



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **SHORED STRUCTURE**

Structure Safety Report

Routine Element Inspection

COUNTY: CHOWAN STRUCTURE NUMBER: 200024 FREQUENCY: 24 MONTHS

FACILITY CARRIED: NC32 MILE POST:

LOCATION: 0.7 MI N JCT NC37

FEATURE INTERSECTED: WARWICK SWAMP

LATITUDE: 36° 19' 48.55" LONGITUDE: 76° 38' 1.92"

SUPERSTRUCTURE: CONT.MONOLITHIC SLAB

SUBSTRUCTURE: RC ABUTS;INT.BTS:RC CAPS ON TIM.PILES;STL CRUTCH BTS ADDED

SPANS: 8@8"CONTINUOUS

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

PRESENT CONDITION: Fair INSPECTION DATE: 11/12/2014

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: 4 DELINEATORS



LOOKING NORTH

Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

INSPECTED BY Z.S. DUNLOW	SIGNATURE <i>Beckham S. Dunlow</i>	ASSISTED BY G.L. HARRINGTON
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Span Element Report

Structure Number: 200024

Inspection Date: 11/12/2014

Span Number 1

Span Length 16 Feet

Number of Slabs/Channels: 1

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
16		Reinforced Concrete Top Flange	443	443	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	16	15	0	1	0	1	3306
515	105	Steel Protective Coating	443	443	0	0	0	0	5603
215		Reinforced Concrete Abutment	33	13	20	0	0	0	3350
225		Steel Pile	2	0	2	0	0	2	3354
515	225	Steel Protective Coating	178	176	0	2	0	2	5603
231		Steel Pier Cap	36	0	36	0	0	0	3354
515	231	Steel Protective Coating	329	229	0	100	0	100	5603
331		Reinforced Concrete Bridge Railing	32	32	0	0	0	0	3318
510		Wearing Surface	420	210	35	175	0	210	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 16 Feet

Number of Slabs/Channels: 1

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
16		Reinforced Concrete Top Flange	443	443	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	16	11	0	5	0	5	3306
515	105	Steel Protective Coating	443	443	0	0	0	0	5603
225		Steel Pile	2	0	2	0	0	2	3354
515	225	Steel Protective Coating	31990	31988	0	2	0	2	5603
228		Timber Pile	6	6	0	0	0	0	3344
231		Steel Pier Cap	36	1	34	1	0	1	3354
234		Reinforced Concrete Pier Cap	28	28	0	0	0	0	3348
515	234	Steel Protective Coating	580	485	0	95	0	95	5603
331		Reinforced Concrete Bridge Railing	32	31	1	0	0	1	3318
510		Wearing Surface	420	270	0	150	0	150	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 16 Feet

Number of Slabs/Channels: 1

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
16		Reinforced Concrete Top Flange	443	443	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	16	10	5	1	0	6	3306
515	105	Steel Protective Coating	443	443	0	0	0	0	5603
225		Steel Pile	2	0	2	0	0	2	3354
515	225	Steel Protective Coating	178	176	0	2	0	2	5603
231		Steel Pier Cap	36	0	35	1	0	1	3354
515	231	Steel Protective Coating	329	249	80	0	0	80	5603
234		Reinforced Concrete Pier Cap	28	27	1	0	0	0	3348
331		Reinforced Concrete Bridge Railing	32	32	0	0	0	0	3318
510		Wearing Surface	420	220	0	200	0	200	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

Structure Number: 200024

Inspection Date: 11/12/2014

Span Number 4

Span Length 16 Feet

Number of Slabs/Channels: 1

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
16		Reinforced Concrete Top Flange	443	443	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	16	6	4	6	0	10	3306
515	105	Steel Protective Coating	443	443	0	0	0	0	5603
215		Reinforced Concrete Abutment	33	33	0	0	0	0	3350
225		Steel Pile	2	0	2	0	0	2	3354
228		Timber Pile	6	5	1	0	0	0	3344
515	228	Steel Protective Coating	31990	31988	0	2	0	2	5603
231		Steel Pier Cap	36	30	0	6	0	6	3354
234		Reinforced Concrete Pier Cap	28	28	0	0	0	0	3348
515	234	Steel Protective Coating	580	440	140	0	0	140	5603
331		Reinforced Concrete Bridge Railing	32	32	0	0	0	0	3318
510		Wearing Surface	420	255	65	100	0	165	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: 200024

Inspection Date: 11/12/2014

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	331	Reinforced Concrete Bridge Railing	16	16	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	16	16	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	420	210	35	175	0	210	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	443	443	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	16	15	0	1	0	1	3306	☐ Requested
Protective System		515	Steel Protective Coating	443	443	0	0	0	0	3342	

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	331	Reinforced Concrete Bridge Railing	16	15	1	0	0	1	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	16	16	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	420	270	0	150	0	150	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	443	443	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	16	11	0	5	0	5	3306	☐ Requested
Protective System		515	Steel Protective Coating	443	443	0	0	0	0	3342	

Structure Number: 200024

Inspection Date: 11/12/2014

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	16	16	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	16	16	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	420	220	0	200	0	200	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	443	443	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	16	10	5	1	0	6	3306	☐ Requested
Protective System		515	Steel Protective Coating	443	443	0	0	0	0	3342	

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
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	16	16	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	16	16	0	0	0	0	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	420	255	65	100	0	165	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	443	443	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	16	6	4	6	0	10	3306	☐ Requested
Protective System		515	Steel Protective Coating	443	443	0	0	0	0	3342	

Superstructure Element Defect Descriptions

Structure Number: 200024

Inspection Date: 11/12/2014

Span Number 1

Span	1	Bridge Rail	1	Component Name:	Concrete Railing
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Element: 331 Name Reinforced Concrete Bridge Ra Qty: 16 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

5 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Span	1	Wearing Surfaces	Component Name:	Asphalt Wearing Surface
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Element: 510 Name Wearing Surface Qty: 420 Lvl 2: 35 Lvl 3: 175 Lvl 4: 0 Maint. Qty: 210

Defect Description:

175 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.

35 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Span	1	Beam	1	Component Name:	Reinforced Concrete Cored Slab
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Element: 105 Name Reinforced Concrete Closed W Qty: 16 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 1

Defect Description:

1 Feet of Delamination/Spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Does not warrant structural review.

Span Number 2

Span	2	Bridge Rail	1	Component Name:	Concrete Railing
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Element: 331 Name Reinforced Concrete Bridge Ra Qty: 16 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 1

Defect Description:

1 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Span	2	Bridge Rail	2	Component Name:	Concrete Railing
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Element: 331 Name Reinforced Concrete Bridge Ra Qty: 16 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

3 Feet of Cracking (RC and Other): Width less than 0.012 in. or spacing greater than 3.0 ft.

Span	2	Wearing Surfaces	Component Name:	Asphalt Wearing Surface
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Element: 510 Name Wearing Surface Qty: 420 Lvl 2: 0 Lvl 3: 150 Lvl 4: 0 Maint. Qty: 150

Defect Description:

150 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.

Span	2	Beam	1	Component Name:	Reinforced Concrete Cored Slab
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Element: 105 Name Reinforced Concrete Closed W Qty: 16 Lvl 2: 0 Lvl 3: 5 Lvl 4: 0 Maint. Qty: 5

Defect Description:

4 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. on right side.

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. Area is 6" long, 4" tall, and 1 1/4" deep over span 2 crutch bent.

Span Number 3

Span	3	Bridge Rail	1	Component Name:	Concrete Railing
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Element: 331 Name Reinforced Concrete Bridge Ra Qty: 16 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

1 Feet of Cracking (RC and Other): Width less than 0.012 in. or spacing greater than 3.0 ft.

Span	3	Bridge Rail	2	Component Name:	Concrete Railing
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Element: 331 Name Reinforced Concrete Bridge Ra Qty: 16 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

Structure Number: 200024

Inspection Date: 11/12/2014

2 Feet of Cracking (RC and Other): Width less than 0.012 in. or spacing greater than 3.0 ft.

Span	3	Wearing Surfaces			Component Name:		Asphalt Wearing Surface							
Element:	510	Name Wearing Surface			Qty:	420	Lvl 2:	0	Lvl 3	200	Lvl 4	0	Maint. Qty	200
Defect Description:														

200 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.

Span	3	Beam	1	Component Name:		Reinforced Concrete Cored Slab							
Element:	105	Name	Reinforced Concrete Closed W	Qty:	16	Lvl 2:	5	Lvl 3	1	Lvl 4	0	Maint. Qty	6
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. Area is 1' long, 1' tall, and 1" deep over span 3 crutch bent on right side.

1 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. on right side in span 3, north half.

3 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 on left side.

1 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. in right side.

Span Number 4

Span	4	Bridge Rail	1	Component Name:		Concrete Railing							
Element:	331	Name	Reinforced Concrete Bridge Ra	Qty:	16	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:													

5 Feet of Cracking (RC and Other): Width less than 0.012 in. or spacing greater than 3.0 ft.

Span	4	Bridge Rail	2	Component Name:	Concrete Railing							
Element:	331	Name Reinforced Concrete Bridge Ra	Qty:	16	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

1 Feet of Cracking (RC and Other): Width less than 0.012 in. or spacing greater than 3.0 ft.

Span	4	Wearing Surfaces			Component Name:		Asphalt Wearing Surface						
Element:	510	Name Wearing Surface			Qty:	420	Lvl 2:	65	Lvl 3	100	Lvl 4	0 Maint. Qty	165
Defect Description:													

100 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.

65 Square Feet of Crack (Wearing Surface): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. in both lanes.

Span	4	Beam	1	Component Name:	Reinforced Concrete Cored Slab								
Element:	105	Name	Reinforced Concrete Closed W	Qty:	16	Lvl 2:	4	Lvl 3	6	Lvl 4	0	Maint. Qty	10
Defect Description:													

6 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. on right side.

4 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. on both sides.

Substructure Detailed Element Quantities

Structure Number: 200024
End Bent 1

Inspection Date: 11/12/2014

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
☒ Abutments	1	215	Reinforced Concrete Abutment	33	13	20	0	0	0	3350	☐ Requested

Span 1 Crutch Bent

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	231	Steel Pier Cap	36	0	36	0	0	0	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	229	0	100	0	100	3342	☐ Requested
☒ Piles and Columns	1	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	1	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ Requested
☒ Piles and Columns	2	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	2	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ 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	28	28	0	0	0	0	3348	☐ Requested
☐ Caps	1	515	Steel Protective Coating	251	251	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	1	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	2	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	3	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	4	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	5	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	6	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested

Span 2 Crutch Bent

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	231	Steel Pier Cap	36	1	34	1	0	1	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	234	0	95	0	95	3342	☐ Requested
☒ Piles and Columns	1	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	2	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	2	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ Requested
☒ Piles and Columns	1	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ 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	28	27	1	0	0	0	3348	☐ Requested

Structure Number: 200024

Inspection Date: 11/12/2014

Span 3 Crutch Bent

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	231	Steel Pier Cap	36	0	35	1	0	1	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	249	80	0	0	80	3342	☐ Requested
☒ Piles and Columns	1	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	1	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ Requested
☒ Piles and Columns	2	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	2	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ 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	28	28	0	0	0	0	3348	☐ Requested
☐ Caps	1	515	Steel Protective Coating	251	251	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	1	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	2	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	0	3344	☐ Requested
☐ Piles and Columns	3	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	4	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	5	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☐ Piles and Columns	6	515	Steel Protective Coating	5302	5302	0	0	0	0	3342	☐ 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	215	Reinforced Concrete Abutment	33	33	0	0	0	0	3350	☐ Requested

Structure Number: 200024

Inspection Date: 11/12/2014

Span 4 Crutch Bent

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	231	Steel Pier Cap	36	30	0	6	0	6	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	189	140	0	0	140	3342	☐ Requested
☒ Piles and Columns	1	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	1	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ Requested
☒ Piles and Columns	2	225	Steel Pile	1	0	1	0	0	1	3354	☐ Requested
☒ Piles and Columns	2	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 200024

Inspection Date: 11/12/2014

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 215 Name Reinforced Concrete Abutment Qty: 33 Lvl 2: 20 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

20 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete at waterline.

Span 1	Row 1	Caps	1
--------	-------	------	---

Crutch Bent

Element: 231 Name Steel Pier Cap Qty: 36 Lvl 2: 36 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

36 Feet of Corrosion: Corrosion of the steel has initiated.

100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1	Row 1	Piles and Columns	1
--------	-------	-------------------	---

Crutch Bent

Element: 225 Name Steel Pile Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1	Row 1	Piles and Columns	2
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Crutch Bent

Element: 225 Name Steel Pile Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2	Row 1	Caps	1
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Crutch Bent

Element: 231 Name Steel Pier Cap Qty: 36 Lvl 2: 34 Lvl 3: 1 Lvl 4: 0 Maint. Qty 1

Defect Description:

34 Feet of Corrosion: Corrosion of the steel has initiated.

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review in bottom web over pile 2 in south face.

95 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2	Row 1	Piles and Columns	1
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Crutch Bent

Element: 225 Name Steel Pile Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 2	Row 1	Piles and Columns	2
--------	-------	-------------------	---

Crutch Bent

Element: 225 Name Steel Pile Qty: 1 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty 1

Defect Description:

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3	Row 1	Caps	1
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Crutch Bent

Element: 231 Name Steel Pier Cap Qty: 36 Lvl 2: 35 Lvl 3: 1 Lvl 4: 0 Maint. Qty 1

Defect Description:

35 Feet of Corrosion: Corrosion of the steel has initiated.

1 Feet of Corrosion: Section loss is evident over pile 2 but does not warrant structural review.

80 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 3	Row 1	Piles and Columns	1								
Crutch Bent											
Element: 225	Name	Steel Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty	1
Defect Description:											

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3	Row 1	Piles and Columns	2								
Crutch Bent											
Element: 225	Name	Steel Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty	1
Defect Description:											

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Bent 2	Row 1	Caps	1									
Element: 234	Name	Reinforced Concrete Pier Cap	Qty:	28	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

1 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.

Bent 3	Row 1	Piles and Columns	3									
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 (1/2" deep at waterline)

Span 4	Row 1	Caps	1								
Crutch Bent											
Element: 231	Name	Steel Pier Cap	Qty:	36	Lvl 2:	0	Lvl 3	6	Lvl 4	0 Maint. Qty	6
Defect Description:											

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review in bottom of webs.

140 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 4	Row 1	Piles and Columns	1								
Crutch Bent											
Element: 225	Name	Steel Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty	1
Defect Description:											

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4	Row 1	Piles and Columns	2								
Crutch Bent											
Element: 225	Name	Steel Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty	1
Defect Description:											

1 Each of Corrosion: Corrosion of the steel has initiated.

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

National Bridge and NC Inspection Items

Structure Number: 200024

Inspection Date: 11/12/2014

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	5
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	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	30	3376
Drainage System	G, F, P, or C	N	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	F	0	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	F	2	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	8		
Estimated Remaining Life	0 - 100 Years	20		

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	3
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 200024

Inspection Date: 11/12/2014

Item	Approach Roadway Alignment - Item 72	Grade	8	Maint Code	Qty.	0
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Details Approach at End Bent 1 settled 1/2" in left lane.

Item	Presently Posted	Grade	N	Maint Code	Qty.	0
------	------------------	-------	---	------------	------	---

Details Not posted.

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	30
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Details TRASH AND DEBRIS ADJACENT CURBS.

Item	Drift	Grade	F	Maint Code	3366	Qty.	2
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Details Drift blocking spans 1, 2, and 3.

Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	0
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Details Wings soft in areas.



TRASH AND DEBRIS ADJACENT CURBS.



Span 1 Wearing Surface: 175 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.



Span 2 Wearing Surface: 150 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.



Span 3 Wearing Surface: 200 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.



Span 4 Wearing Surface: 100 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.



End Bent 1 Abutment/Backwall : 20 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete at waterline.



Span 1 Channel/Slab 1: 1 Feet of Delamination/Spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Does not warrant structural review.



Bent 1 Cap : 36 Feet of Corrosion: Corrosion of the steel has initiated.



Bent 1 Pile 1: 1 Each of Corrosion: Corrosion of the steel has initiated.



Bent 1 Pile 2: 1 Each of Corrosion: Corrosion of the steel has initiated.



TRASH AND DEBRIS in stream in spans 1, 2, and 3.



Span 2 Channel/Slab 1: 4 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. on right side.



Span 2 Channel/Slab 1: 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. Area is 6" long, 4" tall, and 1 1/4" deep over span 2 crutch bent.



Bent 1 Cap : 34 Feet of Corrosion: Corrosion of the steel has initiated.



Bent 1 Cap : 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review in bottom web over pile 2 in south face.



Bent 1 Pile 2: 1 Each of Corrosion: Corrosion of the steel has initiated.



Bent 1 Pile 1: 1 Each of Corrosion: Corrosion of the steel has initiated.



Bent 2 Cap : 1 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.



Span 3 Channel/Slab 1: 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. Area is 1' long, 1' tall, and 1" deep over span 3 crutch bent on right side.



Span 3 Channel/Slab 1: 1 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. on right side in span 3, north half.



Bent 1 Cap : 35 Feet of Corrosion: Corrosion of the steel has initiated.



Bent 1 Cap : 1 Feet of Corrosion: Section loss is evident over pile 2 but does not warrant structural review.



Bent 1 Pile 2: 1 Each of Corrosion: Corrosion of the steel has initiated.



Bent 1 Pile 1: 1 Each of Corrosion:. Corrosion of the steel has initiated.



Span 3 Channel/Slab 1: 3 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 on left side.



Span 3 Channel/Slab 1: 1 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. in right side.



Span 4 Channel/Slab 1: 6 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. on right side.



Span 4 Channel/Slab 1: 4 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.



Bent 1 Cap : 6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review in bottom of webs.



Bent 1 Pile 2: 1 Each of Corrosion: Corrosion of the steel has initiated.



Bent 1 Pile 1: 1 Each of Corrosion: Corrosion of the steel has initiated.



LOOKING NORTH



ROADWAY APPROACH



WEARING SURFACE



WEARING SURFACE



LOOKING WEST DOWNSTREAM



LOOKING EAST UPSTREAM



LOOKING SOUTH



END BENT 2



BENT 3



PIER 2



BENT 1



EAST SIDE



WEST SIDE



END BENT 1



Approach at End Bent 1 settled 1/2" in left lane.



Span 1 crutch bent.



crutch bent in span 1 have 4' of bearing. others similar.



span 2 crutch bent



span 3 crutch bent

Run Date: 03/18/2015

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	200024	SUFFICIENCY RATING =	45.93			
(8) STRUCTURE NUMBER(FEDERAL)	000000000410024		STATUS =	Functionally Obsolete			
(5) INVENTORY ROUTE (ON/UNDER) - ON	31000320						
(2) STATE HIGHWAY DEPARTMENT DISTRICT	3		CLASSIFICATION	CODE			
(3) COUNTY CODE	41	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -	YES		
(6) FEATURE INTERSECTED -	WARWICK CREEK		(104)HIGHWAY SYSTEM	Is not on NHS	0		
(7) FACILITY CARRIED	NC32		(26) FUNCTIONAL CLASS -	Minor Arterial	06		
(9) LOCATION	0.7 MI N. OF JCT NC37		(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0		
(11)MILEPOINT	0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N		
(16)LAT	36° 19' 48.55"	(17)LONG	76° 38' 1.92"	(102)DIRECTION OF TRAFFIC -	2-way Traffic	2	
(98)BORDER BRIDGE STATE CODE		PCT SHARE	(103)TEMPORARY STRUCTURE -				
(99)BORDER BRIDGE STRUCTURE NO			(110)DESIGNATED NATIONAL NETWORK -	On the National Network	1		
			(20) TOLL	On Free Road	3		
STRUCTURE TYPE AND MATERIAL			(31) MAINTAIN -	State Highway Agency	01		
(43) STRUCTURE TYPE MAIN:	Concrete continuous		(22) OWNER -	State Highway Agency	01		
TYPE -	Slab	CODE	201	(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
(44) STRUCTURE TYPE APPR :							
TYPE -		CODE	000	CONDITION	CODE		
(45) NUMBER OF SPANS IN MAIN UNIT	8		(58) DECK		5		
(46) NUMBER OF APPROACH SPANS			(59) SUPERSTRUCTURE		5		
(107)DECK STRUCTURE TYPE -	1	CODE	(60) SUBSTRUCTURE		5		
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(61) CHANNEL & CHANNEL PROTECTION		5		
(A) TYPE OF WEARING SURFACE -		CODE	(62) CULVERTS		N		
(B) TYPE OF MEMBRANE	-	CODE					
(C) TYPE OF DECK PROTECTION -		CODE	LOAD RATING AND POSTING	CODE			
			(31) DESIGN LOAD	H 15	2		
AGE AND SERVICE			(63) OPERATING RATING METHOD -	Load Factor	1		
(27) YEAR BUILT	1923		(64) OPERATING RATING -	HS-16	28		
(106)YEAR RECONSTRUCTED	1952		(65) INVENTORY RATING METHOD -	Load Factor	1		
(42) TYPE OF SERVICE : ON -	Highway		(66) INVENTORY RATING -	HS-9	17		
UNDER -	Waterway	CODE	15	(70) BRIDGE POSTING -	No Posting Required	5	
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE	0	(41) STRUCTURE OPEN, POSTED ,OR CLOSED		A	
(29) AVERAGE DAILY TRAFFIC	2200		DESCRIPTION -	Open, No Restriction			
(30) YEAR OF ADT	2014	(109) TRUCK ADT PCT	8%	APPRAISAL	CODE		
(19) BYPASS OR DETOUR LENGTH	8 MI		(67) STRUCTURAL EVALUATION		4		
GEOMETRIC DATA			(68) DECK GEOMETRY		3		
(48) LENGTH OF MAXIMUM SPAN	8 FT		(69) UNDERCLEARANCES,VERTI & HORIZ		N		
(49) STRUCTURE LENGTH	64 FT		(71) WATERWAY ADEQUACY		7		
(50)CURB OR SIDEWALK: LEFT	1.5415 FT	RIGHT	1.5415 FT	(72) APPROACH ROADWAY ALIGNMENT		8	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	26.25 FT		(36) TRAFFIC SAFETY FEATURES		0000		
(52) DECK WIDTH OUT TO OUT	27.667 FT		(113)SCOUR CRITICAL BRIDGES		5		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	20 FT		PROPOSED IMPROVEMENTS				
(33) BRIDGE MEDIAN -	No Median	CODE	0	(75) TYPE OF WORK -	CODE		
(34) SKEW	0°	(35) STRUCTURE FLARED	0	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT		(94) BRIDGE IMPROVEMENT COST				
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	26.25 FT		(95) ROADWAY IMPROVEMENT COST				
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT		(96) TOTAL PROJECT COST				
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad	0 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE				
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad	000 FT	(114)FUTURE ADT	4400	(115) YEAR FUTURE ADT	2025	
(56) MIN LAT UNDERCLEAR LT REF -	000 FT		INSPECTIONS				
NAVIGATION DATA			(90) INSPECTION DATE		11/12/2014		
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0	(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE		
(111)PIER PROTECTION -		CODE		A) FRACTURE CRIT DETAIL -	NO	A)	
(39) NAVIGATION VERTICAL CLEARANCE			0	B) UNDERWATER INSP -	YES 48Mo	B)	02/13/2014
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		C) OTHER SPECIAL INSP	NO	C)	
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		SCOUR			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 03/18/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
CHOWAN	1	3	200024	64	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
NC32	WARWICK CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.7 MI N. OF JCT NC37		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
06	FA	NFA	2200 2014	LT 141 RT 141

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1923	SHPWC	1143	264 (4)	H 15

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
1952	SHPWC	1143	TAN	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		10 FT		3		FT

SUPERSTRUCTURE :	CONT.MONOLITHIC SLAB
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SUBSTRUCTURE :	RC ABUTS;INT.BTS:RC CAPS ON TIM.PILES;STL CRUTCH BTS ADDED
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SPANS :	8@8'CONTINUOUS
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BEAMS OR GIRDERS :	CONT.MONOLITHIC SLAB
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
MON SLAB/2 AWS		27.667 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
26.25 FT	29.333 FT	LT 1.5415 FT RT 1.5415 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		DATE
HS-9	HS-16	mono. slab	SV TTST		03/30/1995

SYSTEM :	GREEN LINE ROUTE :
Primary N.C. Route	N

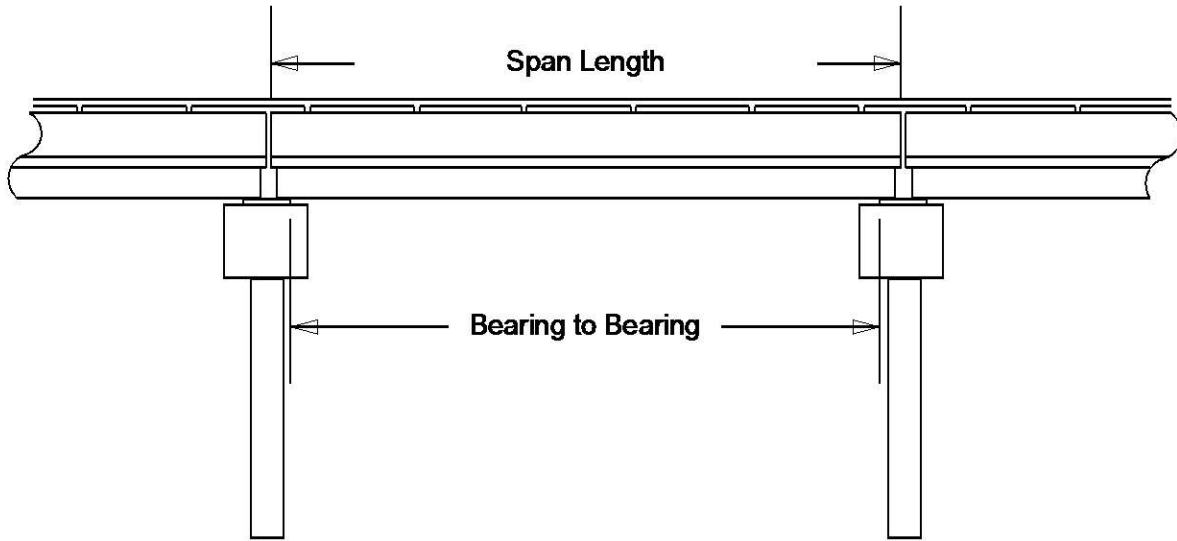
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: CHOWAN Structure No: 200024 Date: _____ Inspected By: ZSD



Span No	Span Length	Bearing to Bearing	Comments
1	8'	8'	NBIS STRUCTURE LENGTH - 56'
2	8'	7'	
3	8'	8'	
4	8'	7'	
5	8'	8'	
6	8'	7'	
7	8'	8'	
8	8'	7'	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 200024 County: CHOWAN Date: _____ By: ZSD

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	4	TOP OF CAP			
2	7.3	ABUTMENT 1	2	10	ABUTMENT 1
8	9.4	WSWE			
10	10.4	BENT 1	10	10.9	BENT1
14	10	GROUND			
19	12	BENT2	19	10.5	BENT 2
27	12.7	BENT3	27	9.7	BENT 3
35	10.5	BENT 4	35	9.1	BENT 4
43	10	BENT 5	43	9	BENT 5
51	9.3	BENT6	51	9	BENT 6
57	9.5	GROUND			
58	9.4	WSWE			
60	8.9	BENT 7	60	8.7	BENT 7
67	4	TOP OF CAP	67	8	ABUTMENT 2
67	7.6	ABUTMENT 2			

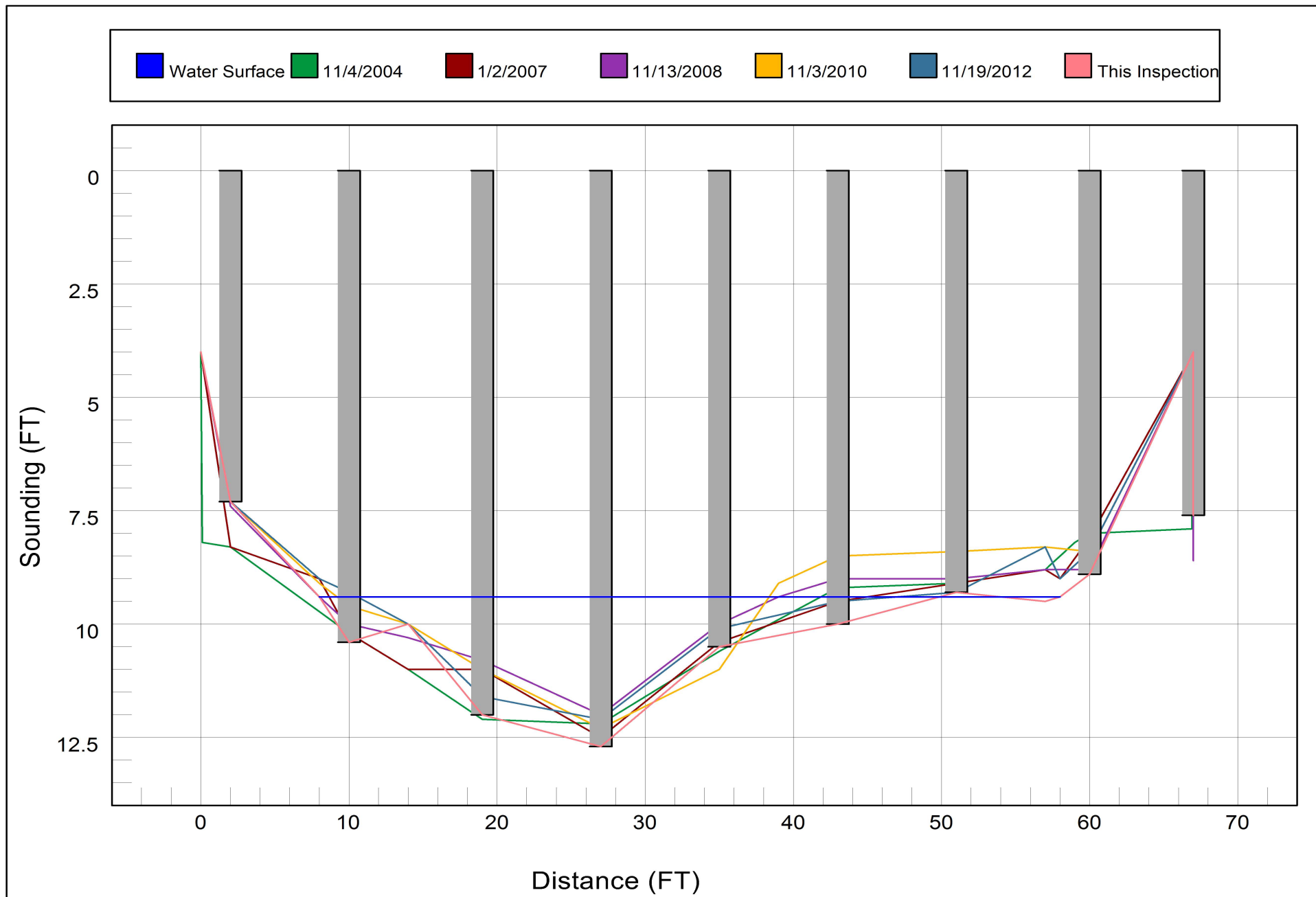
Bridge: 200024

County CHOWAN

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	8ft Wide		8ft Unpaved
Right Shoulder	8ft Wide		8ft Unpaved
Left Guardrail			
Right Guardrail			

11/12/14. ZSD

Title

APPROACH ROADWAY

Description

APPROACH ROADWAY

Bridge No: 200024

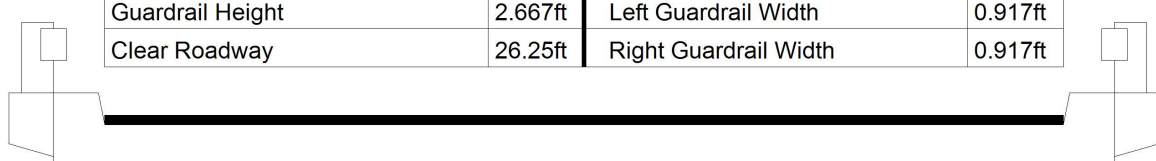
Drawn By GLH

Date: 11/19/2012

File Name: S0034000127

Bridge Inspection Field Sketch

Out to Out	27.667ft	Wearing Surface	0.167ft
Between Rails	29.333ft	Median Width	
Curb Height	0.667ft	Median Height	
Guardrail Height	2.667ft	Left Guardrail Width	0.917ft
Clear Roadway	26.25ft	Right Guardrail Width	0.917ft



Measurements for Span #	1		
Deck Thickness	1	Left Overhang	
Top of Rail to Bottom of Beam	4.583	Right Overhang	

11/12/14. ZSD

Title

TYPICAL SECTION

Description

TYPICAL SECTION

Bridge No: 200024

Drawn By: GLH

Date: 11/19/2012

File Name: S0034000128

Bridge Inspection Field Sketch



Bent #	2	Bents 6 similar	
Cap - Pre-Cast			
Cap Size	27.833ft Long	2.25ft Wide	2.083ft High
Left Overhang	0.833ft		
Right Overhang	1.5ft		

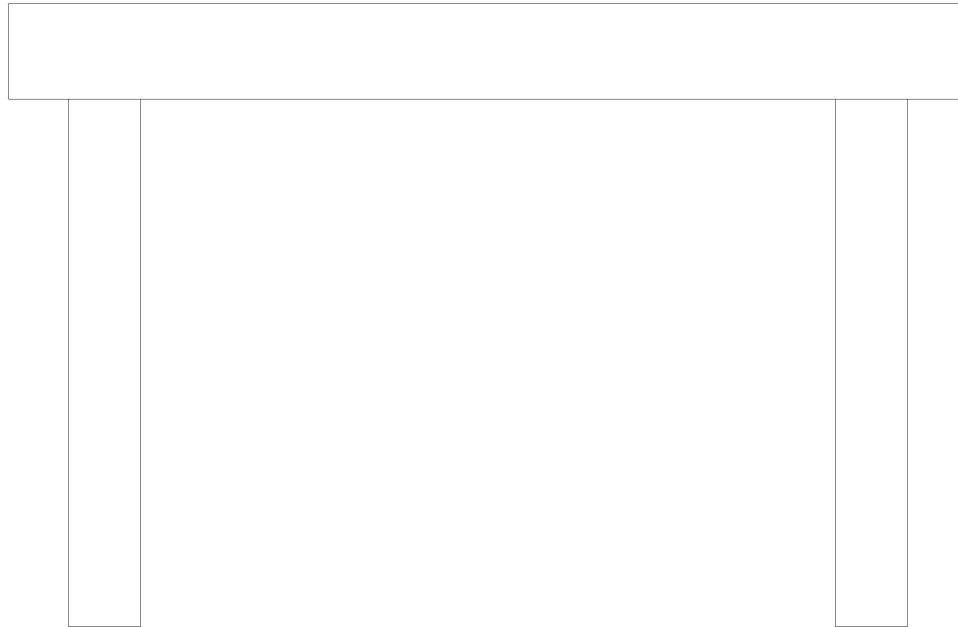
Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	4.5 ft		1.250 ft		Vertical
2	Wood or Timber	Pile Bent	5 ft		1.250 ft		Vertical
3	Wood or Timber	Pile Bent	5 ft		1.250 ft		Vertical
4	Wood or Timber	Pile Bent	5 ft		1.250 ft		Vertical
5	Wood or Timber	Pile Bent	6 ft		1.250 ft		Vertical
6	Wood or Timber	Pile Bent			1.250 ft		Vertical

NOTE- STRUCTURE HAS RC ABUTMENTS AT EACH END.

11/12/14. ZSD

Title BENT 2 SUBSTRUCTURE		Description PILE DIAGRAM FOR BENT 2 AND BENT 6	
Bridge No: 200024	Drawn By: GLH	Date: 11/19/2012	File Name: S0034000129

Bridge Inspection Field Sketch



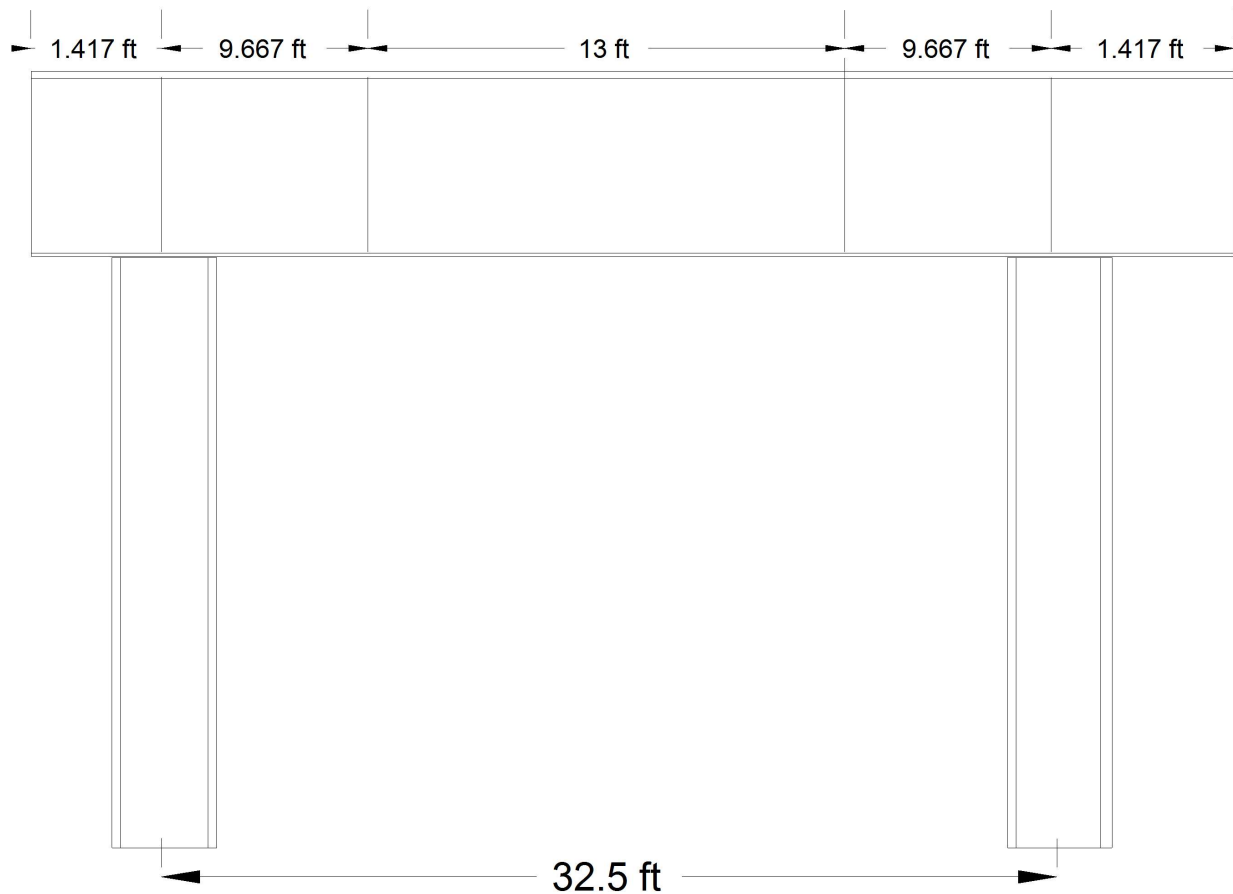
Bent #	1	Bents 3,5,7 similar	
Cap - Beam Type (Wood or Steel)			
Cap Size	35.5ft Long	0.958ft Wide	2.75ft High
Left Overhang	1.5ft		
Right Overhang	1.5ft		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Steel	Pile Bent	32.5 ft		1 ft		Vertical
2	Steel	Pile Bent			1 ft		Vertical

11/12/14. ZSD

Title BENT 1 SUBSTRUCTURE		Description PILE DIAGRAM FOR BENTS 1 3 5 A ND 7	
Bridge No: 200024	Drawn By: GLH	Date: 11/19/2012	File Name: S0034000130

Bridge Inspection Field Sketch



11/12/14. ZSD

Title

STEEL CAP STIFFENER CENTERS

Description

CENTERS FOR STIFFENERS OF STEEL CAPS AT BENTS 1,3,5 AND 7

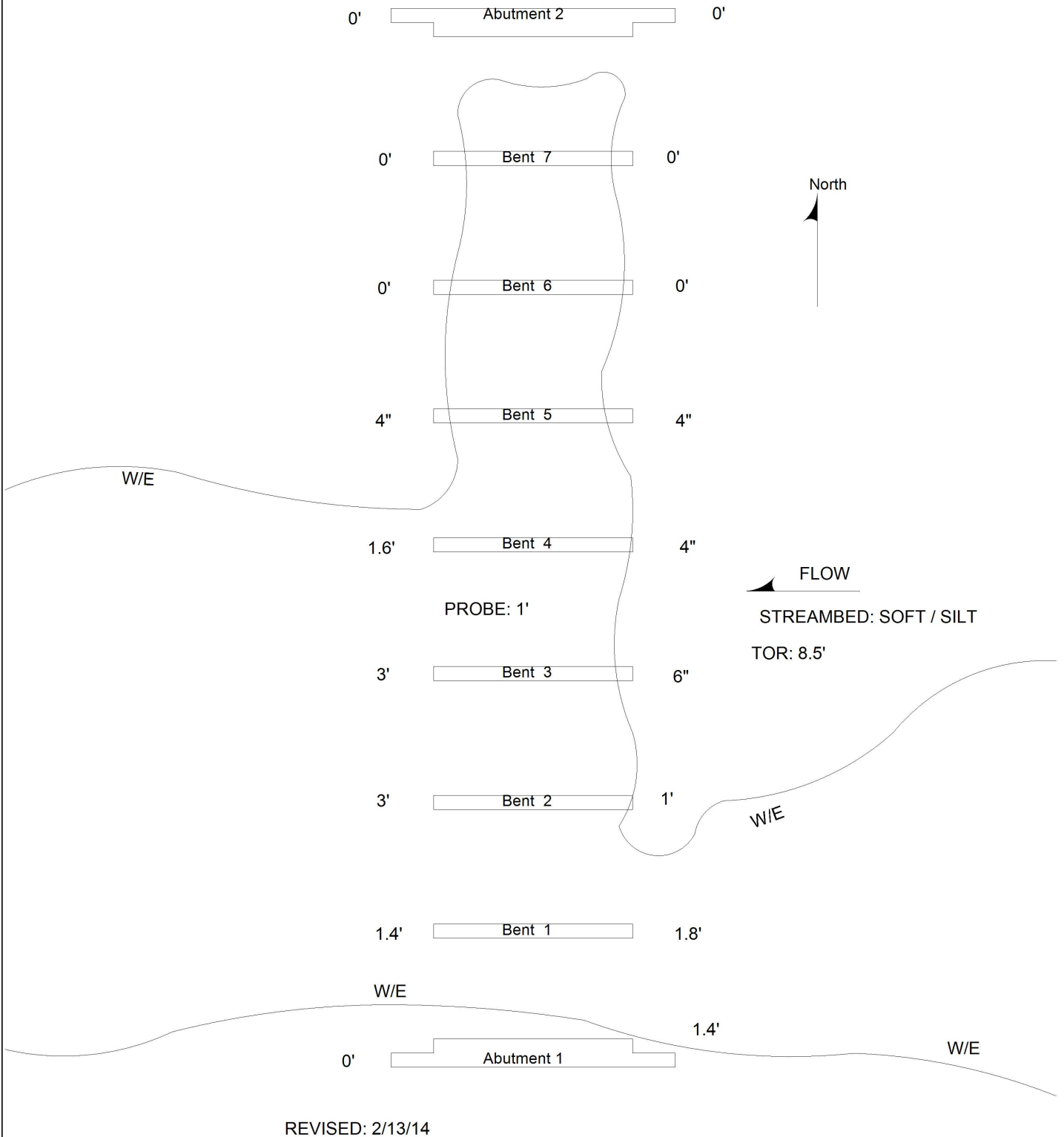
Bridge No: 200024

Drawn By: GLH

Date: 11/19/2012

File Name: S0034000131

Bridge Inspection Field Sketch



Title

Chowan 24 Plan View

Description

Channel Plan View

Bridge No: 200024

Drawn By: BK

Date: 03/07/2006

File Name: S0170000066