



## FINAL REPORT ON SAFETY EDGE<sub>SM</sub> TECHNOLOGY OPEN HOUSE AND DEMONSTRATION ON OCTOBER 21, 2015

In partnership with FHWA’s Safety Edge Team, the California LTAP Center hosted a Safety Edge<sub>SM</sub> Technology Open House and Demonstration as follows:

<b>Date of Event:</b>	Wednesday, October 21, 2015
<b>Time:</b>	9:00 AM – 2:00 PM
<b>Meeting Site:</b>	Kings County Government Center 1400 W. Lacey Boulevard, Building #1 Hanford, CA 93230
<b>Project Site:</b>	Hanford Armona Road project: 4.1 miles of Rubberized Asphalt Concrete (RAC) overlay at 0.15’ thickness
<b>Safety Edge Used:</b>	Papich Construction Inc. used the Carlson End Gate.
<b>Agenda and Handouts:</b>	See attached agenda and PowerPoint slides.
<b>Total Participants:</b>	There were a total of 17 participants with representation from three counties and four engineering firms (see attached list).
<b>Local Agency:</b>	Kings County Public Works Department
<b>Contractor:</b>	Papich Construction Co., Inc.
<b>FHWA Representatives:</b>	Ken Kochevar Safety Program Manager FHWA California Division Office
<b>Marketing:</b>	A flyer was developed and circulated as follows: <ul style="list-style-type: none"> <li>• Kings County sent an email to their local contacts on 10/9/15.</li> <li>• LTAP sent an email announcement to their mailing list on 10/9/15.</li> <li>• The California Asphalt Pavement Association posted an article in their weekly electronic newsletter on 10/12/15.</li> </ul>

<b>Transportation:</b>	Bus transportation was provided for the participants to/from the meeting room to the project site.
<b>Evaluations:</b>	<p>An electronic survey was emailed to the participants after the demonstration. Four responses were received (see attached).</p> <ul style="list-style-type: none"> <li>• Three respondents had utilized the Safety Edge prior to the demonstration. The respondent who had not used the Safety Edge replied that they would consider using it on an upcoming project.</li> <li>• The four respondents rated the demonstration as ‘Very Good’ or ‘Excellent.’</li> </ul>
<b>Total Cost:</b>	\$3,000
<b>Summary:</b>	<p>There were two noticeable observations from this demonstration.</p> <ol style="list-style-type: none"> <li>1) The paving contractor does not like to use the Safety Edge when the project limits include driveways that intersect the main roadway where the interval of driveways is less than 100’ or so. The screed operator must raise and lower the shoe while moving the end gate out and back in. Until this operation is automated, contractors will not like placing the SE where minor roadways or driveways intersect the main roadway at short intervals.</li> <li>2) Securing a contractor who is willing to work with the contracting agency is very important when there are any variables needed in placing the SE. In this case, the rolling pattern had to be adjusted slightly due to the type of mix. During the first day, the Carlson End Gate agent asked the breakdown roller to stay off the edge a foot or so to give the edge a chance to “setup.” When he did this the SE had a straight uniform edge that measured right around 30 degrees after the second pass. However, the second day there was a new roller operator that would or did not want to listen to anyone and rolled over the edge on the initial breakdown pass. This created an edge that “bulged” out. This is something that would need to be spelled out in the contract specifications or worked out during a test strip before the project starts.</li> </ol>

**Attachments:**

- Flyer
- List of Participants
- Agenda and PowerPoint Slides
- Photos from Demonstration
- Evaluation Survey Results

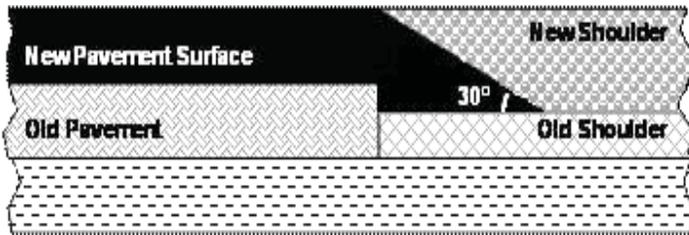
# **ATTACHMENTS**

# SAFETY EDGE<sub>SM</sub> TECHNOLOGY OPEN HOUSE AND DEMONSTRATION

The Kings County Public Works Department, in cooperation with the Federal Highway Administration (FHWA), Caltrans Division of Local Assistance/California LTAP Center, California Asphalt Pavement Association (CalAPA), and Papich Construction Co., Inc., is hosting an open house to demonstrate the constructability of the Safety Edge<sub>SM</sub> for mitigating pavement edge drop-off.

The purpose of the Safety Edge<sub>SM</sub> is to reduce run-off-the-road crashes by facilitating errant driver's safe return to the road by providing a durable, user-friendly, recoverable edge of pavement.

The Safety Edge<sub>SM</sub> is created by a shoe installed on the paver screed to create a 30-degree consolidated wedge.



**Date:** Wednesday, October 21, 2015

**Time:** 9:00 AM – 2:00 PM

9:00 Sign-in and introductions  
9:15 Presentations and Project Overview  
11:15 Board bus and drive to project site  
11:45-12:30 Paving demonstration  
12:30-1:00 Board bus and return to meeting room  
1:00-2:00 Lunch served

**Location:** Kings County Government Center in Hanford  
(1400 W. Lacey Boulevard, Building #1, Administration Multi-Purpose Room)

**Cost:** \$10.00 (includes lunch and transportation to/from the meeting location and the project site on Hanford Armona Road)

**Bring:** For your safety, please bring a hard hat and vest.

**You must register by October 16 by emailing your contact information to [californialtap@cce.csus.edu](mailto:californialtap@cce.csus.edu). Space is limited so register today!**



**SAFETY EDGE OPEN HOUSE AND DEMONSTRATION  
OCTOBER 21, 2015, 9:00 AM-2:00 PM  
KINGS COUNTY**

**LIST OF PARTICIPANTS**

		<b>Title</b>	<b>Organization</b>
1		Design Engineer	Mark Thomas & Company
2		Inspector	NV5
3			Fresno County Public Works
4		Principal Engineer	NCM Engineering Corporation
5		Project Engineer	TRC Solutions
6		Construction Manager	NV5
7		Senior Design Engineer	Mark Thomas & Company
8		Road Maintenance Superintendent	Fresno County Public Works
9		Engineer III	Tulare County Resource Management Agency
10		Director	California LTAP Center
11		Program Manager	California LTAP Center
12		Safety Program Manager	FHWA California Division Office
13		Chief Engineer	Kings County Public Works Department
14		Road Superintendent	Kings County Public Works Department
15		Product Support Manager	Carlson Paving
16		Area Manager	Papich Construction, Inc.
17			Papich Construction, Inc.



# Safety Edge<sup>SM</sup> Technology Open House and Demonstration

Wednesday, October 21, 2015

9:00 AM – 2:00 PM

Kings County Government Center  
1400 W. Lacey Boulevard, Hanford

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**9:00 AM**

**Welcome and Introductions:**

- Dominic Tyburski, P.E., Chief Engineer, Kings County Public Works Department

**9:15 AM**

**Presentations and Project Overview:**

- Ken Kochevar, Safety Program Manager, FHWA California Division Office
- Dominic Tyburski
- David Cruce, Area Manager, Papich Construction, Inc.

**11:15 – 11:30 AM**

**Board Bus and Drive to Project Site**

**11:30 AM – 12:45 PM**

**Paving Demonstration**

**12:45 – 1:00 PM**

**Board Bus and Return to Meeting Room**

**1:00 – 2:00 PM**

**Lunch and Q&A**

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