

Town of Moraga

**Canyon Road Bridge Replacement Project
October 10, 2018 Town Council Presentation**



OVERVIEW

- History of Events
- 2018 Bridge Redesign
- Construction Schedule



ACRONYMS AND TERMINOLOGY

FHWA = Federal Highway Administration

Caltrans = California Department of Transportation

HBP = Highway Bridge Program

ER = Emergency Relief Program

PS = Preliminary Studies

PE = Preliminary Engineering

FD = Final Design

ENV = Environmental

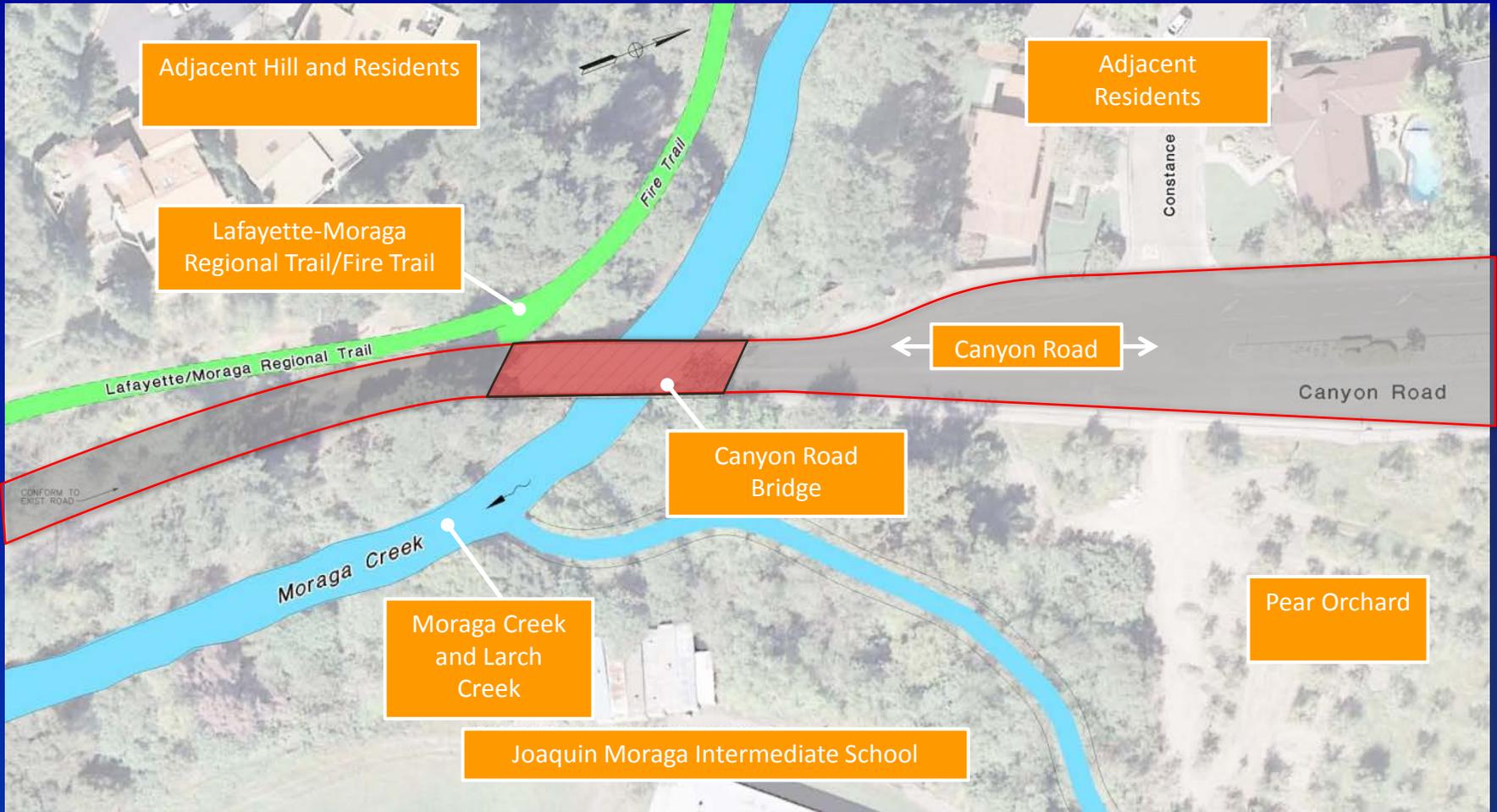
RW = Right-of-Way

APE = Areas of Potential Effects Map

Budget vs. Allocation



LOCATION MAP



2013- GRANT TO REPLACE BRIDGE

- Bi-Annual Caltrans Bridge Inspection Report finds Bridge Qualifies for Replacement
- Town Awarded \$3.2M Highway Bridge Program Grant
- Town Begins Required Preliminary Studies

BRIDGE STRUCTURALLY DEFICIENT



2014 - STUDIES AND OUTREACH

→ Caltrans Authorizes Phases:

- Preliminary Studies
- Environmental
- Right-of-Way
- Preliminary Engineering

→ Community Meeting #1

- Speeding
- Funding
- Environment
- Pedestrians/Cyclists

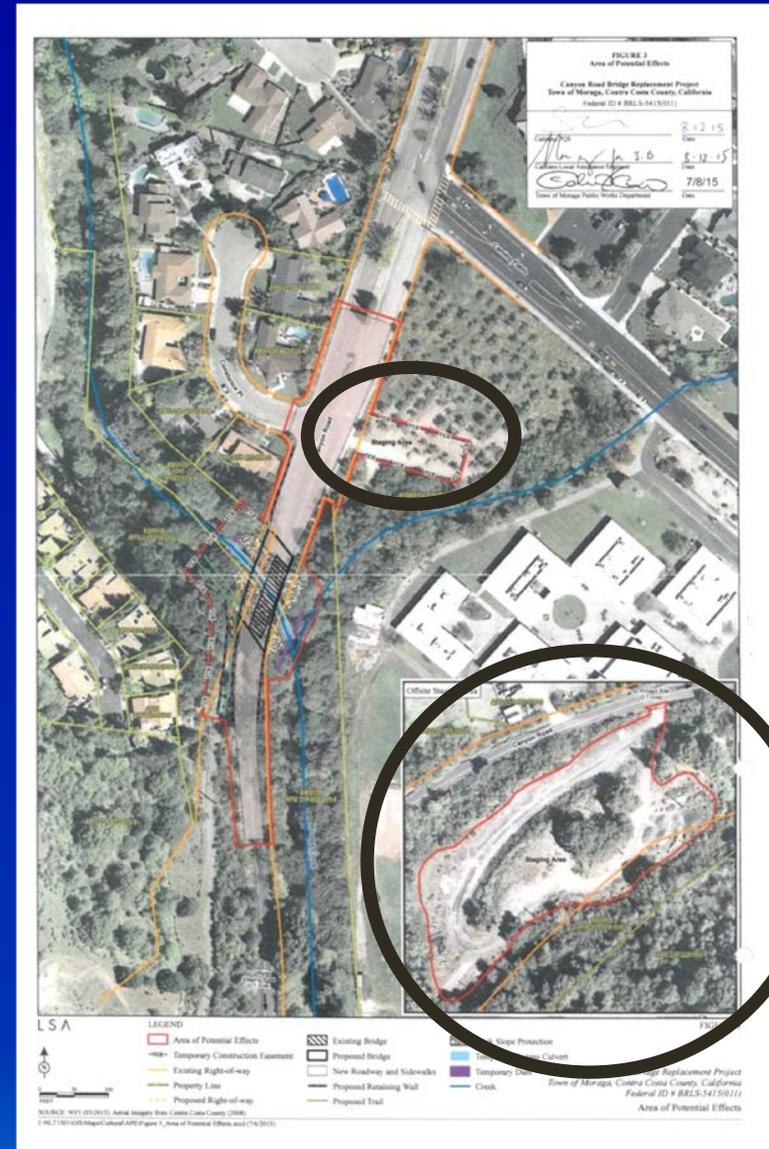


2014 - STUDIES AND OUTREACH

- ➔ Environmental (ENV) Studies
- ➔ Area of Potential Effects Map

Provides For Two Staging Areas

- ❖ Pear Orchard
- ❖ Town Staging Area



2015 - OUTREACH AND PLANNING

→ Community Meeting #2

- Speeding
- Sight Visibility
- Bridge Lighting
- Pedestrian and Cyclist

→ Design Revised to Address Public Concerns

→ Caltrans Approves Revised \$4.2 M Budget



2016 - PROJECT STUDY SUBMITTALS

→ Partial Caltrans Submittals:

- National Environmental Studies
- Noise Technical Memo
- Air Quality Conformance
- Visual Technical Memo
- Traffic Study
- Bridge Type Selection



2017 - LANDSLIDE

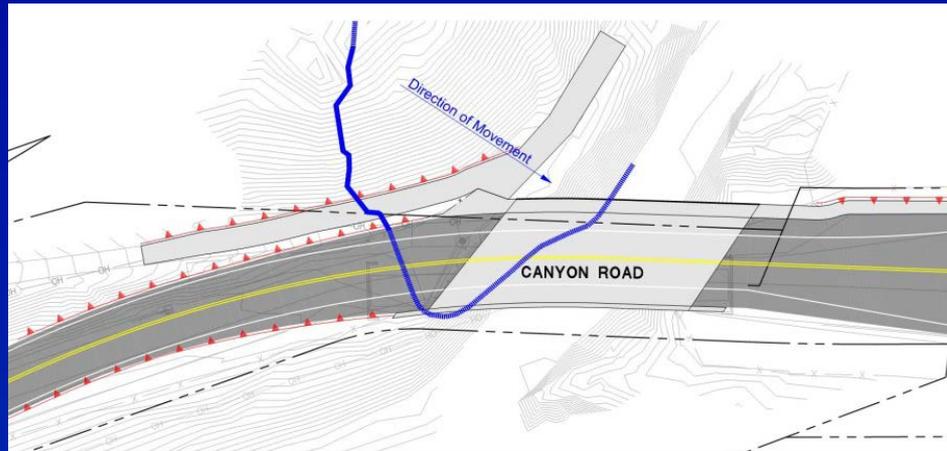
- Bridge Design On Schedule, construction scheduled to start in 2018
- April 17 Town Closes Bridge Damaged by Landslide
- November 22 Temporary One-Lane Signal Controlled Bridge Opened



BRIDGE DESIGN CHANGES

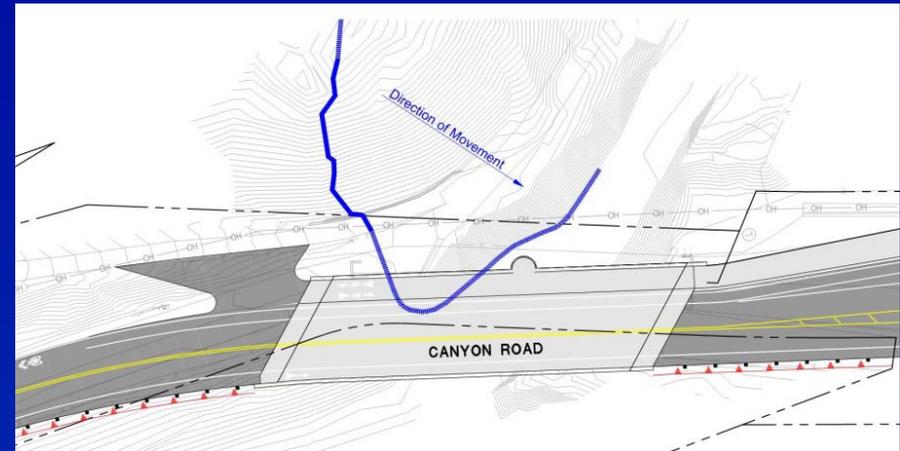
Original Design

110.5' Long x 48.5' Wide



Revised Design

165' Long x 50.2' Wide



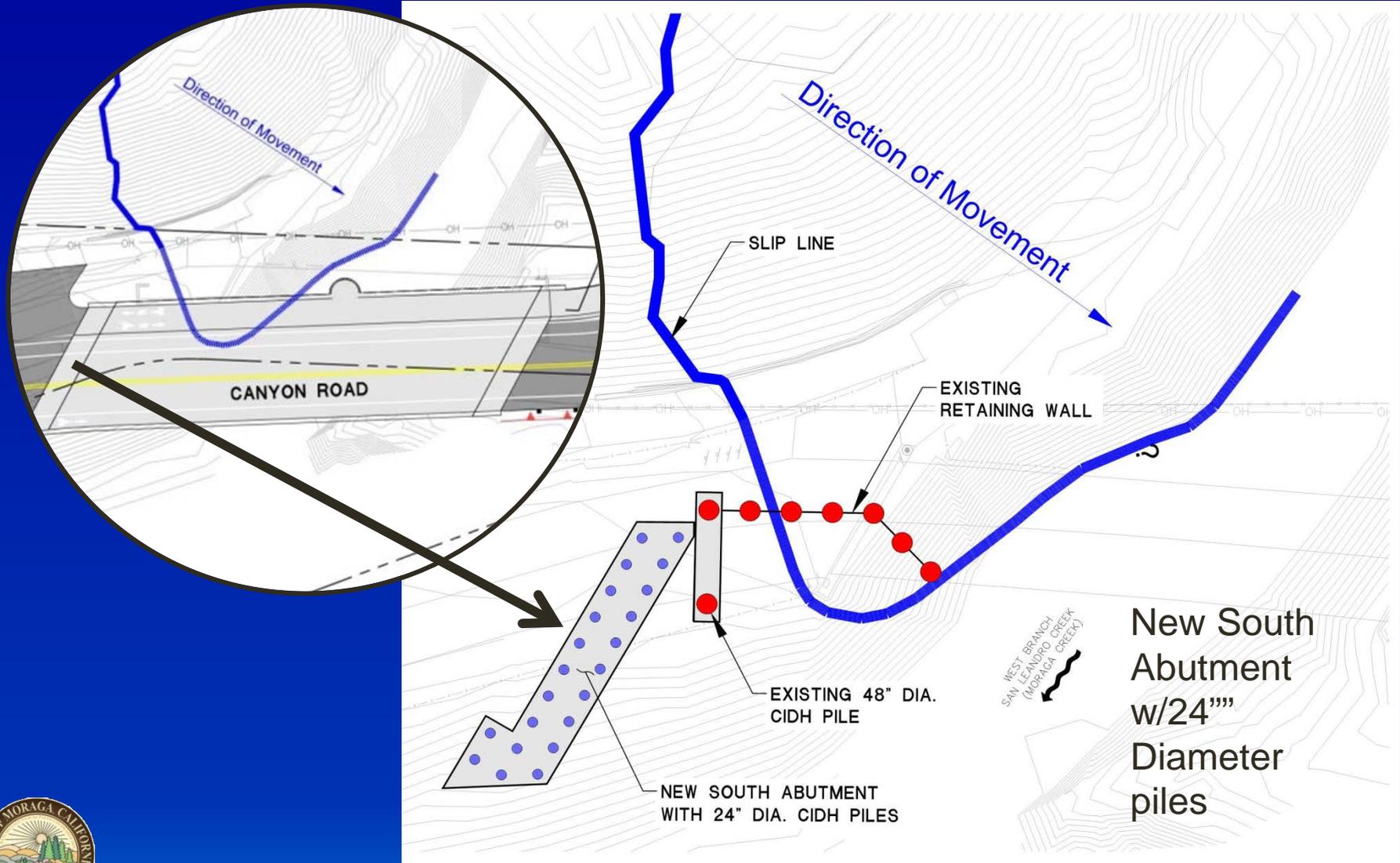
→ 56% Bigger Bridge = Increases Concrete, Steel, Pilings, and Labor

→ 44% Longer Retaining Walls:

- 240 vs 318 ft. longer wall
- 40 vs. 71 more piles
- 1,200 vs. 2,000 ft. total length of pilings



Bridge Design to Address Landslide



6/14/17

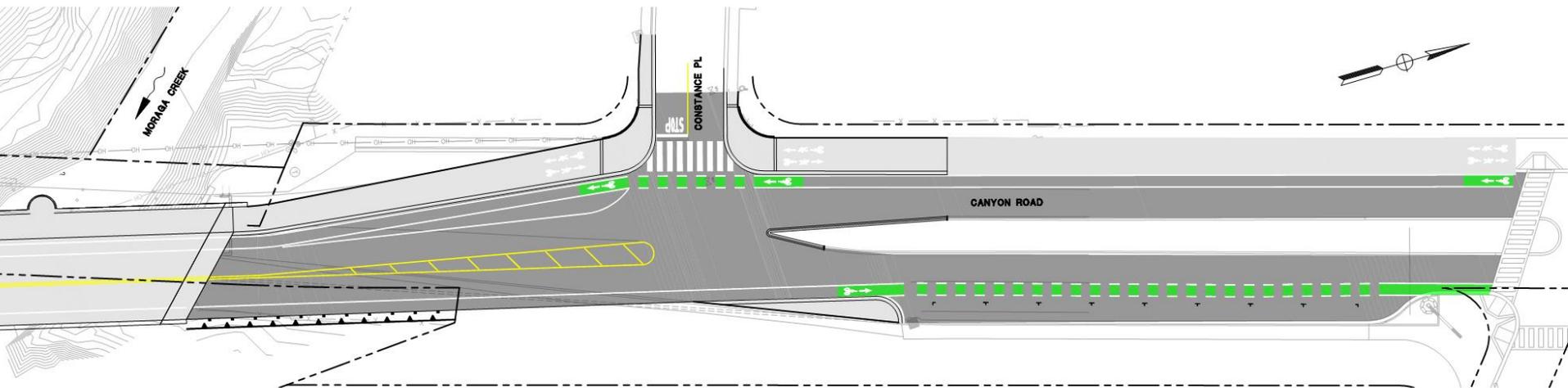
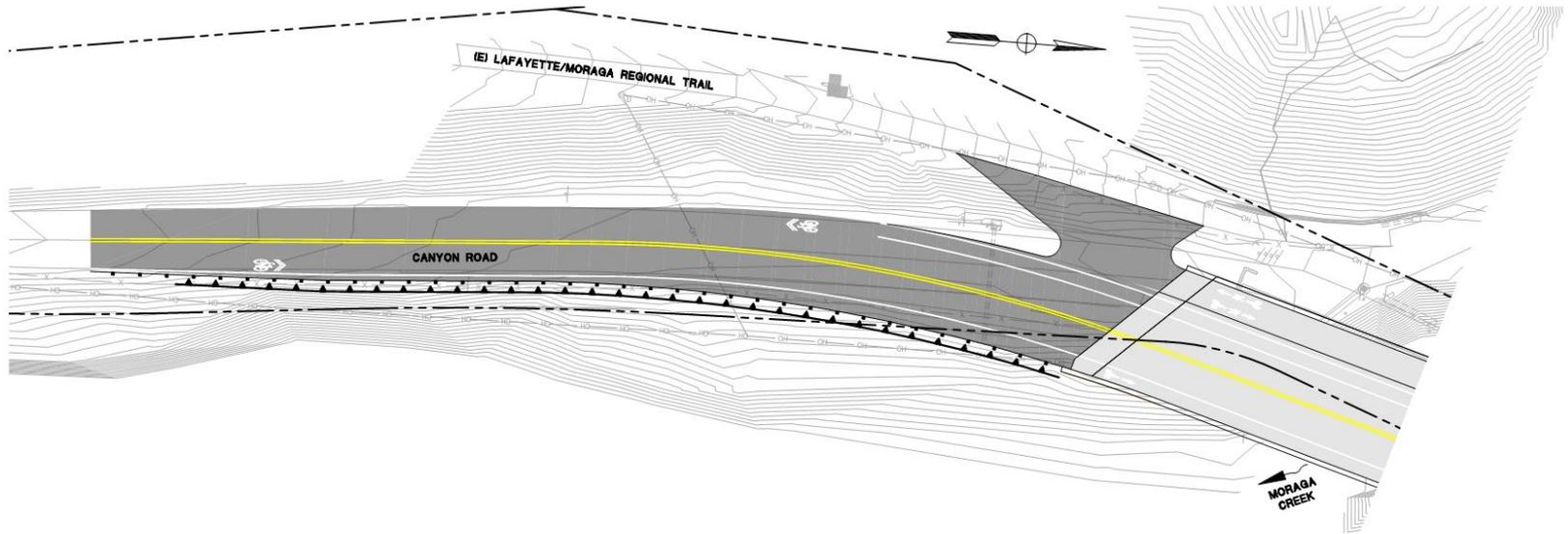
KEY DESIGN ELEMENTS

- Bike Lanes and Multi-Use Path across bridge
- Lighting for Motorist and Pedestrians
- Improved Sight Distance
- Improved Aesthetics
- Widen Bridge to Std.
- Guard Rails



Examples:
Left – separated multi-use path
Above - open guard rail

BRIDGE AND ROADWAY COORDINATION



Preliminary Moraga Way & Canyon - Camino Pablo Improvements

2018 – REDESIGN & FUNDING FREEZE

- Town Requests \$7.2M Budget
- HBP Freezes All Funding
- Town Appeals Funding Freeze
- Caltrans Releases Funds for PE, ENV, RW
- Caltrans Approves New Budget \$6.5M
 - \$700k in Funding Shortfall Still To Be Addressed

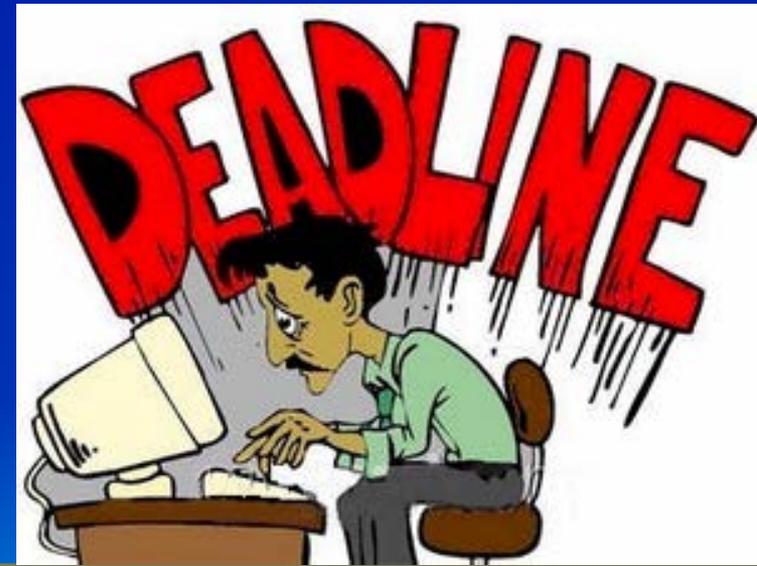
Note: Bridge funding process is flexible to enable the incorporation of additional information discovered during the design process.



FUNDING DEADLINE

- Staff requests Caltrans funding in FY 18/19 as funding for temporary bridge lease expires in September 2019

- Caltrans Sets November 1st Deadline to Accelerate Funds. Documents due include:
 - Environmental Clearances
 - RW Clearances
 - Utility Clearance
 - Final Design



10/10/2018

2019 - CONSTRUCTION SCHEDULE

- January Advertise For Construction
- February Bid Opening
- March Council Review and Award
- April Construction Commence
(2 Season Construction Phasing)

Assumes Caltrans accelerates funding to FY 2018/19. If funding not accelerated, Town will need to evaluate options and determine course of action.



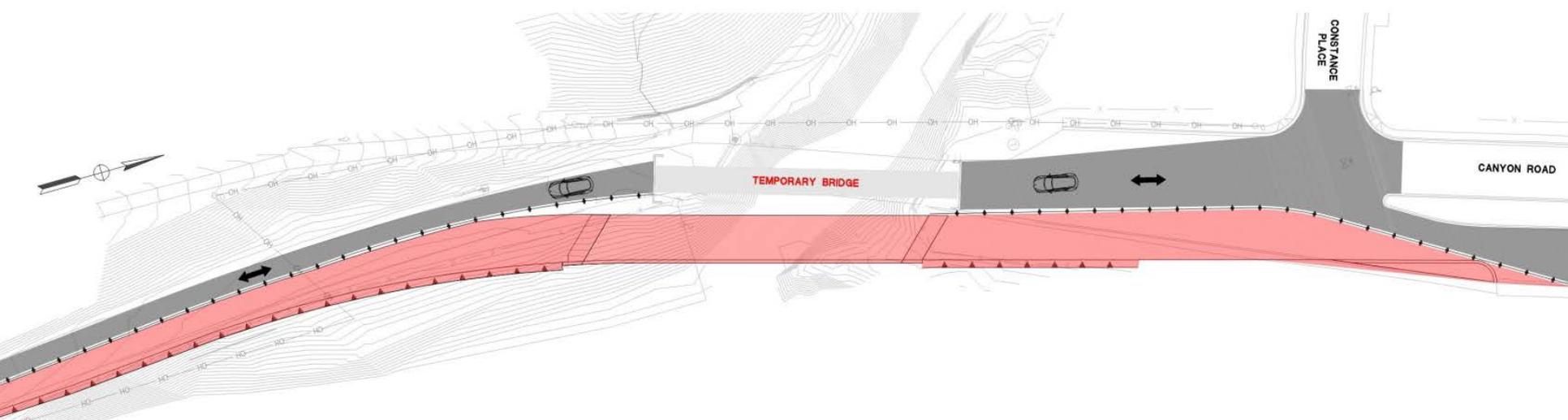
10/10/2018



2019 Construction – Phase I

Construct bridge's northbound lane and approaches

Temporary bridge continues to handle traffic in both directions



2020 Construction - Phase 2

Construct bridge's southbound lane and remove temporary bridge

New northbound lane handles traffic in both directions



2020 Construction - Phase 2

Discussion

