Orange County "At a Glance"

- **Population**: over 3 million persons
- **Total Land Area**: approx. 798 sq. miles
- **Maintenance Area**: approx. 277 sq. miles
- **Roadways**: 326 miles & 463 contract miles
- **Flood Control Facilities**: 380 miles
- **Maintain 4 Dams & 7 Pump Stations**
- **5 Supervisorial Districts**
OC Public Works Organizational Structure

Director

- Strategic Comm. Officer
- Assistant Director
- Assistant Director/County Engineer
- HR Manager

Sub-Departments:
- Administrative Services
- Fleet Services
- Facilities Design & Construction
- Facilities Maint. & CUF
- Development Services
- Infrastructure Programs
- Operations & Maintenance
- Survey
- Construction
- Environmental Resources

Pie Chart:
- Facilities O&M/CUF: 10%
- Fleet Services: 9%
- Operations & Maint (Eng): 16%
- Construction: 9%
- Infrastructure: 11%
- Survey: 9%
- Development Services: 8%
- Env. Resources: 10%
- Admin Services: 10%
- Director's Office: 1%
“Plan the Work, Work the Plan”

- Budget by:
  - Fiscal year
  - Project / Funding source
  - Project phase (Pre-design, Design, Construction)
  - Business unit (Project Management, Survey, Construction Management, Design, etc.)
CIP Information Currently Available

7-Year CIP Now Online

• Website: OCpublicworks.com
Our mission
Protect and enrich the community through efficient delivery and maintenance of public works infrastructure, planning, and development services.

Our vision
Provide excellent, innovative, and professional public works projects and services to our community.

Our values
Integrity, Accountability, Service and Trust.

EVENTS

September 13, 2017
1:30 PM
- OC Planning Commission
  All Planning Commission Hearings are scheduled to be held at 1:30pm, on the second (2nd) and fourth (4th) Wednesday of each month at the Hall of Administration Building, 333 W. Santa Ana Blvd. Santa Ana, CA 92702, 1st Floor, Planning Commission Room, unless otherwise notified.

September 20, 2017
1:30 PM
- OC Subdivision Committee
  All Subdivision Committee hearings are scheduled to be held at 1:30 pm, every first and third Wednesday of each month at the County of Orange, H.G. Osborne Building, 300 North Flower Street, Room B 10, Santa Ana, CA 92703, unless no items are scheduled to be heard.
7-Year Capital Improvement Program, FY 2018-19 to FY 2024-25:
Roadway Projects, Flood Control Projects & Bikeway Projects

This presentation will illustrate Construction Projects on the 7-Year Capital Improvement Program, as well as currently budgeted and future planned Capital Improvement Projects throughout Orange County.

1st District:

ANNUAL MAINTENANCE OR GENERAL MISCELLANEOUS PROJECTS (ALL DISTRICTS):
- Road Maintenance with StreetSaver Requirements (Annual)
- Unincorporated Areas, Various Locations
- Preserve and/or rehabilitate pavement
- Total Project Cost Estimate for All Districts is $17,143,662
- ADA (Americans with Disabilities Act) (Unincorporated Areas, Various Locations)
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September 14, 2017
8:30 AM
› Development Processing Review Committee
All DPRC meetings are scheduled to be held from 8:30 am to 10:00 am, on the second (2nd) Thursday of each month at the County of Orange, H.G. Osborne Building, 300 North Flower Street, 8th Floor, Conference Room 808, Santa Ana, CA 92703, unless otherwise notified.

September 20, 2017
10:30 AM
› OC Subdivision Committee
All Subdivision Committee hearings are scheduled to be held at 1:30 pm, every first and third Wednesday of each month at the County of Orange, H.G. Osborne Building, 300 North Flower Street, Room B 10, Santa Ana, CA 92703, unless no items are scheduled to be heard.
## CIP Detailed Information

### 7-Year Capital Improvement Program

**FY 2018-19 to FY 2024-25**

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First District
Supervisor Andrew Do

CIP Projects, Fiscal Years 2018-2019
1. Hazard Bikeway
2. I-405 Widening Ocean View Channel Segment Improvements

CIP Projects, Fiscal Years 2020-2021 through 2024-2025
3. Newland Street Pavement Rehabilitation
4. Santa Ana Gardens Channel Phase 2
5. Santa Ana Gardens Channel Phase 3
6. Santa Ana Gardens Channel Phase 4
7. East Garden Grove-Wintersburg Channel
8. East Garden Grove-Wintersburg Channel
9. East Garden Grove-Wintersburg Channel (Bushard St to McFadden Ave / Brookhurst St)
10. East Garden Grove-Wintersburg Channel (McFadden Ave / Brookhurst St to Ward St)

Flood Channels
- Orange: Projects Fiscal Year 2018 - 2019
- Green: Projects Fiscal Year 2020 - 2021
- Blue: Projects Fiscal Year 2021 - 2022
- Purple: Projects Fiscal Year 2022 - 2023
- Red: Projects Fiscal Year 2023 - 2024
- Magenta: Projects Fiscal Year 2024 - 2025
**I-405 Widening-Ocean View Channel Segment Improvements (FY 2018-2019)**

**What:** Improve capacity by adding two elliptical pipes under Interstate 405 (a cooperative project between Orange County Transportation Authority and Orange County Flood Control District)

**Location:** Upstream and downstream of Interstate 405 in Fountain Valley

**Total Project Cost Estimate:** $10,362,800

**Total Construction Cost Estimate:** $7,450,000

**OCPW FY 2018-2019 Contribution:** $3,000,000

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**Hazard Avenue Improvement Project (FY 2018-2019)**

**What:** Construct new class IV (on-road protected) paved bikeway

**Location:** Goldenwest Street to Euclid Street

**Total Project Cost Estimate:** $6,461,000

**Total Construction Cost Estimate:** $4,000,000

**OCPW FY 2018-2019:** $2,000,000
Second District  
Supervisor Michelle Steel

CIP Projects, Fiscal Years 2018-2019 and 2019-2020
1. East Garden Grove - Wintersburg Channel
2. Edinger Avenue Bridge Replacement
3. Southern California Edison Easement Bikeway (City of Fountain Valley is the Lead Agency)
4. Santa Ana Avenue Storm Drain Improvements and Landscaping
5. Santa Ana-Delhi Channel

CIP Projects, Fiscal Years 2020-2021 through 2024-2025
6. East Garden Grove - Wintersburg Channel
7. Paularino Channel Class I Bikeway
Capital Improvement Program – Second District

**PROJECT HIGHLIGHT**

**Edinger Bridge Replacement (FY 2017-2018)**

*What:* Replace and widen the previous timber bridge with a precast concrete bridge, upgrade barrier railing, increase the clearance for projected flood water elevations in the Bolsa Chica Channel, and ensure a life expectancy of 75 years.

*Location:* Huntington Beach and Seal Beach

*Project Award Price:* $14,430,599
Edinger Avenue Bridge Replacement (FY 2018-2019)

What: Replace and widen the previous timber bridge with a precast concrete bridge, upgrade barrier railing, increase the clearance for projected flood water elevations in the Bolsa Chica Channel, and ensure a life expectancy of 75 years.

Location: Over the Bolsa Chica Channel in the Cities of Huntington Beach and Seal Beach

Total Project Cost Estimate: $24,000,000
Total Construction Cost Estimate: $16,000,000
OCPW FY 2018-2019 Construction Total: $8,500,000
Southern California Edison Easement Bikeway (FY 2018-2019)

**What:** Construct four signal-controlled crossings to connect existing lengths of a class I (off-road) paved bikeway along a Southern California Edison transmission line corridor. The City of Fountain Valley is the lead agency.

**Location:** Garfield Avenue to Warner Avenue

**Total Project Cost Estimate:** $1,250,000

**OCPW FY 2018-2019 Contribution Total:** $1,000,000

Santa Ana Avenue Storm Drain Improvements and Landscaping (FY 2019-2020)

**What:** Reconstruct storm drain catch basin to accommodate ADA access ramps, and construct a neighborhood park facility

**Location:** At the intersection of Santa Ana Avenue and Del Mar Avenue/University Drive, City of Costa Mesa

**Total Project Cost Estimate:** $1,793,500

**Total Construction Cost Estimate:** $1,000,000
East Garden Grove-Wintersburg Channel (FY 2018-2019)

What: Reconstruct existing trapezoidal channel to a rectangular channel with an earthen bottom, allowing channel reach to convey a 100-year storm event.

Location: From upstream of Warner Avenue to 1,200 ft downstream of Goldenwest Street (Diane Lane), in the City of Fountain Valley

Total Project Cost Estimate: $26,230,100
Total Construction Cost Estimate: $22,000,000

Santa Ana-Delhi Channel (FY 2019-2020)

What: Widen portions of the channel to create additional habitat area, restore channel slopes and replace existing bicycle bridge to allow continued coastal access.

Location: From Bayview Bridge to Mesa Drive in the City of Newport Beach

Total Project Cost Estimate: $21,635,000
Total Construction Cost Estimate: $16,000,000
Third District
Supervisor Todd Spitzer

CIP Projects, Fiscal Years 2018-2019 and 2019-2020

1. Barranca Channel (Phase I)
2. Lane Channel
3. Live Oak Canyon Road and Trabuco Canyon Road Safety Improvements
4. San Diego Creek Channel Sediment Removal
5. Santiago Canyon Road Master Plan of Arterial Highways Mitigation Project
6. Santiago Canyon Road Safety Improvements
7. Santa Ana River Interceptor Line Pipe Severing Project
8. Collins Avenue & Eckhoff Street Cul-de-Sac Improvements
9. El Cajon Channel Bikeway (OC Loop Segment H)
10. Silverado Canyon Road Bridge Replacement

CIP Projects, Fiscal Years 2020-2021 through 2024-2025

11. Borrego Wash Class I Bikeway (Portion in 3rd District)
12. El Cajon Channel Bikeway (OC Loop Segment D) (Portion in 4th District)
13. Modjeska Canyon Road Bridge Replacements
14. Modjeska Grade Road, Road & Drainage Improvement (Segment 1)
15. Olive Heights Sidewalk Gap Closure
16. Peters Canyon Bikeway Extension
17. Silverado Canyon Road Bridge Replacement
18. Silverado Canyon Road Bridge Replacement
19. Trabuco Creek Road Stabilization (Portion in 3rd District)
20. Trabuco Canyon Bridge Replacement
21. Foothill Boulevard, Old Foothill Boulevard, Fairhaven Avenue, Hewes Avenue, Fowler Avenue Sidewalk Improvements
22. Fairhaven Avenue Road and Drainage Improvements
23. Meads Avenue Bridge and Amapola Avenue Bridge Replacements
24. Modjeska Grade Road, Road and Drainage Improvement (Segment 2)
25. Santiago Canyon Road Passing Lanes
26. El Toro Road Master Plan of Arterial Highways Reclassification Study and Widening Project (Portion in 5th District)
Capital Improvement Program – Third District

Live Oak Canyon Road and Trabuco Canyon Road Safety Improvements (FY 2018-2019)

What: Grade, stabilize, and pave existing shoulders, install overlay pavement with high-friction surface treatment, replace and install metal beam guard rails, install rumble strips and upgrade signs.

Location: From El Toro Road and Santiago Canyon Road intersection in Trabuco Canyon to the City of Rancho Santa Margarita boundary

Total Project Cost Estimate: $5,660,680
Total Construction Cost Estimate: $3,064,675
OCPW FY 2018-2019 Contribution Total: $360,000

Santiago Canyon Road Master Plan of Arterial Highways Mitigation Project (FY 2018-2019)

What: Reconfigure lane and improve associated streets to enhance capacity at Bake Parkway and Jeronimo Road Intersection due to Santiago Canyon Road reclassification

Location: From SR-241 to North Live Oak Canyon Road

Total Project Cost Estimate: $5,000,000
OCPW 2018/19 Contribution Total: $2,000,000
San Diego Creek Channel Sediment Removal (FY 2018-2019)

**What:** Remove sediment from the channel to restore the channel to its as-built condition

**Location:** From I-405 near Jamboree Road to I-405 near SR-133

**Total Project Cost Estimate:** $4,400,000

**Total Construction Cost Estimate:** $4,200,000

Santiago Canyon Road Safety Improvements (FY 2018-2019)

**What:** Install high friction surface treatment at turns, install flashing beacons, delineators, reflectors and rumble strips, upgrade signs, and paint a buffer zone to enhance bicycle safety

**Location:** From SR-241 in Orange to North Live Oak Canyon Road in Trabuco Canyon

**Total Project Cost Estimate:** $3,805,460

**Total Construction Cost Estimate:** $2,374,460
Capital Improvement Program – Third District

Santa Ana River Interceptor Line Pipe Severing Project (FY 2018-2019)

**What:** Complete the remaining pipe abandonment process by severing the pipeline on five river crossing locations
**Location:** From Weir Canyon Road to Green River Golf Club
**Total Project Cost Estimate:** $1,590,000
**Total Construction Cost Estimate:** $1,500,000

Lane Channel (Phase 1) (FY 2018-2019)

**What:** Stabilize earthen trapezoidal channel with geocells and restore the channel to its as-built condition
**Location:** From upstream of Jamboree Road to downstream of Main Street, in the City of Irvine
**Total Project Cost Estimate:** $11,999,000
**Total Construction Cost Estimate:** $9,000,000
**OCPW 2018/19 Contribution Total:** $2,000,000
Capital Improvement Program – Third District

Barranca Channel (FY 2018-2019)

What: Repair eroded earthen channel slopes and improve the facility's rating for inclusion into the U.S. Army Corps of Engineers PL 84-99 program.

Location: From upstream of Jamboree Road to downstream of Barranca Parkway, in the City of Irvine.

Total Project Cost Estimate: $3,570,000
Total Construction Cost Estimate: $2,800,000
OCPW FY 2018-2019 Contribution Total: $500,000

Collins Avenue & Eckhoff Street Cul-de-Sac Improvements (FY 2019-2020)

What: Improve Eckhoff Street and Collins Avenue to full, standard cul-de-sacs.

Location: Collins Avenue - Eckhoff Street to westerly cul-de-sac and Eckhoff Street - Collins Avenue to northerly cul-de-sac.

Total Project Cost Estimate: $606,000
Total Construction Cost Estimate: $300,000
Silverado Canyon Road Bridge Replacement (FY 2019-2020)

**What:** Replace bridge over Ladd Creek due to structural deficiency and low sufficiency rating per Caltrans Bridge Inspection Reports

**Location:** Over Ladd Canyon Creek

**Total Project Cost Estimate:** $2,366,300

**Total Construction Cost Estimate:** $1,115,800

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El Cajon Channel Bikeway (OC Loop Segment H) (FY 2019-2020)

**What:** Construct class I, II, III and IV bikeways (off-road, on-road striped, on-road shared and on-road protected, respectively)

**Location:** Yorba Linda Recreational Trail to Santa Ana River Trail

**Total Project Cost Estimate:** $3,255,500

**Total Construction Cost Estimate:** $2,400,000
CIP Projects, Fiscal Years 2018-2019 and 2019-2020

1. Gilbert Street Improvements at Railroad Crossing (Phase 2)
2. Southwest Anaheim Sidewalk Improvements
3. Brookhurst Street Road and Sidewalk Improvements

CIP Projects, Fiscal Years 2020-2021 through 2024-2025

4. Brea Canyon Road at Tonner Canyon Road Intersection Improvements
5. Carbon Creek Channel
6. El Cajon Channel Bikeway (OC Loop Segment D) (Portion in 3rd District)
7. Brea Boulevard/Brea Canyon Road Widening
8. Carbon Creek Channel
9. Coyote Creek Channel (OC Loop Segment O)
10. Coyote Creek Channel (OC Loop Segment P)
11. Coyote Creek Channel (OC Loop Segment Q)
12. Yorba Linda Boulevard Raised Median
13. Fullerton Creek Channel
14. Houston Storm Channel Deficient Culvert Crossings
Gilbert Street Improvements at Railroad Crossing (Phase 2) (FY 2018-2019)

What: Enhance safety at railroad crossing by constructing raised medians and improving sidewalks and the curb ramp

Location: From Katella Avenue to Ball Road at Union Pacific Railroad crossing by Pacific Place, in the City of Anaheim

Total Project Cost Estimate: $1,100,000
Total Construction Cost Estimate: $500,000
Southwest Anaheim Sidewalk Improvements (FY 2019-2020)

What: Construct sidewalk and ADA improvements
Location: Various streets in unincorporated Anaheim
Total Project Cost Estimate: $4,011,000
Total Construction Cost Estimate: $2,663,000
Brookhurst Street and Sidewalk Improvements (FY 2019-2020)

What: Construct an additional southbound lane to improve traffic flow

Location: Brookhurst Street from Cerritos Avenue to Ball Road, in the City of Anaheim

Total Project Cost Estimate: $2,715,000

Total Contribution Cost Estimate: $2,400,000

OCPW FY 2018-2019 Contribution Total: $1,300,000
Capital Improvement Program – Fifth District

Fifth District
Supervisor Lisa Bartlett

CIP Projects, Fiscal Years 2018-2019
1. Cow Camp Road Segment 2
2. Laguna Audubon Retention Basin Improvement Project
3. Oso Parkway Bridge Project
4. Prima Deshecha Canada Channel Maintenance and Remediation
5. Metrolink Bikeway and Trail Underpass Project

CIP Projects, Fiscal Years 2019-2020 through 2024-2025
6. Borrego Wash Class I Bikeway (Portion in 3rd District)
7. Laguna Canyon Road, Road Improvements (Segment 4)
8. San Juan Creek Channel (Phase 1)
9. Surfside Inn Pedestrian Bridge Replacement (Phase 2)
10. Trabuco Creek Road Stabilization (Portion in 3rd District)
11. Antonio Parkway & Crown Valley Parkway Rehabilitation
12. Cow Camp Road (Segment 1) Southside
13. Trabuco Creek Channel (Phase 8)
14. Avenida Pico Class I Bikeway
15. Segunda Deshecha Channel Class I Bikeway
16. El Toro Road Master Plan of Arterial Highways Reclassification Study and Widening Project (Portion in 3rd District)
Cow Camp Road (Segment 2) (FY 2018-2019)

**What:** Construct extension of Cow Camp Road
**Location:** From Los Patrones Parkway to Ortega Highway, in Rancho Mission Viejo
**Total Project Cost Estimate:** $106,000,000
**Total Construction Cost Estimate:** $100,000,000

Oso Parkway Bridge Project (FY 2018-2019)

**What:** Replace portion of Oso Parkway with a new bridge structure to provide a direct connection between the SR-241 and Los Patrones Parkway
**Location:** Over SR-241, in the City of Rancho Santa Margarita
**Total Project Cost Estimate:** $21,847,178
**Total Construction Cost Estimate:** $17,847,178
Laguna Audubon Retention Basin Improvement Project (FY 2018-2019)

What: Construct perimeter flood wall around the basin and raise the existing height of the flood walls of the open channel outlet structure

Location: Basin southeast of the El Toro Road and SR-73 intersection

Project Cost Estimate: $945,000
Construction Cost Estimate: $500,000

Prima Deshecha Canada Channel Maintenance and Remediation (FY 2018-2019)

What: Remove the temporary shoring systems and perform repairs within the reinforced concrete box

Location: From downstream El Camino Real to upstream of Avenida Vaquero, in the City of San Clemente

Project Cost Estimate: $9,410,000
Total Construction Cost Estimate: $7,500,000
OCPW FY 2018-2019 Contribution Total: $7,000,000
Metrolink Bikeway and Trail Underpass Project (FY 2018-2019)

**What:** Construct a grade-separated undercrossing to accommodate maintenance vehicle access and possibly a future class I (off-road, paved) bikeway

**Location:** San Juan Creek Channel and the Metrolink Railway downstream of Camino Capistrano, in the City of San Juan Capistrano

**Total Project Cost Estimate:** $2,000,000

**Total Construction Cost Estimate:** $1,774,000
ALL DISTRICTS
Fiscal Years 2020/21 - 2024/25

First District

Newland Street Pavement Rehabilitation (FY 2020-2021)
What: Reconstruct pavement
Location: Newland Street to Sandalwood Street
Project Cost Estimate: $1,885,100

Santa Ana Gardens Channel (Phase 2) (FY 2021-2022)
What: Extend an existing class I (off-road) bikeway
Location: Monte Vista Avenue to Willits Street
Project Cost Estimate: $1,460,500

Santa Ana Gardens Channel (Phase 3) (FY 2021-2022)
What: Extend an existing class I (off-road) bikeway
Location: Willits Street to Myrtle Street
Project Cost Estimate: $978,500

Santa Ana Gardens Channel (Phase 4) (FY 2021-2022)
What: Extend an existing class I (off-road) bikeway
Location: Myrtle Street to First Street
Project Cost Estimate: $1,411,000

East Garden Grove - Wintersburg Channel (FY 2022-2023)
What: Reconstruct existing channel
Location: Upstream of Beach Boulevard to downstream of Woodruff Street
Project Cost Estimate: $14,649,600

Second District

East Garden Grove - Wintersburg Channel (FY 2021-2022)
What: Reconstruct existing channel
Location: Confluence with Ocean View Channel to Beach Boulevard including under crossing
Project Cost Estimate: $14,697,700

Paularino Channel Class 1 Bikeway (FY 2023-2024)
What: Construct class I (off-road) bikeway on an existing OCFCID channel maintenance road
Location: Fairview Road to Bristol Street
Project Cost Estimate: $5,175,000

Third District

Modjeska Canyon Road Bridge Replacement (FY 2020-2021)
What: Replace bridge
Location: Modjeska Canyon Road
Project Cost Estimate: $4,222,500

Silverado Canyon Road Bridge Replacement (FY 2020-2021)
What: Replace bridge
Location: Over Silverado Canyon Creek
Project Cost Estimate: $3,050,000

Silverado Canyon Road Bridge Replacement (FY 2020-2021)
What: Replace bridge
Location: Over Silverado Canyon Creek
Project Cost Estimate: $2,675,700

Olive Heights Sidewalk Gap Closure (FY 2020-2021)
What: Remove and reconstruct pavement, construct ADA sidewalk, driveways, small retaining walls, and curb ramps and upgrade signs
Location: City of Orange
Project Cost Estimate: $2,250,000

Borrego Wash Class I Bikeway (Portion in 5th District) (FY 2020-2021)
What: Construct class I (off-road) bikeway
Location: Alton Parkway & Commencement Drive to Irvine Train Station
Project Cost Estimate: $6,176,000

East Garden Grove - Wintersburg Channel (FY 2023-2024)
What: Reconstruct existing channel
Location: Upstream of Quartz Street to downstream of Bushard Street
Project Cost Estimate: $29,100,000
Third District Continued

El Cajon Channel Bikeway (OC Loop Segment D) (Portion in 4th District) (FY 2020-2021)
What: Construct class I (off-road) bikeway
Location: Bastanchury Road to Imperial Highway
Project Cost Estimate: $9,957,000

Trabuco Creek Road Stabilization (Portion in 5th District) (FY 2020-2021)
What: Reconstruct existing dirt road and construct roadway drainage system
Location: Trabuco Canyon Road to Cleveland National Forest
Project Cost Estimate: $8,425,000

Peters Canyon Bikeway Extension (FY 2020-2021)
What: Construct class I (off-road) bikeway
Location: Along east side of Jambooree Road from Canyon View Avenue to Portola Parkway
Project Cost Estimate: $7,989,300

Trabuco Canyon Bridge Replacement (FY 2021-2022)
What: Remove the existing box culvert bridge and replace with a wider concrete bridge that will span the full width of the creek on a raised roadway profile
Location: Over Trabuco Creek Channel
Project Cost Estimate: $8,062,100

Foothill Boulevard, Old Foothill Boulevard, Fairhaven Avenue, Hewes Avenue, Fowler Avenue Sidewalk Improvements (FY 2022-2023)
What: Construct sidewalk
Location: North Tustin
Project Cost Estimate: $3,472,500

Modjeska Grade Road, Road, and Drainage Improvement (Segment 2) (FY 2023-2024)
What: Reconstruct pavement and install a new storm drain system
Location: Santiago Canyon Road to Canyon Heights Drive
Project Cost Estimate: $8,789,000

Fairhaven Avenue Road and Drainage Improvements (FY 2023-2024)
What: Construct sidewalk and curb and gutter to provide a separated continuous paved walkway
Location: South Esplanade Street to Old Foothill Boulevard
Project Cost Estimate: $4,626,000

Meads Avenue Bridge and Amapola Avenue Bridge Replacements (FY 2023-2024)
What: Replace both bridges with new slab bridges
Location: Handy Creek Storm Channel
Project Cost Estimate: $6,810,800

Santiago Canyon Road Passing Lanes (FY 2023-2024)
What: Install passing lanes to increase traffic flow and improve vehicle safety
Location: SR-241 to North Live Oak Canyon Road
Project Cost Estimate: $26,670,000

El Toro Road MPAAH Reclassification Study and Widening Project (Portion in 5th District) (FY 2024-2025)
What: Widen El Toro Road and reconstruct class I (off-road) bikeway along Aliso Creek
Location: Glenn Ranch Road to Live Oak Canyon Road
Project Cost Estimate: $17,006,000

Fourth District

Brea Canyon Road at Tonner Canyon Road Intersection Improvements (FY 2020-2021)
What: Improve intersection by installing a traffic signal, dual northbound right-turn lanes, raised medians, widening shoulders and relocating fixed objects
Location: Intersection of Brea Canyon Road and Tonner Canyon Road
Project Cost Estimate: $11,248,000

Carbon Creek Channel (FY 2020-2021)
What: Reconstruct existing channel
Location: Upstream of Western Avenue to Dale Avenue
Project Cost Estimate: $29,529,350

Brea Boulevard/Brea Canyon Road Widening (FY 2021-2022)
What: Widen roadway and replace three bridges
Location: Canyondale Drive to the Los Angeles County line
Project Cost Estimate: $60,721,800

Carbon Creek Channel (FY 2021-2022)
What: Gilbert Street to Euclid Street improvements
Location: Gilbert Street to Euclid Street
Project Cost Estimate: $32,912,800

Coyote Creek Channel (OC Loop Segment O) (FY 2021-2022)
What: Construct class I (off-road) paved bikeway
Location: North Fork Trail to Artesia Boulevard
Project Cost Estimate: $6,815,000

Yorba Linda Boulevard Raised Median (FY 2022-2023)
What: Construct raised medians
Location: Kilt Avenue to McCormack Lane
Project Cost Estimate: $1,524,800
### Fourth District (Continued)

<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
<th>Location</th>
<th>Total Project Cost Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coyote Creek Channel (OC Loop Segment P) (FY 2022/23)</td>
<td>What: Construct class I (off road) paved bikeway</td>
<td>Artesia Boulevard to Knott Avenue</td>
<td>$7,970,000</td>
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<tr>
<td>Coyote Creek Channel (OC Loop Segment Q) (FY 2022/23)</td>
<td>What: Construct class I (off road) paved bikeway</td>
<td>Knott Avenue to La Mirada Boulevard</td>
<td>$8,065,700</td>
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<td>Fullerton Creek Channel (FY 2023/24)</td>
<td>What: Reconstruct existing channel</td>
<td>Downstream of I-5 freeway to downstream of Dale Avenue</td>
<td>$14,743,000</td>
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<tr>
<td>Houston Storm Channel (FY 2023/24)</td>
<td>What: Improve various deficient box culverts to increase capacity to a 100 year storm event</td>
<td>Confluence with Fullerton Creek Channel to Brookhurst Street</td>
<td>$4,390,000</td>
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### Fifth District

<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
<th>Location</th>
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<tbody>
<tr>
<td>Laguna Canyon Road, Road Improvements (Segment a) (FY 2020/21)</td>
<td>What: Widen shoulder and construct drainage improvements</td>
<td>El Toro Road to SR-73</td>
<td>$15,604,000</td>
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<tr>
<td>Surfside Inn Pedestrian Bridge Replacement Phase 2 (FY 2020/21)</td>
<td>What: Remove bridge over OCTA/Metrolink tracks and construct a new bridge with elevators</td>
<td>Antonio Parkway to Los Patrones Parkway</td>
<td>$7,742,300</td>
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<tr>
<td>San Juan Creek Channel (Phase 1) (FY 2020/21)</td>
<td>What: Increase channel capacity</td>
<td>Ocean Outlet to I-5 Freeway and confluence of Del Obispo Channel</td>
<td>$40,066,500</td>
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<td>Antonio Parkway &amp; Crown Valley Parkway Rehabilitation (FY 2021/22)</td>
<td>What: Reconstruct pavement</td>
<td>Antonio Parkway and Crown Valley Parkway</td>
<td>$750,000</td>
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</table>

### Trabuco Creek Channel (Phase 8) (FY 2022/23)
- **What**: Drive steel sheet piles along the top of the embankment
- **Location**: Downstream and upstream of Del Obispo Street
- **Total Project Cost Estimate**: $14,654,000

### Cow Camp Road Phase 1C (Segment 1) Southside (FY 2022/23)
- **What**: Construct segment 1 of the roadway
- **Location**: Antonio Parkway to Los Patrones Parkway
- **Total Project Cost Estimate**: $30,000,000

### Avenida Pico Class I Bikeway (FY 2023/24)
- **What**: Construct class I (off-road) paved bikeway
- **Location**: Calle Del Cerro to Camino Vera Cruz
- **Total Project Cost Estimate**: $4,390,000

### Segunda Deshecha Channel Class I Bikeway (FY 2023/24)
- **What**: Construct a class I (off-road) paved bikeway
- **Location**: East Avenida Pico to Calle De Los Molinos
- **Total Project Cost Estimate**: $2,634,000

### 7-Year CIP Funding Sources for FY 2018/19 - 2024/25

<table>
<thead>
<tr>
<th>Source</th>
<th>Funding Source</th>
<th>Potential Grants</th>
<th>OC Flood</th>
<th>OC Road</th>
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<tbody>
<tr>
<td>Flood</td>
<td>$411,638,056</td>
<td>$26,600,386</td>
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<tr>
<td>Road/Bridge</td>
<td>$415,720,603</td>
<td>$200,653,691</td>
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<td>Bikeway</td>
<td>$72,442,097</td>
<td>$439,893,056</td>
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<td>TOTAL</td>
<td>$929,800,756</td>
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</table>
La Pata Avenue Extension Project

**What:** Closed the gap between the cities of San Clemente and San Juan Capistrano by constructing a new four-lane divided roadway with class II bike lanes; widened an existing section of La Pata Avenue in San Juan Capistrano; constructed an extension of Camino Del Rio to La Pata Avenue in San Clemente

**Location:** San Juan Capistrano, San Clemente and unincorporated Orange County

**Total Project Cost Estimate:** $140,000,000

**Total Construction Cost Estimate:** $85,700,000
Completed Projects of Fiscal Year 2016-2018

Crawford Canyon Road, Drainage Improvements and Reconstruction

What: With reclassification of Santiago Canyon Road, reconfigure lane and improve associated streets at Bake Parkway and Jeronimo Road intersection as mitigation to enhance capacity

Location: Newport Boulevard in North Tustin to City of Orange Boundary

Total Project Cost Estimate: $6,225,500
Total Construction Cost Estimate: $4,600,000
Completed Projects of Fiscal Year 2016-2018

Surfside Inn Pedestrian Bridge Project
Partial Removal (Phase 1) and Rehabilitation (Phase 2)

What: Demolished span of pedestrian bridge crossing over Pacific Coast Highway and constructed a signalized street-level pedestrian crossing along with various street improvements; performed retrofit rehabilitation to bridge span crossing over railroad corridor

Location: Pacific Coast Highway, in the City of Dana Point

Total Project Cost Estimate: $3,231,578
Total Construction Cost Estimate: $1,796,518
SB1 Project Categories

- Roadway Maintenance
- Safety Improvements
- Bridge Maintenance
- Traffic Signal Upgrades
Trends Impacting OC Public Works

- Funding / New Revenues
- Staffing / New BOS Members
- Deferred Infrastructure
- APDM: CMAR & DB
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