

Bridge and Approach Investigation Checklist

Project 17BP.11.R.119
Description Bridge 72
Route SR 1320 (Congo Rd)
Division 11
County Wilkes

Existing Speed Limit 35 MPH
Reasonable & Comfortable Passenger Car Speed 30-35 MPH
Speed Data NA
Ball Bank Speed Study BB 10-12 at 35mph
Warning Signs at Bridge Bridge end delineators, Curve warning signs
Roadside Development 50% residential
ADT History 2013-1600 vpd, 2011-1600 vpd, 2009-1600 vpd, 2007-1700 vpd
Pedestrian/Bicycle Traffic UNKNOWN
Bridge and Approach Digital Photos SEE ATTACHED
Approach Lane Width 9 FEET
Approach Shoulder Width: 3 to 6 FEET
Shoulder Type _____
Lane Width (existing bridge) 10 FEET
Shoulder width (existing bridge) 2 FEET
Strategic Corridor / Thoroughfare Designation and Recommended Cross Section _____
Crash History and Safety Considerations 1 crash in recent 10 year study.

Comments Winding alignment on majority of road.

Reasonable Bridge Speed 35 MPH

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

Date: 1/6/2015

Reviewed by: _____



17BP.11.R.119

Bridge 72 on SR 1320 Wilkes Co



EB SR 1320



EB SR 1320



WB SR 1320



WB SR 1320



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

Study Criteria Summary

County: WILKES **City:** All and Rural
Date: 11/1/2010 **to** 10/31/2015 **Study:** 41000038461
Location: 500 feet on Both Sides of Bridge 72 on Secondary Route 1320 (Congo Rd) over Tucker Hole 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	103105023	1.915	03/05/2011 13:20	FIXED OBJECT	\$ 800	0	0	0	0	2	1	3	7	0	0	
Unit 1 : 1 Alchl/Drgs: 0 Speed: 35 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: 59																

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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Summary Statistics

High Level Crash Summary

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

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	1	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	1	100.00

Vehicle Exposure Statistics

Annual ADT = 1600

Total Length = 0.201 (Miles) 0.323 (Kilometers)

Total Vehicle Exposure = 0.59 (MVMT) 0.95 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	170.29	105.81
Fatal Crash Rate	0.00	0.00
Non Fatal Crash Rate	0.00	0.00
Night Crash Rate	0.00	0.00
Wet Crash Rate	170.29	105.81
EPDO Rate	170.29	105.81

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Miscellaneous Statistics

Severity Index =	1.00
EPDO Crash Index =	1.00
Estimated Property Damage Total = \$	800.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
FIXED OBJECT	1	100.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
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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Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	0	0.00
Mar	1	100.00
Apr	0	0.00
May	0	0.00
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	0	0.00
Oct	0	0.00
Nov	0	0.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	0	0.00
Tue	0	0.00
Wed	0	0.00
Thu	0	0.00
Fri	0	0.00
Sat	1	100.00
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	1	100.00
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	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	0	1	0	1
Dark	0	0	0	0
Other	0	0	0	0
Total	0	1	0	1

Object Struck Summary

Object Type	Times Struck	Percent of Total
EMBANKMENT	1	100.00

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	1	100.00

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Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2010	0	0	0	0
2011	1	0	0	1
2012	0	0	0	0
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0
Total	1	0	0	1

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2010	0	0
2011	0	0
2012	0	0
2013	0	0
2014	0	0
2015	0	0
Total	0	0

Miscellaneous Totals

Year	Property Damage	EPDO Index
2010	\$ 0	0.00
2011	\$ 800	1.00
2012	\$ 0	0.00
2013	\$ 0	0.00
2014	\$ 0	0.00
2015	\$ 0	0.00
Total	\$ 800	1.00

Type of Accident Totals

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

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Run Off Road &							
Year	Left Turn	Right Turn	Rear End	Fixed Object	Angle	Side Swipe	Other
2013	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0

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Strip Diagram

Features	Milepost	Crash IDs
Structure:960072	1.73	
	1.74	
	1.75	
	1.76	
	1.77	
	1.78	
	1.79	
	1.80	
	1.81	
	1.82	
	1.83	
	1.84	
	1.85	
	1.86	
	1.87	
	1.88	
	1.89	
	1.90	
	1.91	103105023
	1.92	
	1.93	

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Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000038461	41000038461			76.8	8.4	1600	40001320

Request Date	Courler Service	Phone No.	Ext.	Fax No.
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County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
WILKES	97	11	All and Rural		0	11/1/2010	10/31/2015	5.00

Location Text	Requestor
500 feet on Both Sides of Bridge 72 on Secondary Route 1320 (Congo Rd) over Tucker Hole Creek	

Included Accidents	Old MP	New MP	Type
103105023	1.315	1.915	I

Fiche Roads	
Name	Code
SR 1320	40001320
CONGO	50006764

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1320	40001320	1.733	1.934	0.201	0.323