



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE ISSUED (PILE)**

Structure Safety Report

Routine Element Inspection

COUNTY: CHOWAN STRUCTURE NUMBER: 200020 FREQUENCY: 24 MONTHS

FACILITY CARRIED: NC32 MILE POST:

LOCATION: 0.3 MI S JCT SR 1230.

FEATURE INTERSECTED: DILLARD CREEK

LATITUDE: 36° 14' 37.97" LONGITUDE: 76° 39' 18"

SUPERSTRUCTURE: MONOLITHIC SLAB

SUBSTRUCTURE: ABUTS:RC,BTS1&3RC CAP/TIM.PILE;BTS2&4:RC PIER;STL.CRUTCH BTS

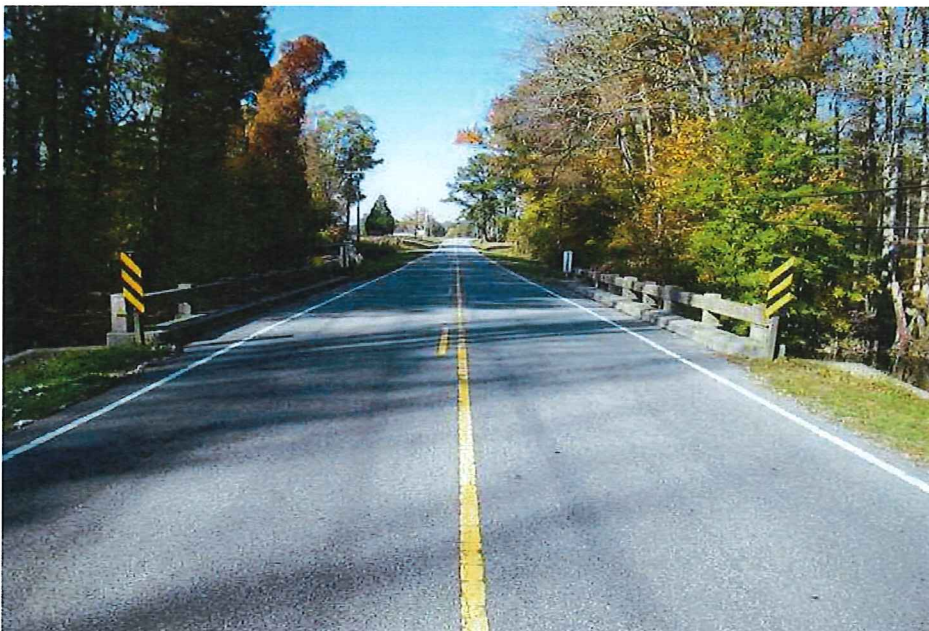
SPANS: 8@7"CONTINUOUS

☐ 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

Z.S. Dunlow

ASSISTED BY G.L. HARRINGTON

BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE 200020

COUNTY Chowan

DATE 4/23/2007

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	JRJ
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	A	JRJ
S I & A ITEM 64 OPERATING RATING		
S I & A ITEM 66 - INVENTORY RATING		
HS 0	BY: RPG	01 ADR
HS 0	BY: RPG	01 ADR

COMMENTS

temporary repairs to timber piles

Not Temp TMS 03/11/15

Span Element Report

Structure Number: 200020

Inspection Date: 11/12/2014

Span Number 1

Span Length 14 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	390	390	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	14	14	0	0	0	0	3306
515	105	Steel Protective Coating	390	390	0	0	0	0	5603
215		Reinforced Concrete Abutment	44	42	0	2	0	2	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	26	10	0	0	10	3354
515	231	Steel Protective Coating	329	317	0	12	0	12	5603
316		Other Bearings	1	1	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	28	13	12	3	0	15	3318
510		Wearing Surface	368	332	0	36	0	36	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 14 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	390	390	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	14	14	0	0	0	0	3306
515	105	Steel Protective Coating	390	390	0	0	0	0	5603
225		Steel Pile	2	0	2	0	0	2	3354
228		Timber Pile	6	4	1	1	0	1	3344
515	228	Steel Protective Coating	41038	41036	0	2	0	2	5603
231		Steel Pier Cap	36	32	4	0	0	0	3354
515	231	Steel Protective Coating	584	580	0	4	0	4	5603
234		Reinforced Concrete Pier Cap	29	29	0	0	0	0	3348
331		Reinforced Concrete Bridge Railing	28	23	5	0	0	5	3318
510		Wearing Surface	368	358	8	2	0	10	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 14 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	390	390	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	14	14	0	0	0	0	3306
515	105	Steel Protective Coating	390	390	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	26	10	0	0	10	3354
515	231	Steel Protective Coating	329	319	0	10	0	10	5603
234		Reinforced Concrete Pier Cap	26	23	0	3	0	2	3348
331		Reinforced Concrete Bridge Railing	28	24	4	0	0	4	3318
510		Wearing Surface	368	368	0	0	0	0	2816

Structure Number: 200020

Inspection Date: 11/12/2014

"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 14 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	390	390	0	0	0	0	3326
105		Reinforced Concrete Closed Web/Box	14	14	0	0	0	0	3306
515	105	Steel Protective Coating	390	390	0	0	0	0	5603
215		Reinforced Concrete Abutment	44	0	44	0	0	0	3350
225		Steel Pile	2	0	2	0	0	2	3354
515	225	Steel Protective Coating	34228	34226	0	2	0	2	5603
228		Timber Pile	6	6.5	0	0.1	0	0	3344
231		Steel Pier Cap	36	28	8	0	0	0	3354
515	231	Steel Protective Coating	584	580	0	4	0	4	5603
234		Reinforced Concrete Pier Cap	29	29	0	0	0	0	3348
331		Reinforced Concrete Bridge Railing	28	15	11	2	0	13	3318
510		Wearing Surface	368	342	0	26	0	26	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: 200020

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	14	9	3	2	0	5	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	14	4	9	1	0	10	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	368	332	0	36	0	36	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	390	390	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	14	14	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	390	390	0	0	0	0	3342	
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

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	14	11	3	0	0	3	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	14	12	2	0	0	2	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	368	358	8	2	0	10	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	390	390	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	14	14	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	390	390	0	0	0	0	3342	

Structure Number: 200020

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	14	12	2	0	0	2	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	14	12	2	0	0	2	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	368	368	0	0	0	0	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	390	390	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	14	14	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	390	390	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	14	12	2	0	0	2	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	14	3	9	2	0	11	3318	☐ Requested
☒ Wearing Surfaces		510	Wearing Surface	368	342	0	26	0	26	2816	☐ Requested
☐ Beam	1	16	Reinforced Concrete Top Flange	390	390	0	0	0	0	3326	☐ Requested
☒ Beam	1	105	Reinforced Concrete Closed Web/Box Gi	14	14	0	0	0	0	3306	☐ Requested
Protective System		515	Steel Protective Coating	390	390	0	0	0	0	3342	

Superstructure Element Defect Descriptions

Structure Number: 200020

Inspection Date: 11/12/2014

Span Number 1

Span 1	Bridge Rail	1	Component Name:		Concrete Railing							
Element: 331	Name	Reinforced Concrete Bridge Ra	Qty:	14	Lvl 2:	3	Lvl 3	2	Lvl 4	0	Maint. Qty	5
Defect Description:												

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

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

Span	1	Bridge Rail	2	Component Name:		Concrete Railing							
Element:	331	Name	Reinforced Concrete Bridge Ra	Qty:	14	Lvl 2:	9	Lvl 3	1	Lvl 4	0	Maint. Qty	10
Defect Description:													

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

1 Foot of Spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Does not warrant structural review. on right side @ end bent 1.

Span 1	Wearing Surfaces		Component Name:		Asphalt Wearing Surface							
Element: 510	Name	Wearing Surface	Qty:	368	Lvl 2:	0	Lvl 3	36	Lvl 4	0	Maint. Qty	36
Defect Description:												

36 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 Number 2

Span 2	Bridge Rail	1	Component Name: Concrete Railing						
Element: 331	Name Reinforced Concrete Bridge Ra	Qty: 14	Lvl 2: 3	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 3			
Defect Description:									

3 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							
Element: 331	Name	Reinforced Concrete Bridge Ra	Qty:	14	Lvl 2:	2	Lvl 3	0	Lvl 4	0	Maint. Qty	2
Defect Description:												

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

Span 2	Wearing Surfaces			Component Name:		Asphalt Wearing Surface						
Element: 510	Name	Wearing Surface	Qty:	368	Lvl 2:	8	Lvl 3	2	Lvl 4	0	Maint. Qty	10
Defect Description:												

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

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

Span Number 3

Span 3	Bridge Rail	1	Component Name: Concrete Railing						
Element: 331	Name Reinforced Concrete Bridge Ra	Qty: 14	Lvl 2: 2	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 2			
Defect Description:									

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

Span 3	Bridge Rail	2	Component Name:		Concrete Railing					
Element: 331	Name Reinforced Concrete Bridge Ra	Qty: 14	Lvl 2:	2	Lvl 3	0	Lvl 4	0	Maint. Qty	2
Defect Description:										

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

Span Number 4

Span 4	Bridge Rail	1	Component Name: Concrete Railing						
Element: 331	Name Reinforced Concrete Bridge Ra	Qty: 14	Lvl 2: 2	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 2			
Defect Description:									

Structure Number: 200020

Inspection Date: 11/12/2014

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

Span 4	Bridge Rail	2	Component Name:				Concrete Railing					
Element: 331	Name	Reinforced Concrete Bridge Ra	Qty:	14	Lvl 2:	9	Lvl 3	2	Lvl 4	0	Maint. Qty	11
Defect Description:												

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

2 Feet of Spall Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Does not warrant structural review. over bent 3.

Span	4	Wearing Surfaces	Component Name:	Asphalt Wearing Surface								
Element:	510	Name	Wearing Surface	Qty:	368	Lvl 2:	0	Lvl 3	26	Lvl 4	0 Maint. Qty	26
Defect Description:												

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

Substructure Detailed Element Quantities

Structure Number: 200020

Inspection Date: 11/12/2014

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	215	Reinforced Concrete Abutment	44	42	0	2	0	2	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	26	10	0	0	10	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	317	0	12	0	12	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

Structure Number: 200020

Inspection Date: 11/12/2014

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	29	29	0	0	0	0	3348	☐ Requested
☐ Caps	1	515	Steel Protective Coating	255	255	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	0	1	0	1	3344	☐ Requested
☐ Piles and Columns	1	515	Steel Protective Coating	6810	6810	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	6810	6810	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	6810	6810	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	6810	6810	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	0	3344	☐ Requested
☐ Piles and Columns	5	515	Steel Protective Coating	6810	6810	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	6810	6810	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	32	4	0	0	0	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	325	0	4	0	4	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	26	23	0	3	0	2	3348	☐ Requested

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	26	10	0	0	10	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	319	0	10	0	10	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	1	515	Steel Protective Coating	89	88	0	1	0	1	3342	☐ 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	29	29	0	0	0	0	3348	☐ Requested
☐ Caps	1	515	Steel Protective Coating	255	255	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	6810	6810	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	6810	6810	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	6810	6810	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	6810	6810	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	6810	6810	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	215	Reinforced Concrete Abutment	44	0	44	0	0	0	3350	☐ Requested

Structure Number: 200020

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	28	8	0	0	0	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	329	325	0	4	0	4	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: 200020

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: 44 Lvl 2: 0 Lvl 3: 2 Lvl 4: 0 Maint. Qty: 2

Defect Description:

1 Feet of spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Area is 1' long, 20" below deck, and 1" deep. Does not warrant structural review.

1 Feet of spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Area is 1' long, 84" below deck, and 1.5" deep. Does not warrant structural review.

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

Span 1	Row 1	Caps	1						
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Crutch Bent

Element: 231 Name Steel Pier Cap Qty: 36 Lvl 2: 10 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 10

Defect Description:

10 Feet of Corrosion: Corrosion of the steel has initiated.F

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

Span 1	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 at top of pile.

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 at top.

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

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

Defect Description:

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. 5' from deck, 1' wide, 1.5" deep.

Bent 1	Row 1	Piles and Columns	5						
--------	-------	-------------------	---	--	--	--	--	--	--

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

Defect Description:

1 Each of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in the tension zone.

5' from bottom of cap down, 1" wide, and 1" deep.

Span 2	Row 1	Caps	1						
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Crutch Bent

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

Defect Description:

4 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

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

Span 2	Row 1	Piles and Columns	1						
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Crutch Bent

Structure Number: 200020

Inspection Date: 11/12/2014

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

Span 3 Row 1 Caps 1
Crutch Bent

Element: 231 Name Steel Pier Cap Qty: 36 Lvl 2: 10 Lvl 3: 0 Lvl 4: 0 Maint. Qty 10
Defect Description:

10 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.
10 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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: 26 Lvl 2: 0 Lvl 3: 3 Lvl 4: 0 Maint. Qty 2
Defect Description:

2 Feet of Spall. Spall greater than 1 inch deep or greater than 6 inches in diameter. Condition does not warrant structural Review. 2' wide, 1" deep, 2' from deck down.
1 Feet of Spall. Spall greater than 1 inch deep or greater than 6 inches in diameter. Condition does not warrant structural Review. 1' wide, 1" deep, at top of cap. 3 areas similar.

Bent 3 Row 1 Piles and Columns 3

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

1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. 2.5" deep, 10" wide, and 14" tall, starts 30" below cap. Outer shell starts 16" below cap, extends down 42" and 12" wide in northwest face.
PRIORITY MAINTENANCE ISSUED

End Bent 2 Row 1 Abutments 1

Element: 215 Name Reinforced Concrete Abutment Qty: 44 Lvl 2: 44 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0
Defect Description:

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

Span 4 Row 1 Caps 1
Crutch Bent

Structure Number: 200020

Inspection Date: 11/12/2014

Element: 231 **Name** Steel Pier Cap **Qty:** 36 **Lvl 2:** 8 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 0
Defect Description:

8 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. on left end
4 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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: Freckled Rust. 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: Freckled Rust. Corrosion of the steel has initiated.
1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

National Bridge and NC Inspection Items

Structure Number: 200020

Inspection Date: 11/12/2014

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	6
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	20	3376
Drainage System	G, F, P, or C		0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	F	150	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	F	3	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	7		
Estimated Remaining Life	0 - 100 Years	11		

Note: If NC SMU Inspection Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	3
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 200020

Inspection Date: 11/12/2014

Item	Channel and Channel Protection - Item 61	Grade	5	Maint Code	Qty.	0
Details	DEBRIS IN STREAM.					
Item	Priority Maintenance Issued	Grade	Y	Maint Code	Qty.	0
Details	PRIORITY MAINTENANCE ISSUED FOR PILE 3 AT BENT 3.					
Item	Presently Posted	Grade	N	Maint Code	Qty.	0
Details	NOT POSTED.					
Item	Deck Debris	Grade	F	Maint Code	3376	Qty. 20
Details	TRASH AND DEBRIS ADJACENT CURBS					
Item	Drift	Grade	F	Maint Code	3366	Qty. 3
Details	DEBRIS IN STREAM.					
Item	Wingwalls	Grade	F	Maint Code	3350	Qty. 150
Details	ALL WINGWALLS DECAYED.					

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 200020

County CHOWAN

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	4 <i>TSE</i> <i>2/23/15</i>	PILE 3 AT BENT 3. 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. 2.5" deep, 10" wide, and 14" tall, starts 30" below cap. Outer shell starts 16" below cap, extends down 42" and 12" wide in northwest face. PRIORITY MAINTENANCE ISSUED	

Key



Priority Maintenance Item



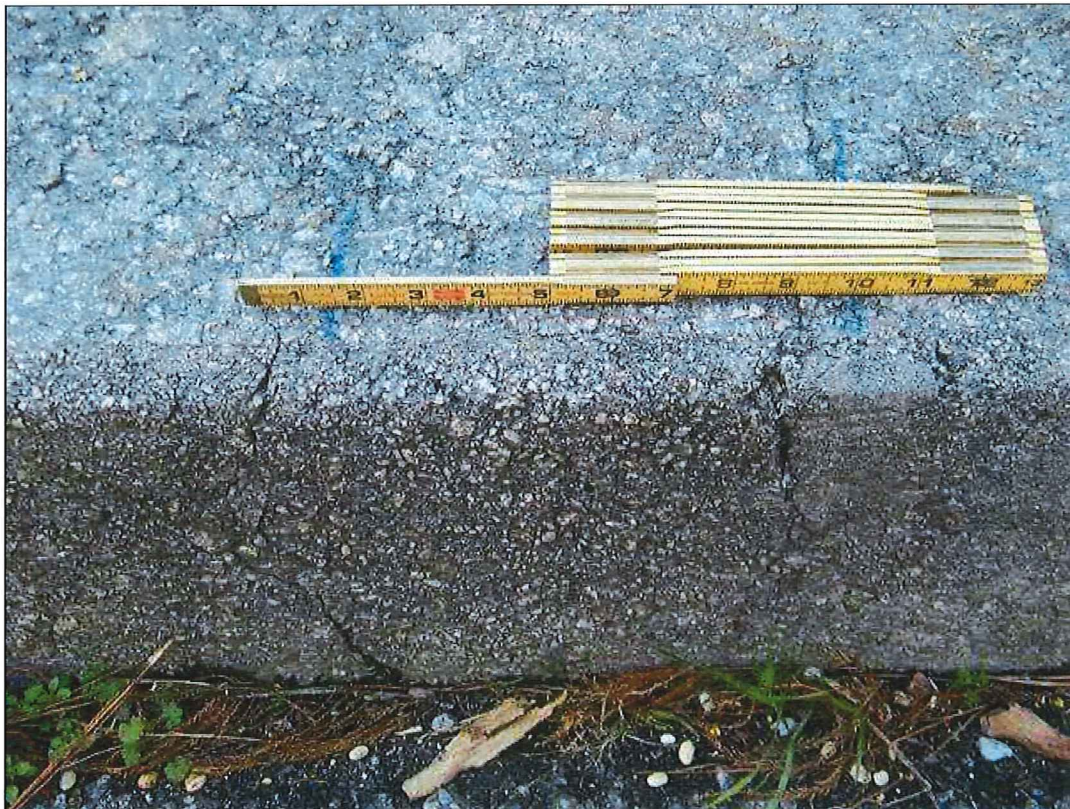
Critical Finding Item



Priority Maintenance Level Not Determined



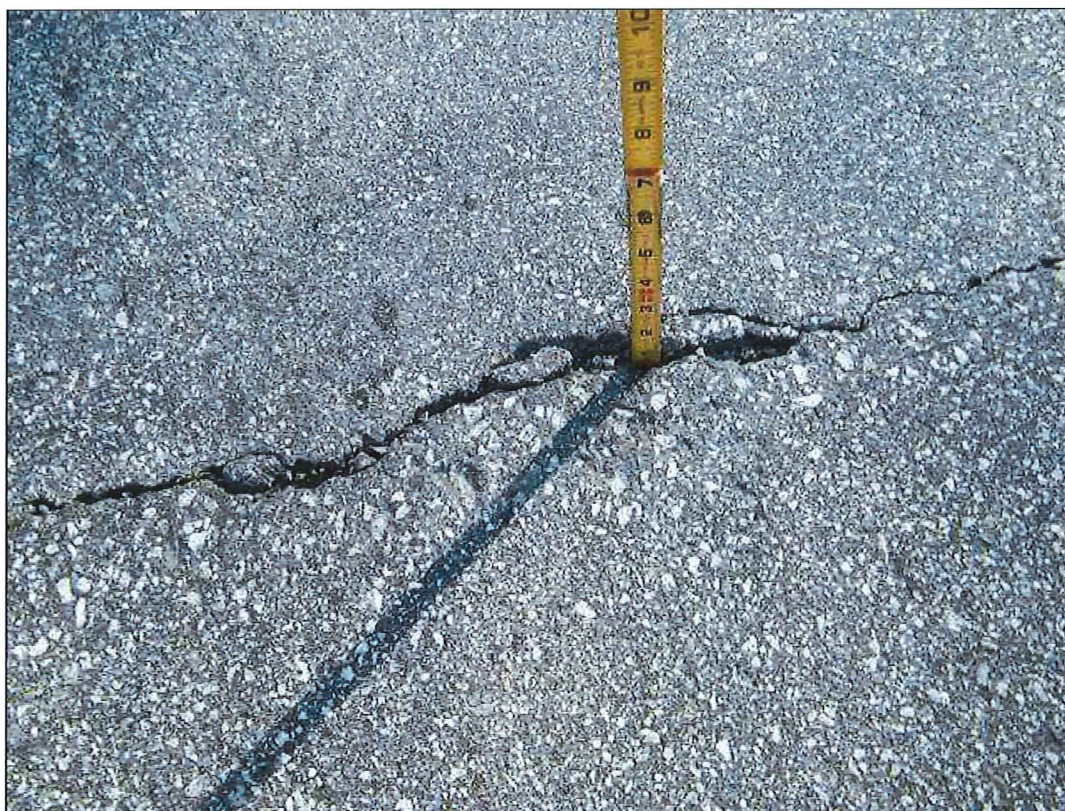
TRASH AND DEBRIS ADJACENT CURBS



Span 1 Left Bridge Rail: 2 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.



Span 1 Right Bridge Rail: 1 Feet of Spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Does not warrant structural review. on right side @ end bent 1.



Span 1 Wearing Surface: 36 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: 2 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.



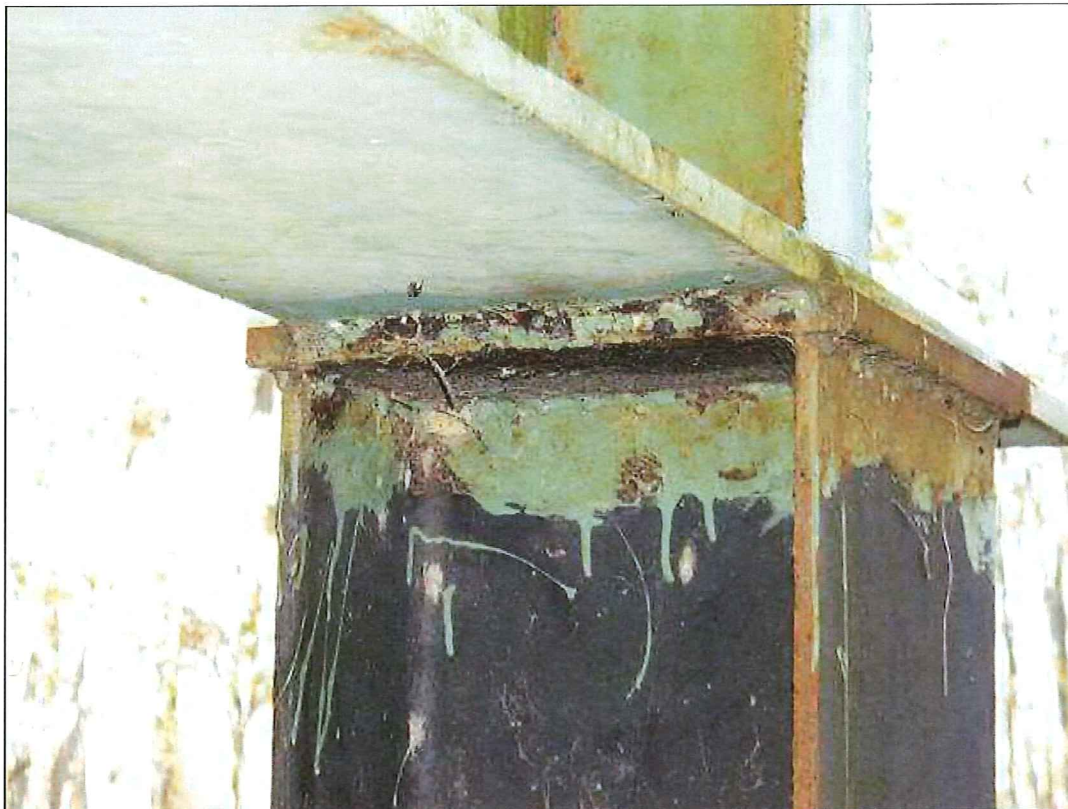
Span 4 Right Bridge Rail: 2 Feet of Spall Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Does not warrant structural review. over bent 3.



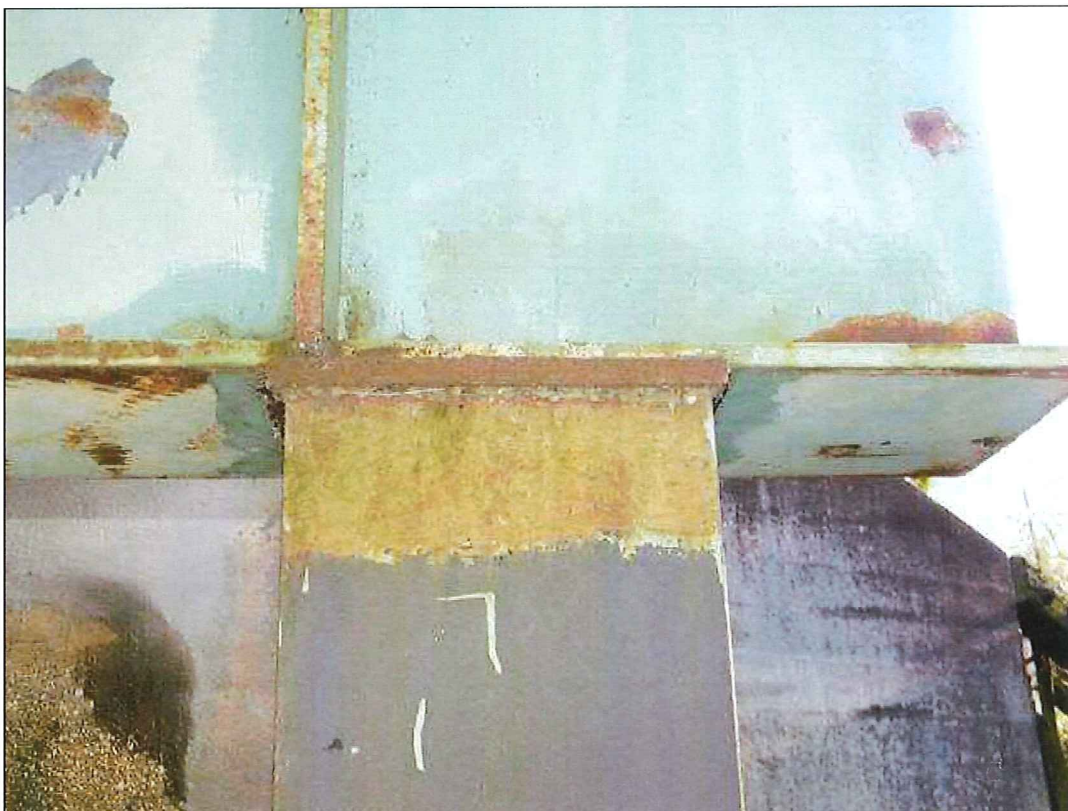
Span 4 Wearing Surface: 26 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. in both lanes.



End Bent 1 Abutment/Backwall : 1 Feet of spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Area is 1' long, 20" below deck, and 1" deep. 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 at top of pile.



Bent 1 Cap : 10 Feet of Corrosion: Corrosion of the steel has initiated.F



Bent 1 Cap : 12 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.



Bent 1 Pile 1: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. 5' from deck, 1' wide, 1.5" deep.



Bent 1 Pile 5: 1 Each of Check/Shake: Penetrates 5%-50% of the thickness of the member and not in the tension zone. 5' from bottom of cap down, 1" wide, and 1" deep.



Bent 1 Cap : 4 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.



Bent 2 Cap : 2 Feet of Spall. Spall greater than 1 inch deep or greater than 6 inches in diameter. Condition does not warrant structural Review. 2' wide, 1" deep, 2' from deck down.



Bent 2 Cap : 1 Feet of Spall. Spall greater than 1 inch deep or greater than 6 inches in diameter. Condition does not warrant structural Review. 1' wide, 1" deep, at top of cap.



Bent 1 Cap : 10 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.



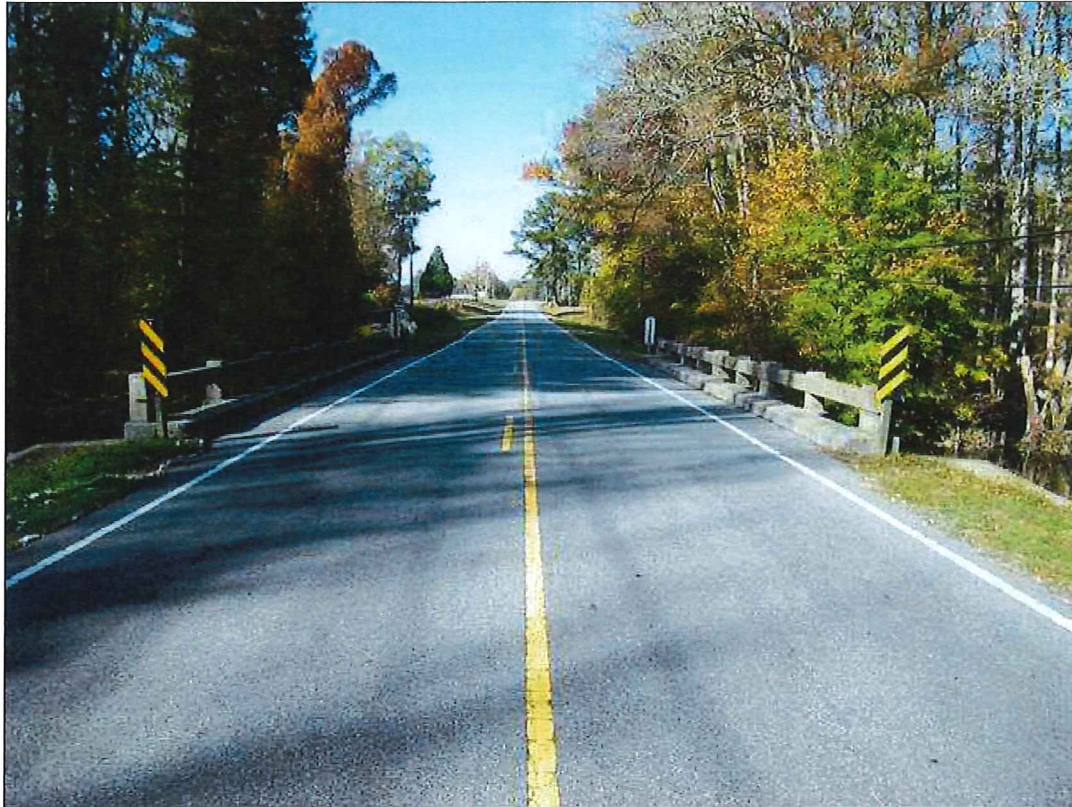
Bent 3 Pile 3: 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. 2.5" deep, 10" wide, and 14" tall, starts 30" below cap. Outer shell starts 16" below cap, extends down 42" and 12" wide in northwest face



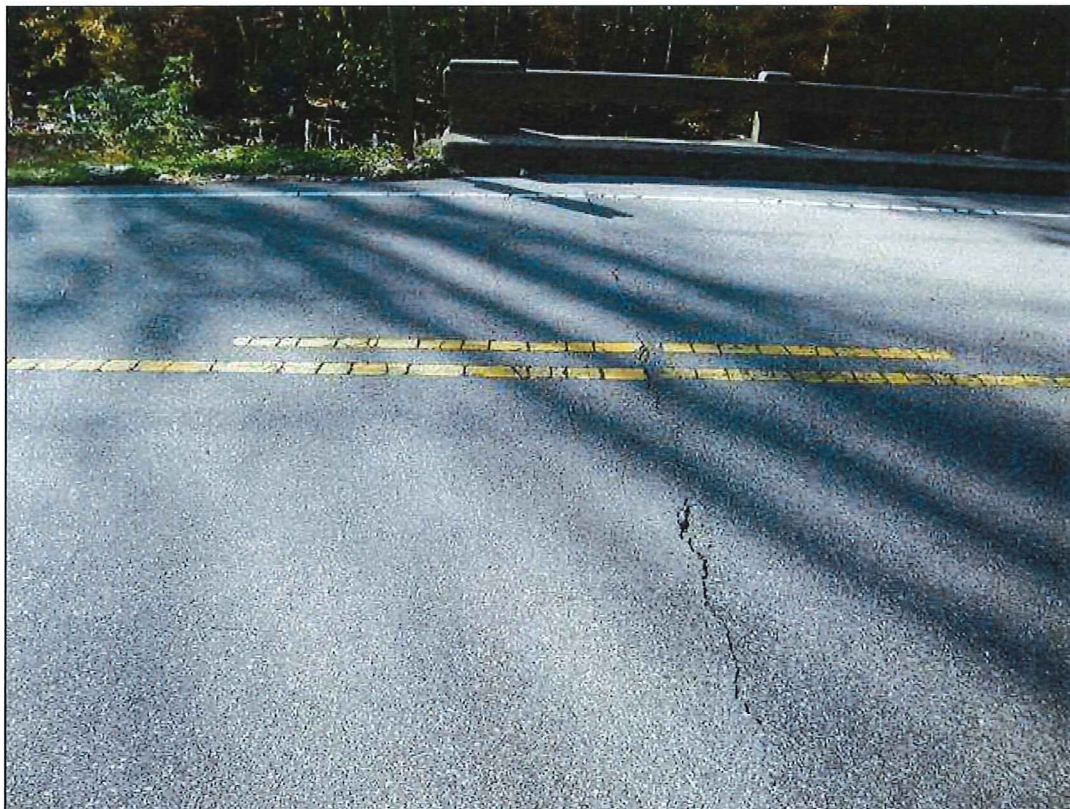
Bent 1 Cap : 4 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.



decayed wings on all corners



LOOKING NORTH



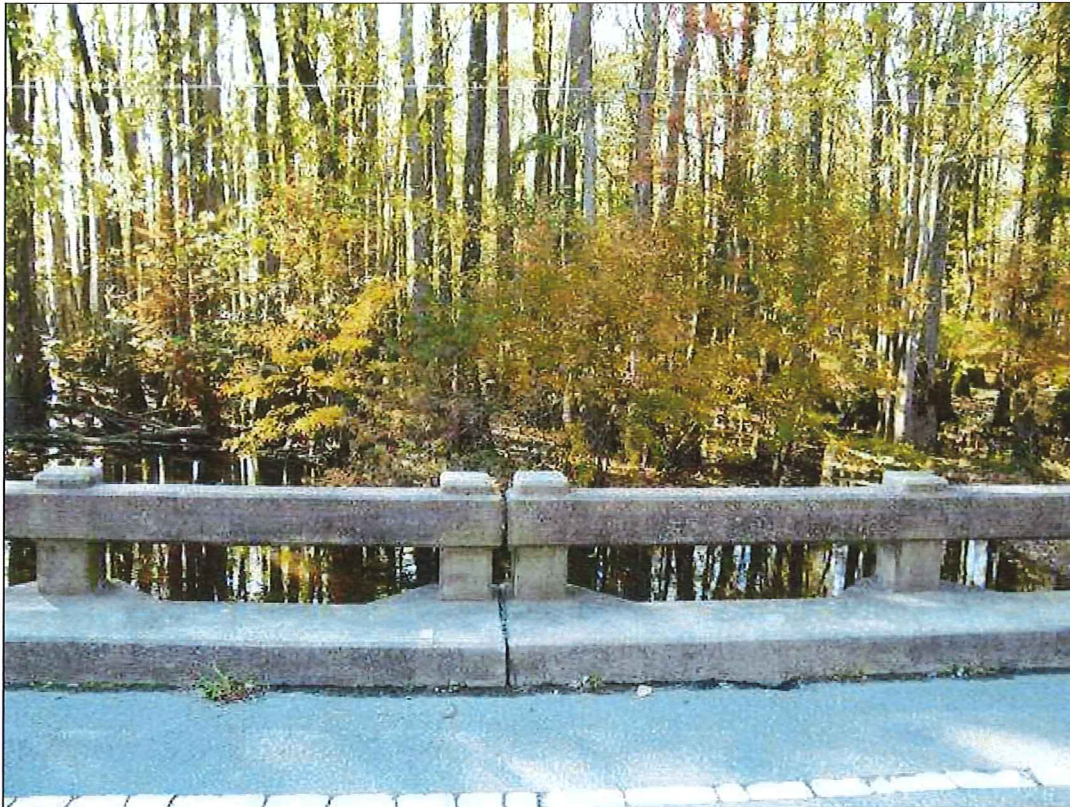
ROADWAY APPROACH



WEARING SURFACE



WEARING SURFACE



LOOKING WEST DOWNSTREAM



LOOKING EAST UPSTREAM



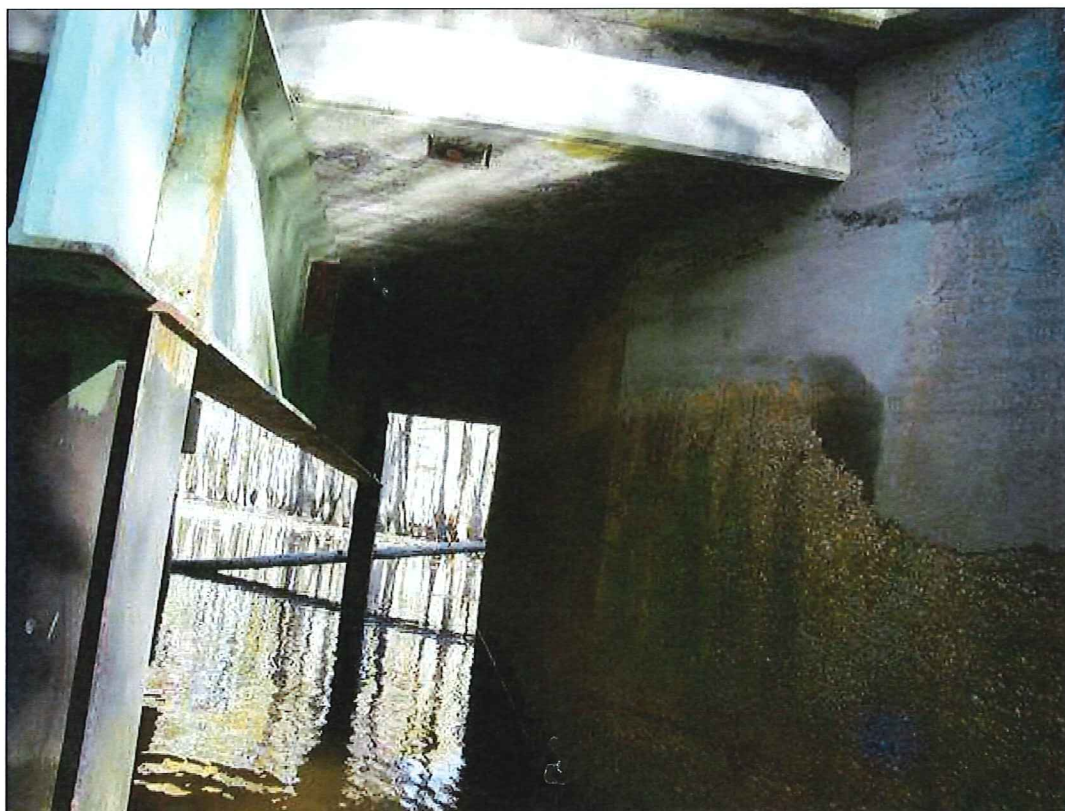
LOOKING SOUTH



EAST SIDE



WEST SIDE



END BENT 1



SPAN 1 CRUTCH BENT



End Bent 1:1 Feet of spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Area is 1' long, 84" below deck, and 1.5" deep. Does not warrant structural review.



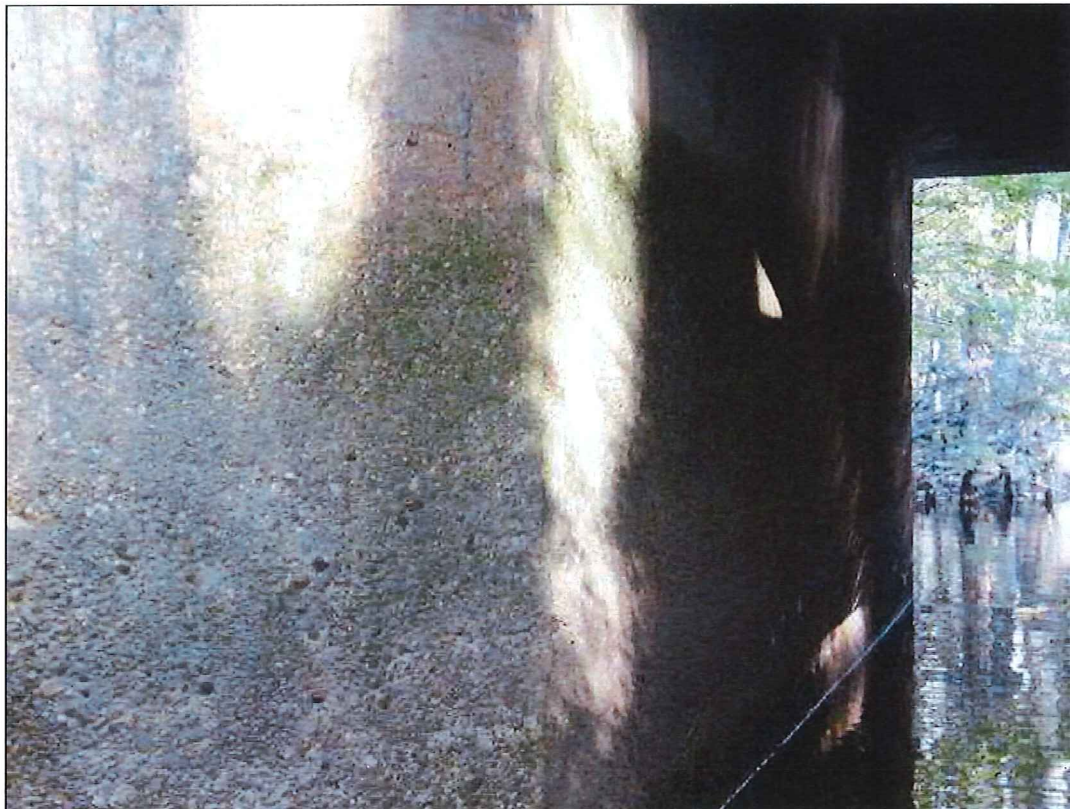
BENT 1



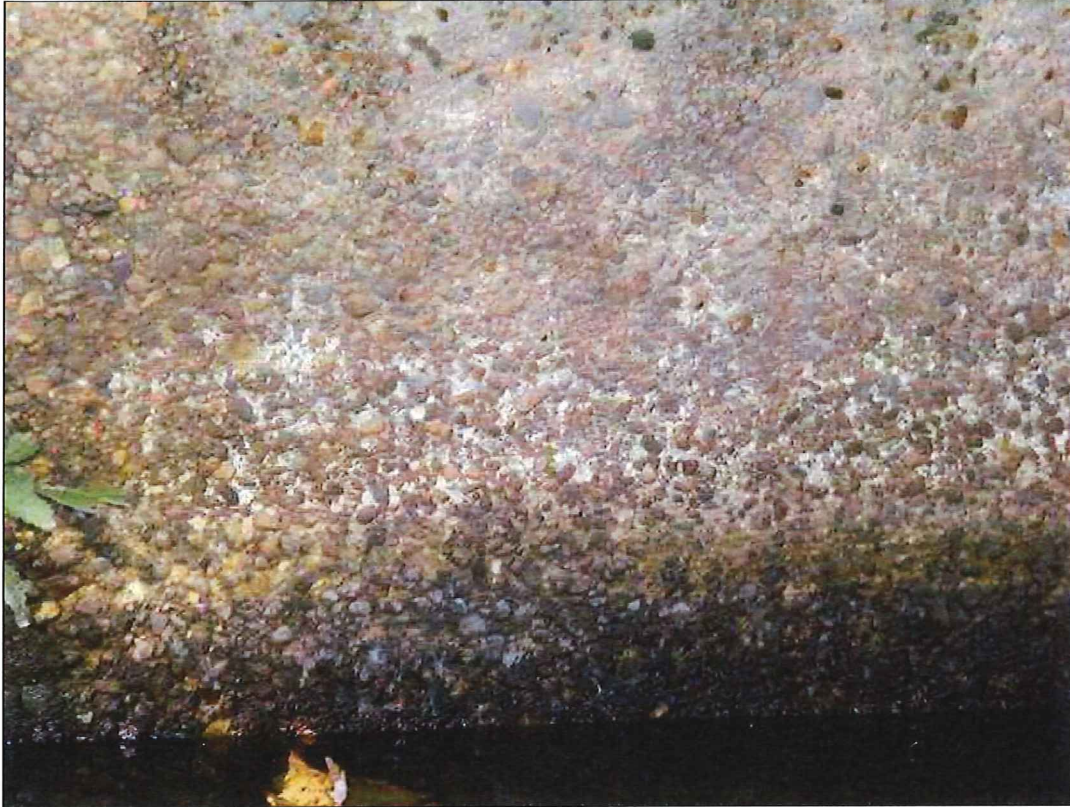
pile 4 at bent 1 encased, pile 6 is similar.



span 4 crutch bent, span 3 crutch similar



END BENT 2



End Bent 2: 44 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.

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

Run Date: 03/02/2015

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 200020
 (8) STRUCTURE NUMBER(FEDERAL) 000000000410020
 (5) INVENTORY ROUTE (ON/UNDER) - ON 31000320
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 3
 (3) COUNTY CODE 41 (4) PLACE CODE 0
 (6) FEATURE INTERSECTED - DILLARD CREEK
 (7) FACILITY CARRIED NC32
 (9) LOCATION 0.3 MI S JCT SR 1230.
 (11) MILEPOINT 0
 (16) LAT 36° 14' 37.97" (17) LONG 76° 39' 18.00"
 (98) BORDER BRIDGE STATE CODE PCT SHARE
 (99) BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 19.4
 STATUS = Structurally Deficient

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM - YES
 (104) HIGHWAY SYSTEM Is not on NHS 0
 (26) FUNCTIONAL CLASS - Minor Arterial 06
 (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

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Concrete continuous
 TYPE - Slab CODE 201
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE 000
 (45) NUMBER OF SPANS IN MAIN UNIT 8
 (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

CONDITION CODE

(58) DECK 6
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 4
 (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 - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED D
 DESCRIPTION - Open Temporary Shoring

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 3
 (68) DECK GEOMETRY 3
 (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

(75) TYPE OF WORK - CODE
 (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 4800 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 11/21/2012
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - YES 48Mo B) 02/13/2014
 C) OTHER SPECIAL INSP NO C)
 SCOUR

AGE AND SERVICE

(27) YEAR BUILT 1922
 (106) YEAR RECONSTRUCTED 1952
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 0
 (29) AVERAGE DAILY TRAFFIC 2400
 (30) YEAR OF ADT 2011 (109) TRUCK ADT PCT 8%
 (19) BYPASS OR DETOUR LENGTH 5 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 7 FT
 (49) STRUCTURE LENGTH 56 FT
 (50) CURB OR SIDEWALK: LEFT 1.5415 FT RIGHT 1.5415 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 26.25 FT
 (52) DECK WIDTH OUT TO OUT 27.833 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 20 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 26.25 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

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 03/02/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
CHOWAN	1	3	200020	56	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
NC32	DILLARD CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.3 MI S JCT SR 1230.		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
06	FA	NFA	2400 2011	LT 141 RT 141

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1922	SHPWC	114	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		12 FT		4 FT

SUPERSTRUCTURE :	MONOLITHIC SLAB
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SUBSTRUCTURE :	ABUTS:RC,BTS1&3RC CAP/TIM.PILE;BTS2&4:RC PIER;STL.CRUTCH BTS
----------------	--

SPANS :	8@7'CONTINUOUS
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BEAMS OR GIRDERS :	MONOLITHIC SLAB
--------------------	-----------------

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
10.5 RC/3 AWS		27.833 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-1	HS-1	mono slab	SV	TTST	04/10/1995

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 200020

County CHOWAN

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	4	PILE 3 AT BENT 3. 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. 2.5" deep, 10" wide, and 14" tall, starts 30" below cap. Outer shell starts 16" below cap, extends down 42" and 12" wide in northwest face. PRIORITY MAINTENANCE ISSUED	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 200020 County CHOWAN

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

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	4 LF
Location:		
Pier Substructure Bent/Span No. 3 pile 3		
Priority Level	Status	
Priority Maintenance	Division Maintenance Work Completed	
Submitted Date:	Submitted By:	Assisted By:
11/12/2014	Z.S. DUNLOW	G.L. HARRINGTON
Details		
PILE 3 AT BENT 3. 1 Each of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. 2.5" deep, 10" wide, and 14" tall, starts 30" below cap. Outer shell startsc 16" below cap, extends down 42" and 12" wide in northwest face. PRIORITY MAINTENANCE ISSUED		

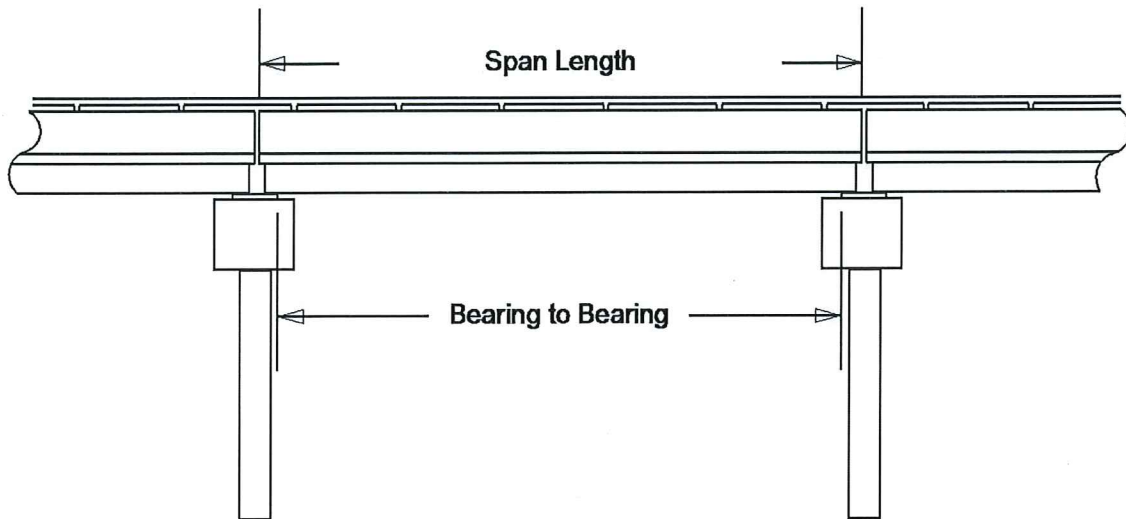


PILE 3 AT BENT 3. 1 EACH OF DECAY/SECTION LOSS: AFFECTS 10% OR MORE OF THE MEMBER BUT DOES NOT WARRANT STRUCTURAL REVIEW. 2.5" DEEP, 10" WIDE, AND 14"

Structure Data Worksheet

Spans

County: CHOWAN Structure No: 200020 Date: _____ Inspected By: ZSD



Span No	Span Length	Bearing to Bearing	Comments
1	7'	6.5'	
2	7'	7'	
3	7'	7'	
4	7'	5'	
5	7'	7'	
6	7'	7'	
7	7'	7'	
8	7'	6.5'	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 200020 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
2	3.8	TOP OF CAP			
2.9	11.7	ABUT1	2.9	11.6	ABUT1
3	11	WSWE			
10	14.4	BENT1	10	10.9	BENT1
19	13	BENT 2	19	13.6	BENT 2
27	13.3	BENT 3	27	14.4	BENT 3
33	12	BENT 4	33	14.9	BENT 4
39	14	BENT 5	39	14.2	BENT 5
46	13.4	BENT 6	46	14.4	BENT 6
52	12.1	BENT 7	52	14.7	BENT 7
60	11	WSWE			
60.9	12	ABUT2	60.9	13.5	ABUTMENT 2

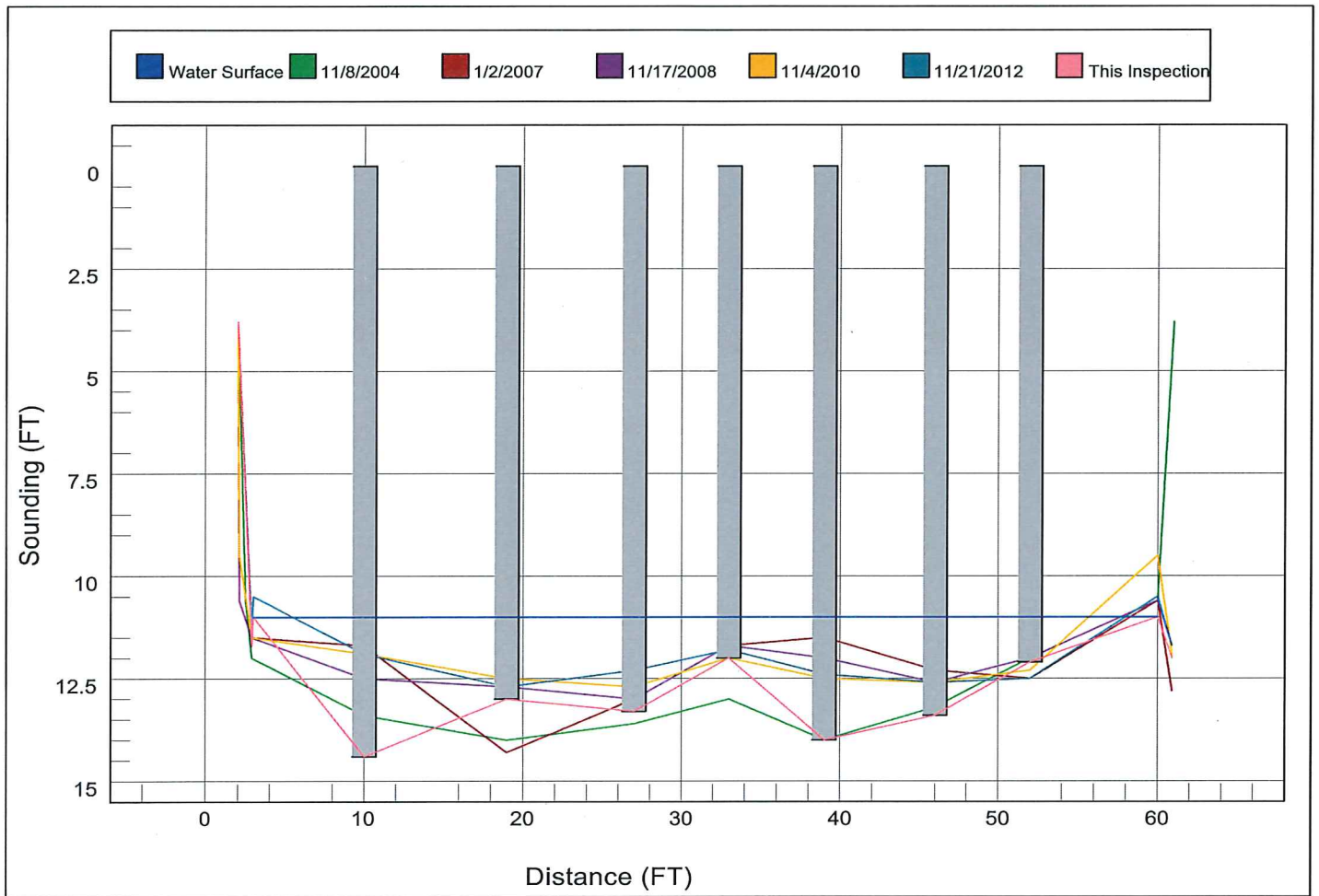
Bridge: 200020

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			

Title

APPROACH ROADWAY

Description

APPROACH ROADWAY

Bridge No: 200020

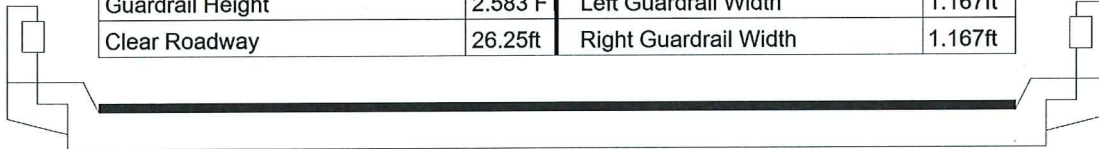
Drawn By: GLH

Date: 11/21/2012

File Name: S0034000147

Bridge Inspection Field Sketch

Out to Out	27.833ft	Wearing Surface	0.25ft
Between Rails	29.333ft	Median Width	
Curb Height	0.6667	Median Height	
Guardrail Height	2.583 F	Left Guardrail Width	1.167ft
Clear Roadway	26.25ft	Right Guardrail Width	1.167ft



Measurements for Span #	1		
Deck Thickness	0.875	Left Overhang	
Top of Rail to Bottom of Beam	3.417	Right Overhang	

Title

TYPICAL SECTION

Description

TYPICAL SECTION

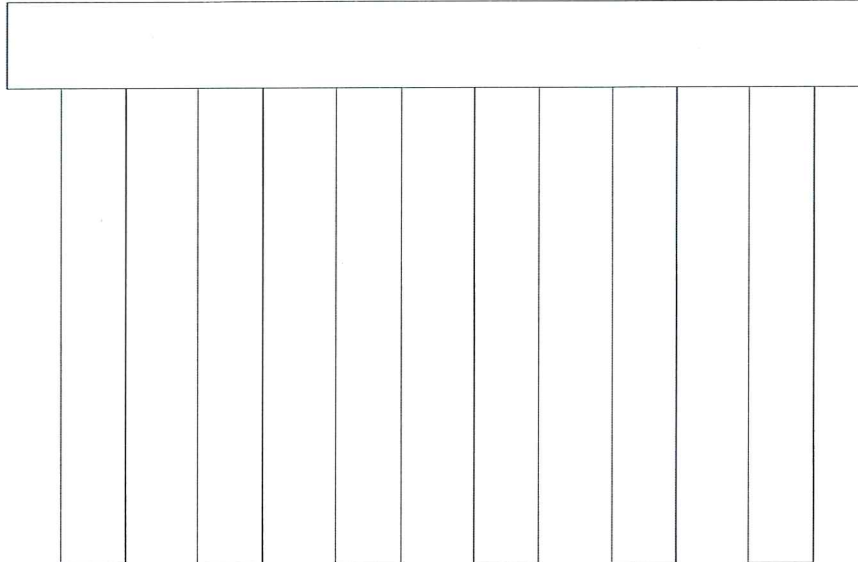
Bridge No: 200020

Drawn By: GLH

Date: 11/21/2012

File Name: S0034000148

Bridge Inspection Field Sketch



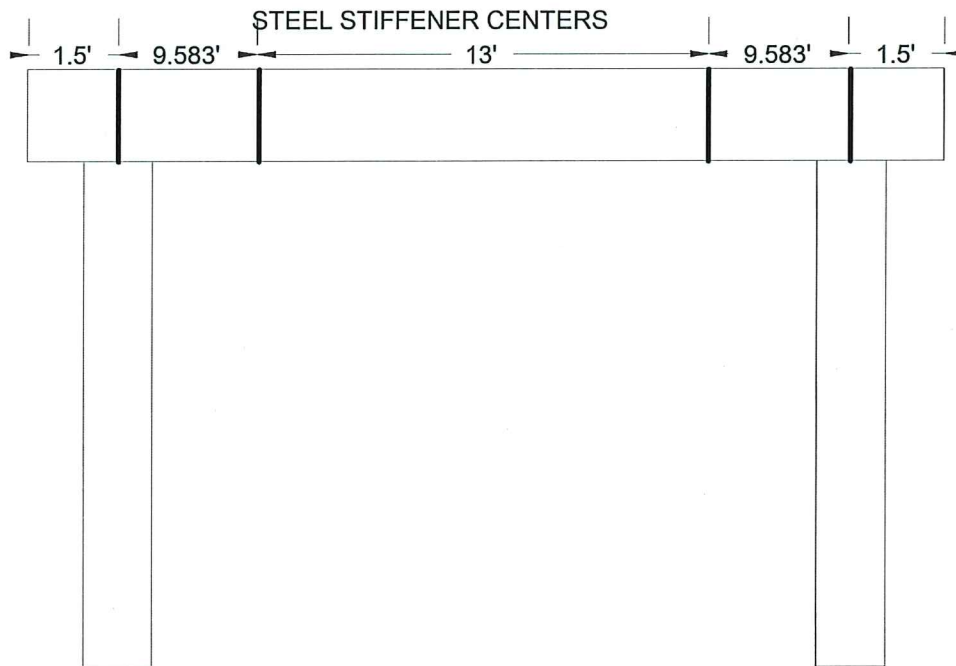
Bent #	2	Bents 6 similar	
Cap - Pre-Cast			
Cap Size	28.333ft Long	2.25ft Wide	2.083ft High
Left Overhang	1.417ft		
Right Overhang	1.417ft		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	4.5 ft		1.417 ft		Vertical
2	Wood or Timber	Pile Bent	5 ft		1.417 ft		Vertical
3	Wood or Timber	Pile Bent	5 ft		1.417 ft		Vertical
4	Wood or Timber	Pile Bent	5 ft		1.417 ft		Vertical
5	Wood or Timber	Pile Bent	6 ft		1.417 ft		Vertical
6	Wood or Timber	Pile Bent			1.417 ft		Vertical

ABUTMENT 1 AND 2 ARE REINFORCED CONCRETE
 PIER 4 IS REINFORCED CONCRETE
 PILE 1 AND PILE 6 ARE ENCASED WITH CONCRETE 2' AROUND AT BENT 6
 PILE 6 AT BT2 ENCASED .

Title		Description	
BT2 ABND BT6 SUBSTRUCTURE		PILE DIAGRAM FOR BENT 2 AND BE NT 6	
Bridge No: 200020	Drawn By: GLH	Date: 11/21/2012	File Name: S0034000149

Bridge Inspection Field Sketch



Bent #	1	Bents 3,5,7 similar	
Cap - Beam Type (Wood or Steel)			
Cap Size	35.5ft Long	1ft 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

Title

BENT 1, 3, 5, AND 7 SUBST.

Description

PILE DIAGRAM FOR BENTS 1,3,5,
AND 7

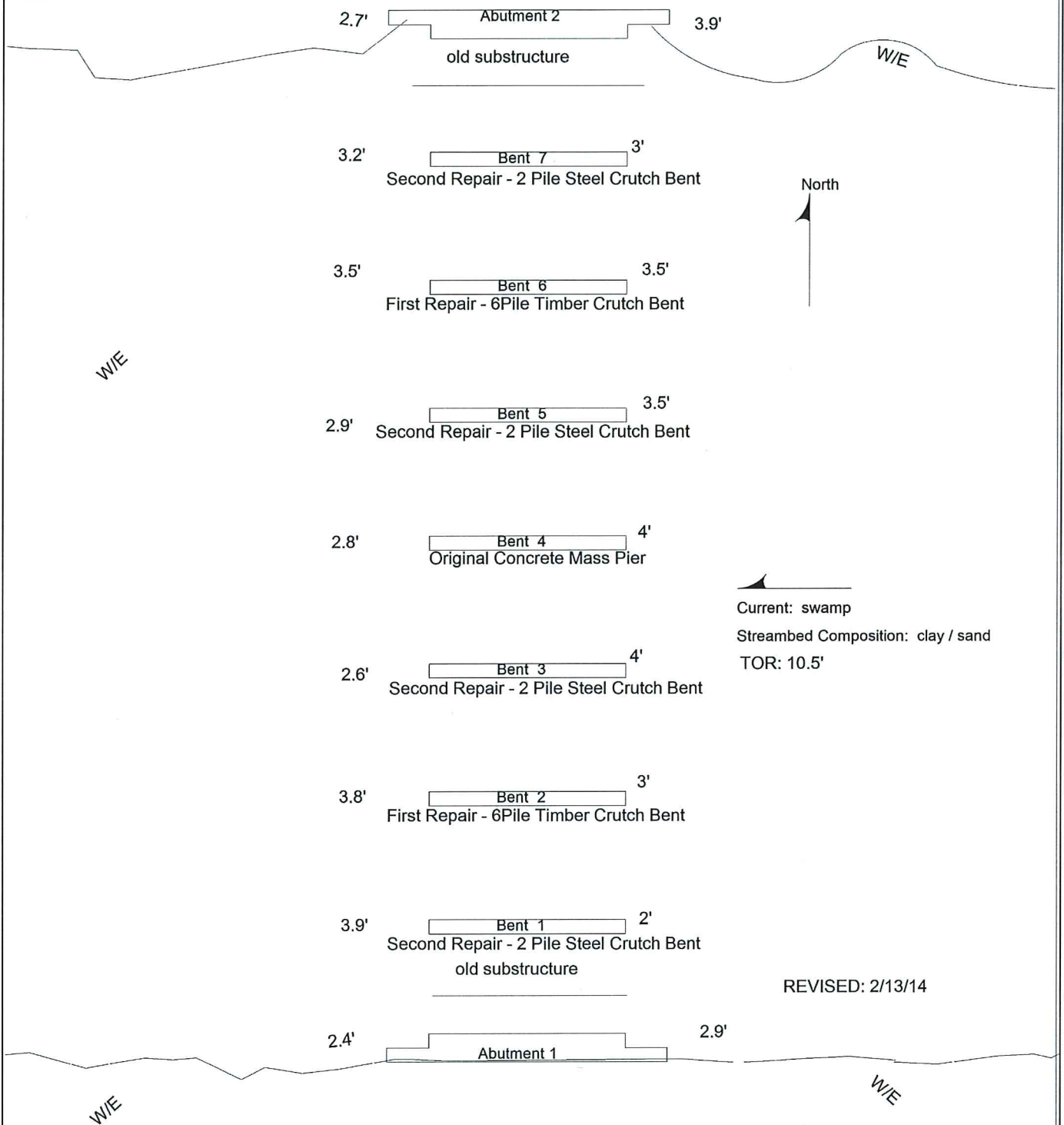
Bridge No: 200020

Drawn By: GLH

Date: 11/21/2012

File Name: S0034000150

Bridge Inspection Field Sketch



Title

Chowan 20 Plan View

Description

Channel Plan View

Bridge No: 200020

Drawn By: Bk

Date: 02/08/2006

File Name: S0170000057