



 Public Works

SOCIETY OF AMERICAN MILITARY ENGINEERS

SEPTEMBER 16, 2021



Welcome

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- **Joseph Sly**

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- **About OC Public Works**
- **7-Year Capital Improvement Program**
- **Projects**
 - Recently Completed
 - In Construction
 - Upcoming
- **Procurement Process**

**OC Facilities Maintenance
and Central Utility Facility (CUF)**



Administrative Services

**OC Infrastructure
Programs**



OC Development Services

OC Survey



OC Construction

OC Fleet Services



OC Environmental Resources

OC Operations & Maintenance



**OC Facilities Design &
Construction Management**

**OC
CPW**















7-Year Capital Improvement Program-Project List

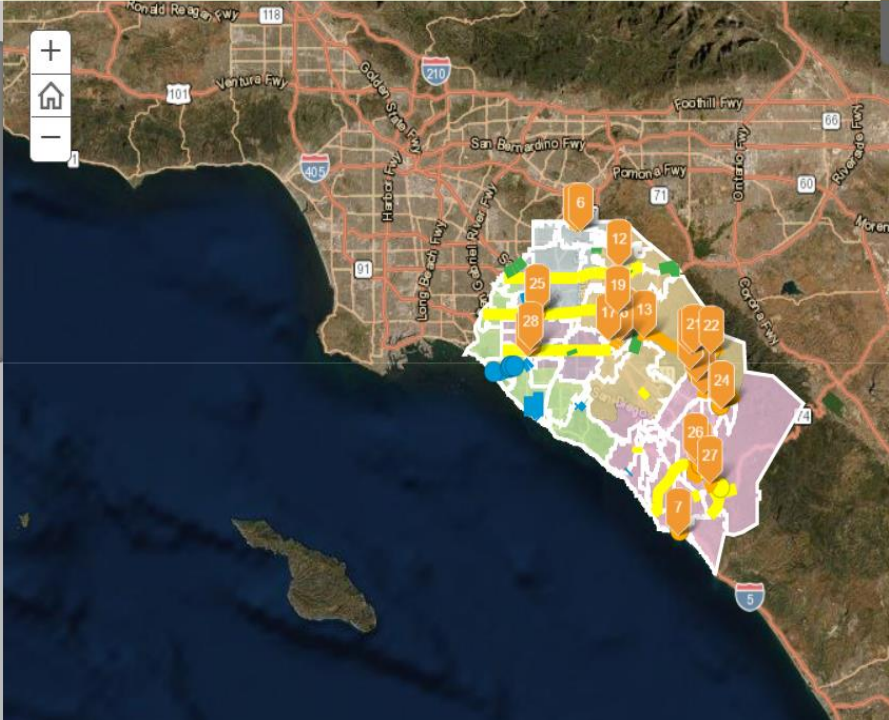
13	Flood Control Capital Improvement Program, Project Name	Dist	Cost Description	Project Costs						7 yr. Total Project Cost	
				Budgeted FY 2021-22	Planned FY 2022- 23	Planned FY 2023- 24	Planned FY 2024- 25	Planned FY 2025- 26	Planned FY 2026-27		Planned FY 2027-28
	Santa Ana-Delhi Channel (F01)	2	Construction Cost Estimate	-	-	23,400,000	7,800,000	-	-	-	31,200,000
			Total Pre-Design	39,000	39,000	10,000	-	-	-	-	88,000
	Project Limits: from Bayview Bridge to D/S Mesa Drive		Total Design	1,545,000	295,000	60,000	-	-	-	-	1,900,000
			Total Design Admin/Prjct Mgmt	223,000	159,000	80,000	-	-	-	-	462,000
	Project Description: The project consists of widening portions of the channel to create additional habitat area, restoring channel slopes to convey a 100-year storm event, and replacing the existing bicycle bridge to allow continued coastal access		Total Survey - Design	30,000	20,000	10,000	10,000	-	-	-	70,000
			Total Survey - Construction	-	-	130,000	30,000	-	-	-	160,000
	Priority Criteria: B, D		Total Env/CEQA/Permits	431,000	272,000	55,000	-	-	-	-	758,000
			Total Utilities	123,000	66,000	16,000	-	-	-	-	205,000
			Total All Right of Way	245,000	5,161,000	5,000	-	-	-	-	5,411,000
	Delivery Method: CMAR or DB		Total Construction Mgmt/Insp	-	-	1,270,000	850,000	60,000	-	-	2,180,000
			Total Mitigation	-	-	-	-	-	-	-	-
			Total Cost	2,636,000	6,012,000	25,036,000	8,690,000	60,000	-	-	42,434,000
			On Going Maintenance	-	-	-	-	-	-	-	-

- Road
- Flood
- Bikeways
- Parks
- Libraries

7-Year Capital Improvement Program-Interactive Map

Road and Bridge Externally Funded Flood Control Bikeways

 <p>1 ADA (Americans with Disabilities Act)...</p>	 <p>2 ADA (Americans with Disabilities Act)...</p>	 <p>3 Antonio Pkwy and Crown Valley Pkwy...</p>	 <p>4 Barrett Lane Drainage and Sidewalk...</p>
 <p>5 Brea Boulevard - Bridge Replacement and...</p>	 <p>6 Brea Boulevard - Corridor Improvement</p>	 <p>7 Coast Highway Bikeway and Pedestrian Bridge ...</p>	 <p>8 Crawford Canyon Road Sidewalk Extension</p>
 <p>9 El Toro Road Corridor Improvements</p>	 <p>10 Gilbert Street Improvements</p>	 <p>11 Guardrail Project - Silverado Canyon Road</p>	 <p>12 Kellogg Drive Sidewalk Rehabilitation (Annual)</p>



Interactive GIS Map

7-Year Capital Improvement Program-Interactive Map

OC Public Works | 7-Year Capital Improvement Program | Fiscal Years 2021-22 to 2027-28

Prepared by OC Public Works | OC Survey | Geospatial Services

** The expenditures for all projects may be re-evaluated when a more concrete understanding of impacts to revenue and funding resulting from the state and local orders to limit the spread of COVID-19 is available.*

Road and Bridge

Externally Funded

Flood Control

Bikeways

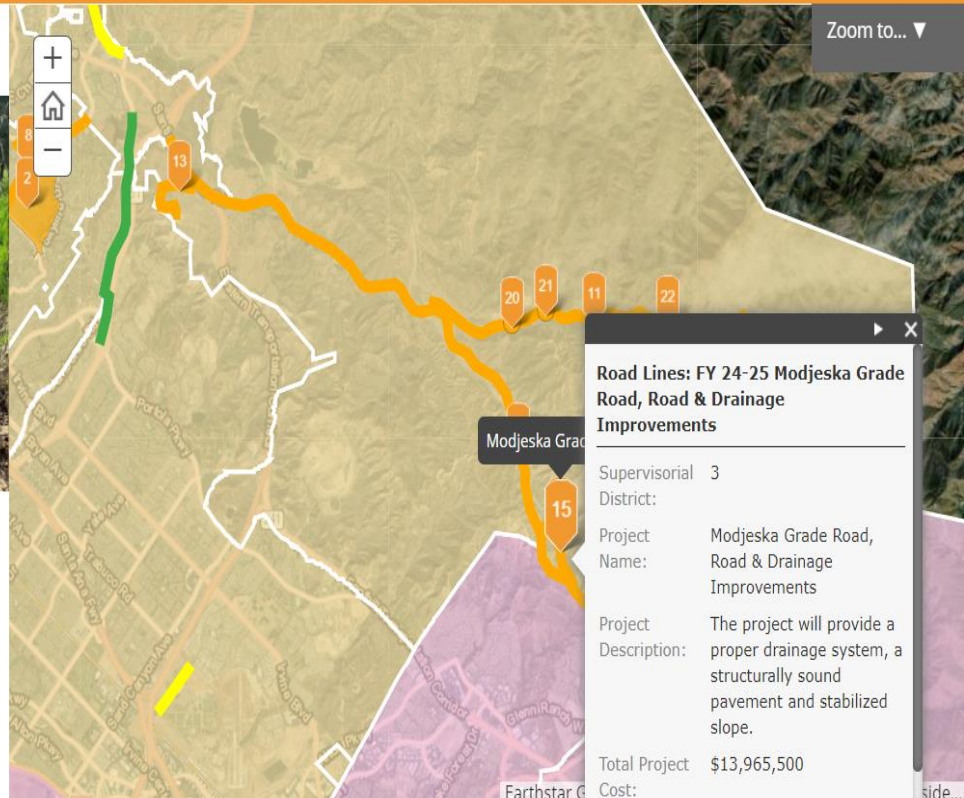
15 Modjeska Grade Road



FY 24-25 Modjeska Grade Road | Road & Drainage Improvements

The project will provide a proper drainage system, a structurally sound pavement and stabilized slope.

Total Project Cost: \$13,965,500



Interactive GIS Map

RECENTLY COMPLETED CONSTRUCTION PROJECTS

Santiago Canyon Road Safety Improvements

Construction cost:
\$2.8 million

Began
construction:
July 2020



Completed
construction:
April 2021

- High friction surface treatment (HFST)
- Guardrail Replacement
- Installation of rumble strips
- Enhanced roadway delineation & signage

Feb 11, 2021 at 08:53:18
18341–18393 Santiago Canyon Rd
Trabuco Canyon CA 92679
United States
Whiting Ranch Wilderness Park



DURING CONSTRUCTION

Mar 8, 2021 at 08:05:53

Silverado CA 92676

United States

Limestone Canyon Nature Preserve



POST CONSTRUCTION

OC Animal Care Facility



Construction cost:
\$35 million

Began
construction:
August 2016



Completed
construction:
March 2018

- 10-acre site with indoor/outdoor animal areas
- Multiple play yards & new surgery suites
- Enhanced community room
- Climate controlled buildings



Older OC Animal Care Facility



New OC Animal Care Facility



Santa Ana Avenue & University Drive Roadway Improvements & Perez Park

Construction cost:
\$1.8 million

Began construction:
June 2020



Completed construction:
Jan 2021

- Grading and repaving
- Complete crosswalks with new ADA curb ramps
- Stormwater bioretention
- Creation of a new community pocket park



PRE- CONSTRUCTION

June 12, 2020 at 8:02:42 AM

+33.658124,-117.890122

Costa Mesa, CA 92627



DURING CONSTRUCTION



POST-CONSTRUCTION

Fullerton Creek Channel Improvements- Phase 2

Construction cost:
\$32 million

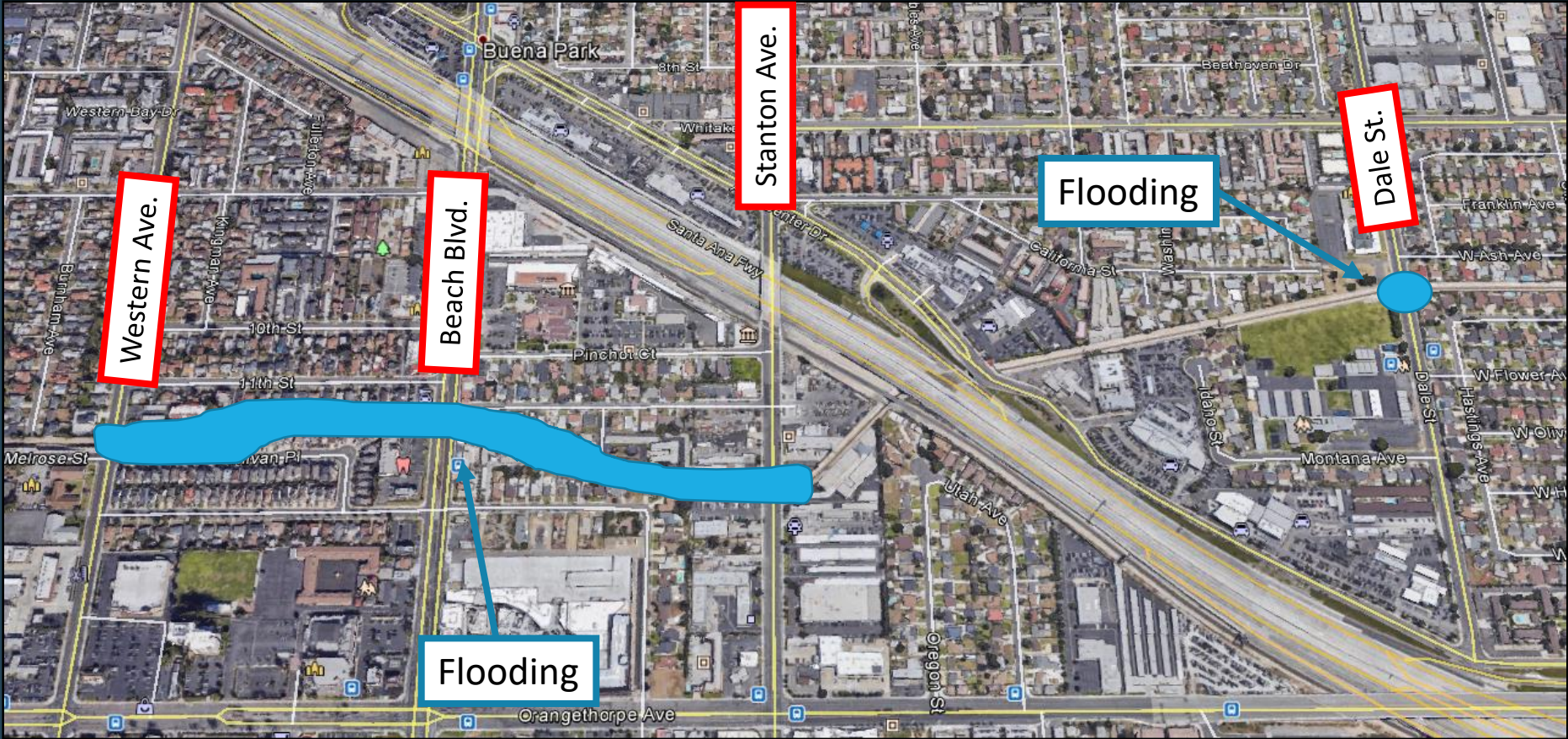
Began
construction:
Oct 2019



Completed
construction:
March 2021

- Increase flood carrying capacity by installation of steel sheet piles;
- Excavate existing trapezoidal concrete channel
- Construct concrete channel

Flood Reported from Jan. 5 1995 to Jan. 10 1995





PRE-CONSTRUCTION

Fullerton Creek Channel- Phase 2



DURING CONSTRUCTION
Fullerton Creek Channel- Phase 2

PROJECTS CURRENTLY IN CONSTRUCTION

OC Loop Segment H

El Cajon Bikeway

Construction cost:
\$2.5 million

Began
construction:
Nov 2020



Anticipated
completion:
Jan 2022

- Construct a new bikeway (combination of Class I, II, III & IV facilities) and a multi-use trail section, with a total length of 1.2 miles

Apr 13, 2021 at 2:05:23 PM



DURING CONSTRUCTION

East Garden Grove Wintersburg Channel Project

Construction cost:
\$70 million

Began
construction:
Oct 2020



Anticipated
completion:
Oct 2022

- Dual-row steel sheet pile walls;
- Soil improvements;
- Excavation of channel side slopes;
- Landside drainage improvements;
- Enhanced maintenance access



12/15/2020 10:17

DURING CONSTRUCTION



03/23/2021 07:40

DURING CONSTRUCTION

East Garden Grove-Wintersburg Channel

Existing



Completed Project



County Administration North (CAN-Building 14)

Construction cost:
\$200 million

Began construction:
May 2020



Anticipated completion:
July 2022

- Six-story, 254,000-sf mid-rise designated to meet USGBC LEED Silver office building over two levels of subterranean parking
- New 300-seat Board hearing room
- Five Board District offices, Clerk of the Board, County Executive Offices



County Administration North (CAN-Building 14)

Large Mammal Exhibit at OC Zoo

Construction cost:
\$9.6 million

Began
construction:
2021



Anticipated
completion:
2022

- Four environmentally realistic habitats to house “large cat” breeds
- Bridge connecting habitats together
- Visitor passing underneath

Large Mammal Exhibit at OC Zoo



DURING CONSTRUCTION

UPCOMING CONSTRUCTION PROJECTS

**Huntington
Beach and
Talbert
Channel**

**Sheet Pile
Repair Project**

**Construction cost:
\$68.5 million**

**Anticipated
construction:
Sept 2021**



**Anticipated
completion:
Summer 2023**

- Repair and replace reaches of corroded steel sheet piles
- Secure FEMA's levee recertification and keep residents out of the floodplain

Huntington Beach and Talbert Channel

Sheet Pile Repair Project



EXISTING CONDITIONS



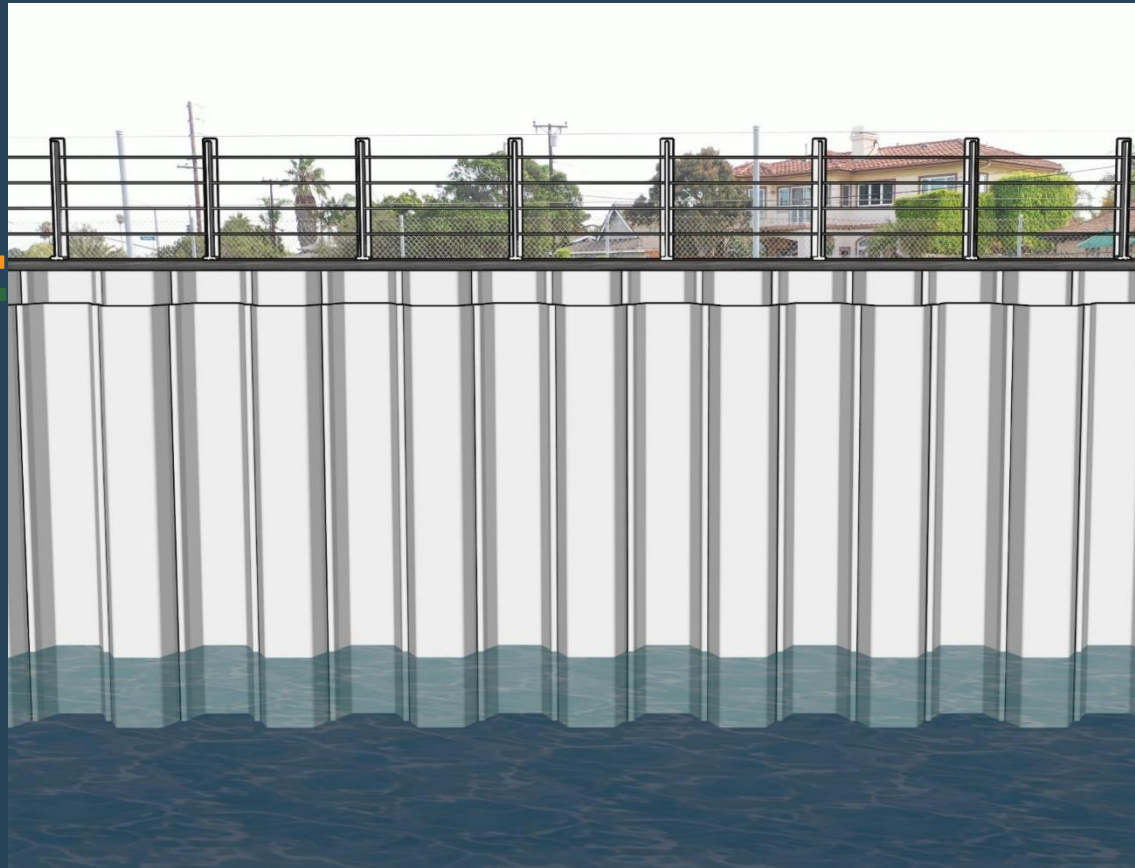
Huntington Beach and Talbert Channel Sheet Pile Repair Project

FUTURE CHANNEL SIDE VIEW

New
Existing



Typical
6-inch
difference



Laguna Canyon Channel Replacement Project

Construction cost:
\$6.3 million

Anticipated
construction:
Early 2022



Anticipated
completion:
Spring 2022

- Replace damaged channel
- Maintain existing flood protection
- Remove trees that pose risk to channel

Laguna Canyon Channel Replacement Project



February 2019 Storm Damage



Braced Shoring Segment

FUTURE East Garden Grove-Wintersburg Channel Projects (FY 21-22 to FY 26-27)



Bikeways- OC LOOP Projects

OC Loop Segments A-T

County Segments Completed

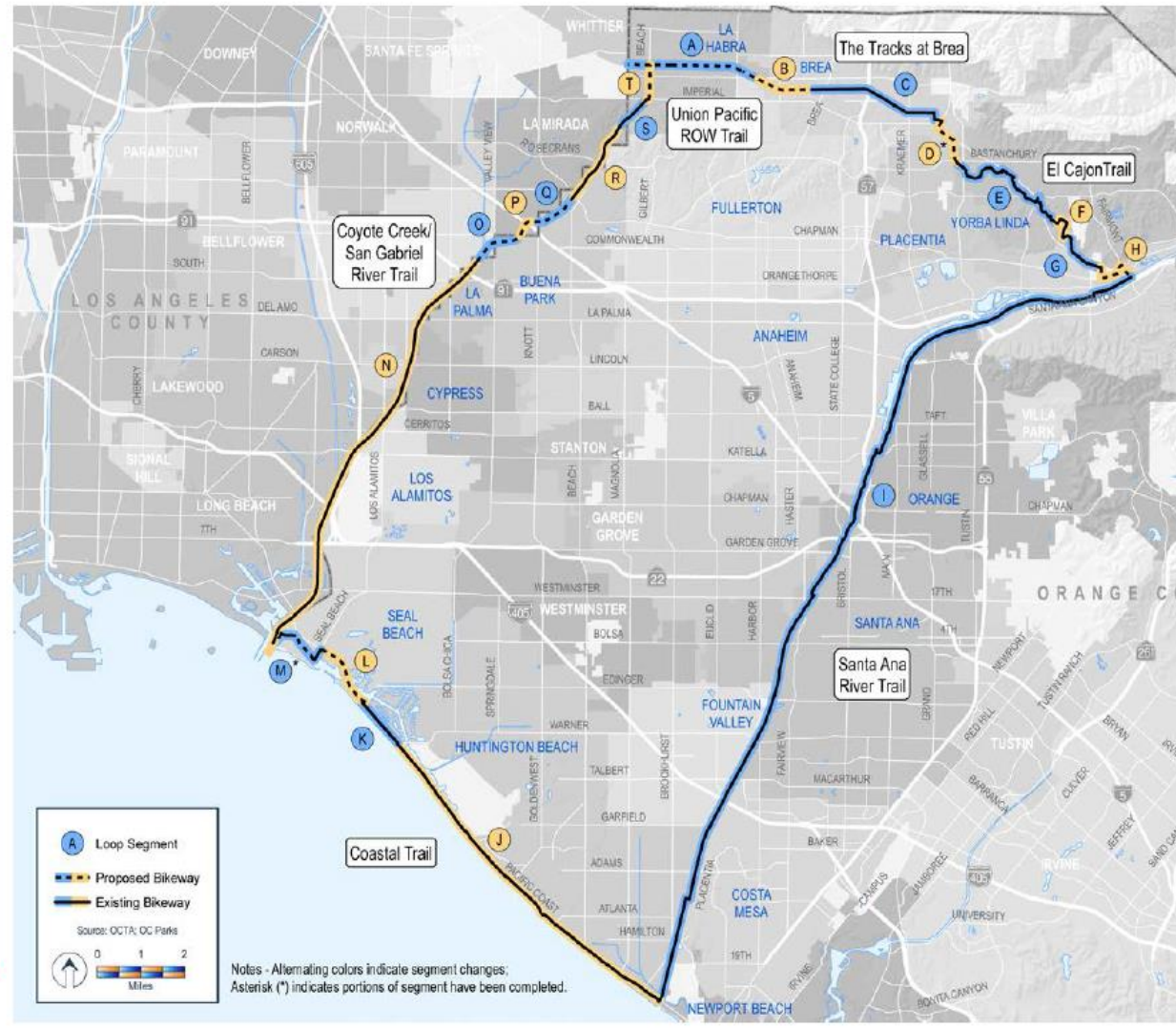
- Segments E, F, G, I, N, R

County Segments in Progress

- Segments D, H, O, P, Q

Other Segments in Progress

- Segments A, B, L, M, T



OC Loop

Segment OPQ

Construction cost:
\$38 million

Upcoming
Design RFP

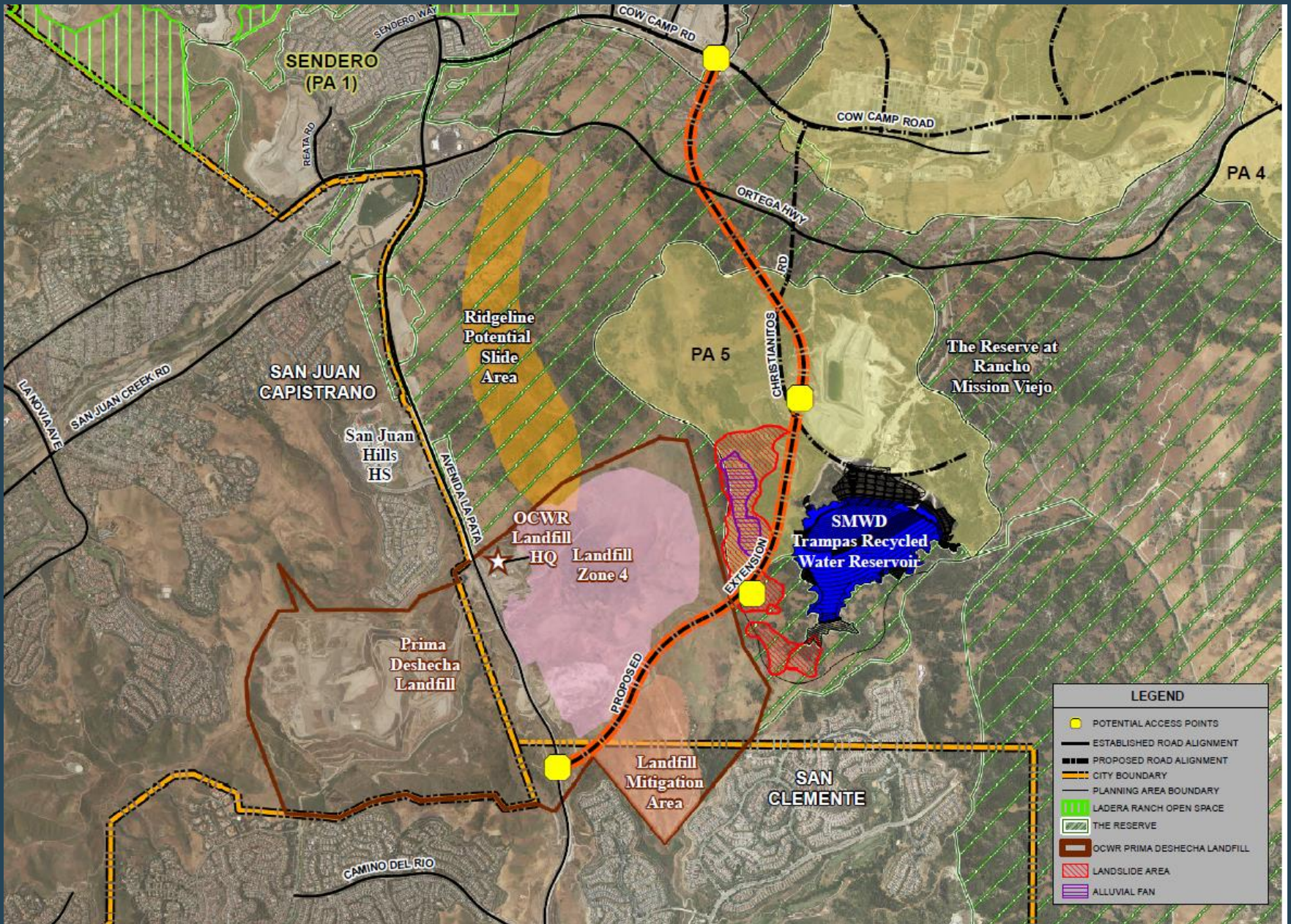
Anticipated
construction:
2023



Anticipated
completion:
2027

- Close a 2.7-mile gap along the 66 mile-OC Loop
- Increase opportunities for pedestrian and bicycle transportation

LOS PATRONES PARKWAY EXTENSION



LEGEND	
	POTENTIAL ACCESS POINTS
	ESTABLISHED ROAD ALIGNMENT
	PROPOSED ROAD ALIGNMENT
	CITY BOUNDARY
	PLANNING AREA BOUNDARY
	LADERA RANCH OPEN SPACE
	THE RESERVE
	OCWR PRIMA DESHECHA LANDFILL
	LANDSLIDE AREA
	ALLUVIAL FAN

Los Patrones Parkway Extension Project

Construction cost:
~ \$200 million

Upcoming
PAED & Design
RFP

- 4.1 miles long roadway extension connecting existing Los Patrones Parkway Extension to Avenida La Pata.
- 2 lanes in each direction

SILVERADO AND MODJESKA CANYON ROAD BRIDGES

Construction FY	Project Name	Construction Cost
21-22	Silverado Canyon Road Bridge (55C0175) Replacement	\$3.9M
22-23	Silverado Canyon Road Bridge (55C0174) Replacement	\$2.2M
22-23	Silverado Canyon Road Bridge (55C0177) Replacement	\$2.4M
22-23	Modjeska Canyon Road Bridge (55C0172) Replacement	\$2.8M



Annual Projects

Project
ADA Upgrades
Guardrail Projects
Sidewalk Gap Closure
Street Drainage
Traffic Management Center
Traffic Signal Upgrades
O&M Maintenance Improvement Program (Flood)
O&M Maintenance Improvement Program (Road)
Flood On-going Mitigation
Bridge Maintenance
Pavement Maintenance
Road On-going Mitigation

Construction Contracts

- **Job Order Contracts (JOC)**
 - One-year, non-renewable contracts
- **Design Bid Build (DBB)**
- **Design-Build (DB)**
- **Construction Manager at Risk (CMAR)**

A-E Contracts

Qualified Vendor List (QVL)

- Each discipline will generate a QVL
- \$200,000 contract(s) per agency per year per firm

On-Call Contracts

- Based on projected usage, a select number of the highest ranking firms will be awarded larger On-Call Contracts
- \$500,000 to \$2.5M contracts, varies by discipline
- 3-year terms with the option to renew for an additional 2 years

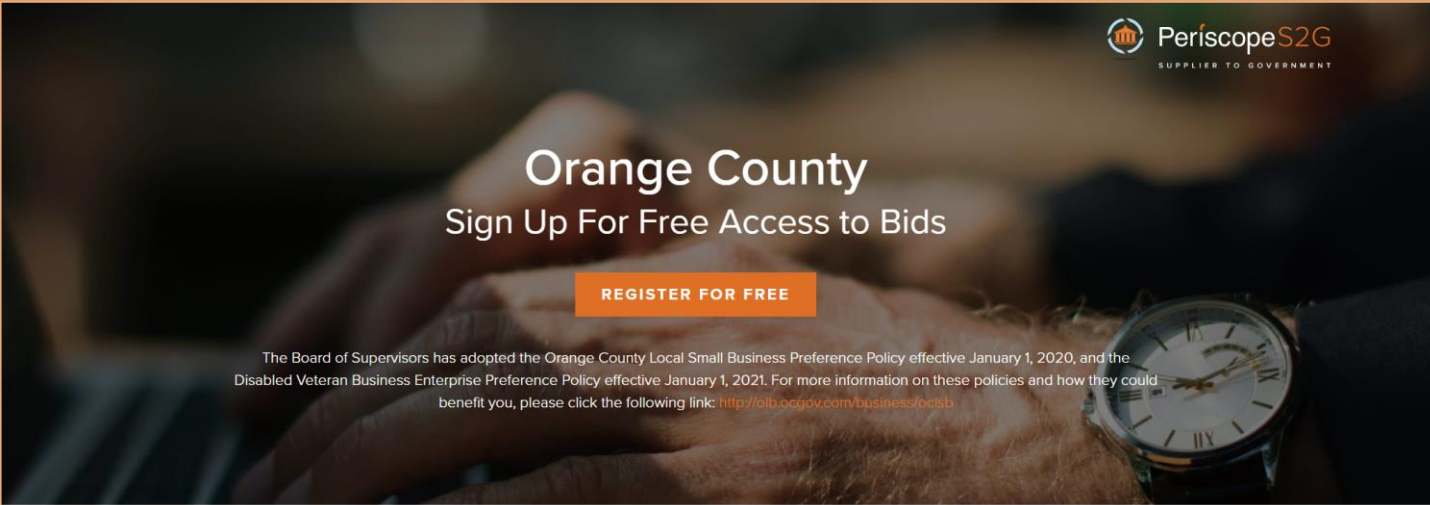

Where to Find Projects

<https://OCPublicWorks.com> > *Hover over* **OCPW** > *Click* **Capital Improvement Program**

The screenshot shows the OC Public Works website. The header includes the logo and navigation links: OCPW, SERVICE AREAS, HOW DO I?, NEWS, MYOCESERVICES, and CONTACT. A search icon is in the top right. The left sidebar contains a menu with items: About, History, Organization Chart, Department Accomplishments, OC Public Works Standard Plans, Design and Construction Policy Manual, **Capital Improvement Program** (highlighted), and Orange County Civic Center Authority. The main content area features the title "7-YEAR CAPITAL IMPROVEMENT PROGRAM" and a sub-header "OC Public Works Road, Bridge, Flood, and Bikeway Projects and OC Community Resources Library and Parks Projects". A note states: "Note: The expenditures for all projects may be re-evaluated when a more concrete understanding of impacts to revenue and funding resulting from the state and local orders to limit the spread of COVID-19 is available." Below this is the section "Fiscal Years 2021/22—2027/28" with a red box highlighting the links: "Project List" and "Architectural - Engineering Design Qualified Vendor List Disciplines". Underneath is the "Interactive Maps" section with the text "Browse projects by category and district in our online maps." and a list of categories: "Road, Bridge, Flood and Bikeway Projects" (OC Public Works), "Library and Parks Projects" (OC Community Resources), and "All CIP projects currently in construction".

Registration!

CPO.ocgov.com/ > **Click Vendor Registration**



Orange County Sign Up For Free Access to Bids

REGISTER FOR FREE

The Board of Supervisors has adopted the Orange County Local Small Business Preference Policy effective January 1, 2020, and the Disabled Veteran Business Enterprise Preference Policy effective January 1, 2021. For more information on these policies and how they could benefit you, please click the following link: <http://alb.ocgov.com/business/octsb>

Orange County has partnered with Periscope S2G to provide web-based bidding services to their suppliers. To do business with Orange County you can register for a free Periscope S2G Limited account.

If you are interested in seeing bids from over 90,000 government agencies across the US subscribe to a Periscope S2G Premium Account.

SHOW ME HOW TO GET MORE BIDS

prod.bidsync.com/orange-county



QUESTIONS?

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- **Joseph Sly**

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