



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **TEMPORARY REPAIRS: ENCASED PILES**

Structure Safety Report

Routine Element Inspection

COUNTY: ROBESON STRUCTURE NUMBER: 770172 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1164 MILE POST:

LOCATION: 0.2MI.N.US74

FEATURE INTERSECTED: BACK SWAMP

LATITUDE: 34° 36' 2.98" LONGITUDE: 79° 7' 56.15"

SUPERSTRUCTURE: PPC CHANNELS (STD BMD-13)

SUBSTRUCTURE: E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ 5"8 CTS.

SPANS: 1@20"7;1@20"1;1@20"7

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

PRESENT CONDITION: Fair INSPECTION DATE: 12/17/2014

POSTED SV: 39 POSTED TTST: 43

OTHER SIGNS PRESENT: 4 DELINEATORS



LOOKING NORTH (BACK SWAMP ROAD)

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 R.D. HEATH	SIGNATURE <i>R.D. Heath</i>	ASSISTED BY R.L. KISNER
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Span Element Report

Structure Number: 770172

Inspection Date: 12/17/2014

Span Number 1

Span Length 20.58 Feet

Number of Slabs/Channels: 10

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	530	530	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	210	210	0	0	0	0	3306
216		Timber Abutment	32	32	0	0	0	0	3346
228		Timber Pile	5	4	1	0	0	0	3344
233		Prestressed Concrete Pier Cap	26	22	4	0	0	4	3348
316		Other Bearings	20	20	0	0	0	0	3334
330		Metal Bridge Railing	42	42	0	0	0	0	3322
515	330	Steel Protective Coating	100	73	0	27	0	27	3342
510		Wearing Surface	524	484	0	40	0	40	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 20 Feet

Number of Slabs/Channels: 10

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	510	510	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	200	200	0	0	0	0	3306
228		Timber Pile	5	5	0	0	0	0	3344
233		Prestressed Concrete Pier Cap	26	22	4	0	0	4	3348
316		Other Bearings	20	20	0	0	0	0	3334
330		Metal Bridge Railing	40	40	0	0	0	0	3322
515	330	Steel Protective Coating	100	60	0	40	0	40	3342
510		Wearing Surface	509	488	0	21	0	21	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 3

Span Length 20.58 Feet

Number of Slabs/Channels: 10

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	530	530	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	210	209	0	1	0	1	3306
216		Timber Abutment	32	31	0	1	0	1	3346
228		Timber Pile	10	10	0	0	0	0	3344
233		Prestressed Concrete Pier Cap	52	43	8	1	0	9	3348
316		Other Bearings	20	20	0	0	0	0	3334
330		Metal Bridge Railing	42	42	0	0	0	0	3322
515	330	Steel Protective Coating	100	58	0	42	0	42	3342
510		Wearing Surface	524	483	10	31	0	41	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: 770172

Inspection Date: 12/17/2014

Structure Number: 770172

Inspection Date: 12/17/2014

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
☒ Bridge Rail	1	330	Metal Bridge Railing	21	21	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	50	44	0	6	0	6	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	21	21	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	50	29	0	21	0	21	3342	
☒ Wearing Surfaces		510	Wearing Surface	524	484	0	40	0	40	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	2	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	3	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	4	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	5	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	6	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	7	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	8	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	9	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested

Structure Number: 770172

Inspection Date: 12/17/2014

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
☒ Beam	9	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	10	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	10	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 770172

Inspection Date: 12/17/2014

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
☒ Bridge Rail	1	330	Metal Bridge Railing	20	20	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	50	30	0	20	0	20	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	20	20	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	50	30	0	20	0	20	3342	
☒ Wearing Surfaces		510	Wearing Surface	509	488	0	21	0	21	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	2	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	3	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	4	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	5	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	6	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	7	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	8	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	9	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested

Structure Number: 770172

Inspection Date: 12/17/2014

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
☒ Beam	9	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Beam	10	15	Prestressed Concrete Top Flange	51	51	0	0	0	0	3326	☐ Requested
☒ Beam	10	104	Prestressed Concrete Closed Web/Box C	20	20	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	51	51	0	0	0	0	3342	
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 770172

Inspection Date: 12/17/2014

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
☒ Bridge Rail	1	330	Metal Bridge Railing	21	21	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	50	29	0	21	0	21	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	21	21	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	50	29	0	21	0	21	3342	
☒ Wearing Surfaces		510	Wearing Surface	524	483	10	31	0	41	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	2	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	21	20	0	1	0	1	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	3	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	4	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	5	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	6	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	7	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	8	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	9	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested

Structure Number: 770172

Inspection Date: 12/17/2014

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
☒ Beam	9	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Beam	10	15	Prestressed Concrete Top Flange	53	53	0	0	0	0	3326	☐ Requested
☒ Beam	10	104	Prestressed Concrete Closed Web/Box C	21	21	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	53	53	0	0	0	0	3342	
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 770172

Inspection Date: 12/17/2014

Span Number 1

Span 1	Bridge Rail	1	Component Name:				Steel Rail					
Element: 330	Name	Metal Bridge Railing	Qty:	21	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

6 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span	1	Bridge Rail	2	Component Name:		Steel Rail							
Element:	330	Name	Metal Bridge Railing	Qty:	21	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:													

21 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span	1	Wearing Surfaces		Component Name:		Asphalt Wearing Surface							
Element:	510	Name	Wearing Surface	Qty:	524	Lvl 2:	0	Lvl 3	40	Lvl 4	0	Maint. Qty	40
Defect Description:													

25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE
TRANSVERSE CRACK OVER END BENT 1

2 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 2' LONG X 1/8" WIDE
LONGITUDINAL CRACK IN SOUTH BOUND LANE

13 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 10' X 1/8" LONGITUDINAL CRACK AND 3' X 1/8" TRANSVERSE CRACK IN NORTH BOUND LANE

Span Number 2

Span 2	Bridge Rail	1	Component Name:				Steel Rail					
Element: 330	Name	Metal Bridge Railing	Qty:	20	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

20 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2	Bridge Rail	2	Component Name:		Steel Rail							
Element: 330	Name	Metal Bridge Railing	Qty:	20	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

20 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2	Wearing Surfaces		Component Name:		Asphalt Wearing Surface							
Element: 510	Name	Wearing Surface	Qty:	509	Lvl 2:	0	Lvl 3	21	Lvl 4	0	Maint. Qty	21
Defect Description:												

21 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 21' LONG X 1/8" WIDE
LONGITUDINAL CRACK IN NORTH BOUND LANE

Span Number 3

Span 3	Bridge Rail	1	Component Name:		Steel Rail							
Element: 330	Name	Metal Bridge Railing	Qty:	21	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

21 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 3	Bridge Rail	2	Component Name:				Steel Rail					
Element: 330	Name	Metal Bridge Railing	Qty:	21	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

21 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 3	Wearing Surfaces			Component Name:		Asphalt Wearing Surface							
Element: 510	Name	Wearing Surface		Qty:	524	Lvl 2:	10	Lvl 3	31	Lvl 4	0	Maint. Qty	41
Defect Description:													

6 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 6' LONG X 3/16" WIDE
 LONGITUDINAL CRACK IN SOUTH BOUND LANE
 10 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. HAIRLINE X 10' LONG
 LONGITUDINAL CRACK IN NORTH BOUND LANE
 25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/4" WIDE
 TRANSVERSE CRACK OVER END BENT 2

Span	3	Beam	2	Component Name:	Prestressed Concrete Channel
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Element:	104	Name	Prestressed Concrete Closed V	Qty:	21	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	1
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Defect Description:

1 Feet of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review. SPALL 12" WIDE X 3" HIGH IN LEFT LEG AT 3' FROM END BENT 2 CAP

Substructure Detailed Element Quantities

Structure Number: 770172

Inspection Date: 12/17/2014

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
☒ Abutments	1	216	Timber Abutment	32	32	0	0	0	0	3346	☐ Requested
☒ Caps	1	233	Prestressed Concrete Pier Cap	26	22	4	0	0	4	3348	☐ 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
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	0	3344	☐ 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	233	Prestressed Concrete Pier Cap	26	22	4	0	0	4	3348	☐ 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
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	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	233	Prestressed Concrete Pier Cap	26	22	4	0	0	4	3348	☐ 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
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Structure Number: 770172

Inspection Date: 12/17/2014

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	32	31	0	1	0	1	3346	☐ Requested
☒ Caps	1	233	Prestressed Concrete Pier Cap	26	21	4	1	0	5	3348	☐ 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
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 770172

Inspection Date: 12/17/2014

End Bent 1

End Bent 1	Row 1	Caps	1							
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Element: 233 **Name** Prestressed Concrete Pier Cap **Qty:** 26 **Lvl 2:** 4 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 4

Defect Description:

2 Feet of Exposed Prestressing: Present without section loss. ON WEST END

2 Feet of Exposed Prestressing: Present without section loss. ON EAST END

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

Defect Description:

1 Each of Split/Delamination: Length less than the member depth or arrested with effective actions taken to mitigate.

DELAMINATED 32" HIGH X 8" WIDE NEAR TOP OF PILE

Bent 1	Row 1	Caps	1							
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Element: 233 **Name** Prestressed Concrete Pier Cap **Qty:** 26 **Lvl 2:** 4 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 4

Defect Description:

4 Feet of Exposed Prestressing: Present without section loss. EXPOSED CABLES ON BOTH ENDS OF CAP

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

Defect Description:

1 Feet of Split/Delamination (Timber): Length equal to or greater than the member depth but does not require structural review.

TURNPILE AT NORTHEAST CORNER DELAMINATED 3' HIGH X 14" WIDE

End Bent 2	Row 1	Caps	1							
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Element: 233 **Name** Prestressed Concrete Pier Cap **Qty:** 26 **Lvl 2:** 4 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 5

Defect Description:

1 Feet of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review. SPALL 8" WIDE X 3" HIGH X 3/4" DEEP UNDER CHANNEL 10 RIGHT LEG

4 Feet of Exposed Prestressing: Present without section loss. CABLES EXPOSED ON BOTH ENDS OF CAP

Bent 2	Row 1	Caps	1							
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Element: 233 **Name** Prestressed Concrete Pier Cap **Qty:** 26 **Lvl 2:** 4 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 4

Defect Description:

4 Feet of Exposed Prestressing: Present without section loss. CABLE ENDS EXPOSED ON BOTH ENDS OF CAP

National Bridge and NC Inspection Items

Structure Number: 770172

Inspection Date: 12/17/2014

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	7
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	7
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	1554	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	G	0	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	10	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	15		

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	8
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	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 770172

Inspection Date: 12/17/2014

Item	Substructure - Item 60	Grade	5	Maint Code		Qty.	0
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Details	PILES 1 AND 4 ENCASED (TEMPORARY REPAIRS) AT BENT 2
	PILES 1, 2, AND 5 ENCASED (TEMPORARY REPAIRS) AT BENT 1

Item	Channel and Channel Protection - Item 61	Grade	7	Maint Code		Qty.	0
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Details	THERE IS AN OLD TIMBER BULKHEAD IN SPAN 3
	THERE ARE 5 CUT OFF PILES IN SPAN 1 WATERWAY

Item	Other Equipment Used	Grade	Y	Maint Code		Qty.	0
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Details	BOOTS
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Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	1554
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Details	DEBRIS ALONG LEFT CURB
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Item	Drift	Grade	G	Maint Code	3366	Qty.	10
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Details	DRIFT COLLECTING AT BENT 1 PILES 1 AND 2 (10 HRS.)
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DEBRIS ALONG LEFT CURB



Span 1 Wearing Surface: 25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE TRANSVERSE CRACK OVER END BENT 1



Span 1 Wearing Surface: 2 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 2' LONG X 1/8" WIDE LONGITUDINAL CRACK IN SOUTH BOUND LANE



Span 1 Left Bridge Rail: 6 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.



Span 1 Wearing Surface: 13 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 10' X 1/8" LONGITUDINAL CRACK AND 3' X 1/8" TRANSVERSE CRACK IN NORTH BOUND LANE



Span 1 Right Bridge Rail: 21 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.



Span 2 Wearing Surface: 21 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 21' LONG X 1/8" WIDE LONGITUDINAL CRACK IN NORTH BOUND LANE



Span 2 Right Bridge Rail: 20 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.



Span 2 Left Bridge Rail: 20 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.



Span 3 Wearing Surface: 6 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 6' LONG X 3/16" WIDE LONGITUDINAL CRACK IN SOUTH BOUND LANE



Span 3 Wearing Surface: 10 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
HAIRLINE X 10' LONG LONGITUDINAL CRACK IN NORTH BOUND LANE



Span 3 Wearing Surface: 25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/4" WIDE TRANSVERSE CRACK OVER END BENT 2



PILES 1 AND 4 ENCASED (TEMPORARY REPAIRS) AT BENT 2



THERE IS AN OLD TIMBER BULKHEAD IN SPAN 3



Span 3 Channel/Slab 2: 1 Feet of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review. SPALL 12" WIDE X 3" HIGH IN LEFT LEG AT 3' FROM END BENT 2 CAP



End Bent 2 Cap : 1 Feet of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review. SPALL 8" WIDE X 3" HIGH X 3/4" DEEP UNDER CHANNEL 10 RIGHT LEG



End Bent 2 Abutment/Backwall : 1 Feet of Split/Delamination (Timber): Length equal to or greater than the member depth but does not require structural review. TURNPILE AT NORTHEAST CORNER DELAMINATED 3' HIGH X 14" WIDE



PILES 1, 2, AND 5 ENCASED (TEMPORARY REPAIRS) AT BENT 1



DRIFT COLLECTING AT BENT 1 PILES 1 AND 2 (10 HRS.)



THERE ARE 5 CUT OFF PILES IN SPAN 1 WATERWAY



End Bent 1 Pile 5: 1 Each of Split/Delamination: Length less than the member depth or arrested with effective actions taken to mitigate. DELAMINATED 32" HIGH X 8" WIDE NEAR TOP OF PILE



End Bent 1 Cap : 2 Feet of Exposed Prestressing: Present without section loss. ON WEST END



LOOKING NORTH (BACK SWAMP ROAD)



LOOKING NORTH, POSTING



EAST PROFILE



WEST PROFILE



LOOKING NORTH, OFF BRIDGE



LOOKING SOUTH, OFF BRIDGE



UPSTREAM WEST



DOWNSTREAM EAST



LOOKING SOUTH



LOOKING SOUTH, POSTING



NEW WINGWALL AND BULKHEAD AT END BENT 2



WEST END OF BENT 2 CAP



BENT 2



END BENT 2



UPSTREAM WEST, THRU SPAN 2



SPAN 2 SUPERSTRUCTURE, ALL SPANS ARE SIMILAR



BENT 1



DOWNSTREAM EAST, THRU SPAN 2



NEW WINGWALL AND BULKHEAD AT END BENT 1



END BENT 1

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

Run Date: 03/31/2015

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770172		SUFFICIENCY RATING =		27.24	
(8) STRUCTURE NUMBER(FEDERAL)		000000001550172		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31011640					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	155	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED -	BACK SWAMP			(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED	SR1164			(26) FUNCTIONAL CLASS -	Local	09	
(9) LOCATION	0.2MI.N.US74			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT	34° 36' 2.98"	(17)LONG	79° 7' 56.15"	(102)DIRECTION OF TRAFFIC -	2-way Traffic	2	
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions	T	
(99)BORDER BRIDGE STRUCTURE NO				(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	
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE MAIN:	Prestressed Concrete			(58) DECK		7	
TYPE -	Channel Beam	CODE	522	(59) SUPERSTRUCTURE		7	
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE		4	
TYPE -		CODE	000	(61) CHANNEL & CHANNEL PROTECTION		7	
(45) NUMBER OF SPANS IN MAIN UNIT			3	(62) CULVERTS		N	
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE -	1	CODE		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	HS 15	3	
(A) TYPE OF WEARING SURFACE -		CODE		(63) OPERATING RATING METHOD -	Load Factor	1	
(B) TYPE OF MEMBRANE -		CODE		(64) OPERATING RATING -	HS-1	1	
(C) TYPE OF DECK PROTECTION -		CODE		(65) INVENTORY RATING METHOD -	Load Factor	1	
				(66) INVENTORY RATING -	HS-1	1	
				(70) BRIDGE POSTING -	Posting Required	4	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1967	(67) STRUCTURAL EVALUATION		3	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		4	
(42) TYPE OF SERVICE : ON -	Highway			(69) UNDERCLEARANCES,VERTI & HORIZ		N	
UNDER -	Waterway	CODE	15	(71) WATERWAY ADEQUACY		7	
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE	0	(72) APPROACH ROADWAY ALIGNMENT		8	
(29) AVERAGE DAILY TRAFFIC			670	(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT	2013	(109) TRUCK ADT PCT	6%	(113)SCOUR CRITICAL BRIDGES		U	
(19) BYPASS OR DETOUR LENGTH			5 MI				
GEOMETRIC DATA				PROPOSED IMPROVEMENTS			
(48) LENGTH OF MAXIMUM SPAN			19 FT	(75) TYPE OF WORK -		CODE	
(49) STRUCTURE LENGTH			61 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(50)CURB OR SIDEWALK: LEFT	.5 FT	RIGHT	.5 FT	(94) BRIDGE IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			23.917 FT	(95) ROADWAY IMPROVEMENT COST			
(52) DECK WIDTH OUT TO OUT			25.417 FT	(96) TOTAL PROJECT COST			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			24 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(33) BRIDGE MEDIAN -	No Median	CODE	0	(114)FUTURE ADT	1340	(115) YEAR FUTURE ADT	2025
(34) SKEW	0°	(35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	INSPECTIONS			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			23.917 FT	(90) INSPECTION DATE		12/17/2014	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT	A) FRACTURE CRIT DETAIL -	NO	A)	
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT	B) UNDERWATER INSP -	NO	B)	
(56) MIN LAT UNDERCLEAR LT REF -			000 FT	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: 03/31/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770172	61	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1164	BACK SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.2MI.N.US74		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	670 2013	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1967	SHC	8037		HS 15

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		4		FT

SUPERSTRUCTURE :	PPC CHANNELS (STD BMD-13)
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SUBSTRUCTURE :	E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ 5'8 CTS.
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SPANS :	1@20'7;1@20'1;1@20'7
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BEAMS OR GIRDERS :	10 PRESTRESSED CONCRETE CHANNEL SECTIONS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
PPCCH/2 AWS		25.417 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
23.917 FT	24.917 FT	LT .5 FT RT .5 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	LGW	DATE	
HS-1	HS-1	Pile2	SV 41			03/30/2015	

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

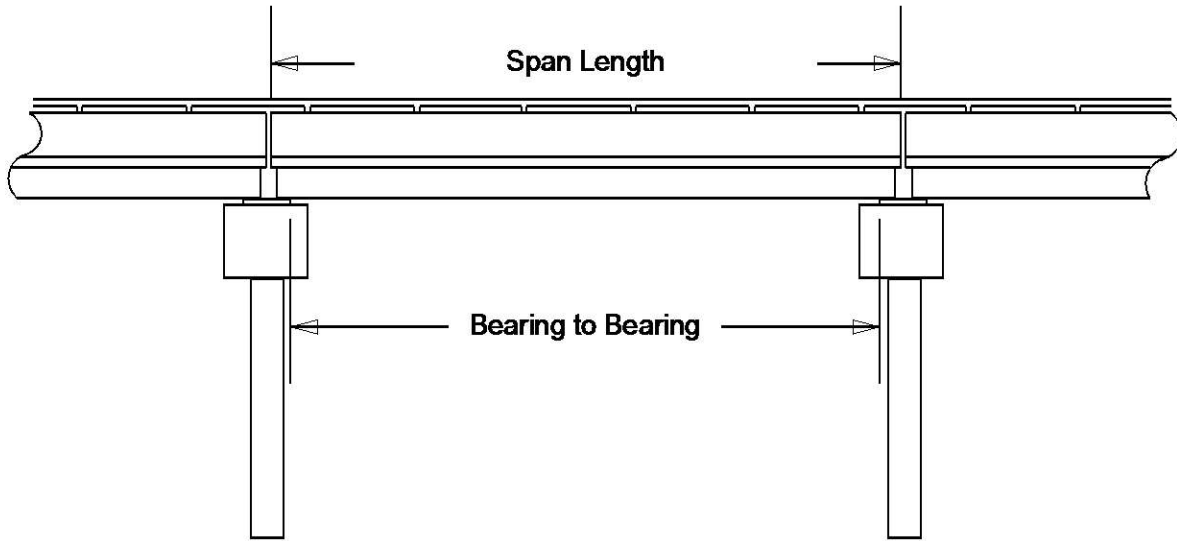
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: ROBESON Structure No: 770172 Date: Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	20.583 FT.	19.25 FT.	NBIS 58.0 FT.
2	20.083 FT.	19.25 FT.	
3	20.583 FT.	19.25 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770172 County: ROBESON Date: _____ By: RDH

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	2.8	FILLFACE/ BULKHEAD			
1	4.3	Top of Cap			
1.1	12.2	GROUND AT CAP	1.1	10.5	GROUND AT CAP
3	13	WSWE (EAST)			
10	15				
20.2	15.5	BENT 1	20.2	14	BENT 1
28	15.4				
39	13	WSWE			
39.2	12.6				
40.2	12.2	BENT 2	40.2	14.9	BENT 2
53	10.3				
58	7	GROUND AT CAP	58	7.6	GROUND AT CAP
59	4.3	Top of Cap			
60.5	2.8	FILLFACE/ BULKHEAD			

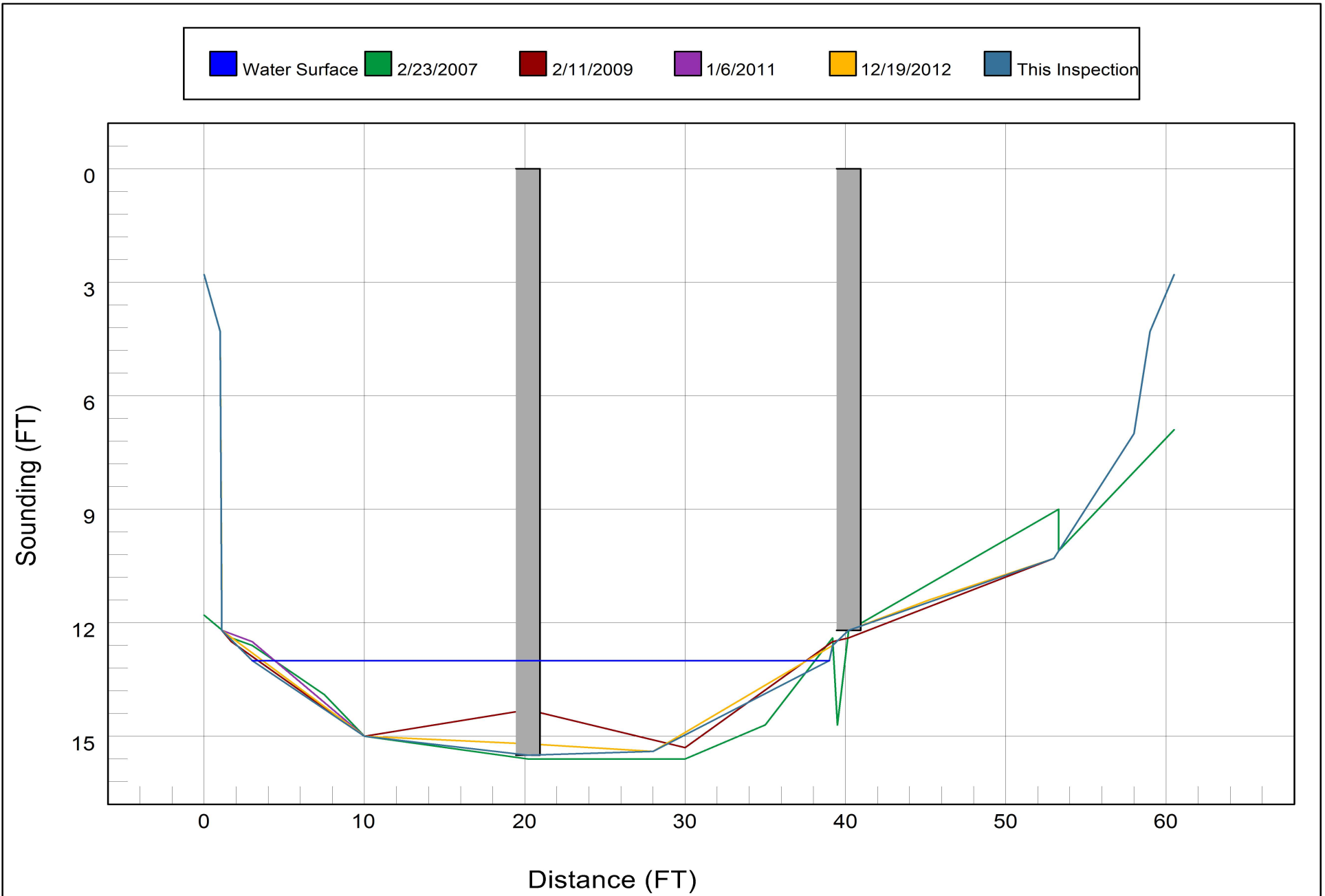
Bridge: 770172

County ROBESON

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1164 (BACK SWAMP ROAD)



Roadway	20.083ft Wide	2 Paved Lanes	Looking North
Left Shoulder	1.833ft Wide	1.833ft Paved	
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RLK 1/6/11

MEASUREMENTS VERIFIED BY RLK 12/19/12

MEASUREMENTS VERIFIED BY RLK 12/17/14

Title

APPROACH ROADWAY

Description

LOOKING NORTH

Bridge No: 770172

Drawn By: RLK

Date: 01/06/2011

File Name: S0334000157

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.417ft	Wearing Surface	.167ft
Between Rails	24.917ft	Median Width	
Curb Height	.625ft	Median Height	
Top Rail to Deck/Wearing Surface	2.67ft	Left Guardrail Width	
Clear Roadway	23.917ft	Right Guardrail Width	
Left Bridge Rail	Type 23	Right Bridge Rail	Type 23

Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	.417	Left Overhang	1.271
Top of Rail to Bottom of Beam	4.25	Right Overhang	1.271

No. of Channels	10
Leg Width	.209ft
Leg Height	1.0ft
Leg to Leg (Centers)	1.792ft
Channel Width	2.542ft
Channel Height	1.42ft
Comments	

MEASUREMENTS VERIFIED BY RLK 1/6/11

MEASUREMENTS VERIFIED BY RLK 12/19/12

MEASUREMENTS VERIFIED BY RLK 12/17/14

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

Bridge No: 770172

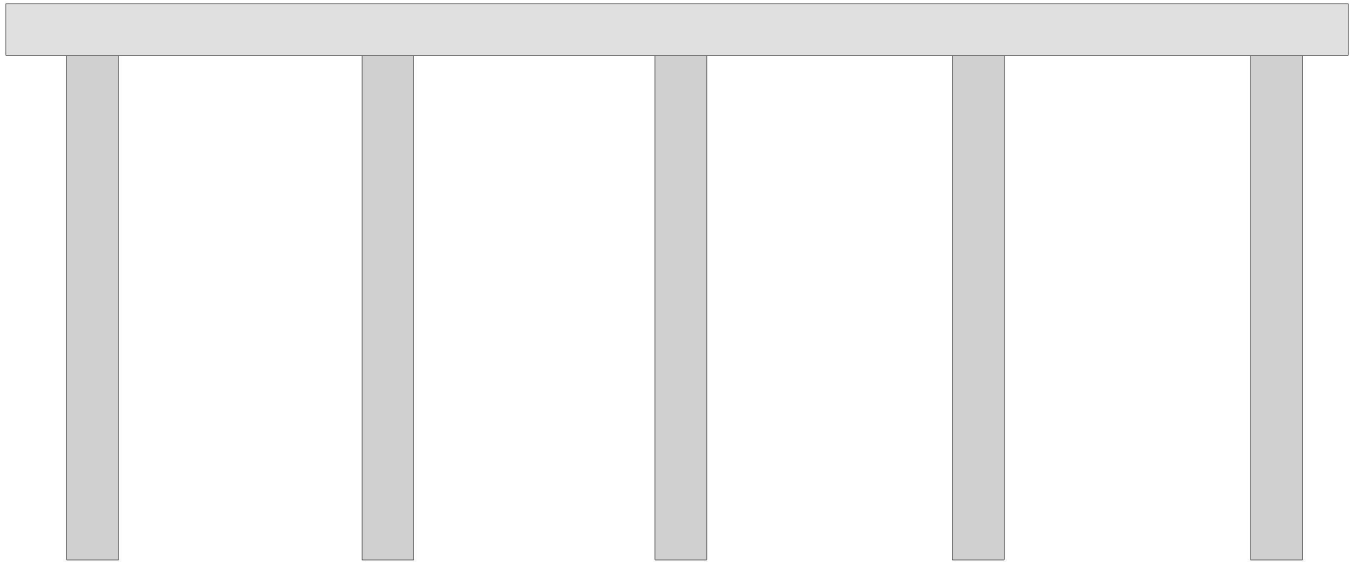
Drawn By: HWH

Date: 02/23/2007

File Name: S0334000158

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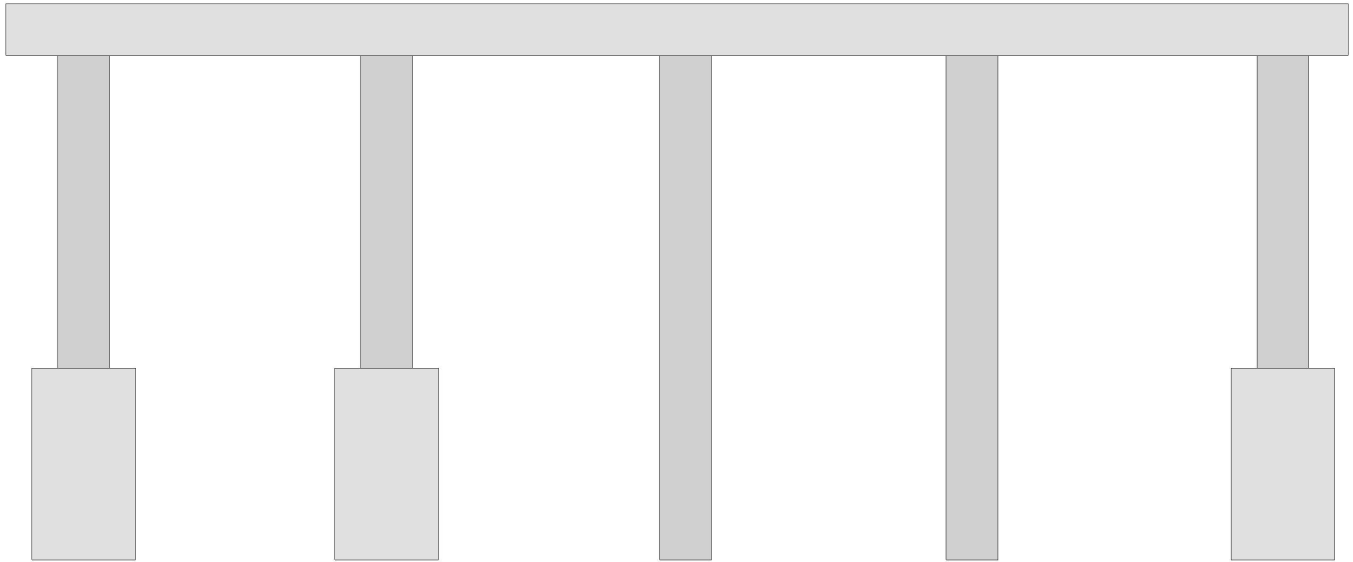
Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.91 ft.	1.333 ft.	1.0 ft.	1.67 ft.	1.38 ft.	1.62 ft.	1.61 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	5.70 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	5.66 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	5.74 ft.	1 ft.			Vertical	Yes	No	No	No
5	Timber	5.76 ft.	1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 2			Similar Bents:							

Title			Description		
SUBSTRUCTURE 3			END BENT 2		
Bridge No: 770172	Drawn By: RLK	Date: 12/17/2014	File Name: S0334000160		

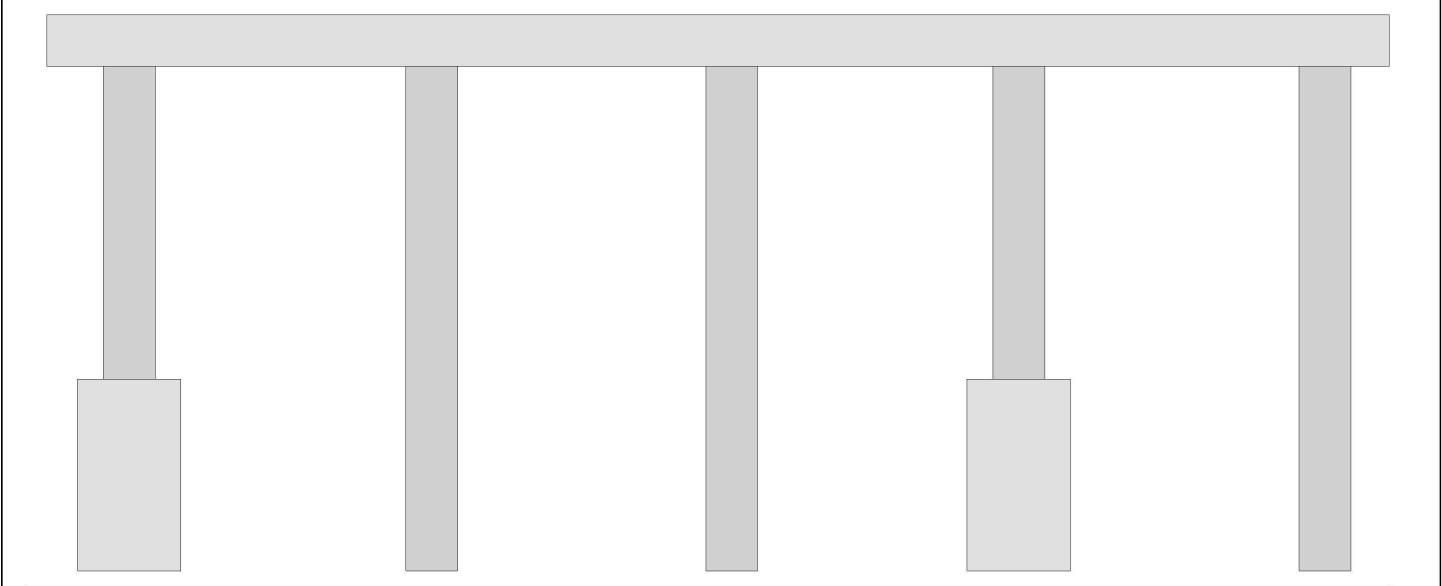
Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.91 ft.	1.333 ft.	1.0 ft.	1.50 ft.	1.30 ft.	1.62 ft.	1.61 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	Yes
2	Timber	5.85 ft.	1 ft.			Vertical	Yes	No	No	Yes
3	Timber	5.77 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	5.53 ft.	1 ft.			Vertical	Yes	No	No	No
5	Timber	6 ft.	1 ft.			Vertical	Yes	No	No	Yes
Bent/Abutment #: 1			Similar Bents: NONE							

Title		Description	
SUBSTRUCTURE 1		BENT 1	
Bridge No: 770172	Drawn By: RLK	Date: 12/17/2014	File Name: S0334000161

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.			Right Beam to End of Cap.		
25.95 ft.	1.333 ft.	1.0 ft.	1.59 ft.	1.27 ft.	1.64 ft.			1.65 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	Yes
2	Timber	5.85 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	5.80 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	5.55 ft.	1 ft.			Vertical	Yes	No	No	Yes
5	Timber	5.92 ft.	1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 2 Similar Bents: NONE										

Title		Description	
SUBSTRUCTURE 2		BENT 2	
Bridge No: 770172	Drawn By: RLK	Date: 12/17/2014	File Name: S0334000162