

Bridge and Approach Investigation Checklist

Project 17BP.11.R.107
Description Bridge 325
Route SR 2488
Division 11
County Wilkes

Existing Speed Limit 55 MPH

Reasonable & Comfortable
Passenger Car Speed 20 MPH

Speed Data NA

Ball Bank Speed Study BB 18 degrees at 20mph

Warning Signs at Bridge Reverse Square Turn w/25 mph advisory, Bridge End Delineators, Narrow Bridge

Roadside Development 50%

ADT History Unknown

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 grass

Lane Width (existing bridge) 8 FEET

Shoulder width (existing bridge) 1 FEET

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section

Crash History and
Safety Considerations 1 crash in recent 10 year study

Comments

Reasonable Bridge Speed 25 MPH



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

Date: 7/17/2014

Reviewed by:

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

Study Criteria Summary

County: WILKES **City:** All and Rural
Date: 5/1/2004 **to** 4/30/2014 **Study:** BRIDGE325ONSR2488
Location: Bridge number 325 on SR 2488 (Lowe Creek Rd). 500 feet from each end.

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	Cl	Dv	Op
1	101752437	0.300	05/30/2006 20:30	FIXED OBJECT	\$ 2100	0	0	0	0	1	5	2	6	0	13	1
Unit 1 : 1 Alchl/Drgs: 0 Speed: 30 MPH Dir: W Veh Mnvr/Ped Actn: 4 Obj Strk: 33																

**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 Cl - 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	1	100.00
Wet Crashes	0	0.00
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 = 200

Total Length = 0.204 (Miles) 0.328 (Kilometers)

Total Vehicle Exposure = 0.15 (MVMT) 0.24 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	671.13	417.02
Fatal Crash Rate	0.00	0.00
Non Fatal Crash Rate	0.00	0.00
Night Crash Rate	671.13	417.02
Wet Crash Rate	0.00	0.00
EPDO Rate	671.13	417.02

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Miscellaneous Statistics

Severity Index =	1.00
EPDO Crash Index =	1.00
Estimated Property Damage Total = \$	2100.00

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	0	0.00
Apr	0	0.00
May	1	100.00
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	1	100.00
Wed	0	0.00
Thu	0	0.00
Fri	0	0.00
Sat	0	0.00
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	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	1	100.00
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	0	0	0
Dark	1	0	0	1
Other	0	0	0	0
Total	1	0	0	1

Object Struck Summary

Object Type	Times Struck	Percent of Total
TREE	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
2004	0	0	0	0
2005	0	0	0	0
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
2013	0	0	0	0
2014	0	0	0	0
Total	1	0	0	1

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
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
2014	0	0
Total	0	0

Miscellaneous Totals

Year	Property Damage	EPDO Index
2004	\$ 0	0.00
2005	\$ 0	0.00
2006	\$ 2100	1.00

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Year	Property Damage	EPDO Index
2007	\$ 0	0.00
2008	\$ 0	0.00
2009	\$ 0	0.00
2010	\$ 0	0.00
2011	\$ 0	0.00
2012	\$ 0	0.00
2013	\$ 0	0.00
2014	\$ 0	0.00
Total	\$ 2100	1.00

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road & Fixed Object	Angle	Side Swipe	Other
2004	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0
2006	0	0	0	1	0	0	0
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
2013	0	0	0	0	0	0	0
2014	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
	0.25	
	0.26	
	0.27	
	0.28	
	0.29	
	0.30	101752437
	0.31	
	0.32	
	0.33	
	0.34	
Structure:960325	0.35	
	0.36	
	0.37	
	0.38	
	0.39	
	0.40	
	0.41	
	0.42	
	0.43	
	0.44	
	0.45	
	0.46	

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Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
BRIDGE325ONSR2488			17bp11R107	76.8	8.4	200	

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

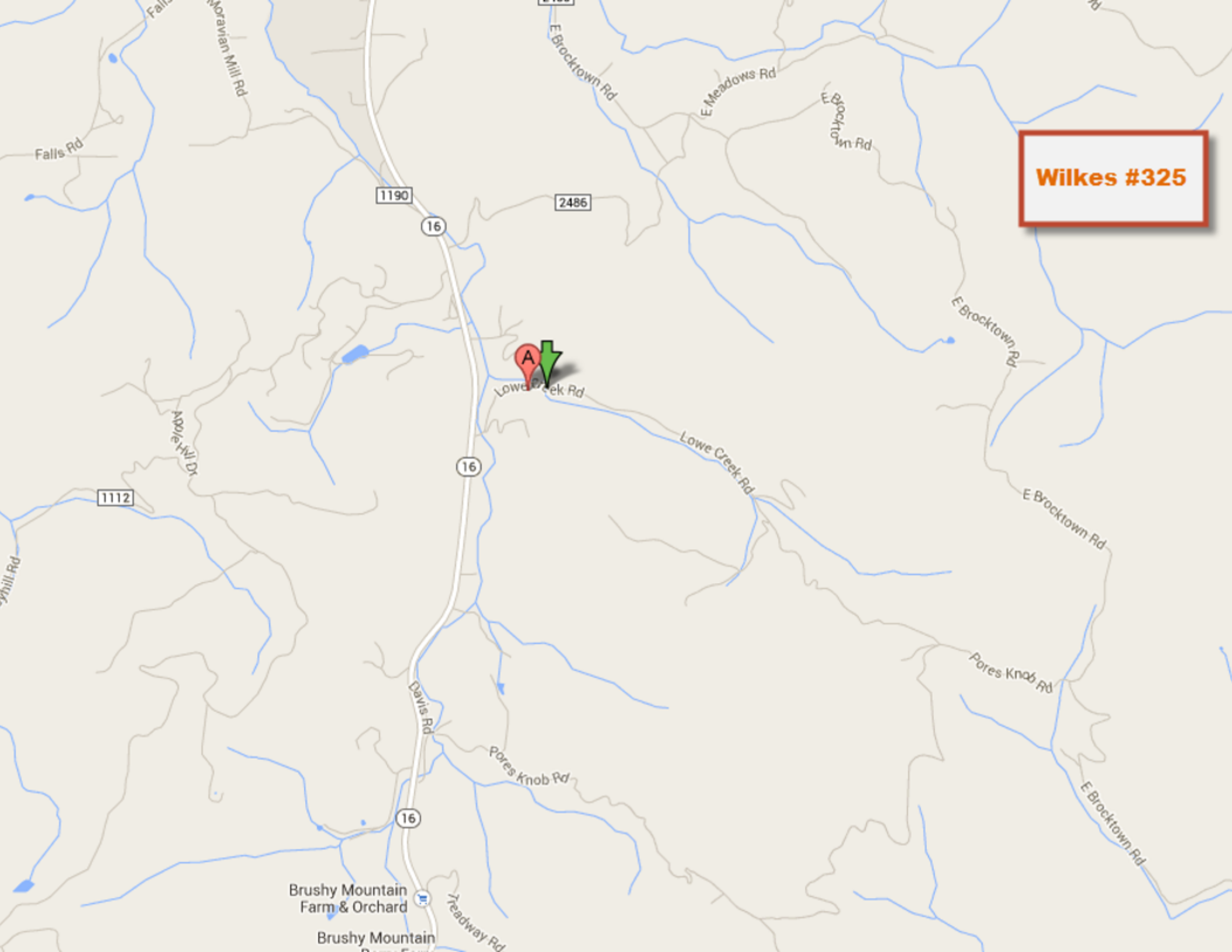
County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
WILKES	96	11	All and Rural		0	5/1/2004	4/30/2014	10.00

Location Text	Requestor
Bridge number 325 on SR 2488 (Lowe Creek Rd). 500 feet from each end.	Jimmy Hamrick, PE High Country and Foothills Safety Region

Fiche Roads	
Name	Code
SR 2488	40002488
LOWE	50018307

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 2488	40002488	0.253	0.457	0.204	0.328

Wilkes #325



Bridge # 325 Wilkes Co.





WB SR 2488



WB SR 2488



WB SR 2488



EB SR 2488



EB SR 2488



EB SR 2488