

Spot Safety Project Evaluation

Project Information

Order ID: 41000030260

Project ID: 13-07-209

Location: Horizontal Curve on SR 1240 (Parker Padgett Rd) 0.5 mile east of SR 1234 (Oakdale Rd)

County: McDowell

City: East of Old Fort

Division: 13

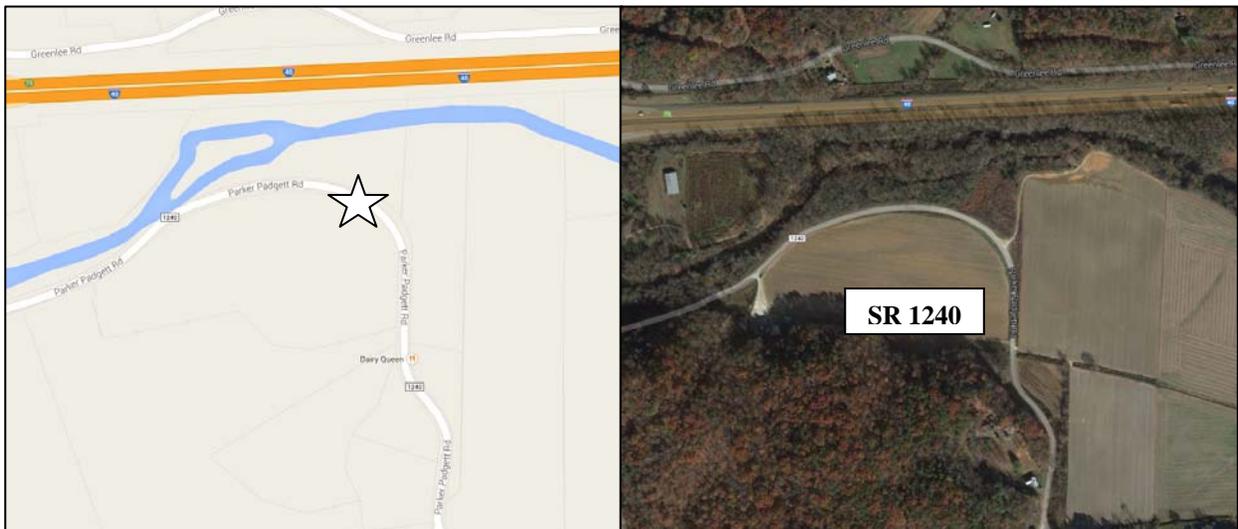
Signal ID: N/A

Countermeasure: Realign sharp curve

Project Completion: March 24, 2010

Project Cost: \$100,000

Map and Aerial (from Google Maps – Coordinates are 35.637523, -82.136322)



Naive Before and After Analysis

- Before Period: November 1, 2005 through January 31, 2010 (4 years 3 month)
- Const. Period: February 1, 2010 through April 30, 2010
- After Period: May 1, 2010 through July 31, 2014 (4 years 3 months)
- Analysis Criteria: Treatment data consisted of all crashes on SR 1240 (Parker Padget Rd) within 500-feet west of the middle of the curve to 500 feet east of the middle of the curve, Milepost 0.601 to 0.791, with a zero-foot y-line.
- Target Crashes: Lane Departure Crashes – Run-Off Road (Left, Right, Straight), Fixed Object, Head-On, and Sideswipe (Opposite Direction). Sidestreet intersection run through crashes are not considered as lane Departure Target Crashes.

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	5	0	- 100.0 %
Total Severity Index	20.60	0.00	- 100.0 %
Target Crashes – Lane Departure	5	0	- 100.0 %
Target Crash Severity Index	20.60	0.00	- 100.0 %
Volume (2008, 2012)	660	750	+ 13.6 %

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal injury Crashes	1	0	- 100.0 %
Class A injury Crashes	0	0	N/A
Class B injury Crashes	0	0	N/A
Class C Injury Crashes	3	0	- 100.0 %
Property Damage Only	1	0	- 100.0 %

<u>Additional Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Night Crashes	4	0	- 100.0 %
Wet Roadway Crashes	3	0	- 100.0 %
Alcohol/Drugs Involvement Crashes	0	0	N/A
Animal Crashes	0	0	N/A
Total Crash Rate (100MVM)	2567.44	0.00	- 100.0 %
Fatal Crash Rate (100MVM)	513.49	0.00	- 100.0 %

Overall Summary Results

Total Crashes:	- 100 %	(reduction)
Total Crash Severity:	- 100 %	(reduction)
Target Crashes:	- 100 %	(reduction)
Target Crash Severity:	- 100 %	(reduction)
Volume:	+ 14 %	(increase)

Additional Summary Results

Total Crash Rate (100MVM):	- 100 %	(reduction)
Fatal Crash Rate (100MVM):	- 100 %	(reduction)

Items for Discussion/Concerns

The study section experienced a 100 % reduction in total crashes (5 to 0 crashes).

The target crashes (Lane Departure Crashes) experienced a 100 % reduction (5 to 0 crashes).

The section experienced a 100 % reduction in fatal crashes (1 to 0 crashes).

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: Andrew Covington, EI
Work Group/Consultant: AECOM
Date: October 3, 2014

SS# 13-07-209
 Order# 41000030260
 McDowell County
 BEFORE Period
 11/1/2005 - 1/31/2010
 4.25 Years

LEGEND							
	MOVING VEHICLE		ANGLE		9 MPH OR LESS		A ANIMAL
	PARKED VEHICLE		TURNING		10 MPH TO 19		P PEDESTRIAN
	MOVABLE OBJECT		BACKING		20 MPH TO 29		B BICYCLE
	HEAD ON		SIDESWIPE		30 MPH TO 39		T TRUCK
	REAR END		INJURY		40 MPH TO 49		• DRIVER AT FAULT
	RAN OFF ROAD		FATALITY		50 MPH TO 59		D DRY
	DAYLIGHT CRASH		TO AND UP		60 MPH TO 69		W WET
	NIGHT CRASH		SPEED UNKNOWN		70 AND UP		I ICY OR SNOW
					OTHER		O OTHER

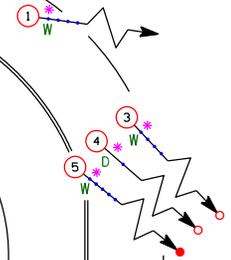
BEGIN STUDY
MP-0.601

SR 1240
Parker Padgett Rd
55 MPH

ADT (YEAR)
660 (2008)

END STUDY
MP-0.791

ROLLOVER



Lone Departure
Target Crashes

AECOM

Prepared For:
 N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 TRANSPORTATION MOBILITY and
 SAFETY DIVISION

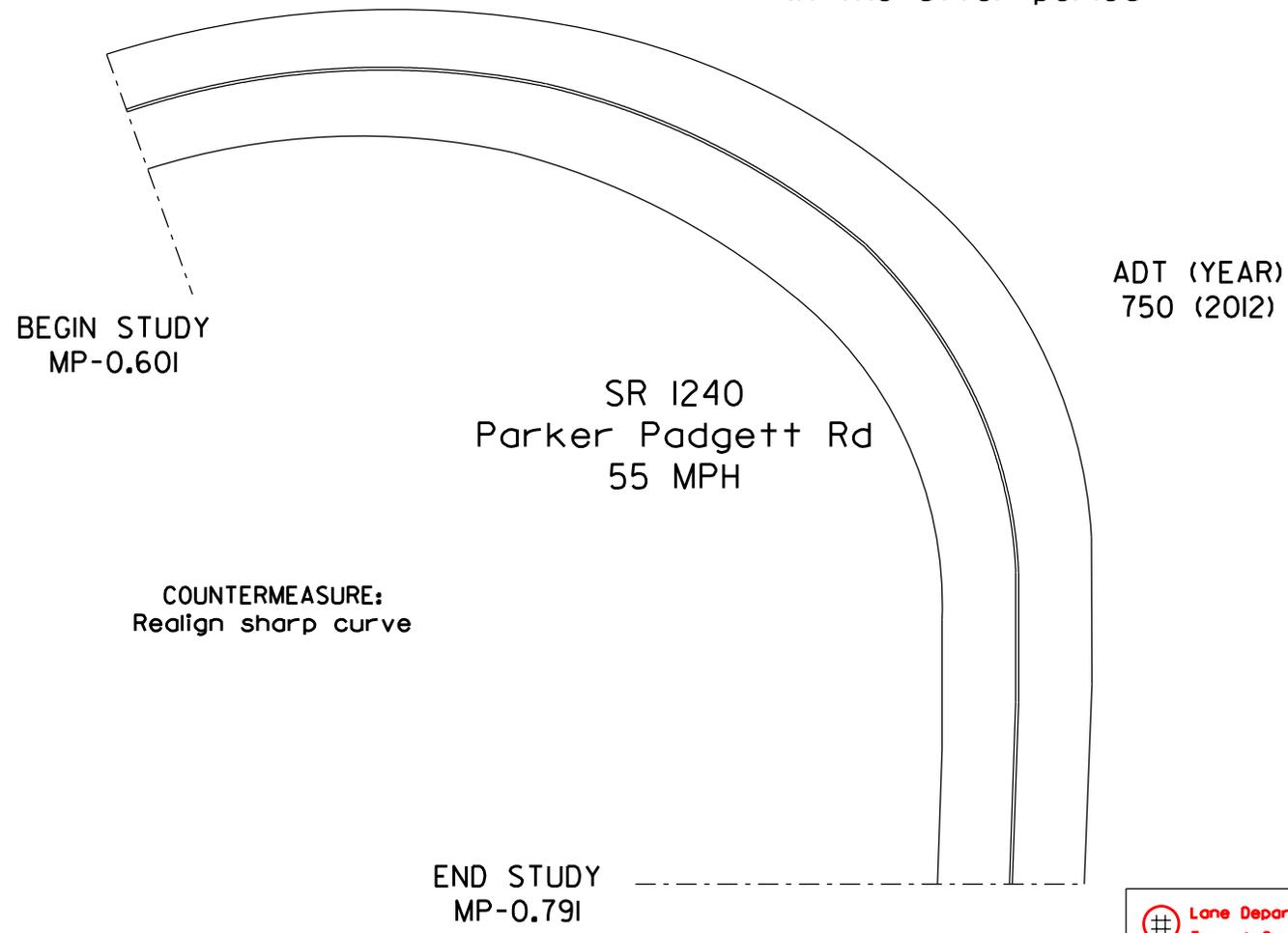
TRAFFIC SAFETY UNIT

Date: 10-3-2014	Prepared By: Andrew Covington, E.I.
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SS# 13-07-209
 Order# 41000030260
 McDowell County
 AFTER Period
 5/1/2010 - 7/31/2014
 4.25 Years

LEGEND							
	MOVING VEHICLE		ANGLE		9 MPH OR LESS	A	ANIMAL
	PARKED VEHICLE		TURNING		10 MPH TO 19	P	PEDESTRIAN
	PARKING VEHICLE		BACKING		20 MPH TO 29	B	BICYCLE
	MOVABLE OBJECT		SIDESWIPE		30 MPH TO 39	T	TRAIN
	HEAD ON		INJURY		40 MPH TO 49	*	DRIVER AT FAULT
	REAR END		FATALITY		50 MPH TO 59	D	DRY
	RAN OFF ROAD		WET		60 MPH TO 69	I	ICY OR SNOWY
	DAYLIGHT CRASH		SPEED UNKNOWN		70 AND UP	O	OTHER
	NIGHT CRASH						

Note:
 There are no crashes
 in the after period



AECOM

Prepared For:
 N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 TRANSPORTATION MOBILITY and SAFETY DIVISION

TRAFFIC SAFETY UNIT

Date: 10-3-2014 Prepared By: Andrew Covington, E.I.