



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

TEMPORARY REPAIRS : ENCASED PILES PM
ISSUED ON BOTH ABUTMENTS

Structure Safety Report

Routine Element Inspection

COUNTY: ROBESON STRUCTURE NUMBER: 770135 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR2519 MILE POST: _____

LOCATION: 0.5 MI. W. JCT. SR2455

FEATURE INTERSECTED: AARON SWAMP

LATITUDE: 34° 33' 18.9" LONGITUDE: 79° 12' 25.74"

SUPERSTRUCTURE: PPC CHANNELS (STD.BMD-13)

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

SPANS: 2@30"5

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

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

POSTED SV: 19 POSTED TTST: 22

OTHER SIGNS PRESENT: 4 DELINEATORS



LOOKING EAST (SOUTH ROBESON 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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BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: 770135

COUNTY: ROBESON

DATE: 1-15-13

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT
THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE
TO KEEP THE BRIDGE OPEN :

	CODE	BY
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	5	TSE 1/16/13
S I & A ITEM 64 OPERATING RATING		
HS 01	BY: ADD	
S I & A ITEM 66 - INVENTORY RATING		
HS 01	BY: ADD	

COMMENTS

Pile 3 @ EBT. 2 Encased with Concrete.

Temporary Repair

NOT

TEMP

TMS

04/04/15

Span Element Report

Structure Number: 770135

Inspection Date: 12/17/2014

Span Number 1

Span Length 30.41 Feet

Number of Beams/Girders: 0

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	784	784	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	248	247	1	0	0	1	3306
216		Timber Abutment	32	16	1	15	0	1	3346
228		Timber Pile	5	3	2	0	0	0	3344
233		Prestressed Concrete Pier Cap	26	26	0	0	0	0	3348
316		Other Bearings	16	16	0	0	0	0	3334
330		Metal Bridge Railing	62	62	0	0	0	0	3322
515	330	Steel Protective Coating	150	104	15	31	0	46	3342
510		Wearing Surface	776	647	0	129	0	129	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 30.42 Feet

Number of Slabs/Channels: 8

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	784	784	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	248	248	0	0	0	0	3306
216		Timber Abutment	32	21	2	9	0	3	3346
228		Timber Pile	10	6	3	1	0	3	3344
233		Prestressed Concrete Pier Cap	53	52	0	1	0	1	3348
316		Other Bearings	16	16	0	0	0	0	3334
330		Metal Bridge Railing	62	62	0	0	0	0	3322
515	330	Steel Protective Coating	150	90	0	60	0	60	3342
510		Wearing Surface	776	661	0	115	0	115	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: 770135

Inspection Date: 12/17/2014

Structure Number: 770135

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	31	31	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	44	0	31	0	31	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	31	31	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	60	15	0	0	15	3342	
☒ Wearing Surfaces		510	Wearing Surface	776	647	0	129	0	129	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	2	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	3	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	4	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	5	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	6	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	7	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	8	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	31	30	1	0	0	1	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	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

Structure Number: 770135

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
☐ 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

Structure Number: 770135
Span Number 2

Inspection Date: 12/17/2014

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	31	31	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	45	0	30	0	30	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	31	31	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	45	0	30	0	30	3342	
☒ Wearing Surfaces		510	Wearing Surface	776	661	0	115	0	115	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	2	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	3	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	4	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	5	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	6	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	7	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	0	0	0	0	3342	
☐ Beam	8	15	Prestressed Concrete Top Flange	98	98	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	31	31	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	98	98	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

Structure Number: 770135

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
☐ 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

Superstructure Element Defect Descriptions

Structure Number: 770135

Inspection Date: 12/17/2014

Span Number 1

Span	1	Bridge Rail	1	Component Name:		Steel Rail							
Element:	330	Name	Metal Bridge Railing	Qty:	31	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:													

75 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats. PAINT PEELING IN RAIL

Span	1	Bridge Rail	2	Component Name:			Steel Rail						
Element:	330	Name	Metal Bridge Railing	Qty:	31	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:													

15 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span	1	Wearing Surfaces			Component Name:		Asphalt Wearing Surface						
Element:	510	Name	Wearing Surface	Qty:	776	Lvl 2:	0	Lvl 3	129	Lvl 4	0	Maint. Qty	129
Defect Description:													

24 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 IN ASPHALT WEARING SURFACE OVER END BENT 1 WITH UP TO 1/2" SETTLEMENT
80 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. FOUR 20' LONG X 1/16" WIDE LONGITUDINAL CRACKS, 3 IN WEST BOUND LANE AND 1 IN EAST BOUND LANE AT CENTERLINE
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 IN ASPHALT WEARING SURFACE OVER BENT 1

Span	1	Beam	8	Component Name:		Prestressed Concrete Channel							
Element:	104	Name	Prestressed Concrete Closed V	Qty:	31	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

1 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SPALL 6" HIGH X 1" TO 8" WIDE X 3/4" DEEP AT BENT 1 END ON EXTERIOR FACE

Span Number 2

Span	2	Bridge Rail	1	Component Name:				Steel Rail					
Element:	330	Name	Metal Bridge Railing	Qty:	31	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:													

30 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:	31	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:													

30 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:	776	Lvl 2:	0	Lvl 3	115	Lvl 4	0	Maint. Qty	115
Defect Description:													

60 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. TWO FULL SPAN LENGTH X 1/8" WIDE LONGITUDINAL CRACKS IN WEST BOUND LANE
30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE X 30' LONG LONGITUDINAL CRACK IN EAST BOUND LANE
25 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE TRANSVERSE CRACK WITH 1/2" SETTLEMENT OVER END BENT 2

Substructure Detailed Element Quantities

Structure Number: 770135

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	16	1	15	0	1	3346	☐ Requested
☒ Caps	1	233	Prestressed Concrete Pier Cap	26	26	0	0	0	0	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	0	1	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	27	27	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	216	Timber Abutment	32	21	2	9	0	3	3346	☐ Requested
☒ Caps	1	233	Prestressed Concrete Pier Cap	26	25	0	1	0	1	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	0	1	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: 770135

Inspection Date: 12/17/2014

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 32 Lvl 2: 1 Lvl 3: 15 Lvl 4: 0 Maint. Qty: 1

Defect Description:

1 Feet of Decay/Section Loss: Affects less than 10% of the member section BULKHEAD CLEAT DECAYED AT SOUTHWEST CORNER

15 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUTMENT 1 TOP BOARD DECAYED WITH EXPOSED FILL FROM BETWEEN PILES 1 AND 2 TO NORTH END (PM ISSUED)

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: 0

Defect Description:

1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. VERTICAL CHECK 3' HIGH X 1/8" WIDE X 3/4" DEEP

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 Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. 3' HIGH X 1/4" WIDE X 1 1/2" DEEP VERTICAL CHECK

End Bent 2	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 32 Lvl 2: 2 Lvl 3: 9 Lvl 4: 0 Maint. Qty: 3

Defect Description:

4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. DECAY WITH EXPOSED FILL (PM ISSUED)

1 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUTMENT CLEAT DECAYED AT NORTHEAST CORNER

4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. DECAYED WITH FILL LEAKAGE AT SOUTHEAST CORNER (PM ISSUED)

2 Feet of Decay/Section Loss: Affects less than 10% of the member section SURFACE DECAY BETWEEN PILES 4 AND 5

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

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 4" HIGH X 1 1/2" DEEP UNDER CHANNEL 8 LEFT LEG

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: 0

Defect Description:

1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAYED 14" HIGH X 5" WIDE X 1" DEEP

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:

1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAY 12" HIGH X 8" WIDE X 3" DEEP ON NORTH FACE

Bent 1	Row 1	Piles and	3
--------	-------	-----------	---

Structure Number: 770135

Inspection Date: 12/17/2014

Columns												
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:												

1 Each of Decay/Section Loss: Affects less than 10% of the member section PILE 3 DECAYED 2' H X 6" W X 2" D ON NORTH FACE

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

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. DELAMINATED 22" HIGH X 14" WIDE AND DECAYED 8" HIGH X 6" WIDE X 2" DEEP ON SOUTH FACE NEAR WATERLINE

National Bridge and NC Inspection Items

Structure Number: 770135

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	P	1551	3376
Drainage System	G, F, P, or C	P	116	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	F	5	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	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	Y
Inspection Time	Hours	10
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 770135

Inspection Date: 12/17/2014

Item	Substructure - Item 60	Grade	5	Maint Code	Qty.	0
Details	END BENT 2 PILE 3 ENCASED (TEMPORARY REPAIR)					
Item	Approach Roadway Alignment - Item 72	Grade	8	Maint Code	Qty.	0
Details	SOUTHEAST CORNER RIGHT APPROACH SHOULDER HAS SETTLEMENT 1' DEEP X 1' WIDE X 2' LONG (PM ISSUED)					
Item	Priority Maintenance Issued	Grade	Y	Maint Code	Qty.	0
Details	PM ISSUED ON BOTH TIMBER ABUTMENTS WITH FILL LEAKAGE AND SOUTHEAST CORNER APPROACH SHOULDER SETTLED, DUE TO FILL LEAKAGE					
Item	Other Equipment Used	Grade	Y	Maint Code	Qty.	0
Details	BOOTS					
Item	Deck Debris	Grade	P	Maint Code	3376	Qty. 1551
Details	DEBRIS AND VEGETATION ALONG LEFT CURB					
	DEBRIS AND VEGETATION ALONG RIGHT CURB					
Item	Drainage System	Grade	P	Maint Code	3332	Qty. 116
Details	RIGHT SIDE DECK DRAINS BLOCKED BY DEBRIS					
	LEFT SIDE DECK DRAINS BLOCKED BY DEBRIS					
Item	Wingwalls	Grade	F	Maint Code	3350	Qty. 5
Details	NORTHEAST CORNER TOP WINGWALL BOARD DECAYED 2'					
	SOUTHWEST CORNER TOP WINGWALL BOARD DECAYED 2"					
	NORTHWEST CORNER TOP WINGWALL BOARD DECAYED 1'					



Span 1 Wearing Surface: 24 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 IN ASPHALT WEARING SURFACE OVER END BENT 1



DEBRIS AND VEGETATION ALONG LEFT CURB



DEBRIS AND VEGETATION ALONG RIGHT CURB



Span 1 Right Bridge Rail: 15 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.



RIGHT SIDE DECK DRAINS BLOCKED BY DEBRIS



LEFT SIDE DECK DRAINS BLOCKED BY DEBRIS



Span 1 Wearing Surface: 80 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. FOUR 20' LONG X 1/16" WIDE LONGITUDINAL CRACKS, 3 IN WEST BOUND LANE AND 1 IN EAST BOUND LANE AT CENTERLINE



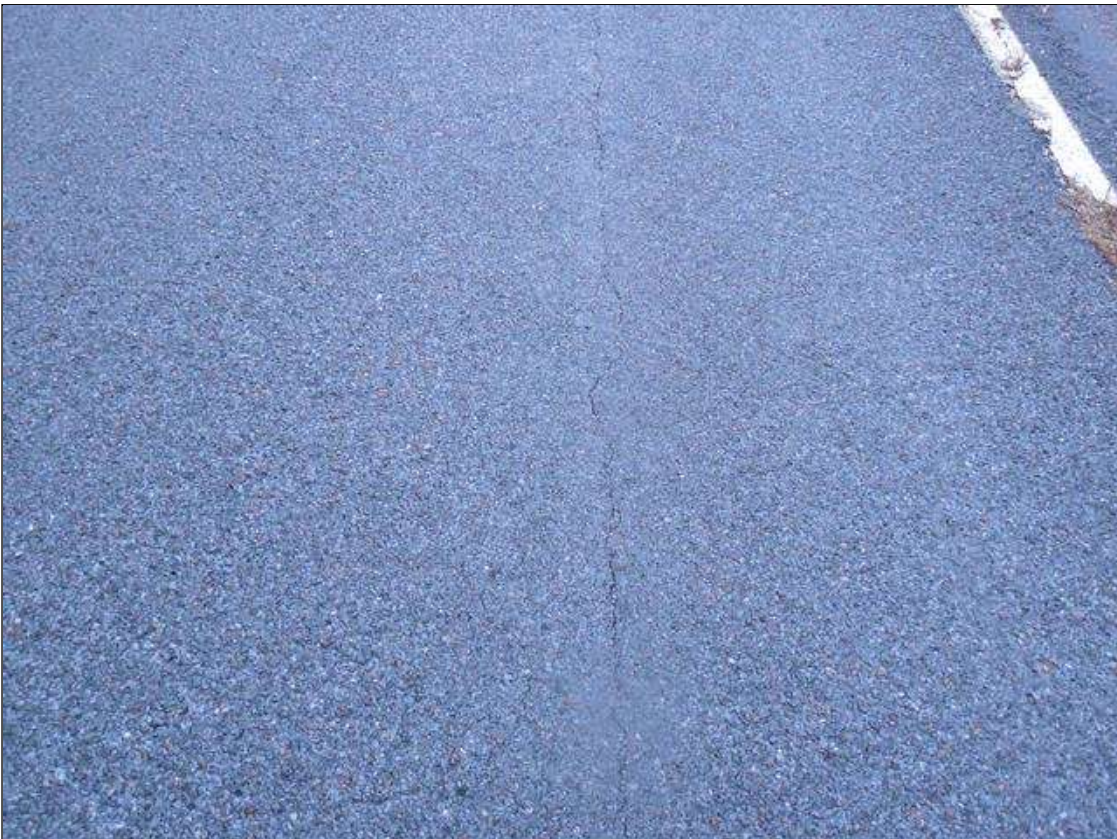
Span 1 Left Bridge Rail: 75 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats. PAINT PEELING IN RAIL



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 IN ASPHALT WEARING SURFACE OVER BENT 1



Span 2 Wearing Surface: 60 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. TWO FULL SPAN LENGTH X 1/8" WIDE LONGITUDINAL CRACKS IN WEST BOUND LANE



Span 2 Wearing Surface: 30 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" WIDE X 30' LONG LONGITUDINAL CRACK IN EAST BOUND LANE



Span 2 Right Bridge Rail: 30 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.



Span 2 Left Bridge Rail: 30 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.



Span 2 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 WITH 1/2" SETTLEMENT OVER END BENT 2



SOUTHEAST CORNER RIGHT APPROACH SHOULDER HAS SETTLEMENT 1' DEEP X 1' WIDE X 2' LONG (PM ISSUED)



NORTHEAST CORNER TOP WINGWALL BOARD DECAYED 2'



End Bent 2 Abutment/Backwall : 4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. DECAY WITH EXPOSED FILL (PM ISSUED)



End Bent 2 Abutment/Backwall : 1 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUTMENT CLEAT DECAYED AT NORTHEAST CORNER



END BENT 2 PILE 3 ENCASED (TEMPORARY REPAIR)



End Bent 2 Abutment/Backwall : 4 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. DECAYED WITH FILL LEAKAGE AT SOUTHEAST CORNER (PM ISSUED)



Bent 1 Pile 3: 1 Each of Decay/Section Loss: Affects less than 10% of the member section PILE 3 DECAYED 2' H X 6" W X 2" D ON NORTH FACE



Bent 1 Pile 1: 1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAY 12" HIGH X 8" WIDE X 3" DEEP ON NORTH FACE



Bent 1 Pile 4: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. DELAMINATED 22" HIGH X 14" WIDE AND DECAYED 8" HIGH X 6" WIDE X 2" DEEP ON SOUTH FACE NEAR WATERLINE



End Bent 2 Pile 4: 1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAYED 14" HIGH X 5" WIDE X 1" DEEP



End Bent 2 Abutment/Backwall : 2 Feet of Decay/Section Loss: Affects less than 10% of the member section
SURFACE DECAY BETWEEN PILES 4 AND 5



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 4" HIGH X 1 1/2" DEEP UNDER CHANNEL 8 LEFT LEG



Span 1 Channel/Slab 8: 1 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SPALL 6" HIGH X 1" TO 8" WIDE X 3/4" DEEP AT BENT 1 END ON EXTERIOR FACE



SOUTHWEST CORNER TOP WINGWALL BOARD DECAYED 2"



End Bent 1 Abutment/Backwall : 1 Feet of Decay/Section Loss: Affects less than 10% of the member section
BULKHEAD CLEAT DECAYED AT SOUTHWEST CORNER



End Bent 1 Pile 5: 1 Each of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in the tension zone. 3' HIGH X 1/4" WIDE X 1 1/2" DEEP VERTICAL CHECK



End Bent 1 Pile 4: 1 Each of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in the tension zone. VERTICAL CHECK 3' HIGH X 1/8" WIDE X 3/4" DEEP



End Bent 1 Abutment/Backwall : 15 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. ABUTMENT 1 TOP BOARD DECAYED WITH EXPOSED FILL FROM BETWEEN PILES 1 AND 2 TO NORTH END (PM ISSUED)



NORTHWEST CORNER TOP WINGWALL BOARD DECAYED 1'



LOOKING EAST (SOUTH ROBESON ROAD)



LOOKING EAST, POSTING



LOOKING EAST, OFF BRIDGE



LOOKING WEST, OFF BRIDGE



UPSTREAM NORTH



DOWNSTREAM SOUTH



LOOKING WEST



LOOKING WEST, POSTING



NORTH PROFILE



END BENT 2



BENT 1, SPAN 2 SIDE



SPAN 2 SUPERSTRUCTURE, SPAN 1 SIMILAR



UPSTREAM NORTH, THRU SPAN 2



DOWNSTREAM SOUTH, THRU SPAN 2



SOUTH END OF BENT 1 CAP



SOUTH PROFILE

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

Run Date: 03/26/2015

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770135		SUFFICIENCY RATING =		27.98	
(8) STRUCTURE NUMBER(FEDERAL)		000000001550135		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31025190					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION			CODE
(3) COUNTY CODE 155 (4) PLACE CODE		0		(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - AARON SWAMP				(104)HIGHWAY SYSTEM Is not on NHS			0
(7) FACILITY CARRIED SR2519				(26) FUNCTIONAL CLASS - Minor Collector			08
(9) LOCATION 0.5 MI. W. JCT. SR2455				(100)STRAHNET HIGHWAY - Not a STRAHNET Route			0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - No Parallel Structure			N
(16)LAT 34° 33' 18.90" (17)LONG 79° 12' 25.74"				(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
STRUCTURE TYPE AND MATERIAL				(31) MAINTAIN - State Highway Agency			01
(43) STRUCTURE TYPE MAIN: Prestressed Concrete				(22) OWNER - State Highway Agency			01
TYPE - Channel Beam	CODE	522		(37) HISTORICAL SIGNIFICANCE - Not Eligible			5
(44) STRUCTURE TYPE APPR :				CONDITION			
TYPE -	CODE	000		(58) DECK			7
(45) NUMBER OF SPANS IN MAIN UNIT		2		(59) SUPERSTRUCTURE			7
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE			5
(107)DECK STRUCTURE TYPE - 1	CODE			(61) CHANNEL & CHANNEL PROTECTION			7
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS			N
(A) TYPE OF WEARING SURFACE -	CODE			LOAD RATING AND POSTING			
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD Unknown			0
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD - Allowable Stress			2
				(64) OPERATING RATING - HS-1			1
(27) YEAR BUILT		1961		(65) INVENTORY RATING METHOD - Allowable Stress			2
(106)YEAR RECONSTRUCTED				(66) INVENTORY RATING - HS-1			1
(42) TYPE OF SERVICE : ON - Highway				(70) BRIDGE POSTING - Posting Required			1
UNDER - Waterway	CODE	15		(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		DESCRIPTION - Posted for Load			
(29) AVERAGE DAILY TRAFFIC		650		APPRAISAL			
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT		6%		(67) STRUCTURAL EVALUATION			3
(19) BYPASS OR DETOUR LENGTH		5 MI		(68) DECK GEOMETRY			4
GEOMETRIC DATA				(69) UNDERCLEARANCES,VERTI & HORIZ			N
(48) LENGTH OF MAXIMUM SPAN		29 FT		(71) WATERWAY ADEQUACY			7
(49) STRUCTURE LENGTH		61 FT		(72) APPROACH ROADWAY ALIGNMENT			8
(50)CURB OR SIDEWALK: LEFT .458 FT RIGHT .458 FT				(36) TRAFFIC SAFETY FEATURES			0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24.167 FT		(113)SCOUR CRITICAL BRIDGES			5
(52) DECK WIDTH OUT TO OUT		25.5 FT		PROPOSED IMPROVEMENTS			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		(75) TYPE OF WORK -			CODE
(33) BRIDGE MEDIAN - No Median	CODE	0		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW 0° (35) STRUCTURE FLARED		0		(94) BRIDGE IMPROVEMENT COST			
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(95) ROADWAY IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24.167 FT		(96) TOTAL PROJECT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(114)FUTURE ADT 1300 (115) YEAR FUTURE ADT 2025			
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		INSPECTIONS			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(90) INSPECTION DATE			12/17/2014
NAVIGATION DATA				(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		A) FRACTURE CRIT DETAIL - NO			A)
(111)PIER PROTECTION -	CODE			B) UNDERWATER INSP - YES 48Mo			B) 07/30/2013
(39) NAVIGATION VERTICAL CLEARANCE		0		C) OTHER SPECIAL INSP NO			C)
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT			SCOUR			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 03/26/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ROBESON	6	1	770135	61	FEET
ROUTE CARRIED :		FEATURE INTERSECTED :			
SR2519		AARON SWAMP			
LOCATED :		BRIDGE NAME :		CITY :	
0.5 MI. W. JCT. SR2455					
FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :	
08	NFA	NFA	650 2013	LT 233	RT 233
BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :	
1961	SHC	4275		Unknown	
REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN.	90	ON 2 UNDER 0
NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :
VC 0 FT	HC 0 FT		11 FT		4 FT
SUPERSTRUCTURE : PPC CHANNELS (STD.BMD-13)					
SUBSTRUCTURE : E.BTS&INT.BTS:PPC CAPS/TIMBER PILES @ VAR. CTS.					
SPANS : 2@30'5					
BEAMS OR GIRDERS : 8 LNS 38" PPC CHANNEL SECTIONS					
FLOOR :	ENCROACHMENT :		DECK (OUT TO OUT) :		
PPCCH/3.5 AWS			25.5 FT		
CLEAR ROADWAY :	BETWEEN RAILS :		SIDEWALK OR CURB :		
24.167 FT	25.083 FT		LT	.458 FT	RT .458 FT
VERT.CL.OVER : 999.9 FT					
INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	Channel BMD-13	SV 21	24	03/26/2015
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N		
UNDER ROUTES AND CLEARANCES					
REMARKS :					

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770135

County ROBESON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	4	END BENT 2 TIMBER ABUTMENT IS DECAYED 4' WITH FILL LEAKAGE AT NORTHEAST CORNER	
 3344	Repair / Replace Timber Substructure Components	LF	4	END BENT 2 TIMBER ABUTMENT DECAY WITH FILL LEAKAGE 4 FT. , CAUSING EROSION / SETTLEMENT IN APPROACH SHOULDER (PM ISSUED)	
 3344	Repair / Replace Timber Substructure Components	LF	15	END BENT 1 TIMBER ABUTMENT TOP BOARD DECAYED WITH FILL EXPOSED 15 FT. FROM BETWEEN PILES 1 AND 2 TO NORTH END (PM ISSUED)	
 3352	Maint Slope Protection	SF	3	SOUTHEAST CORNER APPROACH SHOULDER SETTLED 1' DEEP X 1' WIDE X 2' LONG DUE TO END BENT 2 ABUTMENT FILL LEAKAGE (PM ISSUED)	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770135

County ROBESON

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	4 LF
Location:		
Abutment Substructure	Bent/Span No. 2	TIMBER ABUTMENT
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/17/2014	R.D.HEATH	R.L.KISNER
Details		
END BENT 2 TIMBER ABUTMENT IS DECAYED 4' WITH FILL LEAKAGE AT NORTHEAST CORNER		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	4 LF
Location:		
Abutment Substructure	Bent/Span No. 2	TIMBER ABUTMENT
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/17/2014	R.D.HEATH	R.L.KISNER
Details		
END BENT 2 TIMBER ABUTMENT DECAY WITH FILL LEAKAGE 4 FT. , CAUSING EROSION / SETTLEMENT IN APPROACH SHOULDER (PM ISSUED)		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770135

County ROBESON

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	15 LF
Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER ABUTMENT
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/17/2014	R.D.HEATH	R.L.KISNER
Details		
END BENT 1 TIMBER ABUTMENT TOP BOARD DECAYED WITH FILL EXPOSED 15 FT. FROM BETWEEN PILES 1 AND 2 TO NORTH END (PM ISSUED)		

MMS Code	MMS Description	Quantity
3352	Maint Slope Protection	3 SF
Location:		
Slope	Bent/Span No. 2	EAST APPROACH SHOULDER
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
12/17/2014	R.D.HEATH	R.L.KISNER
Details		
SOUTHEAST CORNER APPROACH SHOULDER SETTLED 1' DEEP X 1' WIDE X 2' LONG DUE TO END BENT 2 ABUTMENT FILL LEAKAGE (PM ISSUED)		



SOUTHEAST CORNER APPROACH SHOULDER SETTLED 1' DEEP X 1' WIDE X 2' LONG DUE TO END BENT 2 ABUTMENT FILL LEAKAGE (PM ISSUED)



END BENT 2 TIMBER ABUTMENT IS DECAYED 4' WITH FILL LEAKAGE AT NORTHEAST CORNER



END BENT 2 TIMBER ABUTMENT DECAY WITH FILL LEAKAGE 4 FT. , CAUSING EROSION / SETTLEMENT IN
APPROACH SHOULDER (PM ISSUED)

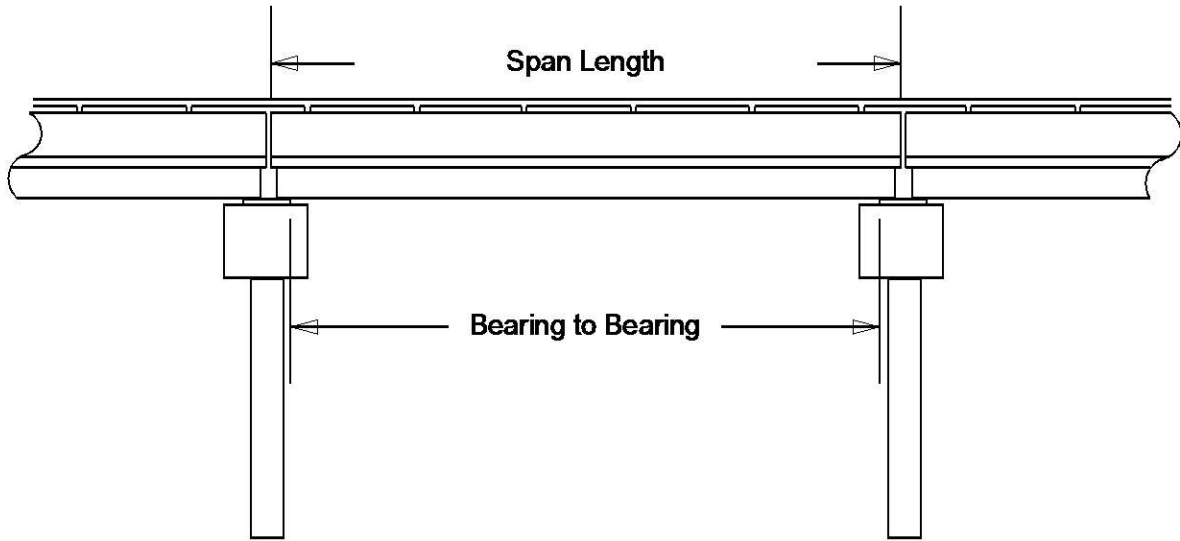


END BENT 1 TIMBER ABUTMENT TOP BOARD DECAYED WITH FILL EXPOSED 15 FT. FROM BETWEEN PILES 1 AND 2 TO NORTH END (PM ISSUED)

Structure Data Worksheet

Spans

County: ROBESON Structure No: 770135 Date: Inspected By: RDH



Span No	Span Length	Bearing to Bearing	Comments
1	30.417 FT.	29.167 FT.	NBIS 58.0 FT.
2	30.417 FT.	29.167 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 770135 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			
1.5	9.4	GROUND AT CAP	1.5	8.8	GROUND AT CAP
7	9.5	WSWE (SOUTH)			
15	11.8				
25	13.6				
30.2	13.1	BENT 1	30.2	13.1	BENT 1
40	13.6				
49	11.7				
53.5	9.5	WSWE			
59	8.2	GROUND AT CAP	59	8.9	GROUND AT CAP
59.5	4.3	Top of Cap			
60.5	2.8	FILLFACE/ BULKHEAD			

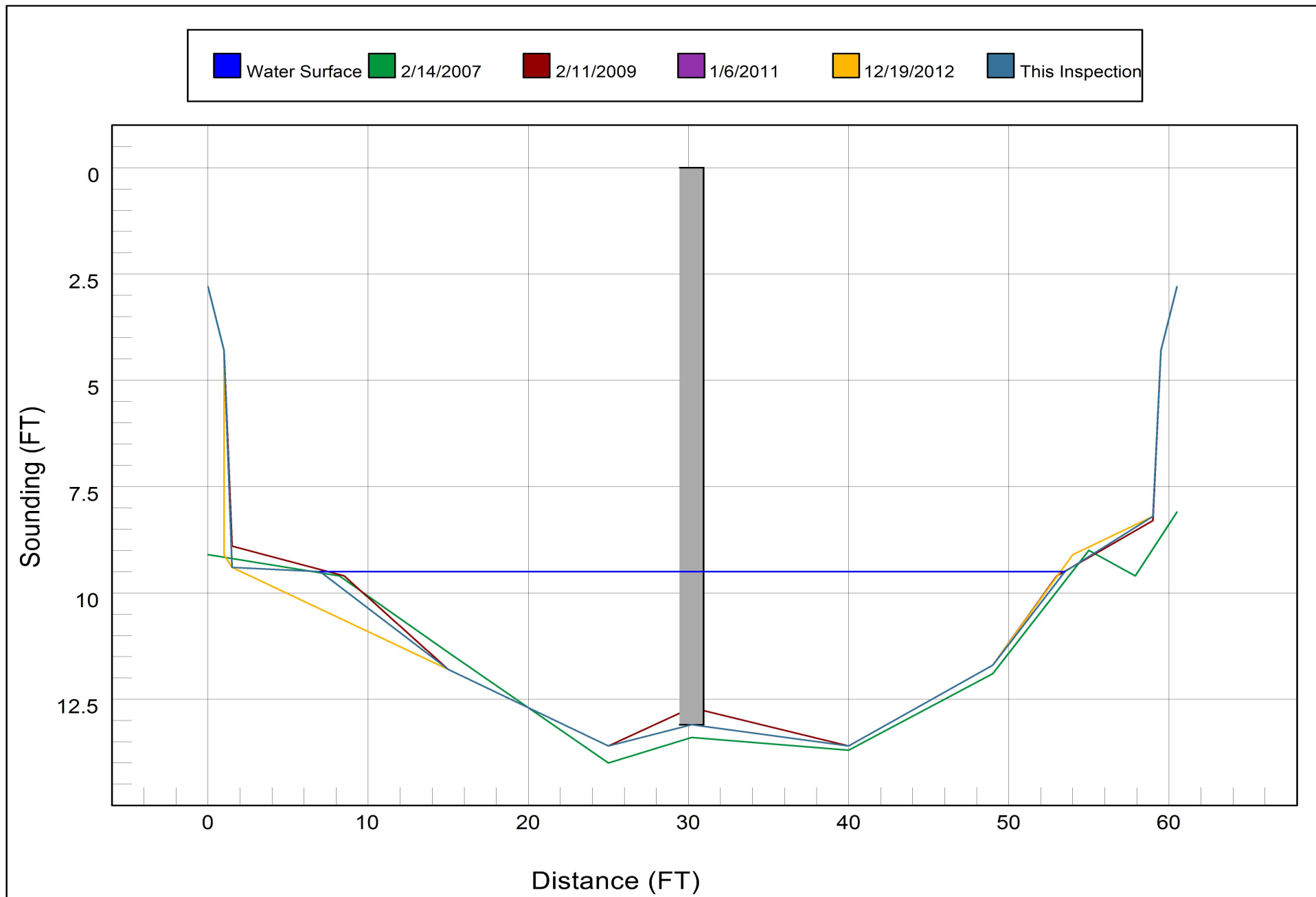
Bridge: 770135

County ROBESON

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



SR - 2519 (SOUTH ROBESON ROAD)

Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
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 EAST

Bridge No: 770135

Drawn By: HWH

Date: 02/13/2007

File Name: S0206000922

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.5ft	Wearing Surface	.290ft
Between Rails	25.083ft	Median Width	
Curb Height	.542ft	Median Height	
Top Rail to Deck/Wearing Surface	2.459ft	Left Guardrail Width	
Clear Roadway	24.167ft	Right Guardrail Width	
Left Bridge Rail	Type 23	Right Bridge Rail	Type 23

Measurements for Span #	1	SPAN 2 SIMILAR	
Deck Thickness	.459	Left Overhang	1.08
Top of Rail to Bottom of Beam	4.25	Right Overhang	1.08

No. of Channels	8
Leg Width	.333ft
Leg Height	1.042ft
Leg to Leg (Centers)	2.17ft
Channel Width	3.19ft
Channel Height	1.4ft
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

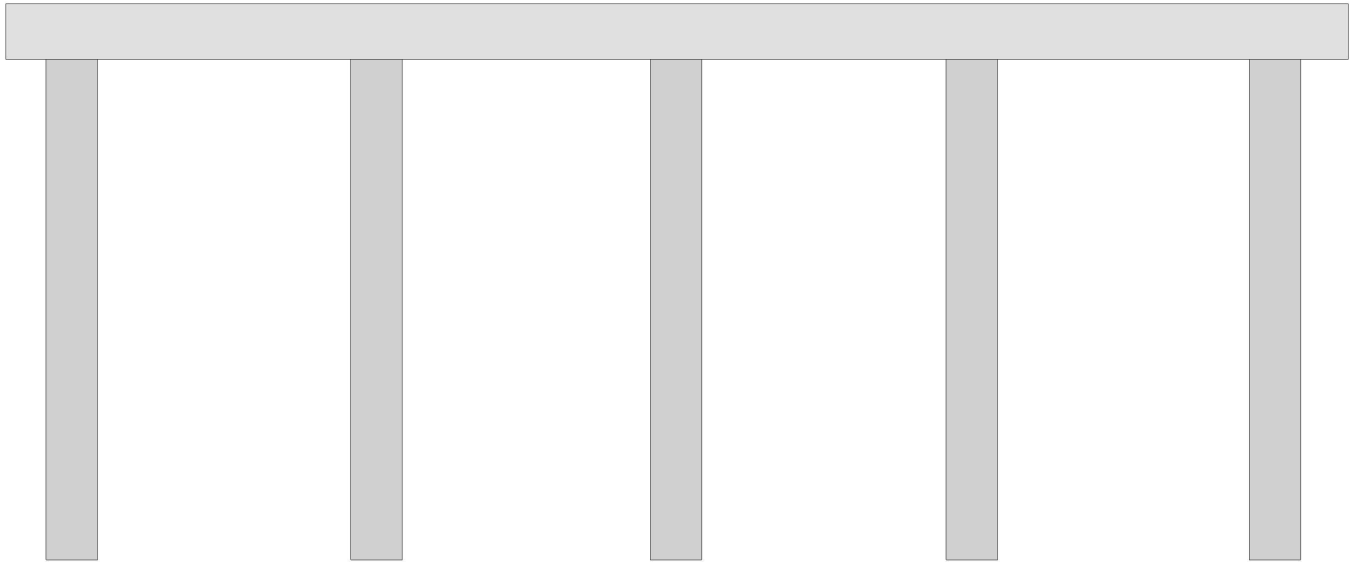
Bridge No: 770135

Drawn By: HWH

Date: 02/13/2007

File Name: S0206000923

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.			
26.08 ft.	1.333 ft.	1.083 ft.	1.28 ft.	1.42 ft.	.55 ft.		.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	5.92 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	5.82 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	5.75 ft.	1 ft.			Vertical	Yes	No	No	No
5	Timber	5.89 ft.	1 ft.			Vertical	Yes	No	No	No
Bent/Abutment #: 1			Similar Bents:							

Title		Description	
SUBSTRUCTURE		END BENT 1	
Bridge No: 770135	Drawn By: RLK	Date: 12/17/2014	File Name: S0206000924

[illegible]

[illegible]

Bridge Inspection Field Sketch

← NORTH

0.0'

END BENT 2

0.0'

3.5'

2.8'

0.0'

END BENT 1

0.0'

W/S TOP OF RAIL - 9.3'

Title

PLAN VIEW

Description

TOP VIEW

Bridge No: 770135

Drawn By: PGR

Date: 8/8/2013

File Name: S0178000995