



State Route 12

Rio Vista Complete Streets Update

Presented by Caltrans and STA Staff

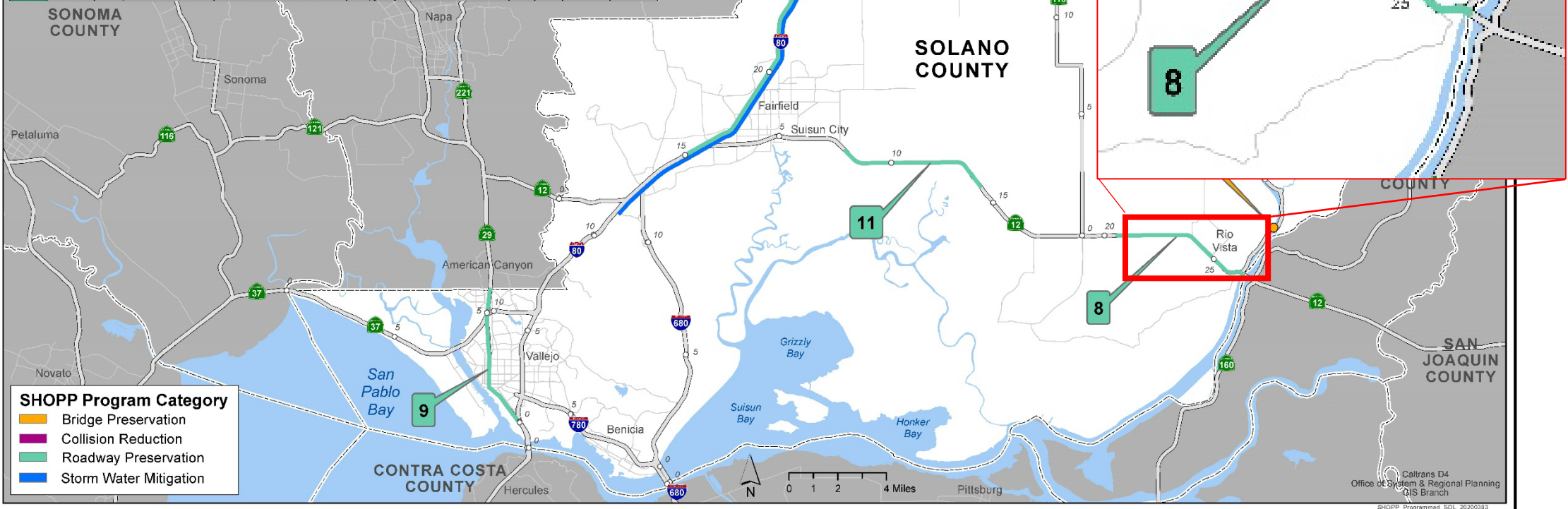
April 26, 2022



District 4 2020 State Highway Operations & Protection Program (SHOPP) Programmed Projects - Solano County

Draft March 2020

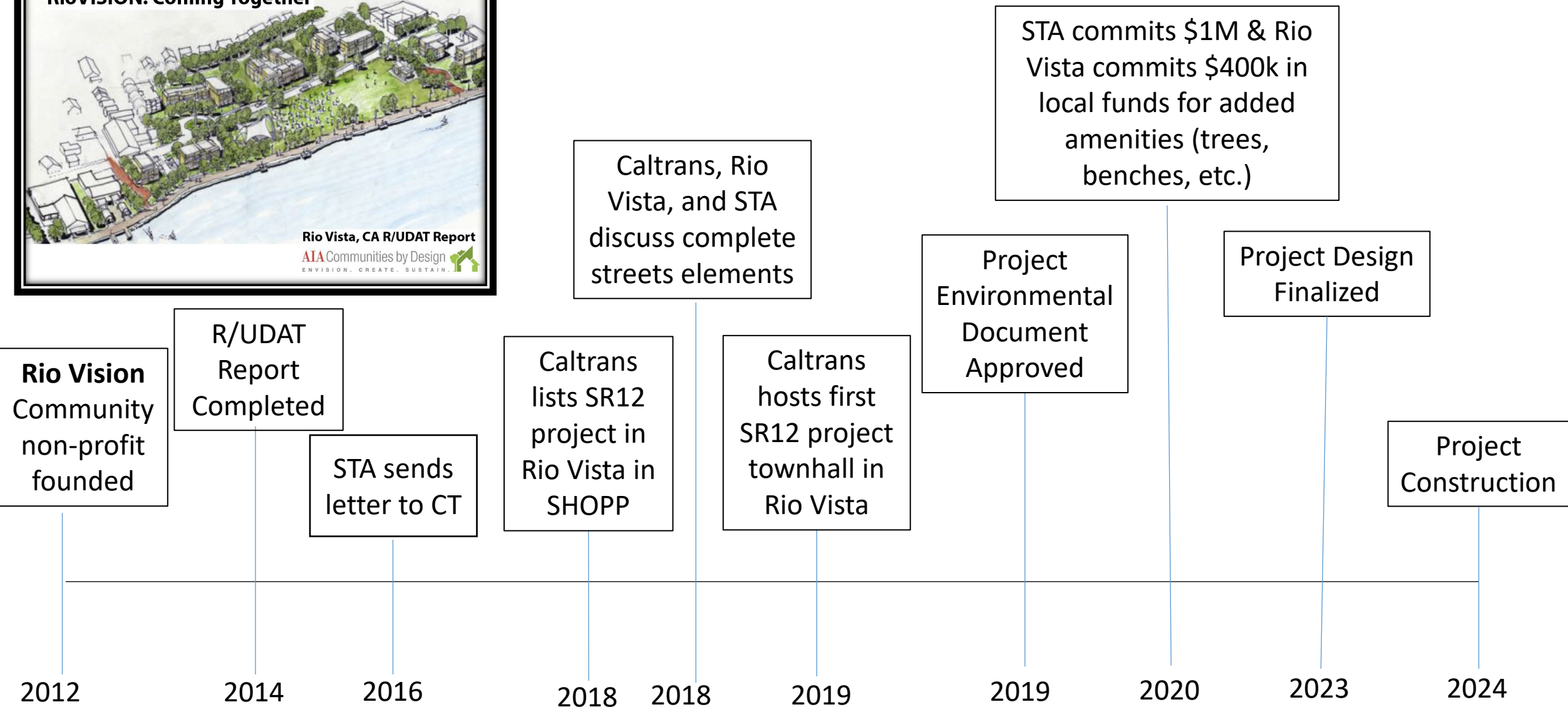
Map ID	SHOPP Category	EA	Co-Rte-Post Miles	Work Description	Pgm FY	Phase	Constr Cap (\$K)	Begin Constr
not mapped	Collision Reduction	0K100	Sd-12, 29, 37, 80, 113, 505, 780 at var locns	Enhance pedestrian safety by installing Accessible Pedestrian Signal (APS) systems and countdown timers and upgrading crosswalk markings.	23/24	PID	\$3,263	1/20/25 (T)
not mapped	Collision Reduction	0P780	Sd-29, 37, 80, 780 at var locns	Enhance pedestrian and bicyclist safety by installing flashing beacon systems and upgrading crosswalk markings.	23/24	PID	\$5,963	9/2/24 (T)
not mapped	Storm Water Mitigation	2Q890	Solano on var routes at var locns	Construct permanent BMP's to achieve Statewide NPDES permit compliance units for trash capture. FCO to the Vallejo Flood and Wastewater District.	22/23	PID	\$5,000	12/20/22 (T)
4	Storm Water Mitigation	0Q190	Sd-80-R11.3/38.0	In and near Fairfield, Vacaville, and Dixon, from Red Top Road to Route 113 at var locns; on Route 680 near Benicia and Fairfield, from Contra Costa County line to Route 80 (PM R0.0R13.0) at var locns. Construct permanent BMP's to achieve Statewide NPDES permit compliance units for trash capture.	22/23	PID	\$4,980	10/24/23 (T)
5	Bridge Preservation	1Q870	Sd-128-0.7	Near Winters, at Pulah Creek Bridge No. 23-0099 (PM 0.72). Rehabilitate bridges by upgrading bridge rails and overlaying bridge deck.	23/24	PID	\$4,587	9/9/24 (T)
6	Bridge Preservation	0J600	Sd-80-34.5	In and near Dixon and Vacaville, at McCune Creek Bridge No. 23-0084LR; on Route 505 at Horse Creek Bridge No. 23-0077L. Bridge preventative maintenance.	20/21	PSE	\$4,317	4/1/21 (T)
7	Bridge Preservation	4H060	Sd-84-2.5	Near Rio Vista, at the Cache Slough Ferry Crossing. Upgrade the existing fender systems, concrete ramps, and swing gate systems, modify the ferry boat deck surface, and install traffic counter and Vehicle Detection Systems (VDS).	21/22	PAED	\$12,630	12/19/22 (T)
8	Roadway Preservation	0J630	Sd-12-20.6/26.4	In and near Rio Vista, from Currie Road to Sacramento County line. Roadway rehabilitation.	21/22	PSE	\$73,200	8/1/22 (T)
9	Roadway Preservation	2Q820	Sd-29-0.0/6.0	In Vallejo, from Route 80 to Napa County line (PM 0.0/5.955). Rehabilitate pavement and upgrade facilities to ADA standards.	22/23	PID	\$24,059	1/29/24 (T)
10	Roadway Preservation	0K640	Sd-80-15.0/30.7	In and near Fairfield and Vacaville, from 1.5 miles east of Suisun Valley Rd / Pittman Rd to 0.8 mile east of Leisure Town Rd / Vaca Valley Pkwy. Rehabilitate pavement, upgrade facilities to ADA standards, upgrade guardrail and Transportation Management System (TMS) elements.	23/24	PID	\$25,043	4/1/24 (T)
11	Roadway Preservation	2Q850	Sd-12-7.9/14.1	Near Suisun City, from 0.5 mile west of Walters Road to 0.5 mile west of Lambie Road/Shioh Road. Rehabilitate roadway and upgrade guardrail.	23/24	PID	\$23,478	11/1/24 (T)



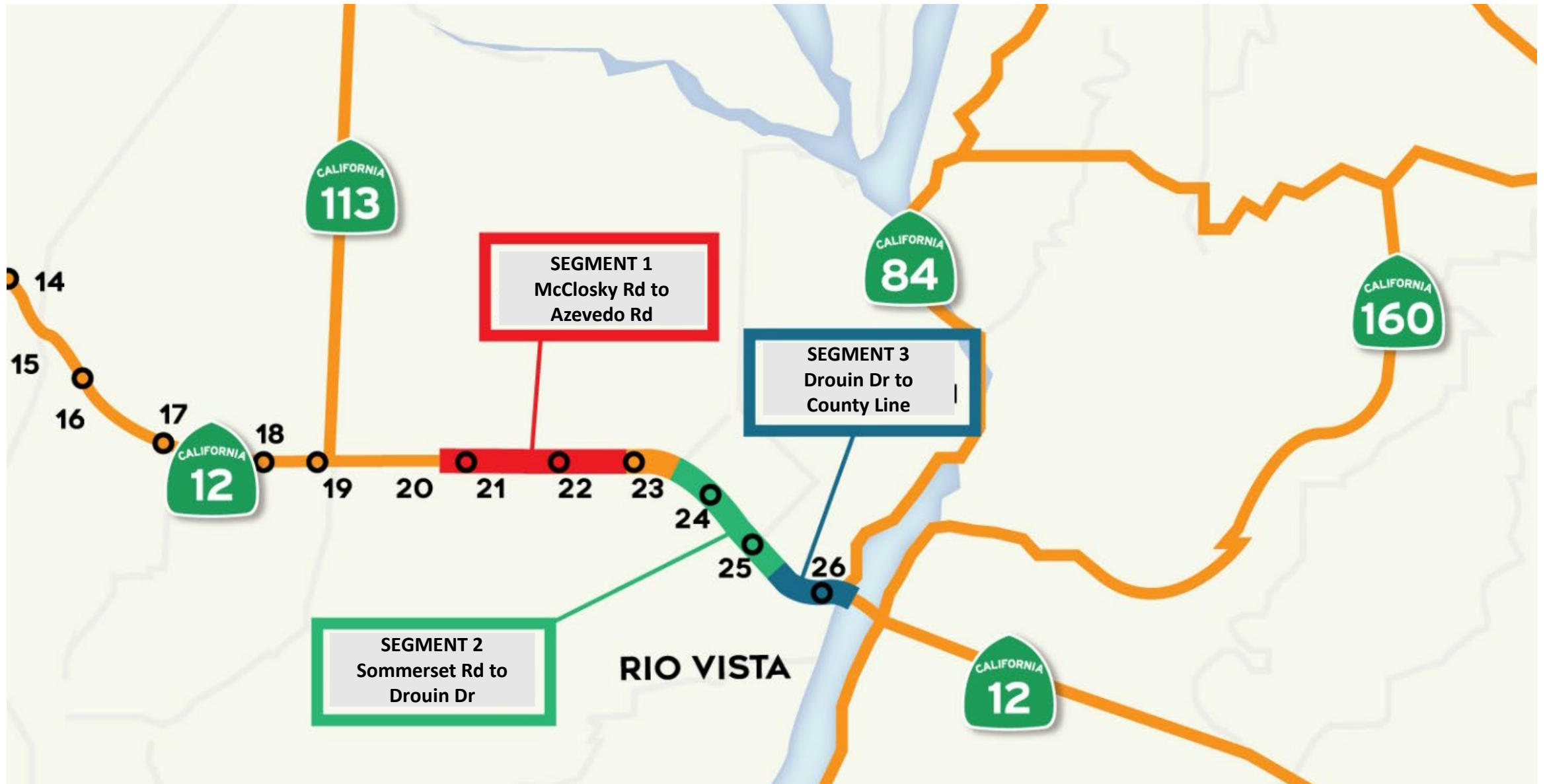
SHOPP Program Category

- Bridge Preservation
- Collision Reduction
- Roadway Preservation
- Storm Water Mitigation

Recent Vision for Downtown SR12 in Rio Vista



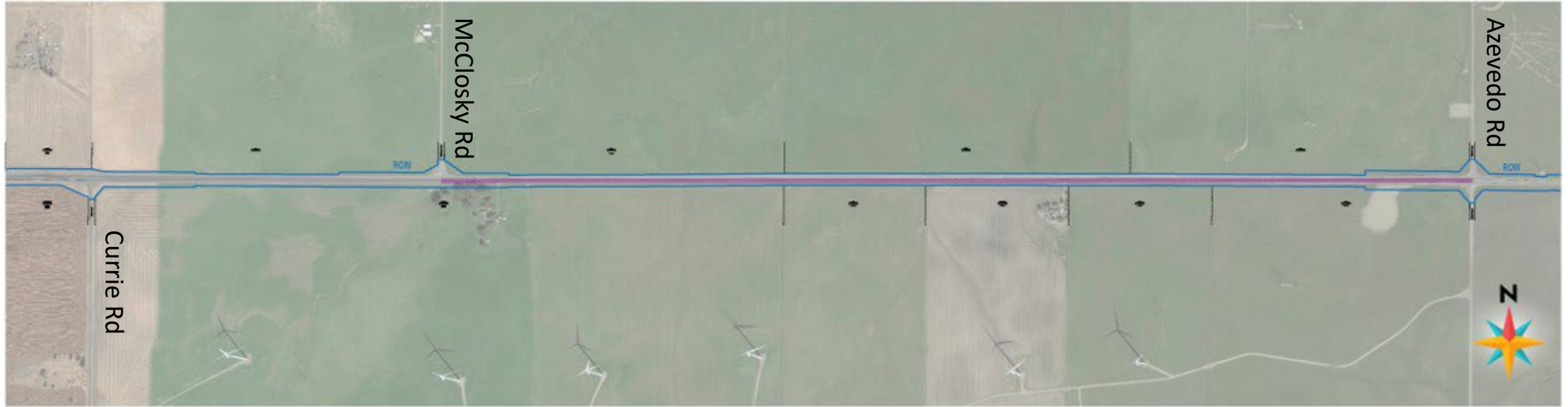
PROPOSED PROJECT – Resurfacing Restoration Rehabilitation



SEGMENT 1 – McClosky Rd. to Azevedo Rd. EXISTING CONDITION



SEGMENT 1 – McClosky Rd. to Azevedo Rd. – Roadway Rehab.



LEGEND

-  Roadway Resurfacing
-  Caltrans Right of Way

- Rehab Pavement Cracks and Potholes
- Upgrade Guardrails
- Replace Existing Pipe Culverts

SEGMENT 1 – Funding and Milestones

CAP COST	Engr. Estimate
Construction and R/W Capital	\$3.8M

Milestone	Target Date
Construction Start	Summer 2022
Construction End	Fall 2023

SEGMENT 2 – Summerset Road to Drouin Drive. EXISTING CONDITION



SEGMENT 2 – Summerset Road to Drouin Drive – Safety Enhancements



- Rehab Pavement Cracks and Potholes
- Upgrade Non-Standard Guardrails
- Add Shoulder Backing to Extend Life of Pavement
- Replace Existing Pipe Culverts

- Widen Shoulders and Travel Lanes to Standard
- Create Bike Lanes within Widened Shoulders
- Improve Sight Distance (Vertical Curve Correction)
- **Church Rd. Intersection Improvements**

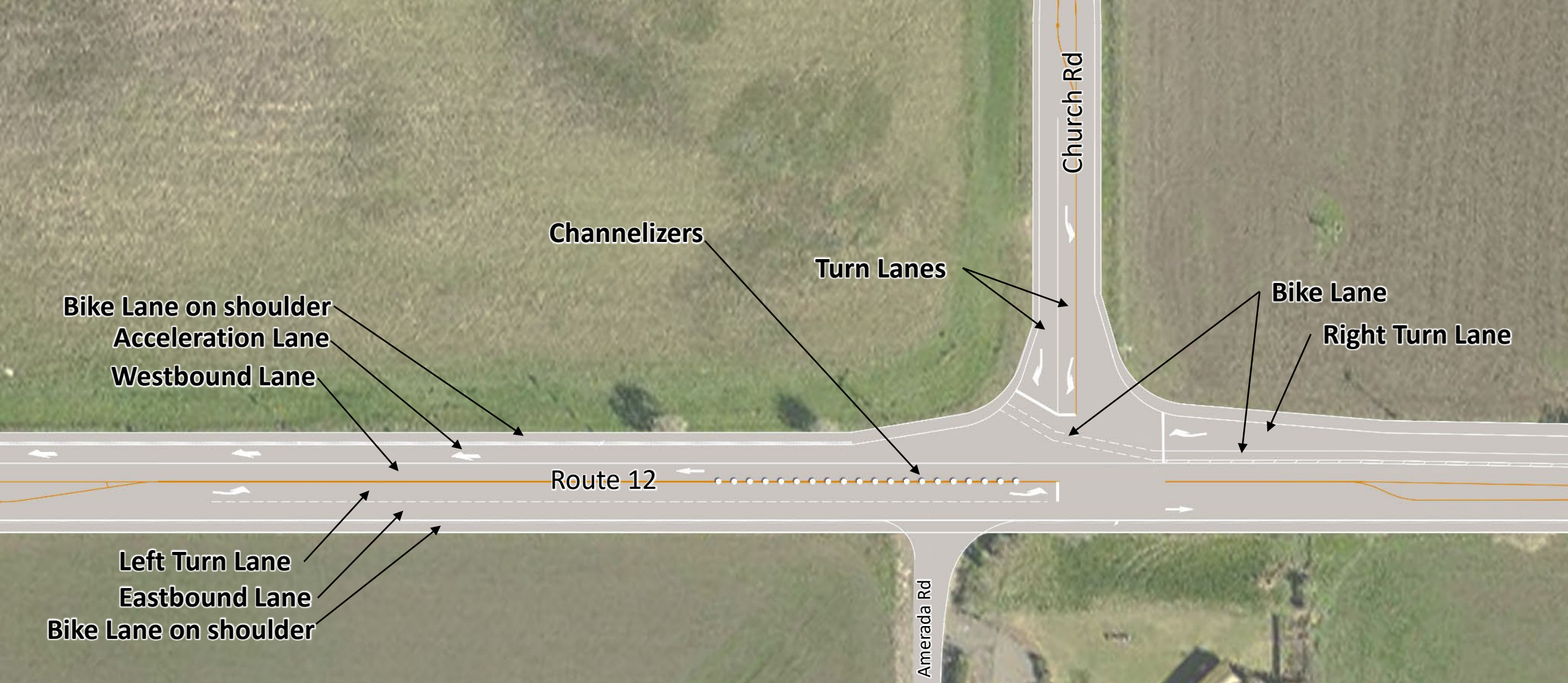
SEGMENT 2 – Summerset Road to Drouin Drive – Safety Enhancements



Shoulder
Width 8'



Church Road Intersection Improvements



SEGMENT 2 – Funding and Milestones

CAP COST	Engr. Estimate
Construction and R/W Capital	\$60.6M
STA Contribution	\$1.9M

Milestone	Target Date
Construction Start	Spring 2024
Construction End	Fall 2025

Segment 3 Project Limits – Drouin Drive to Sacramento County Line



SEGMENT 3 – 3R & Complete Streets to Transform Downtown Rio Vista

Opportunities for Improvement:

- Roadway:
 - Pavement failure at several locations
 - Nonstandard cross-slopes
 - Existing roadway flooding
 - Excess roadway width
 - Conflicts with Truck traffic
- Pedestrians:
 - Intermittent sidewalks
 - Non-standard widths
 - Curb ramps not all ADA compliant
 - Improvements to crossings needed
- Cyclists:
 - No bike lanes
 - Improvements to crossings needed



SEGMENT 3 – Drouin Drive to Sacramento County line



- Rehab Pavement Cracks and Potholes
- Address Drainage Issues
- Complete Streets Improvements
 - Install Continuous ADA Accessible Sidewalks
 - Create New Pedestrian Crossing
 - Update Existing Crossings
 - Create Class 4 Protected Bike Lanes
 - Collaborate with City & County to Install Additional Streetscape Improvements

LEGEND

 Existing sidewalk to be replaced

 New sidewalk

 New/improved pedestrian crossing

 Bus Stop, (location TBD)

 Bike Lane Class 2

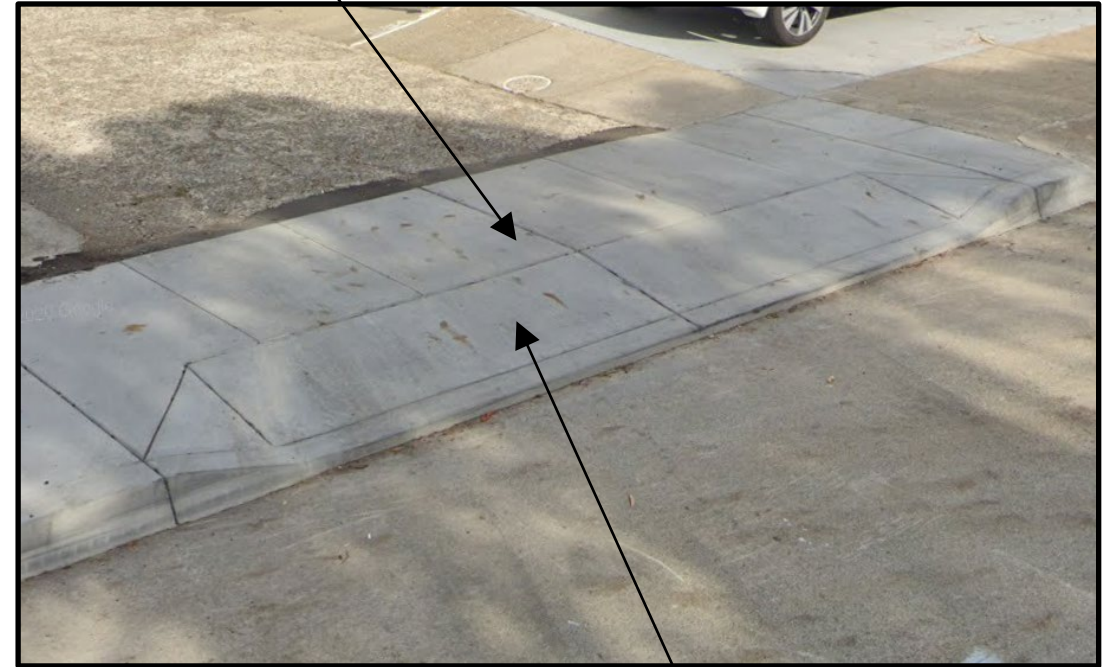
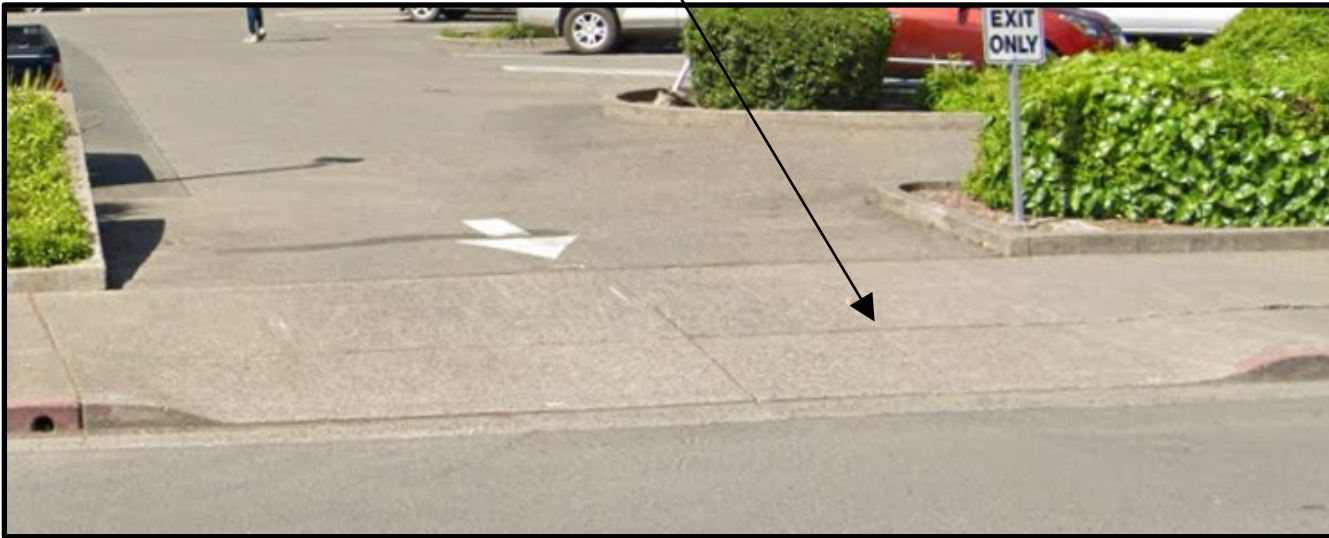
 Bike Lane Class 4

Segment 3 - Reconstruct Driveways



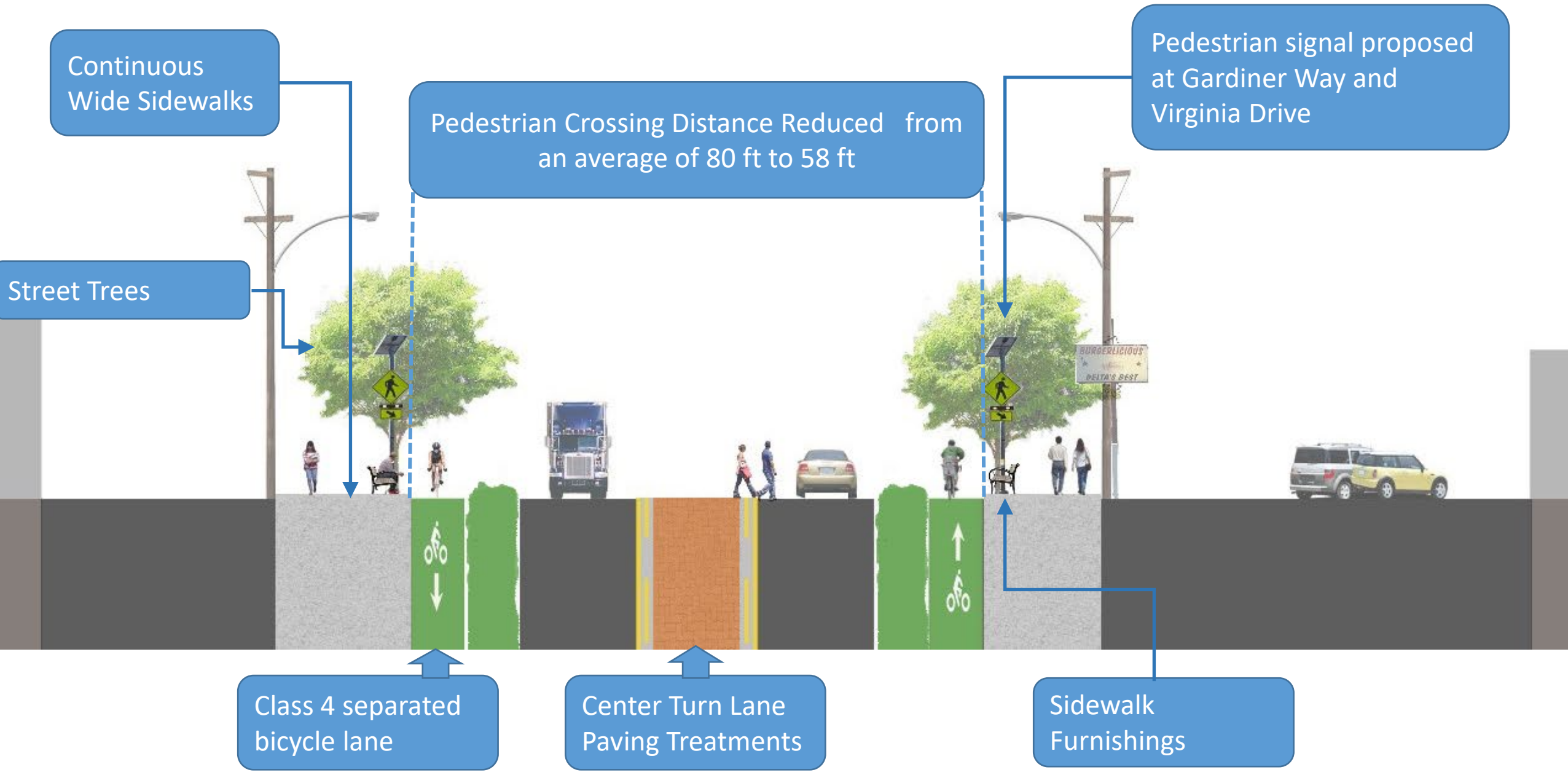
4'-2" min req
at 1.5% max

Sidewalk slope at
driveway not ADA
compliant



Propose ramp

SEGMENT 3 – Improvements



SEGMENT 3 – Proposed Improvements

Schematic Plan



SEGMENT 3 - Improvements + Funding

Schematic Plan - Detail



Street trees

SEGMENT 3 - Improvements + Funding

Schematic Plan - Detail



Pedestrian Crossings

Park Space – Hillside Terrace



Additional Improvements – Providing Safer Crossings



SEGMENT 3 – Funding and Milestones

CAP Cost	Engr. Estimate
Construction Capital	\$14M
STA Contribution	\$1M
City of Rio Vista Contr.	\$400K

Milestone	Target Date
Construction Start	Spring 2024
Construction End	Summer 2025

SEGMENT 3 – NEXT STEPS

Next Steps for Segment 3:

- Meeting with City of Rio Vista staff to receive input on Downtown amenities and other design details.
- Secure all Right of Way needs and Environmental Permits
- Finalize Design by late 2023

Questions or Comments

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PROPOSED PROJECT – Resurfacing Restoration Rehabilitation

