



RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

AGENDA

Commissioners of Zone 5 of the Riverside County Flood Control and Water Conservation District will hold a Public Budget Hearing at 9:30 a.m. on Thursday, December 7, 2023 at the Riverside County Flood Control District office, 1995 Market Street, Riverside.

The purpose of this meeting is to receive requests from interested parties for project funding for the budget of Fiscal Year 2024-2025.

1. Chief Engineer's Report of Zone Activities.
2. Receive requests from interested parties for projects for Fiscal Year 2024-2025.
3. Oral communication from the audience.

The Budget Work Session is set for 9:30 a.m. on Thursday, February 22, 2024 at the Riverside County Flood Control and Water Conservation District office, 1995 Market Street, Riverside. The purpose of the meeting is to discuss the budgeting of projects for Fiscal Year 2024-2025.

Zone 5
Report to the Zone Commissioners
By Jason E. Uhley, General Manager-Chief Engineer
November 2023

Completed Projects

Beaumont MDP Line 16, Stage 1 (5-8-00201-01)

This District-led project constructed storm drain and water conservation elements as a joint project with Beaumont-Cherry Valley Water District (BCVWD). The project construction was completed in May 2023. Storm flows are collected in Bellflower Avenue, Winesap Avenue, Jonathan Avenue, Cherry Avenue, Nobel Street and Grand Avenue and safely conveyed westerly to an existing recharge basin owned and operated by BCVWD. Flows that reach the basins help recharge the groundwater basin and become available for future pumping to meet the community's water needs. The project was partially funded by the Proposition 84 Integrated Regional Water Management Grant equating to approximately \$1.2 million, with the remainder split equally between BCVWD and the District.

Active District-Led Projects

Marshall Creek, Stage 1 (5-8-00080-01)

This is a District-led storm drain improvement project in unincorporated Riverside County that aims to provide 100-year flood protection to residents, property and infrastructure. The project is anticipated to consist of a 2,500 foot trapezoidal channel located to the south of the street right of way at the intersection of Brookside and Winesap Avenues. The trapezoidal channel will collect and convey flows west along Brookside Avenue before connecting to a proposed reinforced concrete box (RCB) beginning at Brookside Avenue and Cherry Avenue. The RCB will proceed west along Brookside Avenue and turn south at Nobel Street. It will replace the existing trapezoidal concrete channel and outlet into the existing Marshall Creek Channel, both belonging to the City of Beaumont. The overall system of Marshall Creek Channel (including future stages) will result in 100-year flood protection to the community along the alignment. The District will be responsible for operation and maintenance of the storm drain improvements. This project is funded by the District and the City of Beaumont. A Preliminary Design Report is being prepared to analyze proposed alternative alignments and select a preferred alternative.

Active Partner-Led Projects

Banning Water Canyon Storm Water Percolation Basins Emergency Repair, Stage 1 (5-6-10000-01)

This is a City of Banning-led project requesting funding to dredge out several stormwater percolation basins in the Banning Water Canyon impacted by storms in 2022/23 rainy season. The impact to the basins were exacerbated due to debris related to the Apple Fire. The City of Banning will construct the restoration and will continue to be responsible for operation and maintenance of the facility. This project is funded as a cost share between the District and the City of Banning. The project is anticipated to be advertised for construction in Q4 2023.

Zone 5
Report to the Zone Commissioners
November 2023

San Gorgonio Integrated Regional Watershed Management (IRWM) (5-6-10027-00)

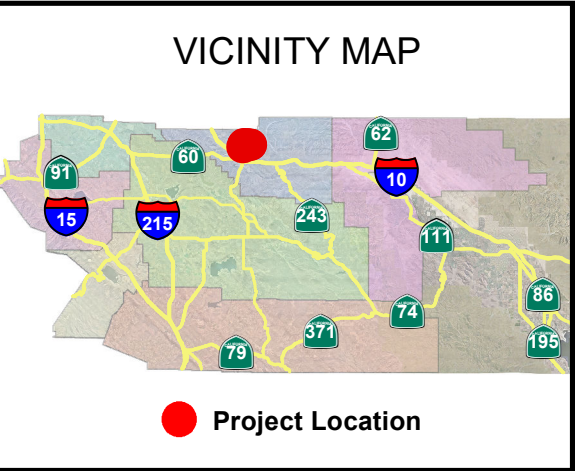
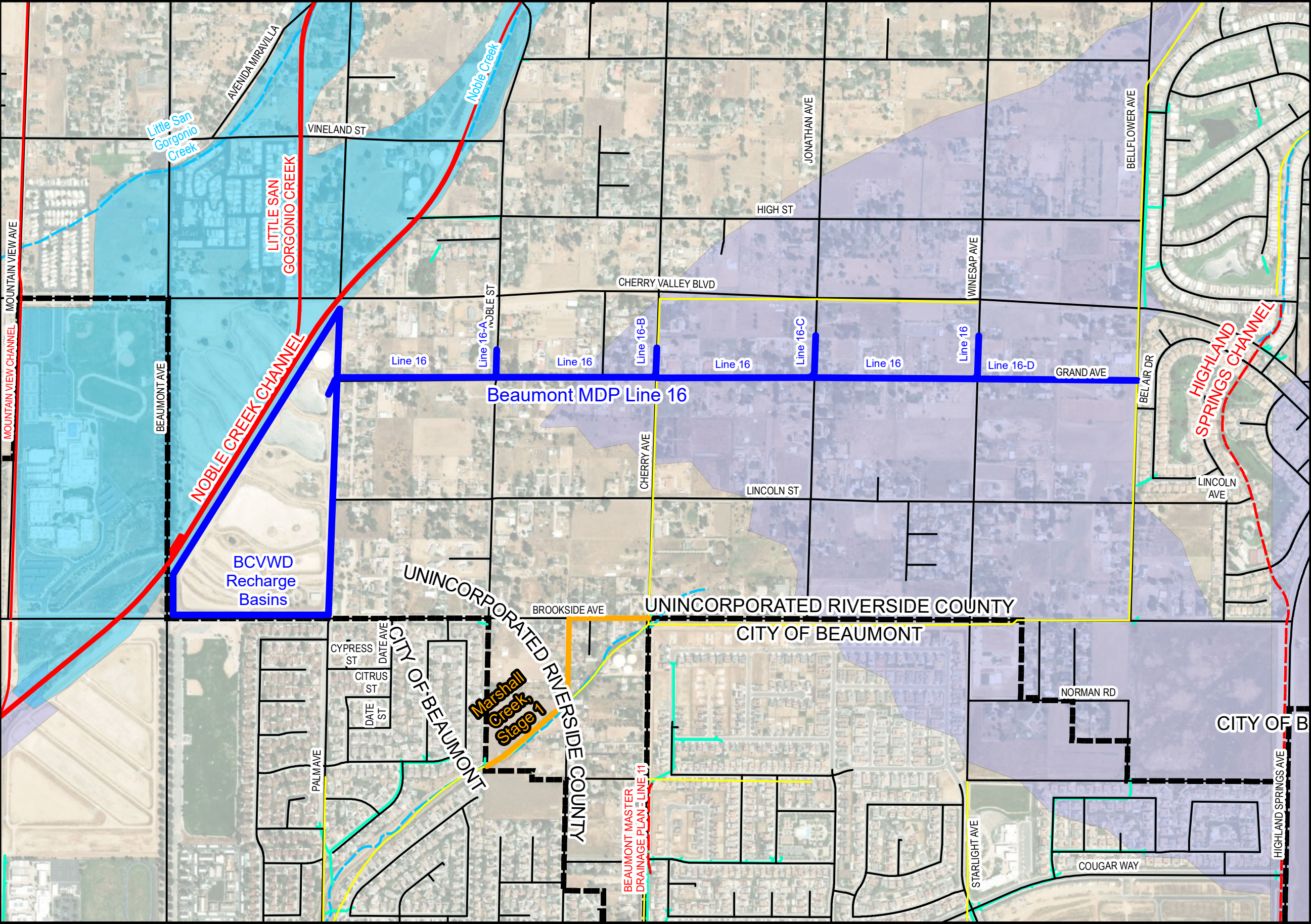
This is a City of Banning-led effort to identify and implement water management solutions on a regional scale. The project will include activities to support close coordination with project proponents, the District, Regional Water Management Group members and other stakeholders. Cost includes project management of the San Gorgonio IRWM Plan, including close coordination with all key stakeholders.

Calimesa Channel, Stage 3 (5-8-00160-03)

This is a City of Calimesa-led project that will provide flood protection and reduce erosion along Calimesa Creek and adjacent public facilities. Storm flows are generally conveyed from east to west. This project will be broken up into two phases. Phase 1 will include approximately 1,700 feet of storm drain located within County Line Road between 5th Street and Calimesa Boulevard. Phase 1 will remain a "dry" system until Phase 2 is constructed. Phase 2 will include three elements: 1) a 53 acre-feet detention basin near the southwest corner of 3rd Street and County Line Road, 2) a storm drain to connect the existing Calimesa Channel outlet near 5th Street to the Phase 1 storm drain and 3) construction of the outlet for the entire system located 300 feet west of the intersection of Calimesa Boulevard and County Line Road. The City of Calimesa will be responsible for operation and maintenance of the system until Phase 2 construction is complete and accepted by the District. The detention basin may also include elements to facilitate groundwater recharge. If included, South Mesa Water District will be responsible for maintenance of the recharge aspects of the basin. This project is funded as a cost share between the District, the City of Calimesa and an Environmental Protection Agency grant. The project has finished 90% design. The City of Calimesa is currently in the process of finalizing the hydrology report and seeking regulatory approvals.

Beaumont MDP Line 2, Stage 1 (5-8-00195-01)

This City of Beaumont-led project will collect storm flows beginning at Chestnut Avenue and 6th Street and convey them in an underground storm drain system east along 6th Street, then south along Pennsylvania Avenue past Interstate 10, where the flows will then outlet into an existing developer constructed open channel located east of the intersection of First Street and Berkshire Avenue. The project will construct 4,800 feet of storm drain, which will provide flood protection to the surrounding community. The District will be responsible for operation and maintenance of the facility once constructed. This project is funded by the District. The Cooperative Funding Agreement between the District and the City of Beaumont was approved by City Council and executed by the District's Board. The City of Beaumont has expressed interest in including additional watershed areas to drain into the storm drain facility. The project is in the early design phase, the District has provided comments and the hydrology report is being finalized. The City of Beaumont will begin the improvement plans once the drainage study is complete.



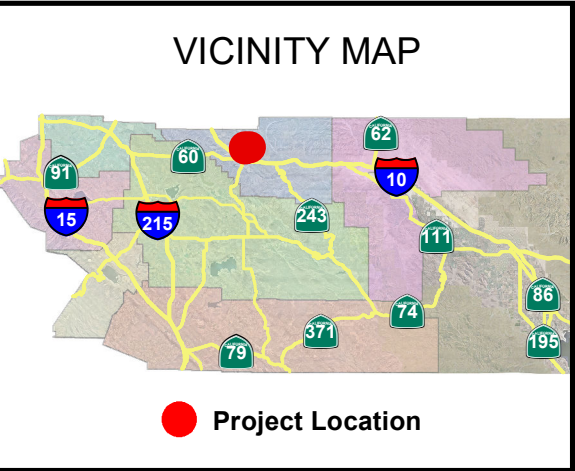
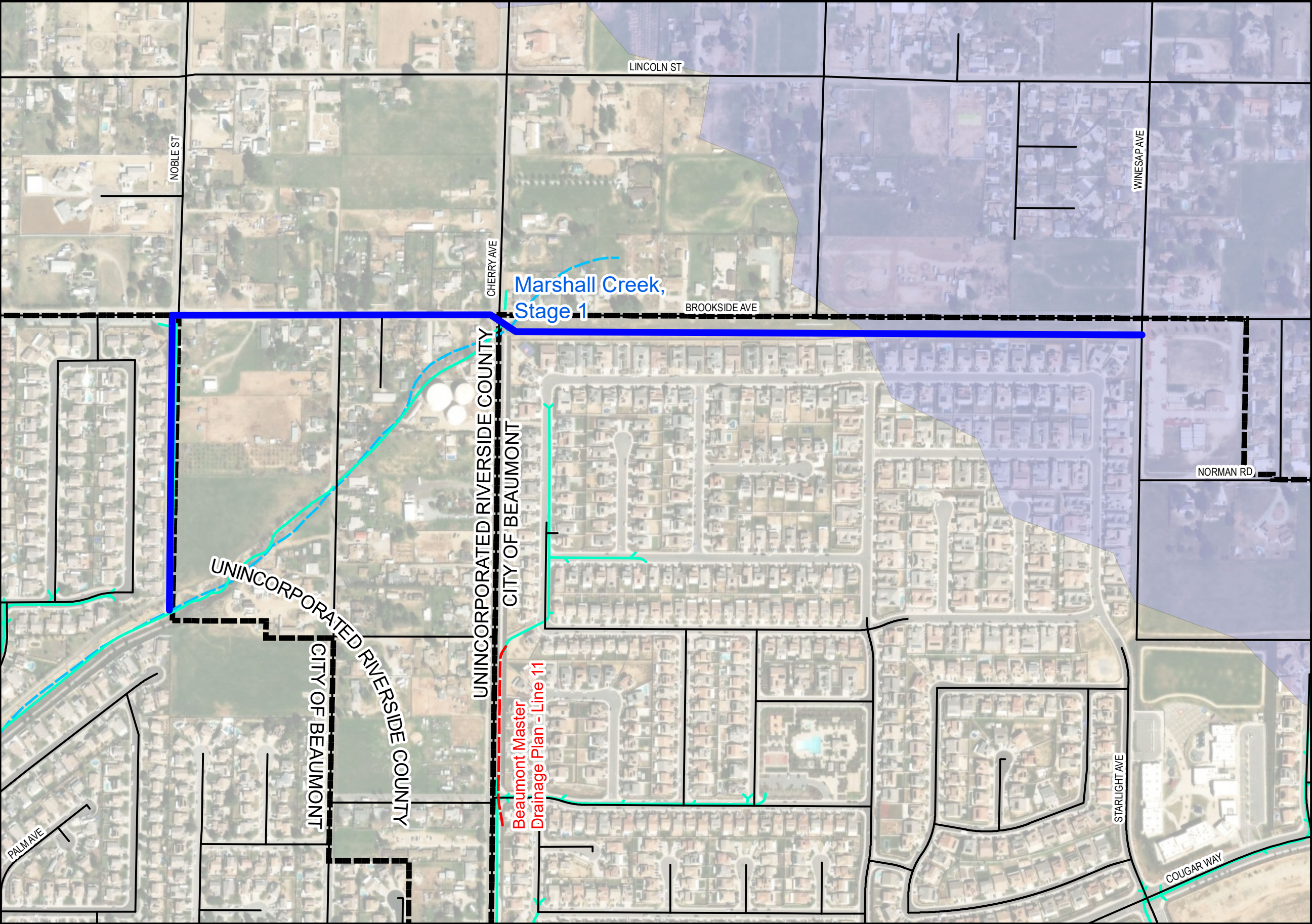
Description

This is a District-led storm drain project featuring water conservation elements and is a joint project with Beaumont-Cherry Valley Water District (BCVWD). The project consists of 7,800 feet of pipe (54"-84") and recharge basin improvements. The primary objective of this project is to provide flood protection to residents near Grand Avenue in Cherry Valley and increase groundwater recharge within the project vicinity. Storm flows are generally collected in Bellflower Avenue, Winesap Avenue, Jonathan Avenue, Cherry Avenue, Nobel Street, and Grand Avenue and are safely conveyed westerly to an existing recharge basin owned and operated by BCVWD. Flows reaching the basins will help recharge the groundwater basin and become available for future pumping to meet the community's water needs.

Legend

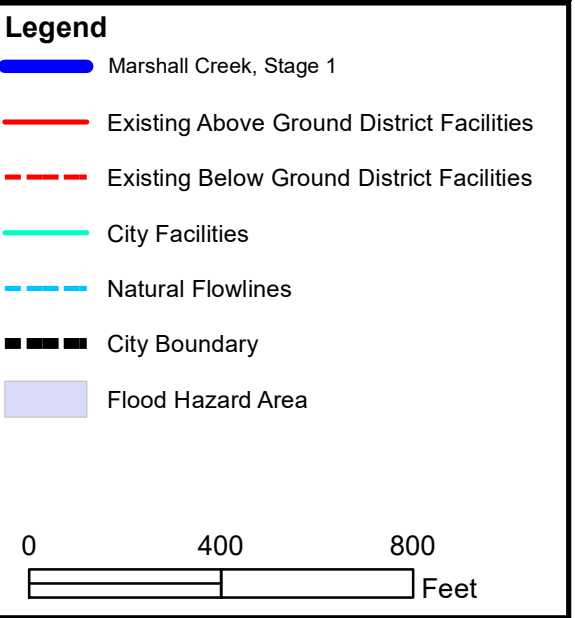
- Beaumont MDP Line 16
- Other Budgeted CIP Facilities
- Existing Above Ground District Facilities
- Existing Below Ground District Facilities
- Un-budgeted District Facilities
- City Facilities
- Natural Flowlines
- City Boundary
- FEMA Flood Plain
- Flood Hazard Area

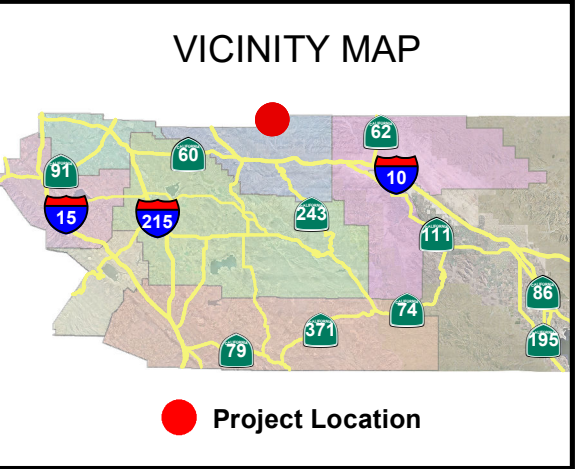
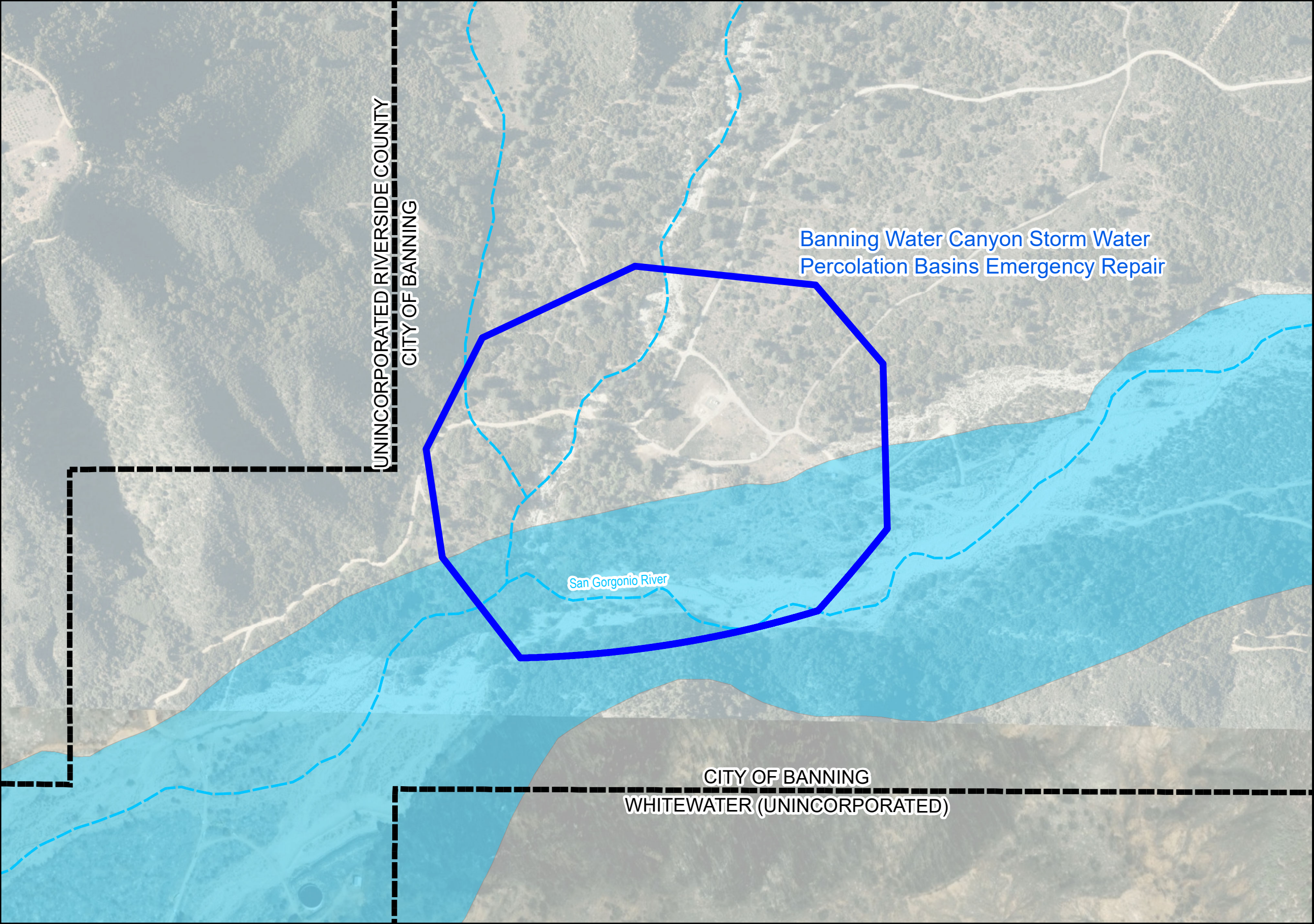
0 800 1,600 Feet



Description

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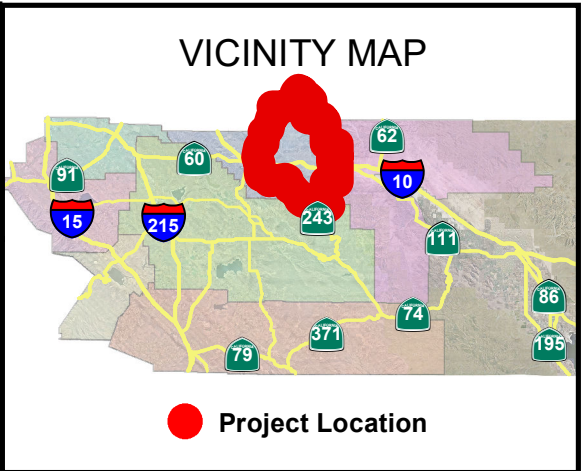
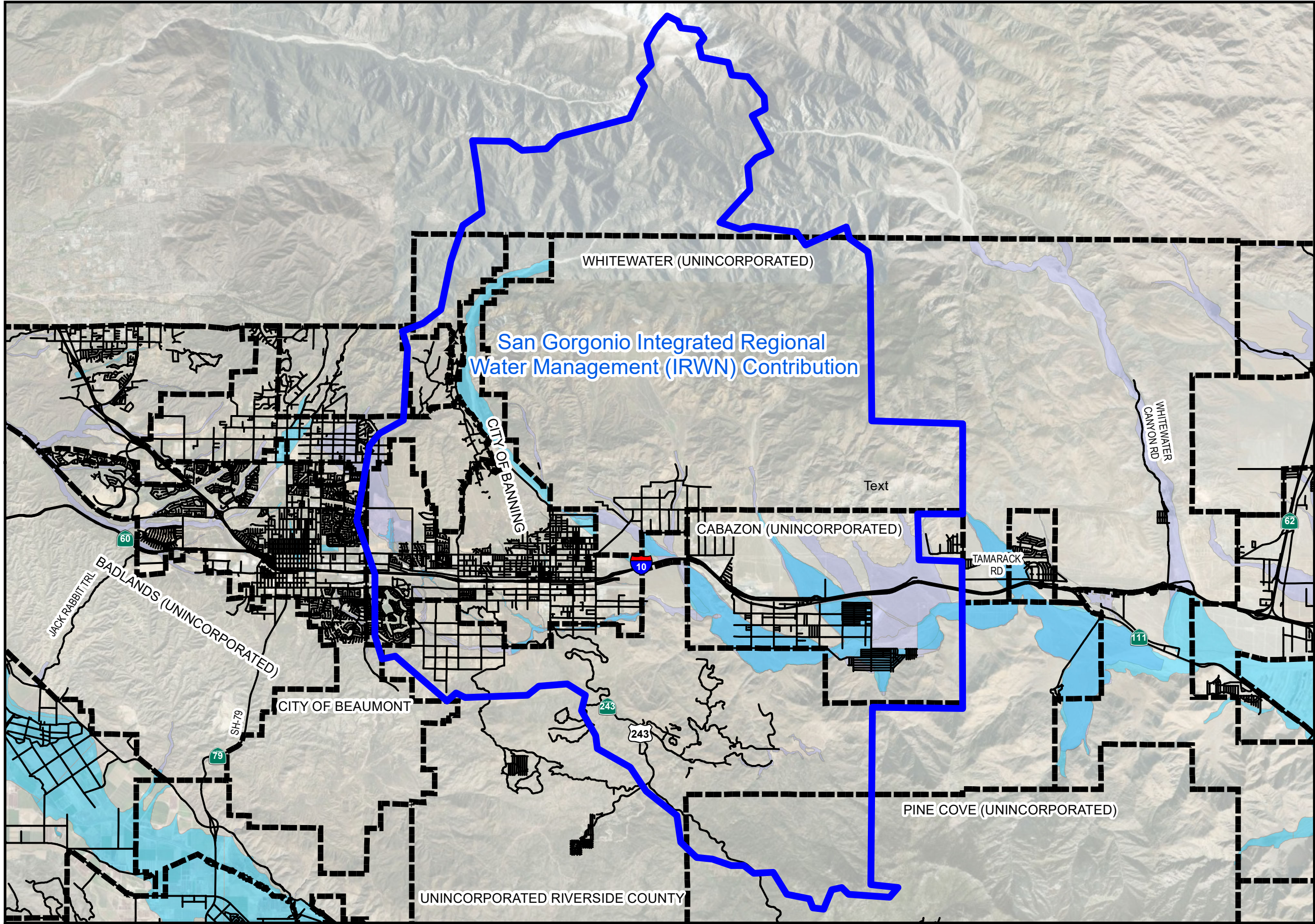
Description

This a City of Banning-led project requesting funding to dredge out several stormwater percolation basins in the Banning Water Canyon impacted by storms in 2022/23 rainy season. The impact to the basins were exacerbated due to debris related to the Apple Fire. The City of Banning will be responsible for operation and maintenance of the facility.

Legend

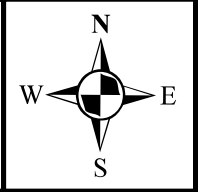
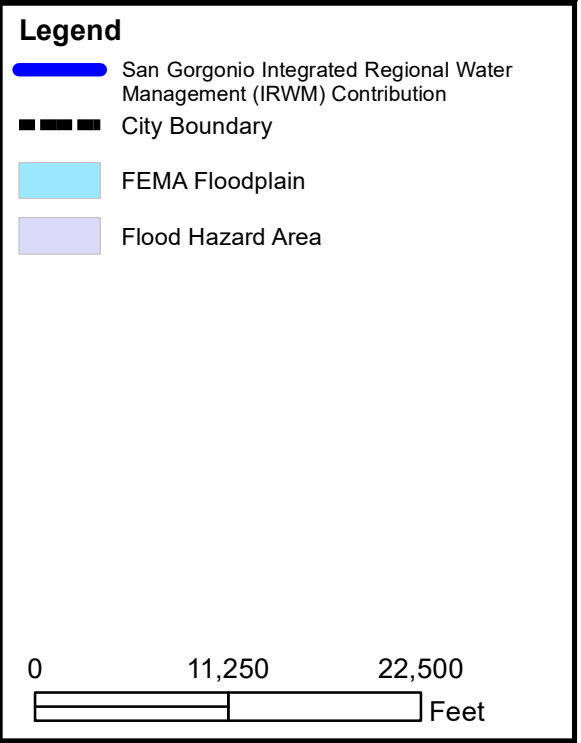
- Banning Water Canyon Storm Water Percolation Basins Emergency Repair
- Natural Flowlines
- City Boundary
- FEMA Floodplain

0 400 800 Feet

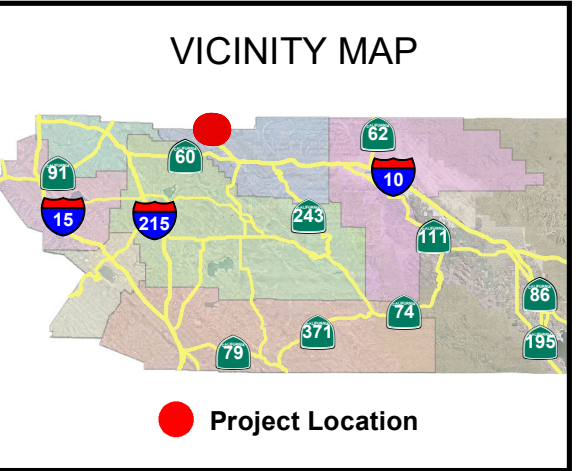
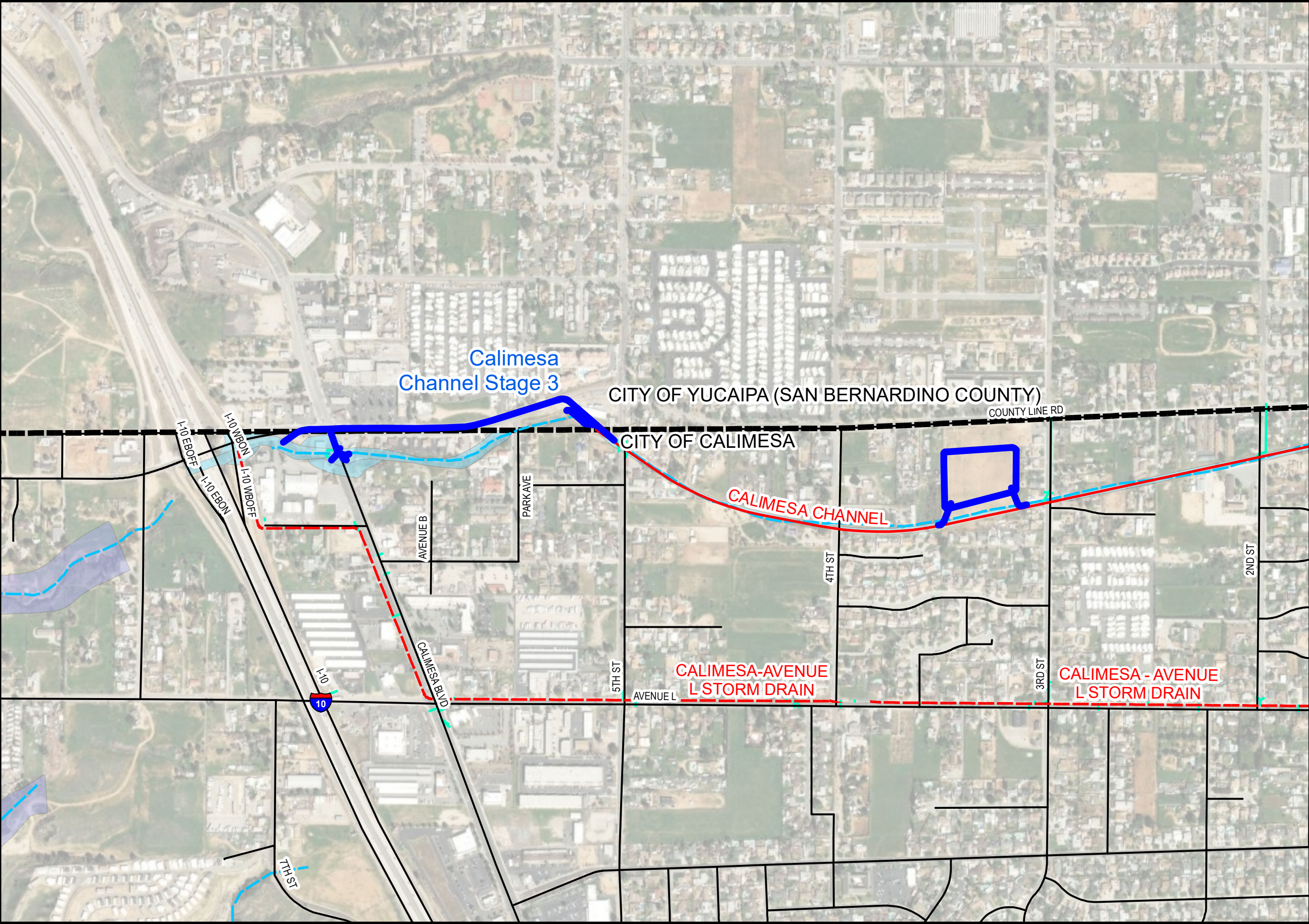


Description

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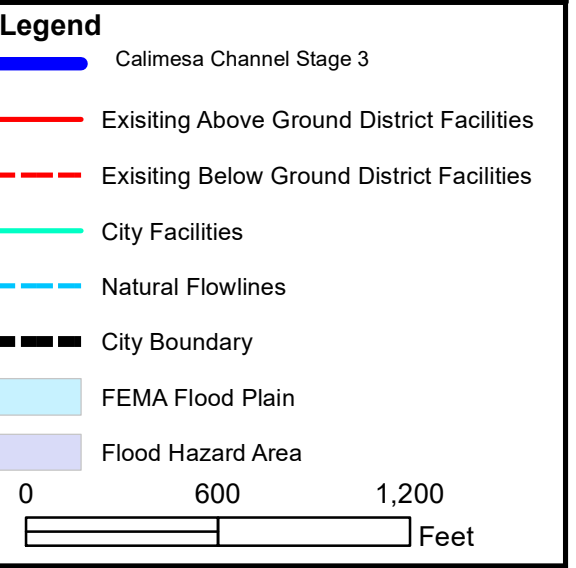


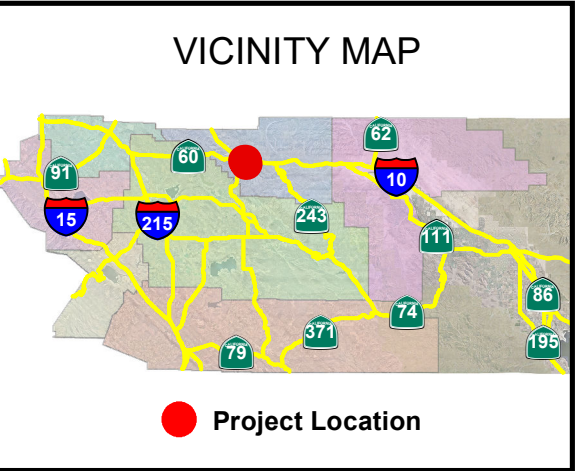
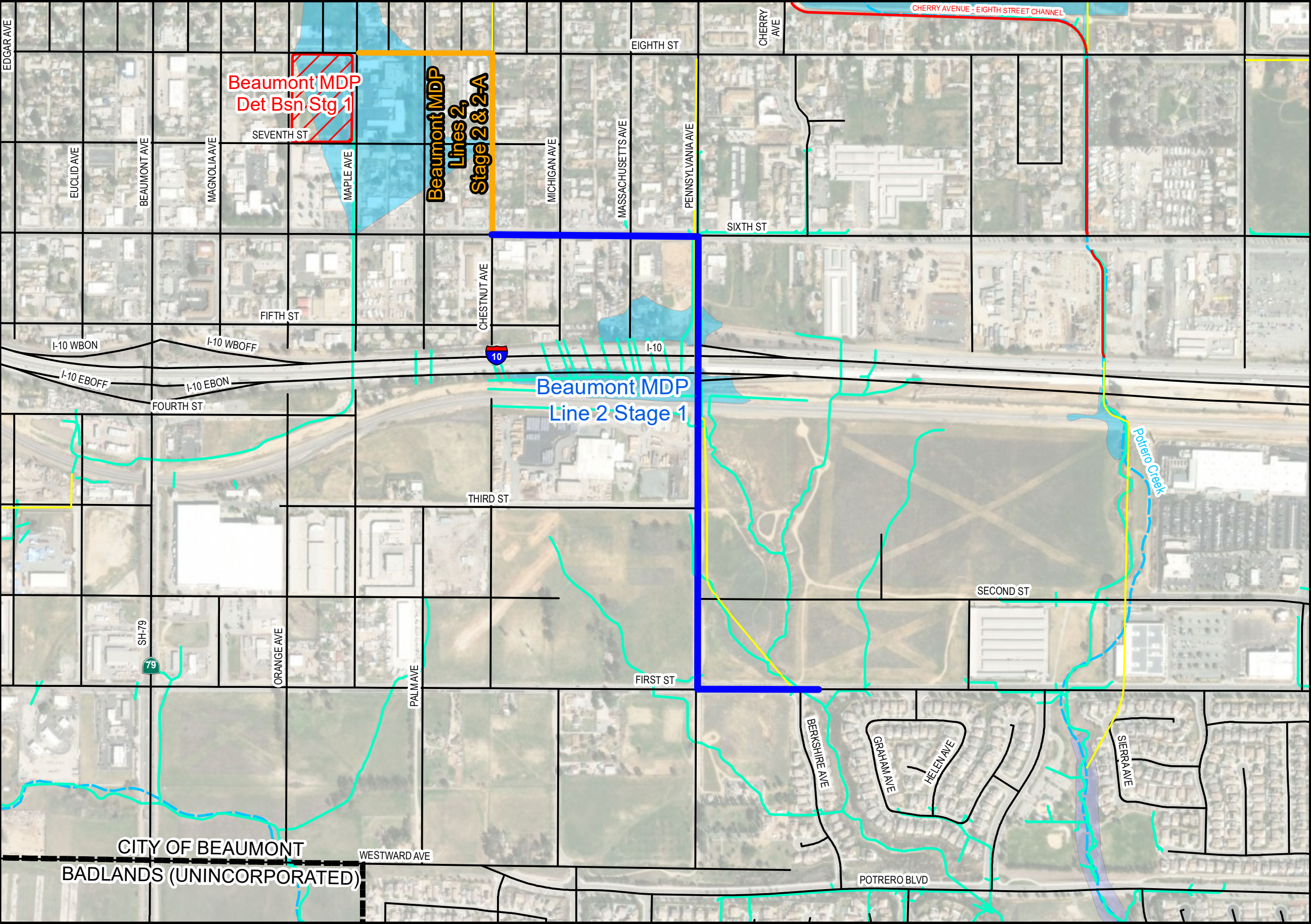
Project No.	5-6-10027-00
Engineer	A. Wells
Date Created	6/22/2023



Description

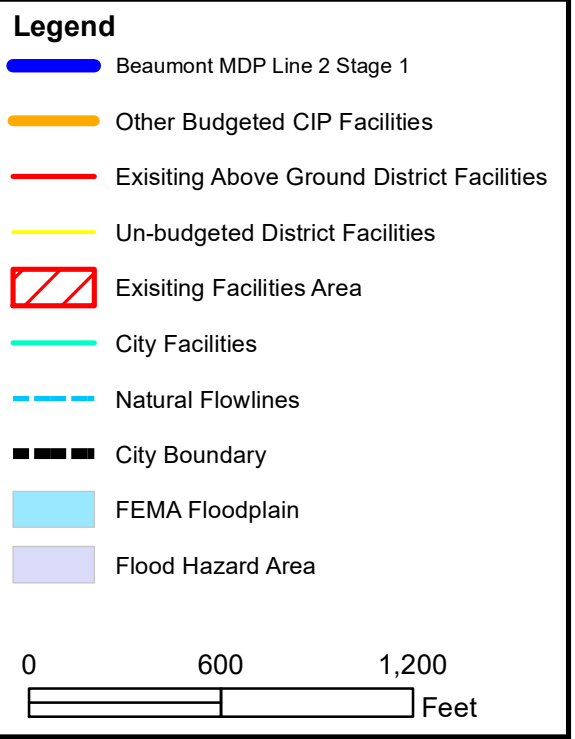
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Description

This City of Beaumont-led project will collect storm flows beginning at Chestnut Avenue and 6th Street and convey them in an underground storm drain system east along 6th Street, then south along Pennsylvania Avenue past the Interstate 10 Freeway, where the flows will then outlet into an existing developer constructed open channel located east of the intersection of First St and Berkshire Avenue. The project will construct 4,800 feet of storm drain, which will provide flood protection to the surrounding community. The District will be responsible for operation and maintenance of the facility.



ZONE 5

DEBBIE FRANKLIN, 5th District
MICHAEL VALDIVIA, 5th District
WILLIAM "BILL" DAVIS, 5th District

The demand for infrastructure generally outpaces available financial resources leaving many unmet needs.

The district must consider public safety above all else, but also strive to develop the most economical project possible consistent with this obligation.

The available fund balance usually makes up the difference if projected revenue does not cover projected appropriations.

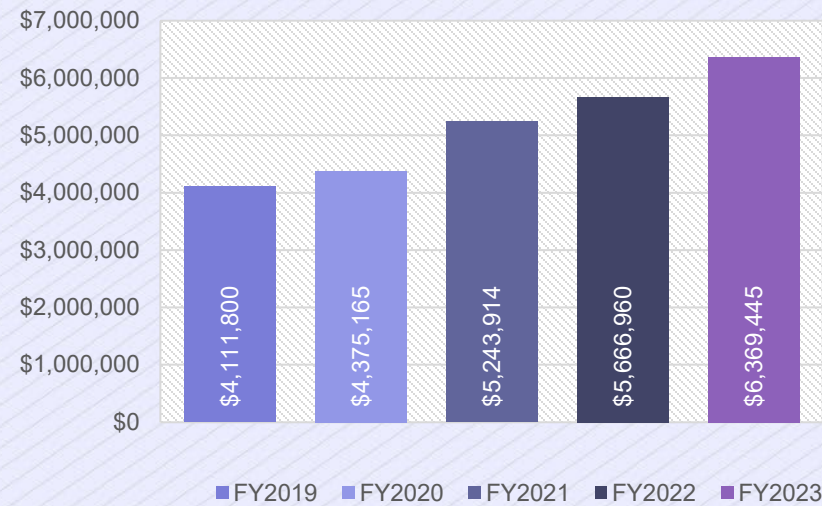


Fund Balance for FY 2022–2023

JULY 1, 2022 \$17,121,808

JUNE 30, 2023 \$13,159,566

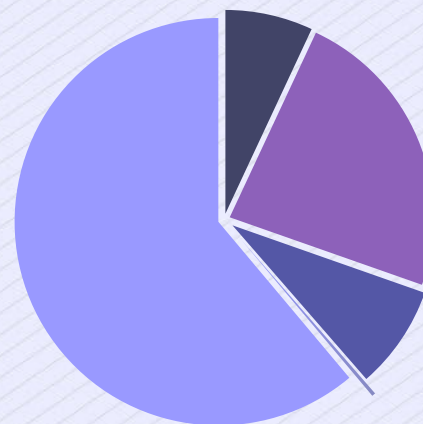
Property Taxes (5 year trend)



Uses

(How the money is used)

TOTAL \$11,918,000



- Administration – 8%
\$980,000
- Maintenance – 7%
\$829,000
- Partner Led Projects – 1%
\$34,000
- District Led Projects – 61%
\$7,284,000
- General Zone Work – 23%
\$2,791,000

Sources

(Where the money comes from)

TOTAL \$7,955,000



- Other – 20%
\$1,586,000
- Property taxes – 80%
\$6,369,000

ZONE 5

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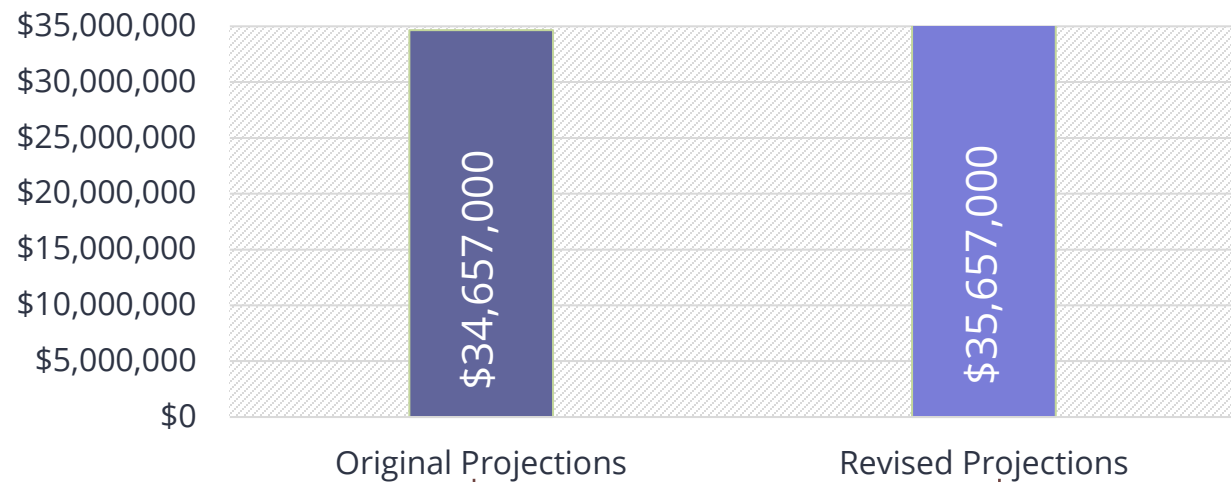
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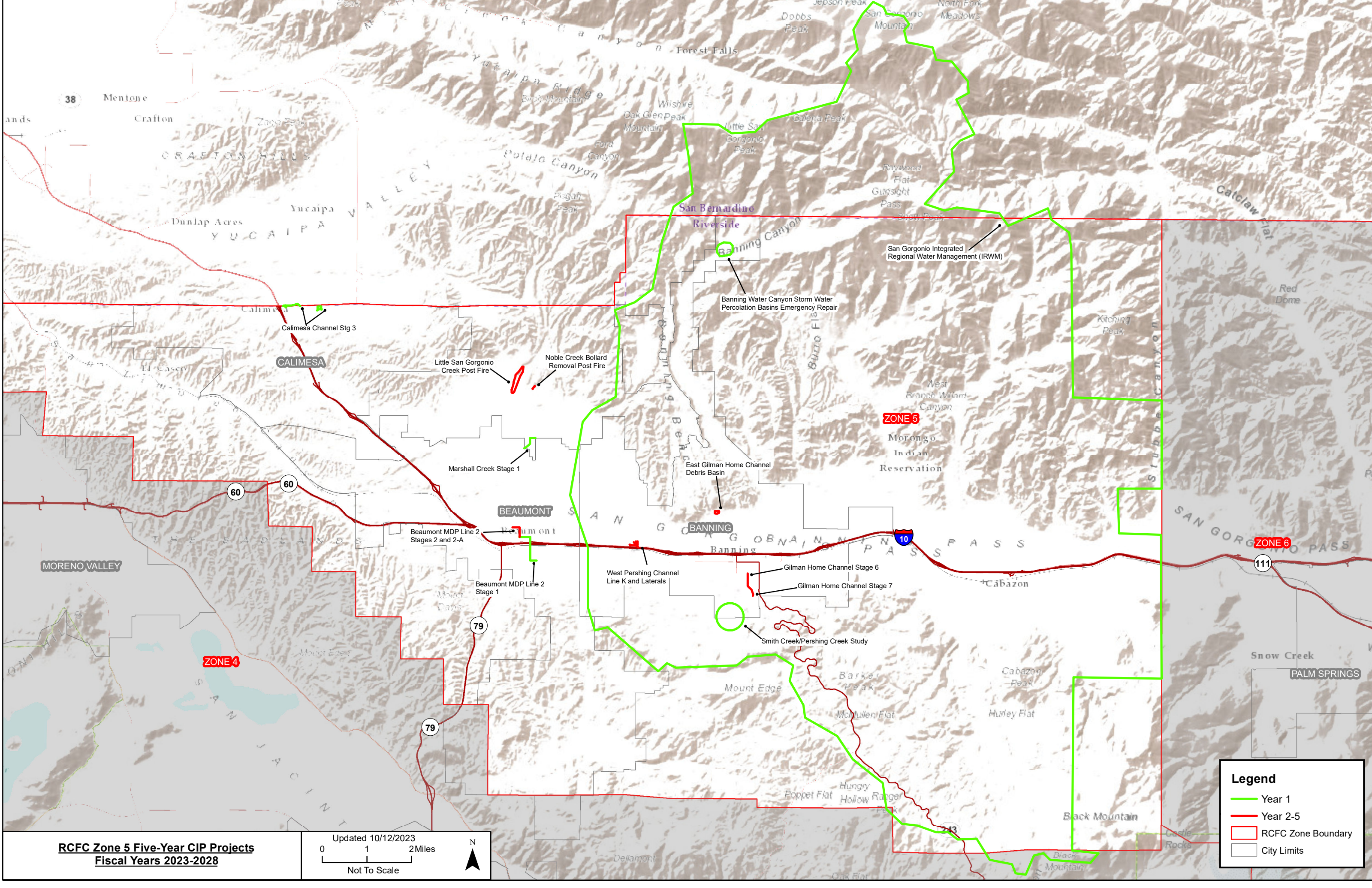


**Forecasting
FY24-25 thru FY28-29**

Original Projections vs. Revised Projections Additional Property Tax Revenue Available



**Forecasting \$7,571,000 to be available for Cost Increases
on Existing Projects and New Requests**



RCFC Zone 5 Five-Year CIP Projects
Fiscal Years 2023-2028

Updated 10/12/2023

0 1 2 Miles

Not To Scale

N

Legend

- Year 1
- Year 2-5
- RCFC Zone Boundary
- City Limits

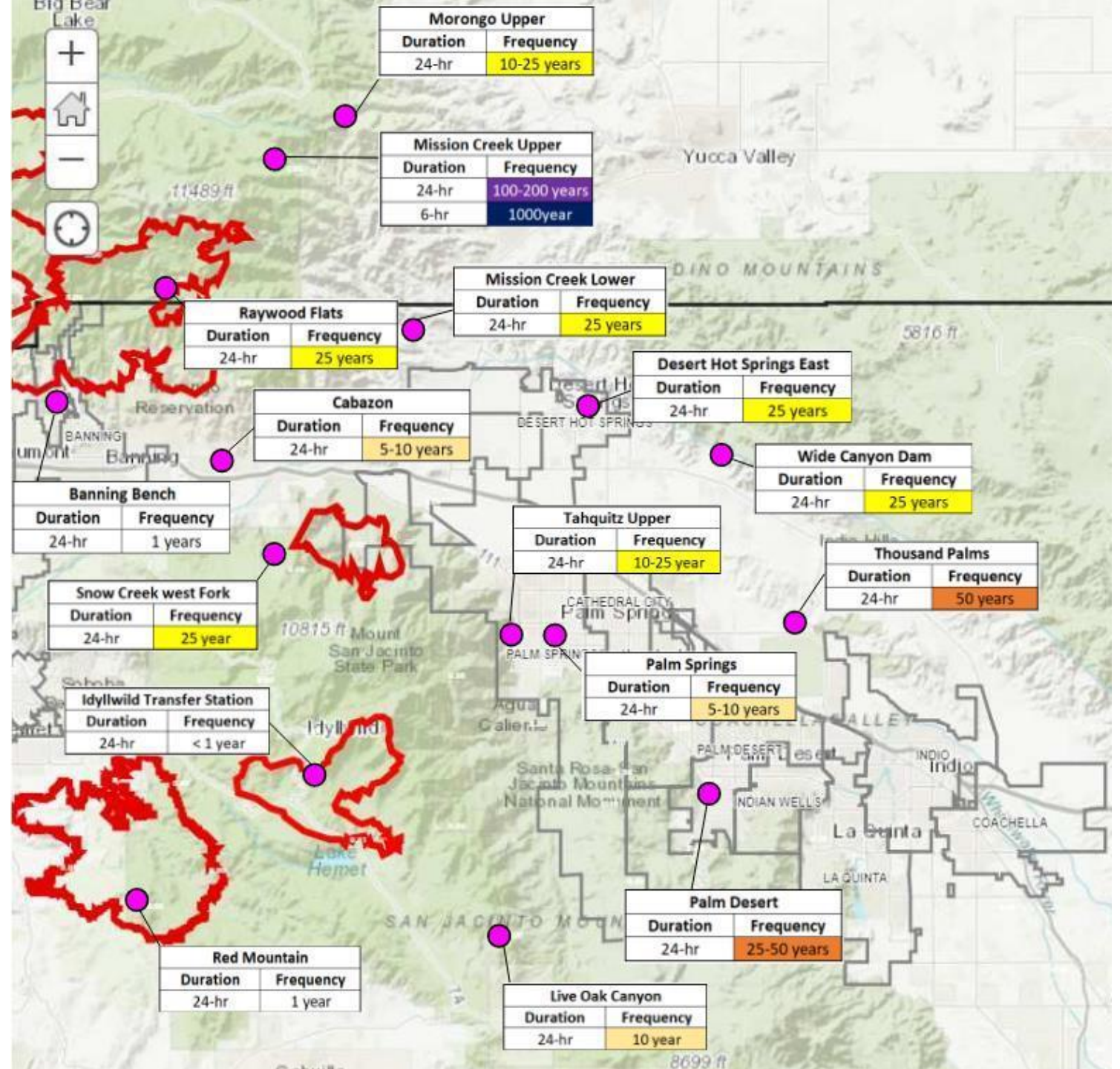
Coachella Valley

Tropical Storm Hilary

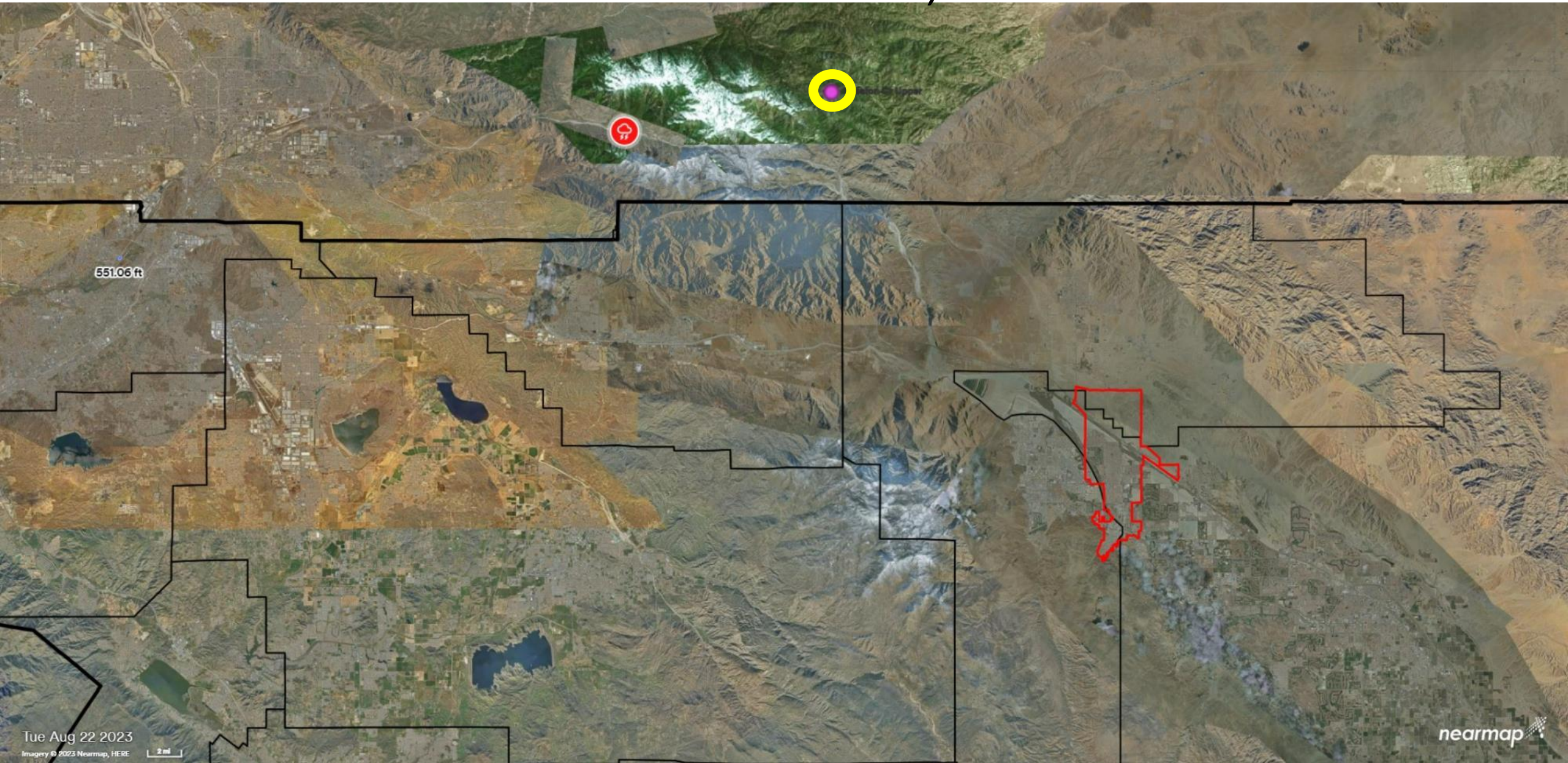
August 20, 2023

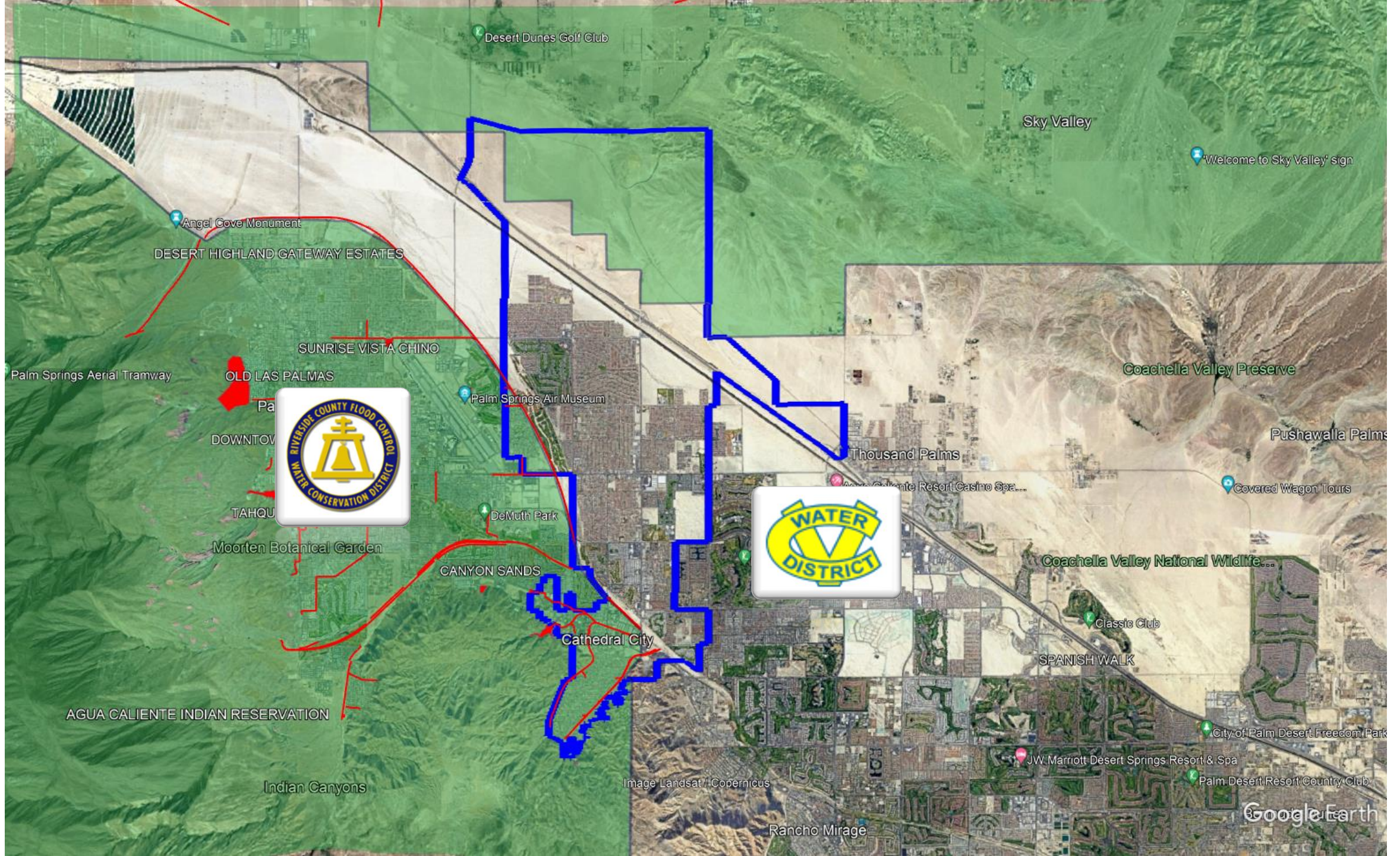
2-4" of rain in the valleys
4-13" of rain in mountains

Most Significant Rain:
Mission Creek
Upper Whitewater
13" of rain total
9" in 6 hours
1,000-year storm



Mission Creek – 13" rain – 1,000 Year Event





Desert Dunes Golf Club

Sky Valley

'Welcome to Sky Valley' sign

Angel Cove Monument

DESERT HIGHLAND GATEWAY ESTATES

SUNRISE VISTA CHINO

Palm Springs Aerial Tramway

OLD LAS PALMAS

Palm Springs Air Museum

DOWNTOWN

TAHQU

Moorten Botanical Garden

CANYON SANDS

DeMuth Park

Cathedral City

Thousand Palms

Agua Caliente Resort Casino Spa

'Covered Wagon' Tours

Coachella Valley Preserve

Pushawalla Palms

Coachella Valley National Wildlife Refuge

Classic Club

SPANISH WALK

AGUA CALIENTE INDIAN RESERVATION

Indian Canyons

Image Landsat / Copernicus

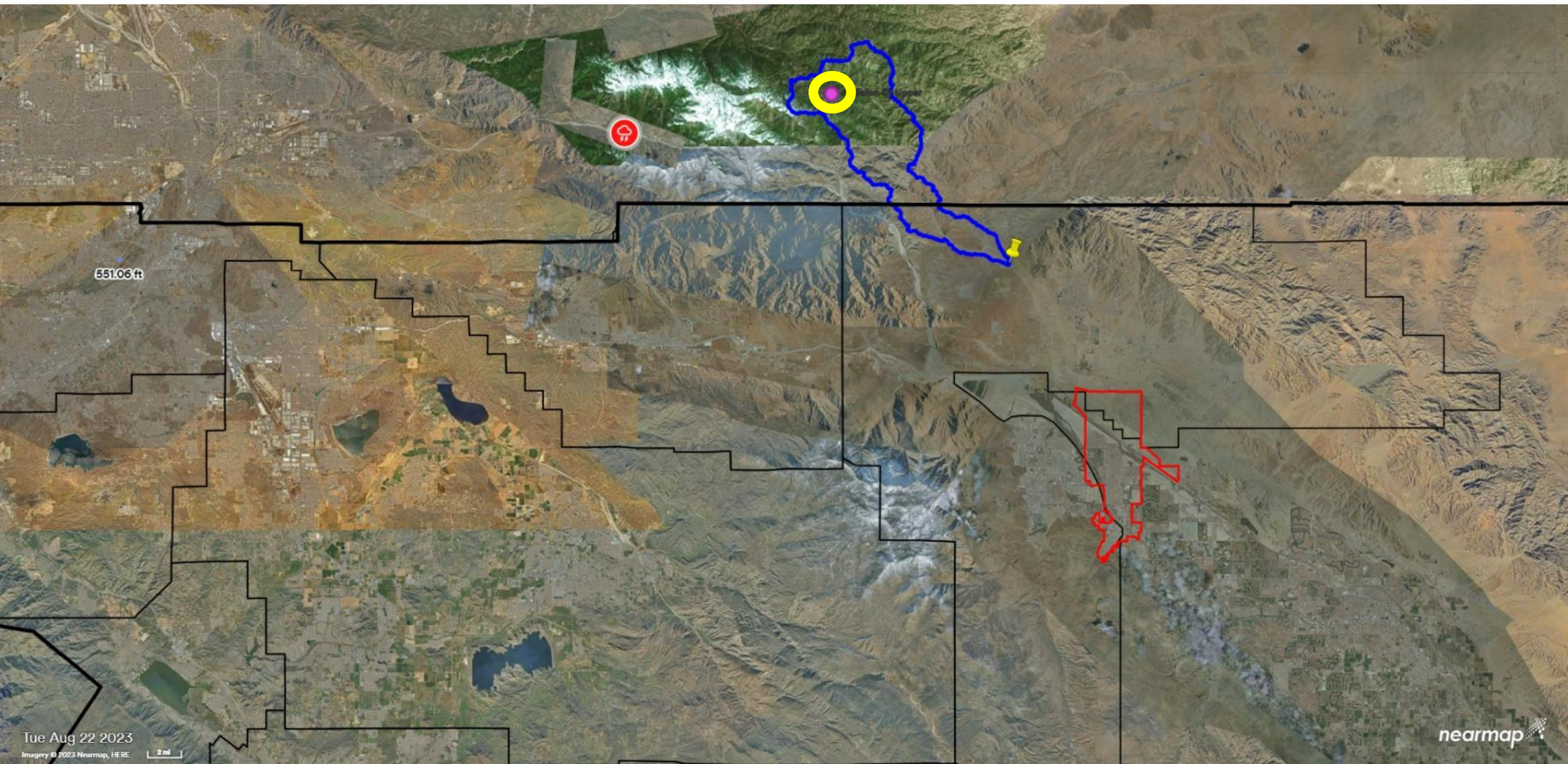
Rancho Mirage

JW Marriott Desert Springs Resort & Spa

Palm Desert Resort Country Club

City of Palm Desert Freedom Park

Google Earth



551.06 ft

Tue Aug 22 2023
Imagery © 2023 Nearmap, HERE

2 mi

nearmap

DEBRIS FLOW

Rapidly moving mix of water, mud, trees, and other materials that flows downvalley and can travel great distances.

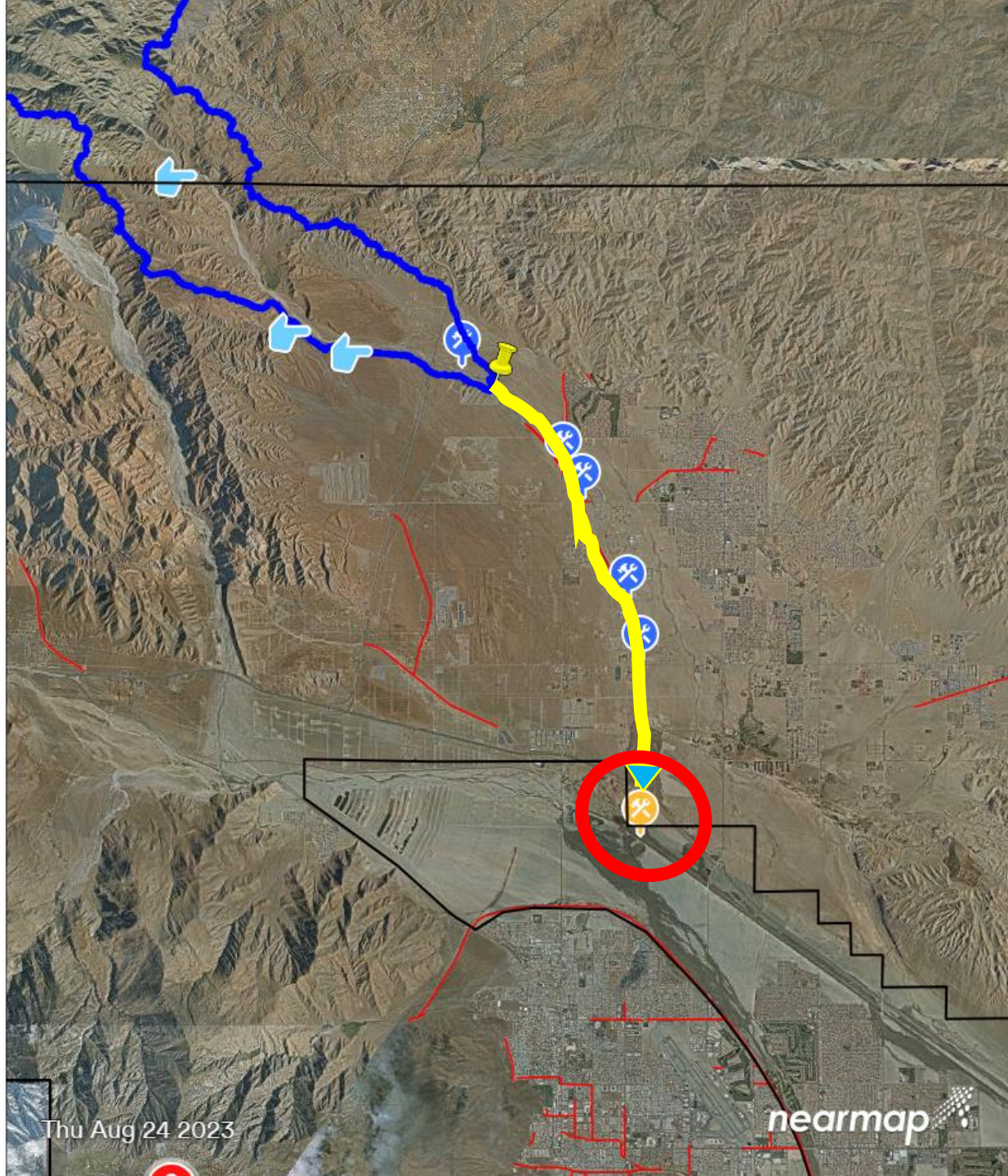


TYPES OF LANDSLIDES



Mission Creek Through Desert Hot Springs





Thu Aug 24 2023

nearmap

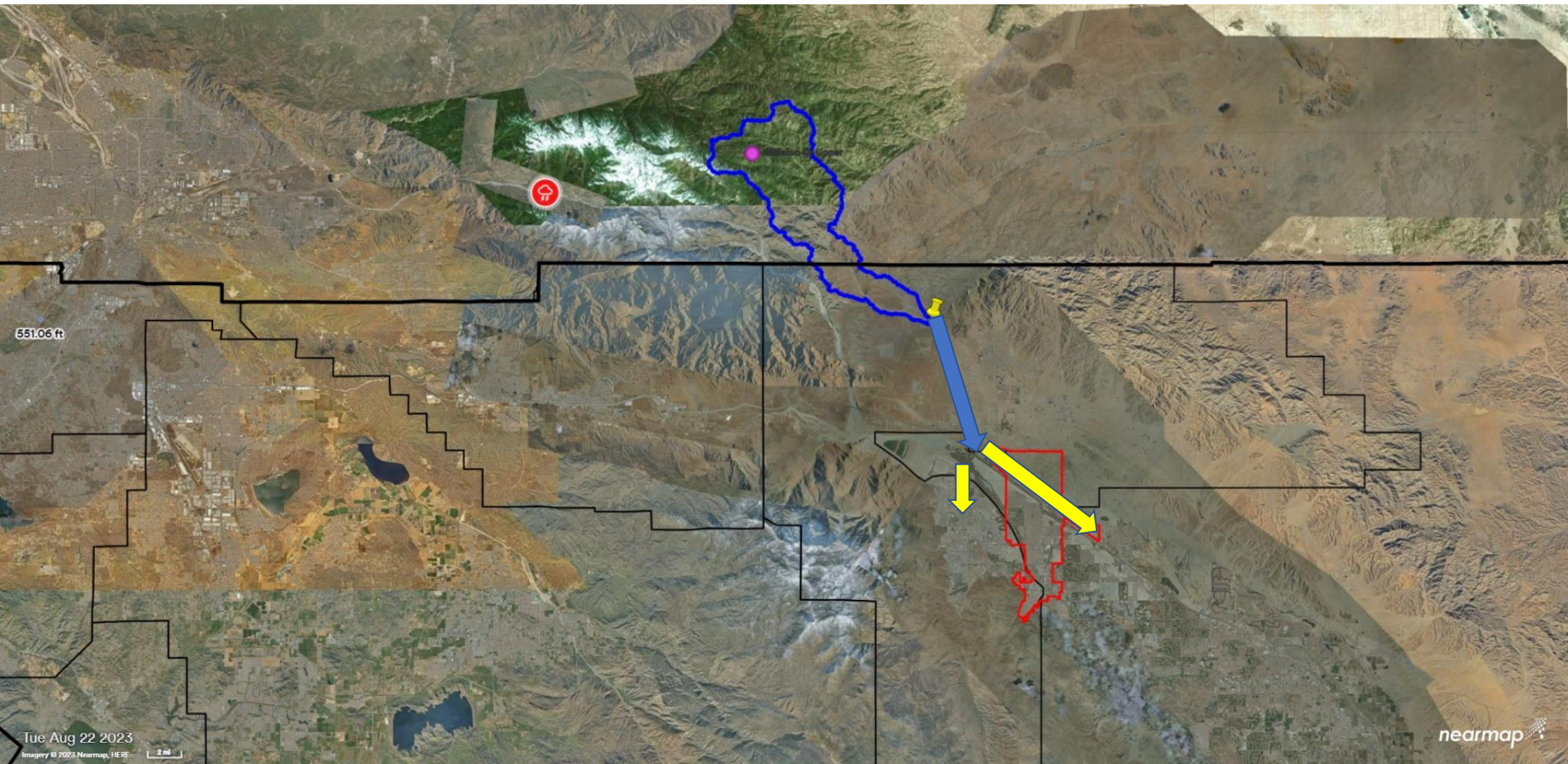


Mon Aug 21 2023

nearmap



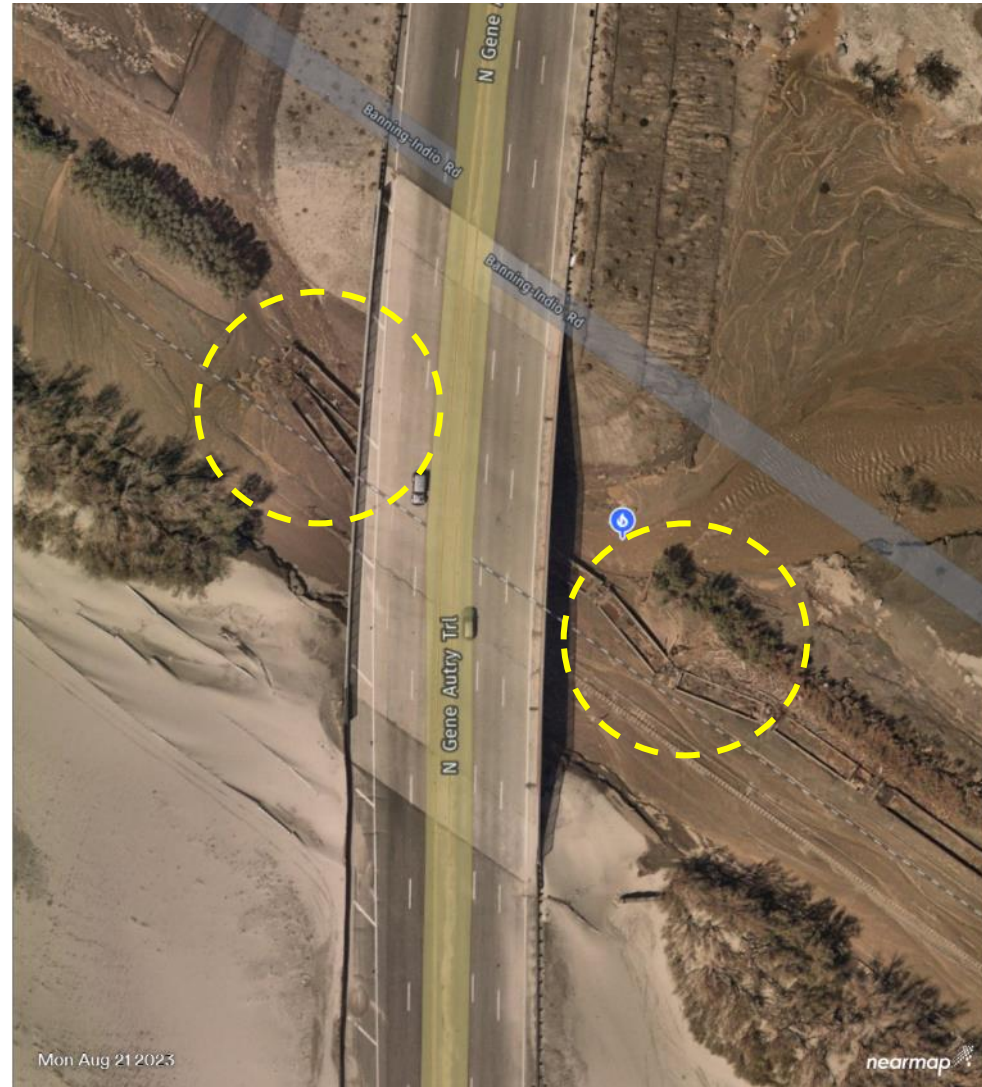
Bridge at creek in Montecito filled with debris from the January 9 deadly rains and mudflow (Photo by Blake Herman/SB County Fire via SBC Fire Info Twitter)



551.06 ft

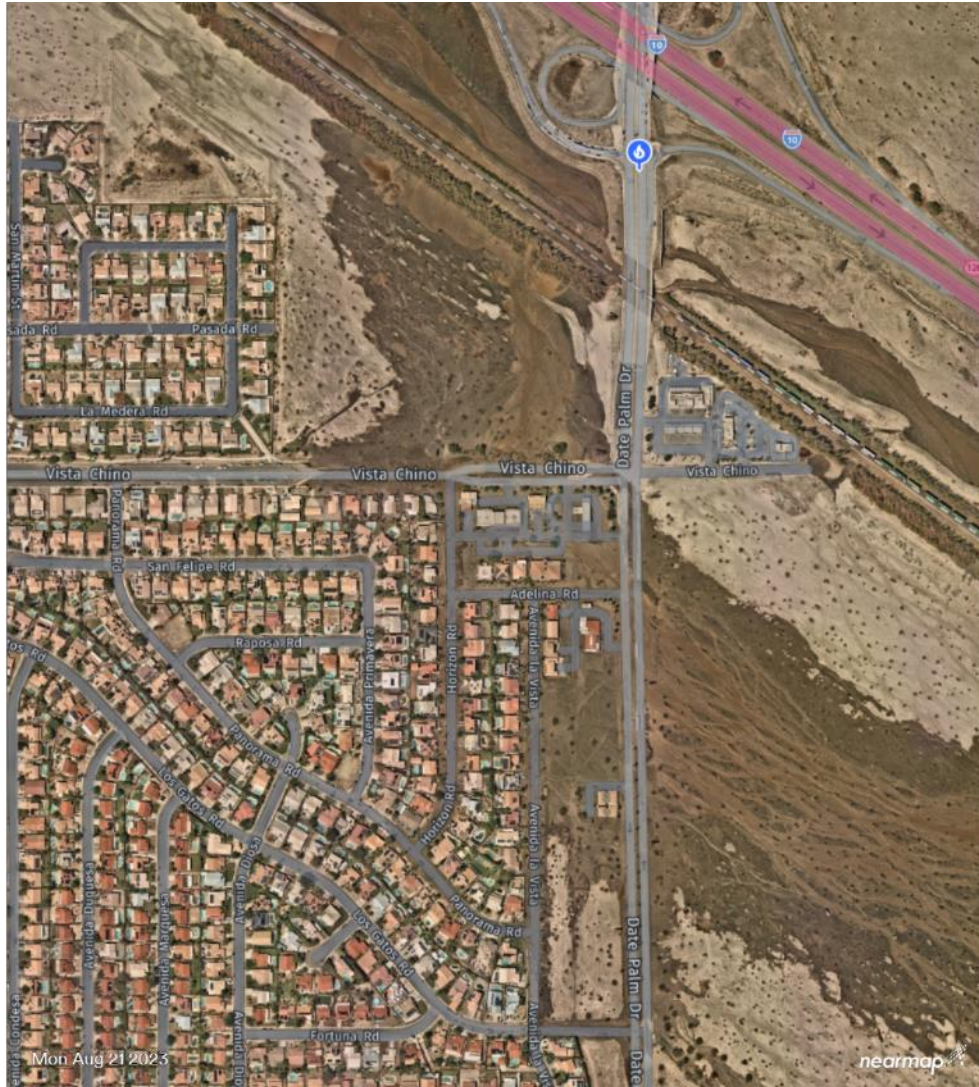
Train Derailments

N. Gene Autry Trail, Palm Springs



Cathedral City

Date Palm and Vista Chino



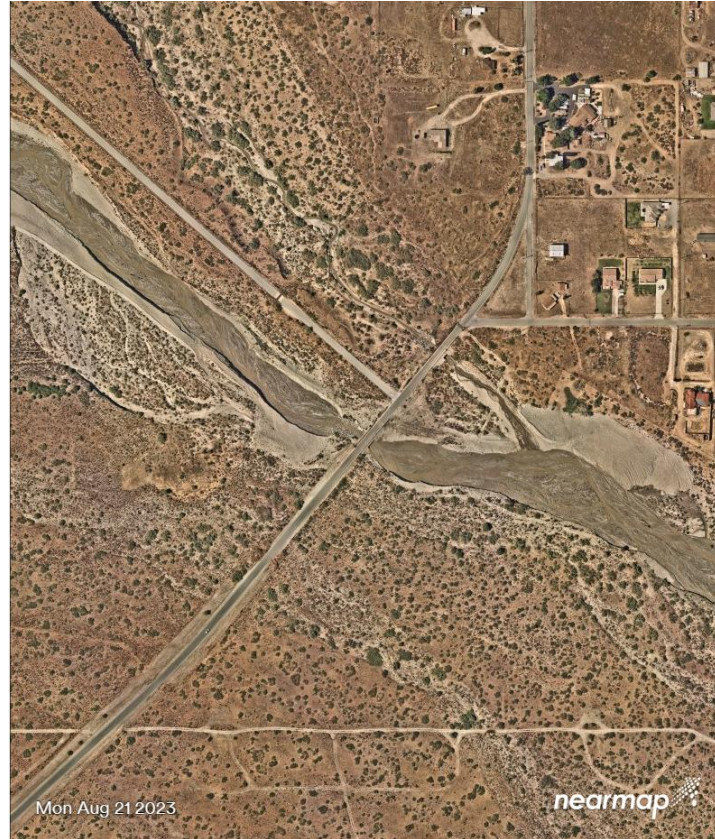
Date Palm and Ramon



San Gorgonio / Whitewater (5-10" of Rain)



Mias Canyon Road @ San Gorgonio River



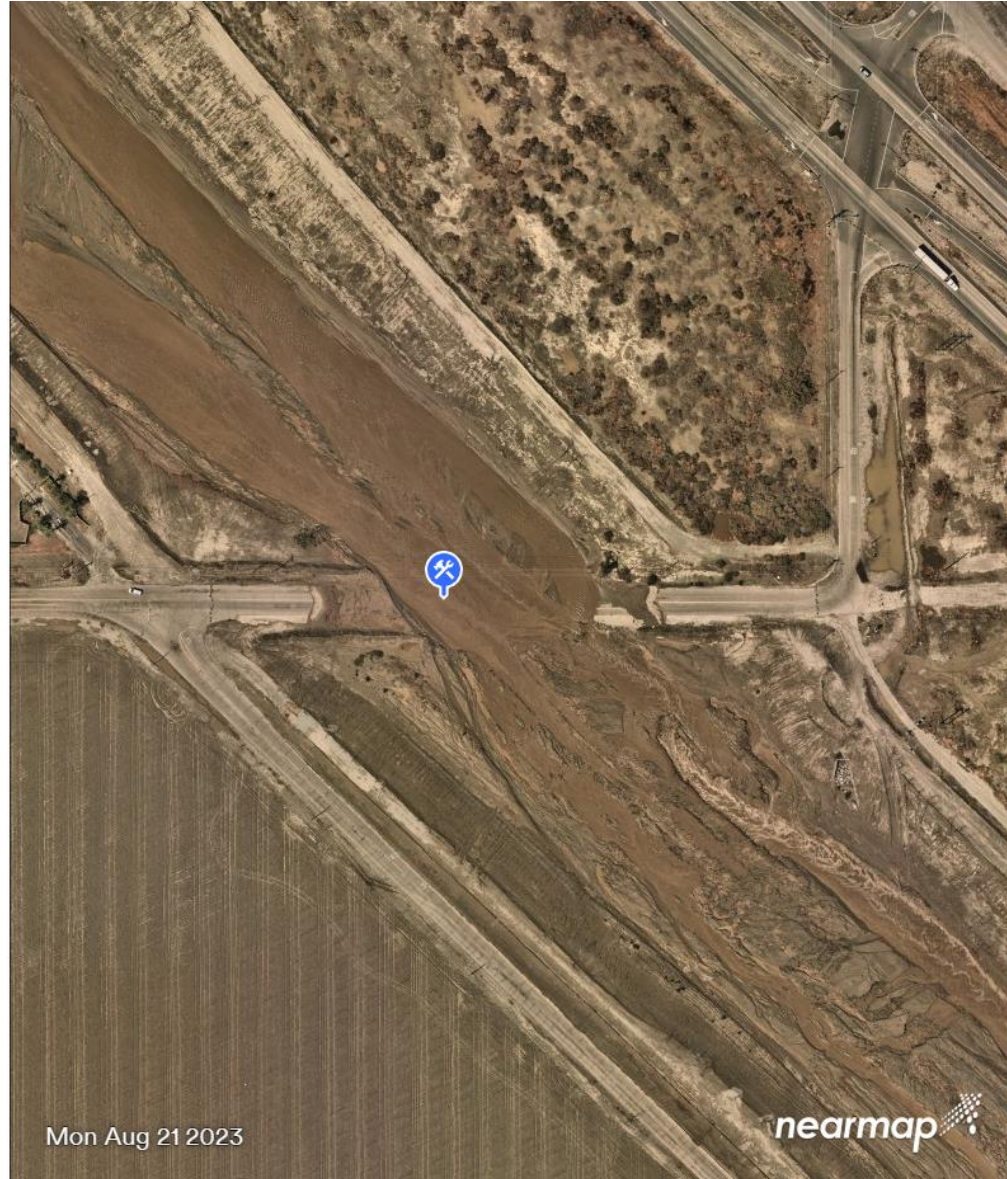
Morongo Road @ San Gorgonio River



Whitewater Rd Bridge Pier scoured and dropped

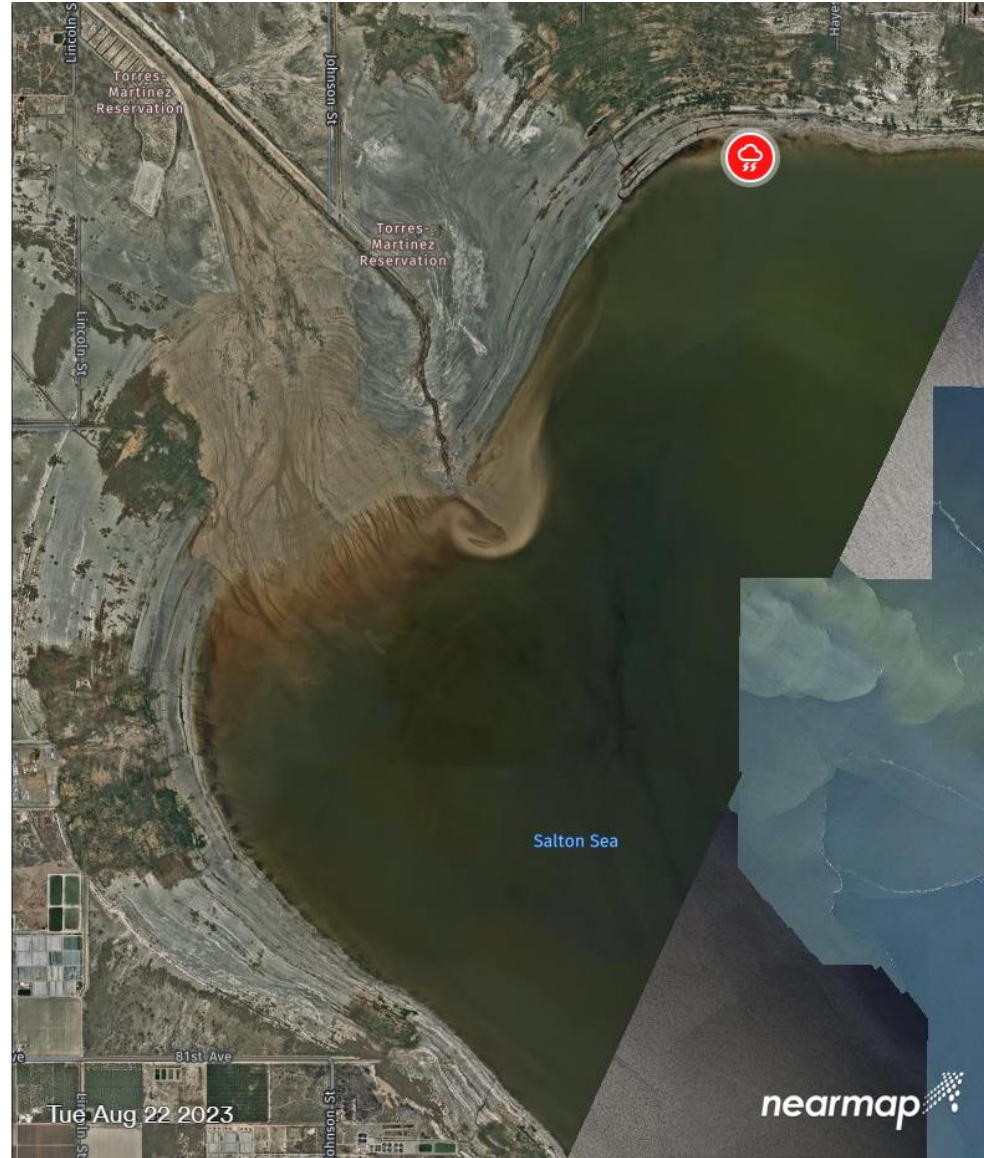
Coachella

Avenue 50 at Whitewater River



Salton Sea

Delta at Whitewater River



Zone 5 Budget Hearing

December 7, 2023



For attendees joining via TEAMS:

- Please keep your microphone muted until called upon.
- Handouts can be accessed from:
 - www.rcflood.org/cip

Flood Control



Storm Drains, Channels, Levees, Dams

Shared Responsibility for Flood Protection



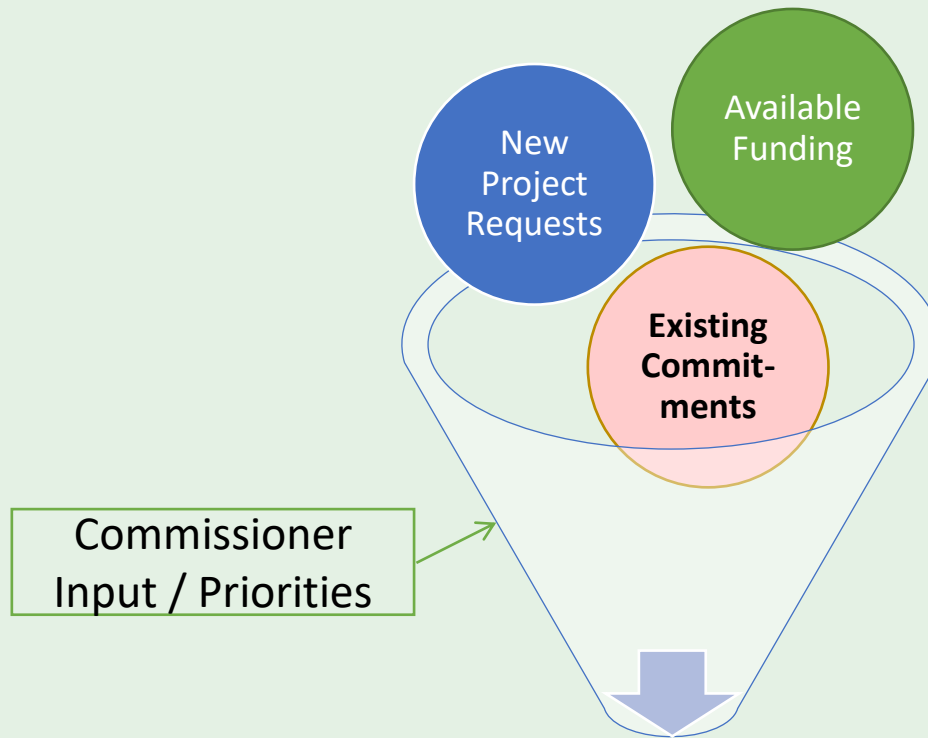
- Riverside County Flood
 - Dams, levees
 - Regional channels and storm drains
- Cities/County
 - Road culverts
 - Smaller storm drains ($\leq 36"$)
 - Catch basins (roadside inlets)
- Rural Property Owners/HOAs
 - Other drainage infrastructure
 - Natural washes



Hearing

New
Project
Requests

Hearing



District Staff Evaluate projects, costs, funding

Workshop





Available
Funding

Darrylenn Prudholme-Brockington

Chief of Finance Division

ZONE 5

DEBBIE FRANKLIN, 5th District
MICHAEL VALDIVIA, 5th District
WILLIAM "BILL" DAVIS, 5th District

The demand for infrastructure generally outpaces available financial resources leaving many unmet needs.

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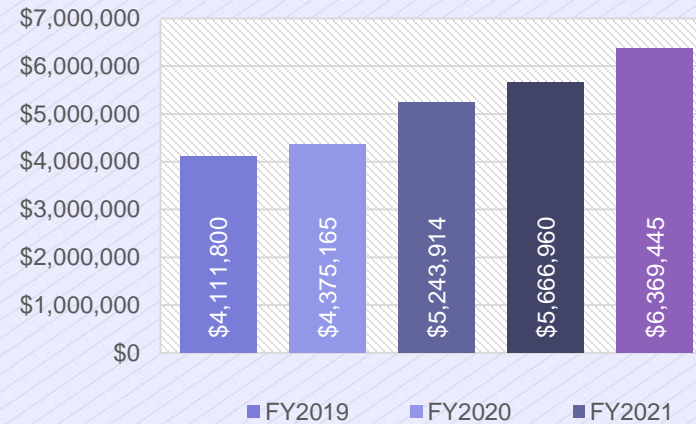


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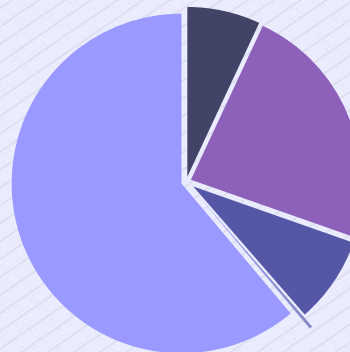
Property Taxes (5 year trend)



Uses

(How the money is used)

TOTAL \$11,918,000



Sources

(Where the money comes from)

TOTAL \$7,955,000





ZONE 5

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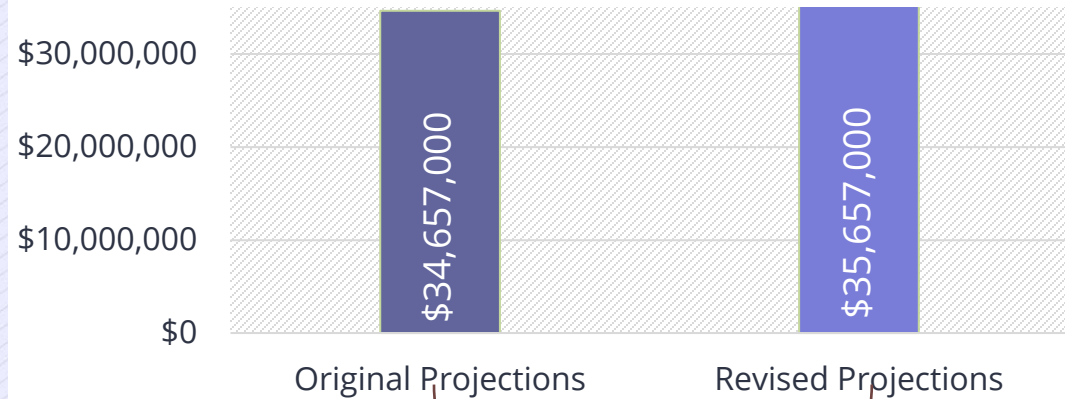
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**Forecasting
FY24-25 thru FY28-29**

Original Projections vs. Revised Projections Additional Property Tax Revenue Available



**Forecasting \$7,571,000 to be available for Cost Increases
on Existing Projects and New Requests**



**Existing
Commitments**

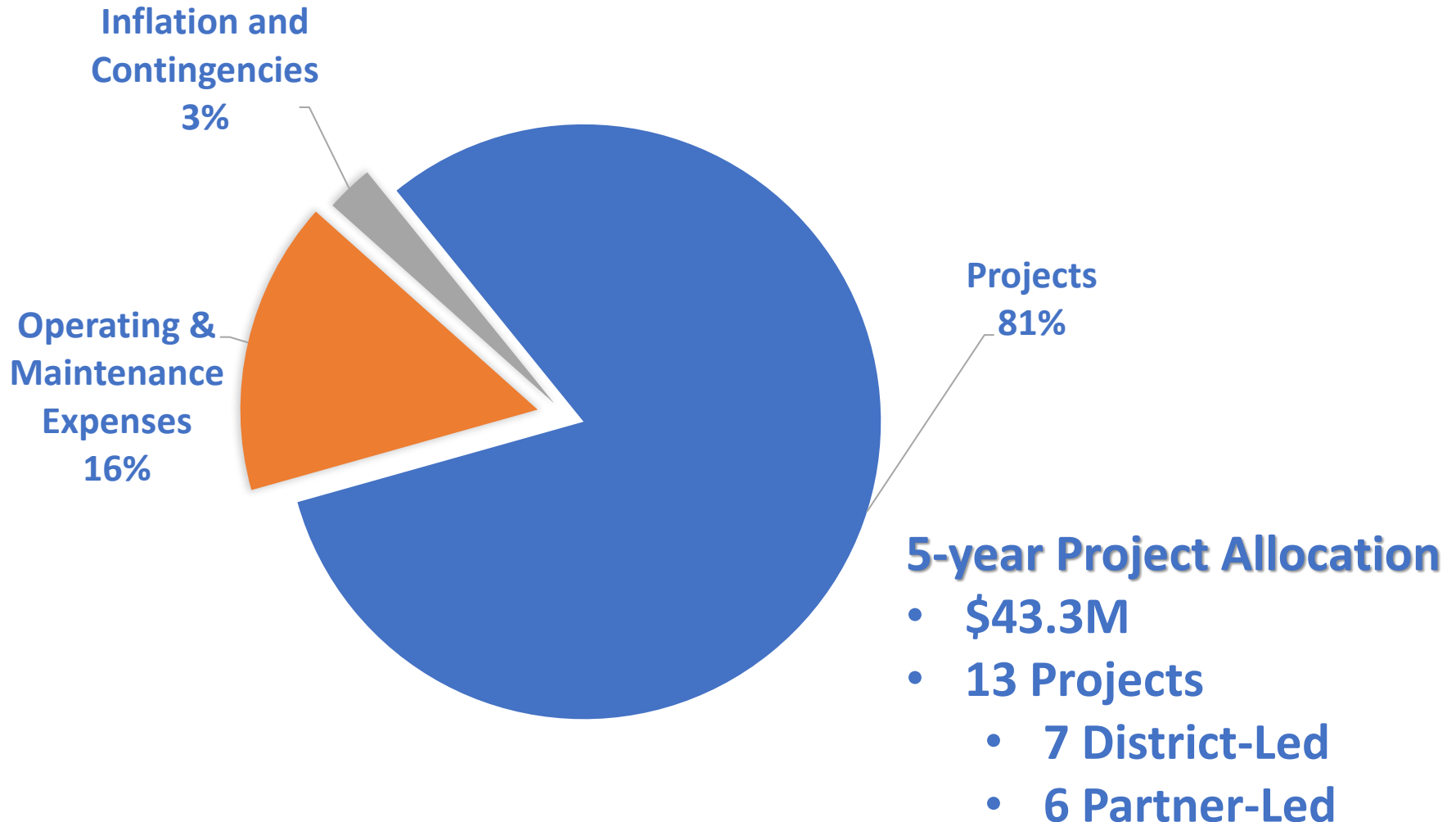


District Projects



Komy Ghods
Chief of Design

5-Year Allocations per CIP



**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DISTRICT LED PROJECT SUMMARY - ZONE 5
FISCAL YEARS 2023-24 THROUGH 2027-28**

Project Number	Stg No.	Project Title	Project Cost	Appropriations		Funding Sources (5-Year Total)			Total NOT
			Total Remaining Cost	FY 2023-24 Year 1	FY 2025-28 Years 2-5	Tax Revenue	ADP Contribution	External Contribution	District Funded
DESIGN & CONSTRUCTION PROJECTS									
5-8-00080	01	MARSHALL CREEK	\$8,500,442	\$591,162	\$7,909,280	\$8,500,442	\$0	\$0	\$0
DESIGN & CONSTRUCTION PROJECTS			\$8,500,442	\$591,162	\$7,909,280	\$8,500,442	\$0	\$0	\$0
PLANNING PROJECTS									
5-6-10000	00	SMITH CRK PERSHING CRK STUDY	\$325,000	\$225,000	\$100,000	\$325,000	\$0	\$0	\$0
5-8-00010	90	LITTLE SAN GRGNIO CRK POST FIR	500,000	0	500,000	500,000	0	0	0
5-8-00020	93	NOBLE CRK BOLLARD REM POST FIR	750,000	0	750,000	750,000	0	0	0
5-8-09026	00	W PERSHING CH LINE K AND LATS	6,270,253	0	6,270,253	6,270,253	0	0	0
5-8-09027	01	EAST GILMAN HOME CH DB	3,591,510	0	3,591,510	3,591,510	0	0	0
5-8-09031	02	BEAUMONT MDP LN 2 STG 2 & 2-A	2,837,296	0	2,837,296	2,837,296	0	0	0
PLANNING PROJECTS			\$14,274,059	\$225,000	\$14,049,059	\$14,274,059	\$0	\$0	\$0
ZONE 5 DISTRICT LED PROJECT TOTALS			\$22,774,501	\$816,162	\$21,958,339	\$22,774,501	\$0	\$0	\$0

FIVE-YEAR CIP SUMMARY

FUND BALANCE FORWARD - JULY 1, 2023:	\$17,721,255
REVENUE:	
Taxes	\$34,656,725
Interest	\$1,221,468
Subtotal Revenue	\$35,878,193
External Contribution	\$0
Total Five Year Revenue	\$35,878,193
Total Funds Available	\$53,599,448

APPROPRIATIONS:	
District Led Project Appropriations	\$22,774,501
Partner Led Project Appropriations	\$20,585,402
Capital Project Cost Inflation	\$701,558
Operating & Maintenance Expenses	\$8,491,849
Contingencies	\$665,709
Total Five Year Appropriations	\$53,219,019
ENDING FUND BALANCE - JUNE 30, 2028:	\$380,429

Existing Commitments

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
PARTNER LED PROJECT SUMMARY - ZONE 5
FISCAL YEARS 2023-24 THROUGH 2027-28**

Project Number	Stg No.	Project Title	Project Cost	Appropriations				Funding Sources			Total NOT District Funded
			Total Remaining Cost	FY 2023-24 Year 1		FY 2025-28 Years 2-5		5-Year Total			
				District Direct Cost	Contribution to Partner Agency	District Direct Cost	Contribution to Partner Agency	Tax Revenue	ADP Contribution	External Contribution	
PARTNER LED CONTRIBUTION PROJECTS											
5-6-10001	00	BANNING WTR CYN SW PRC BSN E R	\$1,000,000	\$0	\$750,000	\$0	\$0	\$750,000	\$0	\$0	(\$250,000)
5-6-10027	00	SAN GORGONIO IRWM	140,000	0	30,000	0	110,000	140,000	0	0	0
PARTNER LED CONTRIBUTION PROJECTS			\$1,140,000	\$0	\$780,000	\$0	\$110,000	\$890,000	\$0	\$0	(\$250,000)
PARTNER LED CAPITAL IMPROVEMENT PROJECTS											
5-8-00160	03	CALIMESA CHANNEL STG 3	\$8,471,994	\$0	\$4,000,000	\$125,177	\$4,346,817	\$8,471,994	\$0	\$0	\$0
5-8-00195	01	BEAUMONT MDP LINE 2 STAGE 1	6,242,476	0	247,694	125,520	5,869,262	6,242,476	0	0	0
5-8-00170	06	GILMAN HOME CHANNEL STG 6	3,155,564	0	0	234,585	2,920,979	3,155,564	0	0	0
5-8-00170	07	GILMAN HOME CHANNEL STG 7	1,825,368	0	0	215,714	1,609,654	1,825,368	0	0	0
PARTNER LED CAPITAL IMPROVEMENT PROJECTS			\$19,695,402	\$0	\$4,247,694	\$700,996	\$14,746,712	\$19,695,402	\$0	\$0	\$0
ZONE 5 PARTNER LED PROJECT TOTALS			\$20,835,402	\$0	\$5,027,694	\$700,996	\$14,856,712	\$20,585,402	\$0	\$0	(\$250,000)

Existing Commitments

Zone 5
Report to the Zone Commissioners
By Jason E. Uhley, General Manager-Chief Engineer
November 2023

Completed Projects

Beaumont MDP Line 16, Stage 1 (5-8-00201-01)

This District-led project constructed storm drain and water conservation elements as a joint project with Beaumont-Cherry Valley Water District (BCVWD). The project construction was completed in May 2023. Storm flows are collected in Bellflower Avenue, Winesap Avenue, Jonathan Avenue, Cherry Avenue, Nobel Street and Grand Avenue and safely conveyed westerly to an existing recharge basin owned and operated by BCVWD. Flows that reach the basins help recharge the groundwater basin and become available for future pumping to meet the community's water needs. The project was partially funded by the Proposition 84 Integrated Regional Water Management Grant equating to approximately \$1.2 million, with the remainder split equally between BCVWD and the District.

Active District-Led Projects

Marshall Creek, Stage 1 (5-8-00080-01)

This is a District-led storm drain improvement project in unincorporated Riverside County that aims to provide 100-year flood protection to residents, property and infrastructure. The project is anticipated to consist of a 2,500 foot trapezoidal channel located to the south of the street right of way at the intersection of Brookside and Winesap Avenues. The trapezoidal channel will collect and convey flows west along Brookside Avenue before connecting to a proposed reinforced concrete box (RCB) beginning at Brookside Avenue and Cherry Avenue. The RCB will proceed west along Brookside Avenue and turn south at Nobel Street. It will replace the existing trapezoidal concrete channel and outlet into the existing Marshall Creek Channel, both belonging to the City of Beaumont. The overall system of Marshall Creek Channel (including future stages) will result in 100-year flood protection to the community along the alignment. The District will be responsible for operation and maintenance of the storm drain improvements. This project is funded by the District and the City of Beaumont. A Preliminary Design Report is being prepared to analyze proposed alternative alignments and select a preferred alternative.

Closing Out Emergency Projects

Finalizing last efforts

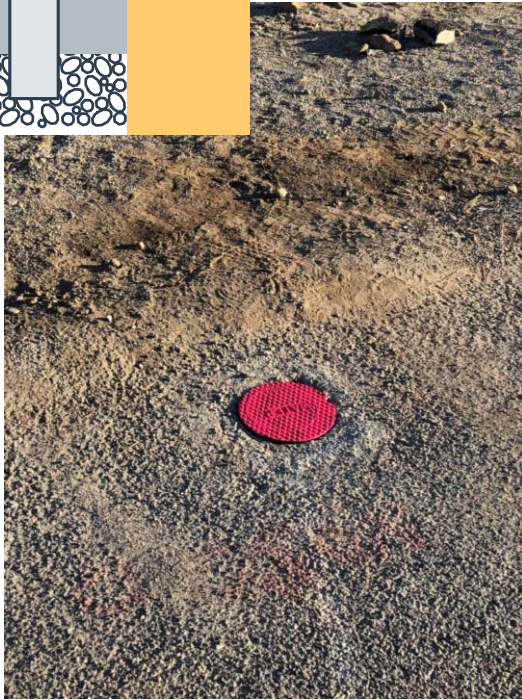
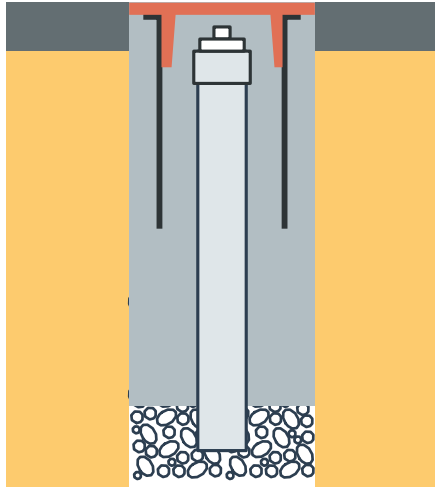


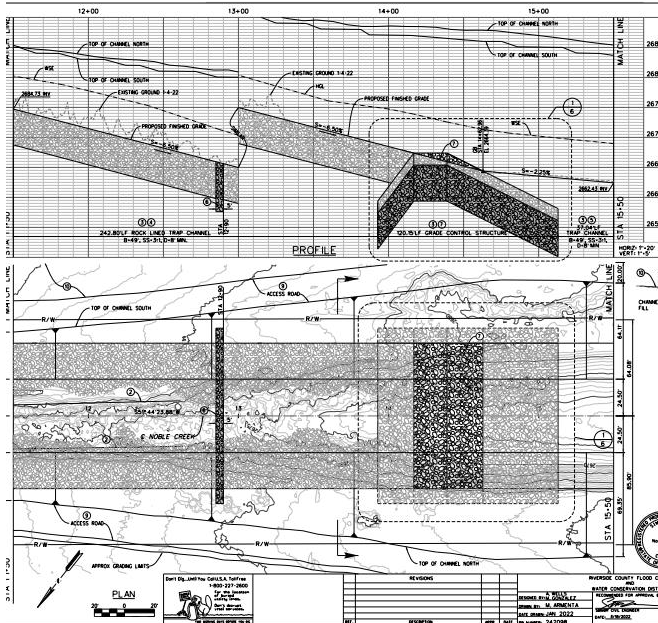
Apple & El Dorado Fires











Noble Creek – Emergency Work

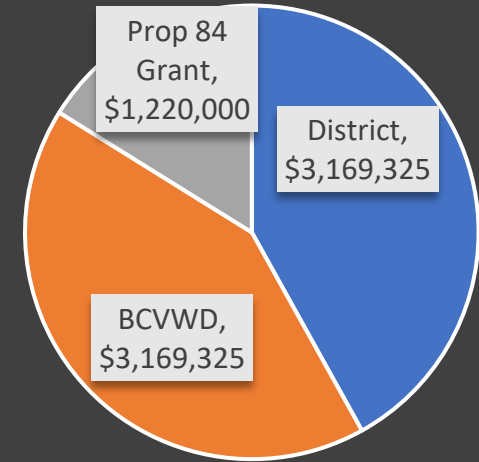
Construction Projects

Completed and Pending



Beaumont MDP Line 16

Funding Sources



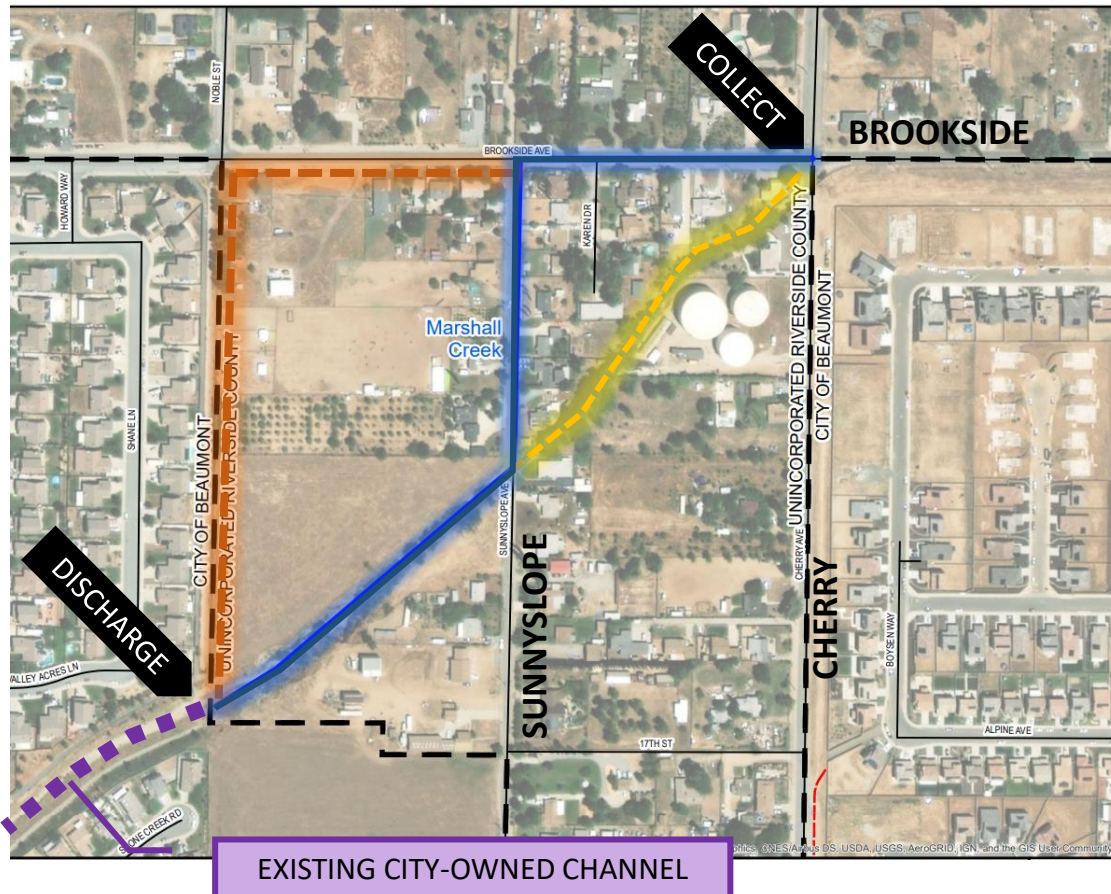
- Cooperative project with Beaumont-Cherry Valley Water District
- Awarded to H&H General Contractors for \$7.6M

Construction Start February 2022, Complete by June 2023.

In Design




Marshall Creek Channel



- Alternatives Analysis Underway

ALTERNATIVE
ALIGNMENTS

- In Active Design now
- Current Estimates \$13.2M



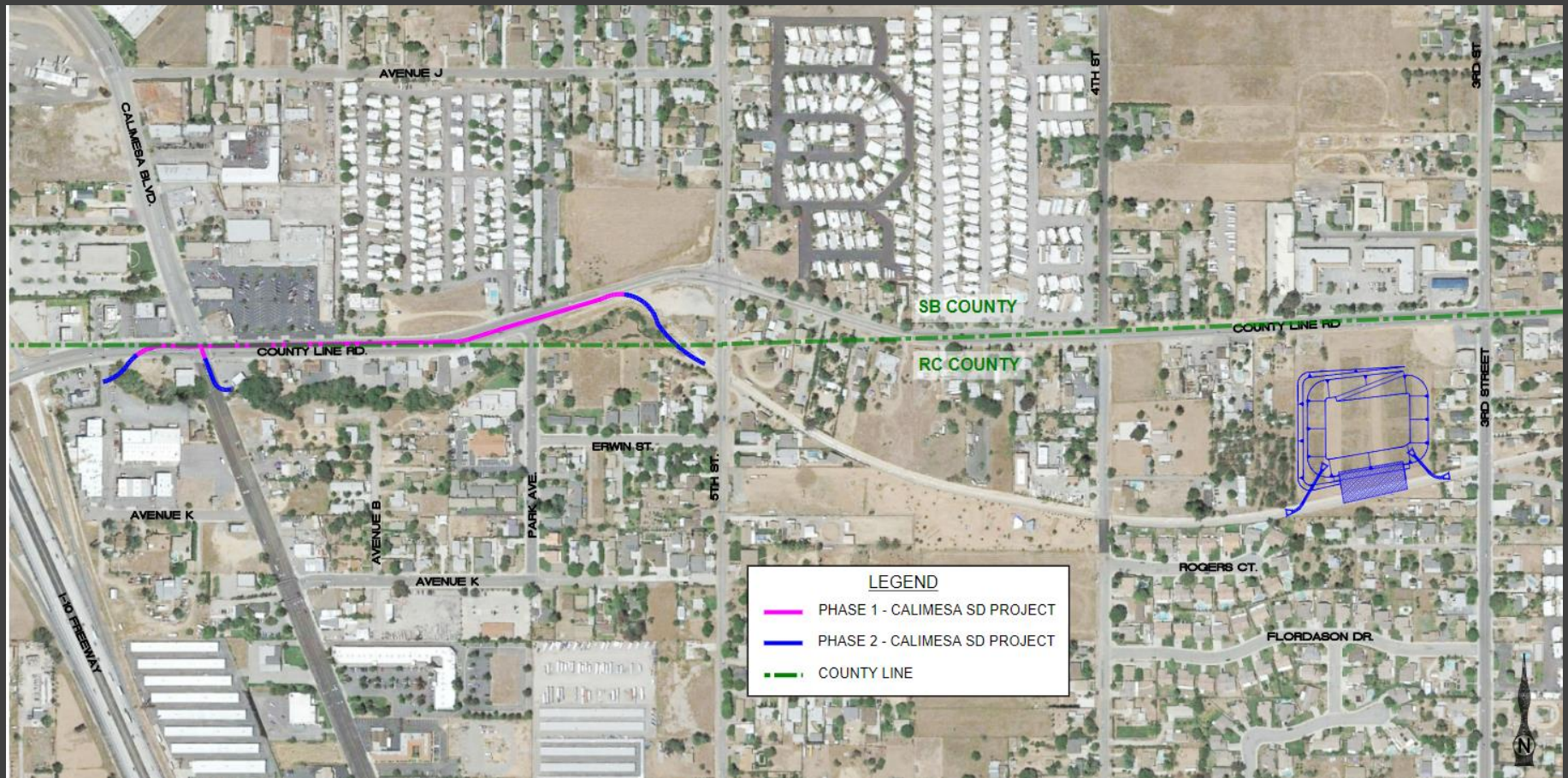
**Existing
Commitments**



Partner Projects



Deborah de Chambeau
Chief of Planning



Calimesa Channel Stage 3

90% design plans
Construction will be phased

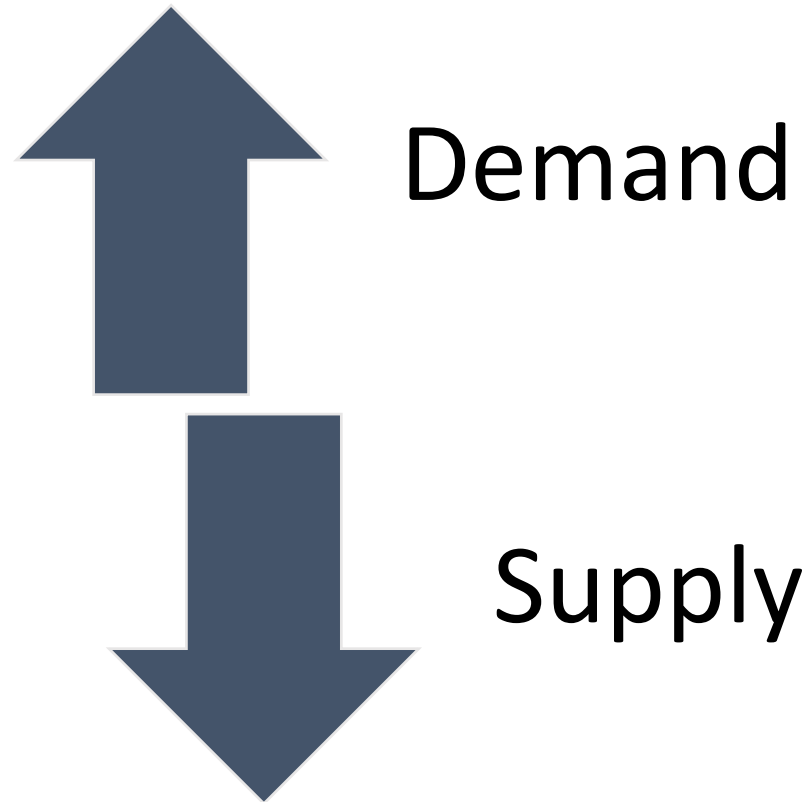


Beaumont Line 2

The background of the slide is a blurred image of a document. It features a line graph with a jagged, fluctuating line. A pen is visible in the upper right corner, positioned as if it has just finished drawing or is about to draw. The overall color scheme is a muted blue-grey.

Recent Activity and Trends

Recent Issues



- Construction Costs
 - 25-30% increase
- Construction Delays
 - 3-8 month lead times
- Est. inflation (\$9M) may absorb all available funds



New Project
Requests

Public Hearing

New Project Requests Received *(to date)*

Total: \$8.1M

City of Beaumont +\$7.5M

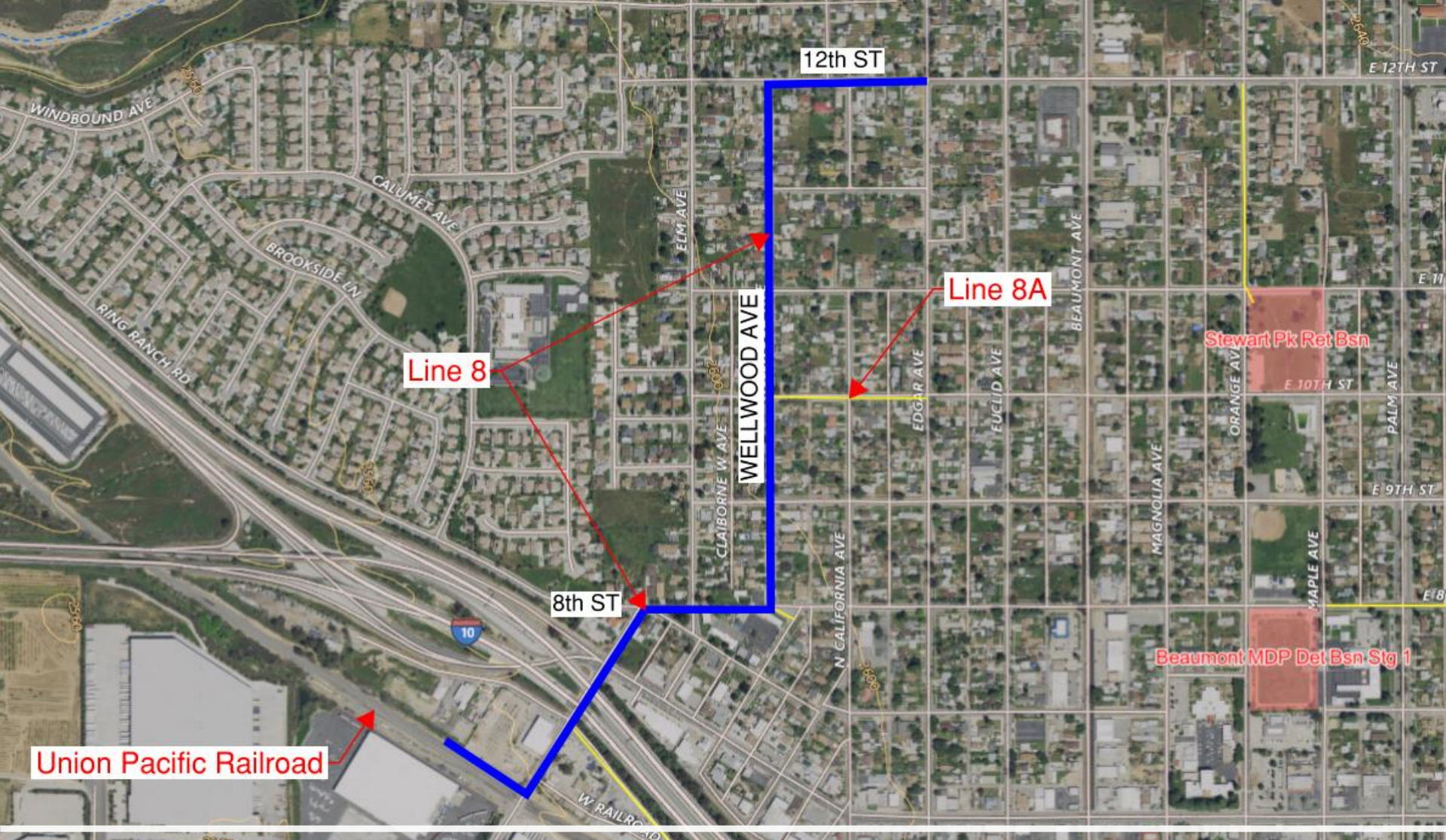
- Beaumont MDP Line 8 (New Funding Request \$7.5M)

City of Calimesa +\$0.5M

- Calimesa Master Drainage Plan (New Funding Request \$0.5M)

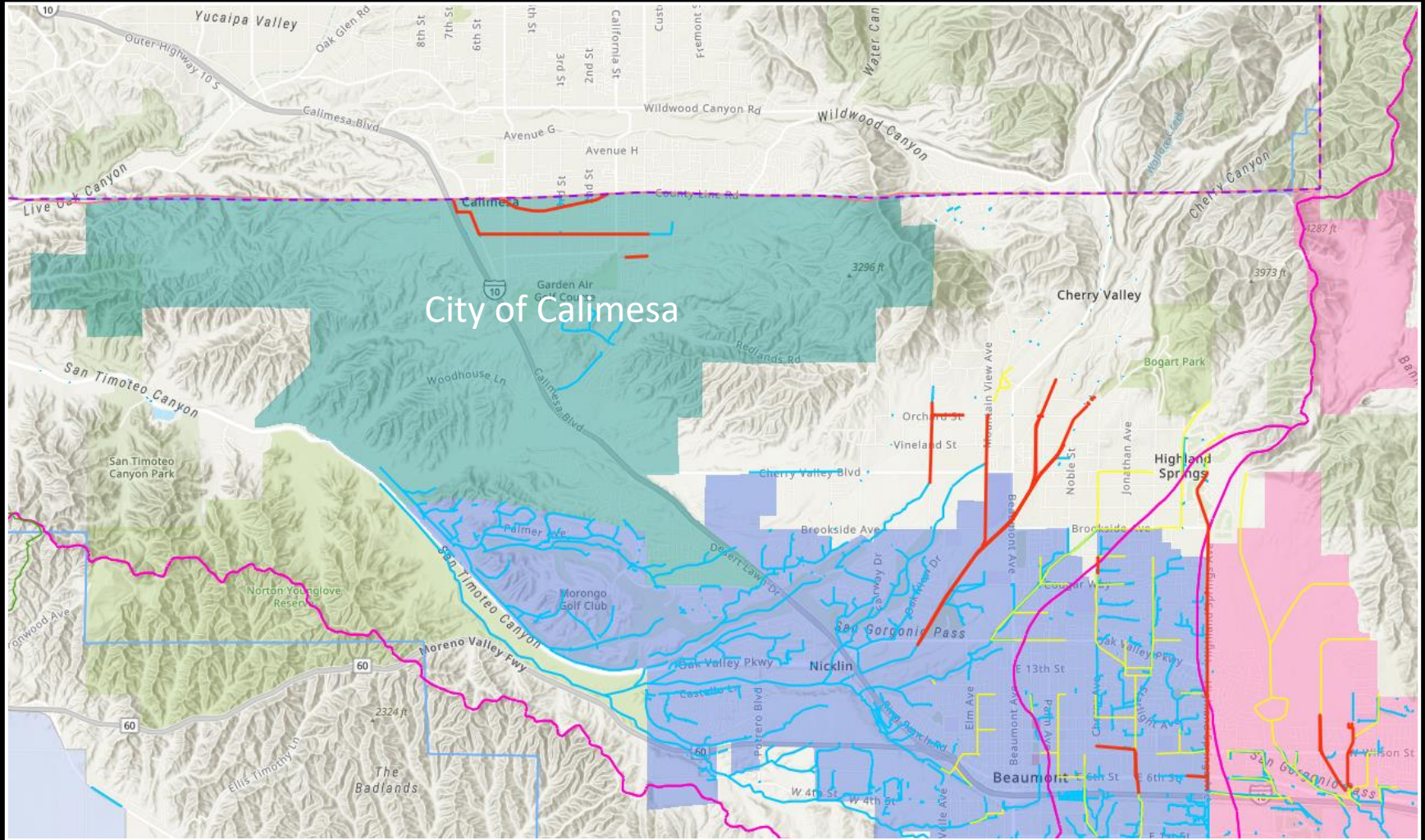
Yucaipa Valley Water Dist. +\$100K

- Calimesa Golf Course Stormwater Capture and Recharge Study (New Request +\$100K)

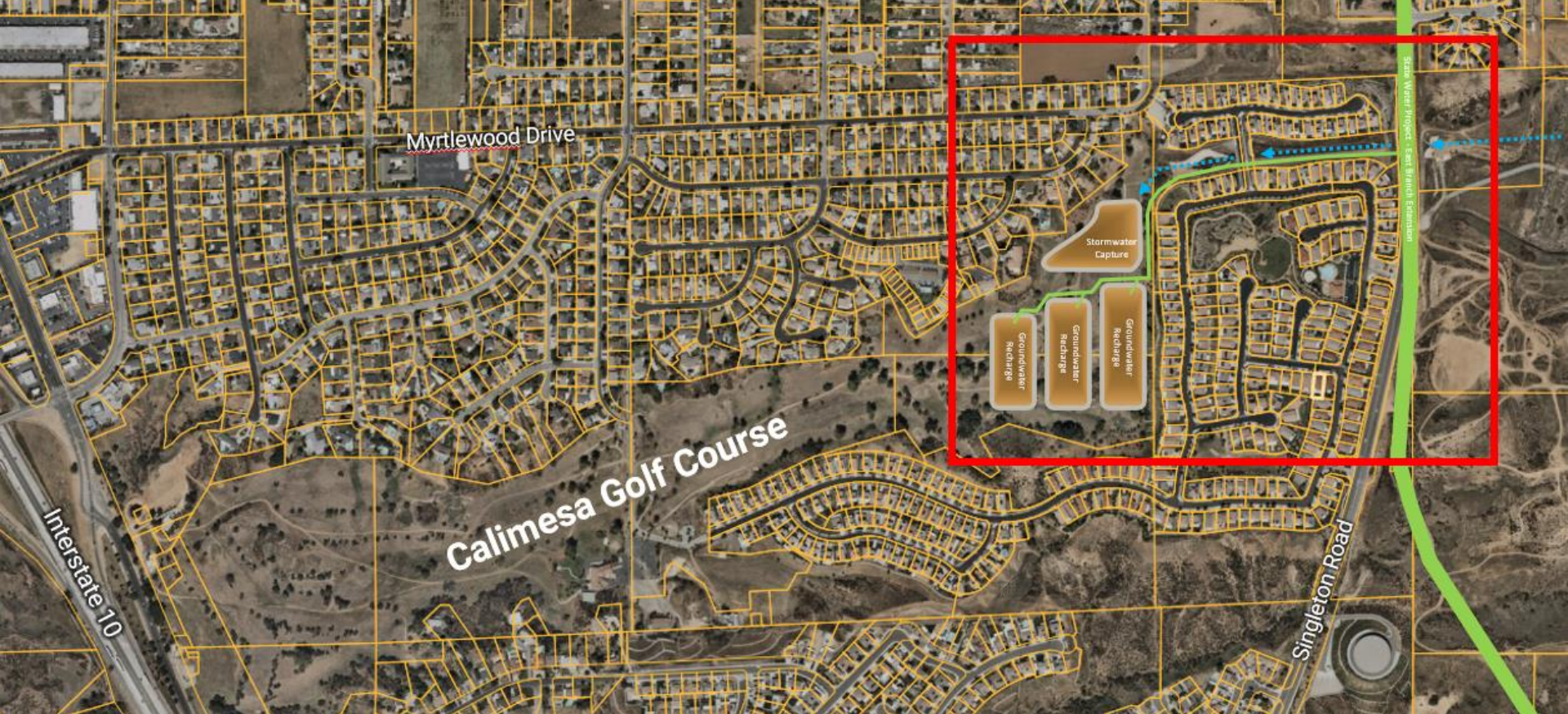


Beaumont MDP Line 8





Calimesa Master Drainage Plan



Calimesa Golf Course Stormwater Capture and Recharge

