

# Bridge Approach Speed Investigation

Bridge # 970093 over Town Creek on SR 1416 (Bottoms Dairy Rd)  
Wilson County  
WBS Element # 17BP.4.R.48



Document Prepared By:

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May 2, 2012

**Principal Investigator**

*Elizabeth A. Harris*  
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Elizabeth A. Harris, PhD, EI  
Principal Investigator

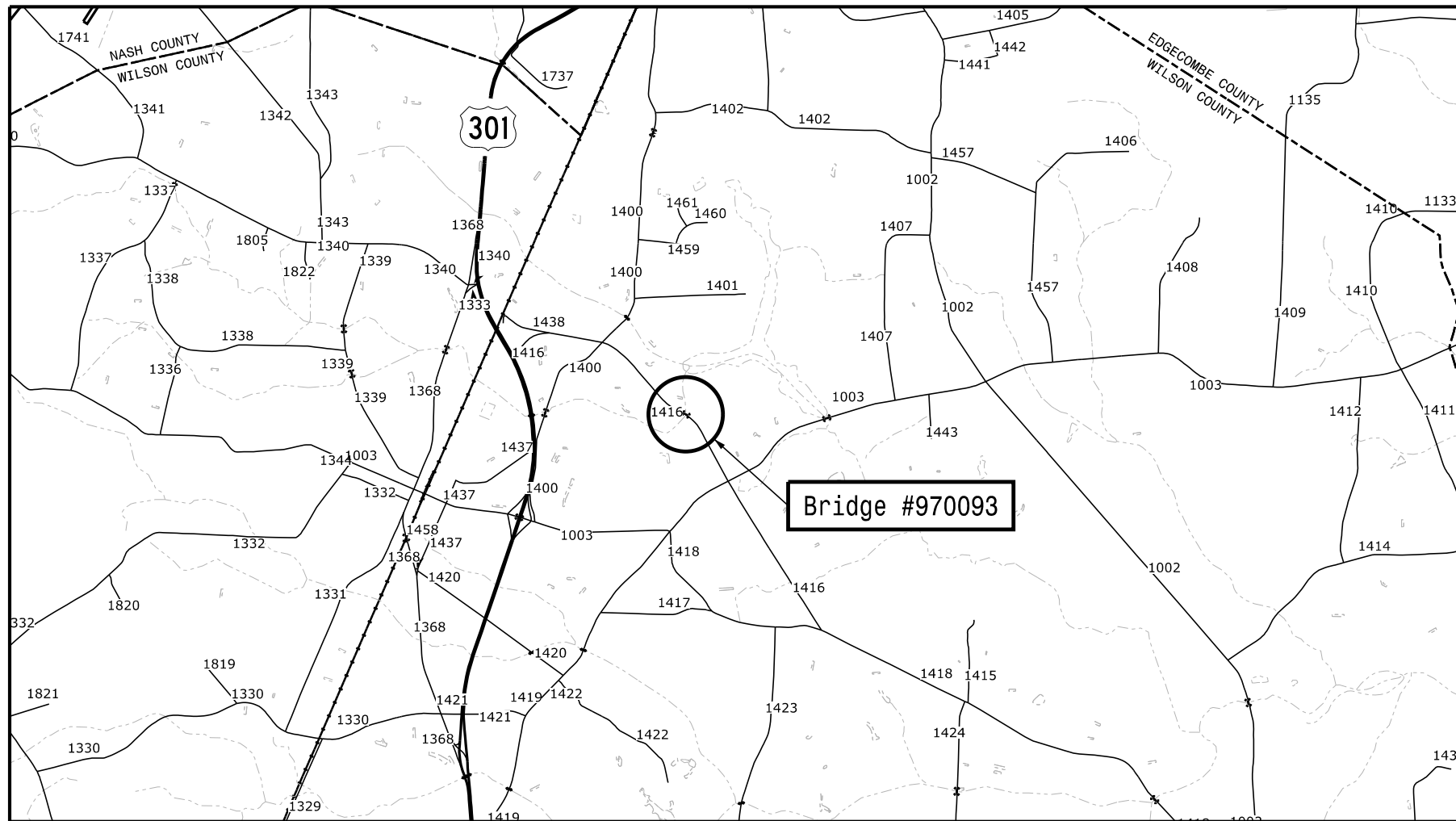
**Project Manager**

*Bradley Reynolds*  
\_\_\_\_\_  
Bradley A. Reynolds, PE  
Project Manager



# Division 4 - Wilson County Design Build Year 2 Bridge Program

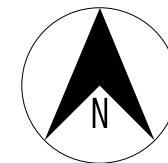
Bridge locations plotted based on coordinates provided by Bridge Management



| Division | County | Structure Number | Structure Description                 | Latitude    | Longitude   |
|----------|--------|------------------|---------------------------------------|-------------|-------------|
| 4        | Wilson | 970093           | Bridge #93 over Town Creek on SR 1416 | 35.81276182 | -77.8336511 |



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1"=5000'  
SCALE

# Bridge and Approach Investigation Checklist

Project 17BP.4.R.48

Description Bridge #93 over Town Creek on SR 1416

Route SR 1416 (Bottoms Dairy Rd)

Division 4

County Wilson

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Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 55 mph

Speed Data Only five speed data points collected due to sparseness of traffic.  
52, 52, 45, 54, 52 mph. Mean Speed = 51 mph

Ball Bank Speed Study EB: 10 at 60 mph, 9 at 55 mph, 7 at 50 mph  
WB: 14 at 60 mph, 11 at 55 mph, 9 at 50 mph

Warning Signs at Bridge Object Markers (OM-3L & OM-3R) - one located at each bridge corner  
Weight Limit Signs (Single Vehicle 17 tons, TTST 23 tons) - 1x each Appr.  
Reverse Curve Sign (W1-4L) - 1x each Appr.

Roadside Development Rural/Wooded/Agricultural  
Wilson Co. Solid Waste and Recycling facility west of bridge on SR 1416

ADT History 320 vpd from 2010 AADT map  
610 vpd from Crash Analysis Request (attached)

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 8.5'

Approach Shoulder Width: Varies from 8 to 10'  
Shoulder Type Grass

Lane Width (existing bridge) 9'

Shoulder width (existing bridge) 2' / 2.5'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section Local Secondary

Crash History and Safety Considerations Three crashes have been reported in the vicinity of the bridge from  
2/1/2002 to 1/31/2012 (10 years). One of the crashes involved the  
bridge structure itself (driver ran off road & hit bridge rail end).  
Near the bridge one driver hit a tree.

Comments Observed farm machinery (tractor) crossing bridge.

**Reasonable Bridge Speed** 55 mph



**County:** Wilson

**Description:** Bridge #93 over Town Creek

**Route:** SR 1416

SR 1416 (Bottoms Dairy Rd) Eastbound  $\pm 250'$  from Bridge #93

SR 1416 (Bottoms Dairy Rd) Eastbound  $\pm 50'$  from Bridge #93



SR 1416 (Bottoms Dairy Rd) Westbound  $\pm 250'$  from Bridge #93



SR 1416 (Bottoms Dairy Rd) Westbound  $\pm 50'$  from Bridge #93





**County:** Wilson

**Description:** Bridge #93 over Town Creek

**Route:**SR 1416

Eastbound view of Bridge #93 structure



Westbound view of Bridge #93 structure



# **Bridge Approach Speed Crash Analysis Request**

Order # 41000018746

**500 feet on Both Sides of Bridge Number 93 on Secondary Route 1416 (Bottoms Dairy Road) over Town Creek in Wilson County**

Document Prepared By:

Safety Planning Group  
Traffic Safety Systems Management Unit  
Transportation Mobility and Safety Division  
North Carolina Department of Transportation

**Note:** The crash statistics have been generated and are available through North Carolina's Crash Database. This database provides an inventory of **reported** crashes on record that have occurred at this location. Please note that many traffic crashes go unreported for a variety of reasons, and this report simply provides a listing of all crashes on record that occurred within 0 feet of the section described above.

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Strip Analysis Report**

**Study Criteria Summary**

**County:** WILSON      **City:** All and Rural  
**Date:** 02/01/2002    **to** 01/31/2012      **Study:** 41000018746  
**Location:** 500 feet on Both Sides of Bridge Number 93 on Secondary Route 1416 (Bottoms Dairy Road) over Town Creek

**Report Details**

| Acc No      | Crash ID     | Milepost            | Date                | Accident Type                       | Total Damage | Injuries                  |   |   |   | Condition |   |   | Road             |    | Trfc Ctl  |    |
|-------------|--------------|---------------------|---------------------|-------------------------------------|--------------|---------------------------|---|---|---|-----------|---|---|------------------|----|-----------|----|
|             |              |                     |                     |                                     |              | F                         | A | B | C | R         | L | W | Ch               | Ci | Dv        | Op |
| 1           | 102850631    | 1.578               | 04/26/2010<br>07:58 | RAN OFF ROAD -<br>RIGHT             | \$ 15250     | 0                         | 0 | 1 | 0 | 1         | 1 | 1 | 8                | 0  | 13        | 1  |
| <b>Unit</b> | <b>1 : 1</b> | <b>Alchl/Drugs:</b> | <b>0</b>            | <b>Speed:</b> 55 MPH <b>Dir:</b> NW |              | <b>Veh Mnvr/Ped Actn:</b> |   |   |   | <b>4</b>  |   |   | <b>Obj Strk:</b> |    | <b>49</b> |    |
| 2           | 103291131    | 1.578               | 11/02/2011<br>06:40 | OTHER NON-COLLISION                 | \$ 200       | 0                         | 0 | 0 | 0 | 1         | 3 | 1 | 1                | 0  | 0         |    |
| <b>Unit</b> | <b>1 : 2</b> | <b>Alchl/Drugs:</b> | <b>0</b>            | <b>Speed:</b> 55 MPH <b>Dir:</b> N  |              | <b>Veh Mnvr/Ped Actn:</b> |   |   |   | <b>4</b>  |   |   | <b>Obj Strk:</b> |    |           |    |
| 3           | 101220526    | 1.642               | 06/25/2004<br>21:43 | FIXED OBJECT                        | \$ 10000     | 0                         | 0 | 0 | 1 | 2         | 5 | 3 | 1                | 0  | 13        | 1  |
| <b>Unit</b> | <b>1 : 1</b> | <b>Alchl/Drugs:</b> | <b>0</b>            | <b>Speed:</b> 55 MPH <b>Dir:</b> E  |              | <b>Veh Mnvr/Ped Actn:</b> |   |   |   | <b>4</b>  |   |   | <b>Obj Strk:</b> |    | <b>33</b> |    |

**Legend for  
Report Details:**

Acc No - Accident Number  
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C  
Condition: R - Road Surface, L - Ambient Light, W - Weather  
Rd Ch - Road Character  
Rd Ci - Roadway Contributing Circumstances  
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating  
Alchl/Drugs - Alcohol Drugs Suspected  
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action  
Obj Strk - Object Struck

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**Summary Statistics**

**High Level Crash Summary**

| <b>Crash Type</b>                 | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|-----------------------------------|------------------------------|-----------------------------|
| Total Crashes                     | 3                            | 100.00                      |
| Fatal Crashes                     | 0                            | 0.00                        |
| Non-Fatal Injury Crashes          | 2                            | 66.67                       |
| Total Injury Crashes              | 2                            | 66.67                       |
| Property Damage Only Crashes      | 1                            | 33.33                       |
| Night Crashes                     | 1                            | 33.33                       |
| Wet Crashes                       | 1                            | 33.33                       |
| Alcohol/Drugs Involvement Crashes | 0                            | 0.00                        |

**Crash Severity Summary**

| <b>Crash Type</b>            | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|------------------------------|------------------------------|-----------------------------|
| Total Crashes                | 3                            | 100.00                      |
| Fatal Crashes                | 0                            | 0.00                        |
| Class A Crashes              | 0                            | 0.00                        |
| Class B Crashes              | 1                            | 33.33                       |
| Class C Crashes              | 1                            | 33.33                       |
| Property Damage Only Crashes | 1                            | 33.33                       |

**Vehicle Exposure Statistics**

Annual ADT = 610

Total Length = 0.202 (Miles)                      0.325 (Kilometers)

Total Vehicle Exposure = 0.45 (MVMT)                      0.72 (MVKMT)

| <b>Crash Rate</b>    | <b>Crashes Per 100 Million<br/>Vehicle Miles</b> | <b>Crashes Per 100 Million<br/>Vehicle Kilometers</b> |
|----------------------|--------------------------------------------------|-------------------------------------------------------|
| Total Crash Rate     | 666.67                                           | 414.25                                                |
| Fatal Crash Rate     | 0.00                                             | 0.00                                                  |
| Non Fatal Crash Rate | 444.44                                           | 276.17                                                |
| Night Crash Rate     | 222.22                                           | 138.08                                                |
| Wet Crash Rate       | 222.22                                           | 138.08                                                |
| EPDO Rate            | 3955.56                                          | 2457.87                                               |



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**Miscellaneous Statistics**

|                                      |          |
|--------------------------------------|----------|
| Severity Index =                     | 5.93     |
| EPDO Crash Index =                   | 17.80    |
| Estimated Property Damage Total = \$ | 25450.00 |

**Accident Type Summary**

| <b>Accident Type</b> | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|----------------------|------------------------------|-----------------------------|
| FIXED OBJECT         | 1                            | 33.33                       |
| OTHER NON-COLLISION  | 1                            | 33.33                       |
| RAN OFF ROAD - RIGHT | 1                            | 33.33                       |

**Injury Summary**

| <b>Injury Type</b>       | <b>Number of<br/>Injuries</b> | <b>Percent<br/>of Total</b> |
|--------------------------|-------------------------------|-----------------------------|
| Fatal Injuries           | 0                             | 0.00                        |
| Class A Injuries         | 0                             | 0.00                        |
| Class B Injuries         | 1                             | 50.00                       |
| Class C Injuries         | 1                             | 50.00                       |
| Total Non-Fatal Injuries | 2                             | 100.00                      |
| Total Injuries           | 2                             | 100.00                      |

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**Monthly Summary**

| <b>Month</b> | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|--------------|------------------------------|-----------------------------|
| Jan          | 0                            | 0.00                        |
| Feb          | 0                            | 0.00                        |
| Mar          | 0                            | 0.00                        |
| Apr          | 1                            | 33.33                       |
| May          | 0                            | 0.00                        |
| Jun          | 1                            | 33.33                       |
| Jul          | 0                            | 0.00                        |
| Aug          | 0                            | 0.00                        |
| Sep          | 0                            | 0.00                        |
| Oct          | 0                            | 0.00                        |
| Nov          | 1                            | 33.33                       |
| Dec          | 0                            | 0.00                        |

**Daily Summary**

| <b>Day</b> | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|------------|------------------------------|-----------------------------|
| Mon        | 1                            | 33.33                       |
| Tue        | 0                            | 0.00                        |
| Wed        | 1                            | 33.33                       |
| Thu        | 0                            | 0.00                        |
| Fri        | 1                            | 33.33                       |
| Sat        | 0                            | 0.00                        |
| Sun        | 0                            | 0.00                        |

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**Hourly Summary**

| <b>Hour</b> | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|-------------|------------------------------|-----------------------------|
| 0000-0059   | 0                            | 0.00                        |
| 0100-0159   | 0                            | 0.00                        |
| 0200-0259   | 0                            | 0.00                        |
| 0300-0359   | 0                            | 0.00                        |
| 0400-0459   | 0                            | 0.00                        |
| 0500-0559   | 0                            | 0.00                        |
| 0600-0659   | 1                            | 33.33                       |
| 0700-0759   | 1                            | 33.33                       |
| 0800-0859   | 0                            | 0.00                        |
| 0900-0959   | 0                            | 0.00                        |
| 1000-1059   | 0                            | 0.00                        |
| 1100-1159   | 0                            | 0.00                        |
| 1200-1259   | 0                            | 0.00                        |
| 1300-1359   | 0                            | 0.00                        |
| 1400-1459   | 0                            | 0.00                        |
| 1500-1559   | 0                            | 0.00                        |
| 1600-1659   | 0                            | 0.00                        |
| 1700-1759   | 0                            | 0.00                        |
| 1800-1859   | 0                            | 0.00                        |
| 1900-1959   | 0                            | 0.00                        |
| 2000-2059   | 0                            | 0.00                        |
| 2100-2159   | 1                            | 33.33                       |
| 2200-2259   | 0                            | 0.00                        |
| 2300-2359   | 0                            | 0.00                        |

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**Light and Road Conditions Summary**

| Condition | Dry | Wet | Other | Total |
|-----------|-----|-----|-------|-------|
| Day       | 1   | 0   | 0     | 1     |
| Dark      | 0   | 1   | 0     | 1     |
| Other     | 1   | 0   | 0     | 1     |
| Total     | 2   | 1   | 0     | 3     |

**Object Struck Summary**

| Object Type     | Times Struck | Percent of Total |
|-----------------|--------------|------------------|
| BRIDGE RAIL END | 1            | 50.00            |
| TREE            | 1            | 50.00            |

**Vehicle Type Summary**

| Vehicle Type  | Number Involved | Percent of Total |
|---------------|-----------------|------------------|
| PASSENGER CAR | 2               | 66.67            |
| PICKUP        | 1               | 33.33            |



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**Yearly Totals Summary**

**Accident Totals**

| <b>Year</b> | <b>Total<br/>Accidents</b> | <b>Fatal<br/>Accidents</b> | <b>Injury<br/>Accidents</b> | <b>Property Damage<br/>Only Accidents</b> |
|-------------|----------------------------|----------------------------|-----------------------------|-------------------------------------------|
| 2002        | 0                          | 0                          | 0                           | 0                                         |
| 2003        | 0                          | 0                          | 0                           | 0                                         |
| 2004        | 1                          | 0                          | 1                           | 0                                         |
| 2005        | 0                          | 0                          | 0                           | 0                                         |
| 2006        | 0                          | 0                          | 0                           | 0                                         |
| 2007        | 0                          | 0                          | 0                           | 0                                         |
| 2008        | 0                          | 0                          | 0                           | 0                                         |
| 2009        | 0                          | 0                          | 0                           | 0                                         |
| 2010        | 1                          | 0                          | 1                           | 0                                         |
| 2011        | 1                          | 0                          | 0                           | 1                                         |
| 2012        | 0                          | 0                          | 0                           | 0                                         |
| Total       | 3                          | 0                          | 2                           | 1                                         |

**Injury Totals**

| <b>Year</b> | <b>Fatal Injuries</b> | <b>Class A, B,<br/>or C Injuries</b> |
|-------------|-----------------------|--------------------------------------|
| 2002        | 0                     | 0                                    |
| 2003        | 0                     | 0                                    |
| 2004        | 0                     | 1                                    |
| 2005        | 0                     | 0                                    |
| 2006        | 0                     | 0                                    |
| 2007        | 0                     | 0                                    |
| 2008        | 0                     | 0                                    |
| 2009        | 0                     | 0                                    |
| 2010        | 0                     | 1                                    |
| 2011        | 0                     | 0                                    |
| 2012        | 0                     | 0                                    |
| Total       | 0                     | 2                                    |

**Miscellaneous Totals**

| <b>Year</b> | <b>Property Damage</b> | <b>EPDO Index</b> |
|-------------|------------------------|-------------------|
| 2002        | \$ 0                   | 0.00              |
| 2003        | \$ 0                   | 0.00              |
| 2004        | \$ 10000               | 8.40              |

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| <b>Year</b>  | <b>Property Damage</b> | <b>EPDO Index</b> |
|--------------|------------------------|-------------------|
| 2005         | \$ 0                   | 0.00              |
| 2006         | \$ 0                   | 0.00              |
| 2007         | \$ 0                   | 0.00              |
| 2008         | \$ 0                   | 0.00              |
| 2009         | \$ 0                   | 0.00              |
| 2010         | \$ 15250               | 8.40              |
| 2011         | \$ 200                 | 1.00              |
| 2012         | \$ 0                   | 0.00              |
| <b>Total</b> | <b>\$ 25450</b>        | <b>17.80</b>      |

**Type of Accident Totals**

| <b>Year</b>  | <b>Left Turn</b> | <b>Right Turn</b> | <b>Rear End</b> | <b>Run Off Road &amp;<br/>Fixed Object</b> | <b>Angle</b> | <b>Side Swipe</b> | <b>Other</b> |
|--------------|------------------|-------------------|-----------------|--------------------------------------------|--------------|-------------------|--------------|
| 2002         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2003         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2004         | 0                | 0                 | 0               | 1                                          | 0            | 0                 | 0            |
| 2005         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2006         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2007         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2008         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2009         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2010         | 0                | 0                 | 0               | 1                                          | 0            | 0                 | 0            |
| 2011         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 1            |
| 2012         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| <b>Total</b> | <b>0</b>         | <b>0</b>          | <b>0</b>        | <b>2</b>                                   | <b>0</b>     | <b>0</b>          | <b>1</b>     |

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Traffic Engineering Accident Analysis System  
Strip Analysis Report

Strip Diagram

| Features               | Milepost | Crash IDs             |
|------------------------|----------|-----------------------|
|                        | 1.480    |                       |
|                        | 1.490    |                       |
|                        | 1.500    |                       |
|                        | 1.510    |                       |
|                        | 1.520    |                       |
|                        | 1.530    |                       |
|                        | 1.540    |                       |
|                        | 1.550    |                       |
|                        | 1.560    |                       |
| BEGIN BRIDGE STRUCTURE | 1.570    |                       |
| Structure:970093       | 1.580    | 102850631   103291131 |
| END BRIDGE STRUCTURE   | 1.590    |                       |
|                        | 1.600    |                       |
|                        | 1.610    |                       |
|                        | 1.620    |                       |
|                        | 1.630    |                       |
|                        | 1.640    | 101220526             |
|                        | 1.650    |                       |
|                        | 1.660    |                       |
|                        | 1.670    |                       |
|                        | 1.680    |                       |

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Strip Analysis Report**

**Study Criteria**

| Study Name  | Log No.     | PH No. | TIP No. | K/A Cf. | B/C Cf. | ADT | ADT Route |
|-------------|-------------|--------|---------|---------|---------|-----|-----------|
| 41000018746 | 41000018746 |        |         | 76.8    | 8.4     | 610 | 40001416  |

| Request Date | Courier Service | Phone No.     | Ext. | Fax No. |
|--------------|-----------------|---------------|------|---------|
| 03/29/2012   |                 | (252)237-6164 |      |         |

| County |      |      | Municipality  |      |            |            |            |       |
|--------|------|------|---------------|------|------------|------------|------------|-------|
| Name   | Code | Div. | Name          | Code | Y-Line Ft. | Begin Date | End Date   | Years |
| WILSON | 97   | 4    | All and Rural |      | 0          | 02/01/2002 | 01/31/2012 | 10.00 |

| Location Text                                                                                           | Requestor                                                         |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 500 feet on Both Sides of Bridge Number 93 on Secondary Route 1416 (Bottoms Dairy Road) over Town Creek | Mr. Haywood Daughtry III, PE<br>Eastern & OBX Region<br>Wilson NC |

| Included Accidents | Old MP | New MP | Type |
|--------------------|--------|--------|------|
| 102850631          |        | 1.578  | I    |
| 103291131          | 1.17   | 1.578  | I    |

**Fiche Roads**

| Name          | Code     |
|---------------|----------|
| SR 1416       | 40001416 |
| BOTTOMS DAIRY | 50003297 |

**Strip Road**

| Name    | Code     | Begin MP | End MP | Miles | Kilometers |
|---------|----------|----------|--------|-------|------------|
| SR 1416 | 40001416 | 1.477    | 1.679  | 0.202 | 0.325      |

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Traffic Engineering Accident Analysis System  
Fiche, Intersection, and Strip Reports Code Index**

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**T - Type of Accident Codes**

0 = UNKNOWN  
1 = RAN OFF ROAD - RIGHT  
2 = RAN OFF ROAD - LEFT  
3 = RAN OFF ROAD - STRAIGHT  
4 = JACKKNIFE  
5 = OVERTURN/ROLLOVER  
13 = OTHER NON-COLLISION  
14 = PEDESTRIAN  
15 = PEDALCYCLIST  
16 = RR TRAIN, ENGINE  
17 = ANIMAL  
18 = MOVABLE OBJECT  
19 = FIXED OBJECT  
20 = PARKED MOTOR VEHICLE  
21 = REAR END, SLOW OR STOP  
22 = REAR END, TURN  
23 = LEFT TURN, SAME ROADWAY  
24 = LEFT TURN, DIFFERENT ROADWAYS  
25 = RIGHT TURN, SAME ROADWAY  
26 = RIGHT TURN, DIFFERENT ROADWAYS  
27 = HEAD ON  
28 = SIDESWIPE, SAME DIRECTION  
29 = SIDESWIPE, OPPOSITE DIRECTION  
30 = ANGLE  
31 = BACKING UP  
32 = OTHER COLLISION WITH VEHICLE

**F - Road Feature Codes**

0 = NO SPECIAL FEATURE  
1 = BRIDGE  
2 = BRIDGE APPROACH  
3 = UNDERPASS  
4 = DRIVEWAY, PUBLIC  
5 = DRIVEWAY, PRIVATE  
6 = ALLEY INTERSECTION  
7 = FOUR-WAY INTERSECTION  
8 = T-INTERSECTION  
9 = Y-INTERSECTION  
10 = TRAFFIC CIRCLE/ROUNDBOUT  
11 = FIVE-POINT, OR MORE  
12 = RELATED TO INTERSECTION  
13 = NON-INTERSECTION MEDIAN CROSSING  
14 = END OR BEGINNING - DIVIDED HIGHWAY  
15 = OFF RAMP ENTRY  
16 = OFF RAMP PROPER  
17 = OFF RAMP TERMINAL ON CROSSROAD  
18 = MERGE LANE BETWEEN ON AND OFF RAMP  
19 = ON RAMP ENTRY  
20 = ON RAMP PROPER  
21 = ON RAMP TERMINAL ON CROSSROAD  
22 = RAILROAD CROSSING  
23 = TUNNEL  
24 = SHARED-USE PATHS OR TRAILS  
25 = OTHER

**R - Road Condition Codes**

1 = DRY  
2 = WET  
3 = WATER (STANDING, MOVING)  
4 = ICE  
5 = SNOW  
6 = SLUSH  
7 = SAND, MUD, DIRT, GRAVEL  
8 = FUEL, OIL  
9 = OTHER  
10 = UNKNOWN

**L - Light Condition Codes**

1 = DAYLIGHT  
2 = DUSK  
3 = DAWN  
4 = DARK - LIGHTED ROADWAY  
5 = DARK - ROADWAY NOT LIGHTED  
6 = DARK - UNKNOWN LIGHTING  
7 = OTHER  
8 = UNKNOWN

**W - Weather Condition Codes**

1 = CLEAR  
2 = CLOUDY  
3 = RAIN  
4 = SNOW  
5 = FOG, SMOG, SMOKE  
6 = SLEET, HAIL, FREEZING RAIN/DRIZZLE  
7 = SEVERE CROSSWINDS  
8 = BLOWING SAND, DIRT, SNOW  
9 = OTHER

**S - Accident Severity Codes**

K = FATAL  
A = A-LEVEL INJURY  
B = B-LEVEL INJURY  
C = C-LEVEL INJURY  
O = PROPERTY DAMAGE ONLY

**Ch - Road Character**

1 = STRAIGHT, LEVEL  
2 = STRAIGHT, HILLCREST  
3 = STRAIGHT, GRADE  
4 = STRAIGHT, BOTTOM (SAG)  
5 = CURVE, LEVEL  
6 = CURVE, HILLCREST  
7 = CURVE, GRADE  
8 = CURVE, BOTTOM (SAG)  
9 = OTHER

**Op - Traffic Control Operating**

1 = YES  
2 = NO  
3 = UNKNOWN

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Traffic Engineering Accident Analysis System  
Fiche, Intersection, and Strip Reports Code Index**

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**Veh Mnvr - Vehicle Maneuver Codes**

1 = STOPPED IN TRAVEL LANE  
2 = PARKED OUT OF TRAVEL LANES  
3 = PARKED IN TRAVEL LANES  
4 = GOING STRAIGHT AHEAD  
5 = CHANGING LANES OR MERGING  
6 = PASSING  
7 = MAKING RIGHT TURN  
8 = MAKING LEFT TURN  
9 = MAKING U-TURN  
10 = BACKING  
11 = SLOWING OR STOPPING  
12 = STARTING IN ROADWAY  
13 = PARKING  
14 = LEAVING PARKED POSITION  
15 = AVOIDING OBJECT IN ROAD

**Dv - Traffic Control Device**

0 = NO CONTROL PRESENT  
1 = STOP SIGN  
2 = YIELD SIGN  
3 = STOP AND GO SIGNAL  
4 = FLASHING SIGNAL WITH STOP SIGN  
5 = FLASHING SIGNAL WITHOUT STOP SIGN  
6 = RR GATE AND FLASHER  
7 = RR FLASHER  
8 = RR CROSSBUCKS ONLY  
9 = HUMAN CONTROL  
10 = WARNING SIGN  
11 = SCHOOL ZONE SIGNS  
12 = FLASHING STOP AND GO SIGNAL  
13 = DOUBLE YELLOW LINE, NO PASSING ZONE  
14 = OTHER

**Alchl/Drugs - Driver Alcohol/Drugs Suspected Status Codes**

0 = NO  
1 = YES - ALCOHOL, IMPAIRMENT SUSPECTED  
2 = YES - ALCOHOL, NO IMPAIRMENT DETECTED  
3 = YES - OTHER DRUGS, IMPAIRMENT SUSPECTED  
4 = YES - OTHER DRUGS, NO IMPAIRMENT DETECTED  
5 = YES - ALCOHOL AND OTHER DRUGS, IMPAIRMENT SUSPECTED  
6 = YES - ALCOHOL AND OTHER DRUGS, NO IMPAIRMENT DETECTED  
7 = UNKNOWN

**Ped Actn - Pedestrian Action Codes**

1 = ENTERING OR CROSSING SPECIFIED LOCATION  
2 = WALKING, RIDING, RUNNING/JOGGING WITH TRAFFIC  
3 = WALKING, RIDING, RUNNING/JOGGING AGAINST TRAFFIC  
4 = WORKING  
5 = PUSHING VEHICLE  
6 = APPROACHING OR LEAVING VEHICLE  
7 = PLAYING  
8 = STANDING  
9 = OTHER

**Ci - Roadway Contributing Circumstances**

0 = NONE (NO UNUSUAL CONDITIONS)  
1 = ROAD SURFACE CONDITION  
2 = DEBRIS  
3 = RUT, HOLES, BUMPS  
4 = WORK ZONE (CONSTRUCTION, MAINTENANCE, UTILITY)  
5 = WORN TRAVEL-POLISHED SURFACE  
6 = OBSTRUCTION IN ROADWAY  
7 = TRAFFIC CONTROL DEVICE INOPERATIVE, NOT VISIBLE OR MISSING  
8 = SHOULDERS LOW, SOFT OR HIGH  
9 = NO SHOULDERS  
10 = NON-HIGHWAY WORK  
11 = OTHER  
12 = UNKNOWN



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**Obj Strk - Object Struck Codes**

14 = PEDESTRIAN  
15 = PEDALCYCLIST  
17 = ANIMAL  
18 = MOVABLE OBJECT  
20 = PARKED MOTOR VEHICLE  
33 = TREE  
34 = UTILITY POLE  
35 = LUMINAIRE POLE NON-BREAKAWAY  
36 = LUMINAIRE POLE BREAKAWAY  
37 = OFFICIAL HIGHWAY SIGN NON-BREAKAWAY  
38 = OFFICIAL HIGHWAY SIGN BREAKAWAY  
39 = OVERHEAD SIGN SUPPORT  
40 = COMMERCIAL SIGN  
41 = GUARDRAIL END ON SHOULDER  
42 = GUARDRAIL FACE ON SHOULDER  
43 = GUARDRAIL END IN MEDIAN  
44 = GUARDRAIL FACE IN MEDIAN  
45 = SHOULDER BARRIER END  
46 = SHOULDER BARRIER FACE  
47 = MEDIAN BARRIER END  
48 = MEDIAN BARRIER FACE  
49 = BRIDGE RAIL END  
50 = BRIDGE RAIL FACE  
51 = OVERHEAD PART UNDERPASS  
52 = PIER ON SHOULDER OF UNDERPASS  
53 = PIER IN MEDIAN OF UNDERPASS  
54 = ABUTMENT OF UNDERPASS  
55 = TRAFFIC ISLAND CURB OR MEDIAN  
56 = CATCH BASIN OR CULVERT ON SHOULDER  
57 = CATCH BASIN OR CULVERT ON MEDIAN  
58 = DITCH  
59 = EMBANKMENT  
60 = MAILBOX  
61 = FENCE OR FENCE POST  
62 = CONTRUCTION BARRIER  
63 = CRASH CUSHION  
64 = OTHER FIXED OBJECT

**Unit # - Vehicle Style Codes**

1 = PASSENGER CAR  
2 = PICKUP  
3 = LIGHT TRUCK (MINI-VAN, PANEL)  
4 = SPORT UTILITY  
5 = VAN  
6 = COMMERCIAL BUS  
7 = SCHOOL BUS  
8 = ACTIVITY BUS  
9 = OTHER BUS  
10 = SINGLE UNIT TRUCK (2-AXLE, 6-TIRE)  
11 = SINGLE UNIT TRUCK (3 OR MORE AXLES)  
12 = TRUCK/TRAILER  
13 = TRUCK/TRACTOR  
14 = TRACTOR/SEMI-TRAILER  
15 = TRACTOR/DOULBES  
16 = UNKNOWN HEAVY TRUCK  
17 = TAXICAB  
18 = FARM EQUIPMENT  
19 = FARM TRACTOR  
20 = MOTORCYCLE  
21 = MOPED  
22 = MOTOR SCOOTER OR MOTOR BIKE  
23 = PEDALCYCLE  
24 = PEDESTRIAN  
25 = MOTOR HOME/RECREATIONAL VEHICLE  
26 = OTHER  
27 = ALL TERRAIN VEHICLE (ATV)  
28 = FIRETRUCK  
29 = EMS VEHICLE, AMBULANCE, RESCUE SQUAD  
30 = MILITARY  
31 = POLICE  
32 = UNKNOWN