



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **SHORED STRUCTURE STRUCTURE DATA CHANGES**

Structure Safety Report

Routine Element Inspection

COUNTY: BLADEN STRUCTURE NUMBER: 080011 FREQUENCY: 24 MONTHS

FACILITY CARRIED: NC53 MILE POST:

LOCATION: 1.4 MI S JCT SR1332

FEATURE INTERSECTED: ELLIS CREEK

LATITUDE: 34° 41' 40.89" LONGITUDE: 78° 39' 33.07"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE: EBTS&IBTS:RC CAPS/TIMBER PILES

SPANS: 4@22"

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

PRESENT CONDITION: Poor INSPECTION DATE: 06/02/2015

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



LOOKING EAST

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 Ray L. Kisner	SIGNATURE <i>Ray L. Kisner</i>	ASSISTED BY R.D.Heath
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Span Element Report

Structure Number: 080011

Inspection Date: 06/02/2015

Span Number 1

Span Length 22 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
38		Reinforced Concrete Slabs	509	249	259	1	0	260	3326
110		Reinforced Concrete Open Girder/Bear	88	86	2	0	0	2	3306
218		Other Abutments	23	23	0	0	0	0	3350
228		Timber Pile	6	6	0	0	0	0	3344
234		Reinforced Concrete Pier Cap	23	22	0	1	0	1	3348
316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	44	43	0	1	0	1	3318

"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 22 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
38		Reinforced Concrete Slabs	560	249	311	0	0	311	3326
110		Reinforced Concrete Open Girder/Bear	88	71	0	17	0	17	3306
228		Timber Pile	7	3	4	0	0	4	3344
234		Reinforced Concrete Pier Cap	23	23	0	0	0	0	3348
301		Pourable Joint Seal	26	26	0	0	0	0	3310
316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	44	44	0	0	0	0	3318

"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 22 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
38		Reinforced Concrete Slabs	560	352	208	0	0	208	3326
110		Reinforced Concrete Open Girder/Bear	88	88	0	0	0	0	3306
228		Timber Pile	7	5	2	0	0	2	3344
234		Reinforced Concrete Pier Cap	23	23	0	0	0	0	3348
301		Pourable Joint Seal	26	26	0	0	0	0	3310
316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	44	44	0	0	0	0	3318

"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 4

Span Length 22 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
38		Reinforced Concrete Slabs	560	307	253	0	0	253	3326
110		Reinforced Concrete Open Girder/Bear	88	40	0	48	0	48	3306
218		Other Abutments	23	23	0	0	0	0	3350
228		Timber Pile	13	11	2	0	0	2	3344
234		Reinforced Concrete Pier Cap	46	46	0	0	0	0	3348
301		Pourable Joint Seal	26	26	0	0	0	0	3310

Structure Number: 080011

Inspection Date: 06/02/2015

316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	44	44	0	0	0	0	3318

"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: 080011

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
☒ Deck	1	38	Reinforced Concrete Slabs	509	249	259	1	0	260	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	22	22	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	22	21	0	1	0	1	3318	☐ Requested
☒ Beam	1	110	Reinforced Concrete Open Girder/Beam	22	20	2	0	0	2	3306	☐ Requested
☒ Beam	2	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☒ Beam	3	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☒ Beam	4	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☐ 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

Structure Number: 080011

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
☒ Deck	1	38	Reinforced Concrete Slabs	560	249	311	0	0	311	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	22	22	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	22	22	0	0	0	0	3318	☐ Requested
☒ Beam	1	110	Reinforced Concrete Open Girder/Beam	22	19	0	3	0	3	3306	☐ Requested
☒ Beam	2	110	Reinforced Concrete Open Girder/Beam	22	8	0	14	0	14	3306	☐ Requested
☒ Beam	3	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☒ Beam	4	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☐ 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
☒ Expansion Joints	1	301	Pourable Joint Seal	26	26	0	0	0	0	3310	☐ Requested

Structure Number: 080011

Inspection Date: 06/02/2015

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	38	Reinforced Concrete Slabs	560	352	208	0	0	208	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	22	22	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	22	22	0	0	0	0	3318	☐ Requested
☒ Beam	1	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☒ Beam	2	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☒ Beam	3	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☒ Beam	4	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☐ 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
☒ Expansion Joints	1	301	Pourable Joint Seal	26	26	0	0	0	0	3310	☐ Requested

Structure Number: 080011

Inspection Date: 06/02/2015

Span Number 4

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	38	Reinforced Concrete Slabs	560	307	253	0	0	253	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	22	22	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	22	22	0	0	0	0	3318	☐ Requested
☒ Beam	1	110	Reinforced Concrete Open Girder/Beam	22	10	0	12	0	12	3306	☐ Requested
☒ Beam	2	110	Reinforced Concrete Open Girder/Beam	22	3	0	19	0	19	3306	☐ Requested
☒ Beam	3	110	Reinforced Concrete Open Girder/Beam	22	5	0	17	0	17	3306	☐ Requested
☒ Beam	4	110	Reinforced Concrete Open Girder/Beam	22	22	0	0	0	0	3306	☐ Requested
☐ 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
☒ Expansion Joints	1	301	Pourable Joint Seal	26	26	0	0	0	0	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 080011

Inspection Date: 06/02/2015

Span Number 1

Span	1	Deck	1	Component Name: Reinforced Concrete Deck Slab									
Element:	38	Name	Reinforced Concrete Slabs	Qty:	509	Lvl 2:	259	Lvl 3	1	Lvl 4	0	Maint. Qty	260
Defect Description:													

250 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. SCALING WITH EXPOSED AGGREGATE
 5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 1 (OVER CRUTCH PILES)
 3 Square 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 - 16" DIAMETER PATCHES AT END BENT 1 (OVER CRUTCH PILES)
 1 Square 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" DIAMETER X 1" DEEP WITH 3" EXPOSED REBAR IN RIGHT OVERHANG AT BENT 1
 1 Square 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. LEFT DECK OVERHANG SPALL 6" WIDE X 4" LONG X 3" DEEP WITH 2" EXPOSED REBAR AT BENT 1

Span	1	Bridge Rail	2	Component Name:	Concrete Railing								
Element:	331	Name	Reinforced Concrete Bridge Ra	Qty:	22	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. RAIL END POST SPALL 10" HIGH X 8" WIDE X 2" DEEP AT SOUTHWEST CORNER

Span	1	Beam	1	Component Name:	Reinforced Concrete Girder								
Element:	110	Name	Reinforced Concrete Open Gird	Qty:	22	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 AT BENT 1

Span Number 2

Span	2	Deck	1	Component Name:		Reinforced Concrete Deck Slab							
Element:	38	Name	Reinforced Concrete Slabs	Qty:	560	Lvl 2:	311	Lvl 3	0	Lvl 4	0	Maint. Qty	311
Defect Description:													

5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 2 (OVER CRUTCH PILES)
 300 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. SCALING WITH EXPOSED AGGREGATE
 5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 1 (OVER CRUTCH PILES)
 1 Square 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 4" DIAMETER X 1" DEEP IN RIGHT OVERHANG AT BENT 1

Span	2	Beam	1	Component Name:		Reinforced Concrete Girder							
Element:	110	Name	Reinforced Concrete Open Gird	Qty:	22	Lvl 2:	0	Lvl 3	3	Lvl 4	0	Maint. Qty	3
Defect Description:													

3 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS WITH EFFLORESCENCE AT 6" SPACING IN GIRDER UNDERSIDE

Span	2	Beam	2	Component Name:	Reinforced Concrete Girder								
Element:	110	Name	Reinforced Concrete Open Gird	Qty:	22	Lvl 2:	0	Lvl 3	14	Lvl 4	0	Maint. Qty	14
Defect Description:													

14 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS IN GIRDER UNDERSIDE AT 6" TO 1' SPACING

Span Number 3

Span	Deck	1	Component Name: Reinforced Concrete Deck Slab						
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Element: 38 Name Reinforced Concrete Slabs Qty: 560 Lvl 2: 208 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 208

Defect Description:

3 Square 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 - 16" DIAMETER PATCHES AT BENT 3 (OVER CRUTCH PILES)
 5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 2 JOINT (OVER CRUTCH PILES)
 200 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. SCALING WITH EXPOSED AGGREGATE

Span Number 4

Span	Deck	1	Component Name: Reinforced Concrete Deck Slab						
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Element: 38 Name Reinforced Concrete Slabs Qty: 560 Lvl 2: 253 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 253

Defect Description:

3 Square 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 - 16" DIAMETER PATCHES AT BENT 3 JOINT (OVER CRUTCH PILES)
 250 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. SCALING WITH EXPOSED AGGREGATE

Span	Beam	1	Component Name: Reinforced Concrete Girder						
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Element: 110 Name Reinforced Concrete Open Gird Qty: 22 Lvl 2: 0 Lvl 3: 12 Lvl 4: 0 Maint. Qty: 12

Defect Description:

12 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS AT 6" TO 1' SPACING

Span	Beam	2	Component Name: Reinforced Concrete Girder						
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Element: 110 Name Reinforced Concrete Open Gird Qty: 22 Lvl 2: 0 Lvl 3: 19 Lvl 4: 0 Maint. Qty: 19

Defect Description:

19 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS AT 6" TO 1' SPACING

Span	Beam	3	Component Name: Reinforced Concrete Girder						
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Element: 110 Name Reinforced Concrete Open Gird Qty: 22 Lvl 2: 0 Lvl 3: 17 Lvl 4: 0 Maint. Qty: 17

Defect Description:

17 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS AT 6" TO 1' SPACING

Substructure Detailed Element Quantities

Structure Number: 080011

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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	218	Other Abutments	23	23	0	0	0	0	3350	☐ Requested
☒ Caps	1	234	Reinforced Concrete Pier Cap	23	22	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	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	23	23	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	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	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	234	Reinforced Concrete Pier Cap	23	23	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	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested

Bent 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
☒ Caps	1	234	Reinforced Concrete Pier Cap	23	23	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	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	7	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: 080011

Inspection Date: 06/02/2015

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	218	Other Abutments	23	23	0	0	0	0	3350	☐ Requested
☒ Caps	1	234	Reinforced Concrete Pier Cap	23	23	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

Substructure Element Defect Descriptions

Structure Number: 080011

Inspection Date: 06/02/2015

End Bent 1

End Bent 1	Row 1	Caps	1
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Element: 234 **Name** Reinforced Concrete Pier Cap **Qty:** 23 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

END BENT PILES NOT VISIBLE DUE TO RIP RAP AND SOIL SLOPE
1 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" WIDE VERTICAL CRACK UNDER GIRDER 3

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 SURFACE DECAYED 12" HIGH X 12" WIDE X 1" DEEP AND DELAMINATED 2' HIGH X 8" WIDE

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

Defect Description:

TIMBER CROSS CAP CRUTCH
1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. 1/8" WIDE X 3/4" DEEP VERTICAL CHECKS
1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. PILE 2 SPAN 2 CRUTCH PILE 1/2" WIDE X 2" DEEP X 4' HIGH VERTICAL CRACK

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

Defect Description:

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

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

Defect Description:

TIMBER CROSS CAP CRUTCH
1 Each of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone. 1/8" VERTICAL CHECKS

Bent 1	Row 1	Piles and Columns	6
--------	-------	-------------------	---

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

Defect Description:

TIMBER CROSS CAP CRUTCH

Bent 2	Row 1	Piles and Columns	2
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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:

TIMBER CROSS CAP CRUTCH

Bent 2	Row 1	Piles and Columns	4
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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:

TIMBER CROSS CAP CRUTCH

Bent 2	Row 1	Piles and Columns	5
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Structure Number: 080011

Inspection Date: 06/02/2015

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 2' HIGH X 10" WIDE X 2 1/2" DEEP

Bent 2	Row 1	Piles and Columns	6
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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:

TIMBER CROSS CAP CRUTCH

Bent 2	Row 1	Piles and Columns	7
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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 2' HIGH X 6" WIDE X 1" DEEP WITH VEGETATION

Bent 3	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 DECAYED 14" HIGH X 4" WIDE X 1 1/2" DEEP ON SPAN 3 FACE

Bent 3	Row 1	Piles and Columns	2
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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:

TIMBER CROSS CAP CRUTCH

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

Defect Description:

1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAYED 2' HIGH X 16" WIDE X 2 1/2" DEEP

Bent 3	Row 1	Piles and Columns	4
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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:

TIMBER CROSS CAP CRUTCH

Bent 3	Row 1	Piles and Columns	6
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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:

TIMBER CROSS CAP CRUTCH

End Bent 2	Row 1	Caps	1
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Element: 234 **Name** Reinforced Concrete Pier Cap **Qty:** 23 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

END BENT PILES NOT VISIBLE DUE TO RIP RAP AND SOIL SLOPE

National Bridge and NC Inspection Items

Structure Number: 080011

Inspection Date: 06/02/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	4
Item 59: Superstructure	0 - 9 , N	4
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	2112	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	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	0	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	F		
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	N
Priority Maintenance Request Submitted	YES/NO	N
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: 080011

Inspection Date: 06/02/2015

Item	Superstructure - Item 59	Grade	4	Maint Code		Qty.	0
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Details CRACKING IN GIRDERS LESS THAN 1' SPACING AT SPANS 1 AND 4

Item	Substructure - Item 60	Grade	5	Maint Code		Qty.	0
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Details TIMBER CROSS CAP CRUTCH BETWEEN PILES 3 AND 4 AT BENT 1, SIMILAR BETWEEN ALL ORIGINAL PILES AT ALL INTERIOR BENTS (SHORED STRUCTURE)

Item	Approach Roadway Alignment - Item 72	Grade	8	Maint Code		Qty.	0
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Details DAMAGED GUARDRAIL AT NORTHWEST CORNER (5 FT. MAINTENANCE)

Item	Other Equipment Used	Grade	Y	Maint Code		Qty.	0
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Details BOOTS

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	2112
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Details GRAVEL ALONG LEFT CURB
GRAVEL ALONG RIGHT CURB

Item	Response to live load	Grade	F	Maint Code		Qty.	0
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Details SUBSTRUCTURE VIBRATION UNDER TRUCK LOAD



Span 4 Deck: 3 Square 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 - 16" DIAMETER PATCHES AT BENT 3 JOINT (OVER CRUTCH PILES)



Span 3 Deck: 3 Square 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 - 16" DIAMETER PATCHES AT BENT 3 (OVER CRUTCH PILES)



Span 3 Deck: 5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 2 JOINT (OVER CRUTCH PILES)



Span 2 Deck: 5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 1 (OVER CRUTCH PILES)



Span 2 Deck: 300 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. SCALING WITH EXPOSED AGGREGATE



Span 2 Deck: 5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 1 (OVER CRUTCH PILES)



Span 1 Deck: 5 Square 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. 3 - 16" DIAMETER PATCHES AT BENT 1 (OVER CRUTCH PILES)



GRAVEL ALONG LEFT CURB



GRAVEL ALONG RIGHT CURB



Span 1 Deck: 3 Square 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 - 16" DIAMETER PATCHES AT END BENT 1 (OVER CRUTCH PILES)



End Bent 1 Cap : 1 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16"
WIDE VERTICAL CRACK UNDER GIRDER 3



Span 1 Deck: 1 Square 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" DIAMETER X 1" DEEP WITH 3" EXPOSED REBAR IN RIGHT OVERHANG AT BENT 1



Span 2 Deck: 1 Square 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 4" DIAMETER X 1" DEEP IN RIGHT OVERHANG AT BENT 1



Bent 1 Pile 4: 1 Each of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in the tension zone.
1/8" VERTICAL CHECKS



TIMBER CROSS CAP CRUTCH BETWEEN PILES 3 AND 4 AT BENT 1, SIMILAR BETWEEN ALL ORIGINAL PILES AT ALL INTERIOR BENTS (SHORED STRUCTURE)



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



Bent 1 Pile 2: 1 Each of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in the tension zone.
1/8" WIDE X 3/4" DEEP VERTICAL CHECKS



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



Bent 1 Pile 1: 1 Each of Decay/Section Loss: Affects less than 10% of the member section SURFACE DECAYED 12" HIGH X 12" WIDE X 1" DEEP AND DELAMINATED 2' HIGH X 8" WIDE



Span 1 Beam 1: 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 AT BENT 1



Span 2 Beam 1: 3 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS WITH EFFLO AT 6" SPACING IN GIRDER UNDERSIDE



Span 2 Beam 2: 14 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS IN GIRDER UNDERSIDE AT 6" TO 1' SPACING



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



Bent 2 Pile 7: 1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAYED 2' HIGH X 6" WIDE X 1" DEEP WITH VEGETATION



Span 1 Deck: 1 Square 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. LEFT DECK OVERHANG SPALL 6" WIDE X 4" LONG X 3" DEEP WITH 2" EXPOSED REBAR AT BENT 1



DAMAGED GUARDRAIL AT NORTHWEST CORNER



Span 1 Right Bridge Rail: 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. RAIL END POST SPALL 10" HIGH X 8" WIDE X 2" DEEP AT SOUTHWEST CORNER



Span 4 Beam 1: 12 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
HAIRLINE TRANSVERSE CRACKS AT 6" TO 1' SPACING



Span 4 Beam 2: 19 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
HAIRLINE TRANSVERSE CRACKS AT 6" TO 1' SPACING



Span 4 Beam 3: 17 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE TRANSVERSE CRACKS AT 6" TO 1' SPACING



Bent 3 Pile 3: 1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAYED 2' HIGH X 16" WIDE X 2 1/2" DEEP



Bent 3 Pile 1: 1 Each of Decay/Section Loss: Affects less than 10% of the member section DECAYED 14" HIGH X 4" WIDE X 1 1/2" DEEP ON SPAN 3 FACE



GUARDRAIL END TERMINAL AT NORTHEAST CORNER, ALL CORNERS ARE SIMILAR



GUARDRAIL POST SPACINGS AT MID PORTION IN NORTHEAST CORNER, ALL CORNERS ARE SIMILAR



LOOKING WEST



GUARDRAIL POST SPACINGS AT BRIDGE IN NORTHEAST CORNER, ALL CORNERS ARE SIMILAR



GUARDRAIL CONNECTION AT NORTHEAST CORNER, ALL CORNERS ARE SIMILAR



DATA PLATE IN LEFT RAIL END POST AT NORTHEAST CORNER



BENT 3 STANDARD JOINT , ALL JOINTS ARE SIMILAR



LOOKING WEST, OFF BRIDGE



LOOKING EAST, OFF BRIDGE



UPSTREAM NORTH



DOWNSTREAM SOUTH



LOOKING EAST



NORTH PROFILE



END BENT 1, PILES AND CRUTCH PILES NOT VISIBLE



SOUTH END OF BENT 1 CAP



TIMBER CRUTCH BETWEEN PILES 2 AND 3 AT BENT 1 (SHORED STRUCTURE) SIMILAR AT ALL INTERIOR BENTS



TIMBER CRUTCH AT BENT 1 BETWEEN ORIGINAL PILES 1 AND 2 , (SHORED STRUCTURE) SIMILAR AT ALL INTERIOR BENTS



BENT 2



SUPERSTRUCTURE



UPSTREAM NORTH, THRU SPAN 3



DOWNSTREAM SOUTH, THRU SPAN 3



BENT 3



BENT 3 WITH TIMBER CROSS CAP CRUTES (SHORED STRUCTURE)



BENT 1, SPAN 2 SIDE



SOUTH PROFILE



END BENT 2



SOUTHEAST CORNER EARWALL WITH JOINT, ALL CORNERS ARE SIMILAR

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

Run Date: 07/14/2015

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	080011		SUFFICIENCY RATING =		4	
(8) STRUCTURE NUMBER(FEDERAL)		000000000170011		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31000530					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE	17	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED -	ELLIS CREEK			(104)HIGHWAY SYSTEM	Is not on NHS	0	
(7) FACILITY CARRIED	NC53			(26) FUNCTIONAL CLASS -	Major Collector	07	
(9) LOCATION	1.4 MI S JCT SR1332			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(16)LAT	34° 41' 40.89"	(17)LONG	78° 39' 33.07"	(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:	Concrete						
TYPE -	Tee Beam	CODE	104				
(44) STRUCTURE TYPE APPR :							
TYPE -		CODE	000				
(45) NUMBER OF SPANS IN MAIN UNIT			4	(58) DECK		4	
(46) NUMBER OF APPROACH SPANS				(59) SUPERSTRUCTURE		4	
(107)DECK STRUCTURE TYPE -	1	CODE		(60) SUBSTRUCTURE		4	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(61) CHANNEL & CHANNEL PROTECTION		7	
(A) TYPE OF WEARING SURFACE -		CODE		(62) CULVERTS		N	
(B) TYPE OF MEMBRANE	-	CODE					
(C) TYPE OF DECK PROTECTION -		CODE		LOAD RATING AND POSTING			
				(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	4	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1946	(67) STRUCTURAL EVALUATION		3	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY		2	
(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			2200	(36) TRAFFIC SAFETY FEATURES		0001	
(30) YEAR OF ADT	2013	(109) TRUCK ADT PCT	7%	(113)SCOUR CRITICAL BRIDGES		8	
(19) BYPASS OR DETOUR LENGTH			14 MI				
GEOMETRIC DATA				PROPOSED IMPROVEMENTS			
(48) LENGTH OF MAXIMUM SPAN			21 FT	(75) TYPE OF WORK -		CODE	
(49) STRUCTURE LENGTH			88 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(50)CURB OR SIDEWALK: LEFT	1.1665 FT	RIGHT	1.1665 FT	(94) BRIDGE IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			23.667 FT	(95) ROADWAY IMPROVEMENT COST			
(52) DECK WIDTH OUT TO OUT			28.25 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	4400	(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			23.667 FT	(90) INSPECTION DATE		06/02/2015	
(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: 07/14/2015

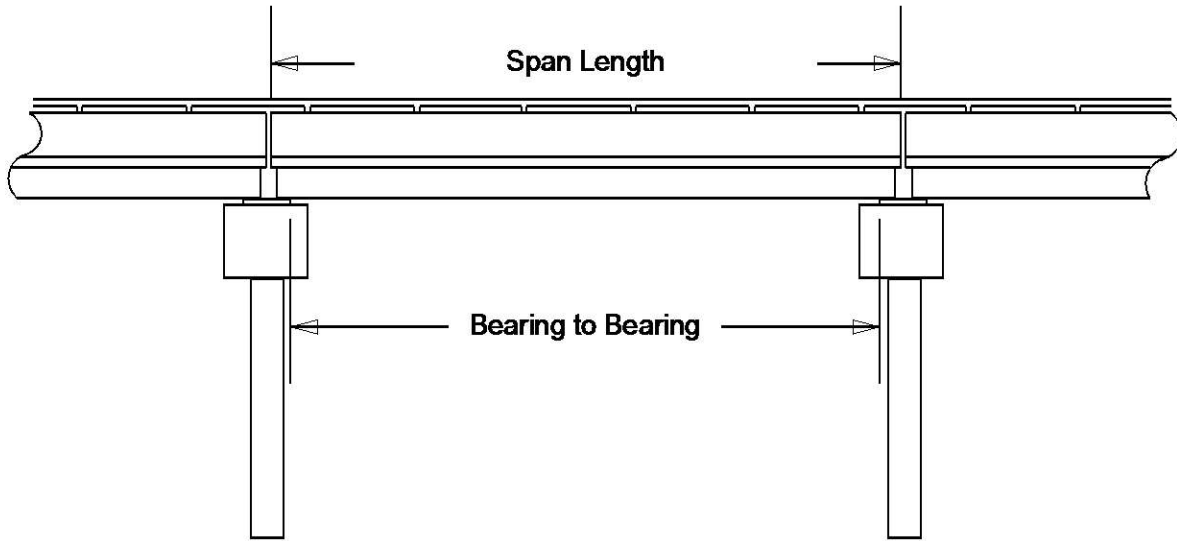
COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
BLADEN	6	3	080011	88	FEET
ROUTE CARRIED :		FEATURE INTERSECTED :			
NC53		ELLIS CREEK			
LOCATED :		BRIDGE NAME :		CITY :	
1.4 MI S JCT SR1332					
FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :	
07	FA	NFA	2200 2013	LT 181	RT 181
BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :	
1946	SHPWC	3022		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		16 FT		4 FT
SUPERSTRUCTURE : REINFORCED CONCRETE DECK GIRDERS					
SUBSTRUCTURE : EBTS&IBTS:RC CAPS/TIMBER PILES					
SPANS : 4@22'					
BEAMS OR GIRDERS : 4 LINES REINFORCED CONCRETE DECK GIRDERS 6'9CTS					
FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :			
5.5RC/NO AWS		28.25 FT			
CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
23.667 FT	26 FT	LT	1.1665 FT	RT	1.1665 FT
VERT.CL.OVER : 999.9 FT					
INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	LGW DATE
HS-1	HS-1	RCDG	SV 38		07/14/2015
SYSTEM : Primary N.C. Route			GREEN LINE ROUTE : Y		
UNDER ROUTES AND CLEARANCES					

REMARKS :

Structure Data Worksheet

Spans

County: BLADEN Structure No: 080011 Date: _____ Inspected By: RLK



Span No	Span Length	Bearing to Bearing	Comments
1	22.00FT.	19.917FT.	NBIS 83.833 FT.
2	22.00 FT.	20.833FT.	
3	22.00 FT.	20.833FT.	
4	22.00 FT.	19.917FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 080011 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: 5 Location of Highwater Mark: ON CAPS

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8	TOP OF RETAINING WALL			
1	4.1	Top of Cap			
3	5	GROUND AT CAP	3	4.2	GROUND AT CAP
9	8.6				
14.1	13.7				
21.1	15.6	BENT 1	21.1	12.3	BENT 1
30	15.3				
43.1	16.1	BENT 2	43.1	18.2	BENT 2
51	17.6	C/L OF STREAM			
63.1	15.7	WSWE			
65.1	15.4	BENT 3	65.1	13.7	BENT 3
85	5.7	GROUND AT CAP	85	3.5	TOP OF RIP RAP
86	4.1	Top of Cap			
86.5	2.8	TOP OF RETAINING WALL			

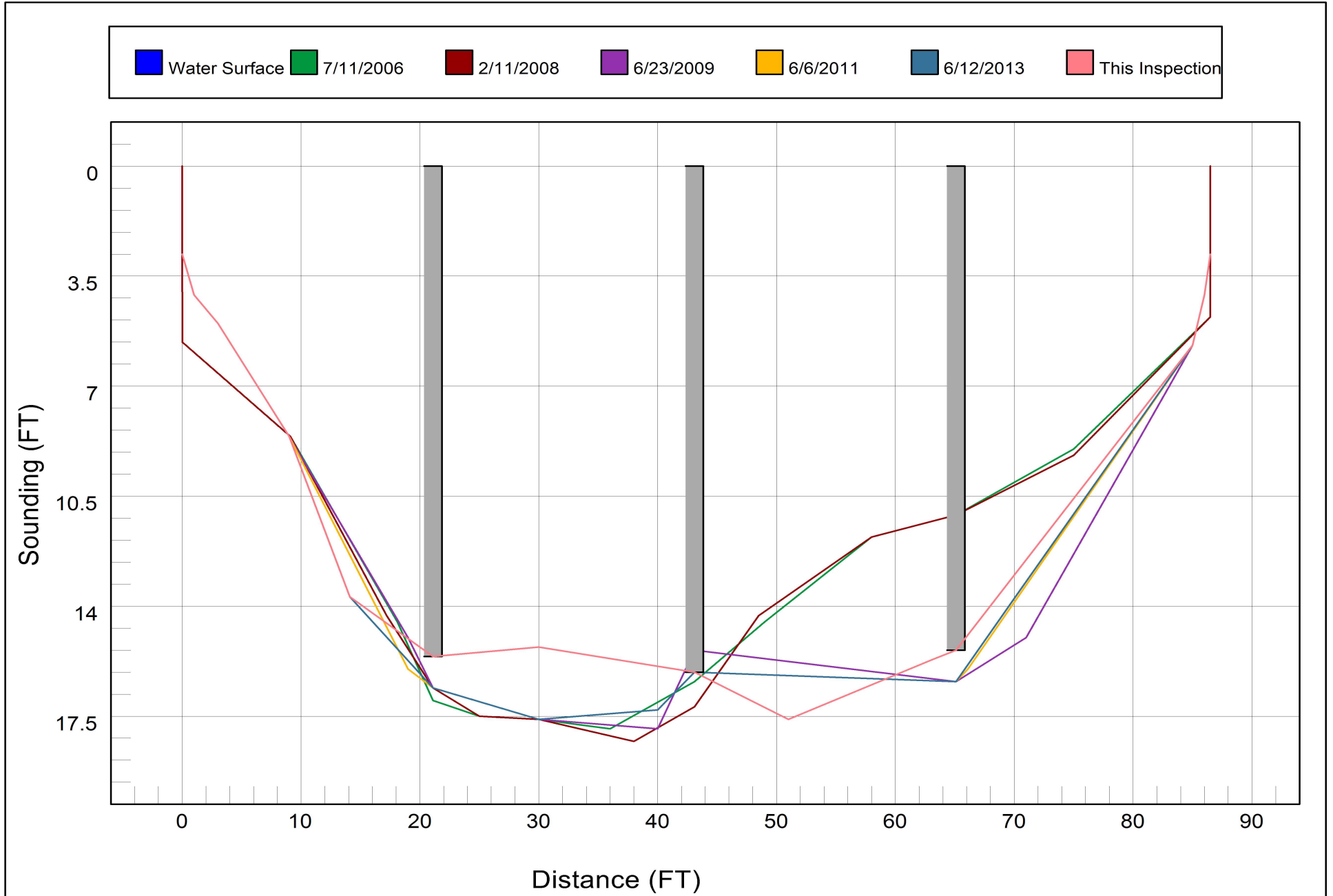
Bridge: 080011

County BLADEN

Date:

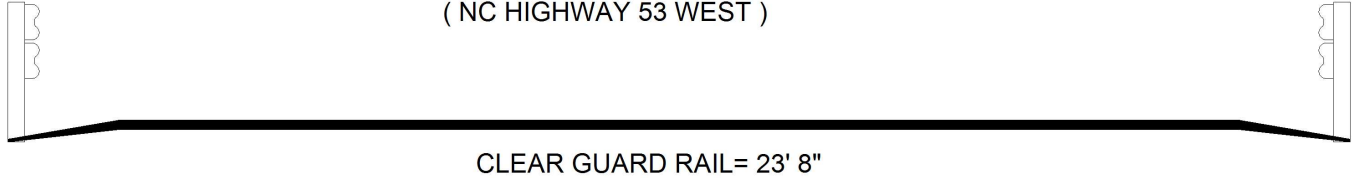
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

(NC HIGHWAY 53 WEST)



Roadway	20.00ft Wide	2 Paved Lanes	Looking East
Left Shoulder	2ft Wide	2ft Paved	
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail	2ft from road		
Right Guardrail	2ft from road		

MEASUREMENTS VERIFIED BY RLK 6/6/11

MEASUREMENTS VERIFIED BY RLK 6/12/13

MEASUREMENTS VERIFIED BY RLK 6/2/15

Title

APPROACH ROADWAY

Description

LOOKING NORTH

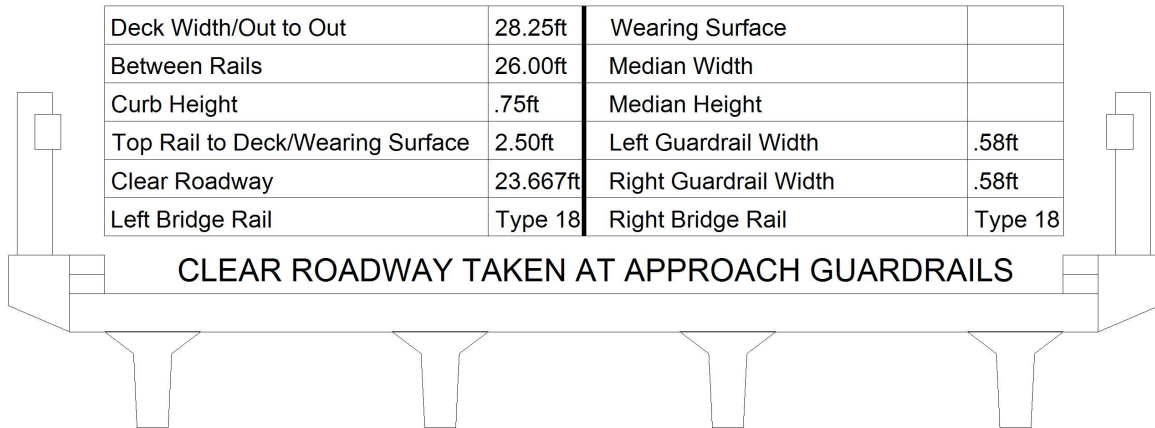
Bridge No: 080011

Drawn By: RLK

Date: 06/06/2011

File Name: S0290003707

Bridge Inspection Field Sketch

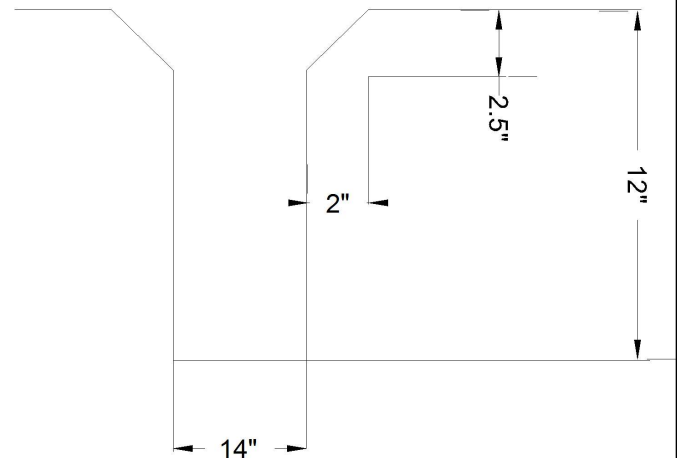


Measurements for Span #	1	SPANS 2 TO 4 SIMILAR	
Deck Thickness	.46	Left Overhang	4
Top of Rail to Bottom of Beam	3.96	Right Overhang	4

Beam No	Beam Type	Spacing	Comments
1	RC Deck Girder	6.75ft	
2	RC Deck Girder	6.75ft	
3	RC Deck Girder	6.75ft	
4	RC Deck Girder		

MEASUREMENTS VERIFIED BY RLK 6/6/11
 MEASUREMENTS VERIFIED BY RLK 6/12/13
 MEASUREMENTS REVISED BY RLK 6/2/15

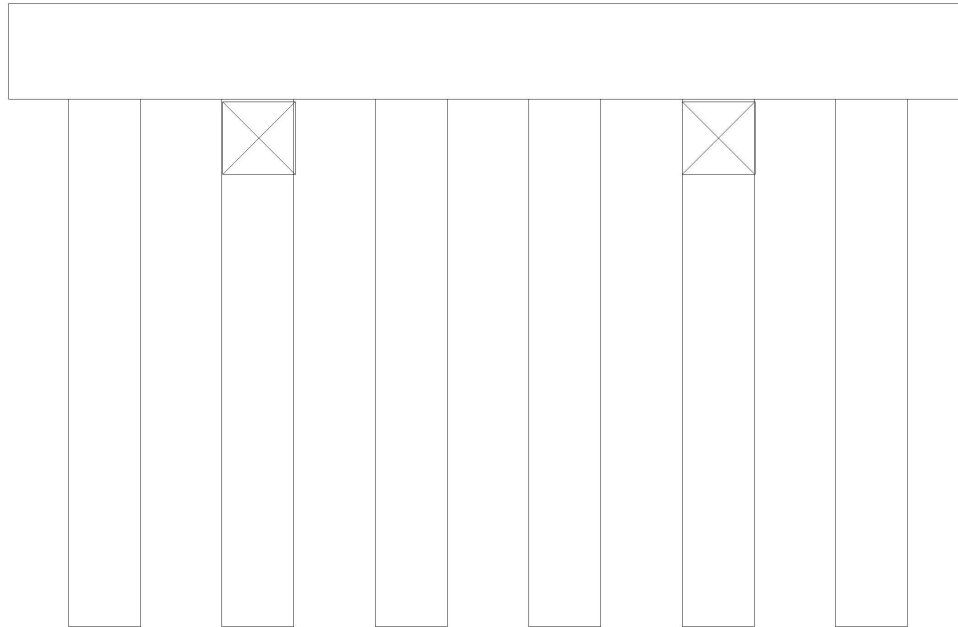
SIMILAR R.C. DECK GIRDER



CHANGED OUT TO OUT, DECK OVERHANGS, CLEAR ROADWAY 6/2/15
 MEASUREMENTS TAKEN FROM EXTERIOR R.C.RAILS

Title SUPERSTRUCTURE		Description SIMILAR SECTION	
Bridge No: 080011	Drawn By: RBH	Date: 02/05/08	File Name: S0290003708

Bridge Inspection Field Sketch



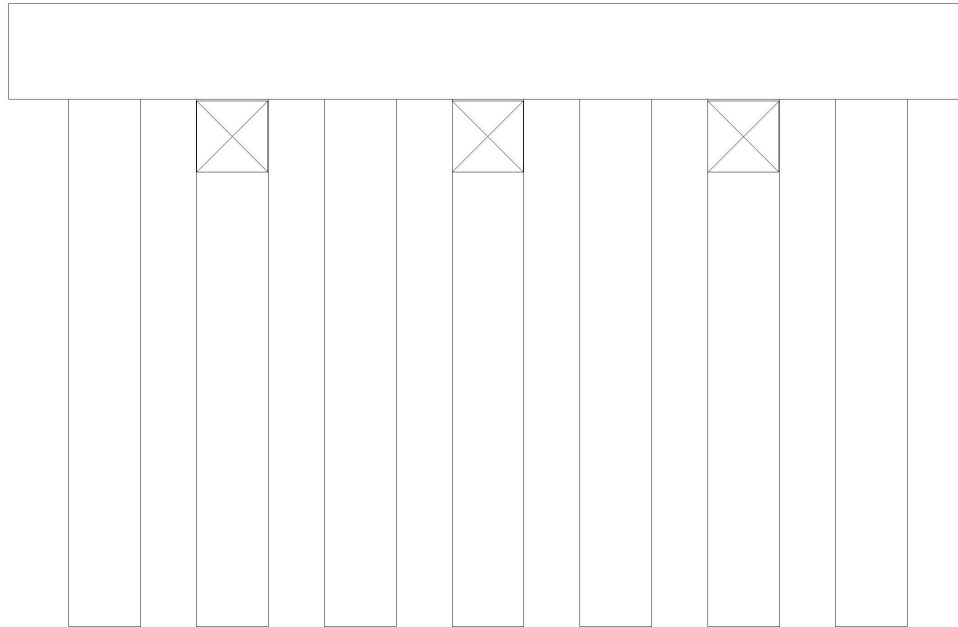
Abutment #	1	ABUTMENT 2 SIMILAR	
Cap - Cast In Place			
Cap Size	22.50ft Long	2.00ft Wide	2.00ft High
Left Overhang	1.50ft	Lt Cap/Beam Overhang	1.13ft
Right Overhang	1.50ft	Rt Cap/Beam Overhang	1.13ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	4.67		1.00		Vertical
2	Wood or Timber	Pile Bent	1.83		1.00		Vertical
3	Wood or Timber	Pile Bent	6.50		1.00		Vertical
4	Wood or Timber	Pile Bent	1.83		1.00		Vertical
5	Wood or Timber	Pile Bent	4.67		1.00		Vertical
6	Wood or Timber	Pile Bent			1.00		Vertical

END BENT PILES NOT VISIBLE DUE TO SOIL SLOPE AND RIP RAP

Title		Description	
SUBSTRUCTURE		SIMILAR END BENT	
Bridge No:	080011	Drawn By: RBH	Date: 02/05/08
		File Name:	S0290003709

Bridge Inspection Field Sketch



Bent #	1	Bents 2,3,4 similar	
Cap - Cast In Place			
Cap Size	22.67ft Long	2.00ft Wide	2.00ft High
Left Overhang	1.5ft	Lt Cap/Beam Overhang	.33ft
Right Overhang	1.5ft	Rt Cap/Beam Overhang	.33ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	3.33		1.00		Vertical
2	Wood or Timber	Pile Bent	3.17		1.00		Vertical
3	Wood or Timber	Pile Bent	3.33		1.00		Vertical
4	Wood or Timber	Pile Bent	3.17		1.00		Vertical
5	Wood or Timber	Pile Bent	3.33		1.00		Vertical
6	Wood or Timber	Pile Bent	3.33		1.00		Vertical
7	Wood or Timber	Pile Bent			1.00		Vertical

NOTE: PILES 2, 4, AND 6 ARE TIMBER CROSSCAP CRUTCHES

CRUTCH CAPS - .96' W X 1.02' HIGH ON TWO 1.00' DIAMETER TIMBER PILES AND 3.83' CENTERS

MEASUREMENTS VERIFIED BY RLK 6/6/11

MEASUREMENTS VERIFIED BY RLK 6/12/13

MEASUREMENTS VERIFIED BY RLK 6/2/15

Title

SUBSTRUCTURE 1

Description

SIMILAR INTERIOR BENT

Bridge No: 080011

Drawn By: RBH

Date: 02/05/08

File Name: S0290003710