

Bridge and Approach Investigation Checklist

Project 17BP.11.R.99
Description Bridge # 52
Route SR 1132
Division 11
County Avery

Existing Speed Limit 55 MPH

Reasonable & Comfortable
Passenger Car Speed 25 MPH

Speed Data NA

Ball Bank Speed Study Curve north of bridge ballbank 10 at 20 mph

Warning Signs at Bridge Bridge End Delineators

Roadside Development 30%

ADT History 2008-780VPD, 2010-910VPD, 2012-620VPD

Pedestrian/Bicycle Traffic unknown

Bridge and Approach
Digital Photos See attached

Approach Lane Width 8 FEET

Approach Shoulder Width: 4 to 6 FEET
Shoulder Type grass

Lane Width (existing bridge) 8 FEET

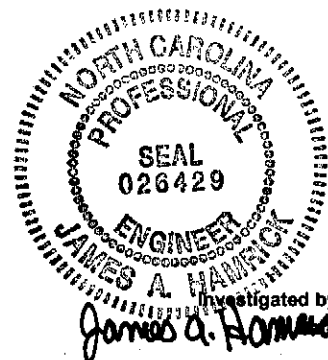
Shoulder width (existing bridge) 3 FEET

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section

Crash History and
Safety Considerations 2 crashes in 10 year study. One involved an animal

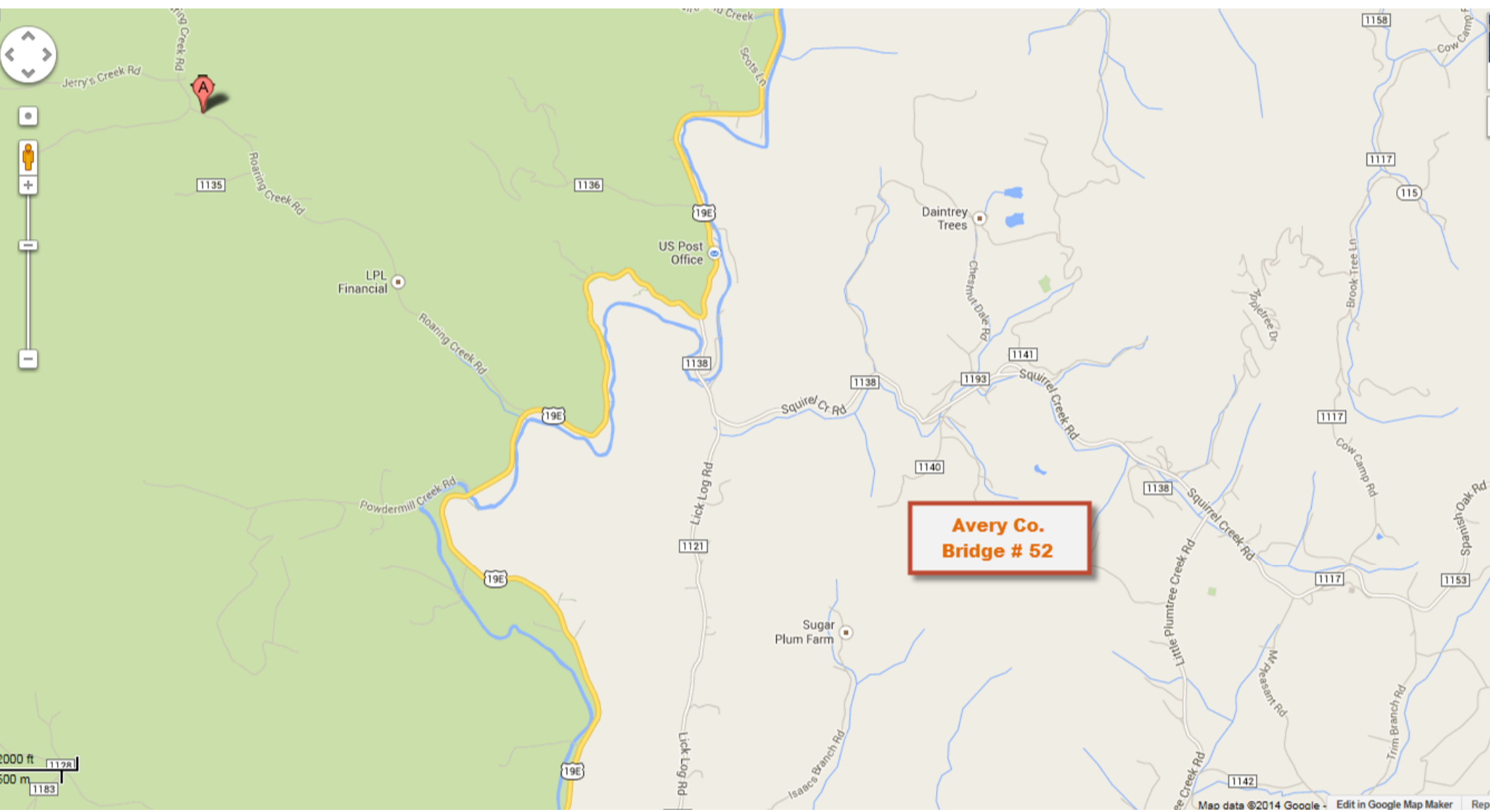
Comments

Reasonable Bridge Speed 25 mph MPH



Investigated by: J. A. Hamrick, P. E.
7/2/2014

Reviewed by: _____



Bridge # 52 Avery





SB SR 1132



SB SR 1132



NB SR 1132



NB SR 1132

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

Study Criteria Summary

County: AVERY **City:** All and Rural
Date: 05/01/2004 to 04/30/2014 **Study:** MW41000029663
Location: Bridge # 52 over Martin Creek on SR 1152 (Roaring Creek Road), 500 feet on each side.

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	101832069	2.000	09/15/2006 22:30	ANIMAL	\$ 1000	0	0	0	0	1	5	1		0		
Unit 1 : 1 Alchl/Drgs: 0 Speed: 0 MPH Dir: N Veh Mnvr/Ped Actn: 4 Obj Strk: 17																
2	102899513	2.000	06/16/2010 20:17	FIXED OBJECT	\$ 1500	0	0	0	0	1	2	1	1	0	13	1
Unit 1 : 2 Alchl/Drgs: 7 Speed: 55 MPH Dir: S Veh Mnvr/Ped Actn: 4 Obj Strk: 34																

**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	2	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	0	0.00
Total Injury Crashes	0	0.00
Property Damage Only Crashes	2	100.00
Night Crashes	1	50.00
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	2	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	2	100.00

Vehicle Exposure Statistics

Annual ADT = 1000

Total Length = 0.194 (Miles)

0.312 (Kilometers)

Total Vehicle Exposure = 0.71 (MVMT)

1.14 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	282.29	175.41
Fatal Crash Rate	0.00	0.00
Non Fatal Crash Rate	0.00	0.00
Night Crash Rate	141.15	87.70
Wet Crash Rate	0.00	0.00
EPDO Rate	282.29	175.41

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Miscellaneous Statistics

Severity Index =	1.00
EPDO Crash Index =	2.00
Estimated Property Damage Total = \$	2500.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANIMAL	1	50.00
FIXED OBJECT	1	50.00

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	0	0.00
Jun	1	50.00
Jul	0	0.00
Aug	0	0.00
Sep	1	50.00
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	1	50.00
Thu	0	0.00
Fri	1	50.00
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	50.00
2100-2159	0	0.00
2200-2259	1	50.00
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	1	0	0	1
Total	2	0	0	2

Object Struck Summary

Object Type	Times Struck	Percent of Total
ANIMAL	1	50.00
UTILITY POLE	1	50.00

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
PASSENGER CAR	1	50.00
PICKUP	1	50.00

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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	1	0	0	1
2011	0	0	0	0
2012	0	0	0	0
2013	0	0	0	0
2014	0	0	0	0
Total	2	0	0	2

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
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