

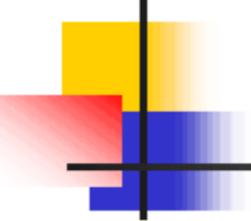


10 Year SHOPP Plan

Collision Reduction Program

Jesse Bhullar, Office Chief
Traffic Safety Program

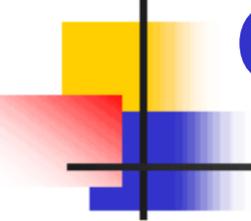
August 28, 2002



Performance Goal

Collision Reduction Program

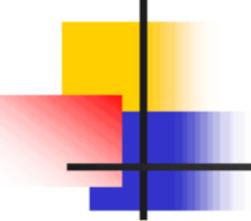
- Reduce Fatal and Injury Collisions by 12 % by 2012
- Reduce miles of non-standard median barrier to zero by 2010



Collision Reduction Program

Three program elements

- 010 - Safety Improvements
- 015 - Run-off Road Improvements
- 020 - Upgrade Median Barriers



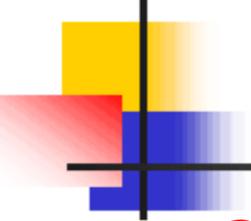
010 - Safety Improvements

Department's top priority

"Improve safety where collision history indicates a pattern susceptible to roadway correction"

- **Safety Projects with Safety Index >200**
- **Install new Median Barriers**
- **Safety on 2 and 3 lane highways**

Projects are programmed after meeting safety criteria and PID are approved



010 - Safety Improvements

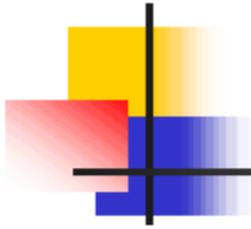
Safety Projects with Safety Index >200

“Improve high collision concentration locations”

Spot improvements are justified on the basis of actual collision experience at the location. A Safety Index (SI) is calculated.

$$SI = \frac{\text{Accident cost savings}}{\text{capital improvements cost}}$$

All improvements with SI greater than 200 are programmed



010 - Safety Improvements

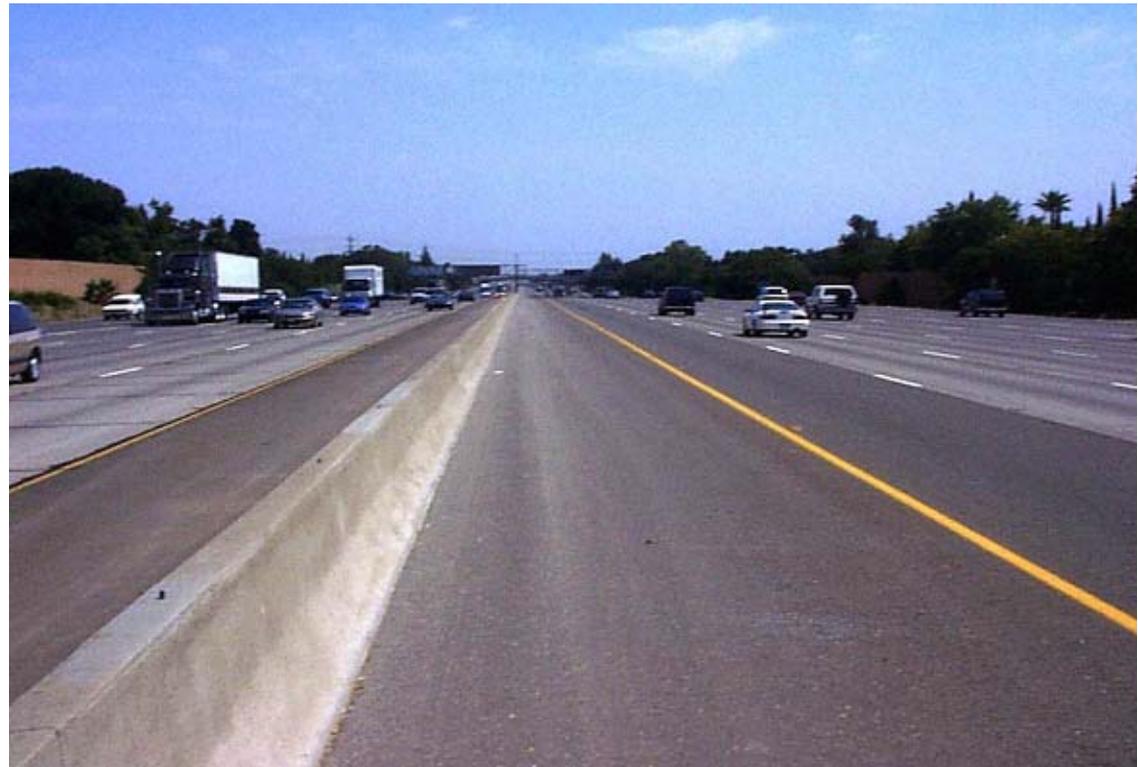
Install new Median Barriers Program "Prevent cross median collisions"

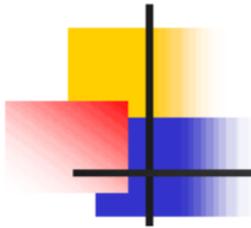
Based on;

- Warrants
- Collision history
- Traffic Volumes
- Median width

Type;

- Concrete
- Thrie Beam





010 - Safety Improvements

Install new Median Barriers Program "Prevent cross median collisions"

Based on;

- Warrants
- Collision history
- Traffic Volumes
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Type;

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010 - Safety Improvements

Safety on 2 & 3 lane highways Program "Reduce head-on collisions"

Based on;

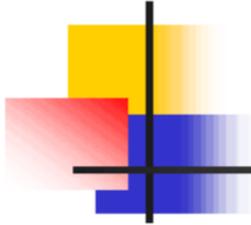
- Warrants
- Collision history

Counter Measures;

- Barrier striping
- Centerline buffer zones
- Raised profile thermoplastic traffic stripe



015 - Run-off Road Improvements



“Reduce severity of run off road collisions”

Goal is to;

- Keep vehicles on the road
- Reduce severity for run off road vehicles

34% of all fatal collisions are run off road



015 - Run-off Road Improvements



“Reduce severity of run off road collisions”

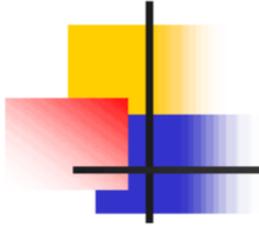
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015 - Run-off Road Improvements



“Reduce severity of run off road collisions”

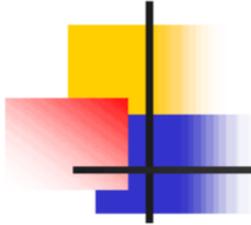
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015 - Run-off Road Improvements



“Reduce severity of run off road collisions”

Goal is to;

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34% of all fatal collisions are run off road



020 - Upgrade Median Barriers

“Reduce exposure of highway workers to traffic”

Goal is to reduce miles of non-standard median barrier to zero by 2010

Upgrade needs :

1. 40 miles of cable barrier
2. 140 miles of double metal beam



020 - Upgrade Median Barriers

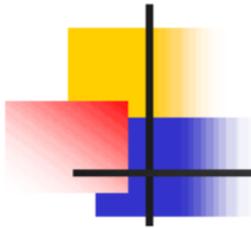
“Reduce exposure of highway workers to traffic”

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10 Year Funding Request

Funding Collision Reduction Program

Program Element	10-yr Plan		2002 SHOPP	
	(annual average)		(annual average)	
\$ shown in millions				
010 - Safety Improvement	\$1,000	(\$100)	\$379	(\$95)
015 - Run-Off Road Improvements	\$750	(\$75)	\$61	(\$15)
020 - Upgrade Median Barrier	\$175	(\$18)	\$45	(\$11)
Total:	\$1,925	(\$193)	\$485	(\$121)