







Scenic

❖Rural

- Historically rich
- Relaxing





Mission

Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability

The Problem

Collision History

Solutions

A more forgiving roadway

Impacts and Benefits

❖What's Next

Collaboration with Caltrans and the public





The Problem

Collision History 2010-2013

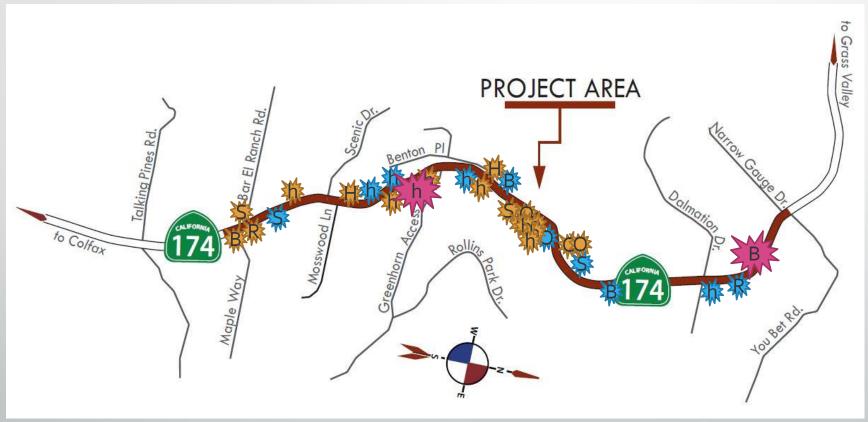
This segment of SR 174 is experiencing <u>a pattern of run off road collisions</u> where drivers are losing control and leaving the roadway, where they strike a fixed object such as a tree or embankment. - Caltrans District 3, Approved Project Report, September 6, 2016

Property Damage Only
Injury
Fatality

h - Hit Object - 14 B - Broadside - 4 O - Overturn - 4 S - Sideswipe - 4

H - Head On - 2

R - Rear End - 2





The Problem

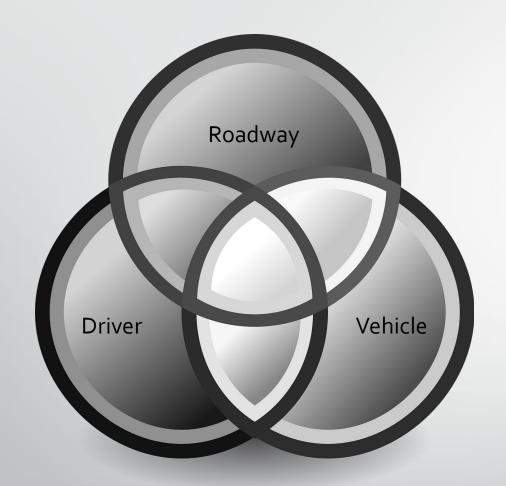
Collision History 2010-2013

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	SR 174	Statewide Average	
Total Collision Rate	2.02	1.22	1.7 times Statewide
			Average
Fatal Collision Rate	0.135	0.024	5.6 times Statewide
			Average
Fatal + Injury	1.35	0.56	2.4 times Statewide
Collision Rate			Average



The Problem Collision History



Caltrans can only control one factor of a collision, the roadway.

This project provides proven counter measures to reduce the severity and the numbers of collisions.



The Problem Collision History

Caltrans is dedicated to making all of our roads and highways safer.

Per 23 U.S. Code § 148, every state is required to have a Highway Safety Improvement Program.

Caltrans constructs
all documented safety projects;
reducing collisions, injuries, and deaths on our roadways.





Solutions

Caltrans Highway Design Manual - Full Standard Solution

- Standard Horizontal Curves
- Standard Vertical Curves
- ❖ 4:1 slopes
- ❖ 55 MPH
- 20' Clear Recovery Zone
 (includes 8' shoulders)
- ❖ 12' lanes
- * 8' shoulders

Highway 174 - Adaptive Solution

- Adaptive Horizontal Curves
- Adaptive Vertical Curves
- ❖ 2:1 slopes
- **❖ 45** MPH
- Up to 20' Clear Recovery Zone (includes 8' shoulders)
- ❖ 12' lanes
- ❖ 8' shoulders

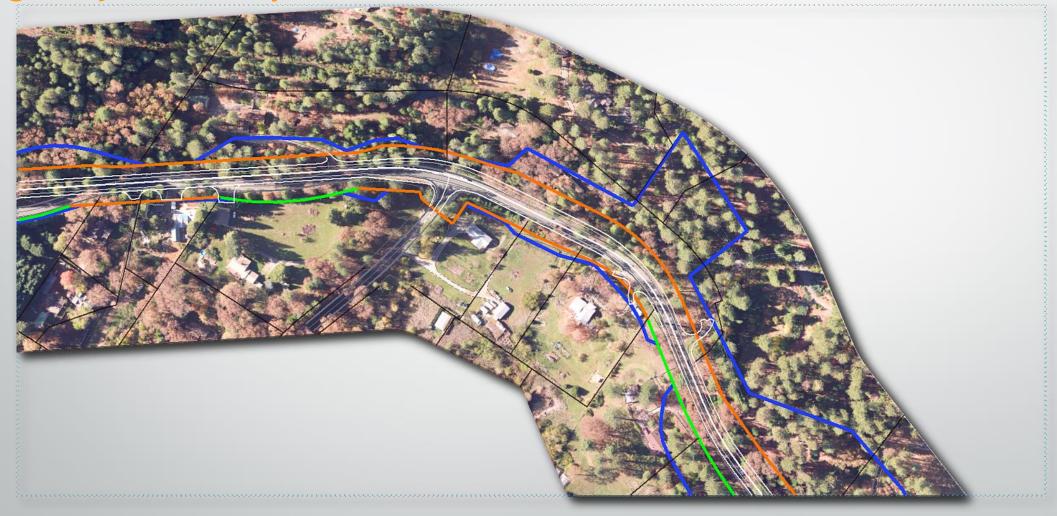


Caltrans Highway Design Manual Solution **Highway 174 Adaptive Solution**





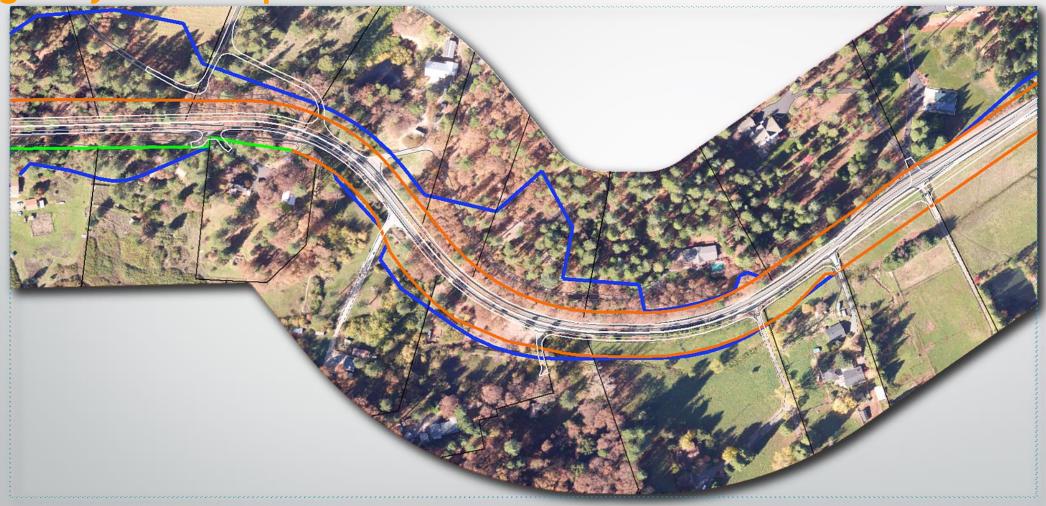
Caltrans Highway Design Manual Solution Highway 174 Adaptive Solution





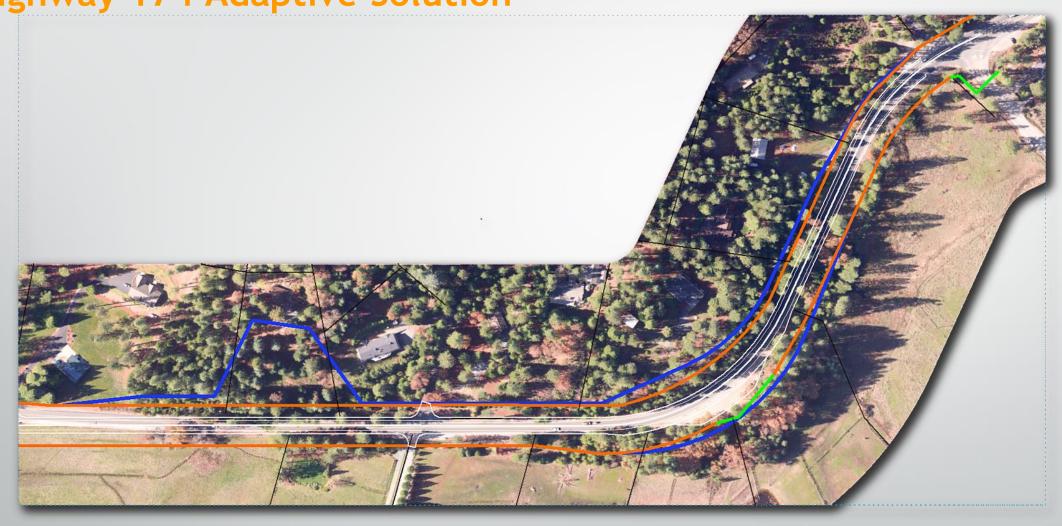
Caltrans Highway Design Manual Solution

Highway 174 Adaptive Solution



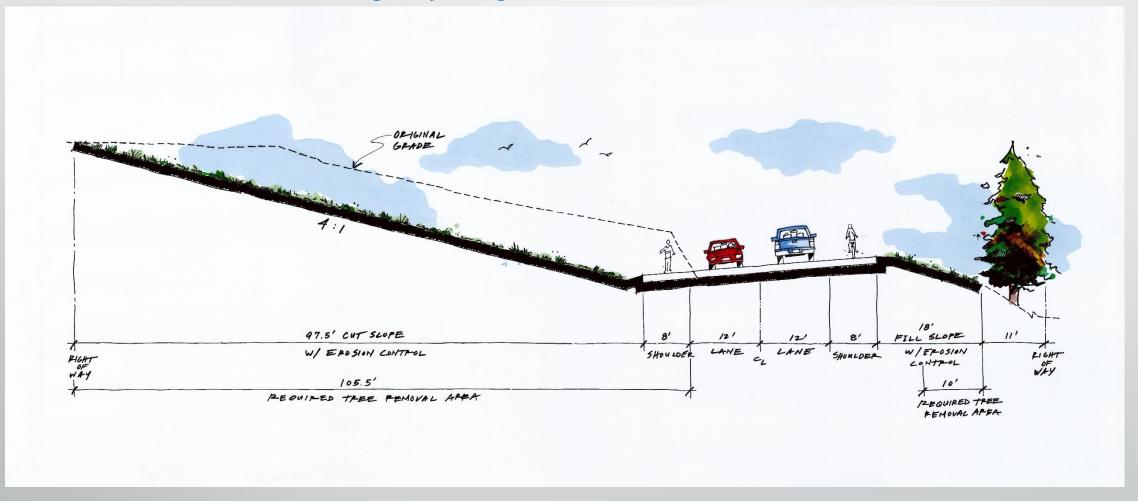


Caltrans Highway Design Manual Solution Highway 174 Adaptive Solution



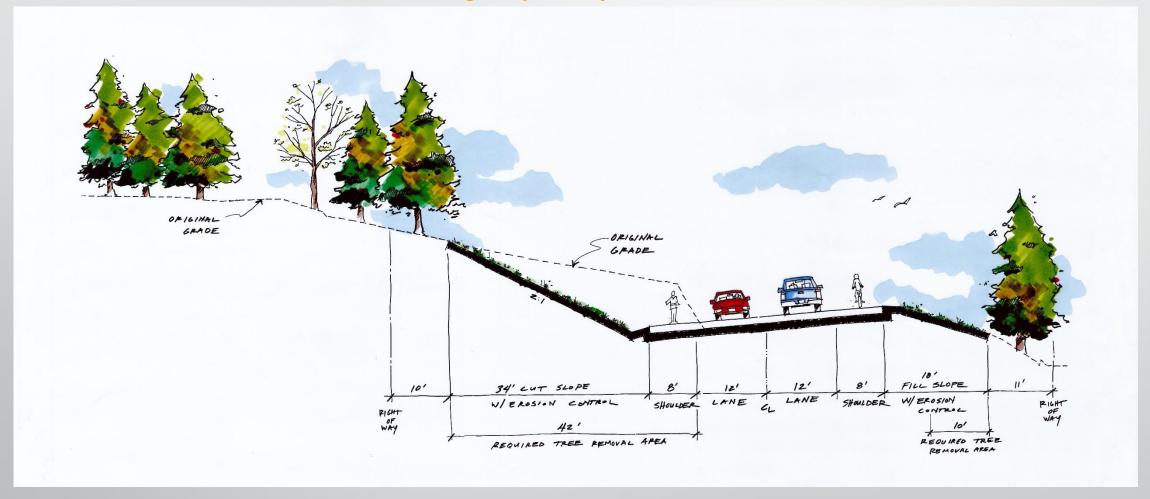


Caltrans Highway Design Manual - Full Standard Solution





174 Highway - Adaptive Solution





PROJECT IMPACTS

- Right of Way acquisition affects 49 parcels
- Approximately 1,700 trees removed
- Utility relocations

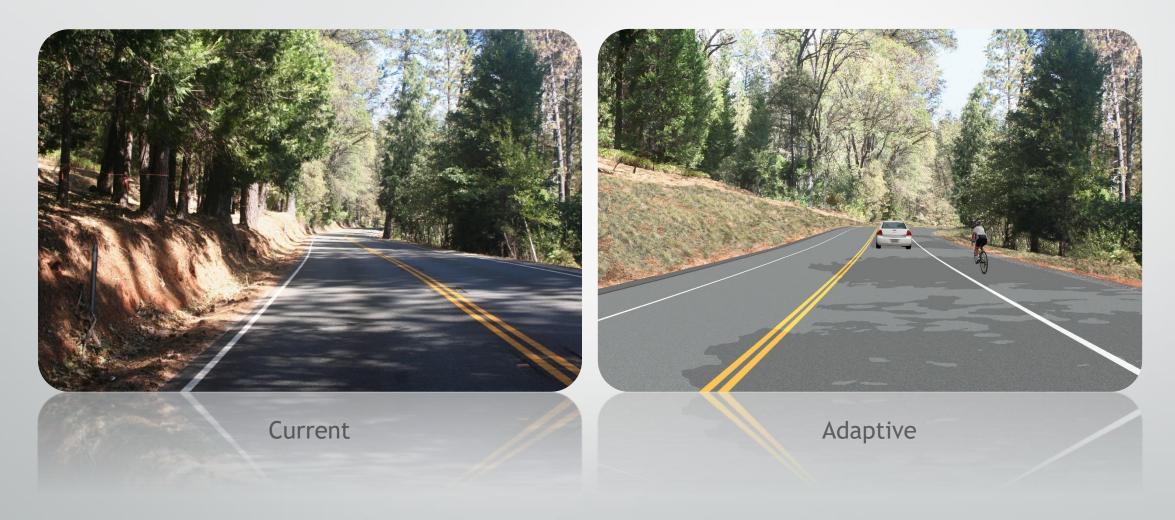


PROJECT BENEFITS - What does 8ft shoulders and a 20ft CRZ get you?

- Pedestrian and bicyclist friendly
- * More room for recovery for an errant vehicle
- * More room off the roadway to avoid drunk drivers, distracted drivers, speeding drivers, etc.
- * More space for emergency vehicles including enforcement vehicles
- * More space for other vehicles including mail carriers, garbage trucks, disabled vehicles and school busses
- Increased visibility around curves
- Fewer collisions, less property damaged
- * More importantly...

SAVED LIVES









What's Next

- Public input during the design
- Begin meeting with affected property owners
- Construction to begin Summer 2019





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