

Bridge Approach Speed Investigation

Bridge # 950131 over Yellow Swamp on SR 1130 (Durham Lake Rd)
Wayne County
WBS Element # 17BP.4.R.44



Document Prepared By:

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May 2, 2012

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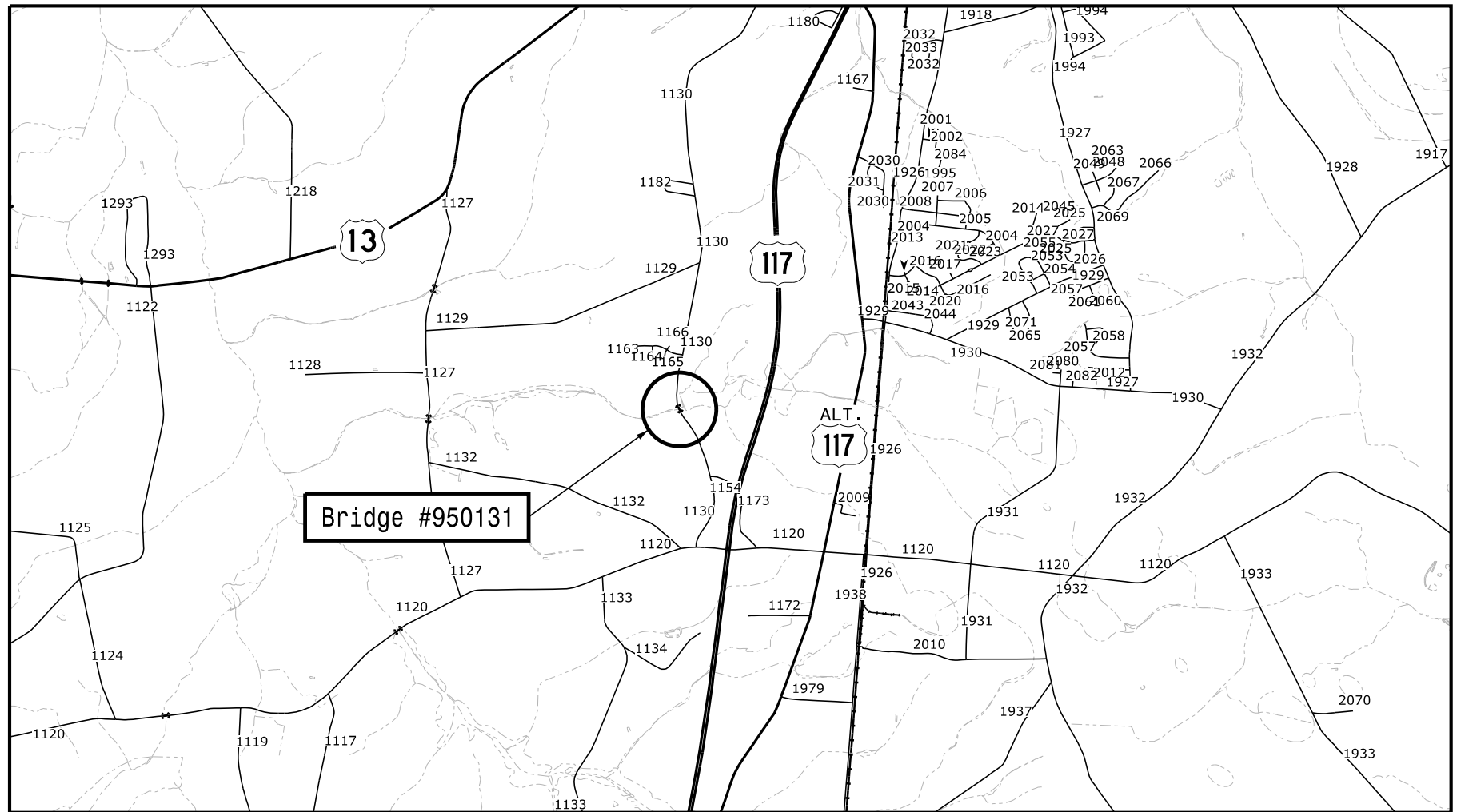


Bradley A. Reynolds, PE
Project Manager



Division 4 - Wayne 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	Wayne	950131	Bridge #131 over Yellow Swamp on SR 1130	35.28086844	-78.05778724



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1"=5000'
SCALE

Bridge and Approach Investigation Checklist

Project 17BP.4.R.44

Description Bridge #131 over Yellow Swamp on SR 1130

Route SR 1130 (Durham Lake Rd)

Division 4

County Wayne

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 50-55 mph

Speed Data Fifteen speed data points taken due to sparseness of traffic.
45 mph, 59 mph, 41 mph, 42 mph, 59 mph, 39 mph, 41 mph,
54 mph, 48 mph, 53 mph, 43 mph, 51 mph, 57 mph, 43 mph, 43 mph,

Ball Bank Speed Study South: 50 mph: NB - 8; 55 mph: NB -10
North: 50 mph: SB - 10; 55 mph: SB - 12

Warning Signs at Bridge Object Markers (W23-10) - one located at each bridge corner
Weight Limit Signs (Single Vehicle 18 tons, TTST 26 tons) - 1x each Appr.
W1-2 Curve Warning Sign with 35 mph advisory speed plaque - 1x each Appr.

Roadside Development Durham's Lake Recreational Area on east side
Wooded/Undeveloped on west side

ADT History 1300 vpd from 2010 NCDOT Traffic Survey Map
1200 vpd from 2003 NCDOT Traffic Survey Map

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 21' overall pavement width with 10.5' lanes

Approach Shoulder Width: Varies from 6' to 10'±
Shoulder Type Grass

Lane Width (existing bridge) 24' overall pavement width with 9.5' lanes

Shoulder width (existing bridge) ±2-3'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section Local Road
11' Lanes, 3' Shoulders

Crash History and Safety Considerations Nine reported collisions in a ten-year history (2/1/02 to 1/31/2012).
Two fatalities near bridge. Two crashes involved the bridge. Multiple crashes
into the drainage ditches.

Comments Bridge located in curve
Guardrail on all four approaches
Fishing bridge located 40' east of bridge
Durham's Lake driveways 150' north and 250' south of bridge

Reasonable Bridge Speed 55 mph

County: Wayne

Description: Bridge #131 over Yellow Swamp

Route: SR 1130

SR 1130 (Durham Lake Rd) Eastbound $\pm 150'$ from Bridge #131



SR 1130 (Durham Lake Rd) Eastbound $\pm 50'$ from Bridge #131



SR 1130 (Durham Lake Rd) Westbound $\pm 150'$ from Bridge #131



SR 1130 (Durham Lake Rd) Westbound $\pm 50'$ from Bridge #131



County: Wayne

Description: Bridge #131 over Yellow Swamp

Route: SR 1130

View from southeast of Bridge #131 structure



View from northeast of Bridge #131 structure



Private fishing bridge east of Bridge #131



Bridge Approach Speed Crash Analysis Request

Order # 41000018683

500 feet on Both Sides of Bridge Number 131 on Secondary Route 1130 (Woodland Church Road) over Yellow Swamp in Wayne 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.

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

Study Criteria Summary

County: WAYNE **City:** All and Rural
Date: 02/01/2002 to 01/31/2012 **Study:** 41000018683
Location: 500 feet on Both Sides of Bridge Number 131 on Secondary Route 1130 (Woodland Church Road) over Yellow Swamp

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	102748634	4.330	12/20/2009 04:03	FIXED OBJECT	\$ 2000	0	0	0	2	1	5	2	5	0	13	1
Unit	1 : 1	Alchl/Drgs:	1	Speed:	55 MPH Dir: S	Veh Mnvr/Ped Actn:				4	Obj Strk:			58		
2	102810763	4.330	03/02/2010 16:33	FIXED OBJECT	\$ 5000	1	0	1	0	2	1	3	7	0	13	1
Unit	1 : 1	Alchl/Drgs:	0	Speed:	55 MPH Dir: N	Veh Mnvr/Ped Actn:				4	Obj Strk:			58		
3	103019261	4.330	11/21/2010 09:07	LEFT TURN, SAME ROADWAY	\$ 1000	0	0	0	0	1	1	1	5	0	13	1
Unit	1 : 1	Alchl/Drgs:	0	Speed:	45 MPH Dir: S	Veh Mnvr/Ped Actn:				6	Obj Strk:					
Unit	2 : 20	Alchl/Drgs:	0	Speed:	15 MPH Dir: S	Veh Mnvr/Ped Actn:				8	Obj Strk:			33		
4	100763834	4.360	11/19/2002 05:30	RAN OFF ROAD - RIGHT	\$ 2500	0	0	0	0	1	5	1	5	0	13	1
Unit	1 : 2	Alchl/Drgs:	0	Speed:	65 MPH Dir: S	Veh Mnvr/Ped Actn:				4	Obj Strk:			49		
5	101057066	4.360	11/30/2003 20:00	FIXED OBJECT	\$ 4800	0	0	0	0	1	5	1	5	0	13	1
Unit	1 : 1	Alchl/Drgs:	0	Speed:	65 MPH Dir: S	Veh Mnvr/Ped Actn:				4	Obj Strk:			41		
6	100583163	4.390	03/21/2002 22:44	RAN OFF ROAD - RIGHT	\$ 30000	1	0	0	0	1	5	1	7	0	13	1
Unit	1 : 2	Alchl/Drgs:	7	Speed:	75 MPH Dir: S	Veh Mnvr/Ped Actn:				4	Obj Strk:			58		
7	102593489	4.430	05/18/2009 19:19	PARKED MOTOR VEHICLE	\$ 9000	0	0	1	0	1	1	1	1	0	13	1
Unit	1 : 1	Alchl/Drgs:	1	Speed:	55 MPH Dir: S	Veh Mnvr/Ped Actn:				4	Obj Strk:			20		
Unit	2 : 2	Alchl/Drgs:	7	Speed:	0 MPH Dir: W	Veh Mnvr/Ped Actn:				2	Obj Strk:			20		
8	103362341	4.430	01/23/2012 21:19	FIXED OBJECT	\$ 3500	0	0	0	1	2	5	2	1	0	13	1
Unit	1 : 1	Alchl/Drgs:	0	Speed:	55 MPH Dir: S	Veh Mnvr/Ped Actn:				4	Obj Strk:			33		
9	100809420	4.450	01/18/2003 17:25	RAN OFF ROAD - RIGHT	\$ 3000	0	0	0	2	1	2	2	5	0	13	1
Unit	1 : 1	Alchl/Drgs:	0	Speed:	75 MPH Dir: N	Veh Mnvr/Ped Actn:				4	Obj Strk:			58		

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

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

**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

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

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	9	100.00
Fatal Crashes	2	22.22
Non-Fatal Injury Crashes	4	44.44
Total Injury Crashes	6	66.67
Property Damage Only Crashes	3	33.33
Night Crashes	5	55.56
Wet Crashes	2	22.22
Alcohol/Drugs Involvement Crashes	2	22.22

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	9	100.00
Fatal Crashes	2	22.22
Class A Crashes	0	0.00
Class B Crashes	1	11.11
Class C Crashes	3	33.33
Property Damage Only Crashes	3	33.33

Vehicle Exposure Statistics

Annual ADT = 1420

Total Length = 0.196 (Miles) 0.315 (Kilometers)

Total Vehicle Exposure = 1.02 (MVMT) 1.64 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	885.46	550.20
Fatal Crash Rate	196.77	122.27
Non Fatal Crash Rate	393.54	244.53
Night Crash Rate	491.92	305.67
Wet Crash Rate	196.77	122.27
EPDO Rate	18712.64	11627.50

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

Miscellaneous Statistics

Severity Index =	21.13
EPDO Crash Index =	190.20
Estimated Property Damage Total = \$	60800.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
FIXED OBJECT	4	44.44
LEFT TURN, SAME ROADWAY	1	11.11
PARKED MOTOR VEHICLE	1	11.11
RAN OFF ROAD - RIGHT	3	33.33

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	2	22.22
Class A Injuries	0	0.00
Class B Injuries	2	22.22
Class C Injuries	5	55.56
Total Non-Fatal Injuries	7	77.78
Total Injuries	9	100.00

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

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	2	22.22
Feb	0	0.00
Mar	2	22.22
Apr	0	0.00
May	1	11.11
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	0	0.00
Oct	0	0.00
Nov	3	33.33
Dec	1	11.11

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	2	22.22
Tue	2	22.22
Wed	0	0.00
Thu	1	11.11
Fri	0	0.00
Sat	1	11.11
Sun	3	33.33

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Traffic Engineering Accident Analysis System
Strip Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	1	11.11
0500-0559	1	11.11
0600-0659	0	0.00
0700-0759	0	0.00
0800-0859	0	0.00
0900-0959	1	11.11
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	1	11.11
1700-1759	1	11.11
1800-1859	0	0.00
1900-1959	1	11.11
2000-2059	1	11.11
2100-2159	1	11.11
2200-2259	1	11.11
2300-2359	0	0.00

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Traffic Engineering Accident Analysis System
Strip Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	2	1	0	3
Dark	4	1	0	5
Other	1	0	0	1
Total	7	2	0	9

Object Struck Summary

Object Type	Times Struck	Percent of Total
BRIDGE RAIL END	1	10.00
DITCH	4	40.00
GUARDRAIL END ON SHOULDER	1	10.00
PARKED MOTOR VEHICLE	2	20.00
TREE	2	20.00

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
MOTORCYCLE	1	9.09
PASSENGER CAR	7	63.64
PICKUP	3	27.27

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Traffic Engineering Accident Analysis System
Strip Analysis Report

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2002	2	1	0	1
2003	2	0	1	1
2004	0	0	0	0
2005	0	0	0	0
2006	0	0	0	0
2007	0	0	0	0
2008	0	0	0	0
2009	2	0	2	0
2010	2	1	0	1
2011	0	0	0	0
2012	1	0	1	0
Total	9	2	4	3

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2002	1	0
2003	0	2
2004	0	0
2005	0	0
2006	0	0
2007	0	0
2008	0	0
2009	0	3
2010	1	1
2011	0	0
2012	0	1
Total	2	7

Miscellaneous Totals

Year	Property Damage	EPDO Index
2002	\$ 32500	77.80
2003	\$ 7800	9.40
2004	\$ 0	0.00

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Traffic Engineering Accident Analysis System
Strip Analysis Report**

Year	Property Damage	EPDO Index
2005	\$ 0	0.00
2006	\$ 0	0.00
2007	\$ 0	0.00
2008	\$ 0	0.00
2009	\$ 11000	16.80
2010	\$ 6000	77.80
2011	\$ 0	0.00
2012	\$ 3500	8.40
Total	\$ 60800	190.20

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object	Angle	Side Swipe	Other
2002	0	0	0	2	0	0	0
2003	0	0	0	2	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	0
2008	0	0	0	0	0	0	0
2009	0	0	0	1	0	0	1
2010	1	0	0	1	0	0	0
2011	0	0	0	0	0	0	0
2012	0	0	0	1	0	0	0
Total	1	0	0	7	0	0	1

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Traffic Engineering Accident Analysis System
Strip Analysis Report

Strip Diagram

Features	Milepost	Crash IDs
	4.260	
	4.270	
	4.280	
	4.290	
	4.300	
	4.310	
	4.320	
	4.330	102748634 102810763 103019261
	4.340	
BEGIN BRIDGE STRUCTURE	4.350	
Structure:950131	4.360	100763834 101057066
END BRIDGE STRUCTURE	4.370	
	4.380	
	4.390	100583163
	4.400	
	4.410	
	4.420	
	4.430	102593489 103362341
	4.440	
	4.450	100809420
	4.460	

**North Carolina Department of Transportation
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
41000018683	41000018683			76.8	8.4	1420	40001130

Request Date	Courier Service	Phone No.	Ext.	Fax No.
03/23/2012		(252)237-6164		

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
WAYNE	95	4	All and Rural		0	02/01/2002	01/31/2012	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 131 on Secondary Route 1130 (Woodland Church Road) over Yellow Swamp	Mr. Haywood Daughtry III, PE Eastern & OBX Region Wilson NC

Included Accidents	Old MP	New MP	Type
100763834	4.34	4.36	R
101057066		4.36	I

Fiche Roads

Name	Code
SR 1130	40001130
WOODLAND CHURCH	50033578

Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1130	40001130	4.262	4.458	0.196	0.315

North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Fiche, Intersection, and Strip Reports Code Index

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

**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Fiche, Intersection, and Strip Reports Code Index**

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

**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Fiche, Intersection, and Strip Reports Code Index**

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