



RAMP METERING OVERVIEW

WHAT IS RAMP METERING? A SYSTEM THAT CONTROLS THE FLOW OF VEHICLES ONTO THE HIGHWAY USING TRAFFIC SIGNALS ON ENTRANCE RAMP. RAMP METERING SYSTEMS HAVE PROVEN TO SUCCESSFULLY DECREASE TRAFFIC CONGESTION AND IMPROVE DRIVER SAFETY.

Elements of Ramp Metering

- Ramp Metering is activated during high demand: weekday commuter times, weekend recreational travel times, special events, incidents, and construction activity.
- Metering rates are adjusted based on real-time traffic conditions.
- Advancements in technology allow ramp meters along an entire corridor to stand alone or work together as part of corridor strategy to maximize freeway efficiency.

Benefits of Ramp Metering

- Regulates on-ramp traffic to improve merging efficiency and safety
- Reduces duration and intensity of freeway congestion
- Improves overall corridor travel time
- Postpones the on-set of traffic congestion



Current Caltrans District 3 Ramp Metering Initiatives

- Increase and expand hours of operation to manage non-commute congestion
- Install new ramp meters to close gaps in system
- Pilot and evaluate advanced ramp metering strategies
- Upgrade system monitoring and control capabilities

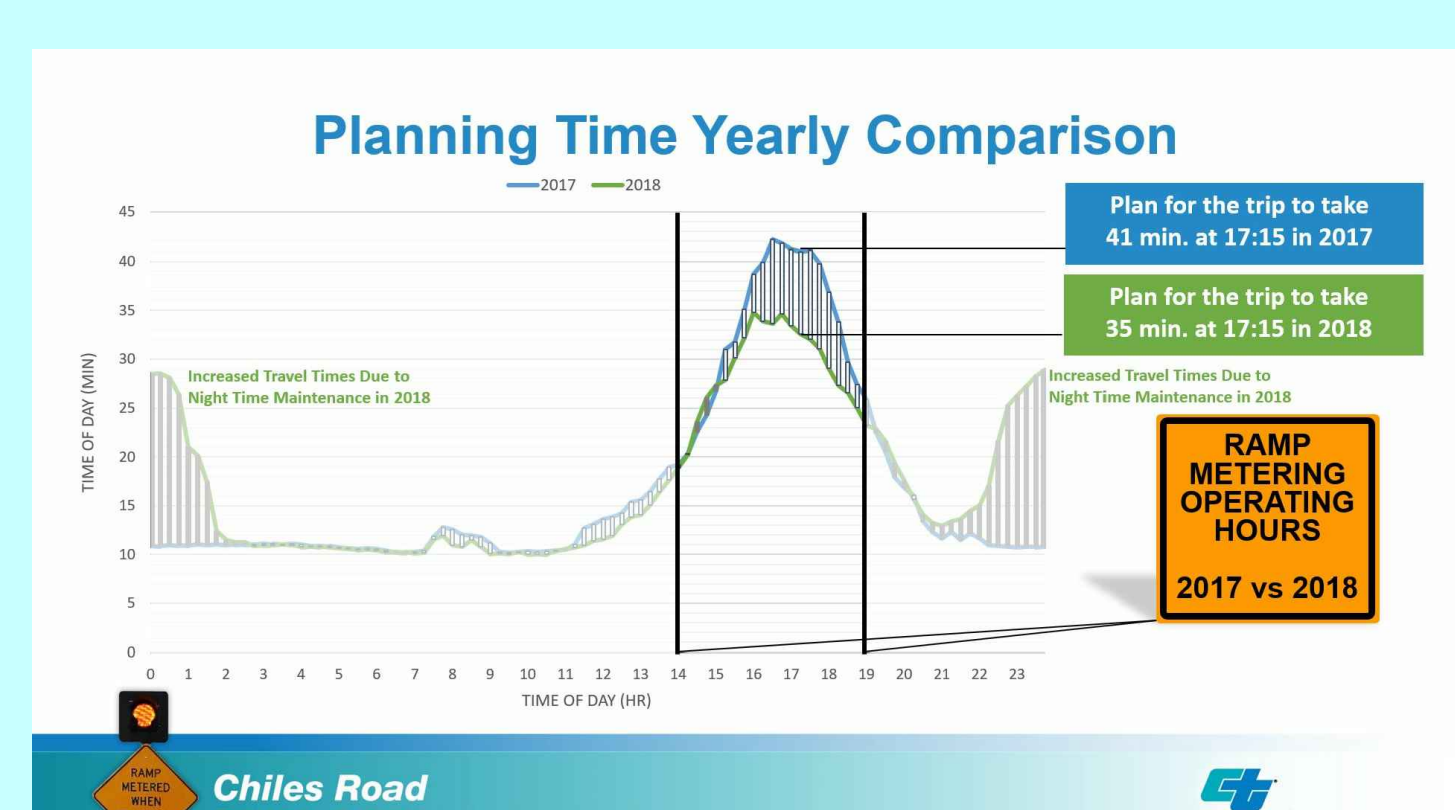
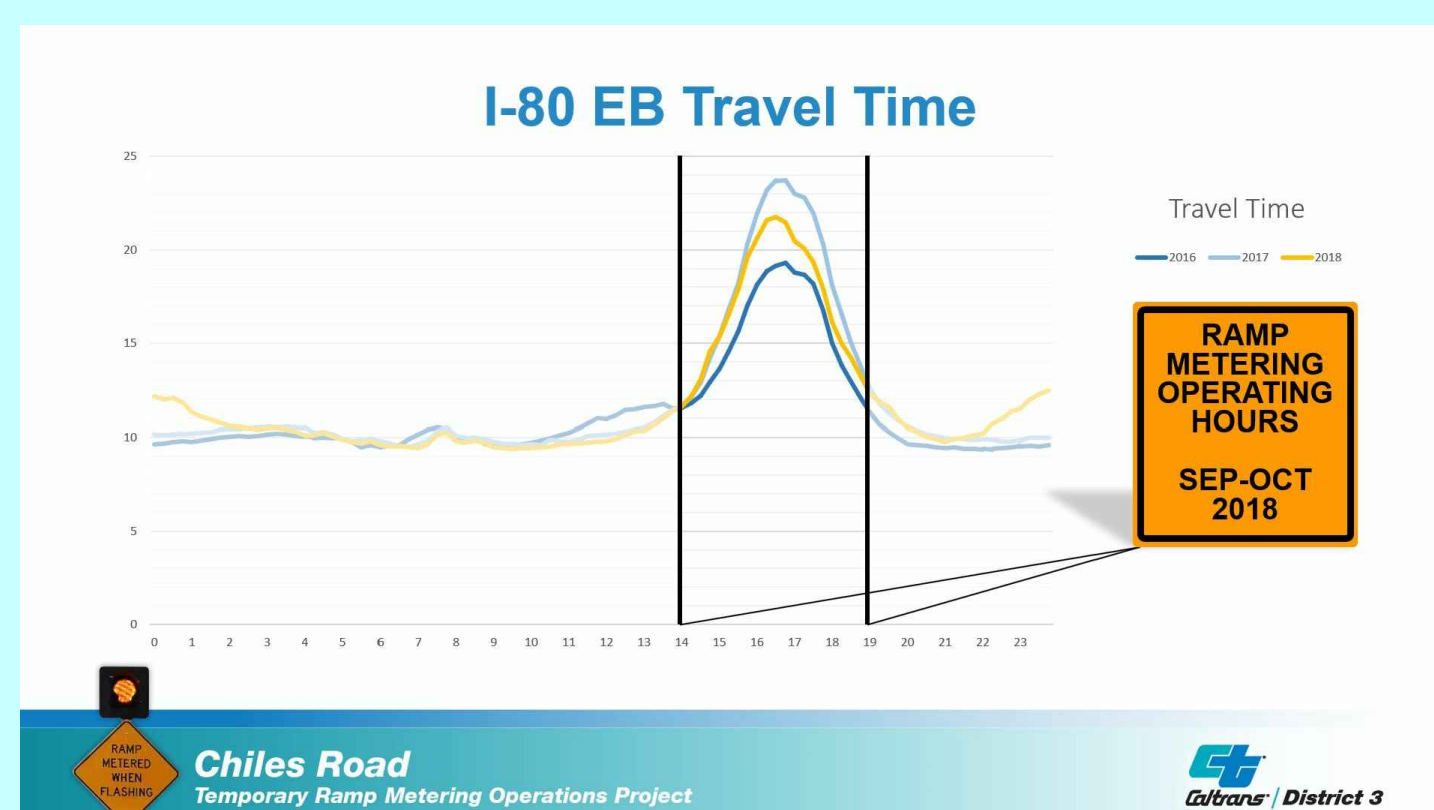
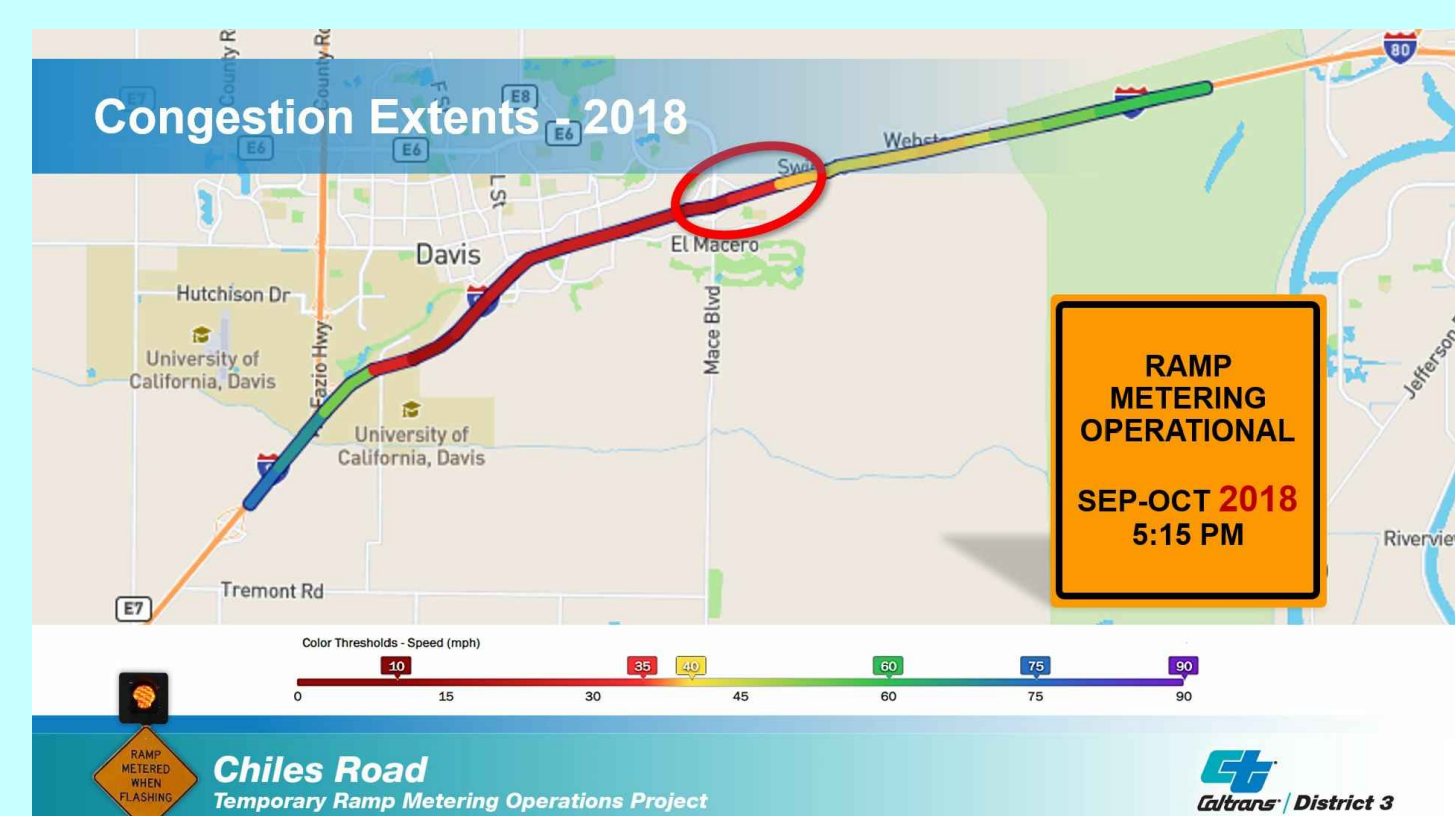
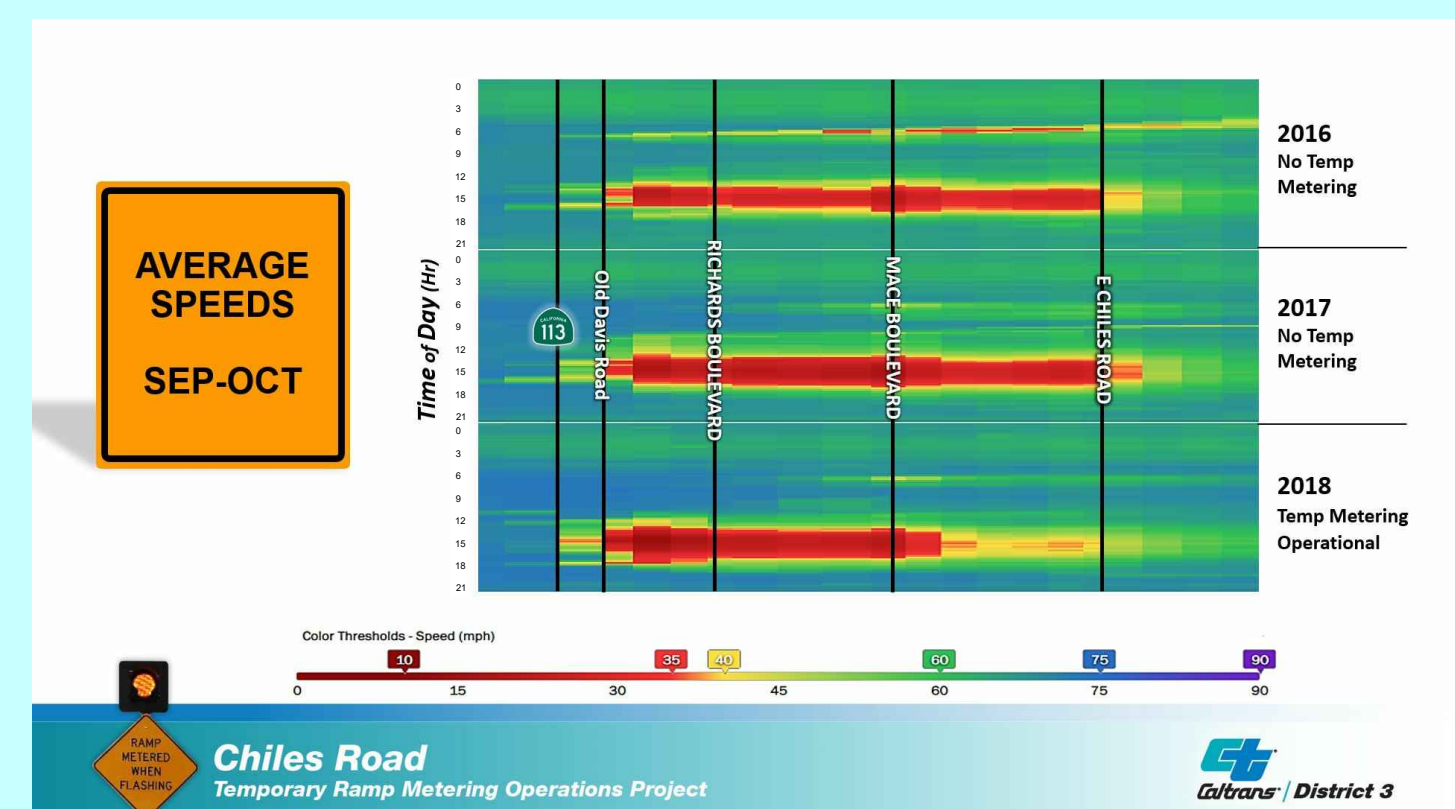
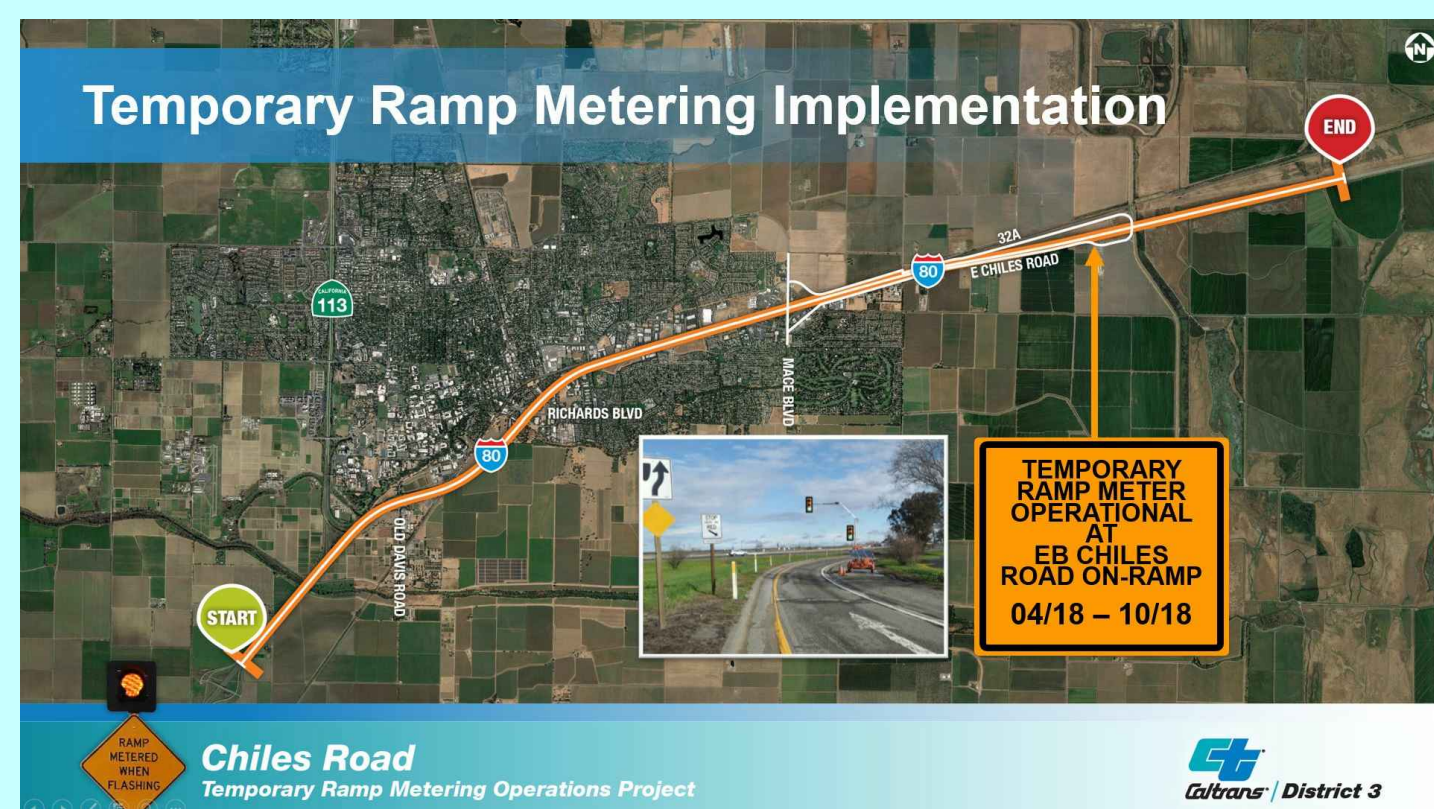
WITHOUT RAMP METERING:

- UNREGULATED PLATOONS OF VEHICLES ENTER THE FREEWAY
- DEMAND EXCEEDS CAPACITY
- MERGING CONFLICTS
- CONGESTION OCCURS

WITH RAMP METERING:

- REGULATED FREEWAY ENTRY
- MORE EFFICIENT TRAFFIC FLOW CONDITIONS
- BREAKING UP PLATOONS OF VEHICLES MAKES MERGING EASIER
- LESS FREEWAY CONGESTION

CHILES ROAD RAMP METER BENEFITS



YOLO 80 RAMP METERING ELEMENTS

RAMP METERS IMPROVEMENTS INCLUDED IN THIS PROJECT:

- EB I-80/SR 113 CONNECTOR
- EB I-80/OLD DAVIS ROAD
- EB I-80/RICHARDS BLVD
- EB I-80/NB MACE BLVD HOV BYPASS LANE
- EB I-80/CHILES ROAD
- EB I-80/MACE BLVD

RAMP METERS IMPROVEMENTS PLANNED IN THE PROJECT AREA:

- WB I-80/RICHARDS BLVD
- WB I-80/WEST CAPITAL AVENUE
- WB I-80/ENTERPRICE BLVD
- WB I-80/JEFFERSON BLVD
- WB I-80/SR 275
- EB I-80/JEFFERSON BLVD
- EB I-80/SOUTH RIVER ROAD