

Spot Safety Project Evaluation

Project Information

Order ID: 41000032450

Project ID: 14-08-202

Location: SR 1846 (Mountain Page Rd) from SR 1840 (Mine Mountain Rd) to SR 1847 (Old Mountain Page Rd)

County: Henderson

City: Near Saluda

Division: 14

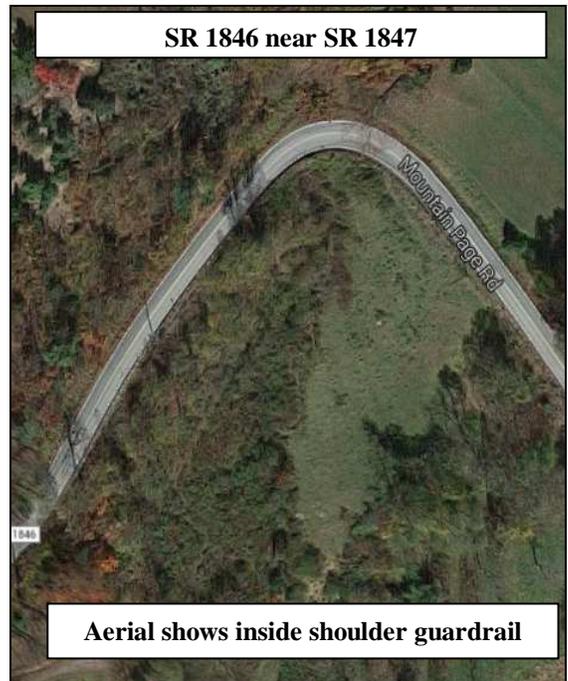
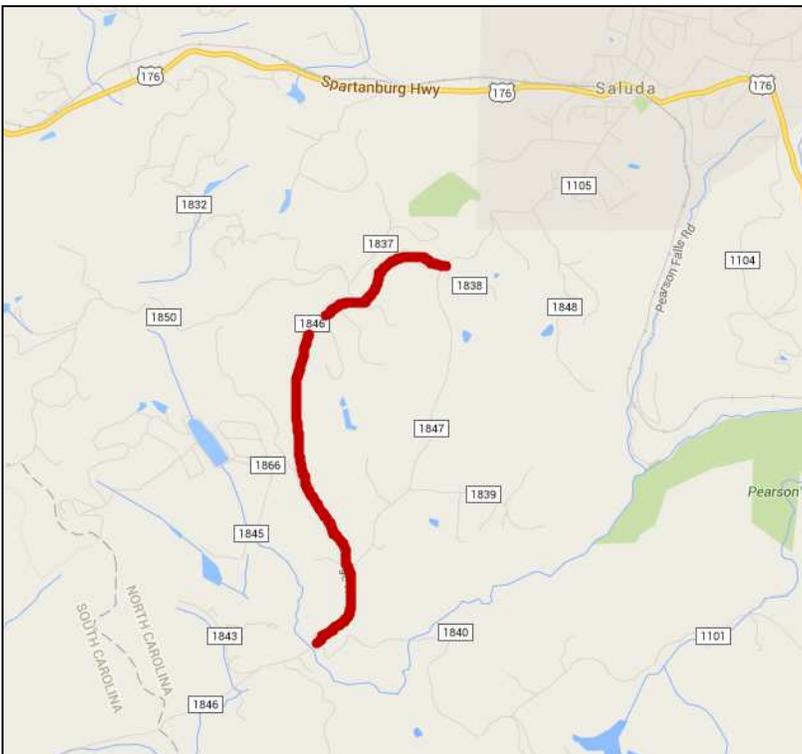
Signal ID: N/A

Countermeasure: Install Shoulder W-Beam Guardrail at various locations

Project Completion: January 27, 2010

Project Cost: \$220,000

Map and Aerial (from Google Maps) – Coordinates 35.227247, -82.364225



Naive Before and After Analysis

- Before Period: September 1, 2004 through October 31, 2009 (5 years, 2 months)
- Const. Period: November 1, 2009 through January 31, 2010
- After Period: February 1, 2010 through March 31, 2015 (5 years, 2 months)
- Analysis Criteria: Treatment data consisted of all crashes along SR 1846 (Mountain Page Road) from 150-feet south of SR 1840 (Mine Mountain Road) to 150-feet north of SR 1847 (Old Mountain Page Road), Milepost 0.732 to 2.818, with a 0-foot y-line.
- Target Crashes: Lane Departure (LD) Crashes along the segment, which includes the following: Fixed Object, Head-On, Ran-Off Roadway (left, right, straight), and Sideswipe (opposite direction).

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	8	2	- 75.0 %
Total Severity Index	11.40	4.70	- 58.8 %
Target Crashes – Lane Departure	8	2	- 75.0 %
LD Target Crash Severity Index	11.40	4.70	- 58.8 %
Shoulder Guardrail Struck	0	0	0.0 %
Volume (2007, 2012) – Both Estimates	1,500	1,300	- 13.3 %

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal injury Crashes	1	0	- 100.0 %
Class A injury Crashes	0	0	0.0 %
Class B injury Crashes	1	0	- 100.0 %
Class C Injury Crashes	0	1	100.0 %
Property Damage Only	6	1	- 83.3 %

<u>Additional Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Night Crashes	5	0	- 100.0 %
Wet Roadway Crashes	2	0	- 100.0 %
Alcohol / Drugs Involvement Crashes	0	0	0.0 %

Overall Summary Results

Total Crashes:	- 75 %	(reduction)
Total Crash Severity:	- 59 %	(reduction)
Target Crashes:	- 75 %	(reduction)
Target Crash Severity:	- 59 %	(reduction)
Volume:	- 13 %	(reduction)

Additional Summary Results

Night Crashes:	- 100 %	(reduction)
Wet Roadway Crashes:	- 100 %	(reduction)

Items for Discussion/Concerns

None – crash frequency and severity were both reduced significantly in the after period. There were zero shoulder guardrail impact crashes in the before or after period along this route. However, one of the after period crashes does indicate shoulder guardrail present on the inside of the curve where the crash occurred.

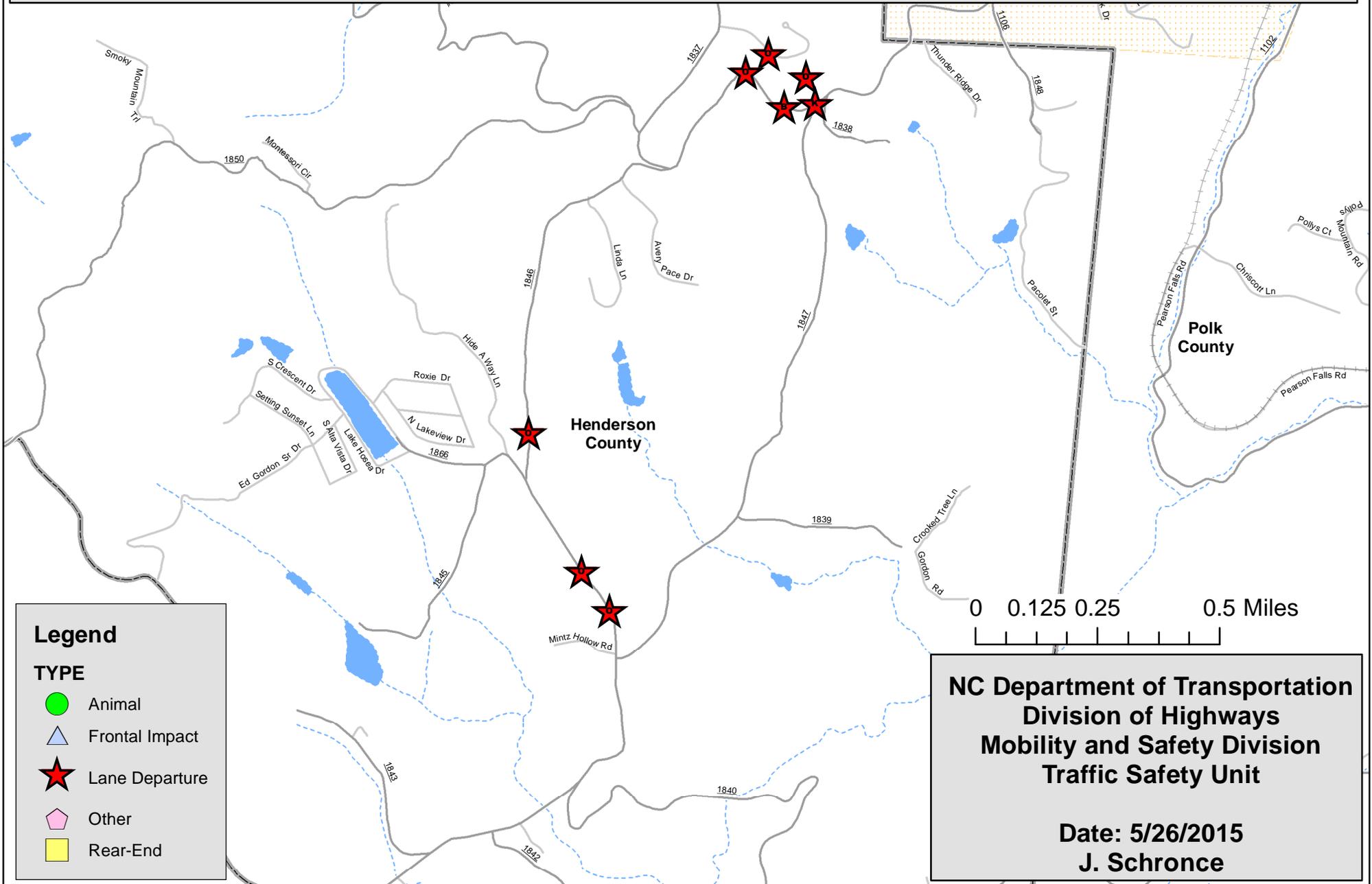
Data Prepared For

The Traffic Safety Unit *of the*
Transportation Mobility and Safety Division *of the*
Division of Highways *of the*
North Carolina Department of Transportation

Data Prepared By

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Work Group/Consultant: NCDOT - Safety Evaluation Group
Date: June 26, 2015

SS# 14-08-202 (Henderson County)
SR 1846 (Mtn Page) from SR 1840 (Mine Mtn) to SR 1847 (Old Mtn Page)
Study Milepost Range 0.732 - 2.818
BEFORE PERIOD - 9/1/2004 to 10/31/2009 (5.16 Yrs)



Legend

TYPE

-  Animal
-  Frontal Impact
-  Lane Departure
-  Other
-  Rear-End

NC Department of Transportation
Division of Highways
Mobility and Safety Division
Traffic Safety Unit

Date: 5/26/2015
J. Schronce

SS# 14-08-202 (Henderson County)
SR 1846 (Mtn Page) from SR 1840 (Mine Mtn) to SR 1847 (Old Mtn Page)
Study Milepost Range 0.732 - 2.818
AFTER PERIOD - 2/1/2010 to 3/31/2015 (5.16 Yrs)

