

Task 2 – Develop Safety Projects

Purpose

Apply decision process to develop specific safety projects for each candidate site selected for safety investment.

Description

County Highway 26 Segment Project Form (right), provides information on:

- Roadway Data –Average Daily Traffic (ADT), Length, Lane Width, Shoulder Width/Type
- Crash Data – Total & Road Departure Crashes, Density, Rate
- Deficiencies – Risk Ranking
- Strategies Considered
- Selected Strategy
- Project Cost

The table below provides regional summaries of the projects identified using the systemic process.

Region	2' Shoulder Pave+Rumble Strips+Safety Edge (mi)	Shoulder Rumble Strips (mi)	Edge Line Rumble Strips (mi)	6 inch Edgelines (mi)	Ground In Wet-Reflective Markings (mi)	Total Project Value
Region 1	180	373	673	50	636	\$16,106,107
Region 2	151	147	560	210	180	\$10,095,868
Region 3	153	91	332	46	306	\$10,196,428
Region 4	106	139	758	200	85	\$8,158,210
Total	591	749	2323	505	1207	\$44,556,613

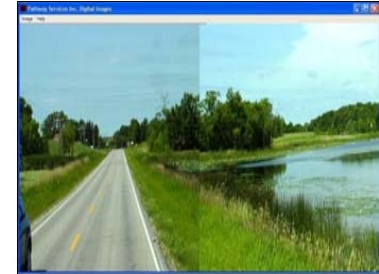
County Highway 26 from State Highway 23 to County Highway 15

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Roadway Data

Type: County Highway
Number: 6

Start: State Highway 23
End: County Highway 15
City/Rural: Rural
County:
District: 4
ADT: 888
Facility Type: 2-Lane
Lane Width: 12
Shoulder Width: 2
Shoulder Type: Gravel
Length (miles): 8.0
Rumble Installed: none



Crash Data

2005-2009 MnCMAT Crash Data 5 years

	Total	Road Dept	K+A
Crashes	15	11	1
Density (per mile per year)	0.38	0.28	0.03
Rate (per MVM)	1.62	1.19	0.11

Ranking Criteria

	Value	Critical	Risk Ranking
ADT Range	634	600 to 1200	★
RD Density	0.28	0.08	★
Access Density	8.88	4.30	★
Curve Critical Radius Density	0.75	0.59	★
Edge Risk	2	2 or 3	★★★

Short List of Strategies Considered

Description	Type	Cost per mi	Mileage	Cost	Notes - Noise sensitive
2' Shoulder Pave+RS+Safety Edge	Proactive	\$40,000	0.0	\$0	area adjacent to Big Lake.
Rumble Strip	Proactive	\$3,000	0.0	\$0	
Rumble StripE	Proactive	\$3,500	6.0	\$21,000	
6" Edge Lines	Proactive	\$650	0.0	\$0	
Ground In Wet-Reflective Markings	Proactive	\$8,500	2.0	\$17,000	

Implementation Cost

Federal Funds	\$34,200
Local Match (10% of Total project cost)	\$3,800
Total Project Cost	\$38,000

Rank: 1
Segment ID: 26.01
Date: 2/12/2011