



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **TEMPORARY REPAIRS / PM ISSUED**

Structure Safety Report

Routine Element Inspection

COUNTY: BLADEN STRUCTURE NUMBER: 080032 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1700 MILE POST: _____
LOCATION: 0.2 MI.N.JCT.SR1708
FEATURE INTERSECTED: HAMMOND CREEK
LATITUDE: 34° 34' 43.41" LONGITUDE: 78° 35' 30.81"
SUPERSTRUCTURE: PRESTRESSED CONCRETE CHANNELS, STD.BMD-13
SUBSTRUCTURE: E.BTS&BTS:PRESTR.CONC.CAPS ON TIM.PILES@5"6CTS
SPANS: 1@30"6,1@30",1@30"6
☐ FRACTURE CRITICAL ☒ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION
PRESENT CONDITION: Fair INSPECTION DATE: 06/02/2015
POSTED SV: 22 POSTED TTST: 25
OTHER SIGNS PRESENT: 3 DELINEATORS



Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>YES</u>	DELINEATORS	<u>1</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>

LOOKING NORTH (MERCER MILL / BROWN MARSH ROAD)

INSPECTED BY Ray L. Kisner	SIGNATURE <i>Ray L. Kisner</i>	ASSISTED BY R.D. Heath
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BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE:

32

COUNTY:

Bladen

DATE:

6-28-11

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 6/28/11
S I & A ITEM 64 OPERATING RATING		
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:
HS		BY:

COMMENTS

Pile 5 @ EBT. 2 Encased with Concrete Temp. Repairs

RETAIN TEMP FOR CHANNEL REPAIRS

TMS - 07/31/15

Span Element Report

Structure Number: 080032

Inspection Date: 06/02/2015

Span Number 1

Span Length 30 Feet

Number of Slabs/Channels: 12

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	924	924	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	360	349	0	11	0	11	3306
216		Timber Abutment	39	38	1	0	0	1	3346
228		Timber Pile	6	6	0	0	0	0	3344
234		Reinforced Concrete Pier Cap	31	31	0	0	0	0	3348
330		Metal Bridge Railing	60	60	0	0	0	0	3322
515	330	Steel Protective Coating	150	150	0	0	0	0	3342
510		Wearing Surface	870	858	0	12	0	12	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 Feet

Number of Slabs/Channels: 12

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	924	924	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	360	358	2	0	0	2	3306
228		Timber Pile	6	6	0	0	0	0	3344
234		Reinforced Concrete Pier Cap	31	31	0	0	0	0	3348
330		Metal Bridge Railing	60	60	0	0	0	0	3322
515	330	Steel Protective Coating	150	150	0	0	0	0	3342
510		Wearing Surface	870	850	0	20	0	20	2816

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

Span Number 3

Span Length 30 Feet

Number of Slabs/Channels: 12

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	924	924	0	0	0	0	3326
104		Prestressed Concrete Closed Web/Box	360	356	4	0	0	4	3306
216		Timber Abutment	39	39	0	0	0	0	3346
228		Timber Pile	12	11	1	0	0	1	3344
233		Prestressed Concrete Pier Cap	62	62	0	0	0	0	3348
330		Metal Bridge Railing	60	60	0	0	0	0	3322
515	330	Steel Protective Coating	150	150	0	0	0	0	3342
510		Wearing Surface	870	870	0	0	0	0	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: 080032

Inspection Date: 06/02/2015

Structure Number: 080032

Inspection Date: 06/02/2015

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
☒ Bridge Rail	1	330	Metal Bridge Railing	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	75	0	0	0	0	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	75	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	870	858	0	12	0	12	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	30	19	0	11	0	11	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	9	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	10	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	11	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	11	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	12	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	12	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested

Structure Number: 080032

Inspection Date: 06/02/2015

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
☒ Bridge Rail	1	330	Metal Bridge Railing	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	75	0	0	0	0	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	75	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	870	850	0	20	0	20	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	30	28	2	0	0	2	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	9	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	10	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	11	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	11	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	12	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	12	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested

Structure Number: 080032
Span Number 3

Inspection Date: 06/02/2015

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	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	75	0	0	0	0	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	75	75	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	870	870	0	0	0	0	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	1	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	2	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	3	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	4	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	5	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	6	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	7	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	8	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	9	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	10	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	11	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	11	104	Prestressed Concrete Closed Web/Box C	30	26	4	0	0	4	3306	☐ Requested
☐ Beam	12	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	12	104	Prestressed Concrete Closed Web/Box C	30	30	0	0	0	0	3306	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 080032

Inspection Date: 06/02/2015

Span Number 1

Span 1	Wearing Surfaces	Component Name:	Asphalt Wearing Surface
Element: 510	Name Wearing Surface	Qty: 870	Lvl 2: 0 Lvl 3: 12 Lvl 4: 0 Maint. Qty: 12
Defect Description:			

12 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 IN NORTH BOUND LANE

Span 1	Beam 6	Component Name:	Prestressed Concrete Channel
Element: 104	Name Prestressed Concrete Closed V	Qty: 30	Lvl 2: 0 Lvl 3: 11 Lvl 4: 0 Maint. Qty: 11
Defect Description:			

5 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. RIGHT LEG CRACKED, SPALLED 2' LONG X 3" HIGH AT 10' FROM BENT 1 PM ISSUED

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. RIGHT LEG SPALL 12" LONG X 4" HIGH WITH 8" EXPOSED PRESTRESS CABLE PM ISSUED

5 Feet of Cracking (PSC): Width greater than 0.009 in. or spacing less than 1 ft. 5' LONG X 1/4" CRACK IN RIGHT LEG AT 5' FROM END BENT 1 PM ISSUED

Span Number 2

Span 2	Wearing Surfaces	Component Name:	Asphalt Wearing Surface
Element: 510	Name Wearing Surface	Qty: 870	Lvl 2: 0 Lvl 3: 20 Lvl 4: 0 Maint. Qty: 20
Defect Description:			

20 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" LONGITUDINAL
CRACK IN LEFT SHOULDER

Span 2	Beam 2	Component Name:	Prestressed Concrete Channel
Element: 104	Name Prestressed Concrete Closed V	Qty: 30	Lvl 2: 2 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 2
Defect Description:			

2 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. PATCH ON RIGHT AND LEFT LEGS AT BENT 1

Span Number 3

Span 3	Beam 11	Component Name:	Prestressed Concrete Channel
Element: 104	Name Prestressed Concrete Closed V	Qty: 30	Lvl 2: 4 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 4
Defect Description:			

4 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. 2 - 2' LONG PATCHES ON RIGHT LEG 1 AT MIDSPAN 1 AT 5' FROM BENT 2 (TEMPORARY REPAIRS)

Substructure Detailed Element Quantities

Structure Number: 080032
End Bent 1

Inspection Date: 06/02/2015

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	39	38	1	0	0	1	3346	☐ Requested
☒ Caps	1	234	Reinforced Concrete Pier Cap	31	31	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	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	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	234	Reinforced Concrete Pier Cap	31	31	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	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Structure Number: 080032

Inspection Date: 06/02/2015

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
☒ Piles and Columns	1	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	2	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
☒ Piles and Columns	6	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Caps	1	233	Prestressed Concrete Pier Cap	31	31	0	0	0	0	3348	☐ 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
☒ 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
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	39	39	0	0	0	0	3346	☐ Requested
☒ Caps	1	233	Prestressed Concrete Pier Cap	31	31	0	0	0	0	3348	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 080032

Inspection Date: 06/02/2015

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 39 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 1

Defect Description:

1 Feet of Decay/Section Loss: Affects less than 10% of the member section TURNPILE IN SOUTHEAST CORNER HAS SECTION LOSS 2' HIGH X 10" WIDE X 2" DEEP

Bent 2	Row 1	Piles and Columns	6
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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 DECAYED 8" HIGH X 3" WIDE X 1 1/2" DEEP AT 2' BELOW CAP ON SPAN 3 FACE

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

Defect Description:

PILE 5 AT END BENT 2 ENCASED IN CONCRETE (TEMPORARY REPAIR)

National Bridge and NC Inspection Items

Structure Number: 080032

Inspection Date: 06/02/2015

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	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	2640	3376
Drainage System	G, F, P, or C	P	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Wingwall	G, F, P, or C			
Scour	G, F, P, or C	F		
Field Scour Evaluation		O		
Drift	G, F, P, or C	F	4	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	6		

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	Y
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	N
Other Equipment Used	YES/NO	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 080032

Inspection Date: 06/02/2015

Item	Deck - Item 58	Grade	5	Maint Code		Qty.	0
Details	SPAN 2 RIGHT CURB 10' HAIRLINE MAP CRACKING 10' MAINTENANCE SPAN 2 LEFT CURB HAS 20' HAIRLINE MAP CRACKING 20 FT. MAINTENANCE						
Item	Regulatory Sign Notice Issued	Grade	Y	Maint Code		Qty.	0
Details	1 DELINEATOR NOT IN PLACE						
Item	Priority Maintenance Issued	Grade	Y	Maint Code		Qty.	0
Details	PM ISSUED ON SPAN 1 CHANNEL 6 RIGHT LEG 3 AREAS OF CRACKING AND SPALLS						
Item	Other Equipment Used	Grade	Y	Maint Code		Qty.	0
Details	BOOTS						
Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	2640
Details	RIGHT SIDE DRAINS BLOCKED BY VEGETATION LEFT CURB DRAINS BLOCKED BY VEGETATION						
Item	Drainage System	Grade	P	Maint Code	3332	Qty.	0
Details	RIGHT SIDE DRAINS BLOCKED BY VEGETATION LEFT CURB DRAINS BLOCKED BY VEGETATION						
Item	Slope Protection	Grade	G	Maint Code	3352	Qty.	0
Details	RIP RAP PLACED IN SPAN 1 AT END BENT 1 IN SOUTHEAST CORNER RIP RAP PLACED IN SPAN 1 AT END BENT 1 IN SOUTHWEST CORNER						
Item	Drift	Grade	F	Maint Code	3366	Qty.	4
Details	DRIFT IN SPAN 2						



Span 1 Wearing Surface: 12 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 IN NORTH BOUND LANE



Span 2 Wearing Surface: 20 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. 1/8" LONGITUDINAL CRACK IN LEFT SHOULDER



RIGHT SIDE DRAINS BLOCKED BY VEGETATION



SPAN 2 RIGHT CURB 10' HAIRLINE MAP CRACKING 10' MAINTENANCE



LEFT CURB DRAINS BLOCKED BY VEGETATION



SPAN 2 LEFT CURB HAS 20' HAIRLINE MAP CRACKING 20 FT. MAINTENANCE



Span 1 Channel/Slab 6: 5 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. RIGHT LEG CRACKED, SPALLED 2' LONG X 3" HIGH AT 10' FROM BENT 1 PM ISSUED



Span 1 Channel/Slab 6: 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. RIGHT LEG SPALL 12" LONG X 4" HIGH WITH 8" EXPOSED PRESTRESS CABLE PM ISSUED



Span 1 Channel/Slab 6: 5 Feet of Cracking (PSC): Width greater than 0.009 in. or spacing less than 1 ft. 5' LONG X 1/4" CRACK IN RIGHT LEG AT 5' FROM END BENT 1 PM ISSUED



DRIFT IN SPAN 2



Span 2 Channel/Slab 2: 2 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. PATCH ON RIGHT AND LEFT LEGS AT BENT 1



End Bent 1 Abutment/Backwall : 1 Feet of Decay/Section Loss: Affects less than 10% of the member section
TURNPILE IN SOUTHEAST CORNER HAS SECTION LOSS 2' HIGH X 10" WIDE X 2" DEEP



PILE 5 AT END BENT 2 ENCASED IN CONCRETE (TEMPORARY REPAIR)



Span 3 Channel/Slab 11: 4 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. 2 - 2' LONG PATCHES ON RIGHT LEG 1 AT MIDSPAN 1 AT 5' FROM BENT 2 (TEMPORARY REPAIRS)



Bent 2 Pile 6: 1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAYED 8" HIGH X 3" WIDE X 1 1/2" DEEP AT 2' BELOW CAP ON SPAN 3 FACE



LOOKING NORTH (MERCER MILL / BROWN MARSH ROAD)



LOOKING NORTH, POSTING



DOWNSTREAM WEST



UPSTREAM EAST



LOOKING SOUTH



LOOKING SOUTH, POSTING



LOOKING SOUTH, OFF BRIDGE



LOOKING NORTH, OFF BRIDGE



WEST PROFILE



END BENT 1



BENT 1



WEST END OF BENT 1 CAP



RIP RAP PLACED IN SPAN 1 AT END BENT 1 IN SOUTHEAST CORNER



RIP RAP PLACED IN SPAN 1 AT END BENT 1 IN SOUTHWEST CORNER



BENT 2



SUPERSTRUCTURE



UPSTREAM EAST, THRU SPAN 2



DOWNSTREAM WEST, THRU SPAN 2



EAST PROFILE



END BENT 2

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

Run Date: 07/14/2015

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	080032		SUFFICIENCY RATING =	29.21		
(8) STRUCTURE NUMBER(FEDERAL)		000000000170032		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31017000					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE	17	(4) PLACE CODE	0				
(6) FEATURE INTERSECTED -	HAMMOND CREEK						
(7) FACILITY CARRIED	SR1700						
(9) LOCATION	0.2 MI.N.JCT.SR1708						
(11)MILEPOINT		0					
(16)LAT	34° 34' 43.41"	(17)LONG	78° 35' 30.81"				
(98)BORDER BRIDGE STATE CODE		PCT SHARE					
(99)BORDER BRIDGE STRUCTURE NO							
STRUCTURE TYPE AND MATERIAL							
(43) STRUCTURE TYPE MAIN:	Prestressed Concrete						
TYPE -	Channel Beam	CODE	522				
(44) STRUCTURE TYPE APPR :							
TYPE -		CODE	000				
(45) NUMBER OF SPANS IN MAIN UNIT		3					
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE -	1	CODE					
(108)WEARING SURFACE / PROTECTIVE SYSTEM :							
(A) TYPE OF WEARING SURFACE -		CODE					
(B) TYPE OF MEMBRANE -		CODE					
(C) TYPE OF DECK PROTECTION -		CODE					
AGE AND SERVICE							
(27) YEAR BUILT		1975					
(106)YEAR RECONSTRUCTED							
(42) TYPE OF SERVICE : ON -	Highway						
UNDER -	Waterway	CODE	15				
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE	0				
(29) AVERAGE DAILY TRAFFIC		2000					
(30) YEAR OF ADT	2013	(109) TRUCK ADT PCT	6%				
(19) BYPASS OR DETOUR LENGTH		6 MI					
GEOMETRIC DATA							
(48) LENGTH OF MAXIMUM SPAN		29 FT					
(49) STRUCTURE LENGTH		91 FT					
(50)CURB OR SIDEWALK: LEFT	.5 FT	RIGHT	.5 FT				
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		29 FT					
(52) DECK WIDTH OUT TO OUT		30.5 FT					
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		25 FT					
(33) BRIDGE MEDIAN -	No Median	CODE	0				
(34) SKEW	0°	(35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		29 FT					
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT					
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad	0 FT					
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad	000 FT					
(56) MIN LAT UNDERCLEAR LT REF -		000 FT					
NAVIGATION DATA							
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0				
(111)PIER PROTECTION -		CODE					
(39) NAVIGATION VERTICAL CLEARANCE		0					
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT					
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					
CLASSIFICATION				CODE			
(112)NBIS BRIDGE SYSTEM -				YES			
(104)HIGHWAY SYSTEM	Is not on NHS			0			
(26) FUNCTIONAL CLASS -	Minor Collector			08			
(100)STRAHNET HIGHWAY -	Not a STRAHNET Route			0			
(101)PARALLEL STRUCTURE -	No Parallel Structure			N			
(102)DIRECTION OF TRAFFIC -	2-way Traffic			2			
(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions			T			
(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network			0			
(20) TOLL	On Free Road			3			
(31) MAINTAIN -	State Highway Agency			01			
(22) OWNER -	State Highway Agency			01			
(37) HISTORICAL SIGNIFICANCE -	Not Eligible			5			
CONDITION				CODE			
(58) DECK				5			
(59) SUPERSTRUCTURE				5			
(60) SUBSTRUCTURE				5			
(61) CHANNEL & CHANNEL PROTECTION				5			
(62) CULVERTS				N			
LOAD RATING AND POSTING				CODE			
(31) DESIGN LOAD	H 15			2			
(63) OPERATING RATING METHOD -	Load Factor			1			
(64) OPERATING RATING -	HS-1			1			
(65) INVENTORY RATING METHOD -	Load Factor			1			
(66) INVENTORY RATING -	HS-1			1			
(70) BRIDGE POSTING -	Posting Required			1			
(41) STRUCTURE OPEN, POSTED ,OR CLOSED				P			
DESCRIPTION -	Posted for Load						
APPRAISAL				CODE			
(67) STRUCTURAL EVALUATION				3			
(68) DECK GEOMETRY				5			
(69) UNDERCLEARANCES,VERTI & HORIZ				N			
(71) WATERWAY ADEQUACY				7			
(72) APPROACH ROADWAY ALIGNMENT				8			
(36) TRAFFIC SAFETY FEATURES				0000			
(113)SCOUR CRITICAL BRIDGES				5			
PROPOSED IMPROVEMENTS				CODE			
(75) TYPE OF WORK -							
(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	4000	(115) YEAR FUTURE ADT	2025				
INSPECTIONS							
(90) INSPECTION DATE				06/02/2015			
(92) CRITICAL FEATURE INSPECTION :				(93) CFI DATE			
A) FRACTURE CRIT DETAIL -	NO			A)			
B) UNDERWATER INSP -	NO			B)			
C) OTHER SPECIAL INSP	NO			C)			
SCOUR							

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 07/14/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
BLADEN	6	3	080032	91	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1700	HAMMOND CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.2 MI.N.JCT.SR1708		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	2000 2013	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1975	DOH	5216		H 15

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		13 FT		4		FT

SUPERSTRUCTURE :	PRESTRESSED CONCRETE CHANNELS, STD.BMD-13
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SUBSTRUCTURE :	E.BTS&BTS:PRESTR.CONC.CAPS ON TIM.PILES@5'6CTS
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SPANS :	1@30'6,1@30',1@30'6
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BEAMS OR GIRDERS :	12 PRESTRESSED CONCRETE CHANNEL SECTIONS
--------------------	--

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
PPC.CH./4AWS		30.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
29 FT	30 FT	LT .5 FT RT .5 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	Pile	SV 22	25	08/12/2009

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 080032

County BLADEN

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3306	Maintain Concrete Superstructure Components	SF	2	SPAN 1 CHANNEL 6 RIGHT LEG SPALLED 12" LONG X 4" HIGH WITH EXPOSED PRESTRESS CABLE PM ISSUED	
 3306	Maintain Concrete Superstructure Components	SF	5	SPAN 1 CHANNEL 6 RIGHT LEG CRACKED 5' LONG X 1/4" WIDE AT 5' FROM END BENT 1 PM ISSUED	
 3306	Maintain Concrete Superstructure Components	SF	2	CHANNEL 6 IN SPAN 1 RIGHT LEG CRACKED , SPALLED 2' LONG X 3" HIGH AT 10' FROM BENT 1 CAP	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 080032

County BLADEN

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Beams and Girders	Bent/Span No. 1	CHANNEL 6 RIGHT LEG
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
06/02/2015	R.L.KISNER	R.D.HEATH
Details		
SPAN 1 CHANNEL 6 RIGHT LEG SPALLED 12" LONG X 4" HIGH WITH EXPOSED PRESTRESS CABLE PM ISSUED		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	5 SF
Location:		
Beams and Girders	Bent/Span No. 1	CHANNEL 6 RIGHT LEG
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
06/02/2015	R.L.KISNER	R.D.HEATH
Details		
SPAN 1 CHANNEL 6 RIGHT LEG CRACKED 5' LONG X 1/4" WIDE AT 5' FROM END BENT 1 PM ISSUED		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 080032

County BLADEN

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Beams and Girders	Bent/Span No. 1	CHANNEL 6 RIGHT LEG
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
06/02/2015	R.L.KISNER	R.D.HEATH
Details		
CHANNEL 6 IN SPAN 1 RIGHT LEG CRACKED , SPALLED 2' LONG X 3" HIGH AT 10' FROM BENT 1 CAP		



SPAN 1 CHANNEL 6 RIGHT LEG CRACKED, SPALLED 2' LONG X 3" HIGH AT 10' FROM BENT 1 CAP PM
ISSUED



SPAN 1 CHANNEL 6 RIGHT LEG SPALLED 12" LONG X 4" HIGH WITH EXPOSED PRESTRESS CABLE PM ISSUED

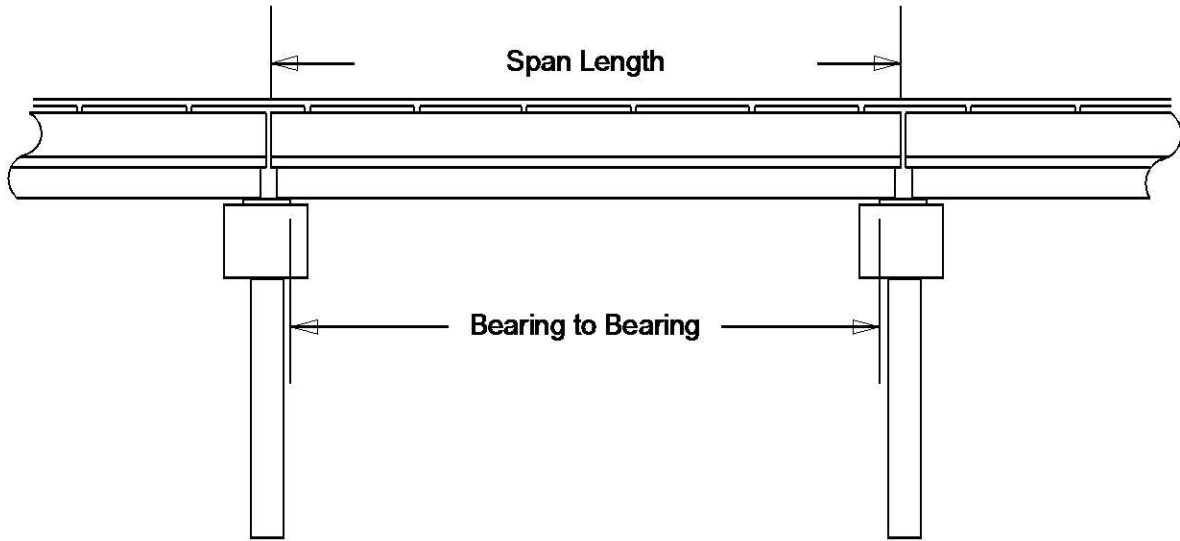


SPAN 1 CHANNEL 6 RIGHT LEG CRACKED 5' LONG X 1/4" WIDE AT 5' FROM END BENT 1 PM ISSUED

Structure Data Worksheet

Spans

County: BLADEN Structure No: 080032 Date: Inspected By: RLK



Span No	Span Length	Bearing to Bearing	Comments
1	30.50 FT.	29.42 FT.	NBIS 88.667 FT.
2	30.00 FT.	29.42 FT.	
3	30.50 FT.	29.42 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 080032 County: BLADEN Date: By: RLK

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

Distance from Highwater Mark to top of rail: 8 Location of Highwater Mark: ON PILES

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8	TOP OF BULKHEAD			
1	4.4	Top of Cap			
3	5.3	GROUND AT CAP	3	6.1	GROUND AT CAP
15	9.6				
26.5	12.5	WSWE (WEST)			
27	15.6				
30.5	15	BENT 1	30.5	14.1	BENT 1
45.5	16	C/L OF STREAM			
60.7	14.9	BENT 2	60.7	14.6	BENT 2
64.5	12.5	WSWE			
80	7.3				
89	6.8	GROUND AT CAP	89	5.7	GROUND AT CAP
90	4.4	Top of Cap			
91	2.8	TOP OF BULKHEAD			

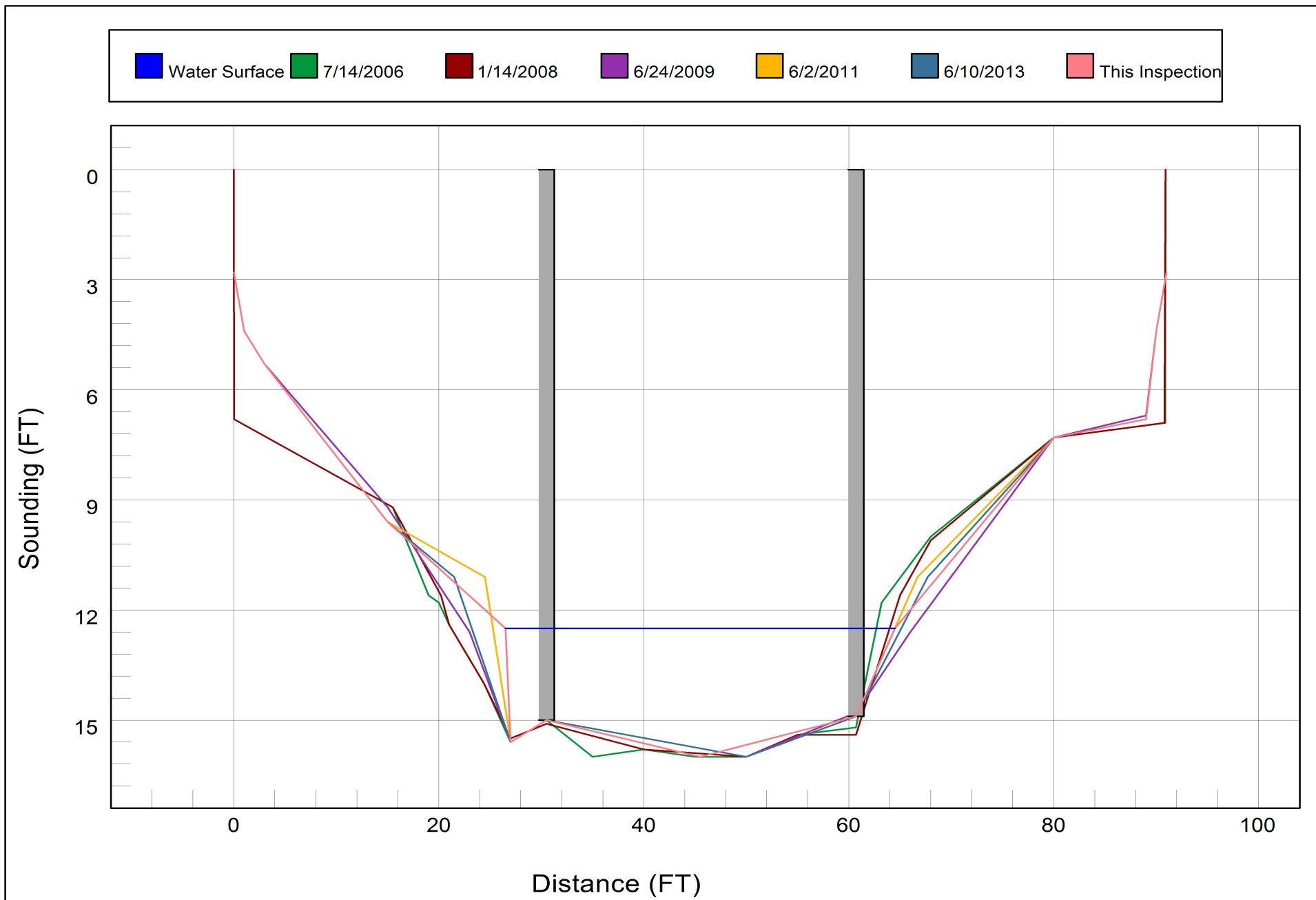
Bridge: 080032

County: BLADEN

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1700 (MERCER MILL/ BROWN MARSH ROAD)

Roadway	21.333ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6.75ft Wide	1.75ft Paved	5ft Unpaved
Right Shoulder	8.25ft Wide	2.25ft Paved	6.00ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPROACH ROADWAY

Description

LOOKING NORTH

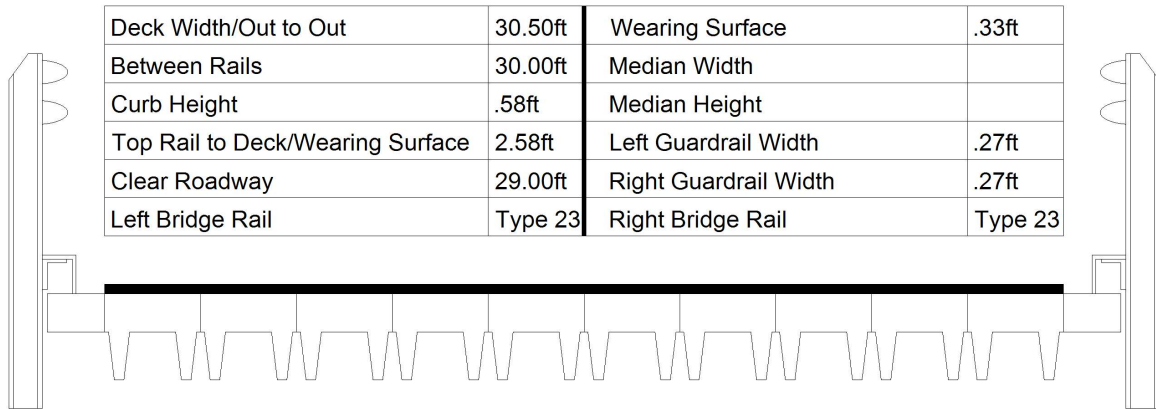
Bridge No: 080032

Drawn By: RLK

Date: 6/02/2015

File Name: S0290003733

Bridge Inspection Field Sketch



Measurements for Span #	1	SPANS 2 AND 3 SIMILAR	
Deck Thickness	.42	Left Overhang	
Top of Rail to Bottom of Beam	4.33	Right Overhang	

No. of Channels	12
Leg Width	.21ft
Leg Height	1.00ft
Leg to Leg (Centers)	2.00ft
Channel Width	2.54ft
Channel Height	1.42ft
Comments	

MEASUREMENTS VERIFIED BY RLK 6/2/11

MEASUREMENTS VERIFIED BY RLK 6/10/13

MEASUREMENTS VERIFIED BY RLK 6/2/15

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

Bridge No: 080032

Drawn By: RBH

Date: 01/14/08

File Name: S0290003734

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.
30.69 ft.	1.33 ft.	1.00 ft.	1.17 ft.	1.17 ft.	.511 ft.	.511 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		1.00 ft.			Vertical	Yes	No	No	No
2	Timber	5.67 ft.	1.00 ft.			Vertical	Yes	No	No	No
3	Timber	5.67 ft.	1.00 ft.			Vertical	Yes	No	No	No
4	Timber	5.67 ft.	1.00 ft.			Vertical	Yes	No	No	No
5	Timber	5.67 ft.	1.00 ft.			Vertical	Yes	No	No	No
6	Timber	5.67 ft.	1.00 ft.			Vertical	Yes	No	No	No
PILE 5 AT END BENT 2 IS ENCASED IN CONCRETE INTERIOR BENTS 1 AND 2 SIMILAR WITH TIMBER CROSSBRACING										

Bent/Abutment #:	1	Similar Bents:	2
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Title

SUBSTRUCTURE

Description

SUBSTRUCTURE

Bridge No:	080032	Drawn By:	RLK	Date:	6/02/2015	File Name:	S0290003735
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