

CITY OF REDLANDS
MUNICIPAL UTILITIES/PUBLIC WORKS COMMISSION
MEETING AGENDA
MONDAY, OCTOBER 2, 2023

ADEKUNLE OJO
Chairperson

STEVE STOCKTON
Vice Chairperson

ROBERT MEALS
Commissioner

ZACHARY TRAVIS
Commissioner

THOMAS BREITKREUZ
Commissioner

DAVID GARCIA
Commissioner

**CHANDRASEKAR 'CV'
VENKATRAMAN**
Commissioner

4:00 PM Open Public Meeting
City Council Chambers
Civic Center
35 Cajon Street
Redlands, California

JOHN R. HARRIS
Municipal Utilities
& Engineering
Director

GOUTAM K. DOBEY
City Engineer

FERNANDO MATA
Wastewater Utility
Manager

PAUL MARISCAL
Water Utility
Manager

Anyone desiring to speak on an agenda item at this meeting may do so during the consideration of that item. Due to time constraints and the number of persons wishing to give oral testimony, public comments will be limited to three (3) minutes.

- *To provide comment, simply raise your hand to speak*

The following comprises the agenda for the regular meeting of the Municipal Utilities/Public Works Commission of the City of Redlands.

CITY OF REDLANDS
MUNICIPAL UTILITIES/PUBLIC WORKS COMMISSION
MEETING AGENDA
MONDAY, OCTOBER 2, 2023

A. ATTENDANCE & CALL TO ORDER

B. PUBLIC COMMENT

(Any person wishing to provide public comment may do so at this time.)

C. APPROVAL OF MINUTES

- a. **August 7, 2023 Regular Meeting Minutes**

D. COMMUNICATIONS

- a. **Director's Report**
- b. **San Bernardino Valley Municipal Water District Annual Update**

E. NEW BUSINESS

F. COMMISSIONER ANNOUNCEMENTS, REPORTS ON ACTIVITIES, AND/OR REQUEST FOR FUTURE AGENDA ITEMS

G. ADJOURNMENT – Next Meeting is December 4, 2023 @ 4:00 pm

ATTACHMENTS:

- 1. Draft Minutes of June 5, 2023 Regular Meeting**
- 2. Director's Report**



DRAFT
(for MUPWC review on 10/2)
MINUTES

Regular meeting of the City of Redlands Municipal Utilities/Public Works Commission on August 7, 2023 at 4:00 PM in the Council Chambers at the Civic Center, 35 Cajon Street. The meeting was an in-person meeting.

A. ATTENDANCE & CALL TO ORDER

Present: Adekunle Ojo, Chairperson
Steve Stockton, Vice Chairperson
David Garcia, Commissioner
Chandrasekar 'CV' Venkatraman, Commissioner
Thomas Breitreuz, Commissioner
Robert Meals, Commissioner

Absent: Zachary Travis, Commissioner

City Council
Liaison: Mario Saucedo, City Council Member

Staff: John Harris, Municipal Utilities & Engineering Director; Goutam Dobey, City Engineer; Johana Silva, Commission Liaison/Associate Engineer; Fernando Mata, Wastewater Utility Manager; Jungjoon Park, Joint Utilities Laboratory Manager

Chairman Ojo called the meeting to order at 4:01 PM.

B. PUBLIC COMMENT

None.

C. APPROVAL OF MINUTES

Commissioner Garcia commented on corrections within the minutes. On the motion by Commissioner Stockton, seconded by Commissioner CV, the minutes of the regular meeting of June 5, 2023, were approved.

Vote: 6 – 0 Passed

D. COMMUNICATIONS

a. Director's Report

Director Harris welcomed everyone to the meeting and provided highlights to his Director's Report.

Updates were provided on the following:

City Groves Irrigation Conversion: The Palmetto Groves on the east and west sides of the City landfill are now using recycled water. MUED has secured a \$100,000 award from the SBV Water Conservation Program to extend

DRAFT
(for MUPWC review on 10/2)

MINUTES

the recycled water distribution system piping south on California Street to convert the California Grove and West Redlands Gateway Grove from potable water irrigation to recycled water irrigation.

WWTP P2 Project Update: SCE recently approved the project electrical supply design and Parsons is finalizing the design.

Water Meter Replacement Project: MUED staff has submitted a BOR grant application aimed at securing partial funding for the three remaining project phases. It is anticipated that BOR will grant approval for this funding request, resulting in an allocation of around \$2.7M to bring the project to completion. MUED staff and Ferguson are working to consolidate the three (3) remaining project phases into a single phase.

PMP Update: Redland Boulevard from Citrus Street to Texas Street will be milled and overlaid next week.

A conversation followed about the type of repairs conducted in well rehabilitation, Edison's efficiency testing for wells, addressing perchlorate remediation, and current PFAS levels in the City's wells. Inquiries were raised regarding whether the Tate influent line design will be above or below ground.

b. San Bernardino Valley Water Conservation District Annual Update

Mr. Harris introduced Betsy Miller, General Manager of the San Bernardino Valley Water Conservation District (SBVWCD). Ms. Miller discussed updates related to the SBVWCD and its significance for the local water supply. The presentation emphasized the district's role in groundwater recharge, historical background, fiscal responsibility, and collaborations with various entities. Notable achievements and ongoing projects were highlighted, including the Plunge Creek Project which recharges groundwater and increases habitat for native species. The presenter underlined the collaborative approach with cities, water districts, and local tribes to balance diverse needs.

c. Schedule for the Commission's Annual Report to City Council

Mr. Harris stated that a schedule was developed for commission/board/committee annual report presentations to City Council. The MUPWC is scheduled to present the annual report on the first meeting of the March.

E. NEW BUSINESS

None.

F. COMMISSIONER ANNOUNCEMENTS, REPORTS ON ACTIVITIES, AND/OR REQUESTS FOR FUTURE AGENDA ITEMS

Items requested for the next regular Commission meeting agenda were as follows:

Meter Replacement Program – Performance metrics for the meter replacement program.

DRAFT
(for MUPWC review on 10/2)

MINUTES

Lead and Copper Rule – Impacts on the community and the actions taken by the City in response to the Lead and Copper Rule.

Wastewater Treatment Plant Update – Comprehensive update on the wastewater treatment plant upgrade and funding.

Groundwater Council – Provide an update on the City's position within the groundwater council prior to the expiration of the one-year extension.

Commissioner Garcia mentioned the presence of a pond with a waterfall located on the western offramp of Alabama Street. The waterfall is currently non-functional, and the pond is experiencing an issue with algae accumulation, which could potentially lead to an infestation of insects.

G. ADJOURNMENT – Next regular meeting is October 2, 2023 at 4:00 PM

There being no further business the meeting adjourned at 5:01 PM. The next regular meeting of the City of Redlands Municipal Utilities/Public Works Commission is scheduled for October 2, 2023.



City of
REDLANDS
Incorporated 1888
Municipal Utilities & Engineering Department

JOHN R. HARRIS
Director

MEMORANDUM

TO: Adekunle Ojo, Municipal Utilities/Public Works Commission Chair

FROM: John R. Harris, Municipal Utilities & Engineering Department Director

DATE: September 25, 2023

SUBJECT: October 2, 2023 Director's Report

Hello and thank you for serving the Redlands community as a Municipal Utilities/Public Works Commissioner (MUPWC)! City of Redlands Municipal Code Chapter 2.38 establishes the responsibilities of the MUPWC as follows:

"The commission is a resource for the City Council and City staff and buffer with the general public. In its advisory capacity, the commission shall be knowledgeable of all public works, utilities and engineering programs. The commission shall, through the individual and collective expertise of its members, provide advice to the Public Works and Municipal Utilities Departments regarding the public acceptability of proposed plans, programs and projects."

Upcoming City Council Meeting Agenda Items

- Tate WTP Influent Line Carollo Agreement Extension (October 3)
- Oakmont Park Channel Improvements Huitt-Zollars Agreement Extension (October 3)
- Alabama Septage Disposal Ponds Agreement Amendment (October 17)
- Waterline Replacement Project Tryco Agreement Extension (October 17)
- Street Rehabilitation Project Matich Agreement Extension (October 17)
- Sunset Reservoir Environmental Study Chambers Agreement Extension (October 17)
- SCADA Upgrade Project Tesco Agreement Extension (November 7)
- WWTP Waste Hauler Agreement Amendment (November 7)
- 2023 Waterline Replacement Engineering Agreement (November 7)

City Grove Irrigation Update

Engineering plans to extend a recycled water distribution pipeline south of I-10 on California Street are being developed in-house and are nearly complete. Once finalized, the plans will have to be reviewed and approved by CalTrans to receive permits for construction. The goal of this

project is to transition the City's California Grove and West Gateway Grove from potable water irrigation to recycled water irrigation. This will be the first expansion of the recycled water distribution system south of I-10.

WWTP P2 Project Update

Parsons Engineering continues to develop and refine the WWTP Improvement Project Phase 2 design, and has made significant progress toward completion of the following design elements:

Task 1 – Conduct Facility Condition Assessment	P1 = 100%/P2 = 99%
Task 2 – Develop Multipurpose Project Report/Implementation Plan	100% Complete
Task 3 – Provide Engineering Design Services	P1 = 100%/P2 = 95%
Task 4 – PM, Communication, QC	P1 = 100%/P2 = 95%

SCE recently approved the project electrical supply design and Parsons is finalizing the engineering plans. This is the final remaining Engineering Phase element and the Construction Phase will be ready to bid soon. MUED submitted a \$45M State Revolving Fund (SRF) loan application for construction of these improvements prior to the December 31, 2022 submittal deadline and learned that the application was not selected for full or partial funding. However, the application carried over into the current SRF cycle and MUED recently learned that this project was selected for full funding. MUED staff will meet with Water Board staff on September 27, 2023 for staff introductions, to discuss the project status, and to discuss loan terms. Parsons recently provided a Class 1 Construction Cost Estimate with the 90% design plans for all project elements totaling approximately \$110M, which includes indirect costs, direct costs, and allowances. MUED is evaluating opportunities to construct the project in phases.

Water Meter Replacement Project

MUED is implementing a multi-year year project to replace all potable and non-potable water meters within the Redlands service area. Ferguson Waterworks was selected to supply and install the water meters, meter box lids, and Automated Metering Infrastructure (AMI) water meter hardware for use in the future. Ferguson recently completed Phase 2 of the project, which focused on residential and small diameter commercial water meter replacements and AMI hardware retrofits. The water savings value associated with the completion of Phase 2 will be evaluated during the next year.

Phase 1 of this project was completed more than a year ago and replaced and/or upgraded approximately 3,600 existing water meters, with an emphasis on replacing all non-potable water meters and large diameter water meters. The metered water use within this area for the three (3) years prior to this project was:

2018	5,639 AFY
2019	4,959 AFY
2020	<u>5,459 AFY</u>
Average	5,353 AFY

The metered water use within this area for the year after completion of the Phase 1 project was 5,878 AFY, an increase of approximately ten percent (10%) from the prior three (3) year average. The associated revenue increase for these accounts is approximately \$300K for the same period. It is assumed that water use practices does not change significantly and the additional metered water use is due to the installation of more accurate water meters.

In July 2022, MUED staff submitted a BOR grant application to partially fund the three (3) remaining project phases. BOR recently approved this funding request and will provide approximately \$2.7M to complete the project. On September 5, 2023, the City Council awarded a new contract to Ferguson for the third and final phase of this project, which consolidates phases 3 – 5 into a single phase. The cost to complete this final project phase is approximately \$6.7M, of which approximately \$2.7M will be reimbursed by BOR. A project location map is provided as Attachment “B”.

PMP Update

Match Corporation was awarded a \$4.9M Construction Contract for the FY 22/23 project and mobilized on May 15, 2023. The project is currently on-budget and on-schedule, with an anticipated completion in late-October. A project location map is provided as Attachment “C”. MUED staff is currently developing the FY 23/24 PMP plans and specifications.

Annual Citywide Sidewalk/ADA Ramp Replacement Project Update

Tryco General Engineering was awarded a \$1M Construction Contract for the FY 22/23 project and mobilized in January. The project was completed in August 2023. A project location map is provided as Attachment “D”.

Redlands Country Club Drainage Study

Watearth, Inc. recently completed a drainage study on and around the Redlands Country Club (RCC). The objective of the project was to quantify pre-development and post-development contributing and on-site runoff at various historic milestone dates. The 2020 peak flows were compared to the baseline year of 1960 to determine the increase in peak flows at these milestone dates. The project also identified several conceptual mitigating measures to reduce runoff at

various locations. MUED staff and Watearth collaboratively identified the following conceptual mitigation measures to reduce peak flows, erosion, and sediment migration:

- Repurpose the irrigation pond near outfall 1;
- Stream stabilization improvements near outfall 1;
- Alternative stream improvements near outfall 1;
- Pave the dirt walking path (Garden Mariposa Trail) near outfall 1;
- Sediment trap repair and additional sediment basins located at outfall 1;
- Additional sediment basins near outfalls 3 and 4;
- Remove the curb along Sierra Vista Drive/Elder Road near outfalls 3 and 4;
- Install a tree box near outfall 2A;
- Enforce existing erosion control guidelines throughout the project area.

MUED staff will meet with RCC staff to determine next steps. The full report is too large to email/print, but can be accessed through the following link:

<https://www.dropbox.com/scl/fo/47zx7p5qdy8z5s9bl6yh9/h?rlkey=sq9bnvt4qkh45am86qqo8vibq&dl=0>

Alabama/I-10 Pond

The MUPWC noted that this water feature near the I-10/I-210 interchange has fallen into disrepair and is accumulating a significant amount of trash and debris. MUED staff contacted CalTrans, who owns and maintains this water feature, to encourage more frequent cleanup and maintenance activities at this site.

Lead & Copper Rule

On January 15, 2021, US EPA issued Lead and Copper Rule Revisions (LCRR). Major revisions include Lead Service Line Inventories (LSL) and lead sampling of schools and childcare facilities.

MUED is compiling and organizing data to field verify service line materials for reporting before the October 16, 2024 deadline. The LCRR also mandates that water systems sample twenty percent (20%) of schools and childcare facilities for lead each year for five (5) consecutive years. These new sampling procedures will begin in 2024 and MUED has identified all schools and childcare facilities within the Redlands service area.

PFAS Update

Recent PFAS monitoring results identified three (3) City wells (Well #38, Well #39, and Blend Well 38/39) with PFAS levels that are near or above the MCL proposed by US EPA. The PFAS results and comparisons to the US EPA proposed MCL are provided in Attachment "E". It is likely that the source of PFAS is from agricultural activities near these well sites. MUED conferred with

Dudek, who is currently engineering a perchlorate mitigation strategy for these wells, to discuss the new PFAS detection. Dudek confirmed that their proposed perchlorate mitigation strategy will also reduce the PFAS concentration to acceptable levels and recommended no revisions to the project. PFAS concentrations at or near the US EPA MCL have not been detected in any other City wells based on the Unregulated Contaminant Monitoring Rule 5 (UCMR5) results. MUED will continue to monitor PFAS within our water system in anticipation of the final US EPA rule.

Groundwater Council

Redlands is a member of the San Bernardino Basin Groundwater Council (GC) along with Bear Valley Mutual Water Company, East Valley Water District, Fontana Water Company, Loma Linda University, City of San Bernardino Municipal Water District, San Bernardino Valley Municipal Water District, San Bernardino Valley Water Conservation District, West Valley Water District, Yucaipa Valley Water District, and the cities of Colton, Loma Linda, and Rialto. The GC was formed in 2015 in response to the California Legislature's 2014 enactment of the Sustainable Groundwater Management Act (SGMA), which established a statewide framework for the sustainable management of groundwater resources with a focus on granting new authorities and responsibilities to local agencies. Essentially, SGMA was enacted during a significant drought period in 2014 to ensure water supply reliability and long-term groundwater sustainability considering more frequent dry years and the reduced availability of State Project Water from Northern California. The goals of the GC are to prepare for and coordinate the management of groundwater supply resources throughout the Basin, and to coordinate maintenance of conveyance and recharge facilities to expedite such management.

The GC developed an Equitable Allocation Model (EAM) to proportionally quantify the financial participation for each GC agency. The EAM "debits" the groundwater extractions and "credits" imported water for each agency. The difference becomes the Water Supply Charge for each agency. For instance, an agency with 24,000 AF of groundwater extractions that imports 20,000 AF of water to the basin (either provided by non-diverted surface water rights or purchased from the SWP) is assessed a Water Supply Charge equal to 4,000 AF, which is currently \$118.40/AF. The GC also assesses an Operations and Maintenance charge based on the proportion of total pumping for each agency. Typical annual GC assessments for Redlands are approximately \$250K.

Q3 Capital Improvement Project Update

The MUPWC is charged with, among other things, "*annually reviewing the City CIP under the purview of the Public Works and Municipal Utilities Departments*" (Municipal Code 2.38.030). However, during the December 7, 2020 MUPWC meeting, the Commission asked the MUED staff to provide quarterly CIP updates. A summary and status of CIP projects is provided in Attachment "F". Highlights of current projects are provided below:

1. Multi-Year Well Rehabilitation & Booster Pump Replacements – Four (4) potable water wells and three (3) non-potable water wells are being rehabilitated in FY 22/23. This work is prioritized to occur during our typical low water demand season. Five (5) of these seven

(7) wells have been rehabilitated and are back in service, two (2) wells are currently being rehabilitated and will be returned to service before the end of the year. Following is a short list of specific groundwater wells scheduled for rehabilitation with this project:

- a. Task 2.1 - Madeira Well (potable)
 - b. Task 2.2 - Mentone #2 Well (potable)
 - c. Task 2.3 - Well #38 (potable)
 - d. Task 2.4 - Well #39 (potable)
 - e. Task 2.5 - New York Street Well (non-potable)
 - f. Task 2.6 - Well #11 (non-potable)
 - g. Task 2.7 - Well #36 (non-potable)
2. Recycled Water Reservoir Engineering – This project is underway and Carollo Engineers recently submitted a 90% Plans, Specifications, and Construction Cost Estimate for construction of a single 2.5 MG concrete reservoir and several distribution system improvements. MUED staff reviewed these plans and submitted minor comments back to Carollo.
 3. Tate WTP Raw Water Influent Pipeline Engineering – This project is underway and Carollo Engineers recently submitted the 60% design plans for review. MUED staff reviewed these plans and submitted comments back to Carollo.
 4. Hinckley WTP Sludge Press Engineering – This project is underway and Dudek recently submitted the 60% design plans for review. MUED staff reviewed these plans and submitted comments back to Dudek.
 5. Well Perchlorate Treatment Evaluation – This project is underway and Dudek is developing 30% design plans and recently submitted a Preliminary Design Report for review. A recent detection of PFAS will not require design revisions.
 6. University Street/Brockton Avenue Traffic Signal – This project is complete and the signal will be activated the week of October 11, 2023.
 7. FY 22/23 Waterline Replacement Project – A Construction Contract was recently awarded to Tryco General Engineering and construction began in early-May. A Project Location Map is provided as Attachment “G”.
 8. Phase II & III Water Distribution SCADA Upgrade - Materials have been ordered. Installations began recently and will continue into 2024.
 9. Alley Paving Project – The FY 22/23 project was awarded to Onyx Paving and construction began in early-June. A project location map is provided as Attachment “H”.
 10. Sewerline Replacement Project – The FY 22/23 project was awarded to CEM and construction began in July. A project location map is provided as Attachment “I”.
 11. The 2022 HSIP Cycle 8 Ped Heads and 2022 HSIP Cycle 8 EVP projects are nearly complete.

As always, feel free to contact me anytime to discuss MUED issues, programs, projects, or concerns.

John R. Harris



jharris@cityofredlands.org

(909) 725-1963

Attachments:

- A – Acronym List
- B – Citywide Water Meter Replacement Project Phase 3 Location Map
- C - FY 22/23 PMP Location Map
- D – FY 22/23 Sidewalk & ADA Ramp Replacement Project Location Map
- E – PFAS Monitoring Results
- F - CIP Status List
- G – FY 22/23 Waterline Replacement Project Location Map
- H – FY 22/23 Alley Paving Project Location Map
- I – FY 22/23 Sewerline Replacement Project Location Map

ACRONYMS

AACE	Association for the Advancement of Cost Engineering
AF	Acre-Feet
AFD	Acre-Feet per Day
AFY	Acre-Feet per Year
ADD	Average Day Demand
AMI	Advanced Metering Infrastructure
AMR	Automated Meter Reader
APWA	American Public Works Association
ASCE	American Society of Civil Engineers
ASL	Above Sea Level
AWWA	American Water Works Association
BOD	Biological Oxygen Demand
BOR	Bureau of Reclamation
BVMWC	Bear Valley Mutual Water Company
CalOSHA	California Division of Occupational Safety and Health Agency
CalWARN	California's Water/Wastewater Agency Response Network
CCR	Consumer Confidence Report
CIP	Capital Improvement Program
CWC	Crafton Water Company
DDW	Division of Drinking Water
DIF	Development Impact Fees
DU	Dwelling Unit
EDU	Equivalent Dwelling Unit
EOPC	Engineer's Opinion of Probable Cost
EPA	Environmental Protection Agency
EPS	Extended Period Simulation
ERNIE	Emergency Response Network of the Inland Empire
ES	Equalizing Storage
EVWD	East Valley Water District
FCS	Facilities and Community Services Department
FPS	Feet Per Second
FSS	Fire Suppression Storage
FY	Fiscal Year
GC	Groundwater Council
GIS	Geographical Information System

GPCD	Gallons per capita day
GPD	Gallons per day
GPM	Gallons per minute
Hinckley WTP	Horace P. Hinckley Water Treatment Plant
HP	Horsepower
HSIP	Highway Improvement Safety Program
I-10	Interstate 10
I-210	Interstate 210
MCL	Maximum Contaminant Level
MDD	Maximum Day Demand
MG	Million Gallons
MGD	Million Gallons per Day
mg/L	Milligrams per Liter
MUED	Municipal Utilities and Engineering Department
NPW	Non-Potable Water
NTU	Nephelometric Turbidity Unit
O&M	Operations and Maintenance
OS	Operational Storage
PFAS	Per- & Polyfluoroalkyl Substances
PHD	Peak Hour Demand
PMP	Pavement Management Program
PPM	Parts Per Million
PRS	Pressure Reducing Stations
PSI	Pounds per Square Inch
PW	Potable Water
RW	Recycled Water
SAR	Santa Ana River
SB	Stand-by Storage
SBBA	San Bernardino Basin Area
SBV	San Bernardino Valley (formerly San Bernardino Valley Municipal Water District)
SCADA	Supervisory Control and Data Acquisition
SCE	Southern California Edison
SGMA	Sustainable Groundwater Management Act
SOC	Synthetic Organic Compounds
SOP	Standard Operating Procedure

SWP	State Water Project
SWRCB-DDW	State Water Resources Control Board – Division of Drinking Water
Tate WTP	Henry Tate Water Treatment Plant
TBD	To be determined
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
TTHM	Trihalomethanes
U.S.	United States
UWMP	Urban Water Management Plan
VOC	Volatile Organic Compounds
WD	Water Distribution
WP	Water Production
WSCP	Water Shortage Contingency Plan
WSMP	Water System Master Plan
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

FY23/24 Meter Routes

Potable Water Meter
Change-Out CIP

- Route 24 - 282
- Route 25 - 492
- Route 26 - 329
- Route 27 - 344
- Route 28 - 301
- Route 31 - 271
- Route 32 - 268
- Route 33 - 314
- Route 34 - 324
- Route 45 - 159
- Route 47 - 254
- Route 48 - 221
- Route 51 - 341
- Route 52 - 355
- Route 53 - 310
- Route 54 - 335
- City of Redlands

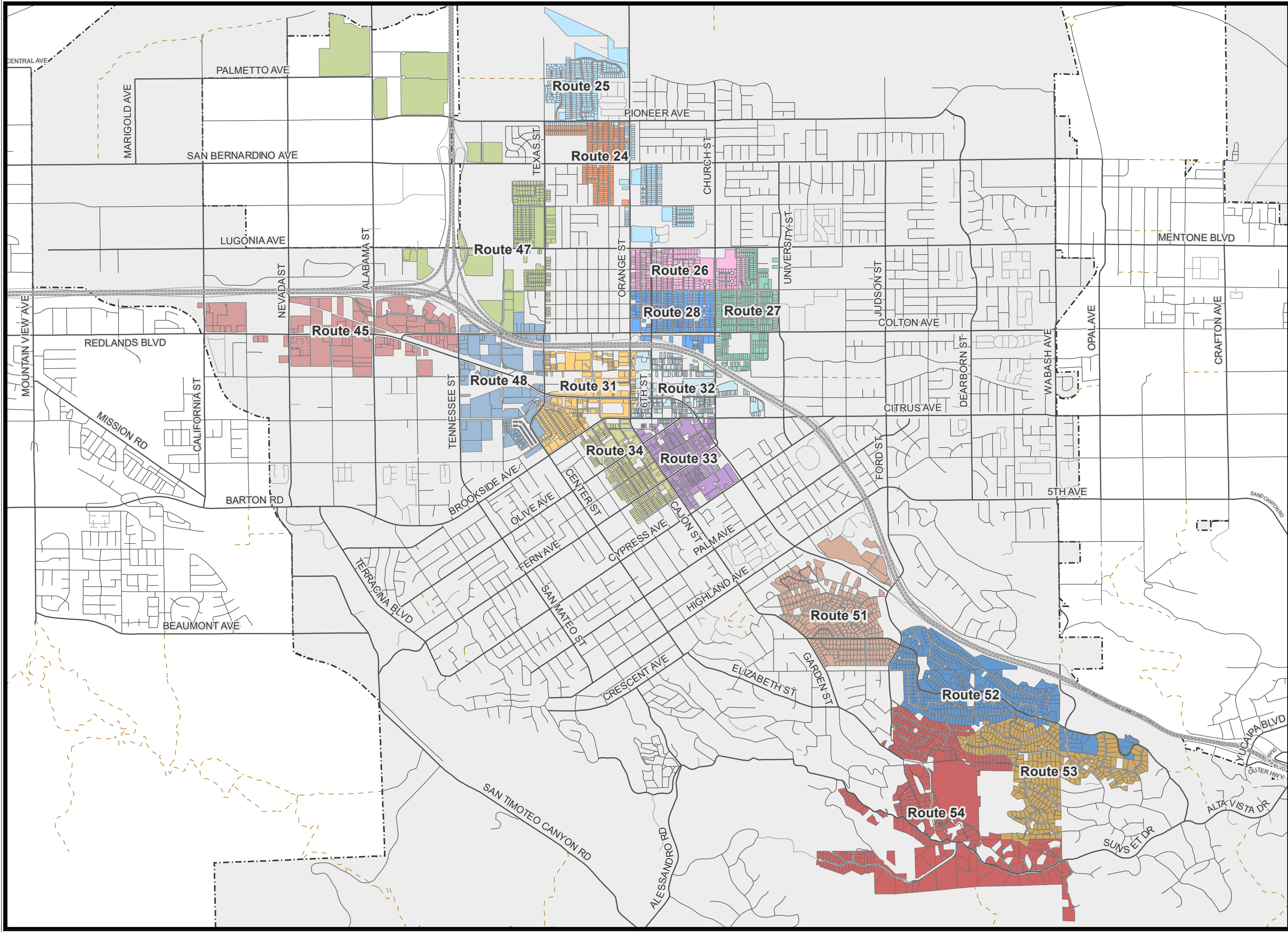
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June 14, 2022

FY23_24Potable.mxd



FY24/25 Meter Routes

Potable Water Meter
Change-Out CIP

- Route 35 - 325
- Route 36 - 278
- Route 37 - 357
- Route 38 - 261
- Route 41 - 339
- Route 42 - 255
- Route 43 - 275
- Route 55 - 341
- Route 56 - 350
- Route 57 - 351
- Route 58 - 249
- Route 61 - 343
- Route 62 - 359
- Route 63 - 455
- Route 64 - 442
- City of Redlands

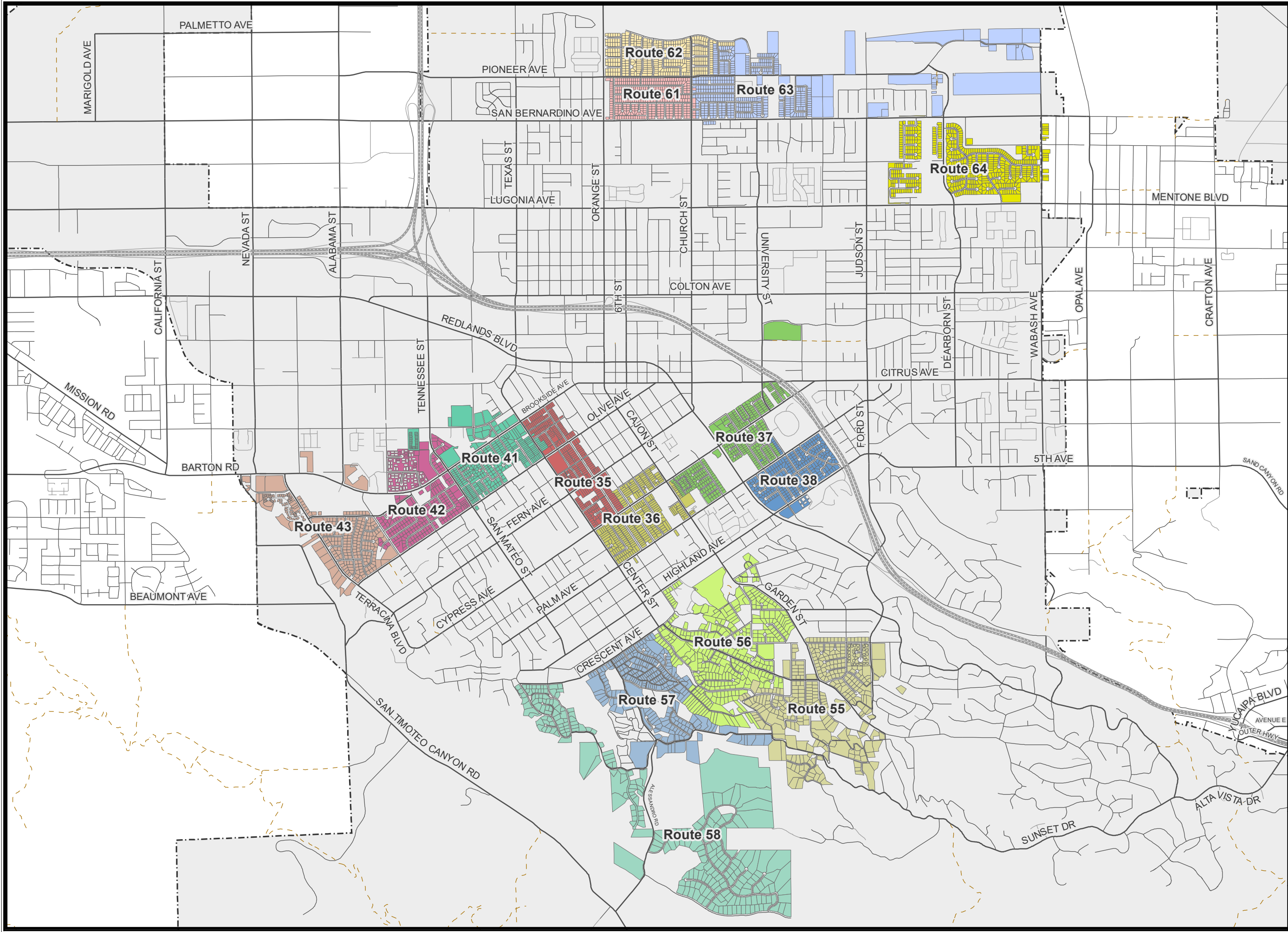
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June 14, 2022

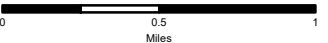
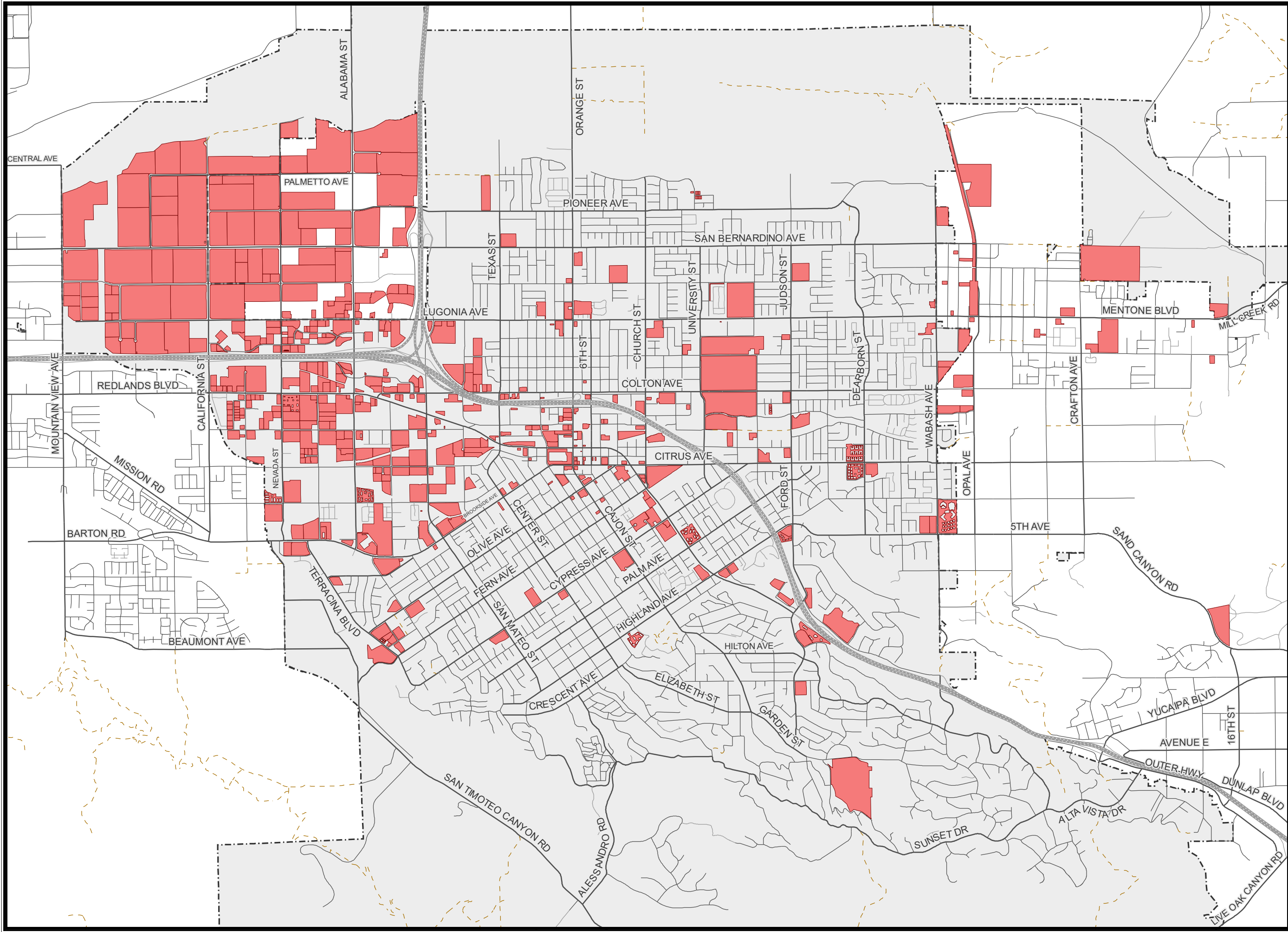
FY24_25Potable.mxd



FY25/26 Fire Protection

Potable Water Meter
Change-Out CIP

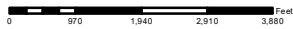
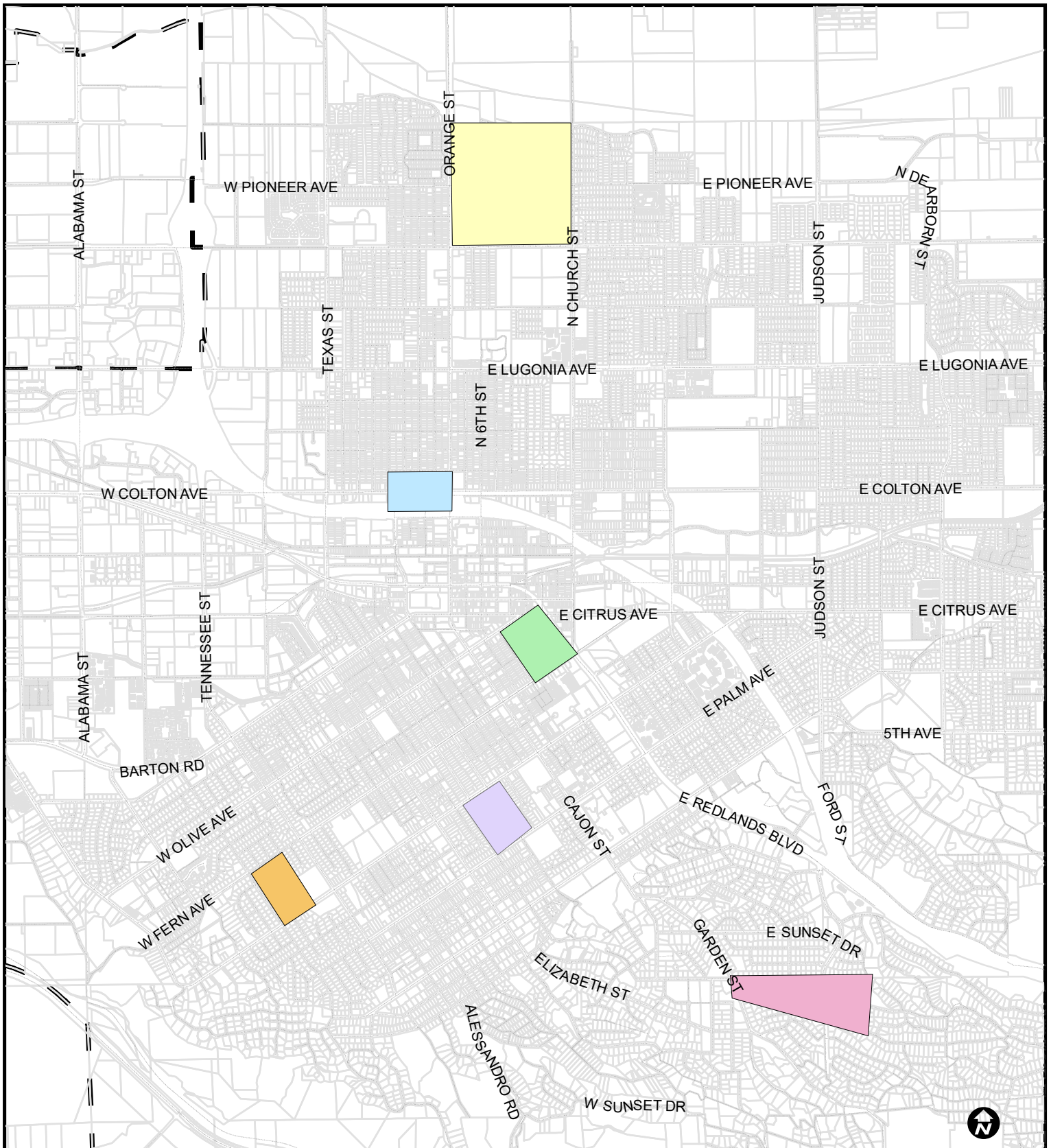
-  Fire Protection
-  City of Redlands



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May 24, 2021

FY25_26Potable_FirePro.mxd



2022 Citywide Sidewalk and ADA Ramp Replacement Project Location Map

Legend:

- Area A
- Area B
- Area C
- Area D
- Area E
- Area F

Well #38 PFAS Monitoring

Well #38	8/8/2023	EPA Proposed MCL (March 14, 2023) (ng/L)	SWRCB proposed Notification Level (ng/L)	SWRCB proposed Response Level (ng/L)	SWRCB Proposed Date
PFOA (ng/L)	3.7	4	5.1	10	February 6, 2020
PFOS (ng/L)	5	4	6.5	40	February 6, 2020
PFHxS (ng/L)	2.2	1.0 (Unitless) Hazardous Index	3	20	October 31, 2022
PFBS (ng/L)	2.1		500	5000	March 5, 2021
HFPO-DA (GenX) (ng/L)	0		N/A	N/A	N/A
PFNA (ng/L)	0		N/A	N/A	N/A
Hazardous Index Calculation Value	0.25		N/A	N/A	N/A

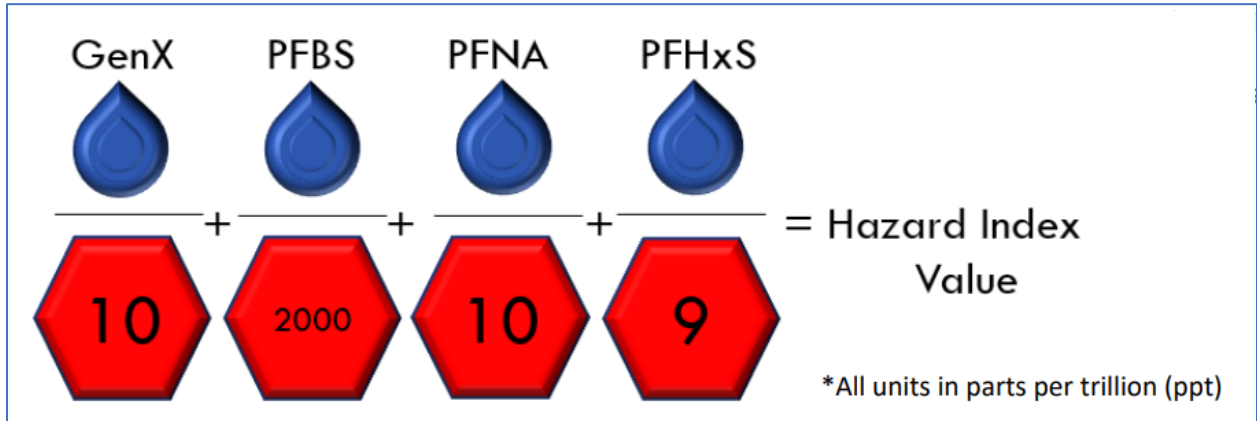
Well #39 PFAS Monitoring

Well #39	8/8/2023	EPA Proposed MCL (March 14, 2023) (ng/L)	SWRCB proposed Notification Level (ng/L)	SWRCB proposed Response Level (ng/L)	SWRCB Proposed Date
PFOA (ng/L)	5.6	4	5.1	10	February 6, 2020
PFOS (ng/L)	7	4	6.5	40	February 6, 2020
PFHxS (ng/L)	2.6	1.0 (Unitless) Hazardous Index	3	20	October 31, 2022
PFBS (ng/L)	4.1		500	5000	March 5, 2021
HFPO-DA (GenX) (ng/L)	0		N/A	N/A	N/A
PFNA (ng/L)	0		N/A	N/A	N/A
Hazardous Index Calculation Value	0.29		N/A	N/A	N/A

38/39 Blend PFAS Monitoring

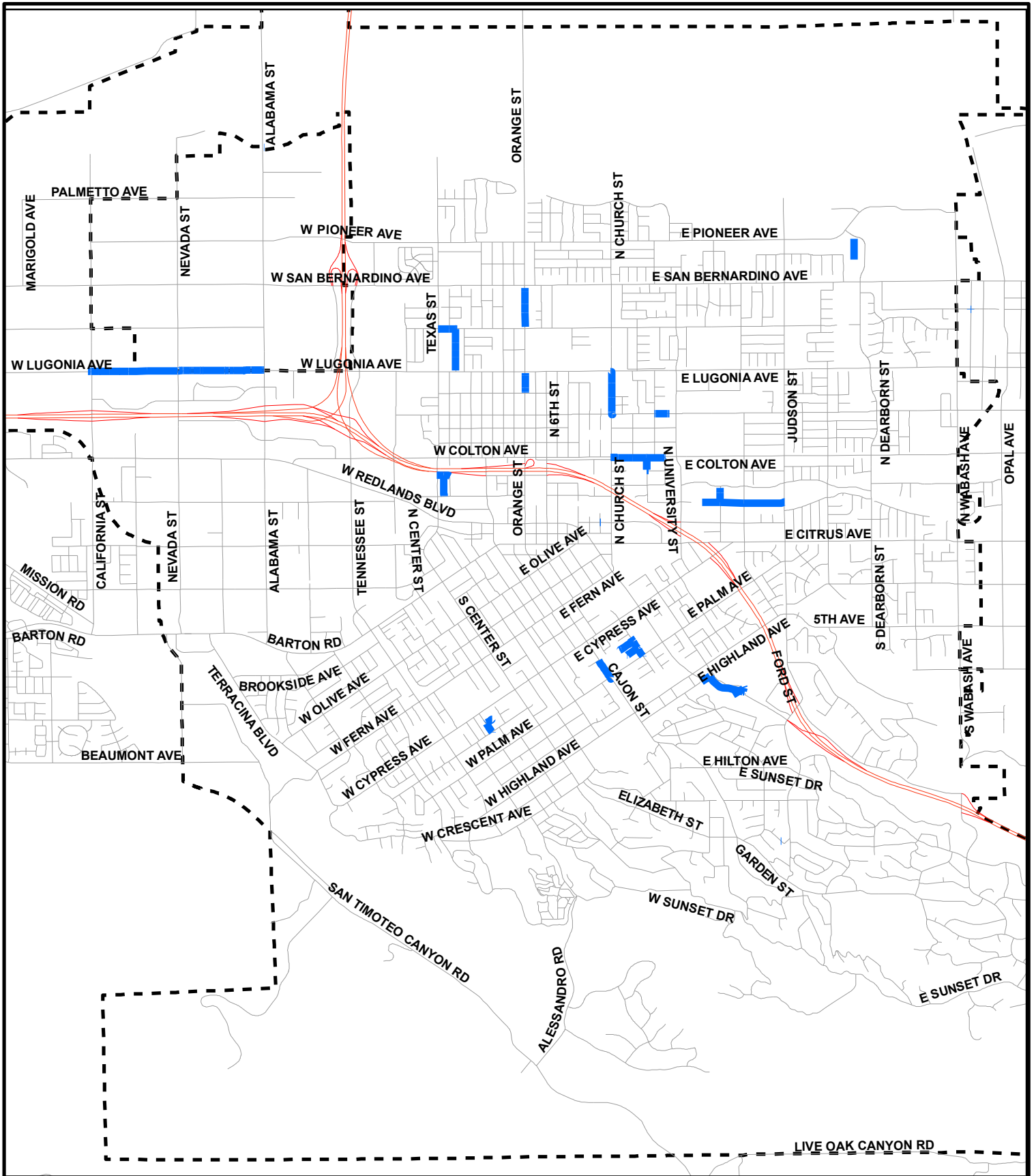
38/39 Blend	8/8/2023	EPA Proposed MCL (March 14, 2023) (ng/L)	SWRCB proposed Notification Level (ng/L)	SWRCB proposed Response Level (ng/L)	SWRCB Proposed Date
PFOA (ng/L)	4.1	4	5.1	10	February 6, 2020
PFOS (ng/L)	5.3	4	6.5	40	February 6, 2020
PFHxS (ng/L)	2	1.0 (Unitless) Hazardous Index	3	20	October 31, 2022
PFBS (ng/L)	2.6		500	5000	March 5, 2021
HFPO-DA (GenX) (ng/L)	0		N/A	N/A	N/A
PFNA (ng/L)	0		N/A	N/A	N/A
Hazardous Index Calculation Value	0.22		N/A	N/A	N/A

Calculation of Hazardous Index



**MUNICIPAL UTILITIES AND ENGINEERING DEPARTMENT
CIP PROJECTS LIST**

PLANNING		Org Key	PL	Project Name	Project Phase	Progress	Consultant/Contractor	PM/Engineer	FY 2022-23	FY 2023-24
P1	WATER	501910	501019	HAWC Booster Pump Rehabilitation	PLANNING	0%				\$500,000.00
P2	WATER	501910	501059	Seismic Assessment Improvements - Texas Grove Reservoir	PLANNING	0%				\$2,900,000.00
P3	WATER	501910	501055	Sunset Reservoir Replacement	PLANNING	0%				\$6,000,000.00
P4	WATER	501910	501058	Tate Clarifier Coating & Covers	PLANNING	0%				\$2,560,000.00
P5	ARTERIAL	252400		California Street Widening at Lugonia Ave	PLANNING	0%				\$800,000.00
P6	WATER	501910	501057	WTP Mechanical & Electrical Equipment Replacement	PLANNING	0%				\$180,000.00
P7	WATER	501910	501007	Agate #2 Well Rehabilitation	PLANNING	20%		Paul	\$175,000.00	
P8	WATER	501910	501042	Tank Mixers	PLANNING	15%		Paul	\$150,000.00	\$150,000.00
Planning Projects - Cost Summary									\$325,000.00	\$13,090,000.00
DESIGN		Org Key	PL	Project Name	Project Phase	Progress	Consultant/Contractor	PM/Engineer	Current Budget	
D1	WATER	501910	501063	2023 CIP Water Pipeline & Highline Replacement	DESIGN	5%		Gerard/		\$4,400,000.00
D2	GENERAL	101400	400025	2023 Citywide Sidewalk & ADA Ramp Replacement	DESIGN	20%		Elva		\$1,000,000.00
D3	PMP	211910	211008	PMP 2023 Street Resurfacing Project	DESIGN	25%		Gerard		\$4,000,000.00
D4	GENERAL/PMP	101/211	211009	2023 Alley Paving Improvements	DESIGN	35%		Elva		\$2,100,000.00
D5	WASTEWATER	521910	521030	2023 CIP Sewer Pipeline Replacement	DESIGN	20%		Johana		\$3,000,000.00
D6	WATER	501910	501028	Fixed Generators - Agate, 5th, Texas & Country Club	DESIGN	30%	Brady & Associates	Paul/Veronica	\$507,549.00	
D7	HSIP C10	200400	S400021	Wabash & Highland Ave Enhanced Crosswalk	DESIGN	20%		Veronica	\$250,000.00	
D8	GENERAL FUND	101400	01544	Live Oak Canyon Creek & Oakmont Park Restoration	DESIGN	65%	Huitt-Zollars, Inc.	John	\$1,800,000.00	
D9	WATER	501910	501040	Tate Transmission Line Replacement	DESIGN	50%	Carollo Engineers, Inc.	Paul/John	\$835,549.00	\$1,900,000.00
D10	NON-POTABLE	531910		WWTP Recycled Water Reservoirs Design	DESIGN	50%	Carollo Engineers, Inc.	John	\$734,839.00	
D11	WATER	501910		Hinckley WTP Sludge Press	DESIGN	35%	Dudek	Paul/John	\$700,000.00	
D12	ARTERIAL	252400		California Street Widening at Redlands Blvd	DESIGN	60%	CASC Engineering and Consulting	Gerard	\$231,930.00	
D13	WATER	501910	501050	Sunset Temporary Reservoir Replacement	DESIGN	100%		Veronica	\$2,500,000.00	
D14	TDA	241400	S241005	2021 Transit Stop Improvement	DESIGN	90%		Veronica/Johana	\$46,340.00	
D15	ATP C2	240400	C400005	Highland/Redlands Regional Connector - South	DESIGN	95%	KOA Consultants	Veronica	\$752,600.00	
D16	ARTERIAL	252400	252001	Citrus Avenue Widening Project	DESIGN	95%		Elva	\$900,000.00	
D17	ATP C3	200400	C400007	East Valley Corridor Bike Rte Interconnect - Alabama	DESIGN	95%	KOA Consultants	Veronica	\$2,112,000.00	
Design Projects - Cost Summary									\$11,370,807.00	\$16,400,000.00
BID & AWARD		Org Key	PL	Project Name	Project Phase	Progress	Consultant/Contractor	PM/Engineer	Current Budget	
B1	TRAFFIC SIGNAL	243400		Traffic Signal Improvements at Cypress and Cajon	BID & AWARD	1%	KOA Consultants	Elva	\$600,000.00	
Bid & Award Project - Cost Summary									\$600,000.00	\$0.00
CONSTRUCTION		Org Key	PL	Project Name	Project Phase	Progress	Contractor	PM/Inspector	Contract Amount	
C1	WATER	501910	C501064	Water Meter Replacement (Potable/Non-potable) Project	CONST	1%	Ferguson Enterprises, LLC	John/Aaron/Chris		\$6,747,257.96
C2	STORM DRAIN	405400	405003	Mission Zanja Channel Improvements Project	CONST	1%	Harbor Coating & Restoration	Gerard/Chris		\$381,799.00
C3	HSIP C9	200400	F400003	Pedestrian In-Roadway Lights - Alabama/Tennessee	CONST	1%	California Professional Engineering	Veronica/Chris		\$259,245.00
C4	WASTEWATER	521910	521029	2022 CIP Sewer Pipeline Replacement	CONST	25%	CEM Construction Corp	Johana/Daniel	\$3,314,268.00	
C5	GENERAL/PMP/MT	101/211	211007	2022 Alley Paving Improvements	CONST	35%	Onyx Paving Company, Inc.	Elva/James	\$2,082,000.00	
C6	PMP	211910	211006	PMP 2022 Street Resurfacing Project	CONST	45%	Match Corporation	Gerard/Frannie	\$4,970,068.00	
C7	WATER	501910	501062	2022 CIP Water Pipeline Replacement	CONST	25%	Tryco General Engineering	Gerard/Daniel	\$4,744,111.00	
C8	GENERAL/MT	101400	400022	2022 Citywide Sidewalk & ADA Ramp Replacement	CONST	100%	Tryco General Engineering	Elva/Daniel	\$1,000,000.00	
C9	TRAFFIC SIGNAL	253400	253007	Traffic Signal Improvements (Brockton/University)	CONST	99%	Elecnor Belco Electric, Inc.	Elva/Daniel	\$507,745.00	
C10	WATER	501910	501006	Water System SCADA Design & Integration - Phase 2 & 3	CONST	45%	TESCO Controls, Inc.	Paul/Daniel	\$5,579,420.00	
Construction Projects - Cost Summary									\$22,197,612.00	\$7,388,301.96
Project Total Dollars									\$34,493,419.00	\$36,878,301.96

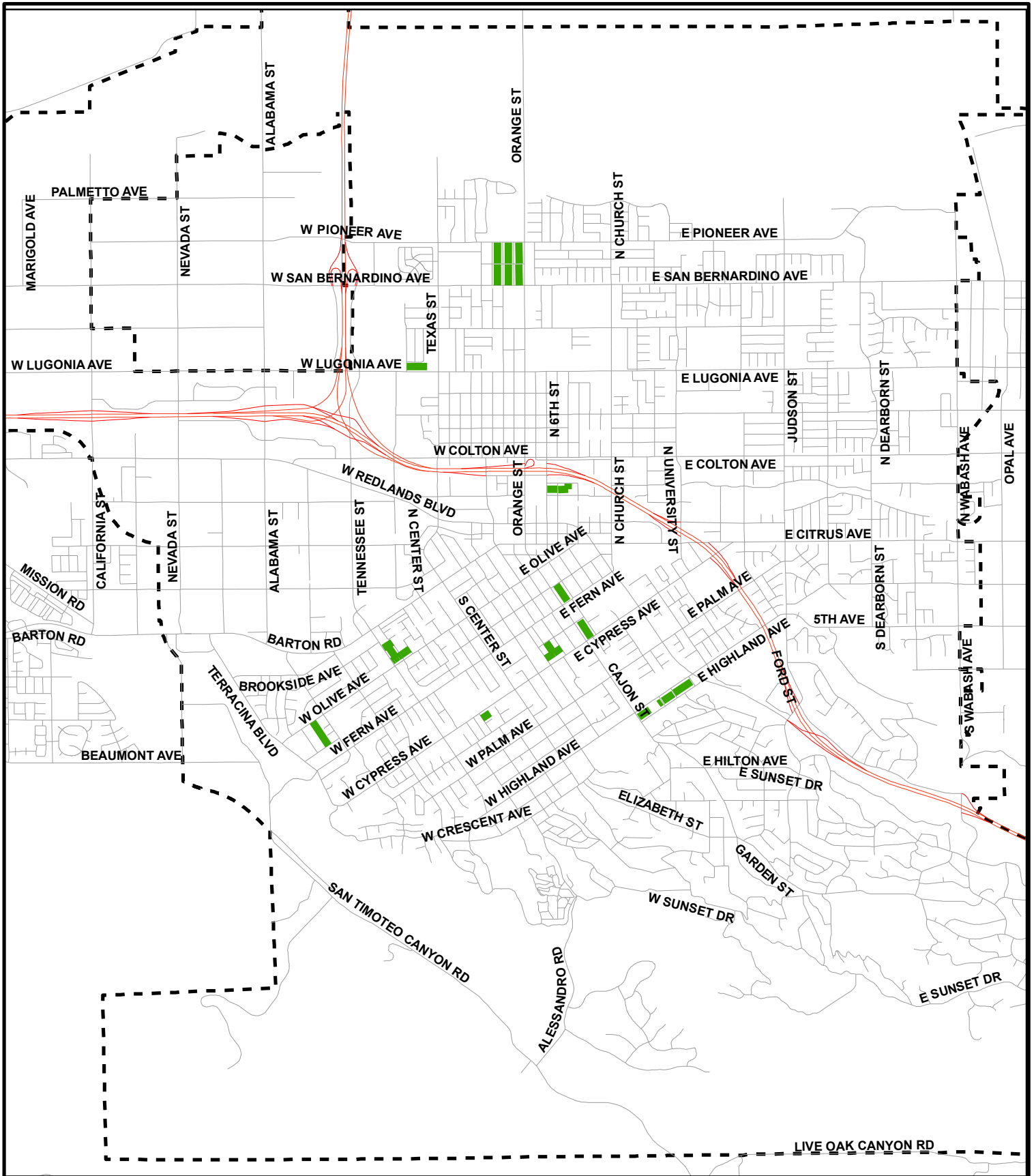


— PROPOSED WATER PIPELINE REPLACEMENT

2022 CIP WATER PIPELINE REPLACEMENT PROJECT LOCATION MAP



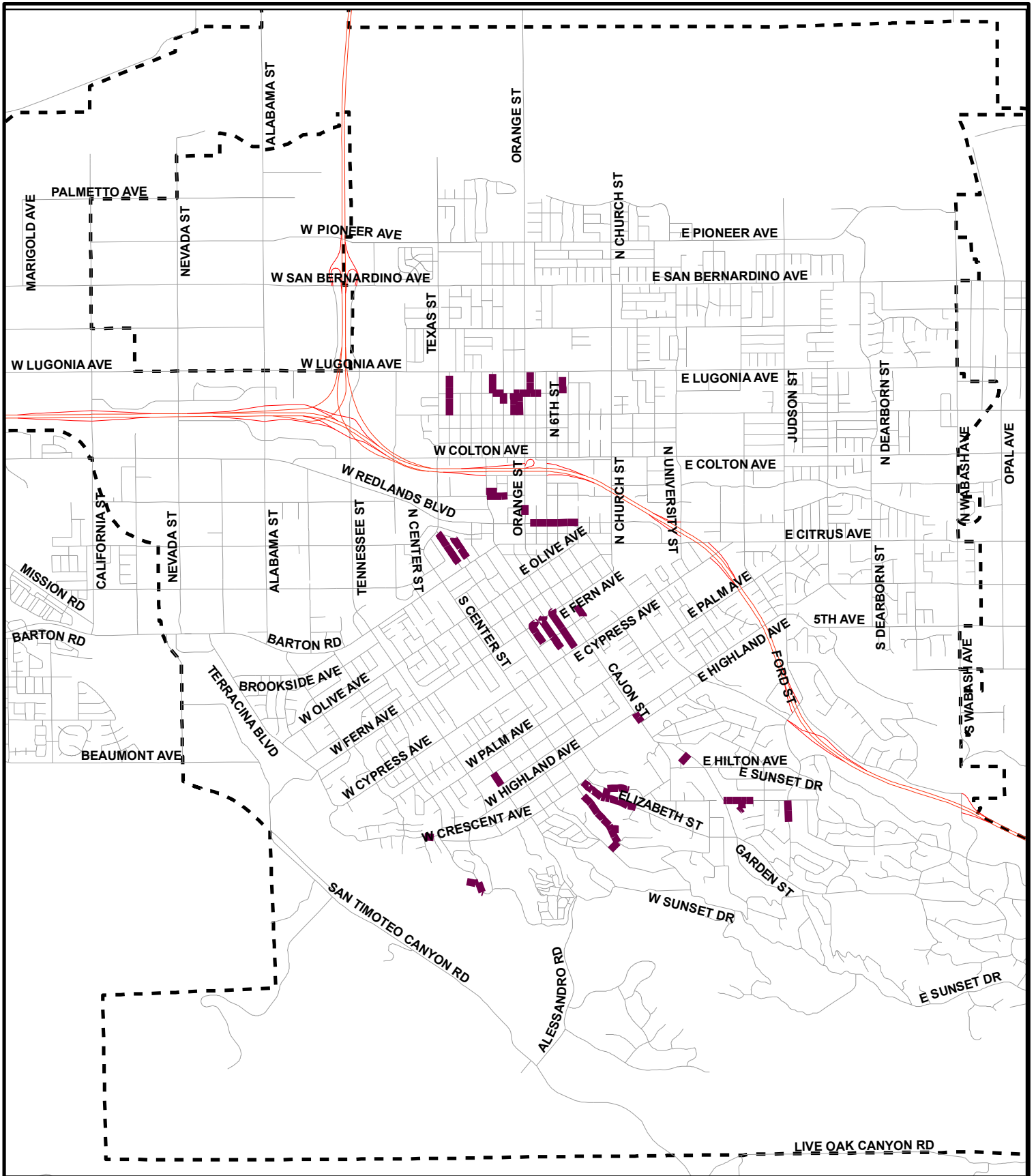
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 PROPOSED ALLEY PAVING

2022 ALLEY PAVING PROJECT LOCATION MAP





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PROPOSED SEWER PIPELINE REPLACEMENT

2022 CIP SEWER PIPELINE REPLACEMENT PROJECT

LOCATION MAP

