



NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STRUCTURE MANAGEMENT UNIT

ATTENTION: **SHORED STRUCTURE**

## Structure Safety Report

### Routine Element Inspection

COUNTY: CHOWAN STRUCTURE NUMBER: 200021 FREQUENCY: 24 MONTHS

FACILITY CARRIED: NC32 MILE POST:

LOCATION: 1.0 MI S JCT SR 1303

FEATURE INTERSECTED: SAND RUN

LATITUDE: 36° 18' 0.14" LONGITUDE: 76° 38' 17.55"

SUPERSTRUCTURE: CONT MONOLITHIC SLAB

SUBSTRUCTURE: RC FULL HGT ABUT;INT.BT:RC CAP/TIM.PILES;STL.CRUTCH BTS

SPANS: 4@7.5" CONT.

☐ 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<br>issued for |                 | Number<br>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

ASSISTED BY G.L. HARRINGTON

# Span Element Report

Structure Number: 200021

Inspection Date: 11/12/2014

Span Number 1

Span Length 15 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     | 418            | 418              | 0                | 0                | 0                | 0               | 3326        |
| 105            |               | Reinforced Concrete Closed Web/Box | 15             | 15               | 0                | 0                | 0                | 0               | 3306        |
| 515            | 105           | Steel Protective Coating           | 418            | 418              | 0                | 0                | 0                | 0               | 5603        |
| 215            |               | Reinforced Concrete Abutment       | 33             | 20               | 12               | 1                | 0                | 1               | 3350        |
| 225            |               | Steel Pile                         | 2              | 0                | 2                | 0                | 0                | 1               | 3354        |
| 515            | 225           | Steel Protective Coating           | 178            | 176              | 0                | 2                | 0                | 2               | 5603        |
| 231            |               | Steel Pier Cap                     | 36             | 25               | 10               | 1                | 0                | 1               | 3354        |
| 515            | 231           | Steel Protective Coating           | 329            | 328              | 0                | 1                | 0                | 1               | 5603        |
| 331            |               | Reinforced Concrete Bridge Railing | 30             | 20               | 0                | 10               | 0                | 10              | 3318        |
| 510            |               | Wearing Surface                    | 392            | 366              | 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

Span Number 2

Span Length 15 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     | 418            | 418              | 0                | 0                | 0                | 0               | 3326        |
| 105            |               | Reinforced Concrete Closed Web/Box | 15             | 15               | 0                | 0                | 0                | 0               | 3306        |
| 515            | 105           | Steel Protective Coating           | 418            | 418              | 0                | 0                | 0                | 0               | 5603        |
| 215            |               | Reinforced Concrete Abutment       | 33             | 33               | 0                | 0                | 0                | 0               | 3350        |
| 225            |               | Steel Pile                         | 2              | 0                | 2                | 0                | 0                | 0               | 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             | 26               | 10               | 0                | 0                | 0               | 3354        |
| 234            |               | Reinforced Concrete Pier Cap       | 27             | 27               | 0                | 0                | 0                | 0               | 3348        |
| 515            | 234           | Steel Protective Coating           | 243            | 242              | 1                | 0                | 0                | 1               | 5603        |
| 331            |               | Reinforced Concrete Bridge Railing | 30             | 19               | 11               | 0                | 0                | 11              | 3318        |
| 510            |               | Wearing Surface                    | 392            | 366              | 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: 200021

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               |
|------------------------------------------------------|-----------------|----------------|---------------------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Bridge Rail      | 1               | 331            | Reinforced Concrete Bridge Railing    | 15             | 5                | 0                | 10               | 0                | 10              | 3318        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Bridge Rail      | 2               | 331            | Reinforced Concrete Bridge Railing    | 15             | 15               | 0                | 0                | 0                | 0               | 3318        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Wearing Surfaces |                 | 510            | Wearing Surface                       | 392            | 366              | 0                | 26               | 0                | 26              | 2816        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Beam                        | 1               | 16             | Reinforced Concrete Top Flange        | 418            | 418              | 0                | 0                | 0                | 0               | 3326        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Beam             | 1               | 105            | Reinforced Concrete Closed Web/Box Gi | 15             | 15               | 0                | 0                | 0                | 0               | 3306        | <input type="checkbox"/> Requested |
| Protective System                                    |                 | 515            | Steel Protective Coating              | 418            | 418              | 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               |
|------------------------------------------------------|-----------------|----------------|---------------------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Bridge Rail      | 1               | 331            | Reinforced Concrete Bridge Railing    | 15             | 10               | 5                | 0                | 0                | 5               | 3318        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Bridge Rail      | 2               | 331            | Reinforced Concrete Bridge Railing    | 15             | 9                | 6                | 0                | 0                | 6               | 3318        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Wearing Surfaces |                 | 510            | Wearing Surface                       | 392            | 366              | 0                | 26               | 0                | 26              | 2816        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Beam                        | 1               | 16             | Reinforced Concrete Top Flange        | 418            | 418              | 0                | 0                | 0                | 0               | 3326        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Beam             | 1               | 105            | Reinforced Concrete Closed Web/Box Gi | 15             | 15               | 0                | 0                | 0                | 0               | 3306        | <input type="checkbox"/> Requested |
| Protective System                                    |                 | 515            | Steel Protective Coating              | 418            | 418              | 0                | 0                | 0                | 0               | 3342        |                                    |

# Superstructure Element Defect Descriptions

Structure Number: 200021

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:            | 15 Lvl 2: 0 Lvl 3: 10 Lvl 4: 0 Maint. Qty: 10 |
| Defect Description: |     |             |                               |                 |                                               |

10 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:            | 15 Lvl 2: 0 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.

| Span                | 1   | Wearing Surfaces | Component Name: | Asphalt Wearing Surface |     |        |   |       |    |       |   |            |    |
|---------------------|-----|------------------|-----------------|-------------------------|-----|--------|---|-------|----|-------|---|------------|----|
| Element:            | 510 | Name             | Wearing Surface | Qty:                    | 392 | 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. at end bent 1.

| Span                | 1   | Beam | 1                            | Component Name: | Reinforced Concrete Cored Slab              |
|---------------------|-----|------|------------------------------|-----------------|---------------------------------------------|
| Element:            | 105 | Name | Reinforced Concrete Closed W | Qty:            | 15 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0 |
| Defect Description: |     |      |                              |                 |                                             |

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

Span Number 2

| Span                | 2   | Bridge Rail | 1                             | Component Name: | Concrete Railing                            |
|---------------------|-----|-------------|-------------------------------|-----------------|---------------------------------------------|
| Element:            | 331 | Name        | Reinforced Concrete Bridge Ra | Qty:            | 15 Lvl 2: 5 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 5 |
| Defect Description: |     |             |                               |                 |                                             |

5 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:            | 15 Lvl 2: 6 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 6 |
| Defect Description: |     |             |                               |                 |                                             |

6 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:            | 392 | 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.

## Substructure Detailed Element Quantities

Structure Number: 200021

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               |
|-----------------------------------------------|-----------------|----------------|------------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Abutments | 1               | 215            | Reinforced Concrete Abutment | 33             | 20               | 12               | 1                | 0                | 1               | 3350        | <input type="checkbox"/> 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               |
|-------------------------------------------------------|-----------------|----------------|--------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Caps              | 1               | 231            | Steel Pier Cap           | 36             | 25               | 10               | 1                | 0                | 1               | 3354        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Caps              | 1               | 515            | Steel Protective Coating | 329            | 328              | 0                | 1                | 0                | 1               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 1               | 225            | Steel Pile               | 1              | 0                | 1                | 0                | 0                | 0               | 3354        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 1               | 515            | Steel Protective Coating | 89             | 88               | 0                | 1                | 0                | 1               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 2               | 225            | Steel Pile               | 1              | 0                | 1                | 0                | 0                | 1               | 3354        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 2               | 515            | Steel Protective Coating | 89             | 88               | 0                | 1                | 0                | 1               | 3342        | <input type="checkbox"/> Requested |

Structure Number: 200021

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               |
|-------------------------------------------------------|-----------------|----------------|------------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Caps              | 1               | 234            | Reinforced Concrete Pier Cap | 27             | 27               | 0                | 0                | 0                | 0               | 3348        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Caps                         | 1               | 515            | Steel Protective Coating     | 242            | 242              | 0                | 0                | 0                | 0               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 1               | 228            | Timber Pile                  | 1              | 1                | 0                | 0                | 0                | 0               | 3344        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Piles and Columns            | 1               | 515            | Steel Protective Coating     | 5302           | 5302             | 0                | 0                | 0                | 0               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 2               | 228            | Timber Pile                  | 1              | 0                | 1                | 0                | 0                | 0               | 3344        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Piles and Columns            | 2               | 515            | Steel Protective Coating     | 5302           | 5302             | 0                | 0                | 0                | 0               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 3               | 228            | Timber Pile                  | 1              | 1                | 0                | 0                | 0                | 0               | 3344        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Piles and Columns            | 3               | 515            | Steel Protective Coating     | 5302           | 5302             | 0                | 0                | 0                | 0               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 4               | 228            | Timber Pile                  | 1              | 1                | 0                | 0                | 0                | 0               | 3344        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Piles and Columns            | 4               | 515            | Steel Protective Coating     | 5302           | 5302             | 0                | 0                | 0                | 0               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 5               | 228            | Timber Pile                  | 1              | 1                | 0                | 0                | 0                | 0               | 3344        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Piles and Columns            | 5               | 515            | Steel Protective Coating     | 5302           | 5302             | 0                | 0                | 0                | 0               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 6               | 228            | Timber Pile                  | 1              | 1                | 0                | 0                | 0                | 0               | 3344        | <input type="checkbox"/> Requested |
| <input type="checkbox"/> Piles and Columns            | 6               | 515            | Steel Protective Coating     | 5302           | 5302             | 0                | 0                | 0                | 0               | 3342        | <input type="checkbox"/> 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               |
|-----------------------------------------------|-----------------|----------------|------------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Abutments | 1               | 215            | Reinforced Concrete Abutment | 33             | 33               | 0                | 0                | 0                | 0               | 3350        | <input type="checkbox"/> 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               |
|-------------------------------------------------------|-----------------|----------------|--------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Caps              | 1               | 231            | Steel Pier Cap           | 36             | 26               | 10               | 0                | 0                | 0               | 3354        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Caps              | 1               | 515            | Steel Protective Coating | 1              | 0                | 1                | 0                | 0                | 1               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 1               | 225            | Steel Pile               | 1              | 0                | 1                | 0                | 0                | 0               | 3354        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 1               | 515            | Steel Protective Coating | 89             | 88               | 0                | 1                | 0                | 1               | 3342        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 2               | 225            | Steel Pile               | 1              | 0                | 1                | 0                | 0                | 0               | 3354        | <input type="checkbox"/> Requested |
| <input checked="" type="checkbox"/> Piles and Columns | 2               | 515            | Steel Protective Coating | 89             | 88               | 0                | 1                | 0                | 1               | 3342        | <input type="checkbox"/> Requested |

# Substructure Element Defect Descriptions

Structure Number: 200021

Inspection Date: 11/12/2014

## End Bent 1

| End Bent 1 | Row 1 | Abutments | 1 |
|------------|-------|-----------|---|
|------------|-------|-----------|---|

Element: 215 Name Reinforced Concrete Abutment Qty: 33 Lvl 2: 12 Lvl 3: 1 Lvl 4: 0 Maint. Qty 1

Defect Description:

12 Feet of Patched Area: Patched area that is sound.

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

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

Crutch Bent

Element: 231 Name Steel Pier Cap Qty: 36 Lvl 2: 10 Lvl 3: 1 Lvl 4: 0 Maint. Qty 1

Defect Description:

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

1 Feet of Corrosion: Section loss is evident or pack rust is present at bearing 1, but does not warrant structural review.

1 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 0

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 |
|--------|-------|-------------------|---|
|--------|-------|-------------------|---|

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 1 | Row 1 | Piles and Columns | 2 |
|--------|-------|-------------------|---|
|--------|-------|-------------------|---|

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 in top of south face.

| Span 2 | 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 0

Defect Description:

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

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

| Span 2 | 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 0

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 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 0

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: 200021

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   | 7     |
| 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     | 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 | 8     |             |             |
| 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      | 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      | Y     |

# National Bridge and NC SMU Inspection Item Details

Structure Number: 200021

Inspection Date: 11/12/2014

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|         |                                      |       |   |            |      |   |
|---------|--------------------------------------|-------|---|------------|------|---|
| Item    | Approach Roadway Alignment - Item 72 | Grade | 8 | Maint Code | Qty. | 0 |
| Details | Settled area at end bent 2. (1")     |       |   |            |      |   |

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|         |                  |       |   |            |      |   |
|---------|------------------|-------|---|------------|------|---|
| Item    | Presently Posted | Grade | N | Maint Code | Qty. | 0 |
| Details | Not posted.      |       |   |            |      |   |

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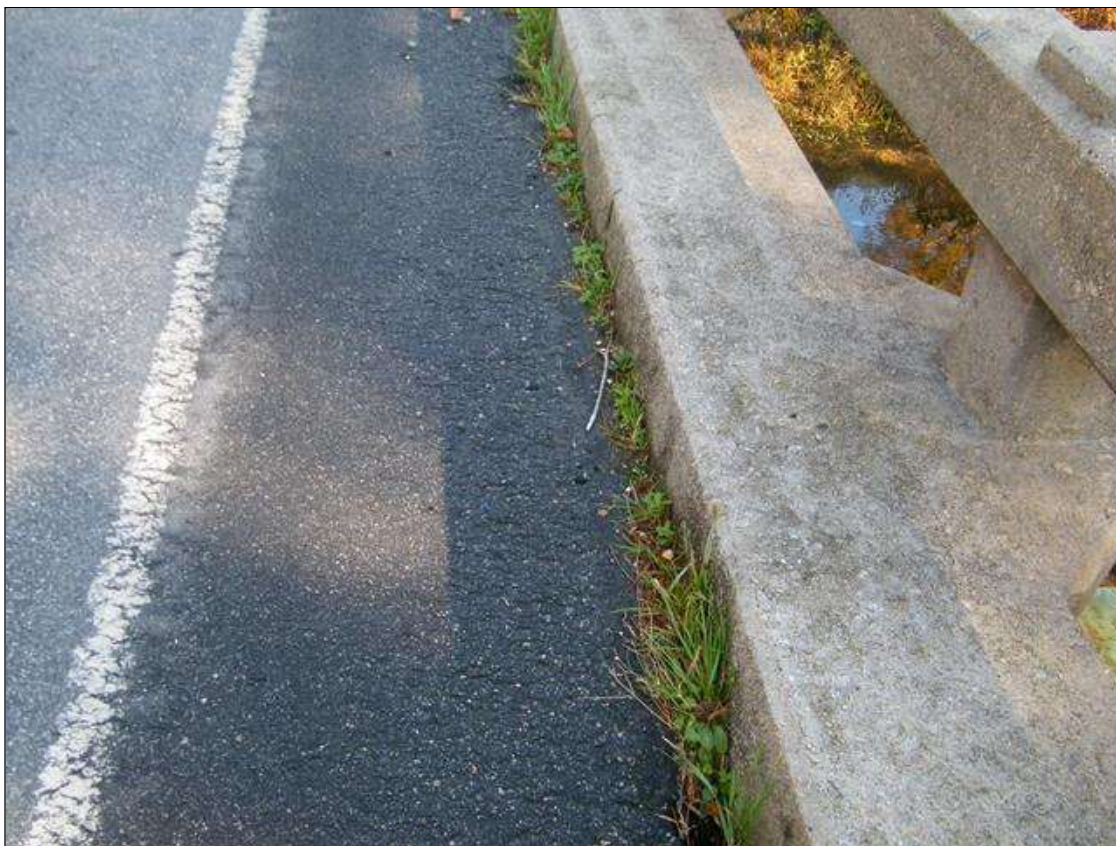
|         |                      |       |   |            |      |   |
|---------|----------------------|-------|---|------------|------|---|
| Item    | Other Equipment Used | Grade | Y | Maint Code | Qty. | 0 |
| Details | Boots.               |       |   |            |      |   |

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|         |                                  |       |   |            |      |      |    |
|---------|----------------------------------|-------|---|------------|------|------|----|
| Item    | Deck Debris                      | Grade | F | Maint Code | 3376 | Qty. | 20 |
| Details | TRASH AND DEBRIS ADJACENT RAILS. |       |   |            |      |      |    |

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|         |                            |       |   |            |      |      |   |
|---------|----------------------------|-------|---|------------|------|------|---|
| Item    | Wingwalls                  | Grade | F | Maint Code | 3350 | Qty. | 0 |
| Details | Soft and decayed in areas. |       |   |            |      |      |   |



TRASH AND DEBRIS ADJACENT RAILS.



Span 1 Wearing Surface: 26 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. at end bent 1.



Span 1 Left Bridge Rail: 10 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.



Span 2 Right Bridge Rail: 6 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.



Span 2 Left Bridge Rail: 5 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.



Span 2 Wearing Surface: 26 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.



End Bent 1 Abutment/Backwall : 12 Feet of Patched Area: Patched area that is sound.



End Bent 1 Abutment/Backwall : 1 Feet of Spalled Area: Spall greater than 1 in. deep or greater than 6 in. diameter.  
Does not warrant structural review in top section.



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



Bent 1 Cap : 1 Feet of Corrosion: Section loss is evident or pack rust is present at bearing 1, but does not warrant structural review.



Span 1 Channel/Slab 1: 2 Feet of Cracking (RC and Other): Width less than 0.012 in. or spacing greater than 3.0 ft.



Bent 1 Pile 2: 1 Each of Decay/Section Loss: Affects less than 10% of the member section



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



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



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



LOOKING NORTH



ROADWAY APPROACH



LOOKING WEST DOWNSTREAM



LOOKING EAST UPSTREAM



WEARING SURFACE



WEARING SURFACE



LOOKING SOUTH



EAST SIDE



WEST SIDE



END BENT 1



SPAN 1 CRUTCH BENT



BENT 1



SPAN 2 CRUTCH BENT



END BENT 2



Settled area at end bent 2. (1")

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

Run Date: 03/19/2015

| IDENTIFICATION                                           |           |                |  |                                                            |                       |       |               |
|----------------------------------------------------------|-----------|----------------|--|------------------------------------------------------------|-----------------------|-------|---------------|
| (1) STATE NAME -NORTH CAROLINA                           | BRIDGE    | 200021         |  | SUFFICIENCY RATING =                                       |                       | 45.94 |               |
| (8) STRUCTURE NUMBER(FEDERAL)                            |           | 00000000410021 |  | 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 - SAND RUN                       |           |                |  | (104)HIGHWAY SYSTEM Is not on NHS                          |                       |       | 0             |
| (7) FACILITY CARRIED NC32                                |           |                |  | (26) FUNCTIONAL CLASS - Minor Arterial                     |                       |       | 06            |
| (9) LOCATION 1.0 MI S JCT SR 1303                        |           |                |  | (100)STRAHNET HIGHWAY - Not a STRAHNET Route               |                       |       | 0             |
| (11)MILEPOINT                                            |           | 0              |  | (101)PARALLEL STRUCTURE - No Parallel Structure            |                       |       | N             |
| (16)LAT 36° 18' 0.14" (17)LONG 76° 38' 17.55"            |           |                |  | (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             |
|                                                          |           |                |  | (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 :                               |           |                |  | CONDITION                                                  |                       |       | CODE          |
| TYPE -                                                   |           | CODE 000       |  | (58) DECK                                                  |                       |       | 6             |
| (45) NUMBER OF SPANS IN MAIN UNIT                        |           | 4              |  | (59) SUPERSTRUCTURE                                        |                       |       | 6             |
| (46) NUMBER OF APPROACH SPANS                            |           |                |  | (60) SUBSTRUCTURE                                          |                       |       | 5             |
| (107)DECK STRUCTURE TYPE - 1                             |           | CODE           |  | (61) CHANNEL & CHANNEL PROTECTION                          |                       |       | 7             |
| (108)WEARING SURFACE / PROTECTIVE SYSTEM :               |           |                |  | (62) CULVERTS                                              |                       |       | N             |
| (A) TYPE OF WEARING SURFACE -                            |           | CODE           |  | LOAD RATING AND POSTING                                    |                       |       | CODE          |
| (B) TYPE OF MEMBRANE -                                   |           | CODE           |  | (31) DESIGN LOAD H 15                                      |                       |       | 2             |
| (C) TYPE OF DECK PROTECTION -                            |           | CODE           |  | (63) OPERATING RATING METHOD - Load Factor                 |                       |       | 1             |
|                                                          |           |                |  | (64) OPERATING RATING - HS-16                              |                       |       | 28            |
|                                                          |           |                |  | (65) INVENTORY RATING METHOD - Load Factor                 |                       |       | 1             |
|                                                          |           |                |  | (66) INVENTORY RATING - HS-9                               |                       |       | 16            |
|                                                          |           |                |  | (70) BRIDGE POSTING - No Posting Required                  |                       |       | 5             |
|                                                          |           |                |  | (41) STRUCTURE OPEN, POSTED ,OR CLOSED                     |                       |       | A             |
|                                                          |           |                |  | DESCRIPTION - Open, No Restriction                         |                       |       |               |
| AGE AND SERVICE                                          |           |                |  | APPRAISAL                                                  |                       |       |               |
| (27) YEAR BUILT                                          |           | 1922           |  | (67) STRUCTURAL EVALUATION                                 |                       |       | 4             |
| (106)YEAR RECONSTRUCTED                                  |           | 1952           |  | (68) DECK GEOMETRY                                         |                       |       | 3             |
| (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                               |                       |       | 0000          |
| (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT                |           | 8%             |  | (113)SCOUR CRITICAL BRIDGES                                |                       |       | 5             |
| (19) BYPASS OR DETOUR LENGTH                             |           | 5 MI           |  | PROPOSED IMPROVEMENTS                                      |                       |       |               |
| GEOMETRIC DATA                                           |           |                |  | (75) TYPE OF WORK -                                        |                       |       | CODE          |
| (48) LENGTH OF MAXIMUM SPAN                              |           | 7 FT           |  | (76) LENGTH OF STRUCTURE IMPROVEMENT                       |                       |       |               |
| (49) STRUCTURE LENGTH                                    |           | 30 FT          |  | (94) BRIDGE IMPROVEMENT COST                               |                       |       |               |
| (50)CURB OR SIDEWALK: LEFT 1.667 FT RIGHT 1.667 FT       |           |                |  | (95) ROADWAY IMPROVEMENT COST                              |                       |       |               |
| (51) BRIDGE ROADWAY WIDTH CURB TO CURB                   |           | 26.083 FT      |  | (96) TOTAL PROJECT COST                                    |                       |       |               |
| (52) DECK WIDTH OUT TO OUT                               |           | 27.833 FT      |  | (97) YEAR OF IMPROVEMENT COST ESTIMATE                     |                       |       |               |
| (32) APPROACH ROADWAY WIDTH (W/SHOULDERS)                |           | 20 FT          |  | (114)FUTURE ADT 4400 (115) YEAR FUTURE ADT 2025            |                       |       |               |
| (33) BRIDGE MEDIAN - No Median                           |           | CODE 0         |  | INSPECTIONS                                                |                       |       |               |
| (34) SKEW 0° (35) STRUCTURE FLARED                       |           | 0              |  | (90) INSPECTION DATE                                       |                       |       | 11/12/2014    |
| (10) INVENTORY ROUTE MIN VERT CLEAR                      |           | 999.9 FT       |  | (92) CRITICAL FEATURE INSPECTION :                         |                       |       | (93) CFI DATE |
| (47) INVENTORY ROUTE TOTAL HORIZ CLEAR                   |           | 26.083 FT      |  | A) FRACTURE CRIT DETAIL - NO                               |                       |       | A)            |
| (53) MIN VERT CLEAR OVER BRIDGE RDWY                     |           | 999.9 FT       |  | B) UNDERWATER INSP - NO                                    |                       |       | B)            |
| (54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad   |           | 0 FT           |  | C) OTHER SPECIAL INSP NO                                   |                       |       | C)            |
| (55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad |           | 000 FT         |  | SCOUR                                                      |                       |       |               |
| (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: 03/19/2015

|          |            |            |                    |          |      |
|----------|------------|------------|--------------------|----------|------|
| COUNTY : | DIVISION : | DISTRICT : | STRUCTURE NUMBER : | LENGTH : |      |
| CHOWAN   | 1          | 3          | 200021             | 30       | FEET |

|                 |                       |
|-----------------|-----------------------|
| ROUTE CARRIED : | FEATURE INTERSECTED : |
| NC32            | SAND RUN              |

|                      |               |        |
|----------------------|---------------|--------|
| LOCATED :            | BRIDGE NAME : | CITY : |
| 1.0 MI S JCT SR 1303 |               |        |

|               |           |              |            |               |
|---------------|-----------|--------------|------------|---------------|
| FUNC. CLASS : | SYST.ON : | SYST.UNDER : | ADT & YR : | RAIL TYPE :   |
| 06            | FA        | NFA          | 2200 2013  | LT 141 RT 141 |

|         |       |        |                |               |
|---------|-------|--------|----------------|---------------|
| BUILT : | BY :  | PROJ : | FED.AID PROJ : | DESIGN LOAD : |
| 1922    | 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 |  | 11 FT             |  | 2             |  | FT |

SUPERSTRUCTURE : CONT MONOLITHIC SLAB

SUBSTRUCTURE : RC FULL HGT ABUT;INT.BT:RC CAP/TIM.PILES;STL.CRUTCH BTS

SPANS : 4@7.5' CONT.

BEAMS OR GIRDERS : CONT.MONOLITHIC SLAB

|             |                |                     |
|-------------|----------------|---------------------|
| FLOOR :     | ENCROACHMENT : | DECK (OUT TO OUT) : |
| 12 RC/2 AWS |                | 27.833 FT           |

|                 |                 |                         |
|-----------------|-----------------|-------------------------|
| CLEAR ROADWAY : | BETWEEN RAILS : | SIDEWALK OR CURB :      |
| 26.083 FT       | 29.417 FT       | LT 1.667 FT RT 1.667 FT |

VERT.CL.OVER :  
999.9 FT

|            |            |                 |          |      |            |
|------------|------------|-----------------|----------|------|------------|
| INV.RTG. : | OPE.RTG. : | CONTR.MEMBER :  | POSTED : |      | DATE       |
| HS-9       | HS-16      | Monolithic slab | SV       | TTST | 04/06/1995 |

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

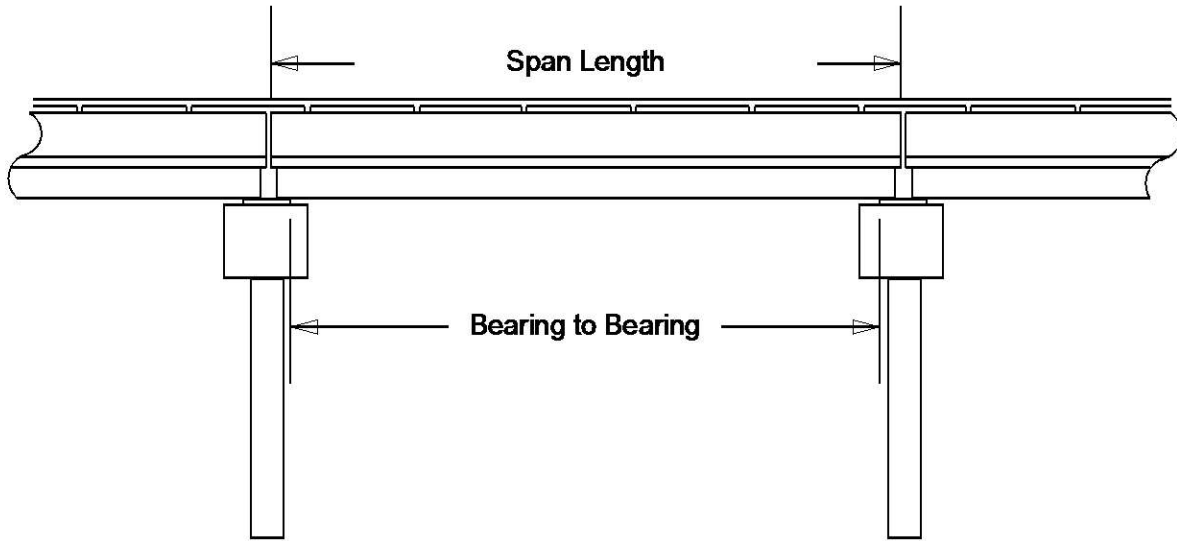
UNDER ROUTES AND CLEARANCES

REMARKS :

# Structure Data Worksheet

Spans

County: CHOWAN Structure No: 200021 Date: \_\_\_\_\_ Inspected By: ZSD



| Span No | Span Length | Bearing to Bearing | Comments   |
|---------|-------------|--------------------|------------|
| 1       | 7.5'        | 7'                 | NBIS - 28' |
| 2       | 7.5'        | 7'                 |            |
| 3       | 7.5'        | 7'                 |            |
| 4       | 7.5'        | 7'                 |            |

# Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 200021      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<br>(Station) (ft) | Sounding<br>(ft) | Description | Distance<br>(Station) (ft) | Sounding<br>(ft) | Description |
| 2                          | 3.7              | TOP OF CAP  |                            |                  |             |
| 2.1                        | 9.1              | ABUT 1      | 2.1                        | 7.9              | ABUT 1      |
| 8                          | 11.4             | WSWE        |                            |                  |             |
| 10                         | 11.7             | BENT1       | 10                         | 11.4             | BENT1       |
| 13.5                       | 12.3             | GROUND      |                            |                  |             |
| 19                         | 12.4             | BENT 2      | 19                         | 12.9             | BENT 2      |
| 29                         | 13.6             | BENT 3      | 29                         | 13.2             | BENT 3      |
| 35.9                       | 10.3             | ABUT 2      | 35.9                       | 12.9             | ABUT 2      |
| 35.9                       | 11.4             | WSWE        |                            |                  |             |
| 36                         | 3.7              | TOP OF CAP  |                            |                  |             |

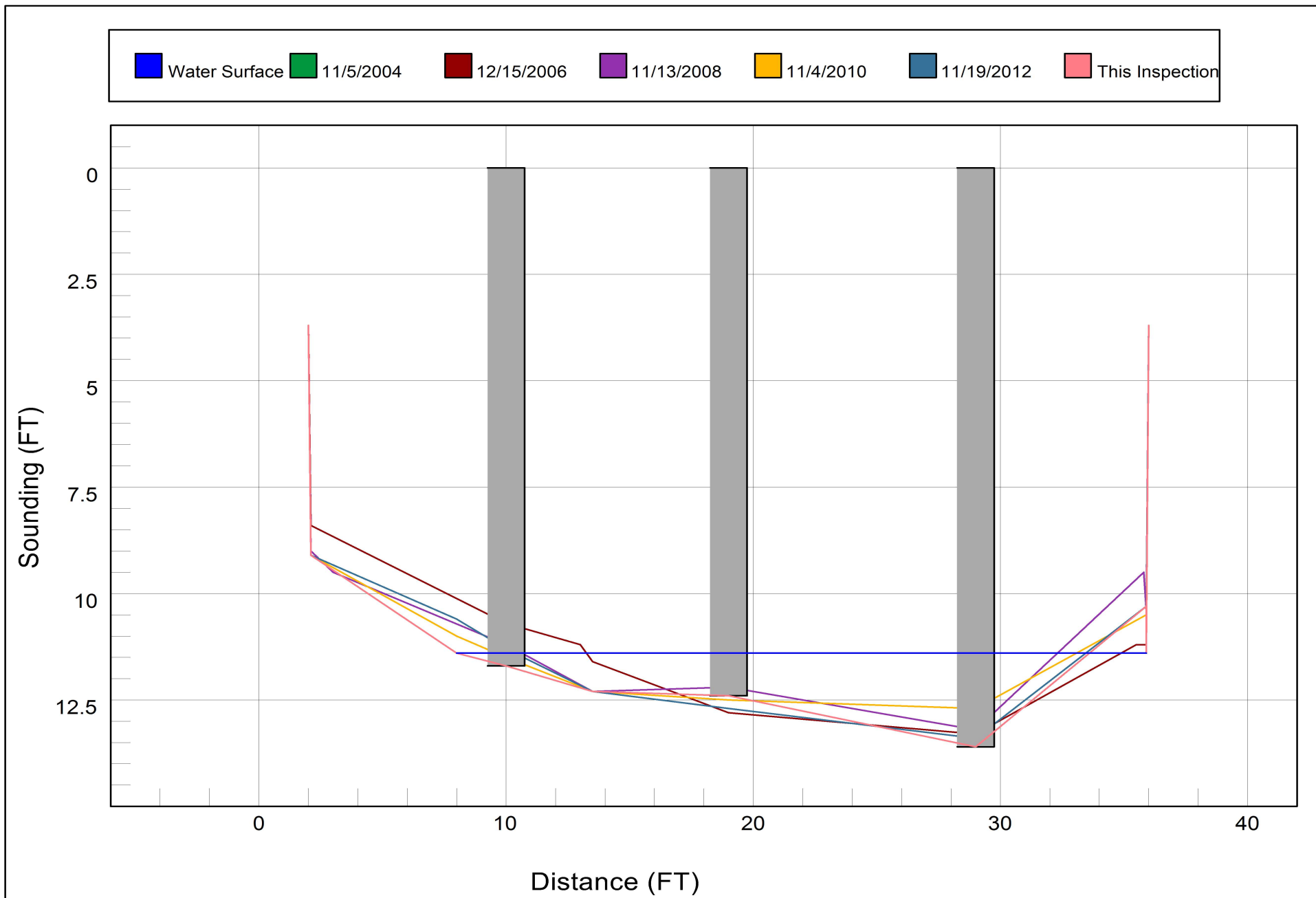
Bridge: 200021

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 |           |               |               |

11/12/114. ZSD

**Title**

APPROACH ROADWAY

**Description**

APPROACH ROADWAY

Bridge No: 200021

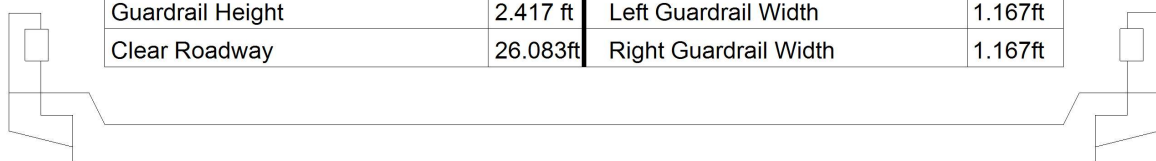
Drawn By: GLH

Date: 11/19/2012

File Name: S0034000132

# Bridge Inspection Field Sketch

|                  |          |                       |         |
|------------------|----------|-----------------------|---------|
| Out to Out       | 27.833ft | Wearing Surface       | 0.167ft |
| Between Rails    | 29.417ft | Median Width          |         |
| Curb Height      | 0.667ft  | Median Height         |         |
| Guardrail Height | 2.417 ft | Left Guardrail Width  | 1.167ft |
| Clear Roadway    | 26.083ft | Right Guardrail Width | 1.167ft |



|                               |       |                |  |
|-------------------------------|-------|----------------|--|
| Measurements for Span #       | 1     |                |  |
| Deck Thickness                | 1     | Left Overhang  |  |
| Top of Rail to Bottom of Beam | 3.917 | Right Overhang |  |

11/12/114. ZSD

## Title

TYPICAL SECTION

## Description

TYPICAL SECTION

Bridge No: 200021

Drawn By: GLH

Date: 11/19/2012

File Name: S0034000138

# Bridge Inspection Field Sketch



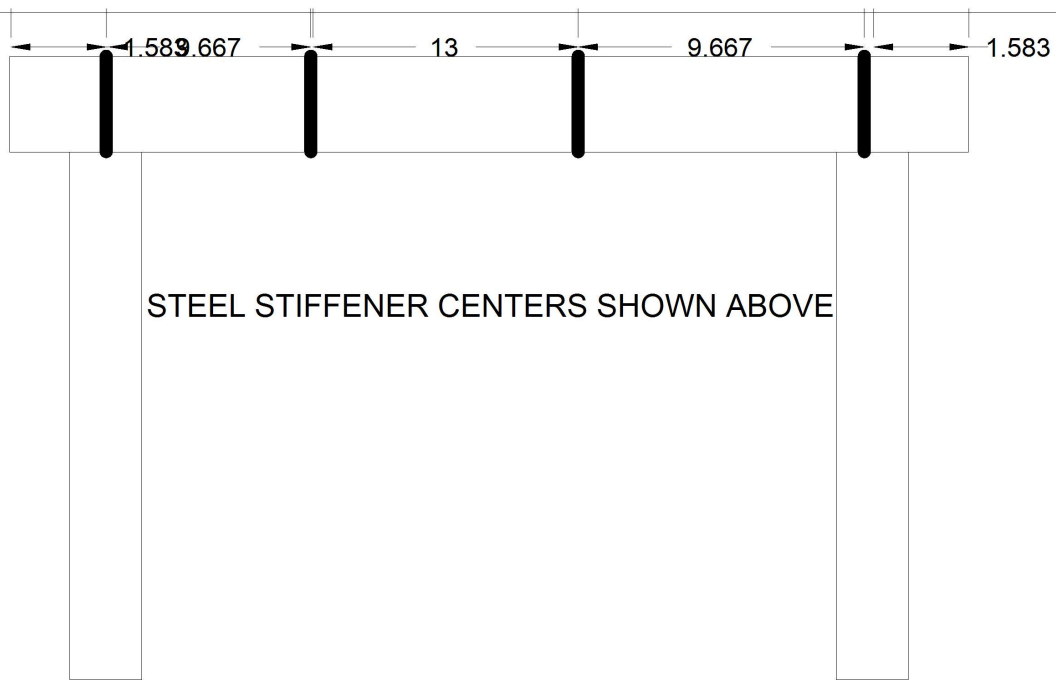
|                |               |             |              |
|----------------|---------------|-------------|--------------|
| Bent #         | 2             |             |              |
| Cap - Pre-Cast |               |             |              |
| Cap Size       | 26.833ft Long | 2.25ft Wide | 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  |        | 1.250 ft    |        | Vertical    |
| 2      | Wood or Timber | Solid Pier | 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  | 4.5 ft  |        | 1.250 ft    |        | Vertical    |
| 6      | Wood or Timber | Pile Bent  |         |        | 1.250 ft    |        | Vertical    |

11/12/114. ZSD

|                                     |               |                                               |                        |
|-------------------------------------|---------------|-----------------------------------------------|------------------------|
| <b>Title</b><br>BENT 2 SUBSTRUCTURE |               | <b>Description</b><br>PILE DIAGRAM FOR BENT 2 |                        |
| Bridge No: 200021                   | Drawn By: GLH | Date: 11/19/2012                              | File Name: S0034000139 |

# Bridge Inspection Field Sketch



|                                 |             |                 |             |
|---------------------------------|-------------|-----------------|-------------|
| Bent #                          | 1           | Bents 3 similar |             |
| Cap - Beam Type (Wood or Steel) |             |                 |             |
| Cap Size                        | 35.5ft Long | 0.958ft Wide    | 2.75ft High |
| Left Overhang                   | 1.417ft     |                 |             |
| Right Overhang                  | 1.417ft     |                 |             |

| Pile # | Material | Pile Type | Spacing | Length | Width/Diam. | Height | Orientation |
|--------|----------|-----------|---------|--------|-------------|--------|-------------|
| 1      | Steel    | Pile Bent | 33 ft   |        | 1 ft        |        | Vertical    |
| 2      | Steel    | Pile Bent |         |        | 1 ft        |        | Vertical    |

11/12/114. ZSD

## Title

BENT 1 AND 3 SUBSTRUCTURE

## Description

PILE DIAGRAM FOR BENT 1 AND 3

Bridge No: 200021

Drawn By: GLH

Date: 11/19/2012

File Name: S0034000140