

Archived

Public Works Agency Program & Services



Presentation to CVMAC
March 19, 2018

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2. Transportation Projects and Programs
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7. Overview of Sidewalk & Bike Facilities since 2001

Overview of 2017 Storms

- Received and responded to 380 calls for service
- Logged over 37,000 labor hours in storm response, cleanup & repairs
- Logged over 36,000 equipment hours
- Removed over 38,000 cubic yards of mud/debris from County right-of-ways
- Closed 28 County roads from just a few hours to several days
 - Palomares Road closed from March 2, 2017 through September 22, 2017
 - Redwood Road closed on February 16, 2017; anticipated reopening in April 2018
- **\$11 million** in disaster relief and storm-related clean up, repairs, etc., throughout unincorporated Alameda County



Redwood Road mm 7.38



Tesla Road mm 3.63 slope failure along shoulder

Kilkare Road mile marker 3.07



Calavera Road mile marker 5.37



Mines Road slip-out

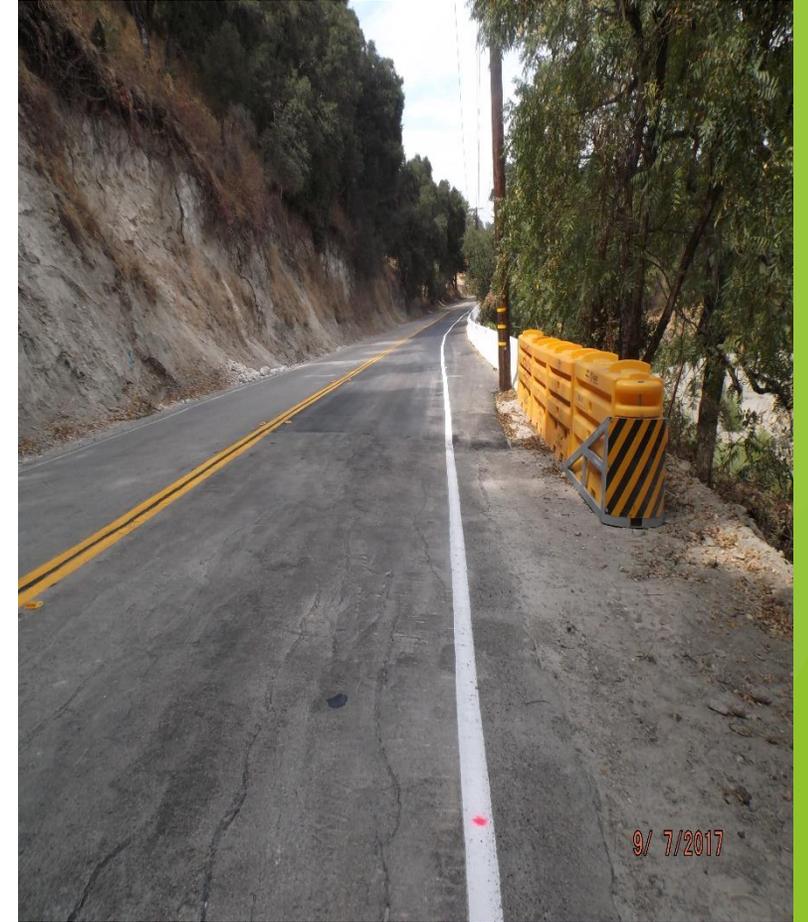




Palomares Road mm 8.73
(before)



Palomares Road mm 8.73 (after)



Foothill Road mm 6.92 slope failure



Cull Canyon and Briar-Ridge, Castro Valley
100-foot Eucalyptus tree fell blocking both lanes of
traffic



Crow Canyon Road, between Greenridge Road and
Norris Canyon Road, Castro Valley. Large Bay tree
fell, taking power lines with it.



Altamont Pass Road Flooding



Crews worked 24/7, often sleeping in a conference room between 14 hour shifts.

Transportation Projects and Programs

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the right side of the slide, creating a modern, layered effect. The text is centered horizontally and positioned in the middle of the slide.

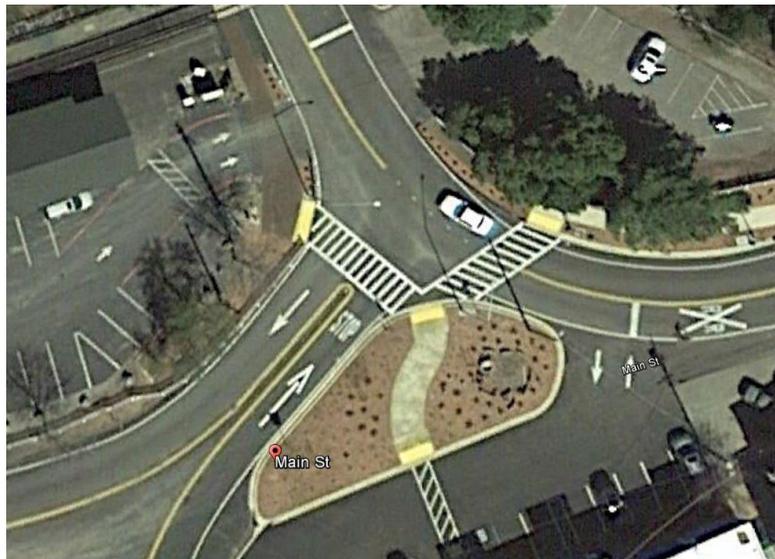
Transportation Projects and Programs

(2014 to Present)

\$72Million

- Safety/Multi-Modal Projects--\$8M
- Pavement Management--\$24M
- Traffic Services and Signals --\$5M
- Safe Routes to School, Sidewalks, Bicycle --\$20M
- Storm Damage, Drainage and Roadside Repairs--\$11M
- Bridges/Structures--\$4.0M

Safety/Multi-Modal Transportation Projects \$8 Million



Kilkare Road at Main Street



Grant Avenue (Bay Friendly Certified)



Patterson Pass Road

Pavement Management

\$22M

- ▶ \$24 M in Overlay and Slurry Seal Projects
- ▶ 66.8 Miles of Streets and Roads Resurfaced
- ▶ Average PCI = 73 (Very Good)



Pavement Rehabilitation (over 150 Streets)

ANO AVENUE
CAMBRIAN DR
CARRIAGE LN
DARYL AVE
EASY ST
EMERY CT
GRAMERCY AVE
KENT AVE
MEEKLAND AVE
PESHEL CT
PROSPERITY WAY
RAFAHI WAY
RANDALL WAY
SANTA ANA ST
SELBOURNE
CARLTON AVE
CULL CANYON RD
GARLAND CT
HUBER DR
HEYER AVE
JOHN DR
KEITH AVE
KINGSTON WAY
MAYFLOWER DR
NATALIE COURT
RAHLVES DR
SEAVIEW AVE
SEPTEMBER CT
WINIFRED DR
WYNDALE CT
WYNDALE DR
MINES RD
APRIL CT
BARCLAY CT
BARLOW CT
BRUSK CT
EMILY CT
JEFFERY CT

MOSSY ROCK DR
URSA WAY
VALLEYBROOK CT
VALLEYBROOK WAY
VIA DEL ROBLES
VIA MANZANAS
NIELSON AVE
CHANNEL ST
VIA LACQUA
CORTE MARIANA
CORTE GERALDO
CORTE YOLANDA
VIA SECO
VIA DEL REY
ROBSCOTT AVE
GINGER AVE
PERKINS AVE
MELROSE AVE
BENGAL AVE
OXFORD AVE
RICARDO AVE
FALGREN AVE
ANITA AVE
CHESTER ST
FOREST AVE
FOXBORO
JEANNIE WAY
JOHN DR
LEROY DR
LUX AVE
MARSHALL ST
NEDRA WAY
NORDELL AVE
PARSONS AVE
SAMSON WAY
SOMERSET AVE
STANTON HILL RD
WEST RIDGE CT
WILBEAM AVE
WISTERIA ST

WOODBINE AVE
WINIFRED AVE
BERTERO AVE
BLANDING CT
BUTTE ST
CLAYTON ST
DEXTER CT
DEXTER WY
ELGIN ST
FRANCONE CT
HENRY LN
MAYVILLE DR
ORION ST
PINNACLES CT
PRIME AVE
SIERRA AVE
STRATTON CT
SUNNYBANK LN
SUNNYBANK PL
UNION AVE
BAYWOOD AVE
BELLE ST
E. CASTRO VALLEY BLVD
EARL DR
JEFFER ST
KAHLERT AVE
KATHLEEN AVE
KIPLING CT
LEILA ST
LAKE CHABOT DR
N. FIFTH ST
ORANGE AVE
OUTLOOK CT
RIVERBANK AVE
RIZZO AVE
VESTAL ST
ARLINGTON DR
BERKSHIRE DR
CAROLYN ST
GRANT AVE

HORNE ST
MANCHESTER RD
MEEKLAND AVE
SELBOURNE
STRANG AVE
W. BLOSSOM WY
WELLINGTON WY
WILLOW CT
WINDSOR CT
WINDSOR DR
VIA MERCADO
CARSON LN
JESSE CT
MOLLIE CT
ASHFIELD AVE
BOXER CT
COSTA DR
EDDY ST
ERNEST CT
GERALDINE CT
GLENN ELLEN DR
HENRY LN
JAMIE WAY
LAKERIDGE AVE
LORI WAY
MATTHEW CT
MONA MARIA CT
SALLY CT
SHANNON CT
SHAWN WAY
SHEILA ST
VIA BUENA VISTA
VIA CHIQUITA
VIA CIELO
VIA CORALLA
VIA DEL REY
VIA HARRIET

VIA KARL
VIA LA JOLLA
VIA MARGARITA CT
VIA MELINA
VIA MILOS
VIA NATAL
VIA OWEN
VIA SARITA
VIA WALTER
ANNIE CT
CENTURY OAKS CT
CLOVERFIELD CT
CRESTFIELD CT
FAIRWEATHER CT
GOLD CREEK DR
GOLD HILLS DR
HOLLOW CANYON CT
OAKCREST DR
PACIFIC TERRACE CT
RANCHO PALOMARES PL
S. GOLD RIDGE DR
SILVER BIRCH DR
SILVER CANYON CT
GREENVILLE RD
ADAIR DR
ALTA MIRA CT
ALVERTUS AVE
CAMINO ALTA MIRA
CARLEEN CT
CARLEEN DR
ELROD DR
HALEY DR
LENARD DR
MANCINI DR
MICHEALS CT
SANDY RD
SUMMIT CT

Safe Routes / Sidewalk to School \$15 M



Maud Avenue



Orange Avenue



Haviland Avenue



162nd Avenue



Christensen Lane

\$5M Traffic and Transportation Services



Speed Humps

- ▶ Circle Avenue
- ▶ Watson Street
- ▶ Via Annette
- ▶ Idena Avenue
- ▶ Vegas Avenue
- ▶ Via Chiquita
- ▶ Pine Street
- ▶ Aspen Street
- ▶ Marcella Street
- ▶ Orange Avenue
- ▶ Via Frances
- ▶ Paseo Grande
- ▶ Tracy Street
- ▶ Via Media



Speed Display Signs

- ▶ Second Street
- ▶ Foothill Road
- ▶ Sheridan Road
- ▶ Grant Avenue
- ▶ Five Canyons Parkway
- ▶ Grove Way
- ▶ Tesla Road*
- ▶ Patterson Pass Road
- ▶ Palomares Road
- ▶ Happy Valley Road
- ▶ D Street



Flashing Beacons at Crosswalks

- 162nd Avenue
- Redwood Road
- Royal Avenue
- Five Canyons Parkway (3)
- Grove Way
- Redwood Road
- Lake Chabot Road
- Paseo Grande
- Blossom Way
- Center Street
- Heyer Avenue
- Miramar Avenue
- A Street

\$5 M Bike Facility Installation

Bicycle Facilities Installed

- Grant Ave Class III Bike Route
- Via Alamosos Class III Bike Route
- Paseo Grande Class III Bike Route
- Heyer Ave Class III Bike Route
- Redwood Rd Class III Bike Route
- Foothill Boulevard Buffered Bike Lane
- Kelly St Class III Bike Route
- Mattox Road Class II Bike Lane
- Fairmont Drive Buffered Bike Lane
- Grove Way Buffered Bike Lane



Ashland Avenue



Foothill Boulevard

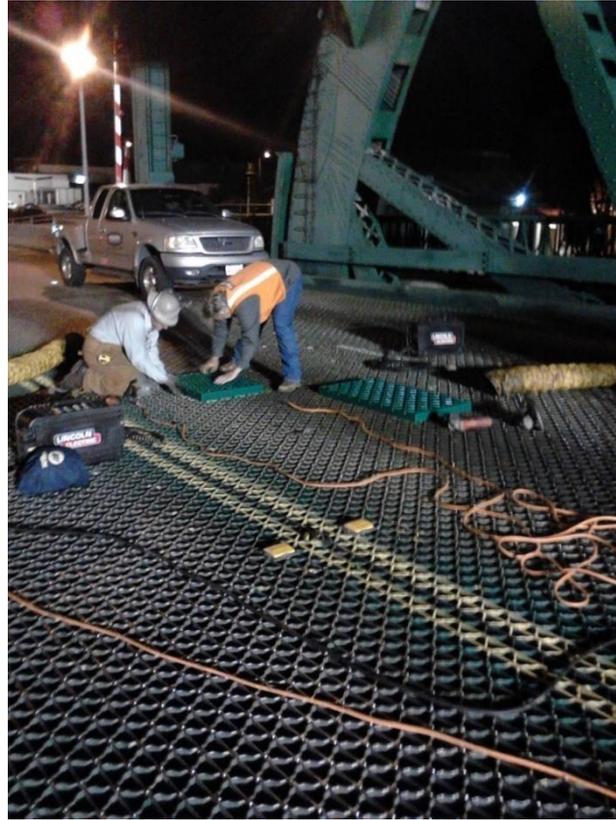
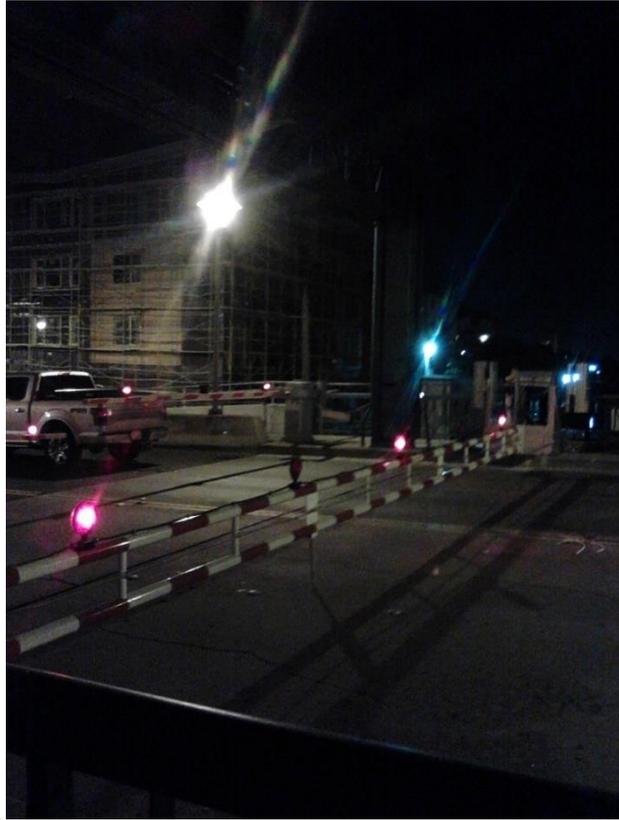


East Castro Valley Boulevard Buffered Class II



Lake Chabot Road Buffered Class II

\$4 Million in Bridge Rehabilitation



Stonybrook Creek Bridge
Palomares Road

High Street and Park Street Bridge Repairs

\$155 Million in Upcoming Transportation Projects



- ▶ Meekland Avenue Phase I (\$5.8M)
- ▶ East 14th Phase II Streetscape (\$18.5M)
- ▶ Stanton Avenue Sidewalk (\$4.5M)
- ▶ East Avenue Sidewalk (\$4M)
- ▶ Santa Maria Sidewalk (\$5.3M)
- ▶ Fairmont Drive Class II Bike Lanes (\$1.9M)
- ▶ Western Boulevard Improvements (\$3.2M)
- ▶ Traffic Signal ECVB at Palo Verde (\$0.7M)
- ▶ Haviland Avenue Sidewalks (\$1.2M)
- ▶ Redwood Road Storm Damage Repairs (\$1.8M)
- ▶ Fairmont Drive Guardrail (\$1M)
- ▶ Redwood Road Crosswalk at I-580 (\$0.4M)
- ▶ Channel Street and Via Enrico Sidewalks (\$1.1M)
- ▶ Hesperian Boulevard Utility Undergrounding (\$14M)
- ▶ Hesperian Boulevard Streetscape (\$31M)
- ▶ Greenville Road at Tesla Road (\$1.1M)
- ▶ Center Street Sidewalk (\$1.6M)
- ▶ West Blossom UPRR Xing (\$0.4M)
- ▶ A Street Sidewalk and Bike Lane (\$3.2M)
- ▶ Anita Avenue Sidewalk (\$3.5M)
- ▶ 164th Avenue/Blossom Way Sidewalks (\$0.7M)
- ▶ Somerset Avenue Sidewalk (\$4.2M)
- ▶ Miller Sweeney Dolphin Cluster and Fender Repair (\$1.2M)
- ▶ Hesperian Boulevard at Sycamore Street Signal Replacement (\$0.8M)
- ▶ Greenville Drive at Villareal Drive Intersection (\$0.4M)
- ▶ Royal Avenue Sidewalks (\$1M)
- ▶ Enforcement Turnouts Crow Canyon Road, Redwood Road, Palomares Road, Patterson Pass Road, Tesla Road (\$3M)
- ▶ Countywide Pavement Rehabilitation (\$39M)

Flood Control Projects and Programs

Flood Control Projects delivered \$63.5 million (2014-2017)

- 2014-2017 Designed and Constructed \$57.3 million
- 2014-2017 Watershed Planning Studies \$ 6.2 million

- 2018-2019 Improvement Projects \$59.7 million
- 2018-2019 Watershed Planning Studies \$ 5.8 million

Flood Control Projects Designed and Constructed (2014-2017)

Capacity Enhancement Projects:

- Eden Landing Pump Station Rehabilitation, Hayward (2014; \$3.8M)
- Ward Creek Floodwalls upstream of Huntwood Avenue, Hayward (2014; \$3.4M)
- Line A-5 Off-line Detention Basin, Hayward (2014; \$3.8M)
- San Leandro Creek Concrete Channel Rehabilitation, San Leandro (2014; \$3.4M)
- Line N Crossing improvements at Knight Street, Oakland (2014; \$1.5M)
- Davis Street New Pump Station, San Leandro (2014; \$7.9M)
- Ward Creek Floodwalls upstream of Huntwood Avenue, Hayward (2015; \$3.4M)
- Ruus Road Pump Station Discharge Pipe Improvements, Hayward (2015; \$2M)
- Line A Cabot Blvd. Crossing Improvements, Hayward (2015; 0.98M)
- Lines K/K-1 Levee and Floodwalls Improvements, Fremont (2015; \$0.88M)
- Mission Creek Flood Protection and Restoration Project upstream of Lake Elizabeth, Fremont (2017; \$12.3M)
- Laguna Creek Flood Protection Project at Auto Mall Parkway and Fremont Blvd. Crossings Phase 1, Fremont (2017; \$1.5M)

Flood Control Projects Designed and Constructed (2014-2017)

Creek and Channel Restoration Projects:

- **Chabot Creek Restoration upstream of Lake Chabot Road, Castro Valley (2014; \$0.8M)**
- Scott Creek Restoration upstream of Green Valley Road, Fremont (2014; \$1.1M)
- San Leandro Creek Desilting and Creek Restoration, Oakland (2015; \$1.8M)
- San Leandro Creek Hazardous Tree Removal (2016; \$1.8M)
- **Cull Creek Dam Spillway Modifications and Creek Restoration, Castro Valley (2016; \$2M)**

Embankment and Erosion Repair Projects:

- Line G Embankment Restoration, Fremont (2015; \$1.7M)

De-Silting Projects:

- Lines M, M-3 and M-5 sediment removal, Union City (2015; \$1.4M)
- Line K Desilting upstream of Coliseum Way, Oakland (2016; \$1.8M)

Cull Creek Dam Spillway Modification and Creek Restoration Project



Cull Creek Dam Spillway Modification and Creek Restoration Project

Phased approach in managing restoration site:

- first annual growth cycle to establish grasses forming dense mats of foliage to control erosion in the 1st year.
- establishment of a non-irrigated vegetated meadow of native grasses will require the following steps over two to three years:
 - Spring 2018: Thin out matted foliage and sow supplemental seed mix of native grasses;
 - Spring 2018: Plant cottonwood cuttings on 20' centers along the stream channel mid-bank for more rapid vertical growth;
 - Summer 2018: Incorporate dry grasses and legumes into the soil top layer by disking or mowing;
 - Fall 2018: Sow additional meadow seed mix including grasses, wildflowers, and legumes;



- Spring 2019: Monitor growth - sow supplemental seed mix as necessary;
- Summer 2019: Repeat mowing /sowing steps as needed.

Upcoming Projects (\$60M)

2018-2019

Design and Construction

	Est. Cost	Year
Bockman Canal Channel Restoration (San Lorenzo)	2,000,000	2018
Estudillo Canal Tidegate Structure Rehabilitation (San Leandro)	3,600,000	2018
Estudillo Canal South Levee Improvements (San Leandro)	1,700,000	2018
Zone 3A Line G-1 – Culvert Crossing Improvement (Hayward/Union City)	600,000	2018
Laguna Creek – Culvert Crossing Improvement at I-880 Freeway (Fremont)	7,900,000	2018
Laguna Creek – Channel and Culvert Improvements downstream of I-880 Freeway (Fremont)	11,900,000	2018
Turner Court Low-Impact Development Demonstration Project (Hayward)	3,500,000	2018
Zone 2 Line N-3 – Tidegate Structure Improvement (San Lorenzo)	300,000	2018
Davis Street Pump Station Modifications (San Leandro)	1,000,000	2018
	2018 Sub-Total:	32,500,000
Alvarado Pump Station and Outfall Structure Rehabilitation (Hayward)	2,800,000	2019
Line B Levee Raise downstream of Line F (Hayward)	500,000	2019
Alameda Creek Fish-ladder at BART Weir (Fremont)	7,700,000	2019
Mission Creek Crossing Improvements (Phase 1) at Lemos Lane (Fremont)	1,000,000	2019
Laguna Creek Channel Improvements between Grimmer Blvd. & Auto Mall Parkway (Fremont)	6,300,000	2019
Agua Caliente Creek Restoration between I-680 Freeway and Curtner Road (Fremont)	1,500,000	2019
San Leandro Creek Urban Greenway Trail between Hegenberger Road and 105 th Avenue (Oakland)	5,000,000	2019
Trash Capture Underground Structure (Unincorporated Areas of Alameda County)	2,400,000	2019
	2019 Sub-Total:	27,200,000
	Total Two Years:	59,700,000

Maintenance & Operations

The slide features a white background with a decorative graphic on the right side. This graphic consists of several overlapping, semi-transparent green triangles and polygons in various shades of green, ranging from light lime to dark forest green. The shapes are arranged in a way that they appear to be layered, creating a sense of depth and movement. The overall design is clean and modern.

Maintenance & Operation Services



Flood Control Maintenance \$51M

\$126 million
2014 to 17



Fleet Maintenance \$11M



Road Maintenance \$45M



Bridge Operations \$13M

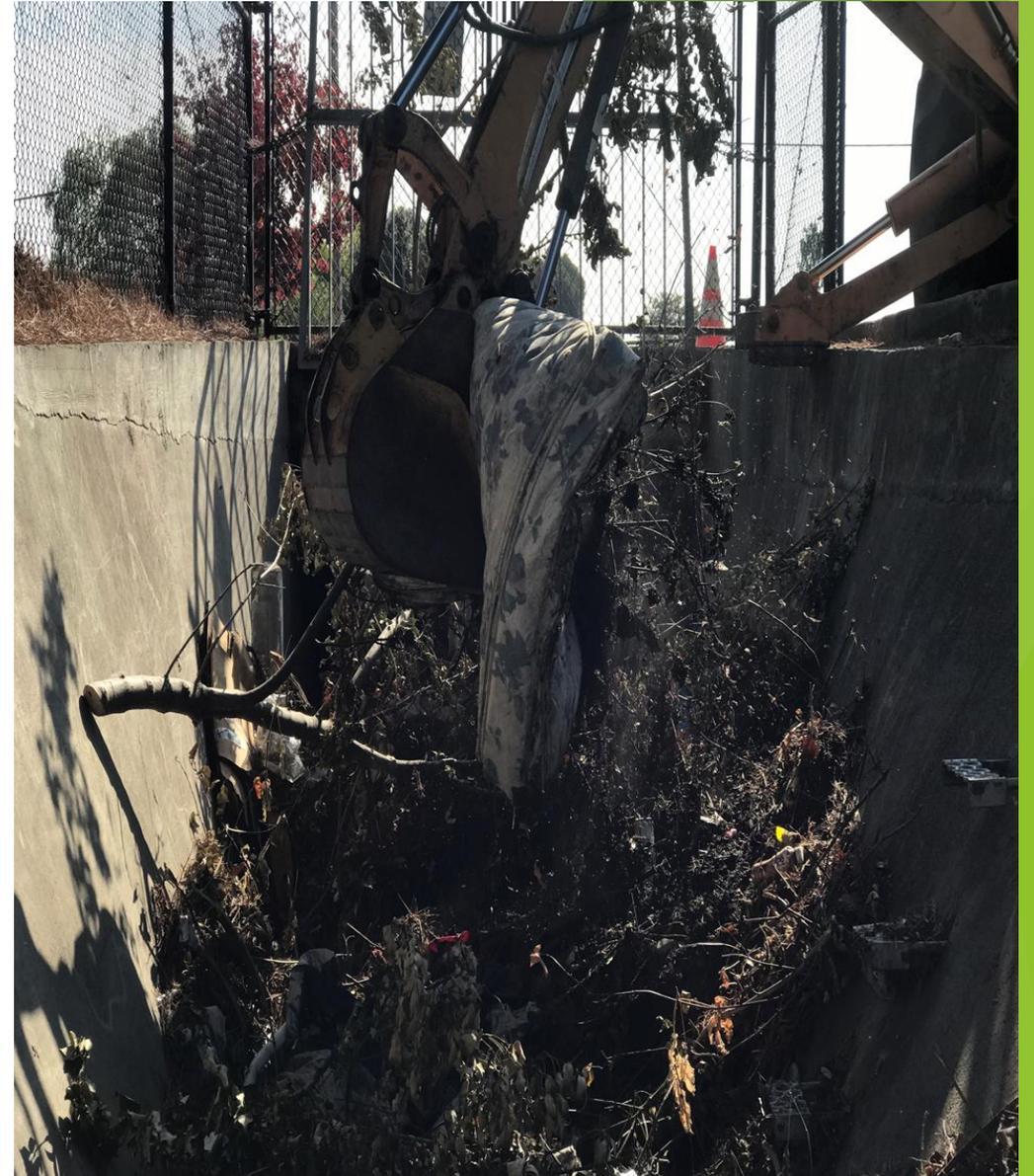


Community Preservation \$6M

Flood Control Maintenance

- ❖ Maintain 580 miles of Flood control system including:
 - ✓ Desilting
 - ✓ Vegetation management
 - ✓ Access road Repair
 - ✓ Tide Gate maintenance
 - ✓ Erosion Repair
 - ✓ Silt processing site maintenance
 - ✓ Illegally dumped debris removal
 - ✓ Fence Repairs

- ❖ Maintain and operate 24 pump stations



Road Maintenance



Maintain 470 miles of Road including:

- ✓ Pothole repair
- ✓ Base repair
- ✓ Resurfacing
- ✓ Traffic sign installation
- ✓ Traffic marking maintenance
- ✓ Curb & gutter repair
- ✓ Weed abatement
- ✓ Illegally dumped debris removal
- ✓ Street Sweeping

Maintain and operate 83 traffic signals

Fleet Maintenance



Fleet Maintenance Services:

- ✓ Maintain over 290 units which includes heavy equipment, sedans and trucks
- ✓ Fleet Acquisition
- ✓ Maintain over 130 units for other Agencies

Provide Fleet Services For:

- Alameda County General Services
- Alameda County Sheriff's Office
- Alameda County Public Health Department



Bridge Operations

- ✓ Operate & Maintain 6 Estuary Bridges
- ✓ 24/7 draw bridge operation
- ✓ Bridge opening - over 8,000 (2014 to 2017)
- ✓ Over 80,000 vehicles per day (29+Million vehicles/year)
(Park, High and Fruitvale Bridges.)

Community Preservation



- ✓ Abate graffiti on Public right of way and County facilities



- ✓ Remove debris/illegal dumping from public right of way
- ✓ Continue to support community cleanups events and Adopt-a-Spot program
- ✓ Remove shopping carts from right of way



Services w/2014-2017 Performance Data

Activity Description	Units	Castro Valley Work	Countywide Work
Street Signals Operations maintenance	Units	364	2,712
Traffic Marking Legend Painting	Lineal Feet	44,679	66,013
Shopping Cart Removal	Carts	554	2,507
Drop Inlet Inspection	Drop Inlet	8,264	29,988
Graffiti Removal	Square Feet	17,125	99,838
Pothole Repair	Pot Holes	2332	8,735
Street Sweeping	Curb Miles	4,134	12,877
Traffic and Street name signs	Signs	2,423	12,285
Base Repair	Tons	264	545
Landscape Maintenance and weed abatement	Acres	23	6,670
Tree Trimming	Tree	1,236	5,588
Debris and Brush Removal	Cubic Yards	7,914	74,648

BUILDING PERMITS AND INSPECTION SERVICES

BUILDING PERMITS AND INSPECTION SERVICES



Residential/Building Permits



Residential Solar Permits



**Issue over 6,600 building permits per year
Perform over 18,600 building inspections annually**

Other Services Provided

- Clean Water Program
- Environmental Services & Regulatory Permitting
- Right of Way Services
- Surveying & Mapping Services
- Construction Management Services
- Development & Facilities Engineering
- County Service Area Administration

New CSA Established to Fund Sidewalk Installation

County Service Area Sidewalk Improvement Zone

What is a County Service Area?

A **County Service Area (CSA)** is a type of special assessment district formed to provide specific extended services to residents and property owners in unincorporated areas of Alameda County.

Under the direction of the Alameda County Board of Supervisors, the Public Works Agency currently provides the following types of extended services through CSAs within an unincorporated area:

- Street Lighting
- Maintenance Services for Private Roads
- Storm Drain Maintenance
- Water and Sewer Services

The Public Works Agency also offers a **CSA Sidewalk Improvement Zone** for residents interested in funding sidewalk construction in their neighborhood.



Public Works Agency
— Alameda County —

399 Elmhurst Street, Hayward, CA 94544
(510) 670-5480 | www.acpwa.org



Public Works Agency
— Alameda County —

Establishing a
County Service Area
Sidewalk Improvement Zone



Establishing a CSA-Sidewalk Improvement Zone

A County Service Area can be initiated through a resolution by the Alameda County Board of Supervisors or through a petition signed by no less than 10% of the registered voters (who are property owners) residing within the proposed zone.

Once a resolution or petition is initiated, a Notice of Intention is filed with the Alameda County Local Agency Formation Commission (LAFAC) and a public hearing is held to provide information to the property owners.

If more than 50% of the resident voters (who are property owners) file written objections, a majority protest arises and the proceedings will be terminated.

If there is no majority protest, the voters will be asked to approve the financing method. If such funding is not approved, the zone shall not be formed. Residents in other areas of the county who do not wish to receive additional services will not bear any costs.

Financing a CSA

When a CSA exists, the property owner will pay taxes and fees to the CSA instead of the County for the services provided. These will be billed as line items on the County's property tax bill.

The taxes may take a variety of forms:

- General property taxes may be levied depending upon Prop. 13 constraints. These taxes, referred to as "ad valorem taxes", are based on assessed value.
- Special taxes may be levied for specific purposes. These taxes must be approved by a 2/3 vote of CSA residents.
- Benefit assessments may be levied for specific purposes and are based on the direct benefit each parcel receives from the improvements or services financed. These charges are subject to annual approval at a public hearing.

The property owner receives notice regarding the taxes and/or fee, including the amount of the proposed fee.

There must be a public hearing where protests are considered. If a majority protest of 50% or more are against the assessment, there shall be no assessment.

Costs Associated with a CSA Sidewalk Improvement Zone

The cost of the sidewalk improvements are dependent on a number of factors including:

- design and construction management costs
- site conditions
- property location
- selected improvements.

An estimated linear footage cost will be provided for each area requested based on the actual project location.

For More Information:

Email: CSAsidewalks@acpwa.org

Phone (510) 670-5518

Sidewalk and Bike Facilities (2001-Present)

In unincorporated areas, PWA has spent over \$124M in implementing sidewalk, bike lane and other safety projects; \$10 M currently under construction; \$53 M in Design; and \$63M under Preliminary Engineering and scoping

A total of \$250 million in completed, under construction & design and planned projects

- This investment has resulted in a total of 211,000 feet or 40 miles of completed, under construction & design and planned sidewalk projects; of which 183,000 feet or 34 miles is in D4; and
- 225,000 feet or 42 miles of completed, under construction & design and planned bike facility projects; of which 148,000 feet or 28 miles is in District 4.

Completed Projects:

- Completed 106,000 feet (20 miles) of sidewalk, of which 82,000 feet (15.5 miles) in D4.
- Completed 137,000 feet (26 miles) of bike lanes, of which 86,000 feet (16 miles) in D4.

Under Construction:

- 14,300 feet (2.7 miles) of sidewalk of which 13,100 feet (2.5 miles) in D4
- 4,800 feet (.9 miles) of bike lanes of which 4500 (.85 miles) feet in D4

Under Design:

- 43,700 feet (8 miles) of sidewalk, all of which are in D4
- 62,400 feet (12 miles) of bike lane, of which 38,400 (7 miles) are in D4.

Under Preliminary Engineering or Scoping:

- 47,000 feet (9 miles) of sidewalk, of which 45,000 feet (8.5 miles) in D4
- 21,000 (4 miles) feet of bike lane of which 20,000 (3.8 miles) in D4.

Questions?