29.74" LONGITUDE: 79° 8' 33.3"SUPERSTRUCTURE: RC FLOOR ON TIMBER JOIST,BMD-10SUBSTRUCTURE: E.BTS&INT.BTS:TIMBER CAPS/TIMBER PILES@VAR. CTS.SPANS: 1@17.75'; 1@17'; 1@17.75'☐ FRACTURE CRITICAL ☒ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTIONPRESENT CONDITION: Fair INSPECTION DATE: 12/09/2015POSTED SV: 20 POSTED TTST: 29OTHER SIGNS PRESENT: 

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
WILLIAM MUELLER

SIGNATURE

*Will R. Mueller*ASSISTED BY JAMES TALACEK, PATRICK
RUTHERFORD

Span Element Report

Structure Number: 770228

Inspection Date: 12/09/2015

Span Number 1

Span Length 17.75 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	450	0	425	25	0	450	3326
111		Timber Open Girder/Beam	361	0	361	0	0	361	3304
216		Timber Abutment	32	0	0	32	0	32	3346
228		Timber Pile	5	0	4	1	0	5	3344
235		Timber Pier Cap	26	0	0	26	0	26	3344
330		Metal Bridge Railing	36	34	2	0	0	2	3322

"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 17 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	431	0	414	17	0	431	3326
111		Timber Open Girder/Beam	342	0	341	1	0	342	3304
228		Timber Pile	4	0	4	0	0	18	3344
235		Timber Pier Cap	26	0	0	26	0	26	3344
330		Metal Bridge Railing	34	24	10	0	0	10	3322

"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 3

Span Length 17.75 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	450	0	364	86	0	450	3326
111		Timber Open Girder/Beam	361	0	361	0	0	361	3304
216		Timber Abutment	32	0	0	32	0	32	3346
228		Timber Pile	8	0	8	0	0	14	3344
235		Timber Pier Cap	52	0	0	52	0	52	3344
330		Metal Bridge Railing	36	26	10	0	0	10	3322

"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: 770228

Inspection Date: 12/09/2015

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	12	Reinforced Concrete Deck	450	0	425	25	0	450	3326	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	18	17	1	0	0	1	3322	☐ Requested
☒ Bridge Rail	2	330	Metal Bridge Railing	18	17	1	0	0	1	3322	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested

Structure Number: 770228

Inspection Date: 12/09/2015

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	12	Reinforced Concrete Deck	431	0	414	17	0	431	3326	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	17	9	8	0	0	8	3322	☐ Requested
☒ Bridge Rail	2	330	Metal Bridge Railing	17	15	2	0	0	2	3322	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	18	0	17	1	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	18	0	0	18	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	18	0	18	0	0	18	3304	☐ Requested

Structure Number: 770228

Inspection Date: 12/09/2015

Span Number 3

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	450	0	364	86	0	450	3326	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	18	14	4	0	0	4	3322	☐ Requested
☒ Bridge Rail	2	330	Metal Bridge Railing	18	12	6	0	0	6	3322	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	19	0	19	0	0	19	3304	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 770228

Inspection Date: 12/09/2015

Span Number 1

Span	1	Deck	1	Component Name:	Reinforced Concrete Deck				
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Element: 12 Name Reinforced Concrete Deck Qty: 450 Lvl 2: 425 Lvl 3: 25 Lvl 4: 0 Maint. Qty: 450

Defect Description:

TRANSVERSE CRACK TO 1/8", +/-1' FROM JOINT X FULL WIDTH
LONGITUDINAL CRACK TO 1/16" NEAR C/L X FULL LENGTH
H/L MAP CRACKING THROUGHOUT

Span	1	Bridge Rail	1	Component Name:	Steel Rail				
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Element: 330 Name Metal Bridge Railing Qty: 18 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 1

Defect Description:

1 Square Feet of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span	1	Bridge Rail	2	Component Name:	Steel Rail				
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Element: 330 Name Metal Bridge Railing Qty: 18 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 1

Defect Description:

1 Square Feet of Corrosion: Freckled rust. Corrosion of the steel has initiated.

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

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: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 19

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: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 19

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: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 19

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: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 19

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: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 19

Defect Description:

CHECKS TO 1/16"

Span	1	Beam	7	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 19

Defect Description:

CHECKS TO 1/16"

Span	1	Beam	8	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 19 Lvl 2: 19 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 19

Defect Description:

CHECKS TO 1/16"

Inspection Date: 12/09/2015

Span	1	Beam	9	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	10	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	11	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	12	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	13	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	14	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	15	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	16	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	17	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	18	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													
Span	1	Beam	19	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:													
CHECKS TO 1/16"													

Span	2	Deck	1	Component Name:		Reinforced Concrete Deck							
Element:	12	Name	Reinforced Concrete Deck	Qty:	431	Lvl 2:	414	Lvl 3	17	Lvl 4	0	Maint. Qty	431
Defect Description: LONGITUDINAL CRACK TO 1/8" NEAR C/L H/L MAP CRACKING THROUGHOUT													

Inspection Date: 12/09/2015

Span	2	Bridge Rail	1	Component Name:	Steel Rail							
Element:	330	Name	Metal Bridge Railing	Qty:	17	Lvl 2:	8	Lvl 3	0	Lvl 4	0 Maint. Qty	8
Defect Description:												
8 Square Feet of Corrosion: Freckled rust. Corrosion of the steel has initiated.												
Span	2	Bridge Rail	2	Component Name:	Steel Rail							
Element:	330	Name	Metal Bridge Railing	Qty:	17	Lvl 2:	2	Lvl 3	0	Lvl 4	0 Maint. Qty	2
Defect Description:												
2 Square Feet of Corrosion: Freckled rust. Corrosion of the steel has initiated.												
Span	2	Beam	1	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 2 - DECAY BEHIND SPLICE BOARD, FULL HEIGHT X 3" WIDE X 1.25" DEEP												
SPLICE BLOCK AT BENT 2 DECAYED, 12" LONG X 3.5" VERTICAL X FULL WIDTH												
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"												
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					
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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 2	Beam	12	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 2	Beam	13	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 2	Beam	14	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 2	Beam	15	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 2	Beam	16	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 2	Beam	17	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 2	Beam	18	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 2	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

Defect Description:

CHECKS TO 1/16"

Span Number 3

Span 3	Deck	1	Component Name:	Reinforced Concrete Deck					
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Element: 12 **Name** Reinforced Concrete Deck **Qty:** 450 **Lvl 2:** 364 **Lvl 3** 86 **Lvl 4** 0 **Maint. Qty** 450

Defect Description:

TRANSVERSE CRACK TO 1/8", +/-1' FROM JOINT X FULL WIDTH
(4) LONGITUDINAL CRACKS TO 1/8"(MAX.)
H/L MAP CRACKING THROUGHOUT

Span 3	Bridge Rail	1	Component Name:	Steel Rail					
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Element: 330 **Name** Metal Bridge Railing **Qty:** 18 **Lvl 2:** 4 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 4

Defect Description:

4 Square Feet of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 3	Bridge Rail	2	Component Name:	Steel Rail					
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Element: 330 **Name** Metal Bridge Railing **Qty:** 18 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

Inspection Date: 12/09/2015

3	Beam	1	Component Name:
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Span	3	Beam	1	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
AT BENT 2 - FACIAL DECAY FULL HEIGHT X 6" LONG X 1/2" DEEP												
Span	3	Beam	2	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	3	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	4	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	5	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	6	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	7	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	8	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	9	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	10	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	11	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												
Span	3	Beam	12	Component Name:	Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	19	Lvl 2:	19	Lvl 3	0	Lvl 4	0 Maint. Qty	19
Defect Description:												
CHECKS TO 1/16"												

Structure Number: 770228

Inspection Date: 12/09/2015

Span	3	Beam	13	Component Name:	Timber Joist				
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Element: 111 **Name** Timber Open Girder/Beam **Qty:** 19 **Lvl 2:** 19 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 19

Defect Description:

CHECKS TO 1/16"

Span	3	Beam	14	Component Name:	Timber Joist				
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Element: 111 **Name** Timber Open Girder/Beam **Qty:** 19 **Lvl 2:** 19 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 19

Defect Description:

CHECKS TO 1/16"

Span	3	Beam	15	Component Name:	Timber Joist				
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Element: 111 **Name** Timber Open Girder/Beam **Qty:** 19 **Lvl 2:** 19 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 19

Defect Description:

CHECKS TO 1/16"

Span	3	Beam	16	Component Name:	Timber Joist				
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Element: 111 **Name** Timber Open Girder/Beam **Qty:** 19 **Lvl 2:** 19 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 19

Defect Description:

CHECKS TO 1/16"

Span	3	Beam	17	Component Name:	Timber Joist				
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Element: 111 **Name** Timber Open Girder/Beam **Qty:** 19 **Lvl 2:** 19 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 19

Defect Description:

CHECKS TO 1/16"

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

Defect Description:

CHECKS TO 1/16"

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

Defect Description:

CHECKS TO 1/16"

Substructure Detailed Element Quantities

Structure Number: 770228

Inspection Date: 12/09/2015

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	26	0	0	26	0	26	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	32	0	0	32	0	32	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	26	0	0	26	0	26	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	4	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	4	3344	☐ Requested

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	0	26	0	26	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	3	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	3	3344	☐ Requested

Structure Number: 770228

Inspection Date: 12/09/2015

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	0	26	0	26	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	32	0	0	32	0	32	3346	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 770228

Inspection Date: 12/09/2015

End Bent 1

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

Defect Description:

CHECKS TO 1/2"/ SOFT TO 1/8"
EAST END - DECAY AT BOTTOM AGAINST BULKHEAD, 6" VERTICAL X 3" WIDE X 18" DEEP(PROBE)

End Bent 1	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** 1

Defect Description:

LOW CLEARANCE/ LIMITED ACCESS TO PILES(+/-6")
CHECKS TO 1/8"/ SOFT TO 1/2"

End Bent 1	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** 1

Defect Description:

LOW CLEARANCE/ LIMITED ACCESS TO PILES(+/-6")
CHECKS TO 1/8"/ SOFT TO 1/2"

End Bent 1	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** 1

Defect Description:

LOW CLEARANCE/ LIMITED ACCESS TO PILES(+/-6")
CHECKS TO 1/8"/ SOFT TO 1/2"

End Bent 1	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** 1

Defect Description:

SISTER PILE TO P-5
CHECKS TO 1/8"/ SOFT TO 1/8"

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

Defect Description:

CHECKS TO 1/4"/ SOFT SPOT DECAY TO 1" DEEP

End Bent 1	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 32 **Lvl 2:** 0 **Lvl 3** 32 **Lvl 4** 0 **Maint. Qty** 32

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/4"
AREAS OF DECAY WITH FILL LEAKAGE

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

Defect Description:

CHECKS TO 1/2"/ SOFT TO 1/8"
WEST END - NORTH SIDE(BOTTOM) - DECAY 3" VERTICAL X 4" WIDE X 7" DEEP
NORTH SIDE(TOP) - DECAY 3" VERTICAL X 2" WIDE X 9" DEEP
SOUTH SIDE(TOP) - DECAY 1" VERTICAL X 2" WIDE X 7" DEEP
CROWN STRIP DECAYED/SPLIT TO 1/2"

Bent 1	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 TO 1/8"/ SOFT TO 1/2"

Bent 1	Row 1	Piles and Columns	2
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Structure Number: 770228

Inspection Date: 12/09/2015

Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 5

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/2"

Bent 1	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** 4

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/2"

SOUTH QUADRANT - DECAY TOP OF PILE, 4" VERTICAL X 2" WIDE X 1/2" DEEP

Bent 1	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** 4

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/2"

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

Defect Description:

CHECKS TO 1/2"/ SOFT TO 1/8"

WEST END - SPLIT FULL HEIGHT TO 3/8" X 6" PROBE

DECAY AT TOP 2.5" VERTICAL X 4" WIDE X 7" DEEP

EAST END - SPLIT FULL HEIGHT TO 1/2" X 7" PROBE

DECAY AT TOP 2.75" VERTICAL X 8" WIDE X 10" PROBE

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** 2

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/2"

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** 2

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/2"

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** 3

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/2"

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** 3

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/2"

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

Defect Description:

CHECKS TO 1/2"/ SOFT TO 1/8"

WEST END - DECAY 3" FROM BULKHEAD, 2" VERTICAL X 3" WIDE X 14" PROBE

CROWN DECAYED FULL HEIGHT X 2" WIDE EXTENDING UNDER JOIST

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** 1

Defect Description:

LOW CLEARANCE/ LIMITED ACCESS TO PILES(+/-6")

CHECKS TO 1/8"/ SOFT TO 1/2"

End Bent 2	Row 1	Piles and Columns	2
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Structure Number: 770228

Inspection Date: 12/09/2015

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

Defect Description:

LOW CLEARANCE/ LIMITED ACCESS TO PILES(+/-6")
CHECKS TO 1/8"/ SOFT TO 1/2"

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** 1

Defect Description:

LOW CLEARANCE/ LIMITED ACCESS TO PILES(+/-6")
CHECKS TO 1/8"/ SOFT TO 1/2"

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** 1

Defect Description:

LOW CLEARANCE/ LIMITED ACCESS TO PILES(+/-6")
CHECKS TO 1/8"/ SOFT TO 1/2"

End Bent 2	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 32 **Lvl 2:** 0 **Lvl 3** 32 **Lvl 4** 0 **Maint. Qty** 32

Defect Description:

CHECKS TO 1/8"/ SOFT TO 1/4"
AREAS OF DECAY WITH FILL LEAKAGE

National Bridge and NC Inspection Items

Structure Number: 770228

Inspection Date: 12/09/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
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	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	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	F	40	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	N
Inspection Time	Hours	15
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: 770228

Inspection Date: 12/09/2015

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
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Details SV 20T/ TTST 29T

Item	Drainage System	Grade	G	Maint Code	3332	Qty.	0
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Details NO PROBLEMS NOTED

Item	Drift	Grade	G	Maint Code	3366	Qty.	0
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Details NO PROBLEMS NOTED AT STRUCTURE
BEAVER DAMS UP AND DOWNSTREAM

Item	Scour	Grade	G	Maint Code		Qty.	0
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Details NO PROBLEMS NOTED

Item	Response to live load	Grade	G	Maint Code		Qty.	0
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Details NO PROBLEMS NOTED

Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	40
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Details AREAS OF DECAY AND DISPLACED BOARDS



SE POSTING SIGN DEFACED



SPAN 1, TRANVERSE CRACK TO 1/8"



SPAN 1, LONGITUDINAL CRACK TO 1/16"



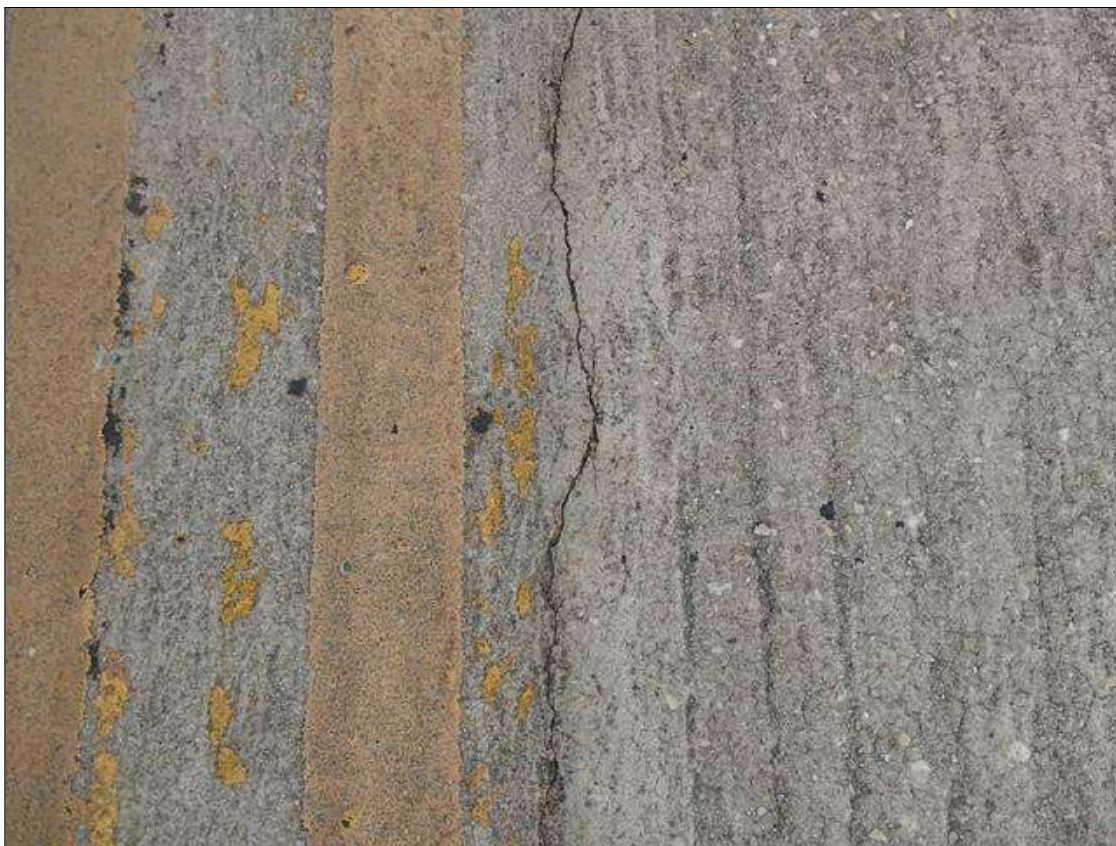
SPAN 1, H/L MAP CRACKING



SPAN 1, CURB - COARSE AGGREGATE EXPOSED



SPAN 1, LEFT RAIL - SPOT RUST



SPAN 2, LONGITUDINAL CRACK TO 1/8"



SPAN 2, LEFT RAIL - SURFACE RUST



BEAVER DAM UPSTREAM



SPAN 3 - LONGITUDINAL TO 1/8" NEAR C/L



SE EXTERIOR BULKHEAD - BOARD 4 100% DECAYED WITH FILL EXPOSED



MISSING BOLT NW TERMINAL END



BENT 1 CAP, DECAY AT WEST END



J-1 AT BENT 1 MISSING BOLT IN SPLICE BLOCK



BENT 1 CAP, DECAY AT EAST END



BENT 2 - DECAY IN SPLICE BLOCK AT J-1



BENT 2 CAP, DECAY AT WEST END



BENT 2 CAP, SPLIT AT WEST END



BENT 2 CAP, SPLIT AT EAST END



END BENT 2, DECAY AT WEST END



LOOKING NORTH



EAST PROFILE



LOOKING EAST



LOOKING WEST



WEST PROFILE



LOOKING SOUTH



SW WING/EXTERIOR BULKHEAD



NW WING/EXTERIOR BULKHEAD



NE WING/EXTERIOR BULKHEAD



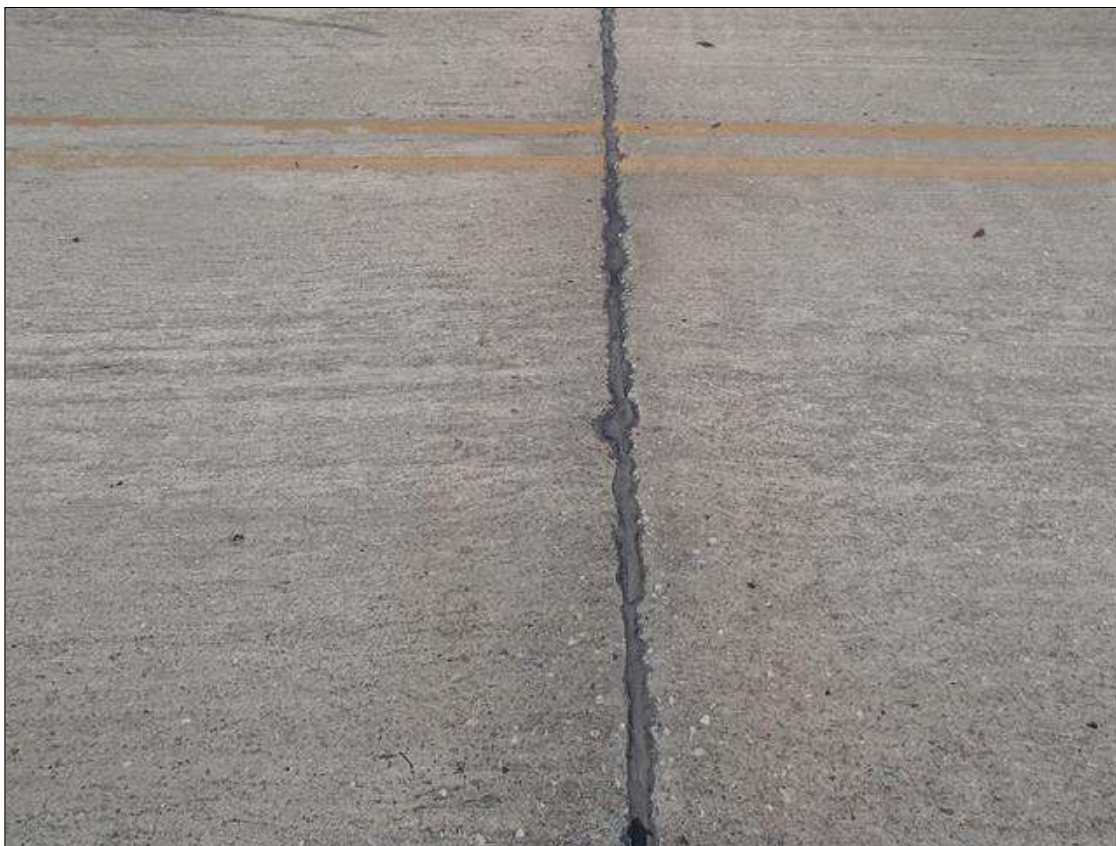
SE WING/EXTERIOR BULKHEAD



RAIL CURB OVERVIEW



DECK OVERVIEW



TYPICAL JOINT



SPAN 1, SECOND SECTION OF RAIL(GALVANIZED)



END BENT 1



BENT 1 SPAN 1 SIDE

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

Run Date: 06/27/2016

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770228	SUFFICIENCY RATING =		28.84
(8) STRUCTURE NUMBER(FEDERAL)	000000001550228	STATUS =		Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31015130				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1				
(3) COUNTY CODE 155	(4) PLACE CODE	0			
(6) FEATURE INTERSECTED - BURNT SWAMP					
(7) FACILITY CARRIED SR1513					
(9) LOCATION 0.6 MI. SW OF JCT. SR1318					
(11) MILEPOINT	0				
(16) LAT 34° 43' 29.74"	(17) LONG 79° 8' 33.30"				
(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	3	(101) PARALLEL STRUCTURE - No Parallel Structure		N	
(46) NUMBER OF APPROACH SPANS			(102) DIRECTION OF TRAFFIC - 2-way Traffic	2	
(107) DECK STRUCTURE TYPE - 1	CODE		(103) TEMPORARY STRUCTURE - Temporary Structure/Conditions	T	
(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	5
				(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-1	1
				(65) INVENTORY RATING METHOD - Allowable Stress	2
				(66) INVENTORY RATING - HS-1	1
				(70) BRIDGE POSTING - Posting Required	1
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P
				DESCRIPTION - Posted for Load	
				APPRAISAL	
				(67) STRUCTURAL EVALUATION	3
				(68) DECK GEOMETRY	5
				(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 700	(115) YEAR FUTURE ADT 2025
				INSPECTIONS	
				(90) INSPECTION DATE	12/09/2015
				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
				A) FRACTURE CRIT DETAIL - NO	A)
				B) UNDERWATER INSP - YES 24Mo	B) 12/09/2015
				C) OTHER SPECIAL INSP NO	C)
				SCOUR	
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: 06/27/2016

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770228	53	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1513	BURNT SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.6 MI. SW OF JCT. SR1318		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	350 2012	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1967	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		7 FT		5		FT

SUPERSTRUCTURE :	RC FLOOR ON TIMBER JOIST,BMD-10
------------------	---------------------------------

SUBSTRUCTURE :	E.BTS&INT.BTS:TIMBER CAPS/TIMBER PILES@VAR. CTS.
----------------	--

SPANS :	1@17.75'; 1@17'; 1@17.75'
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BEAMS OR GIRDERS :	19 LINES OF 6X12 TIMBER JOISTS @ 1'4.25 CENTERS
--------------------	---

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5 RC/NO AWS		25.333 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	24.75 FT	LT .375 FT RT .375 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	Ext Joist	SV 20	29	01/11/2012

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

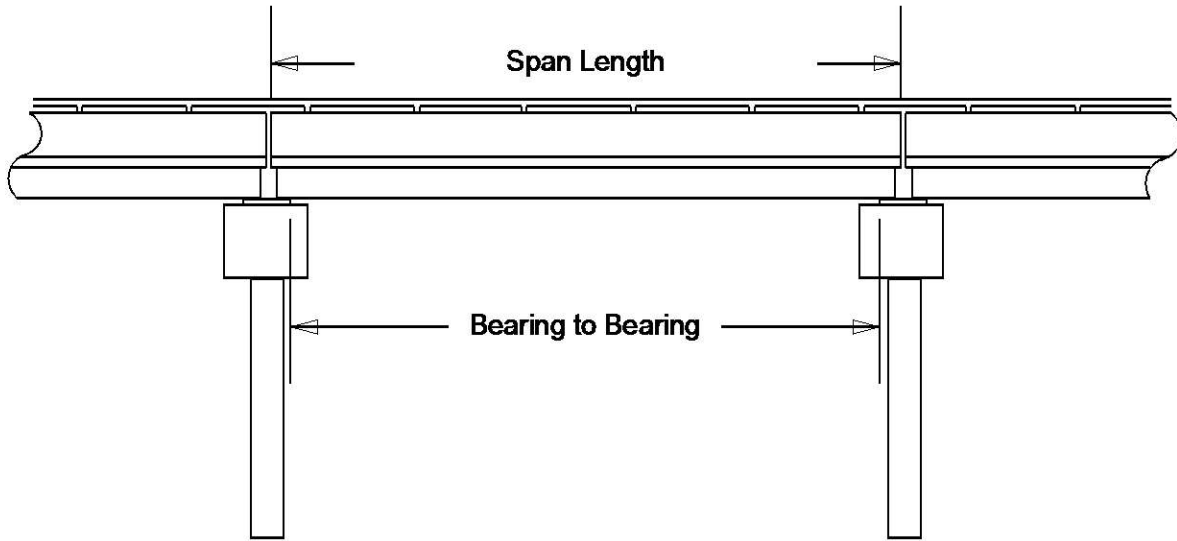
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: ROBESON Structure No: 770228 Date: Inspected By: WRM



Span No	Span Length	Bearing to Bearing	Comments
1	17.75	17.08	
2	17.0	17.0	
3	17.75	17.08	NBIS - 51.16'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770228 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: 3.5 Location of Highwater Mark: ON JOISTS

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0.01	2.9	FILL FACE			
0.02	2.8	TOP OF BULKHEAD			
0.03	4.1	Top of Cap			
0.04	5	Water Surface/Water Edge (WSWE)			
0.05	5.8	END BENT 1	0.05	6.3	END BENT 1
0.05	6.3	END BENT 1			
8	6.8				
17.5	8.3	BENT 1	17.5	10	BENT 1
17.5	10	BENT 1			
26	9.1				
34.5	6.9	BENT 2	34.5	6.9	BENT 2
34.5	8.5	BENT 2			
44	7				
51.95	5.5	END BENT 2	51.95	5.5	END BENT 2
51.95	6.2	END BENT 2			
51.96	5	Water Surface/Water Edge (WSWE)			
51.97	4.1	Top of Cap			
51.98	2.7	TOP OF BULKHEAD			
51.99	2.7	FILL FACE			

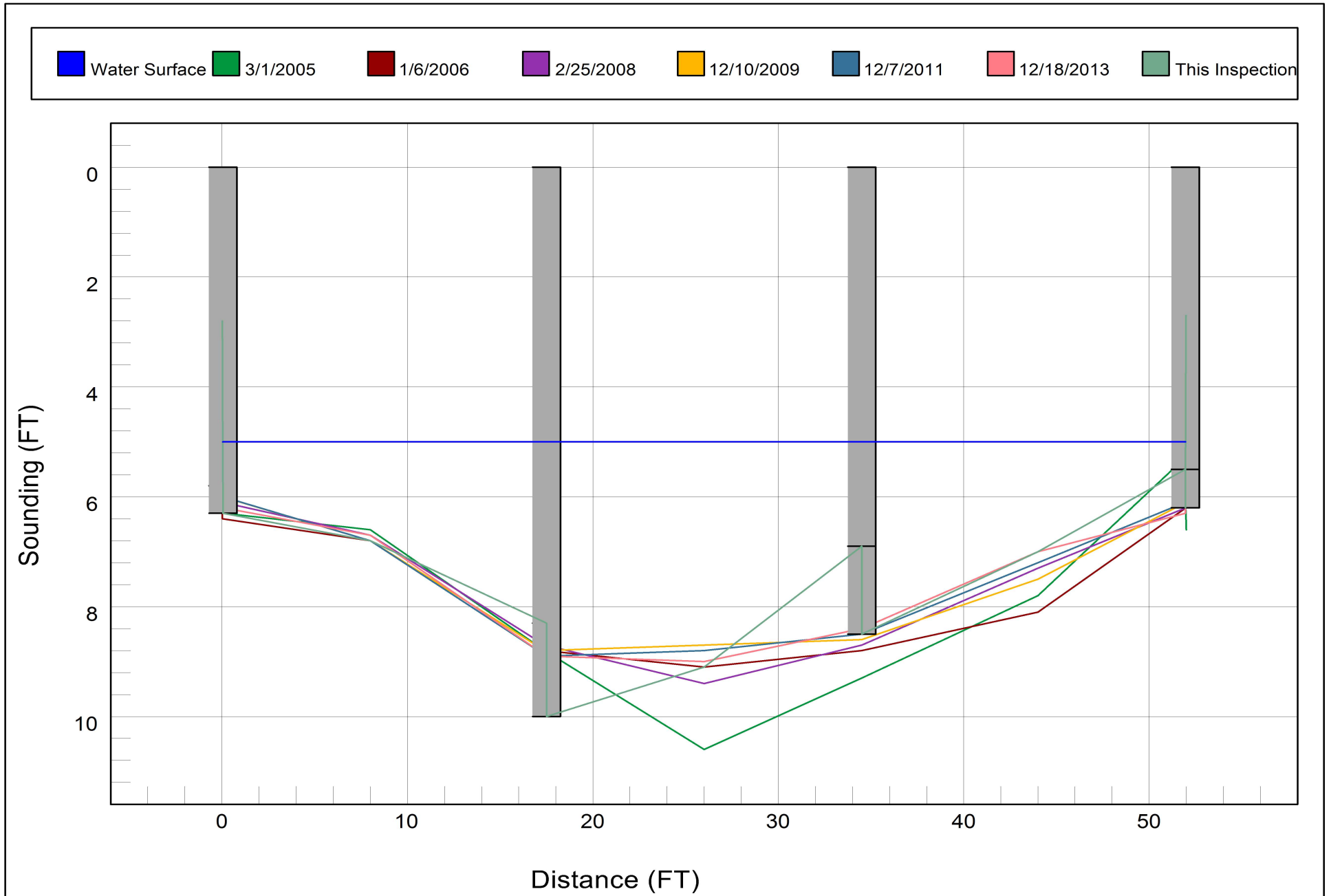
Bridge: 770228

County ROBESON

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

Title

Approach

Description

Approach Roadway

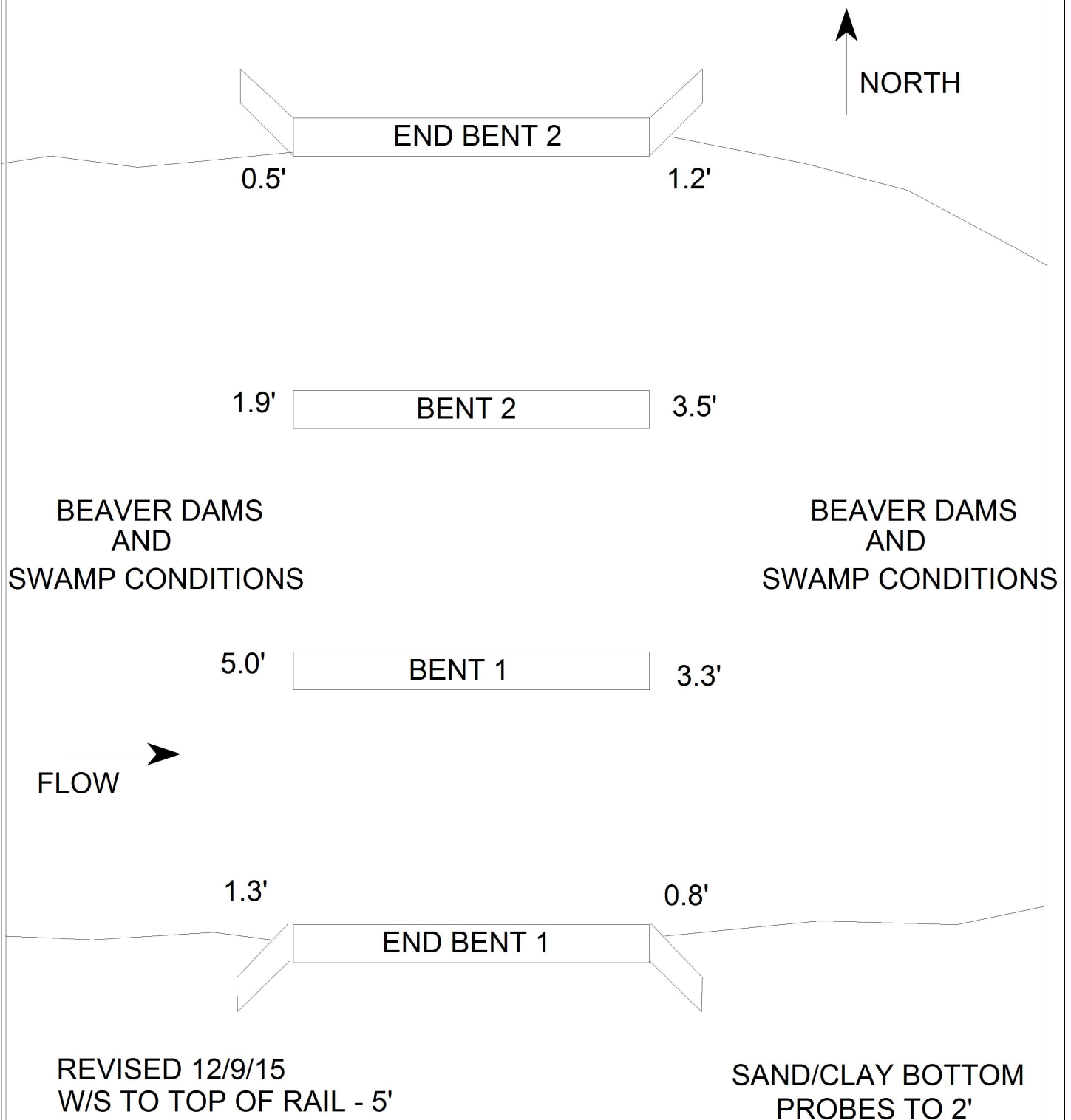
Bridge No: 770228

Drawn By: dlp

Date: 04/14/2005

File Name: S0098000036

Bridge Inspection Field Sketch



Title
PLAN VIEW

Description
CHANNEL OVERVIEW

Bridge No: 770228

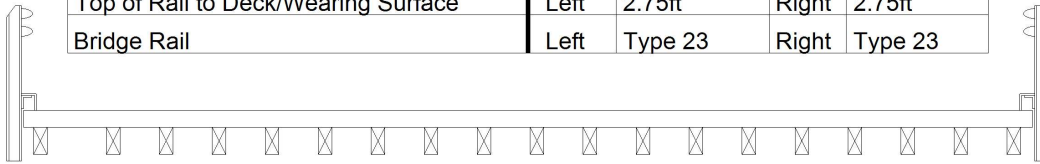
Drawn By: WRM

Date: 2/1/2008

File Name: S0178000550

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.333ft	Between Rails	24.75ft
Clear Roadway	24ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left 0.75ft	Right 0.75ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left	Right
Top of Rail to Deck/Wearing Surface		Left 2.75ft	Right 2.75ft
Bridge Rail		Left Type 23	Right Type 23



Measurements for Span #	2		
Deck Thickness	0.42	Left Overhang	0.42
Top of Rail to Bottom of Beam	4.13	Right Overhang	0.42

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	ft	
2	Timber (Rectangular)	1.83ft	
3	Timber (Rectangular)	1.33ft	
4	Timber (Rectangular)	1.33ft	
5	Timber (Rectangular)	1.33ft	
6	Timber (Rectangular)	1.33ft	
7	Timber (Rectangular)	1.33ft	
8	Timber (Rectangular)	1.33ft	
9	Timber (Rectangular)	1.33ft	
10	Timber (Rectangular)	1.33ft	
11	Timber (Rectangular)	1.33ft	
12	Timber (Rectangular)	1.33ft	
13	Timber (Rectangular)	1.33ft	
14	Timber (Rectangular)	1.33ft	
15	Timber (Rectangular)	1.33ft	
16	Timber (Rectangular)	1.33ft	
17	Timber (Rectangular)	1.33ft	
18	Timber (Rectangular)	1.33ft	
19	Timber (Rectangular)	1.33ft	

Title

SPAN 2

Description

SUPERSTRUCTURE

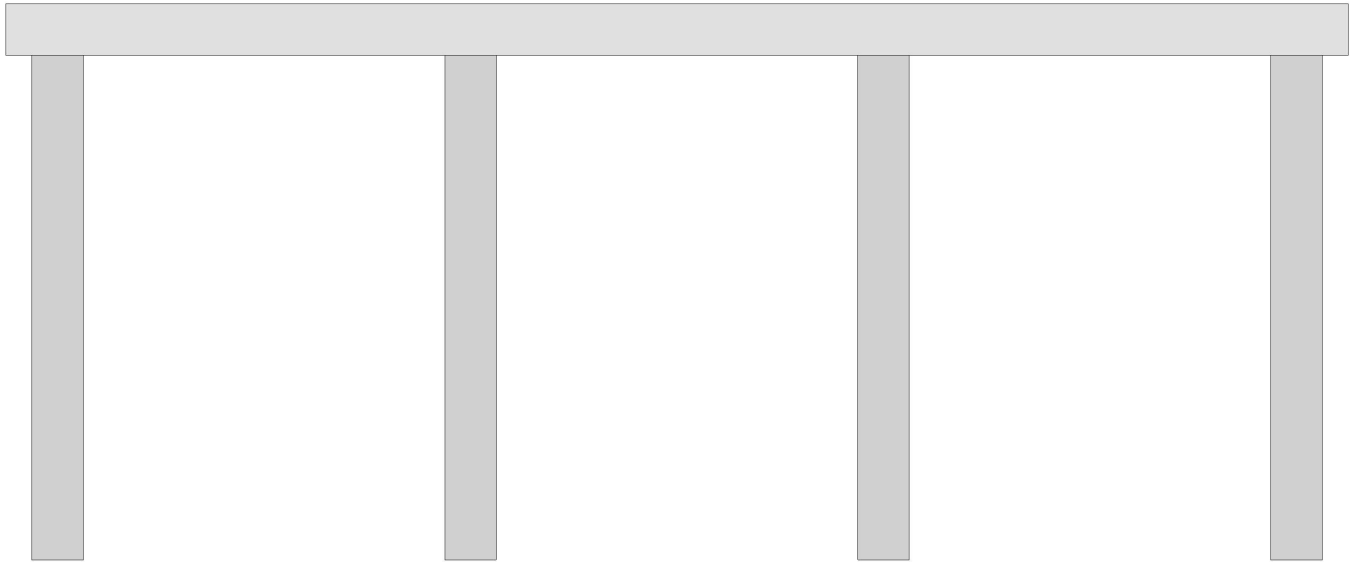
Bridge No: 770228

Drawn By: dlp

Date: 04/14/2005

File Name: S0098000037

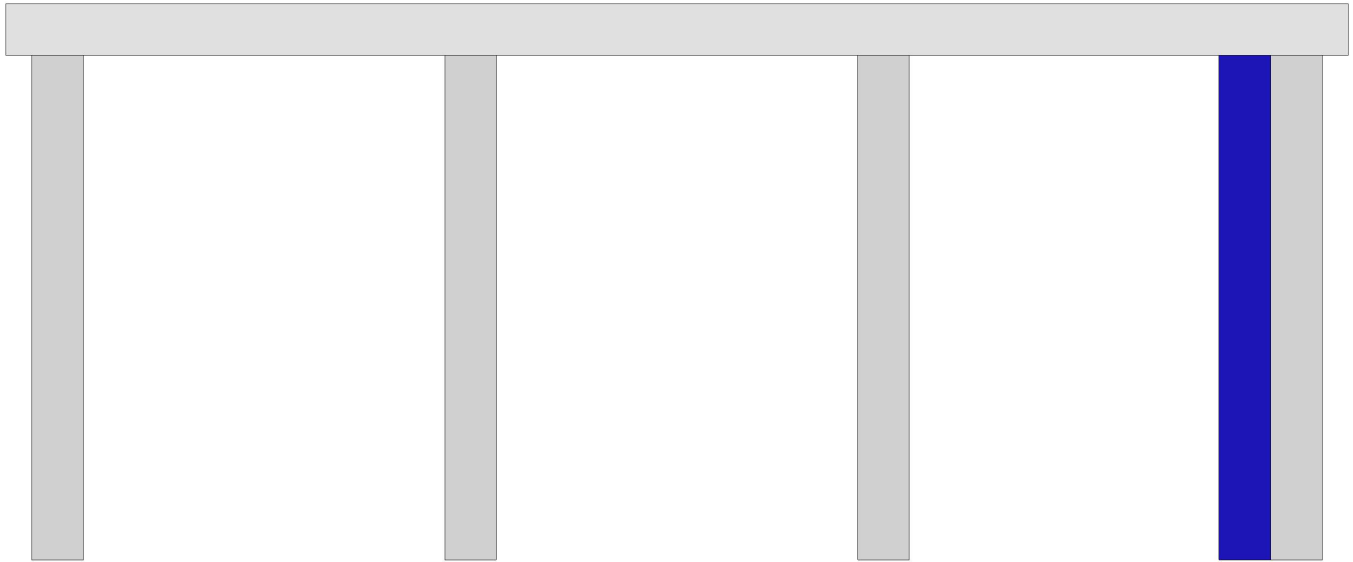
Bridge Inspection Field Sketch



Cap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.		Right Beam to End of Cap.			
26 ft.	1.000 ft.	1.000 ft.	1.000 ft.	1.000 ft.	.833 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		1 ft.			Vertical	Yes	No	No	No
2	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 2			Similar Bents:							

Title		Description	
END BENT 2		SUBSTRUCTURE	
Bridge No: 770228	Drawn By: dlp	Date: 04/14/2005	File Name: S0098000042

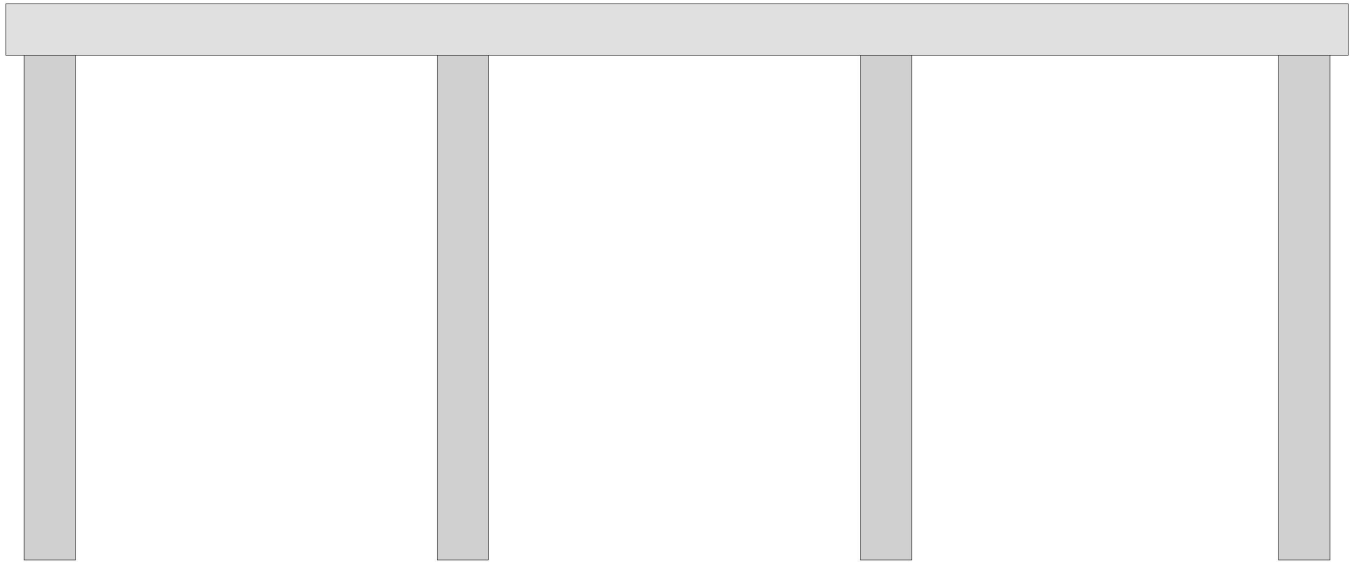
Bridge Inspection Field Sketch



Cap Information			Material							
Length 26 ft.	Width 1 ft.	Height 1.000 ft.	Left Overhang 1.000 ft.	Right Overhang 1 ft.	Left Beam to End of Cap. .833 ft.	Right Beam to End of Cap. .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		1 ft.			Vertical	Yes	No	No	No
2	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	7 ft.	1 ft.			Vertical	Yes	Yes	No	No
5	Timber	1 ft.	1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 1			Similar Bents:							

Title END BENT 1			Description SUBSTRUCTURE		
Bridge No: 770228	Drawn By: WRM	Date: 12/20/2013	File Name: S0174012848		

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.				
26.000 ft.	1.000 ft.	1.000 ft.	.850 ft.	.850 ft.	.830 ft.	.830 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	Yes	No	No	No
2	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8.2 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	8.1 ft.	1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 1			Similar Bents:							

Title
BENT 1

Description
SUBSTRUCTURE

Bridge No: 770228

Drawn By: WRM

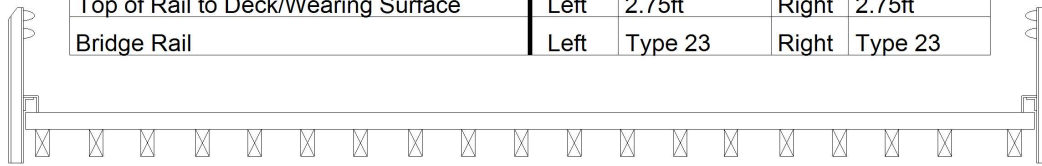
Date: 12/20/2013

File Name: S0174012849

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.				
26.000 ft.	1.000 ft.	1.000 ft.	.850 ft.	.850 ft.	.830 ft.	.830 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	Yes	No	No	No
2	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	8.3 ft.	1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 2 Similar Bents:										
Title BENT 2						Description SUBSTRUCTURE				
Bridge No: 770228		Drawn By: WRM				Date: 12/20/2013		File Name: S0174012850		

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.333ft	Between Rails	24.75ft
Clear Roadway	24ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left 0.75ft	Right 0.75ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left	Right
Top of Rail to Deck/Wearing Surface		Left 2.75ft	Right 2.75ft
Bridge Rail		Left Type 23	Right Type 23



Measurements for Span #	1		
Deck Thickness	0.42	Left Overhang	0.42
Top of Rail to Bottom of Beam	4.13	Right Overhang	0.42

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	ft	
2	Timber (Rectangular)	1.35ft	
3	Timber (Rectangular)	1.29ft	
4	Timber (Rectangular)	1.38ft	
5	Timber (Rectangular)	1.31ft	
6	Timber (Rectangular)	1.33ft	
7	Timber (Rectangular)	1.33ft	
8	Timber (Rectangular)	1.38ft	
9	Timber (Rectangular)	1.33ft	
10	Timber (Rectangular)	1.33ft	
11	Timber (Rectangular)	1.33ft	
12	Timber (Rectangular)	1.33ft	
13	Timber (Rectangular)	1.33ft	
14	Timber (Rectangular)	1.27ft	
15	Timber (Rectangular)	1.4ft	
16	Timber (Rectangular)	1.33ft	
17	Timber (Rectangular)	1.31ft	
18	Timber (Rectangular)	1.33ft	
19	Timber (Rectangular)	1.75ft	

Title
SPAN 1

Description
SUPERSTRUCTURE

Bridge No: 770228

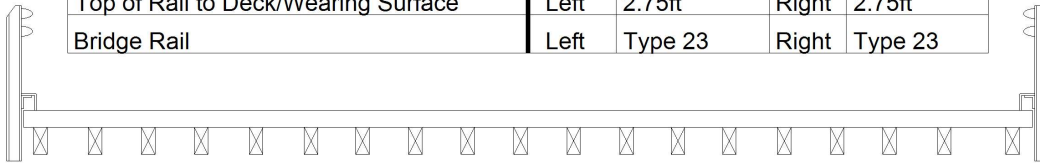
Drawn By: WRM

Date: 12/20/2013

File Name: S0174012851

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.333ft	Between Rails	24.75ft
Clear Roadway	24ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left 0.75ft	Right 0.75ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left	Right
Top of Rail to Deck/Wearing Surface		Left 2.75ft	Right 2.75ft
Bridge Rail		Left Type 23	Right Type 23



Measurements for Span #	3		
Deck Thickness	0.42	Left Overhang	0.42
Top of Rail to Bottom of Beam	4.13	Right Overhang	0.42

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	ft	
2	Timber (Rectangular)	1.38ft	
3	Timber (Rectangular)	1.33ft	
4	Timber (Rectangular)	1.33ft	
5	Timber (Rectangular)	1.38ft	
6	Timber (Rectangular)	1.38ft	
7	Timber (Rectangular)	1.29ft	
8	Timber (Rectangular)	1.33ft	
9	Timber (Rectangular)	1.31ft	
10	Timber (Rectangular)	1.33ft	
11	Timber (Rectangular)	1.33ft	
12	Timber (Rectangular)	1.33ft	
13	Timber (Rectangular)	1.29ft	
14	Timber (Rectangular)	1.29ft	
15	Timber (Rectangular)	1.38ft	
16	Timber (Rectangular)	1.33ft	
17	Timber (Rectangular)	1.31ft	
18	Timber (Rectangular)	1.38ft	
19	Timber (Rectangular)	1.71ft	

Title
SPAN 3

Description
SUPERSTRUCTURE

Bridge No: 770228

Drawn By: WRM

Date: 12/20/2013

File Name: S0174012852