

Spot Safety Project Evaluation

Project Information

Order ID: 41000033969

Project ID: 06-10-10039

Location: Intersection of SR 1006 (Old Stage Rd) at SR 1505 (Pearidge Rd/Piney Grove Rd)

County: Harnett

City: Angier

Division: 6

Signal ID: N/A

Countermeasures: Convert to All-Way Stop with dual mounted Stop signs at each approach, and installed Stop Bars for each approach.

Project Completion: July 12, 2011

Project Cost: \$9,500.00

Map and Aerial (from Google Maps, Coordinates are 35.502720, -78.691507)



Naive Before and After Analysis

Before Period: July 1, 2007 through April 30, 2011 (3 years, 10 months)

Const. Period: May 1, 2011 through July 31, 2011

After Period: August 1, 2011 through May 31, 2015 (3 years, 10 months)

Analysis Criteria: Treatment data consisted of all crashes within 150 feet of the subject intersection for the SR 1006/Old Stage Road and SR 1505/Pearidge Road/Piney Grove Road approaches.

Target Crashes: Frontal Impact Crashes (left-turn, same roadway; left-turn, different roadway; right-turn, same roadway; right-turn, different roadway; head-on; and angle crashes) in the intersection.

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	17	2	- 88.2 %
Total Severity Index	5.35	4.70	- 12.2 %
Target Crashes	16	2	- 87.5 %
Target Crash Severity Index	5.63	4.70	- 16.5 %
Volume (2009, 2013)	4,000	3,500	- 12.5 %

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal injury Crashes	0	0	N/A
Class A injury Crashes	0	0	N/A
Class B injury Crashes	1	0	- 100.0 %
Class C Injury Crashes	9	1	- 88.9 %
Property Damage Only	7	1	- 85.7 %

<u>Additional Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Angle (Target)	15	2	- 86.7 %
Left Turn, Same Roadway (Target)	1	0	- 100.0 %
Run Off Road	1	0	- 100.0 %

Overall Summary Results

Total Crashes:	- 88 %	(reduction)
Total Crash Severity:	- 12 %	(reduction)
Target Crashes:	- 88 %	(reduction)
Target Crash Severity:	- 17 %	(reduction)
Volume:	- 13 %	(reduction)

Additional Summary Results

Angle (Target):	- 88 %	(reduction)
LTSR (Target):	- 100 %	(reduction)
Run Off Road:	- 100 %	(reduction)

Items for Discussion/Concerns

Angle crashes decreased from 15 crashes in the before period to 2 crashes in the after period.

Left Turn, Same Roadway crashes decreased from 1 crash in the before period to 0 crashes in the after period.

Of the 15 Angle crashes in the before period, 8 of them occurred between SR 1006 and southeast SR 1505 vehicles. In the after period, there were 0 angle crashes occurring between SR 1006 and southeast SR 1505 vehicles.

Of the 15 Angle crashes in the before period, 7 of them occurred between SR 1006 and northwest SR 1505 vehicles. In the after period, there were 2 angle crashes occurring between SR 1006 and northwest SR 1505 vehicles.

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: Rosi Hennein

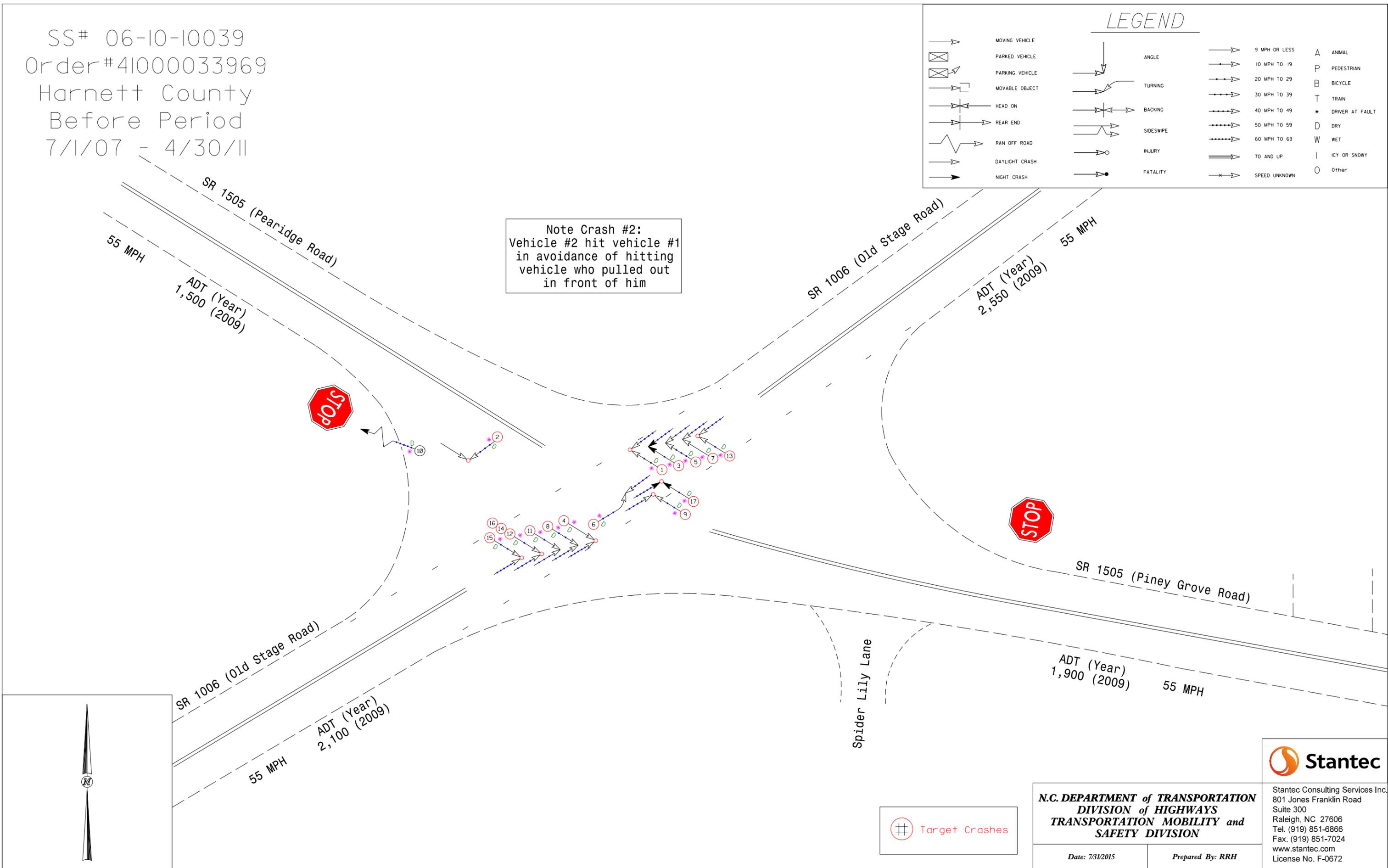
Work Group/Consultant: Stantec Consulting Services Inc

Date: July 31, 2015

SS# 06-10-10039
 Order# 41000033969
 Harnett County
 Before Period
 7/1/07 - 4/30/11

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

Note Crash #2:
 Vehicle #2 hit vehicle #1
 in avoidance of hitting
 vehicle who pulled out
 in front of him



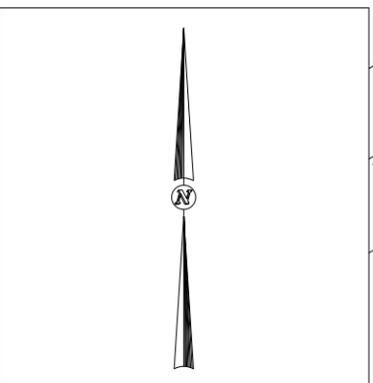
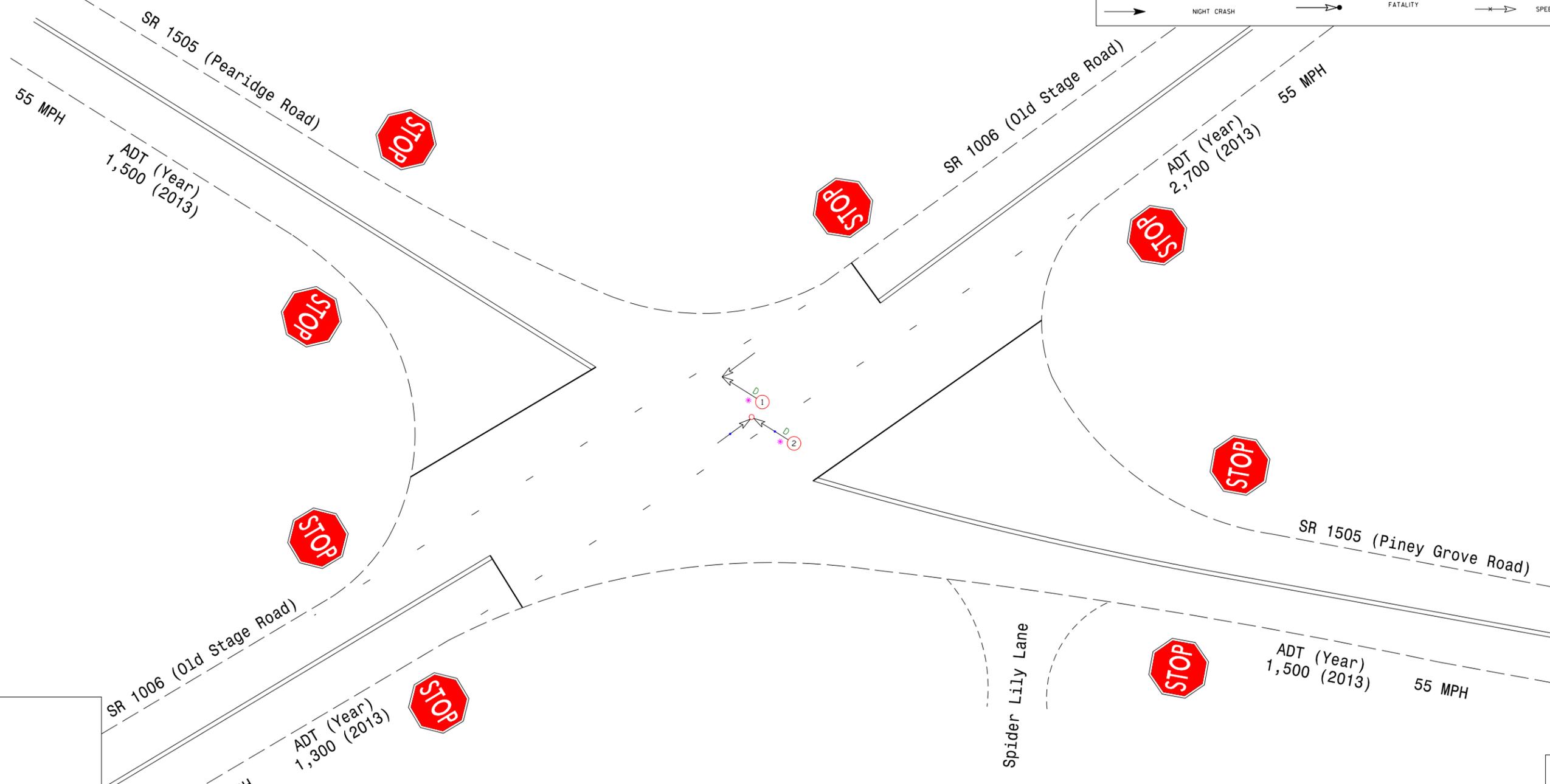
N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
TRANSPORTATION MOBILITY and SAFETY DIVISION

Date: 7/31/2015 Prepared By: RRH

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SS# 06-10-10039
 Order# 41000033969
 Harnett County
 After Period
 8/1/11 - 5/31/15

LEGEND			
	MOVING VEHICLE		ANGLE
	PARKED VEHICLE		TURNING
	PARKING VEHICLE		BACKING
	MOVABLE OBJECT		SIDESWIPE
	HEAD ON		INJURY
	REAR END		FATALITY
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			O Other



Target Crashes

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Date: 7/31/2015	Prepared By: RRH	