

# Bridge Approach Speed Investigation

Bridge # 400271 over Stinking Quarter Creek on SR 3343  
Guilford County  
WBS Element # 17BP.7.PE.1

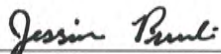


Document Prepared By:

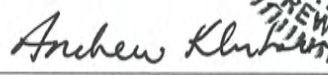
HNTB North Carolina, P.C.  
343 E. Six Forks Rd  
Raleigh NC, 27609  
NC License No: C-1554

August 27, 2013

**Principal Investigator**

  
\_\_\_\_\_  
Jessica Puszyński  
Principal Investigator

**Project Manager**

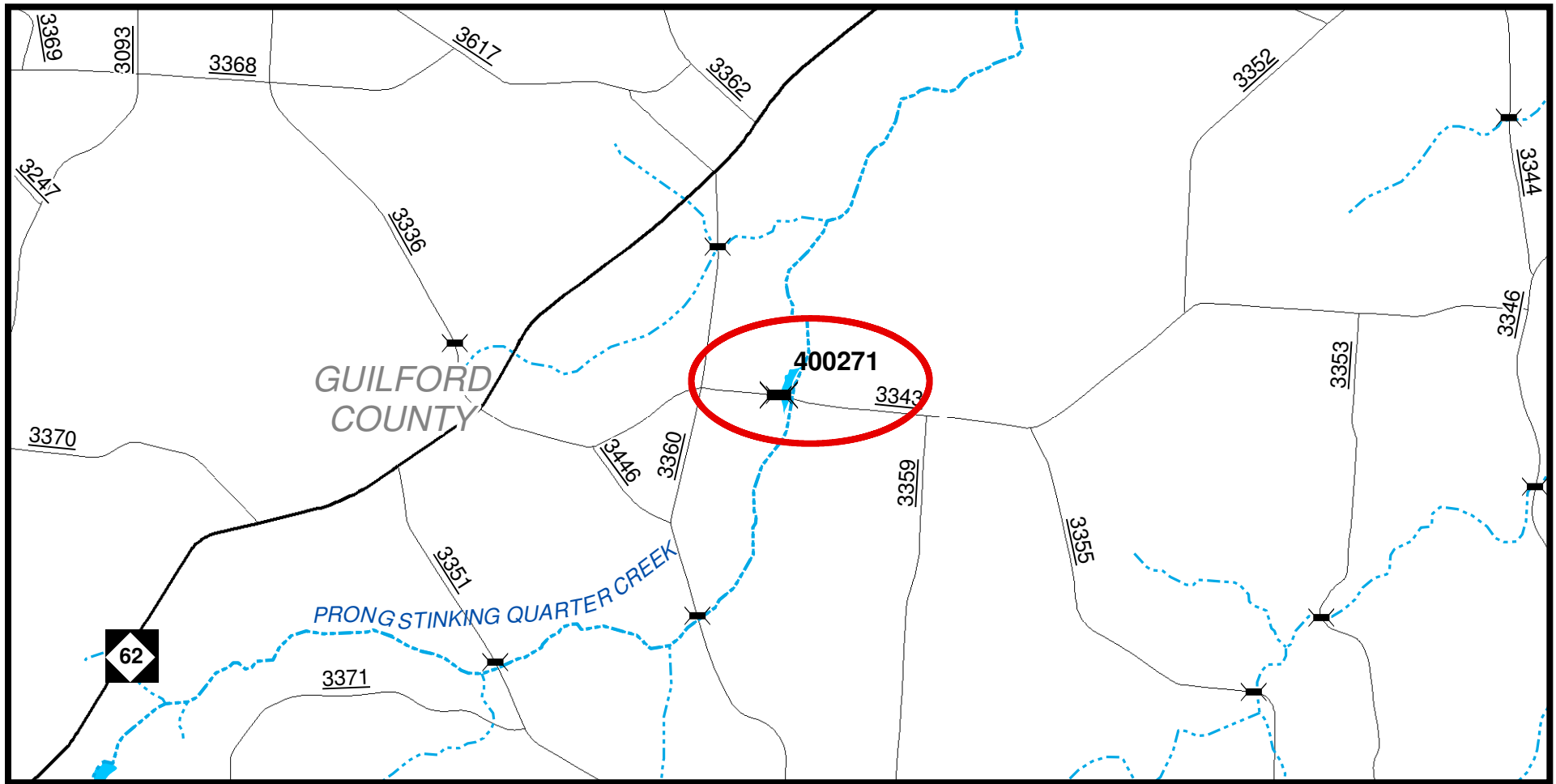
  
\_\_\_\_\_  
Andrew Klinksiek, PE  
Project Manager



# Division 7 - Guilford County

## Design Build Year 3/4 Bridge Program

Bridge Locations plotted based on coordinates provided by Bridge Management



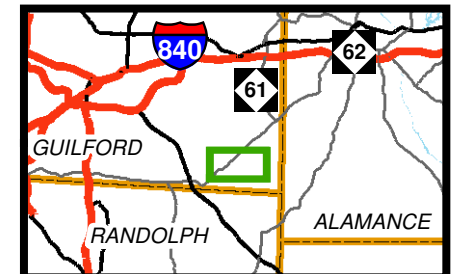
| Structure Number | Division | County   | Structure Description                              | Latitude  | Longitude |
|------------------|----------|----------|----------------------------------------------------|-----------|-----------|
| 400271           | 7        | GUILFORD | Bridge #0271 over STINKING QUARTER CREEK on SR3343 | 35.933699 | -79.60381 |



HNTB NORTH CAROLINA, P.C.  
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1 in = 2,500 ft  
SCALE



# Bridge and Approach Investigation Checklist

Project 17BP.7.PE.1

Description Bridge #271 over Stinking Quarter Creek on SR 3343

Route SR 3343 (Coble Church Rd)

Division 7

County Guilford

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Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 55-60 mph

Speed Data No speed data points collected due to sparseness traffic.

Ball Bank Speed Study Slight curve on west side of bridge ball banks 8 degrees at 55 mph and 12 degrees at 60 mph.

Warning Signs at Bridge Object markers (OM3-L and OM3-R), one located at each bridge corner. Regulatory 16 ton/24 ton weight limit sign on each approach.

Roadside Development Rural Residential/Agricultural

ADT History 390 vpd from 2011 NCDOT Traffic Survey Map  
400 vpd from Crash Analysis Request (attached)

Pedestrian/Bicycle Traffic No bike or ped traffic observed during investigation. Little bike or ped traffic is expected on SR 3343.

Bridge and Approach Digital Photos See attached photos.

Approach Lane Width 19' overall pavement width with 9.5' lanes.

Approach Shoulder Width: Varies from 6' to 7' ±  
Shoulder Type Grass

Lane Width (existing bridge) 25' overall pavement width with 9.5' lanes.

Shoulder width (existing bridge) 3'3'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 3343 is classified as a local roadway, therefore it is recommended that the minimum cross section follow the NCDOT "R-R-R Guide" with a minimum of 10 foot lane widths and 3 foot shoulder widths (6 foot graded shoulder width where guardrail is to be installed).

Crash History and Safety Considerations Two crashes have been reported in the vicinity of the bridge from 5/1/2003 to 4/30/2013 (10 years). Neither crash appeared to be related to the bridge or bridge approaches.

Comments Object Marker OM3-R located 100' east of bridge on EB departure at a drainage pipe opening.

**Reasonable Bridge Speed** 60 mph

Investigated by: Jessica Puszynski 6/25/13 Reviewed by: Andrew Klinksiek, PE

**County:** Guilford

**Description:** Bridge #271 over Stinking Quarter Creek

**Route:** SR 3343

SR 3343 (Coble Church Rd) Eastbound  $\pm 50'$  from Bridge #271



SR 3343 (Coble Church Rd) Eastbound  $\pm 150'$  from Bridge #271



SR 3343 (Coble Church Rd) Eastbound  $\pm 100'$  from Bridge #271



SR 3343 (Coble Church Rd) Eastbound  $\pm 200'$  from Bridge #271



**County:** Guilford

**Description:** Bridge #271 over Stinking Quarter Creek

**Route:** SR 3343

SR 3343 (Coble Church Rd) Eastbound  $\pm 250'$  from Bridge #271



SR 3343 (Coble Church Rd) Westbound  $\pm 50'$  from Bridge #271



SR 3343 (Coble Church Rd) Westbound  $\pm 100'$  from Bridge #271



SR 3343 (Coble Church Rd) Westbound  $\pm 150'$  from Bridge #271



**County:** Guilford

**Description:** Bridge #271 over Stinking Quarter Creek

**Route:** SR 3343

SR 3343 (Coble Church Rd) Westbound  $\pm 200'$  from Bridge #271

SR 3343 (Coble Church Rd) Westbound  $\pm 250'$  from Bridge #271



Westbound view of Bridge #271 structure looking south



Westbound view of Bridge #271 structure looking north



**North Carolina Department of Transportation  
Traffic Engineering Accident Analysis System  
Strip Analysis Report**

**Study Criteria Summary**

**County:** GUILFORD      **City:** All and Rural  
**Date:** 5/1/2003      **to** 4/30/2013      **Study:** GUILFORDBRIDGE400271  
**Location:** 500 feet on either side of bridge 400271 on SR 3343 (Coble Church Road)

**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                                                                                                         | 102479598 | 2.340    | 12/27/2008<br>17:30 | ANIMAL        | \$ 500       | 0        | 0 | 0 | 0 | 2         | 5 | 2 | 1    | 0  | 13       | 1  |
| Unit 1 : 1      Alchl/Drugs: 0      Speed: 35 MPH      Dir: E      Veh Mnvr/Ped Actn: 4      Obj Strk: 17 |           |          |                     |               |              |          |   |   |   |           |   |   |      |    |          |    |
| 2                                                                                                         | 102080693 | 2.440    | 07/03/2007<br>21:20 | ANIMAL        | \$ 1000      | 0        | 0 | 0 | 0 | 1         | 6 | 1 |      | 0  |          |    |
| Unit 1 : 1      Alchl/Drugs: 0      Speed: 0 MPH      Dir: W      Veh Mnvr/Ped Actn: 4      Obj Strk: 17  |           |          |                     |               |              |          |   |   |   |           |   |   |      |    |          |    |

**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**

| Crash Type                        | Number of Crashes | Percent of Total |
|-----------------------------------|-------------------|------------------|
| Total Crashes                     | 2                 | 100.00           |
| Fatal Crashes                     | 0                 | 0.00             |
| Non-Fatal Injury Crashes          | 0                 | 0.00             |
| Total Injury Crashes              | 0                 | 0.00             |
| Property Damage Only Crashes      | 2                 | 100.00           |
| Night Crashes                     | 2                 | 100.00           |
| Wet Crashes                       | 1                 | 50.00            |
| Alcohol/Drugs Involvement Crashes | 0                 | 0.00             |

**Crash Severity Summary**

| Crash Type                   | Number of Crashes | Percent of Total |
|------------------------------|-------------------|------------------|
| Total Crashes                | 2                 | 100.00           |
| Fatal Crashes                | 0                 | 0.00             |
| Class A Crashes              | 0                 | 0.00             |
| Class B Crashes              | 0                 | 0.00             |
| Class C Crashes              | 0                 | 0.00             |
| Property Damage Only Crashes | 2                 | 100.00           |

**Vehicle Exposure Statistics**

Annual ADT = 400

Total Length = 0.2 (Miles)

0.322 (Kilometers)

Total Vehicle Exposure = 0.29 (MVMT)

0.47 (MVKMT)

| Crash Rate           | Crashes Per 100 Million Vehicle Miles | Crashes Per 100 Million Vehicle Kilometers |
|----------------------|---------------------------------------|--------------------------------------------|
| Total Crash Rate     | 684.37                                | 425.25                                     |
| Fatal Crash Rate     | 0.00                                  | 0.00                                       |
| Non Fatal Crash Rate | 0.00                                  | 0.00                                       |
| Night Crash Rate     | 684.37                                | 425.25                                     |
| Wet Crash Rate       | 342.18                                | 212.62                                     |
| EPDO Rate            | 684.37                                | 425.25                                     |

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**Miscellaneous Statistics**

|                                      |         |
|--------------------------------------|---------|
| Severity Index =                     | 1.00    |
| EPDO Crash Index =                   | 2.00    |
| Estimated Property Damage Total = \$ | 1500.00 |

**Accident Type Summary**

| <b>Accident Type</b> | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|----------------------|------------------------------|-----------------------------|
| ANIMAL               | 2                            | 100.00                      |

**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         | 0                             | 0.00                        |
| Class C Injuries         | 0                             | 0.00                        |
| Total Non-Fatal Injuries | 0                             | 0.00                        |
| Total Injuries           | 0                             | 0.00                        |

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Traffic Engineering Accident Analysis System  
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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          | 0                            | 0.00                        |
| May          | 0                            | 0.00                        |
| Jun          | 0                            | 0.00                        |
| Jul          | 1                            | 50.00                       |
| Aug          | 0                            | 0.00                        |
| Sep          | 0                            | 0.00                        |
| Oct          | 0                            | 0.00                        |
| Nov          | 0                            | 0.00                        |
| Dec          | 1                            | 50.00                       |

**Daily Summary**

| <b>Day</b> | <b>Number of<br/>Crashes</b> | <b>Percent<br/>of Total</b> |
|------------|------------------------------|-----------------------------|
| Mon        | 0                            | 0.00                        |
| Tue        | 1                            | 50.00                       |
| Wed        | 0                            | 0.00                        |
| Thu        | 0                            | 0.00                        |
| Fri        | 0                            | 0.00                        |
| Sat        | 1                            | 50.00                       |
| Sun        | 0                            | 0.00                        |

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Hourly Summary

| Hour      | Number of<br>Crashes | Percent<br>of Total |
|-----------|----------------------|---------------------|
| 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 | 0                    | 0.00                |
| 0700-0759 | 0                    | 0.00                |
| 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 | 1                    | 50.00               |
| 1800-1859 | 0                    | 0.00                |
| 1900-1959 | 0                    | 0.00                |
| 2000-2059 | 0                    | 0.00                |
| 2100-2159 | 1                    | 50.00               |
| 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       | 0   | 0   | 0     | 0     |
| Dark      | 1   | 1   | 0     | 2     |
| Other     | 0   | 0   | 0     | 0     |
| Total     | 1   | 1   | 0     | 2     |

**Object Struck Summary**

| Object Type | Times Struck | Percent of Total |
|-------------|--------------|------------------|
| ANIMAL      | 2            | 100.00           |

**Vehicle Type Summary**

| Vehicle Type  | Number Involved | Percent of Total |
|---------------|-----------------|------------------|
| PASSENGER CAR | 2               | 100.00           |

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Yearly Totals Summary

Accident Totals

| Year  | Total<br>Accidents | Fatal<br>Accidents | Injury<br>Accidents | Property Damage<br>Only Accidents |
|-------|--------------------|--------------------|---------------------|-----------------------------------|
| 2003  | 0                  | 0                  | 0                   | 0                                 |
| 2004  | 0                  | 0                  | 0                   | 0                                 |
| 2005  | 0                  | 0                  | 0                   | 0                                 |
| 2006  | 0                  | 0                  | 0                   | 0                                 |
| 2007  | 1                  | 0                  | 0                   | 1                                 |
| 2008  | 1                  | 0                  | 0                   | 1                                 |
| 2009  | 0                  | 0                  | 0                   | 0                                 |
| 2010  | 0                  | 0                  | 0                   | 0                                 |
| 2011  | 0                  | 0                  | 0                   | 0                                 |
| 2012  | 0                  | 0                  | 0                   | 0                                 |
| 2013  | 0                  | 0                  | 0                   | 0                                 |
| Total | 2                  | 0                  | 0                   | 2                                 |

Injury Totals

| Year  | Fatal Injuries | Class A, B,<br>or C Injuries |
|-------|----------------|------------------------------|
| 2003  | 0              | 0                            |
| 2004  | 0              | 0                            |
| 2005  | 0              | 0                            |
| 2006  | 0              | 0                            |
| 2007  | 0              | 0                            |
| 2008  | 0              | 0                            |
| 2009  | 0              | 0                            |
| 2010  | 0              | 0                            |
| 2011  | 0              | 0                            |
| 2012  | 0              | 0                            |
| 2013  | 0              | 0                            |
| Total | 0              | 0                            |

Miscellaneous Totals

| Year | Property Damage | EPDO Index |
|------|-----------------|------------|
| 2003 | \$ 0            | 0.00       |
| 2004 | \$ 0            | 0.00       |

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| <b>Year</b>  | <b>Property Damage</b> | <b>EPDO Index</b> |
|--------------|------------------------|-------------------|
| 2005         | \$ 0                   | 0.00              |
| 2006         | \$ 0                   | 0.00              |
| 2007         | \$ 1000                | 1.00              |
| 2008         | \$ 500                 | 1.00              |
| 2009         | \$ 0                   | 0.00              |
| 2010         | \$ 0                   | 0.00              |
| 2011         | \$ 0                   | 0.00              |
| 2012         | \$ 0                   | 0.00              |
| 2013         | \$ 0                   | 0.00              |
| <b>Total</b> | <b>\$ 1500</b>         | <b>2.00</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> |
|--------------|------------------|-------------------|-----------------|--------------------------------------------|--------------|-------------------|--------------|
| 2003         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2004         | 0                | 0                 | 0               | 0                                          | 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                 | 1            |
| 2008         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 1            |
| 2009         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2010         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2011         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2012         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| 2013         | 0                | 0                 | 0               | 0                                          | 0            | 0                 | 0            |
| <b>Total</b> | <b>0</b>         | <b>0</b>          | <b>0</b>        | <b>0</b>                                   | <b>0</b>     | <b>0</b>          | <b>2</b>     |

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Traffic Engineering Accident Analysis System  
Strip Analysis Report

Strip Diagram

| Features         | Milepost | Crash IDs |
|------------------|----------|-----------|
| Structure:400271 | 2.24     |           |
|                  | 2.25     |           |
|                  | 2.26     |           |
|                  | 2.27     |           |
|                  | 2.28     |           |
|                  | 2.29     |           |
|                  | 2.30     |           |
|                  | 2.31     |           |
|                  | 2.32     |           |
|                  | 2.33     |           |
|                  | 2.34     | 102479598 |
|                  | 2.35     |           |
|                  | 2.36     |           |
|                  | 2.37     |           |
|                  | 2.38     |           |
|                  | 2.39     |           |
|                  | 2.40     |           |
|                  | 2.41     |           |
|                  | 2.42     |           |
|                  | 2.43     |           |
|                  | 2.44     | 102080693 |

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Traffic Engineering Accident Analysis System  
Strip Analysis Report

**Study Criteria**

| Study Name           | Log No. | PH No. | TIP No. | K/A Cf. | B/C Cf. | ADT | ADT Route |
|----------------------|---------|--------|---------|---------|---------|-----|-----------|
| GUILFORDBRIDGE400271 |         |        |         | 76.8    | 8.4     | 400 |           |

| Request Date | Courier Service | Phone No. | Ext. | Fax No. |
|--------------|-----------------|-----------|------|---------|
|--------------|-----------------|-----------|------|---------|

| County   |      |      | Municipality  |      |            |            |           |       |
|----------|------|------|---------------|------|------------|------------|-----------|-------|
| Name     | Code | Div. | Name          | Code | Y-Line Ft. | Begin Date | End Date  | Years |
| GUILFORD | 40   | 7    | All and Rural |      | 0          | 5/1/2003   | 4/30/2013 | 10.00 |

| Location Text                                                           | Requestor                                           |
|-------------------------------------------------------------------------|-----------------------------------------------------|
| 500 feet on either side of bridge 400271 on SR 3343 (Coble Church Road) | Consultant Bridge Replacement Crash Analysis Report |

| Included Accidents | Old MP | New MP | Type |
|--------------------|--------|--------|------|
| 102080693          |        | 2.44   | I    |

| Fiche Roads  |          |
|--------------|----------|
| Name         | Code     |
| SR 3343      | 40003343 |
| SR 3336      | 40003336 |
| COBLE CHURCH | 50006471 |

| Strip Road |          |          |        |       |            |
|------------|----------|----------|--------|-------|------------|
| Name       | Code     | Begin MP | End MP | Miles | Kilometers |
| SR 3343    | 40003343 | 2.244    | 2.444  | 0.200 | 0.322      |

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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