

Bridge and Approach Investigation Checklist

Project _____
Description **Bridge 124** _____
Route **SR 1113** _____
Division **12** _____
County **Lincoln** _____

Existing Speed Limit **55 unposted** MPH
Reasonable & Comfortable Passenger Car Speed **55** MPH
Speed Data **NA** _____
Ball Bank Speed Study **Ball Bank 10 deg @ 55 mph** _____
Warning Signs at Bridge **Bridge end delineators** _____
Roadside Development **25%** _____
ADT History **2009 - 1600 vpd ; 2007 - 2900 vpd** _____
Pedestrian/Bicycle Traffic **UNKNOWN** _____
Bridge and Approach Digital Photos **SEE ATTACHED** _____
Approach Lane Width **9 FEET** _____
Approach Shoulder Width: **4 to 8 FEET**
Shoulder Type **grass** _____
Lane Width (existing bridge) **9 FEET** _____
Shoulder width (existing bridge) **3 FEET** _____
Strategic Corridor / Thoroughfare Designation and Recommended Cross Section _____
Crash History and Safety Considerations **There have been 4 crashes in the vicinity of bridge #124 in a recent 10 year period** _____

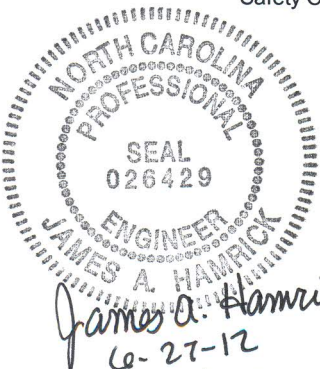
Comments _____

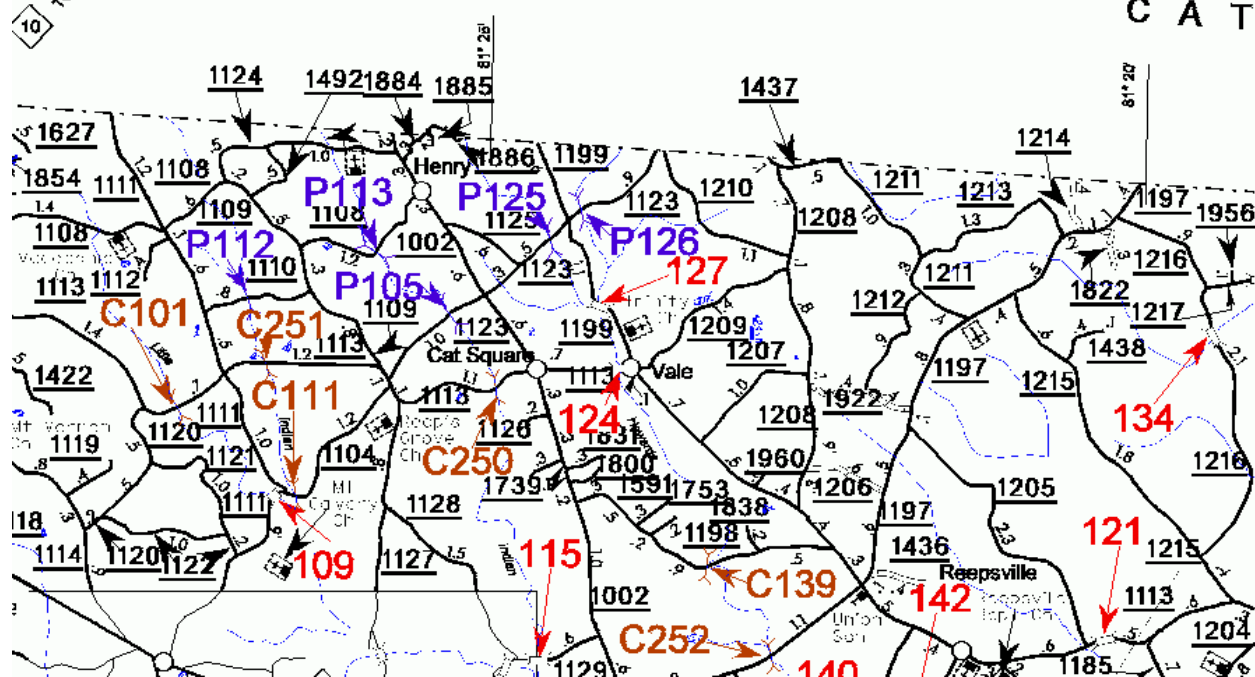
Reasonable Bridge Speed **55** MPH

Investigated by: J. A. Hamrick, P. E.

Date: 6/27/2012

Reviewed by: _____





Bridge 124

Lincoln Co.

LINCOLN COUNTY
STATE PROJECT 9-403
FEDERAL AID
1948



WB SR 1113



WB SR 1113



EB SR 1113



EB SR 1113

Bridge Approach Speed Crash Analysis Request

Order # 41000019916

**500 feet on Both Sides of Bridge Number 124 on Secondary Route 1113 (Reepsville Road)
over Howard's Creek in Lincoln 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: LINCOLN **City:** All and Rural
Date: 05/01/2002 **to** 04/30/2012 **Study:** 41000019916
Location: 500 feet on Both Sides of Bridge Number 124 on Secondary Route 1113 (Reepsville Road) over Howards 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	100771149	5.122	11/29/2002 00:01	FIXED OBJECT	\$ 6000	0	0	2	0	1	5	1	3	0	13	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 55 MPH Dir: E		Veh Mnvr/Ped Actn:				4			Obj Strk:		49	
2	102220884	5.127	12/19/2007 08:25	FIXED OBJECT	\$ 7500	0	0	0	0	4	1	2	5	0	13	1
Unit	1 : 2	Alchl/Drgs:	0	Speed: 55 MPH Dir: W		Veh Mnvr/Ped Actn:				4			Obj Strk:		59	
3	102506876	5.130	01/02/2009 09:19	FIXED OBJECT	\$ 5150	0	0	0	0	4	1	2	5	1	13	1
Unit	1 : 2	Alchl/Drgs:	0	Speed: 40 MPH Dir: W		Veh Mnvr/Ped Actn:				4			Obj Strk:		59	
4	103051618	5.142	12/25/2010 15:30	FIXED OBJECT	\$ 2000	0	0	0	0	5	1	4	1	0	13	1
Unit	1 : 2	Alchl/Drgs:	0	Speed: 45 MPH Dir: W		Veh Mnvr/Ped Actn:				4			Obj Strk:		49	
5	102044178	5.227	05/21/2007 08:46	LEFT TURN, DIFFERENT ROADWAYS	\$ 2400	0	0	0	1	1	1	1	1	0	1	1
Unit	1 : 5	Alchl/Drgs:	0	Speed: 10 MPH Dir: S		Veh Mnvr/Ped Actn:				8			Obj Strk:			
Unit	2 : 20	Alchl/Drgs:	0	Speed: 40 MPH Dir: W		Veh Mnvr/Ped Actn:				4			Obj Strk:			
6	102446361	5.227	11/02/2008 00:30	FIXED OBJECT	\$ 1500	0	0	0	0	1	5	1	3	0	1	1
Unit	1 : 4	Alchl/Drgs:	1	Speed: 45 MPH Dir: S		Veh Mnvr/Ped Actn:				4			Obj Strk:		58	
7	103031618	5.227	12/04/2010 13:34	SIDESWIPE, OPPOSITE DIRECTION	\$ 7500	0	0	0	0	4	1	4	7	0	13	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 50 MPH Dir: E		Veh Mnvr/Ped Actn:				4			Obj Strk:			
Unit	2 : 2	Alchl/Drgs:	0	Speed: 30 MPH Dir: W		Veh Mnvr/Ped Actn:				4			Obj Strk:			
Unit	3 : 4	Alchl/Drgs:	0	Speed: 50 MPH Dir: E		Veh Mnvr/Ped Actn:				4			Obj Strk:			

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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	7	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	2	28.57
Total Injury Crashes	2	28.57
Property Damage Only Crashes	5	71.43
Night Crashes	2	28.57
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	1	14.29

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	7	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	1	14.29
Class C Crashes	1	14.29
Property Damage Only Crashes	5	71.43

Vehicle Exposure Statistics

Annual ADT = 2900

Total Length = 0.21 (Miles) 0.338 (Kilometers)

Total Vehicle Exposure = 2.22 (MVMT) 3.58 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	314.65	195.52
Fatal Crash Rate	0.00	0.00
Non Fatal Crash Rate	89.90	55.86
Night Crash Rate	89.90	55.86
Wet Crash Rate	0.00	0.00
EPDO Rate	979.92	608.89

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

Miscellaneous Statistics

Severity Index =	3.11
EPDO Crash Index =	21.80
Estimated Property Damage Total = \$	32050.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
FIXED OBJECT	5	71.43
LEFT TURN, DIFFERENT ROADWAYS	1	14.29
SIDESWIPE, OPPOSITE DIRECTION	1	14.29

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	2	66.67
Class C Injuries	1	33.33
Total Non-Fatal Injuries	3	100.00
Total Injuries	3	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	1	14.29
Feb	0	0.00
Mar	0	0.00
Apr	0	0.00
May	1	14.29
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	0	0.00
Oct	0	0.00
Nov	2	28.57
Dec	3	42.86

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	1	14.29
Tue	0	0.00
Wed	1	14.29
Thu	0	0.00
Fri	2	28.57
Sat	2	28.57
Sun	1	14.29

North Carolina Department of Transportation
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Strip Analysis Report

Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	2	28.57
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	2	28.57
0900-0959	1	14.29
1000-1059	0	0.00
1100-1159	0	0.00
1200-1259	0	0.00
1300-1359	1	14.29
1400-1459	0	0.00
1500-1559	1	14.29
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	0	0.00
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	1	0	4	5
Dark	2	0	0	2
Other	0	0	0	0
Total	3	0	4	7

Object Struck Summary

Object Type	Times Struck	Percent of Total
BRIDGE RAIL END	2	40.00
DITCH	1	20.00
EMBANKMENT	2	40.00

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
MOTORCYCLE	1	10.00
PASSENGER CAR	2	20.00
PICKUP	4	40.00
SPORT UTILITY	2	20.00
VAN	1	10.00

North Carolina Department of Transportation
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	1	0	1	0
2003	0	0	0	0
2004	0	0	0	0
2005	0	0	0	0
2006	0	0	0	0
2007	2	0	1	1
2008	1	0	0	1
2009	1	0	0	1
2010	2	0	0	2
2011	0	0	0	0
2012	0	0	0	0
Total	7	0	2	5

Injury Totals

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

Miscellaneous Totals

Year	Property Damage	EPDO Index
2002	\$ 6000	8.40
2003	\$ 0	0.00
2004	\$ 0	0.00

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Year	Property Damage	EPDO Index
2005	\$ 0	0.00
2006	\$ 0	0.00
2007	\$ 9900	9.40
2008	\$ 1500	1.00
2009	\$ 5150	1.00
2010	\$ 9500	2.00
2011	\$ 0	0.00
2012	\$ 0	0.00
Total	\$ 32050	21.80

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object	Angle	Side Swipe	Other
2002	0	0	0	1	0	0	0
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	1	0	0	1	0	0	0
2008	0	0	0	1	0	0	0
2009	0	0	0	1	0	0	0
2010	0	0	0	1	0	1	0
2011	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0
Total	1	0	0	5	0	1	0

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

Strip Diagram

Features	Milepost	Crash IDs
	5.030	
	5.040	
	5.050	
	5.060	
	5.070	
	5.080	
	5.090	
	5.100	
	5.110	
BEGIN BRIDGE STRUCTURE	5.120	100771149
Structure:540124	5.130	102220884 102506876
END BRIDGE STRUCTURE	5.140	103051618
	5.150	
	5.160	
	5.170	
	5.180	
	5.190	
	5.200	
	5.210	
	5.220	
SR 1199	5.230	102044178 102446361 103031618
	5.240	

North Carolina Department of Transportation
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Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000019916	41000019916			76.8	8.4	2900	40001113

Request Date	Courier Service	Phone No.	Ext.	Fax No.
06/14/2012		(704)480-5291		

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
LINCOLN	54	12	All and Rural		0	05/01/2002	04/30/2012	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 124 on Secondary Route 1113 (Reepsville Road) over Howards Creek	Jimmy Hamrick, PE High Country & Foothills Region Shelby NC

Included Accidents	Old MP	New MP	Type
100771149	5.212	5.122	R
102506876	5.17	5.13	R

Excluded Accidents
100807319

Fiche Roads	
Name	Code
SR 1113	40001113
REEPSVILLE	50025604

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1113	40001113	5.028	5.238	0.210	0.338

**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