

Bridge Approach Speed Investigation

Bridge # 310085 over Little Lick Creek on SR 1814 (Stallings Rd)
Durham County
WBS Element # 17BP.5.R.18



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Principal Investigator

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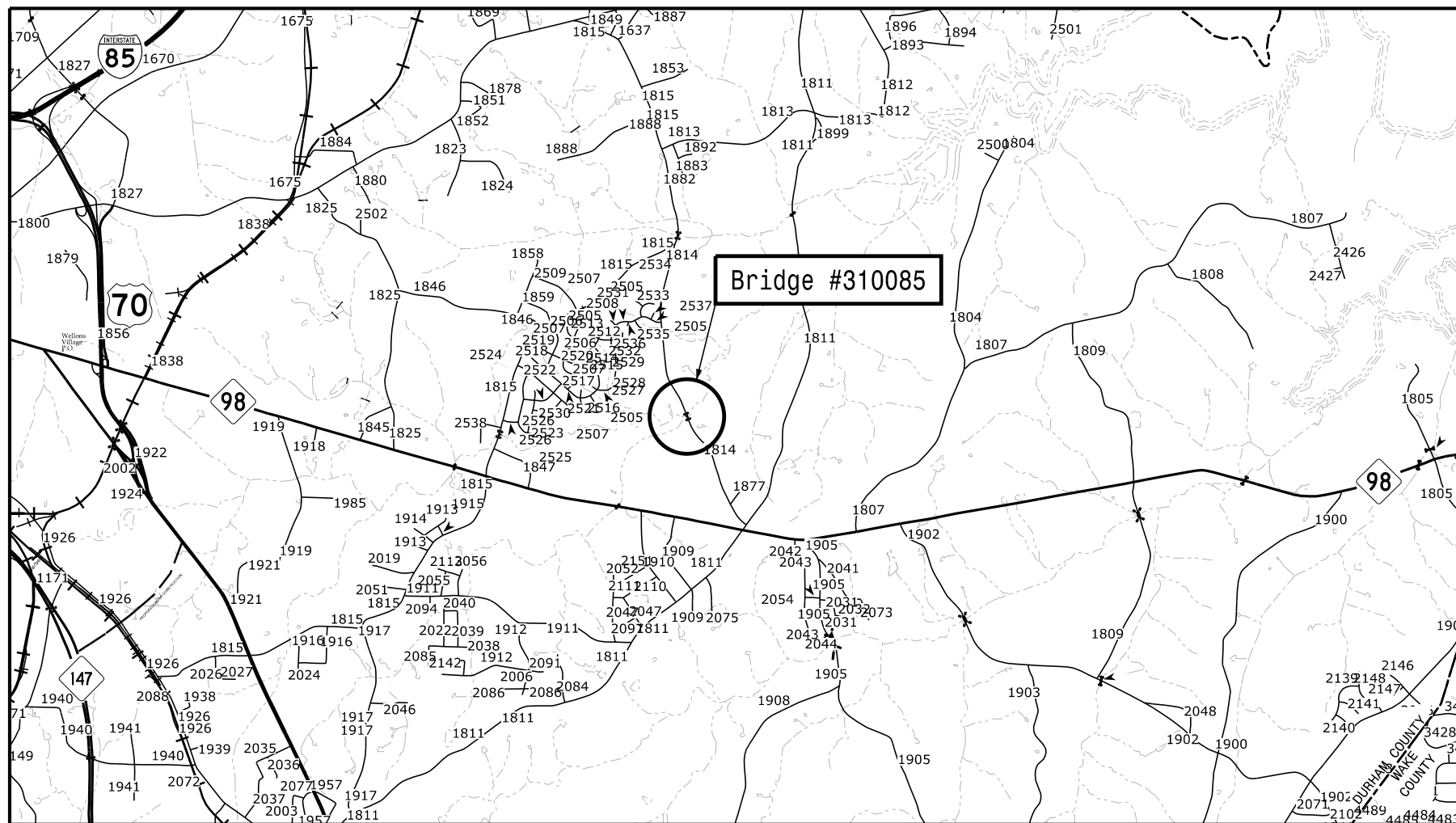
Project Manager

Bradley Reynolds

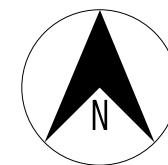
Bradley A. Reynolds, PE
Project Manager



Bridge locations plotted based on coordinates provided by Bridge Management



Division	County	Structure Number	Structure Description	Latitude	Longitude
5	Durham	310085	Bridge #85 over Little Lick Creek on SR 1814	35.98667886	-78.79909255



1" = 5000'
SCALE

Bridge and Approach Investigation Checklist

Project 17BP.5.R.18

Description Bridge #85 over Little Lick Creek on SR 1814

Route SR 1814 (Stallings Rd)

Division 5

County Durham

Existing Speed Limit 45 ☒ Posted ☐ Statutory

Reasonable & Comfortable Passenger Car Speed 45-50 mph

Speed Data N/A

Ball Bank Speed Study Slight curve south of bridge ball banks at 10 degrees at 50 mph

Warning Signs at Bridge Object Markers (OM-3L & OM-3R) - one located at each bridge corner
Speed Limit 45 mph (R2-1) - 1x each Apr.

Roadside Development Residential/Wooded. High voltage power lines and power substation.
Gravel road S of bridge to a City of Durham property.

ADT History 6600 vpd from 2009 NCDOT Traffic Survey Map
5300 vpd from 2005 NCDOT Traffic Survey Map

Pedestrian/Bicycle Traffic None observed. Sidewalk present in NW quadrant; short sidewalk segment in SW quadrant.

Bridge and Approach Digital Photos Attached

Approach Lane Width 20' overall pavement width with 10' lanes

Approach Shoulder Width: Varies from 6' to 9'±
Shoulder Type Grass; curb & gutter in NW quadrant.

Lane Width (existing bridge) 24' overall pavement width with 10' lanes

Shoulder width (existing bridge) 2'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section N/A, DCHC MPO-designated Collector

Crash History and Safety Considerations Four reported collisions in a ten-year history (2/1/02 to 1/31/2012).
No collisions on the bridge. Nearby collisions included one fatal collision north of the bridge (speed/alcohol-related).

Comments Weight limit signs not present.

Reasonable Bridge Speed 45 mph

County: Durham

Description: Bridge #85 over Little Lick Creek

Route: SR 1814

SR 1814 (Stallings Rd) Northbound $\pm 200'$ from Bridge #85

SR 1814 (Stallings Rd) Northbound $\pm 50'$ from Bridge #85



SR 1814 (Stallings Rd) Southbound $\pm 200'$ from Bridge #85

SR 1814 (Stallings Rd) Southbound $\pm 50'$ from Bridge #85



County: Durham

Description: Bridge #85 over Little Lick Creek

Route:SR 1814

Northbound view of Bridge #85 structure



Northbound view of Sidewalk



Bridge Approach Speed Crash Analysis Request

Order # 41000018379

**500 feet on Both Sides of Bridge Number 85 on Secondary Route 1814 (Stallings Road)
over Little Lick Creek in Durham 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: DURHAM **City:** All and Rural
Date: 02/01/2002 to 01/31/2012 **Study:** 41000018379
Location: 500 feet on Both Sides of Bridge Number 85 on Secondary Route 1814 (Stallings Road) over Little Lick 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	101892243	0.800	11/20/2006 18:00	ANIMAL	\$ 1500	0	0	0	0	1	5	1	1	0	2	
Unit 1 : 1 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: 17																
2	101408327	0.870	02/12/2005 15:00	REAR END, SLOW OR STOP	\$ 20750	1	2	0	1	1	1	1	1	0	13	1
Unit 1 : 1 Alchl/Drgs: 1 Speed: 90 MPH Dir: N Veh Mnvr/Ped Actn: 6 Obj Strk: Unit 2 : 2 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: Unit 3 : 2 Alchl/Drgs: 0 Speed: 45 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: 33																
3	101504236	0.980	06/23/2005 19:56	OTHER NON-COLLISION	\$ 2500	0	0	0	0	1	2	1	7	0	13	2
Unit 1 : 1 Alchl/Drgs: 7 Speed: 25 MPH Dir: NW Veh Mnvr/Ped Actn: 4 Obj Strk: 58																
4	101522288	0.990	07/20/2005 16:45	FIXED OBJECT	\$ 6600	0	0	1	0	1	1	1	7	0	13	1
Unit 1 : 2 Alchl/Drgs: 0 Speed: 60 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk:																

**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/Drgs - Alcohol Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

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Traffic Engineering Accident Analysis System
Strip Analysis Report

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	1	25.00
Non-Fatal Injury Crashes	1	25.00
Total Injury Crashes	2	50.00
Property Damage Only Crashes	2	50.00
Night Crashes	1	25.00
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	1	25.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	1	25.00
Class A Crashes	0	0.00
Class B Crashes	1	25.00
Class C Crashes	0	0.00
Property Damage Only Crashes	2	50.00

Vehicle Exposure Statistics

Annual ADT = 5700

Total Length = 0.198 (Miles) 0.319 (Kilometers)

Total Vehicle Exposure = 4.12 (MVMT) 6.63 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	97.05	60.30
Fatal Crash Rate	24.26	15.08
Non Fatal Crash Rate	24.26	15.08
Night Crash Rate	24.26	15.08
Wet Crash Rate	0.00	0.00
EPDO Rate	2115.66	1314.61

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Strip Analysis Report**

Miscellaneous Statistics

Severity Index =	21.80
EPDO Crash Index =	87.20
Estimated Property Damage Total = \$	31350.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANIMAL	1	25.00
FIXED OBJECT	1	25.00
OTHER NON-COLLISION	1	25.00
REAR END, SLOW OR STOP	1	25.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	1	20.00
Class A Injuries	2	40.00
Class B Injuries	1	20.00
Class C Injuries	1	20.00
Total Non-Fatal Injuries	4	80.00
Total Injuries	5	100.00

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Strip Analysis Report

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	1	25.00
Mar	0	0.00
Apr	0	0.00
May	0	0.00
Jun	1	25.00
Jul	1	25.00
Aug	0	0.00
Sep	0	0.00
Oct	0	0.00
Nov	1	25.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	1	25.00
Tue	0	0.00
Wed	1	25.00
Thu	1	25.00
Fri	0	0.00
Sat	1	25.00
Sun	0	0.00

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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	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	1	25.00
1600-1659	1	25.00
1700-1759	0	0.00
1800-1859	1	25.00
1900-1959	1	25.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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Strip Analysis Report

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	2	0	0	2
Dark	1	0	0	1
Other	1	0	0	1
Total	4	0	0	4

Object Struck Summary

Object Type	Times Struck	Percent of Total
ANIMAL	1	33.33
DITCH	1	33.33
TREE	1	33.33

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	3	50.00
PICKUP	3	50.00

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Yearly Totals Summary

Accident Totals

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

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2002	0	0
2003	0	0
2004	0	0
2005	1	4
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0
2011	0	0
2012	0	0
Total	1	4

Miscellaneous Totals

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

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Year	Property Damage	EPDO Index
2005	\$ 29850	86.20
2006	\$ 1500	1.00
2007	\$ 0	0.00
2008	\$ 0	0.00
2009	\$ 0	0.00
2010	\$ 0	0.00
2011	\$ 0	0.00
2012	\$ 0	0.00
Total	\$ 31350	87.20

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object	Angle	Side Swipe	Other
2002	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0
2005	0	0	1	1	0	0	1
2006	0	0	0	0	0	0	1
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	0	0	0	0
2011	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0
Total	0	0	1	1	0	0	2

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Strip Analysis Report

Strip Diagram

Features	Milepost	Crash IDs
BEGIN	0.800	101892243
	0.810	
	0.820	
	0.830	
	0.840	
	0.850	
	0.860	
	0.870	101408327
	0.880	
BEGIN BRIDGE STRUCTURE	0.890	
Structure:310085		
END BRIDGE STRUCTURE	0.900	
	0.910	
	0.920	
	0.930	
	0.940	
	0.950	
	0.960	
	0.970	
	0.980	101504236
END	0.990	101522288

North Carolina Department of Transportation
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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
41000018379	41000018379			76.8	8.4	5700	40001814

Request Date	Courier Service	Phone No.	Ext.	Fax No.
03/08/2012				

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
DURHAM	31	5	All and Rural		0	02/01/2002	01/31/2012	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 85 on Secondary Route 1814 (Stallings Road) over Little Lick Creek	Kelly L. Becker, P.E. Capital Region

Included Accidents	Old MP	New MP	Type
101408327	999.999	0.87	I
101504236	999.999	0.98	I
101522288	999.999	0.99	I
101892243	999.999	0.8	I

Fiche Roads

Name	Code
SR 1814	40001814
STALLING	50029003

Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1814	40001814	0.796	0.994	0.198	0.319

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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

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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

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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