

# Spot Safety Project Evaluation

## Project Information

Order ID: 41000028744

Project ID: 06-09-204

Location: SR 1437 (Pine Logging Road) from SR 1429 (Slippery Log Road) to SR 1436 (Georgia Pacific Road)

County: Columbus

City: Near Whiteville

Division: 6

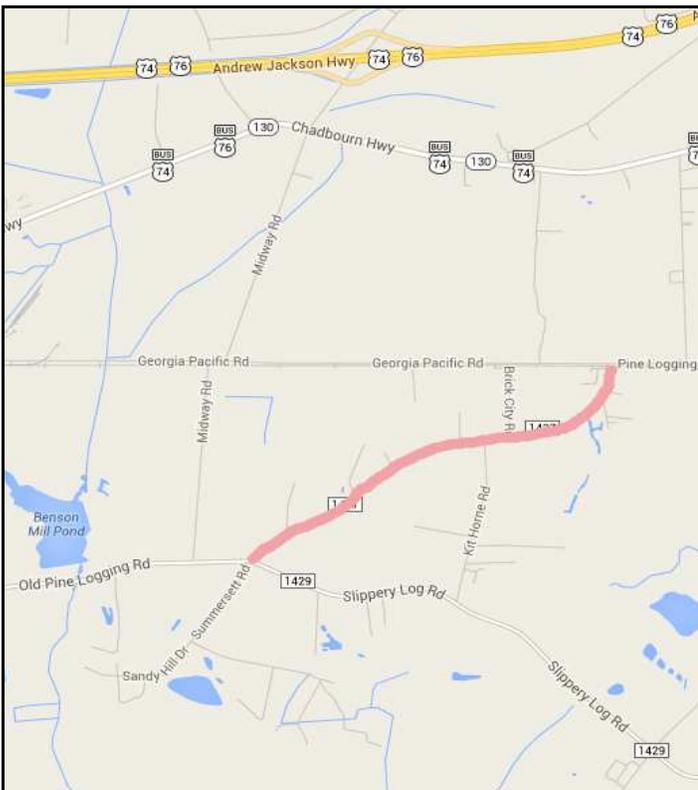
Signal ID: N/A

Countermeasure: 2-Foot Paved Shoulders on Both Sides of Roadway

Project Completion: January 24, 2014

Project Cost: \$205,000

## Map and Aerial (from Google Maps – Coordinates: 34.311628, -78.765332)



**Naive Before and After Analysis**

Before Period: November 1, 2007 through October 31, 2010 (3 years)

Const. Period: November 1, 2010 through January 31, 2011

After Period: February 1, 2011 through January 31, 2014 (3 years)

Analysis Criteria: Treatment data consisted of all crashes within the subject milepost range on SR 1437 (Pine Logging Road) with a 0-foot y-line. All crashes from 150-feet north/east of SR 1429 (Slippery Log Road) to 150-feet south/west of SR 1436 (Georgia Pacific Road) were included (MP 0.028 – 1.562).

Target Crashes: Lane Departure Target Crashes – Ran-Off Road (Left, Right, Straight), Sideswipe (Opposite Direction), Fixed Object, and Head-On

<b><u>Treatment Information</u></b>	<b>Before</b>	<b>After</b>	<b>Percent Reduction (-) Percent Increase (+)</b>
Total Crashes	11	5	- 54.5 %
Total Severity Index	9.91	2.48	- 75.0 %
Target Crashes – Lane Departure	4	1	- 75.0 %
Target Crash Severity Index	21.80	8.40	- 61.5 %
Volume (2009, 2012)	780	930	19.2 %

<b><u>Injury Crash Summary</u></b>	<b>Before</b>	<b>After</b>	<b>Percent Reduction (-) Percent Increase (+)</b>
Fatal injury Crashes	1	0	- 100.0 %
Class A injury Crashes	0	0	N/A
Class B injury Crashes	2	0	- 100.0 %
Class C Injury Crashes	1	1	0.0 %
Property Damage Only	7	4	- 42.8 %

<b><u>Additional Information</u></b>	<b>Before</b>	<b>After</b>	<b>Percent Reduction (-) Percent Increase (+)</b>
Night Crashes	5	4	- 20.0 %
Wet Roadway Crashes	1	0	- 100.0 %
Alcohol / Drug Involvement	0	0	N/A
Animal Crashes	4	3	- 25.0 %

### **Overall Summary Results**

Total Crashes:	- 55 %	(reduction)
Total Crash Severity:	- 75 %	(reduction)
Target Crashes:	- 75 %	(reduction)
Target Crash Severity:	- 62 %	(reduction)
Volume:	19 %	(increase)

### **Additional Summary Results**

Night Crashes:	- 20 %	(reduction)
Wet Roadway Crashes:	- 100 %	(reduction)

### **Items for Discussion/Concerns**

Note from the Project Closeout Sheet in the Background Information File:

“The entire section was widened and resurfaced, with most of the section marked for 2-foot paved shoulders. However, there are portions where the markings were placed closer to the edge of the pavement, which resulted in less than 2-foot paved shoulders. This may have been due to the Division’s standards for placing markings, which are based on pavement width.

The Regional and Division Staff have discussed the issues and will communicate on future projects to prevent similar miscommunication. The differences in the pavement shoulder width should not affect the overall positive effect of the widening project.”

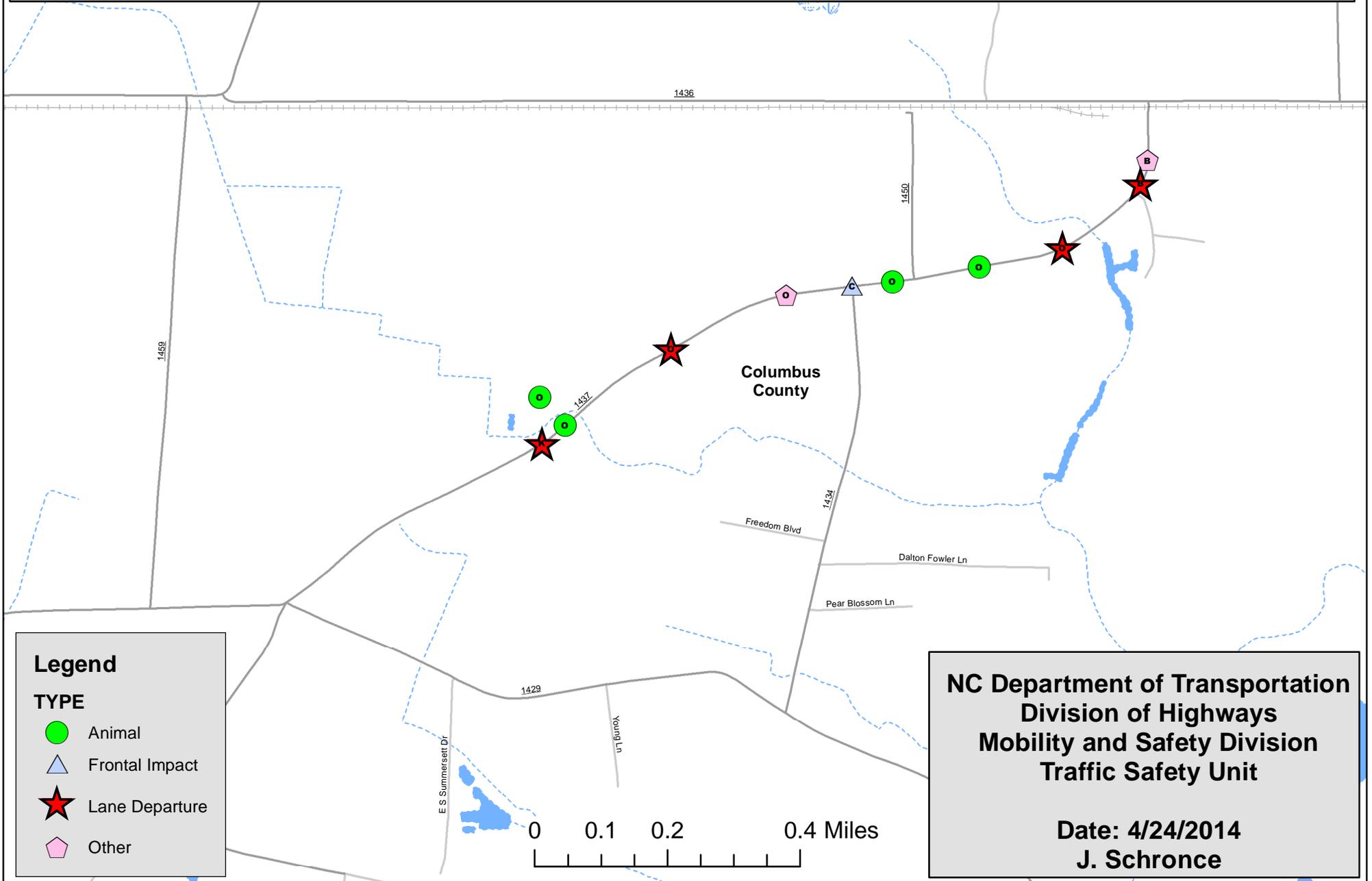
### **Data Prepared For**

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**

Principal Investigator: Jason B. Schronce, EI  
Work Group/Consultant: NCDOT - Safety Evaluation Group  
Date: April 29, 2014

**SS# 06-09-204 (Columbus County)**  
**SR 1437 (Pine Loggin Rd) From SR 1429 to SR 1436**  
**Study Milepost Range 0.028 - 1.562**  
**BEFORE PERIOD - 11/1/2007 to 10/31/2010 (3.0 Yrs)**



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

**Date: 4/24/2014**  
**J. Schronce**

**SS# 06-09-204 (Columbus County)**  
**SR 1437 (Pine Loggin Rd) From SR 1429 to SR 1436**  
**Study Milepost Range 0.028 - 1.562**  
**AFTER PERIOD - 2/1/2011 to 1/31/2014 (3.0 Yrs)**

