



NC DEPARTMENT OF TRANSPORTATION      ATTENTION:  
DIVISION OF HIGHWAYS  
STRUCTURE MANAGEMENT UNIT

## Structure Safety Report

### Routine Element Inspection

COUNTY: COLUMBUS      STRUCTURE NUMBER: 230060      FREQUENCY: 24 MONTHS

FACILITY CARRIED: US701      MILE POST: \_\_\_\_\_

LOCATION: 200"N.JCT.SR1005

FEATURE INTERSECTED: PRONG CREEK

LATITUDE: 34° 25' 56.94"      LONGITUDE: 78° 43' 53.34"

SUPERSTRUCTURE: 2-TRIPLE 8"X8"RCBC;37"ALONG CENTERLINE CULVERT

SUBSTRUCTURE: \_\_\_\_\_

SPANS: \_\_\_\_\_

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

PRESENT CONDITION: Fair      INSPECTION DATE: 06/23/2015

POSTED SV: Not Posted      POSTED TTST: Not Posted

OTHER SIGNS PRESENT: 3 DELINEATORS



LOOKING NORTH

| Sign noticed issued for |                 | Number Required |
|-------------------------|-----------------|-----------------|
| <u>NO</u>               | WEIGHT LIMIT    | <u>0</u>        |
| <u>YES</u>              | DELINEATORS     | <u>1</u>        |
| <u>NO</u>               | NARROW BRIDGE   | <u>0</u>        |
| <u>NO</u>               | ONE LANE BRIDGE | <u>0</u>        |
| <u>NO</u>               | LOW CLEARANCE   | <u>0</u>        |

|                               |                                   |                          |
|-------------------------------|-----------------------------------|--------------------------|
| INSPECTED BY<br>Ray L. Kisner | SIGNATURE<br><i>Ray L. Kisner</i> | ASSISTED BY    R.D.Heath |
|-------------------------------|-----------------------------------|--------------------------|

# Span Element Report

Structure Number: 230060

Inspection Date: 06/23/2015

Span Number 1

Span Length 8 Feet

Number of Sections: 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 |
|----------------|---------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|
| 241            |               | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        |

"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 37 Feet

Number of Sections: 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 |
|----------------|---------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|
| 241            |               | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        |

"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 8 Feet

Number of Sections: 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 |
|----------------|---------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|
| 241            |               | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        |

"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 8 Feet

Number of Sections: 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 |
|----------------|---------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|
| 241            |               | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        |

"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 5

Span Length 8 Feet

Number of Sections: 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 |
|----------------|---------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|
| 241            |               | Reinforced Concrete Culvert | 37             | 0                | 36               | 1                | 0                | 37              | 3370        |

"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 6

Span Length 8 Feet

Number of Sections: 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 |
|----------------|---------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|
| 241            |               | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        |

"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 Quantites

Structure Number: 230060

Inspection Date: 06/23/2015

Span Number 1

| Element Location                                       | Location Number | Element Number | Element Name                | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity | Maint. Quantity | Maint. Code | Priority Maintenance               |
|--------------------------------------------------------|-----------------|----------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Culverts and Pipes | 1               | 241            | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        | <input type="checkbox"/> 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               |
|--------------------------------------------------------|-----------------|----------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Culverts and Pipes | 1               | 241            | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        | <input type="checkbox"/> Requested |

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               |
|--------------------------------------------------------|-----------------|----------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Culverts and Pipes | 1               | 241            | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        | <input type="checkbox"/> Requested |

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               |
|--------------------------------------------------------|-----------------|----------------|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-------------|------------------------------------|
| <input checked="" type="checkbox"/> Culverts and Pipes | 1               | 241            | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        | <input type="checkbox"/> Requested |

Span Number 5

| 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"/> Culverts and Pipes | 1               | 241            | Reinforced Concrete Culvert | 37             | 0                | 36               | 1                | 0                | 37              | 3370        | <input type="checkbox"/> Requested |

Structure Number: 230060

Inspection Date: 06/23/2015

Span Number 6

| 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"/> Culverts and Pipes | 1               | 241            | Reinforced Concrete Culvert | 37             | 0                | 37               | 0                | 0                | 37              | 3370        | <input type="checkbox"/> Requested |

## Superstructure Element Defect Descriptions

Structure Number: 230060

Inspection Date: 06/23/2015

Span Number 1

|              |                    |                             |                 |    |                                 |    |       |   |       |   |            |    |
|--------------|--------------------|-----------------------------|-----------------|----|---------------------------------|----|-------|---|-------|---|------------|----|
| Span 1       | Culverts and Pipes | 1                           | Component Name: |    | Reinforced Concrete Box Culvert |    |       |   |       |   |            |    |
| Element: 241 | Name               | Reinforced Concrete Culvert | Qty:            | 37 | Lvl 2:                          | 37 | Lvl 3 | 0 | Lvl 4 | 0 | Maint. Qty | 37 |

Defect Description:

6 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. 6 FT PATCHED AREA IN TOP SLAB AT WEST END

31 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. EXPOSED AGGREGATE ALONG WALLS 3' HIGH

Span Number 2

|              |                    |                             |                 |    |                                 |    |       |   |       |   |            |    |
|--------------|--------------------|-----------------------------|-----------------|----|---------------------------------|----|-------|---|-------|---|------------|----|
| Span 2       | Culverts and Pipes | 1                           | Component Name: |    | Reinforced Concrete Box Culvert |    |       |   |       |   |            |    |
| Element: 241 | Name               | Reinforced Concrete Culvert | Qty:            | 37 | Lvl 2:                          | 37 | Lvl 3 | 0 | Lvl 4 | 0 | Maint. Qty | 37 |

Defect Description:

6 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND PATCH IN TOP SLAB AT WEST END

31 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. EXPOSED AGGREGATE IN WALLS 3' HIGH

Span Number 3

|              |                    |                             |                 |    |                                 |    |       |   |       |   |            |    |
|--------------|--------------------|-----------------------------|-----------------|----|---------------------------------|----|-------|---|-------|---|------------|----|
| Span 3       | Culverts and Pipes | 1                           | Component Name: |    | Reinforced Concrete Box Culvert |    |       |   |       |   |            |    |
| Element: 241 | Name               | Reinforced Concrete Culvert | Qty:            | 37 | Lvl 2:                          | 37 | Lvl 3 | 0 | Lvl 4 | 0 | Maint. Qty | 37 |

Defect Description:

10 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND PATCH IN TOP SLAB AT WEST END

27 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. EXPOSED AGGREGATE IN WALLS 3' HIGH

Span Number 4

|              |                    |                             |                 |    |                                 |    |        |   |        |   |             |    |
|--------------|--------------------|-----------------------------|-----------------|----|---------------------------------|----|--------|---|--------|---|-------------|----|
| Span 4       | Culverts and Pipes | 1                           | Component Name: |    | Reinforced Concrete Box Culvert |    |        |   |        |   |             |    |
| Element: 241 | Name               | Reinforced Concrete Culvert | Qty:            | 37 | Lvl 2:                          | 37 | Lvl 3: | 0 | Lvl 4: | 0 | Maint. Qty: | 37 |

Defect Description:

9 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. **SOUND PATCHES IN TOP SLAB AT MIDSPAN AND EAST END**

28 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. EXPOSED AGGREGATE IN WALLS 3' HIGH

Span Number 5

|              |                    |                             |                 |    |                                 |    |        |   |        |   |            |    |
|--------------|--------------------|-----------------------------|-----------------|----|---------------------------------|----|--------|---|--------|---|------------|----|
| Span 5       | Culverts and Pipes | 1                           | Component Name: |    | Reinforced Concrete Box Culvert |    |        |   |        |   |            |    |
| Element: 241 | Name               | Reinforced Concrete Culvert | Qty:            | 37 | Lvl 2:                          | 36 | Lvl 3: | 1 | Lvl 4: | 0 | Maint. Qty | 37 |

Defect Description:

10 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. **SOUND PATCHES IN TOP SLAB**

1 Foot of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review. TOP SLAB SPALL 12" DIAMETER X 1 1/2" DEEP WITH 3" EXPOSED REBAR AT EAST END.

26 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. EXPOSED AGGREGATE IN WALLS 3' HIGH

Span Number 6

|              |                    |                             |                 |    |                                 |    |        |   |        |   |             |    |
|--------------|--------------------|-----------------------------|-----------------|----|---------------------------------|----|--------|---|--------|---|-------------|----|
| Span 6       | Culverts and Pipes | 1                           | Component Name: |    | Reinforced Concrete Box Culvert |    |        |   |        |   |             |    |
| Element: 241 | Name               | Reinforced Concrete Culvert | Qty:            | 37 | Lvl 2:                          | 37 | Lvl 3: | 0 | Lvl 4: | 0 | Maint. Qty: | 37 |

Defect Description:

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12 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND REPAIRS IN TOP SLAB

25 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. EXPOSED AGGREGATE IN WALLS 3' HIGH

# National Bridge and NC Inspection Items

Structure Number: 230060

Inspection Date: 06/23/2015

## National Bridge Inventory Items

| Item                                    | Grade Scale | Grade |
|-----------------------------------------|-------------|-------|
| Item 58: Deck                           | 0 - 9 , N   | N     |
| Item 59: Superstructure                 | 0 - 9 , N   | N     |
| Item 60: Substructure                   | 0 - 9 , N   | N     |
| Item 61: Channel and Channel Protection | 0 - 9 , N   | 6     |
| Item 62: Culvert                        | 0 - 9 , N   | 5     |
| 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 |
|--------------------------|---------------|-------|-------------|-------------|
| Headwall                 | G, F, P, or C | F     | 2           | 4675        |
| Wingwall                 | G, F, P, or C | F     | 4           | 3350        |
| Scour                    | G, F, P, or C | G     |             |             |
| Drift                    | G, F, P, or C | F     | 4           | 3366        |
| Estimated Remaining Life | G, F, P, or C | 10    |             |             |

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

## Inspection Information

| Item                                   | Grade Scale | Grade |
|----------------------------------------|-------------|-------|
| Regulatory Sign Noticed Issued         | YES/NO      | Y     |
| Priority Maintenance Request Submitted | YES/NO      | N     |
| Inspection Time                        | Hours       | 4     |
| 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: 230060

Inspection Date: 06/23/2015

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|      |                                      |       |   |            |  |      |   |
|------|--------------------------------------|-------|---|------------|--|------|---|
| Item | Approach Roadway Alignment - Item 72 | Grade | 8 | Maint Code |  | Qty. | 0 |
|------|--------------------------------------|-------|---|------------|--|------|---|

Details SURFACE SPALL 6" DIAMETER X 1/2" DEEP IN RIGHT RAIL AT SOUTHEAST CORNER 1 FT. MAINTENANCE  
DEBRIS ALONG RIGHT RAIL ( 1756 SQ. FT. DECK DEBRIS )  
RIGHT RAIL POSTS 4 AND 5 SURFACE SPALL ON TOP OF POSTS 1 FT. EACH =( 2 FT. MAINTENANCE )  
DEBRIS ALONG LEFT RAIL  
LEFT RAIL END POST SPALL 6" X 1 1/2" DEEP AT NORTHEAST CORNER ( 1 FT. MAINTENANCE )

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|      |                               |       |   |            |  |      |   |
|------|-------------------------------|-------|---|------------|--|------|---|
| Item | Regulatory Sign Notice Issued | Grade | Y | Maint Code |  | Qty. | 0 |
|------|-------------------------------|-------|---|------------|--|------|---|

Details 1 DELINEATOR NOT IN PLACE AT SOUTHWEST CORNER

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

Details BOOTS

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|      |       |       |   |            |      |      |   |
|------|-------|-------|---|------------|------|------|---|
| Item | Drift | Grade | F | Maint Code | 3366 | Qty. | 4 |
|------|-------|-------|---|------------|------|------|---|

Details DRIFT AT WEST END OF BARRELS 1, 2, AND 3 4 HRS.

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|      |           |       |   |            |      |      |   |
|------|-----------|-------|---|------------|------|------|---|
| Item | Headwalls | Grade | F | Maint Code | 4675 | Qty. | 2 |
|------|-----------|-------|---|------------|------|------|---|

Details WEST HEADWALL SPALLED 14" LONG X 3" HIGH X 3" DEEP OVER BARREL 4

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|      |           |       |   |            |      |      |   |
|------|-----------|-------|---|------------|------|------|---|
| Item | Wingwalls | Grade | F | Maint Code | 3350 | Qty. | 4 |
|------|-----------|-------|---|------------|------|------|---|

Details SOUTHWEST CORNER WINGWALL SPALLED 4' LONG X 8" HIGH X 2" DEEP ( 4 FT. MAINTENANCE )

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SURFACE SPALL 6" DIAMETER X 1/2" DEEP IN RIGHT RAIL AT SOUTHEAST CORNER 1 FT. MAINTENANCE



DEBRIS ALONG RIGHT RAIL





RIGHT RAIL POSTS 4 AND 5 SURFACE SPALL ON TOP OF POSTS 1 FT. EACH =( 2 FT. MAINTENANCE )



DEBRIS ALONG LEFT RAIL





LEFT RAIL END POST SPALL 6" X 1 1/2" DEEP AT NORTHEAST CORNER ( 1 FT. MAINTENANCE )



SOUTHWEST CORNER WINGWALL SPALLED 4' LONG X 8" HIGH X 2" DEEP ( 4 FT. MAINTENANCE )





DRIFT AT WEST END OF BARRELS 1, 2, AND 3 4 HRS.



Barrel 1 Section 1: 6 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. 6 FT PATCHED AREA IN TOP SLAB AT WEST END



Barrel 1 Section 1: 31 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. EXPOSED AGGREGATE ALONG WALLS 3' HIGH



Barrel 2 Section 1: 6 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND PATCH IN TOP SLAB AT WEST END





Barrel 3 Section 1: 10 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND PATCH IN TOP SLAB AT WEST END



WEST HEADWALL SPALLED 14" LONG X 3" HIGH X 3" DEEP OVER BARREL 4



Barrel 4 Section 1: 9 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND PATCHES IN TOP SLAB AT MIDSPAN AND EAST END



Barrel 5 Section 1: 10 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND PATCHES IN TOP SLAB





Barrel 5 Section 1: 1 Feet of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review. TOP SLAB SPALL 12" DIAMETER X 1 1/2" DEEP WITH 3" EXPOSED REBAR AT EAST END





Barrel 6 Section 1: 12 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SOUND REPAIRS IN TOP SLAB



LOOKING SOUTH



UPSTREAM WEST





DOWNSTREAM EAST



LOOKING NORTH





WEST PROFILE , INLET END



EAST PROFILE , OUTLET END

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

Run Date: 10/06/2015

| IDENTIFICATION                                           |                         |                |  |                                        |                         |               |  |
|----------------------------------------------------------|-------------------------|----------------|--|----------------------------------------|-------------------------|---------------|--|
| (1) STATE NAME -NORTH CAROLINA                           | BRIDGE                  | 230060         |  | SUFFICIENCY RATING =                   |                         | 80.76         |  |
| (8) STRUCTURE NUMBER(FEDERAL)                            |                         | 00000000470060 |  | STATUS =                               | Functionally Obsolete   |               |  |
| (5) INVENTORY ROUTE (ON/UNDER) - ON                      |                         | 21007010       |  |                                        |                         |               |  |
| (2) STATE HIGHWAY DEPARTMENT DISTRICT                    |                         | 3              |  | CLASSIFICATION                         |                         | CODE          |  |
| (3) COUNTY CODE 47                                       | (4) PLACE CODE          | 0              |  | (112)NBIS BRIDGE SYSTEM -              |                         | YES           |  |
| (6) FEATURE INTERSECTED - WESTERN PRONG CREEK            |                         |                |  | (104)HIGHWAY SYSTEM                    | Is not on NHS           | 0             |  |
| (7) FACILITY CARRIED US701                               |                         |                |  | (26) FUNCTIONAL CLASS -                | Minor Arterial          | 06            |  |
| (9) LOCATION 200' N.JCT.SR1005                           |                         |                |  | (100)STRAHNET HIGHWAY -                | Not a STRAHNET Route    | 0             |  |
| (11)MILEPOINT                                            |                         | 0              |  | (101)PARALLEL STRUCTURE -              | No Parallel Structure   | N             |  |
| (16)LAT 34° 25' 56.94"                                   | (17)LONG 78° 43' 53.34" |                |  | (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 - Culverts (includes frame culverts)                | CODE                    | 219            |  |                                        |                         |               |  |
| (44) STRUCTURE TYPE APPR :                               |                         |                |  | CONDITION                              |                         | CODE          |  |
| TYPE -                                                   | CODE                    | 000            |  | (58) DECK                              |                         | N             |  |
| (45) NUMBER OF SPANS IN MAIN UNIT                        |                         | 6              |  | (59) SUPERSTRUCTURE                    |                         | N             |  |
| (46) NUMBER OF APPROACH SPANS                            |                         |                |  | (60) SUBSTRUCTURE                      |                         | N             |  |
| (107)DECK STRUCTURE TYPE - N                             | CODE                    |                |  | (61) CHANNEL & CHANNEL PROTECTION      |                         | 6             |  |
| (108)WEARING SURFACE / PROTECTIVE SYSTEM :               |                         |                |  | (62) CULVERTS                          |                         | 5             |  |
| (A) TYPE OF WEARING SURFACE -                            | CODE                    |                |  | LOAD RATING AND POSTING                |                         | CODE          |  |
| (B) TYPE OF MEMBRANE -                                   | CODE                    |                |  | (31) DESIGN LOAD                       | HS 20                   | 5             |  |
| (C) TYPE OF DECK PROTECTION -                            | CODE                    |                |  | (63) OPERATING RATING METHOD -         | Load Factor             | 1             |  |
|                                                          |                         |                |  | (64) OPERATING RATING -                | HS-26                   | 46            |  |
|                                                          |                         |                |  | (65) INVENTORY RATING METHOD -         | Load Factor             | 1             |  |
|                                                          |                         |                |  | (66) INVENTORY RATING -                | HS-20                   | 36            |  |
|                                                          |                         |                |  | (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                                          |                         | 1931           |  | (67) STRUCTURAL EVALUATION             |                         | 5             |  |
| (106)YEAR RECONSTRUCTED                                  |                         |                |  | (68) DECK GEOMETRY                     |                         | 2             |  |
| (42) TYPE OF SERVICE : ON - Highway                      |                         |                |  | (69) UNDERCLEARANCES,VERTI & HORIZ     |                         | N             |  |
| UNDER - Waterway                                         | CODE                    | 15             |  | (71) WATERWAY ADEQUACY                 |                         | 7             |  |
| (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE               |                         | 0              |  | (72) APPROACH ROADWAY ALIGNMENT        |                         | 8             |  |
| (29) AVERAGE DAILY TRAFFIC                               |                         | 3400           |  | (36) TRAFFIC SAFETY FEATURES           |                         | 0000          |  |
| (30) YEAR OF ADT 2013                                    | (109) TRUCK ADT PCT     | 8%             |  | (113)SCOUR CRITICAL BRIDGES            |                         | 8             |  |
| (19) BYPASS OR DETOUR LENGTH                             |                         | 4 MI           |  | PROPOSED IMPROVEMENTS                  |                         |               |  |
| GEOMETRIC DATA                                           |                         |                |  | (75) TYPE OF WORK -                    |                         | CODE          |  |
| (48) LENGTH OF MAXIMUM SPAN                              |                         | 8 FT           |  | (76) LENGTH OF STRUCTURE IMPROVEMENT   |                         |               |  |
| (49) STRUCTURE LENGTH                                    |                         | 52 FT          |  | (94) BRIDGE IMPROVEMENT COST           |                         |               |  |
| (50)CURB OR SIDEWALK: LEFT 4.9935 FT RIGHT 4.9935 FT     |                         |                |  | (95) ROADWAY IMPROVEMENT COST          |                         |               |  |
| (51) BRIDGE ROADWAY WIDTH CURB TO CURB                   |                         | 24 FT          |  | (96) TOTAL PROJECT COST                |                         |               |  |
| (52) DECK WIDTH OUT TO OUT                               |                         | 37 FT          |  | (97) YEAR OF IMPROVEMENT COST ESTIMATE |                         |               |  |
| (32) APPROACH ROADWAY WIDTH (W/SHOULDERS)                |                         | 34 FT          |  | (114)FUTURE ADT 6800                   | (115) YEAR FUTURE ADT   | 2025          |  |
| (33) BRIDGE MEDIAN - No Median                           | CODE                    | 0              |  | INSPECTIONS                            |                         |               |  |
| (34) SKEW 0°                                             | (35) STRUCTURE FLARED   | 0              |  | (90) INSPECTION DATE                   |                         | 06/23/2015    |  |
| (10) INVENTORY ROUTE MIN VERT CLEAR                      |                         | 999.9 FT       |  | (92) CRITICAL FEATURE INSPECTION :     |                         | (93) CFI DATE |  |
| (47) INVENTORY ROUTE TOTAL HORIZ CLEAR                   |                         | 24 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: 10/06/2015

|          |            |            |                    |          |      |
|----------|------------|------------|--------------------|----------|------|
| COUNTY : | DIVISION : | DISTRICT : | STRUCTURE NUMBER : | LENGTH : |      |
| COLUMBUS | 6          | 3          | 230060             | 52       | FEET |

|                 |                       |
|-----------------|-----------------------|
| ROUTE CARRIED : | FEATURE INTERSECTED : |
| US701           | WESTERN PRONG CREEK   |

|                   |               |        |
|-------------------|---------------|--------|
| LOCATED :         | BRIDGE NAME : | CITY : |
| 200' N.JCT.SR1005 |               |        |

|               |           |              |            |               |
|---------------|-----------|--------------|------------|---------------|
| FUNC. CLASS : | SYST.ON : | SYST.UNDER : | ADT & YR : | RAIL TYPE :   |
| 06            | FA        | NFA          | 3400 2013  | LT 141 RT 141 |

|         |       |        |                |               |
|---------|-------|--------|----------------|---------------|
| BUILT : | BY :  | PROJ : | FED.AID PROJ : | DESIGN LOAD : |
| 1931    | SHPWC |        |                | HS 20         |

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

|              |         |  |                   |  |               |  |    |
|--------------|---------|--|-------------------|--|---------------|--|----|
| NAVIGATION : |         |  | HT. CRN. TO BED : |  | WATER DEPTH : |  |    |
| VC 0 FT      | HC 0 FT |  | 12 FT             |  | 2             |  | FT |

SUPERSTRUCTURE : 2-TRIPLE 8'X8' RCBC; 37'ALONG CENTERLINE OF CULVERT

SUBSTRUCTURE :

SPANS :

BEAMS OR GIRDERS :

|         |                |                     |
|---------|----------------|---------------------|
| FLOOR : | ENCROACHMENT : | DECK (OUT TO OUT) : |
|         |                | 37 FT               |

|                 |                 |                           |
|-----------------|-----------------|---------------------------|
| CLEAR ROADWAY : | BETWEEN RAILS : | SIDEWALK OR CURB :        |
| 24 FT           | 33.987 FT       | LT 4.9935 FT RT 4.9935 FT |

VERT.CL.OVER :  
999.9 FT

|            |            |                |          |      |      |
|------------|------------|----------------|----------|------|------|
| INV.RTG. : | OPE.RTG. : | CONTR.MEMBER : | POSTED : |      | DATE |
| HS-20      | HS-26      | RCBC           | SV       | TTST |      |

|                    |                    |
|--------------------|--------------------|
| SYSTEM :           | GREEN LINE ROUTE : |
| Primary U.S. Route | N                  |

UNDER ROUTES AND CLEARANCES

REMARKS :



# Bridge Inspection Field Sketch

( HIGHWAY US 701 NORTH )



|                 |               |               |               |
|-----------------|---------------|---------------|---------------|
| Roadway         | 23.083ft Wide | 2 Paved Lanes | Looking North |
| Left Shoulder   | 6.417ft Wide  | 5.417ft Paved | 1ft Unpaved   |
| Right Shoulder  | 8.417ft Wide  | 5.417ft Paved | 3ft Unpaved   |
| Left Guardrail  |               |               |               |
| Right Guardrail |               |               |               |

## Title

APPROACH ROADWAY

## Description

LOOKING NORTH

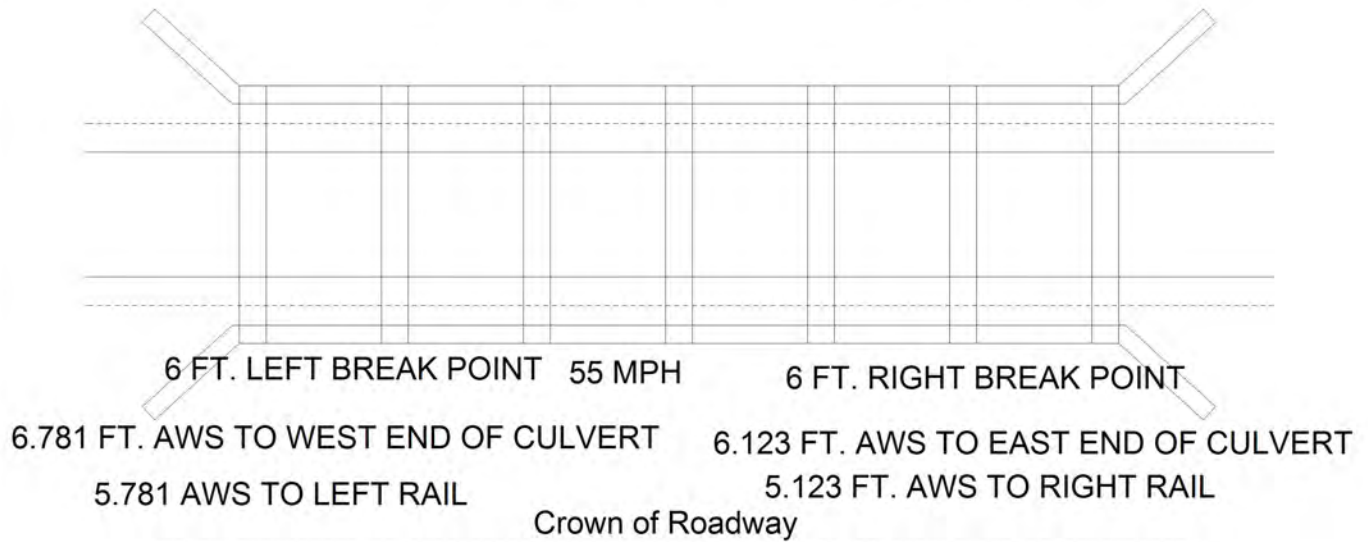
Bridge No: 230060

Drawn By: RLK

Date: 6/23/2015

File Name: S0286000030

# Bridge Inspection Field Sketch



Bed

| Number of Barrels                   | Skew                                | Distance From Crown to Bed |
|-------------------------------------|-------------------------------------|----------------------------|
| 6                                   | 90 °                                | 12.00 ft                   |
| Length Along Center Line of Culvert | Length Along Center Line of Roadway |                            |
| 37.00 ft                            | 51.664 ft                           |                            |

| Barrel # | Width | Height | Wall Thickness | Scour at Inlet | Scour at Outlet |
|----------|-------|--------|----------------|----------------|-----------------|
| 1        | 8ft   | 8ft    | .667ft         | 0              | 0               |
| 2        | 8ft   | 8ft    | .667ft         | 0              | 0               |
| 3        | 8ft   | 8ft    | 1.0ft          | 0              | 0               |
| 4        | 8ft   | 8ft    | .667ft         | 0              | 0               |
| 5        | 8ft   | 8ft    | .667ft         | 0              | 0               |
| 6        | 8ft   | 8ft    |                | 0              | 0               |

MEASUREMENTS VERIFIED BY RLK 6/21/11  
 MEASUREMENTS VERIFIED BY RLK 6/24/13  
 MEASUREMENTS VERIFIED BY RLK 6/23/15

THERE IS 20" OF WATER IN ALL 6 BARRELS ( 6/23/15 )

**Title**  
 6 LINES RC BOX CULVERT

**Description**  
 CULVERT

Bridge No: 230060

Drawn By: ERB

Date: 5/5/2008

File Name: S0214000679

# Bridge Inspection Field Sketch



|                     |          |                      |                                       |
|---------------------|----------|----------------------|---------------------------------------|
| Between Rails       | 33.987ft | Clear Roadway        | <del>23.987ft</del> 24ft. ELS 9.29.15 |
| Left Sidewalk Width |          | Right Sidewalk Width |                                       |
| Median Width        |          | Median Height        |                                       |
| Left Curb Height    | 1ft      | Right Curb Height    | 1ft                                   |
| Left Clear Roadway  | 17ft     | Right Clear Roadway  | 17ft                                  |

MEASUREMENTS VERIFIED BY RLK 6/21/11

MEASUREMENTS VERIFIED BY RLK 6/24/13

MEASUREMENTS VERIFIED BY RLK 6/23/15

**Title**  
CULVERT TOP SIDE

**Description**  
TYPICAL SECTION

**Bridge No:** 230060

**Drawn By:** ERB

**Date:** 5/5/2008

**File Name:** S0214000680