



Santa Clara Valley Water District Capital Improvement Program Committee Meeting

Headquarters Building Boardroom
5700 Almaden Expressway, San Jose, CA 95118

Join Zoom Meeting
<https://valleywater.zoom.us/j/94158013374>

SPECIAL MEETING AGENDA

**April 22, 2024
11:00 AM**

District Mission: Provide Silicon Valley safe, clean water for a healthy life, environment and economy.

BOARD COMMITTEE MEMBERS:

Committee Chair:
Director Nai Hsueh, District 5

Committee Vice Chair:
Director Tony Estremera, District 6

Committee Member:
Director Jim Beall, District 4

During the COVID-19 restrictions, all public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body, will be available to the public through the legislative body agenda web page at the same time that the public records are distributed or made available to the legislative body. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to participate in the legislative body's meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

COMMITTEE LIAISON:
Jessica Collins

COMMITTEE CLERK: Dave Leon
(COB Liaison)
Assistant Deputy Clerk II
408-630-2006
daveleon@valleywater.org
www.valleywater.org

Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.

**Santa Clara Valley Water District
Capital Improvement Program Committee**

**REGULAR MEETING
AGENDA**

Monday, April 22, 2024

11:00 AM

HQ Boardroom
5700 Almaden Expressway, San Jose, CA 95118

IMPORTANT NOTICES AND PARTICIPATION INSTRUCTIONS

Santa Clara Valley Water District (Valley Water) Board of Directors/Board Committee meetings are held as a “hybrid” meetings, conducted in-person as well as by telecommunication, and is compliant with the provisions of the Ralph M. Brown Act.

To maximize public safety while still maintaining transparency and public access, members of the public have an option to participate by teleconference/video conference or attend in-person. To observe and participate in the meeting by teleconference/video conference, please see the meeting link located at the top of the agenda. If attending in-person, you are required to comply with Ordinance 22-03 - AN ORDINANCE OF THE SANTA CLARA VALLEY WATER DISTRICT SPECIFYING RULES OF DECORUM FOR PARTICIPATION IN BOARD AND COMMITTEE MEETINGS located at <https://s3.us-west-2.amazonaws.com/valleywater.org.if-us-west-2/f2-live/s3fs-public/Ord.pdf>

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee during public comment or on any item listed on the agenda, may do so by filling out a Speaker Card and submitting it to the Clerk or using the “Raise Hand” tool located in the Zoom meeting application to identify yourself in order to speak, at the time the item is called. Speakers will be acknowledged by the Board/Committee Chair in the order requests are received and granted speaking access to address the Board.

- Members of the Public may test their connection to Zoom Meetings at: <https://zoom.us/test>
- Members of the Public are encouraged to review our overview on joining Valley Water Board Meetings at: <https://www.youtube.com/watch?v=TojJpYCxXm0>

Valley Water, in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access and/or participate in Valley Water Board of Directors/Board Committee meetings to please contact the Clerk of the Board’s office at (408) 630-2711, at least 3 business days before the scheduled meeting to ensure that Valley Water may assist you.

This agenda has been prepared as required by the applicable laws of the State of

California, including but not limited to, Government Code Sections 54950 et. seq. and has not been prepared with a view to informing an investment decision in any of Valley Water's bonds, notes or other obligations. Any projections, plans or other forward-looking statements included in the information in this agenda are subject to a variety of uncertainties that could cause any actual plans or results to differ materially from any such statement. The information herein is not intended to be used by investors or potential investors in considering the purchase or sale of Valley Water's bonds, notes or other obligations and investors and potential investors should rely only on information filed by Valley Water on the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System for municipal securities disclosures and Valley Water's Investor Relations website, maintained on the World Wide Web at <https://emmas.msrbo.org/> and <https://www.valleywater.org/how-we-operate/financebudget/investor-relations>, respectively.

Under the Brown Act, members of the public are not required to provide identifying information in order to attend public meetings. Through the link below, the Zoom webinar program requests entry of a name and email address, and Valley Water is unable to modify this requirement. Members of the public not wishing to provide such identifying information are encouraged to enter "Anonymous" or some other reference under name and to enter a fictional email address (e.g., attendee@valleywater.org) in lieu of their actual address. Inputting such values will not impact your ability to access the meeting through Zoom.

Join Zoom Meeting:

<https://valleywater.zoom.us/j/94158013374>

Meeting ID: 941 5801 3374

Join by Phone:

1 (669) 900-9128, 94158013374#

1. CALL TO ORDER:

1.1. Roll Call.

2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA.

Notice to the public: Members of the public who wish to address the Board/Committee on any item not listed on the agenda may do so by filling out a Speaker Card and submitting it to the Clerk or using the "Raise Hand" tool located in the Zoom meeting application to identify yourself to speak. Speakers will be acknowledged by the Board/Committee Chair in the order requests are received and granted speaking access to address the Board/Committee. Speakers' comments should be limited to three minutes or as set by the Chair. The law does not permit Board/Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Board/Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Board/Committee may take action on any item of business appearing on the posted agenda.

- 2.1. Election of 2024 Capital Improvement Program Committee Officers. [24-0368](#)

Recommendation: Nominate and elect the 2024 Capital Improvement Program Committee Chairperson and Vice Chairperson.

Manager: Candice Kwok-Smith, 408-630-3193

3. APPROVAL OF MINUTES:

- 3.1. Approval of March 18, 2024 Capital Improvement Program Committee Minutes. [24-0414](#)

Recommendation: Approve the minutes.

Manager: Candice Kwok-Smith, 408-630-3193

Attachments: [Attachment 1: 031824 CIP Committee Draft Minutes](#)

4. REGULAR AGENDA:

- 4.1. Receive and Discuss Information Regarding the Status of Capital Projects in the Feasibility and Planning Phase. [24-0292](#)

Recommendation: Receive and discuss information regarding the status of capital projects in the feasibility and planning phase.

Manager: Ryan McCarter, 408-630-2983
Kirsten Struve, 408-630-3138
Luz Penilla, 408-630-2228
Emmanuel Aryee, 408-630-3074
Bhavani Yerrapotu, 408-630-2735
Lisa Bankosh, 408-630-2618
Tony Ndah, 408-630-2208

Attachments: [Attachment 1: Feasibility and Planning Report](#)

Est. Staff Time: 10 Minutes

- 4.2. Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract. [24-0293](#)

Recommendation: A. Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract; and
B. Receive information on upcoming Change Orders for Coyote Creek Modifications - North and South Channel work changes, which will result in a Board-level approval.

Manager: Ryan McCarter, 408-630-2983

Attachments: [Attachment A: Government Code § 84308: Flatiron West, Inc.](#)
[Attachment 1: Construction Contract Change Orders Status](#)
[Attachment 2: Construction Contract Financial Status](#)
[Attachment 3: Powerpoint](#)

- 4.3. Receive an update and provide feedback on the Water Treatment Plant Master Plan Implementation Project No. 93044001. [24-0295](#)

Recommendation: Receive an update and provide feedback on the Water Treatment Plant Master Plan Implementation Project No. 93044001.

Manager: Luz Penilla, 408-630-2228

Attachments: [Attachment 1: PowerPoint](#)

- 4.4. Review 2024 Capital Improvement Program Committee Work Plan. [24-0294](#)

Recommendation: Review the 2024 Capital Improvement Program Committee Work Plan and make adjustments as necessary.

Manager: Candice Kwok-Smith, 408-630-3193

Attachments: [Attachment 1: 2024 CIP Committee Work Plan](#)

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.

This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

6. ADJOURN:

- 6.1. Adjourn to Regular Meeting at 11:00 a.m. on May 20, 2024.

THIS PAGE INTENTIONALLY LEFT BLANK



Santa Clara Valley Water District

File No.: 24-0368

Agenda Date: 4/22/2024
Item No.: 2.1.

COMMITTEE AGENDA MEMORANDUM Capital Improvement Program Committee

Government Code § 84308 Applies: Yes No
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Election of 2024 Capital Improvement Program Committee Officers.

RECOMMENDATION:

Nominate and elect the 2024 Capital Improvement Program Committee Chairperson and Vice Chairperson.

SUMMARY:

The Capital Improvement Program (CIP) Committee (Committee) was established to provide a venue for more detailed discussions regarding capital project validation, including recommendations on prioritizing, deleting, and/or adding projects to the CIP, as well as monitoring implementation progress of key projects in the CIP.

The Committee is comprised of the Committee Chairperson and Vice Chairperson, who serve as the Committee's primary and secondary facilitators, and Committee representatives. The Committee Chairperson and Vice Chairperson are elected by the Committee annually.

The following is a summary of CIP Committee elected officers since the Committee's 2012 enactment by the Board of Directors.

Year	Chairperson	Vice Chairperson
2012	B. Schmidt	T. Estremera
2013	T. Estremera	D. Kennedy
2014	T. Estremera	D. Kennedy
2015	N. Hsueh	T. Estremera
2016	N. Hsueh	T. Estremera
2017	N. Hsueh	T. Estremera
2018	N. Hsueh	L. LeZotte

2019	N. Hsueh	L. LeZotte
2020	N. Hsueh	L. LeZotte
2021	N. Hsueh	L. LeZotte
2022	N. Hsueh	T. Estremera
2023	N. Hsueh	T. Estremera

ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:

There are no environmental justice and equity impacts associated with this action. This action is unlikely to or will not result in adverse impacts.

ATTACHMENTS:

None.

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193



Santa Clara Valley Water District

File No.: 24-0414

Agenda Date: 4/22/2024
Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM **Capital Improvement Program Committee**

Government Code § 84308 Applies: Yes No
(If "YES" Complete Attachment A)

SUBJECT:

Approval of March 18, 2024 Capital Improvement Program Committee Minutes.

RECOMMENDATION:

Approve the minutes.

SUMMARY:

In accordance with the Ralph M. Brown Act, a summary of Committee discussions, and details of all actions taken by the Capital Improvement Program Committee, during all open and public Committee meetings, is transcribed and submitted to the Committee for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into the Committee's historical record archives and serve as the official historical record of the Committee's meeting.

ATTACHMENTS:

Attachment 1: 031824 CIP Committee Draft Minutes

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

THIS PAGE INTENTIONALLY LEFT BLANK



CAPITAL IMPROVEMENT COMMITTEE MEETING

DRAFT MINUTES

REGULAR MEETING

MONDAY, March 18, 2024

11:00 AM

(Paragraph numbers coincide with agenda item numbers)

1. CALL TO ORDER:

A regular meeting of the Santa Clara Valley Water District (Valley Water) Capital Improvement Committee (Committee) was called to order in the Valley Water Headquarters Building Boardroom at 5700 Almaden Expressway, San Jose, California, and by Zoom teleconference, at 11:01 a.m.

1.1 Roll Call.

Committee members in attendance were District 4 Director Jim Beall, District 6 Director Tony Estremera, Vice Chairperson, and District 5 Director Nai Hsueh, Chairperson presiding, constituting a quorum of the Committee.

Staff members in attendance were: Gina Adriano, Joseph Aranda, Audrey Beaman, Sarah Berning, Mark Bilski, Wade Blackard, Sam Bogale, Theresa Chinte, Jen Codianne, Jessica Collins, Enrique De Anda, Jiana Escobar, Meenakshi Ganjoo, Rachael Gibson, Vince Gin, Chris Hakes, Cody Houston, Candice Kwok-Smith, Peggy Lam, Cecil Lawson, Dave Leon, Jennifer Martin, Ryan McCarter, Patrice McElroy, Tony Ndah, Karl Neuman, Carlos Orellana, Luz Penilla, Steve Peters, Alison Phagan, Mike Potter, Don Rocha, Breanne Roderick, Amandeep Saini, Miguel Silva, Diahann Soleno, Kirsten Struve, Darin Taylor, Odilia Teixeira, Bhanvani Yerrapotu, and Tina Yoke.

Public in attendance were: XXX-XXX-6626, Molly Culton, Rebecca

Eisenberg, Juan Liem, Forest Olaf Peterson, Rick, SandBena, and VeliMari.

2.TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA:

Chairperson Hsueh declared time open for public comment on any item not on the agenda. There was no one who wished to speak.

2.1. Election of 2024 Capital Improvement Program Committee Officers.

Recommendation: Nominate and elect the 2024 Capital Improvement Program Committee Chairperson and Vice Chairperson.

Chairperson Hsueh deferred the item to the April 2024 Committee meeting. The Committee took no action.

3.APPROVAL OF MINUTES:

3.1. Approval of February 26, 2024 Capital Improvement Program Committee Meeting Minutes.

Recommendation: Approve the minutes.

The Committee considered the attached minutes of the February 26, 2024 Committee meeting.

Public Comments: None.

It was moved by Vice Chairperson Estremera and seconded by Director Beall, and unanimously carried that the minutes be approved.

Regular Agenda:

4.1. Receive and Discuss Information Regarding the Status of Capital Projects in the Construction Phase.

Recommendation: Receive and discuss information regarding the status of capital projects in the design and permitting phase.

Emmanuel Aryee, Ryan McCarter, Bhavani Yerrapotu, and Cecil Lawson reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1 were reviewed by staff per the row and Deputy's initials as follows: Emmanuel Aryee reviewed rows marked EA, Ryan McCarter reviewed rows marked RM, Bhavani Yerrapotu reviewed rows marked BY, and Cecil Lawson reviewed rows marked CL.

Emmanuel Aryee, Ryan McCarter, Bhavani Yerrapotu, and Cecil

Lawson were available to answer questions.

Public Comments: None

The Committee received the information, took no formal action, and requested that staff report to the Committee relating to community concern outreach updates and the RWTP Reliability Improvement Project. The Committee also requested that staff provide information to Director Beall relating to the scope of community outreach regarding the CPRU.

4.2. Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

Recommendation: Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

Ryan McCarter reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachments 1 and 2 and was available to answer questions.

Public Comments: None.

The Committee received the information and took no formal action.

4.3. Review 2023 Capital Improvement Program Committee Work Plan.

Recommendation:

Review the 2024 Capital Improvement Program Committee Work Plan and make adjustments as necessary.

The Committee considered this Item without a staff presentation.

Public Comments: None.

The Committee received the information and took no formal action.

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS:

This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

The Committee took no action.

6. Adjourn:

6.1. Adjourn to Regular Meeting at 11:00 a.m. on April 15, 2024.

Chairperson Hsueh adjourned the meeting at 11:46 a.m.

Dave Leon
Assistant Deputy Clerk II

Date Approved:



Santa Clara Valley Water District

File No.: 24-0292

Agenda Date: 4/22/2024

Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM
Capital Improvement Program Committee

Government Code § 84308 Applies: Yes No
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive and Discuss Information Regarding the Status of Capital Projects in the Feasibility and Planning Phase.

RECOMMENDATION:

Receive and discuss information regarding the status of capital projects in the feasibility and planning phase.

SUMMARY:

The Capital Improvement Committee's (CIP) 2024 Workplan includes monitoring of capital projects during all phases of delivery. Staff will prepare a list of active projects to submit to the Committee each month and will provide detailed information on those where potential and/or significant issues have been identified. The projects presented for discussion will be organized by phases: feasibility/planning, design/permitting, and construction. Staff will present projects to the CIP Committee for review one phase at a time. Projects currently in the feasibility/planning phase are being presented this month.

Attachment 1 is a list of projects in the feasibility/planning phase. A verbal report will be provided at the meeting with more detailed information about recent developments, as requested by the Committee.

ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:

There are no environmental justice and equity impacts associated with this item. This action is unlikely to or will not result in adverse impacts and is not associated with an equity opportunity.

ATTACHMENTS:

Attachment 1: Feasibility and Planning Report

UNCLASSIFIED MANAGER:

Ryan McCarter, 408-630-2983

Kirsten Struve, 408-630-3138

Luz Penilla, 408-630-2228

Emmanuel Aryee, 408-630-3074

Bhavani Yerrapotu, 408-630-2735

Lisa Bankosh, 408-630-2618

Tony Ndah, 408-630-2208

Capital Project Monitoring Report - April 2024

Feasibility and Planning Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions, or potential issues	Deputy's Initials
<u>Water Supply</u>				
1	91084019	Dam Seismic Stability Evaluation	The seismic stability evaluation for Coyote Dam is on track for completion in June 2024. The Chesbro and Uvas Dams evaluations are expected to be completed in December 2024. The Division of Safety of Dams (DSOD) has reviewed the spillway evaluations for Lenihan and Stevens Creek Dams. The project team will use the evaluations to continue the planning phase work, including alternatives analysis.	RM
2	92C40357	FAHCE Implementation	<p>The FAHCE Final Program EIR for Stevens Creek and Guadalupe Watershed was completed on June 30, 2023, and Board certification of the Final Program EIR took place on August 8, 2023. Non-flow measures are being implemented with the FAHCE+ rule curves and FAHCE monitoring program in effect. Live Oak Restoration Reach, Ogier Ponds, along with the Moffett fish barrier removal project, are currently in the planning and feasibility study phase. The implementation status for all Phase 1 measures will be included in the first annual report finalized in the summer of 2025. This annual report is required as a part of the FAHCE Adaptive Management Program, as outlined in the Board certified EIR.</p> <p>The Initialing Parties and the Adaptive Management Team will meet more frequently as the program enters full implementation. Staff will continue to update the Stream Planning and Operations Committee (formerly the FAHCE Ad Hoc Committee) throughout the year.</p>	JB
3	91304001	Palo Alto Purified Water Project - P3	On February 27, 2024, the Board of Directors approved the recommendation by staff to place the Palo Alto Purified Water Project on the Capital Improvement Program (CIP) unfunded list due to project affordability, which impacts water rates. Staff is working to put the project activities on hold and cancel the P3 procurement.	KS
4	93044001	Water Treatment Plant (WTP) Master Plan Implementation Project	Staff is finalizing the Recommended Alternatives Report and beginning to develop the Planning Study Report and Programmatic Environmental Impact Report. Staff plans to hold two public outreach meetings between May and June.	LP
5	95044002	SCADA Master Plan Implementation Project	Staff is working with the project consultant to finalize the Early Implementation Projects' planning phase documentation that will be used in the first phase of improvements done under the proposed master plan follow-up project, the SMPPIP Upgrades - Phase 1 (for upgrades to aging SCADA communications and implementing additional backup control center capabilities). This new capital project has been incorporated into the funded list in the Draft FY25-29 CIP. Additionally, staff is working with the consultant to develop updated SCADA design and implementation standards.	LP
6	95044001	Distribution System Master Plan Implementation Project	Staff continues to perform desktop condition assessments and performance evaluations of pipeline assets, including using wire break data to identify needs that may lead to recommended capital projects. Work is also underway to review and update the Consequence of Failure (COF) scoring methodology for the pipeline assets, which is used to identify risk exposure. Staff is initiating desktop and field condition assessments of the pump station facilities.	LP
7	95084002	10-Year Pipeline Inspection and Rehabilitation Project	Staff is continuing to coordinate with internal stakeholders to update the current program. The environmental consultant is collecting and evaluating environmental information for the Program EIR preparation.	EA

8	93294059	Rinconada WTP Ammonia Storage and Metering Facility Upgrade Project	The project proposal and planning phase work plan was completed in March 2024. Staff has begun working on the Planning Phase, starting with the Problem Definition Report.	EA
Flood Protection				
9	30154019	Guadalupe River, Tasman Dr. to I-880	Staff provided an update on the staff-recommended alternative to the Chiefs and the CIP Committee in August 2023, and is working to finalize the Planning Study Report, Planning to Design Transition Report, and close out the planning phase by June 2024. The Project will then move into the design phase. In addition, staff is continuing to research Forecast Informed Reservoir Operations as a potential future enhancement to the staff-recommended alternative and confirming 1% design flow changes with the US Army Corps of Engineers (USACE) and Federal Emergency Management Agency (FEMA).	BY
10	50284010	Llagas Creek—Lower, Capacity Restoration, Buena Vista Road to Pajaro River	Due to recent significant vegetation removal in the channel, the urgency of this project has decreased, and therefore, the project will be moving to the ‘unfunded’ list for FY2025. On August 4, 2023, Governor Newsom issued Executive Order N-10-23, which suspended some permitting requirements for vegetation management activities for the Pajaro River and its tributaries to facilitate vegetation removal prior to the upcoming winter. Acting in accordance with the order, Valley Water was able to remove approximately 14.5 acres of vegetation in Lower Llagas Creek from October 4 through November 1, 2023, and successfully restore partial channel capacity. Staff is conducting hydraulic modeling to determine if a future capital project is still needed to fully restore freeboard and channel capacity in some areas. Staff is also developing a summary memo to document the project’s status for the end of FY2024.	BY
11	00044026s	San Francisco Bay Shoreline (E7) - Phase II and Phase III	For the Phase II study, which includes Economic Impact Areas (EIAs) 1-4 (from San Francisquito Creek in Palo Alto to Permanente Creek in Mountain View), USACE completed a feasibility analysis that determined that the future economic damage from coastal flooding is not great enough to justify investing federal money in a project such as this until approximately 2060. Valley Water and other stakeholders, including the State Coastal Conservancy, Caltrans, and the Cities of Palo Alto and Mountain View, worked closely with USACE over several months to examine USACE’s analysis, suggest smaller alternatives, and discuss ways the study might be held open and re-scoped. Despite these efforts, the parties concluded that closing this study is the best way forward. Although there is no federal interest in investing in a USACE-led coastal flood protection project at this time, the study authorization will remain open, which leaves the door open for a future study and the possibility of future federal interest as sea levels and consequent potential flood damages increase. In the near term, Valley Water and the regional stakeholders mentioned above will continue to work independently and collaboratively to identify both near-and long-term solutions for potential high-risk coastal flooding and sea level rise. USACE kicked off the Phase III Feasibility Study for EIAs 5-10 (from Permanente Creek in Mountain View to Guadalupe River in San Jose) in August 2023. Valley Water and the State Coastal Conservancy are the local sponsors of the project. USACE held a planning charrette to identify initial project alternatives with study stakeholders in early December and a public scoping meeting in mid-February. USACE's first milestone was delayed two months, from February to April 2024.	BY
Water Resources Stewardship				
12	26044003	SCW Ogier Ponds Separation from Coyote Creek (D4.2)	Negotiations with the primary landowner (Santa Clara County Parks) on a property-use agreement (Master License Agreement) are ongoing. The Feasible Alternatives Report is currently being finalized internally for feedback from partners and stakeholders. The project team has tentatively identified Alternative 6 as the Least Environmentally Damaging Practicable Alternative, or Recommended Alternative, for the Planning Study Report. The Recommended Alternative will be further developed over the next several months to provide preliminary design information for	LB

steelhead trout habitat features, a high-flow diversion system, and an outlet structure. The project team is on track to complete the Planning Study Report this year.

13	20444002	Pond A4 Resilient Habitat Restoration Project (Phase 1 - Planning and Design)	<p>The Phase 1 Project, while related to the Calabazas/San Tomas Aquino Creek-Marsh Connection Project, was approved as a planning and design-only project in the Board adopted CIP FY 2024-28 Five-Year Plan. The Project aims to continue the beneficial reuse of Stream Maintenance Program sediment, supporting a similar objective of the SCW D3 Project. The State Coastal Conservancy Board approved \$5 million in grant funding for the Project in February 2024. Staff utilized an accelerated process under the California Department of Fish and Wildlife "Cutting the Green Tape" initiative and received their concurrence for the application of a statutory exemption from CEQA. The geotechnical investigation for the Project is complete, and a draft report has been submitted. Currently, an alternative analysis is being conducted with the goal of completing 60% of the design by May or June 2024. The permit application will be submitted around the same time, focusing on addressing the written comments generated from the October 2023 Pre-Application BRRIT Meeting.</p>	LB
----	----------	---	--	----

14	20444001	Calabazas/San Tomas Aquino Creek-Marsh Connection Project	<p>Valley Water, in collaboration with California State Coastal Conservancy and others, including Strategy to Advance Flood protection, Ecosystems and Recreation (SAFER) Bay, prepared a regional application for the National Oceanic and Atmospheric Administration (NOAA) Coastal Resiliency Grant. The application, submitted in early February, included a request for \$15M in construction funding for the Project. An agency coordination meeting is planned for April, and a public meeting is scheduled for May. Feasible alternatives with preliminary rankings will be presented during these meetings. A Bay Restoration Regulatory Integration Team (BRRIT) meeting was held in early March to present a conceptual proposal for a pilot study of a nature-based solution using a proposed horizontal levee along the southern boundary of Pond A4 for the treatment of reverse osmosis concentrate, wastewater, and stormwater. The proposal was well received, and staff will follow up with the Regional Water Quality Control Board staff to discuss any relevant NPDES requirements further.</p>	LB
----	----------	---	--	----

Buildings & IT

15	60204032	Headquarters Operations Building	<p>The Project team has worked with a consultant on a report that analyzed strategies for the Maintenance Building. Each strategy detailed optional methods for renovating the building to meet the current needs for space and other operational functions. Included in this report were schedule impacts and a rough order of magnitude cost analysis for each strategy. Staff collaborated with management to evaluate the strategies presented in the report and presented a staff-recommended alternative to the CIP committee for input at the February 26 meeting. Project team is progressing with developing detailed plans and specifications for the staff-recommended alternative.</p>	TN
----	----------	----------------------------------	--	----

THIS PAGE INTENTIONALLY LEFT BLANK



Santa Clara Valley Water District

File No.: 24-0293

Agenda Date: 4/22/2024

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM Capital Improvement Program Committee

Government Code § 84308 Applies: Yes No
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

RECOMMENDATION:

- A. Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract; and
- B. Receive information on upcoming Change Orders for Coyote Creek Modifications - North and South Channel work changes, which will result in a Board-level approval.

SUMMARY:

During the May 17, 2021, Capital Improvement Program (CIP) Committee meeting, staff provided an update on the Anderson Dam Tunnel Project (ADTP) No. 91864006. The Committee requested staff provide monthly change order status updates after construction of the ADTP commenced on July 7, 2021.

Project Background

Santa Clara Valley Water District (Valley Water) is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020, directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the ADTP.

On April 27, 2021, Valley Water's Board of Directors awarded the construction contract for the ADTP to the top-ranked, best-value proposer, Flatiron West, Inc. (Flatiron), in the sum of \$161,140,321 and approved a contingency amount of \$40,000,000 (25% of the contract price). The Board directed staff to discuss delegating authority for contingency expenditures with the CIP Committee.

By unanimous roll call vote at its May 17, 2021, meeting, the Committee approved recommending to the full Board that it consider delegating authority to staff to approve change orders for the ADTP at the amounts stated below and that the CIP Committee receive regular monthly reports with

information regarding approved change orders, pending change orders, and the cumulative amounts. Valley Water's Board of Directors accepted the CIP Committee recommendations at its regular meeting on May 25, 2021.

Delegated Approval Authority

Unit Manager: Up to \$100,000
Assistant Operating Officer: Up to \$250,000
Deputy Operating Officer: Up to \$500,000
Assistant Chief Executive Officer: Up to \$2.5 million
Chief Executive Officer: Up to \$5 million
Board of Directors: \$5 million and above

Upcoming Construction Contract Change Order Work for Board of Directors Approval Authority

A forthcoming package of change order items regarding the Coyote Creek Modifications - North and South Channel work will have a combined estimated value that exceeds the CEO approval limit of \$5 million. The various pieces of this work are undergoing cost negotiations, with work planned to begin in spring 2024. Staff will present the changes required for this Project on the North and South Channel to the Board of Directors in May and request delegation of approval authority to the CEO for the fully negotiated change orders once all the details have been finalized.

Forthcoming Coyote Creek Modifications, North and South Channel: Valley Water issued Contract Document Clarification (CDC) 007.3 in January 2023 to incorporate design changes to address requirements from environmental resource agencies, including the State Water Resources Control Board, the National Marine Fisheries Service, and the U.S Army Corps of Engineers. The scope of work encompasses revisions to the north and south channels of Coyote Creek and modifications to the Diversion Channel rip rap lining that connects to Coyote Creek.

A new four-cycle labyrinth weir was introduced to be installed in the north channel, which has a total structure dimension of 117 feet long by 66.5 feet wide and 16.5 feet high, composed of over 1,800 cubic yards of concrete, and will be installed on a 94-foot-wide by 66.5-foot-long concrete apron. Tapered wingwalls will also be installed both upstream and downstream of the weir to provide a transition to the sloped north channel sections. The north channel realignment, slope adjustments, and increased excavation depth will help convey higher flows (up to 6,020 cubic feet per second). Larger-sized imported rock is required for scour protection on the slopes and channel due to changes in flows from the labyrinth weir. The scour protection will also benefit water quality in Coyote Creek by reducing turbidity during large flow events. To offset the impacts of construction, a wetland mitigation planting bench will be constructed along the north channel of Coyote Creek. Planting and seeding will be installed on a bench approximately 250 feet long and of variable width from 10 to 32 feet wide along the bank of the north channel.

The south channel cantilever weir was also modified to have a larger notch with removable stoplogs

for adjustable flows and increased excavation to place additional rip rap downstream of the weir. The design of these weirs will help distribute low flows to the south channel and higher flows to the north channel. The added scope for north and south channel modifications requires approximately 18,000 cubic yards of additional excavation and an additional 7,800 cubic yards of rip rap material to be placed.

The scope also includes reopening and reestablishing the connection to Coyote Creek downstream of the north channel weir, approximately 550 feet (from Station 8+35 to 13+65) to the north and south channel confluence, referred to as the North Channel Extension. This work was originally planned to happen during the subsequent Anderson Dam Seismic Retrofit Project. However, the project team recognizes opportunities for efficiency and environmental benefit by advancing the completion of the north channel reopening work to include the extension portion. The North Channel Extension will be graded and sloped to provide positive drainage due to existing low spots that could create fish stranding hazards, prohibited by resources agencies, after high creek flows or releases from Anderson Dam. This scope also includes an updated dewatering plan, temporary dike design, installation, and removal to complete the North Channel Extension.

Recent testing of organic material within the North Channel indicated more phytophthora infestation than previously thought. The revised north channel cost includes additional phytophthora soil management to ensure compliance with environmental regulations.

The changes associated with the additions to the Coyote Creek Modifications - North and South Channel work, including the added North Channel Extension scope, is estimated to be valued at \$13,000,000.00. An overview of the changes associated with the additions to the Coyote Creek Modifications is provided in the attached PowerPoint (Attachment 3).

Construction Contract Change Orders Status

There is one status update to a previous Contract Change Order (CCO) #32 that was presented to the CIP Committee on March 18, 2024 and one new CCO #33 to present to the CIP Committee. The value of CCO #33 is \$1,086,685.00. Included for reference are two attachments providing information on construction contract change orders (Attachment 1) and construction contract financials (Attachment 2).

Status Update to Contract Change Order #32: CCO #32 was presented to the CIP Committee on March 18, 2024 and included one change item, Additional Cost for Diversion Outlet Structure (DOS) Rock Anchors Installation, valued at \$151,565.00. CCO #32 will now include one additional change item, Geological and Phytophthora Test Pits, valued at \$14,327.00. The Geological and Phytophthora Test Pits change item was presented to the CIP Committee on December 11, 2023 to be included as part of CCO #27. Additional time was required to reach an agreement on the final cost of this change item; therefore, it was subsequently removed from CCO #27. The cost has now been finalized and will be included as part of CCO #32, which brings the total value of CCO #32 to \$165,892.00.

Contract Change Order #33

1. **Diversion Outlet Structure Top Baffle** - Valley Water issued Contract Document Clarification (CDC) 031 to incorporate an upper concrete baffle within the Diversion Outlet Structure. Design modifications were necessary to improve energy dissipation within the chambers by redirecting discharge flows from two 11-foot Fixed Cone Valves down to the stilling basins. Scope of work for the new upper baffle (spanning 86-feet wide by 5-feet thick) includes a revised falsework system and re-sequencing of roof installation placement, additional formwork and rebar installation, and additional measures for placement of special mass concrete which includes a longer curing period (56 day compared to 28 days for typical concrete less than 3-feet thick). This portion of the change order is estimated to be valued at \$350,000.00.

2. **Articulated Joint Mockup** - Valley Water issued CDC 004 to address comments from the Division of Safety of Dams (DSOD) and FERC, which included changes to the steel reinforcement for concrete articulated joints to be installed at fault zones within the Low-Level Outlet Tunnel. Due to the complexity of the design and the significant amount of reinforcement required within the articulated joint sections that need to be encased in concrete, it was determined a mockup was necessary to simulate the two types of articulated joint sections (5-foot and 10-foot) that will be installed in the tunnel. The mockups will confirm whether the heavily reinforced articulated joints are constructable, given the complexity of the design and tight rebar spacing. Additionally, the mockups will identify constructability issues prior to actual installation taking place inside the tunnel to mitigate rework or damage to the tunnel lining, including schedule delays and associated cost impacts. This portion of the change order covers all costs associated with constructing a 5-foot and 10-foot mockup outside the tunnel. The scope also includes placing a concrete working slab, furnishing, and installing rebar for the articulated joints, constructing a steel frame to hang the articulated joint rebar cage, installing wall formwork including the top arch, pumping concrete to encase the articulated joints, and removing the mockups upon completion. This portion of the change order is estimated to be valued at \$736,685.00.

ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:

There are no environmental justice and equity impacts associated with this item. This action is unlikely to or will not result in adverse impacts and is not associated with an equity opportunity.

ATTACHMENTS:

- Attachment A: Government Code §84308
- Attachment 1: Construction Contract Change Orders Status
- Attachment 2: Construction Contract Financial Status
- Attachment 3: PowerPoint

UNCLASSIFIED MANAGER:

File No.: 24-0293

Agenda Date: 4/22/2024
Item No.: 4.2.

Ryan McCarter, 408-630-2983

THIS PAGE INTENTIONALLY LEFT BLANK

Attachment A – Gov. Code § 84308

Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

List of Parties and Their Agents/Representatives Known to Staff

<u>Organization Name</u>	<u>Name</u>	<u>Role</u>	<u>Location</u>
Flatiron West, Inc.	Shawn Golden	Vice President	2100 Goodyear Rd. Benicia, CA 94510

List of Participants and Their Agents/Representatives Known to Staff

<u>Organization Name</u>	<u>Name</u>	<u>Role</u>	<u>Location</u>

THIS PAGE INTENTIONALLY LEFT BLANK

**Anderson Dam Tunnel Project
Construction Contract Change (CO) Order Status**

CCO #	CIP Committee Date	Approval Date	Description	Amount	Contingency Amount	Approval Level	Status
		4/27/2021	Original Contract	\$161,140,321.00	\$40,000,000.00	Board	
1	1/18/2022	12/16/2021	Additional Tree Removal, Protection and Relocation	\$460,250.41	\$39,539,749.59	DOO	Approved
2	2/14/2022	4/26/2022	Outlet Works Vertical Shaft Re-sizing	\$3,783,119.15	\$35,756,630.44	CEO	Approved
3	5/16/2022	5/17/2022	Water Quality Monitoring Equipment, Miscellaneous demolition, TCEAP VHF/UHF Radios	\$131,603.28	\$35,625,027.16	AOO	Approved
4	6/13/2022	6/30/2022	Tunnel and Miscellaneous Items from CDC-001/001.1, Remove Taber Drilling from Scope	\$386,801.98	\$35,238,225.18	DOO	Approved
5	6/13/2022	6/30/2022	Upsizing Soil Nail Rows D&E from #18 to #20	\$228,562.00	\$35,009,663.18	DOO	Approved
6	7/18/2022	8/6/2022	Increased Quantity of Diversion Portal Excavation, Assistance with Geological Investigations, Internet access to Trailer # 2, and Change of Infill material for High Level Outlet Works (HLOW) Shaft	\$63,063.32	\$34,946,599.86	UM	Approved
7	9/26/2022	10/31/2022	DOS Foundation Excavation - Revised Soil Nail Wall, and Additional Environmental Compliance for Water Quality Monitoring and Soil Testing	\$1,526,724.84	\$33,419,875.02	ACEO	Approved
8	10/18/2022	10/26/2022	Disposal of Regulated and Organic Material	\$80,000.00	\$33,339,875.02	UM	Approved
9	11/14/2022	11/18/2022	3-D Modeling of HLOW Shaft	\$101,101.00	\$33,238,774.02	AOO	Approved
10	12/12/2022	12/19/2022	Monitoring of Additional Piezometer, Supplementary Support for the Transition Zone, DOS Portal Conditions, Partnering	\$1,971,946.48	\$31,266,827.54	ACEO	Approved
11	2/13/2023	12/19/2022	Time Related Overhead Time Impact Analysis 002	\$2,515,330.18	\$28,751,497.36	CEO	Approved
12	2/13/2023	1/19/2023	Increased Quantity of Diversion Tunnel Excavation Class 5	\$1,800,000.00	\$26,951,497.36	ACEO	Approved
13	2/13/2023	2/24/2023	Diversion Outlet Structure (DOS) Energy Dissipation Chamber Grated Access Opening	\$26,000.00	\$26,925,497.36	UM	Approved
14	3/20/2023	4/03/2023	Increased Quantity for 18.5 Foot Diameter Tunnel Excavation Class 5, Increased Quantity for Bid Item No. 2h, 2i, 2j, 2k. Decreased Quantity for Bid Item No. 5a and 5b.	\$156,000.00	\$26,769,497.36	AOO	Approved
15	3/20/2023	4/18/2023	Diversion Outlet Structure CLSM Saturday Premium Time, Diversion Portal Soil Nail Wall Condition	\$436,753.65	\$26,332,743.71	DOO	Approved
16	4/10/2023	5/12/2023	Surge Protection Device for Main Switchgear, CDC 015 Water Quality Instrumentation, Tree Trimming for Pacific Gas & Electric Pole Relocation	\$84,200.00	\$26,248,543.71	AOO	Approved
17	4/10/2023	5/12/2023	Increased Bid Item No. 11A Allowance - Other Wildlife and Fish Species, Specification Section 19.09	\$145,080.00	\$26,103,463.71	AOO	Approved
18	5/15/2023	5/30/2023	Traffic Support for Press Event	\$2,023.00	\$26,101,440.71	AOO	Approved
19	6/30/2023	5/25/2023	Increase Bid Item No. 5x Tunnel Excavation in Transition Zone - Class 5	\$994,500.00	\$25,106,940.71	ACEO	Approved
20	6/30/2023	8/10/2023	18" Hydro Return Line Decommissioning, Low Level Outlet Tunnel Steel Sets Enlargement, DPP8 Boring Survey Assistance, Air Vent Pipe Procurement, CDC 007.3 North Channel FWI Scope 2023, CDC 007.3 North Channel DTDS Scope 2023.	\$1,175,413.01	\$23,931,527.70	ACEO	Approved
21	6/30/2023	7/26/2023	Time Related Overhead Time Impact Analysis 003	\$884,042.66	\$23,047,485.04	ACEO	Approved

**Anderson Dam Tunnel Project
Construction Contract Change (CO) Order Status**

CCO #	CIP Committee Date	Approval Date	Description	Amount	Contingency Amount	Approval Level	Status
22	8/21/2023	7/31/2023	Additional Shotcrete in the Transition Zone, Increase in Bid Item No. 5g – Transition Zone Rock Bolts	\$424,016.00	\$22,623,469.04	DOO	Approved
23	8/21/2023	9/27/2023	Anderson Force Main Galvanic Cathodic Protection, Air Vent Pipe Installation	\$573,874.58	\$22,049,594.46	ACEO	Approved
24	10/16/2023	11/21/2023	Micro-Tunnel Boring Machine (MTBM) Lake Tap Tie Down, Reservoir Log Boom Relocation	\$108,205.00	\$21,941,389.46	AOO	Approved
25	10/16/2023	11/27/2023	North Channel Tree Removal, Allowance Increase for Additional Environmental Compliance for Water Quality Monitoring and Soil Testing, Access Hatch for HLOW Shaft.	\$848,456.00	\$21,092,933.46	ACEO	Approved
26	11/13/2023	12/23/2023	Quantity Increase for Bid Item No. 5d – 24 Foot Diameter Tunnel Excavation Class 3, Quantity Increase for Bid Item No. 5g – Transition Zone Rock Bolts, Allowance Increase for Bid Item No. 11a – Other Wildlife and Fish Species Increase, V-Ditch Extension at 460, Winterization of North Channel Dike 2023	\$833,772.00	\$20,259,161.46	ACEO	Approved
27	12/11/2023	1/04/2024	Cost Increase for DOS Foundation Excavation – Revised Soil Nail Wall ,Quantity Increase for Bid Item No. 5r – Pre-excavation Drilling Within Rock Tunnel.	\$1,341,261.43	\$18,917,900.03	ACEO	Approved
28	12/11/2023	1/19/2024	Quantity Increase for Bid Item 4c Lake-Tap Excavation (Dredging) Microtunnel Boring Machine Landing Pad	\$570,375.00	\$18,347,525.03	ACEO	Approved
29	1/22/2024	12/26/2023	Bid Item Increase 5o - Probing within Rock Tunnel	\$370,800.00	\$17,976,725.03	DOO	Approved
30	1/22/2024	2/14/2024	Revised Motor Control Center (MCCA) Schedule, Additional Telemetry Pull Box, Material Escalation due to Delay in Issuing Notice to Proceed (NTP) 2A/2B, Credit for Hoot Owl Way Landslide Supplemental Work.	-\$1,821,904.61	\$19,798,629.64	ACEO	Approved
31	2/26/2024	TBD	Cost increase for North Channel Dewatering Wells, 2024 Reservoir Log Boom Relocation Allowance, Alternative Initial Lining - Sawtooth Design Method, Concrete Abrasion Testing, Allowance for Trash Rack Foundation Design Changes	\$1,457,191.11	\$18,341,438.53	ACEO	Pending
32	3/18/2024	TBD	Additional Cost for Diversion Outlet Structure (DOS) Rock Anchors Installation, Geological and Phytosphthora Test Pits	\$165,892.00	\$18,175,546.53	AOO	Pending
DCO #	CIP Committee Date	Approval Date	Description	Amount	Contingency Amount	Approval Level	Status
1	09/26/22	10/05/22	Milestone 7, 9, and 10 Completion Revisions	\$0.00	\$18,175,546.53	UM	Approved

New CCOs for CIP Committee

Pending CCO #	CIP Committee Date	Approval Date	Description	Amount	Contingency Amount	Approval Level	Status
33	4/15/2024	TBD	Diversion Outlet Structure Roof Top Baffle, Articulated Joint -Mockup	\$1,086,685.00	\$17,088,861.53	ACEO	Pending

Total COs Approved	33	Total	\$21,824,453.47	\$18,175,546.53			
Total COs Pending	1	Total	\$1,086,685.00	\$17,088,861.53			

Total Number of COs (Approved & Pending)	Total Amount of COs (Approved & Pending)
34	\$22,911,138.47

Anderson Dam Tunnel Project - Construction Contract Financials

Bid Item No.	Description	Amount	Balance Remaining	Billing Through Feb 2024	
				Percent (%)	Amount
1	MOBILIZATION AND DEMOBILIZATION	\$ 16,150,000.00	\$ 2,531,893.74	84%	\$ 13,618,106.26
2	SITE PREPARATION	\$ 5,713,000.00	\$ 616,853.42	89%	\$ 5,096,146.58
3	DIVERSION PORTAL	\$ 6,173,496.00	\$ 261,886.40	96%	\$ 5,911,609.60
4	LAKE-TAP PORTAL	\$ 4,215,000.00	\$ 958,380.00	77%	\$ 3,256,620.00
5	TUNNEL EXCAVATION AND LINING	\$ 47,438,325.00	\$ 24,130,914.99	49%	\$ 23,307,410.01
6	SHAFT EXCAVATION AND LINING	\$ 10,100,000.00	\$ 4,336,360.00	57%	\$ 5,763,640.00
7	MICROTUNNEL	\$ 9,982,000.00	\$ 9,052,000.00	9%	\$ 930,000.00
8	DIVERSION OUTLET STRUCTURE	\$ 48,678,550.00	\$ 33,882,558.11	30%	\$ 14,795,991.89
9	COYOTE CREEK MODIFICATIONS	\$ 6,421,550.00	\$ 3,848,187.00	40%	\$ 2,573,363.00
10	SUPPLEMENTAL WORK ITEMS	\$ 5,668,400.00	\$ 2,260,000.00	60%	\$ 3,408,400.00
11	ALLOWANCES	\$ 600,000.00	\$ 244,177.31	59%	\$ 355,822.69
		Total Original Contract Amount	Total Balance Remaining	Percent (%) Billed	Total Billed To Original Contract Amount
		\$ 161,140,321.00	\$ 82,123,210.97	49%	\$ 79,017,110.03

CCOs	Description	Amount	Balance Remaining	Billing Through January 2024*	
				Percent (%)	Amount
CCO 1-30	CONTRACT CHANGE ORDERS (CCO)	\$ 20,200,693.42	\$ 4,300,770.38	79%	\$ 15,899,923.04
		Total Contract Amount Including CCOs	Total Balance Remaining Including CCOs	Total Percent (%) Billed Including CCOs	Total Billed Including CCOs
		\$ 181,341,014.42	\$ 86,423,981.35	52%	\$ 94,917,033.07

THIS PAGE INTENTIONALLY LEFT BLANK



Anderson Dam Tunnel Project – Coyote Creek Modifications

Presented by:
Ryan McCarter, Deputy Operating Officer - Dam Safety and Capital Delivery

Capital Improvement Program Committee
April 22, 2024

ADTP – Channel Improvements

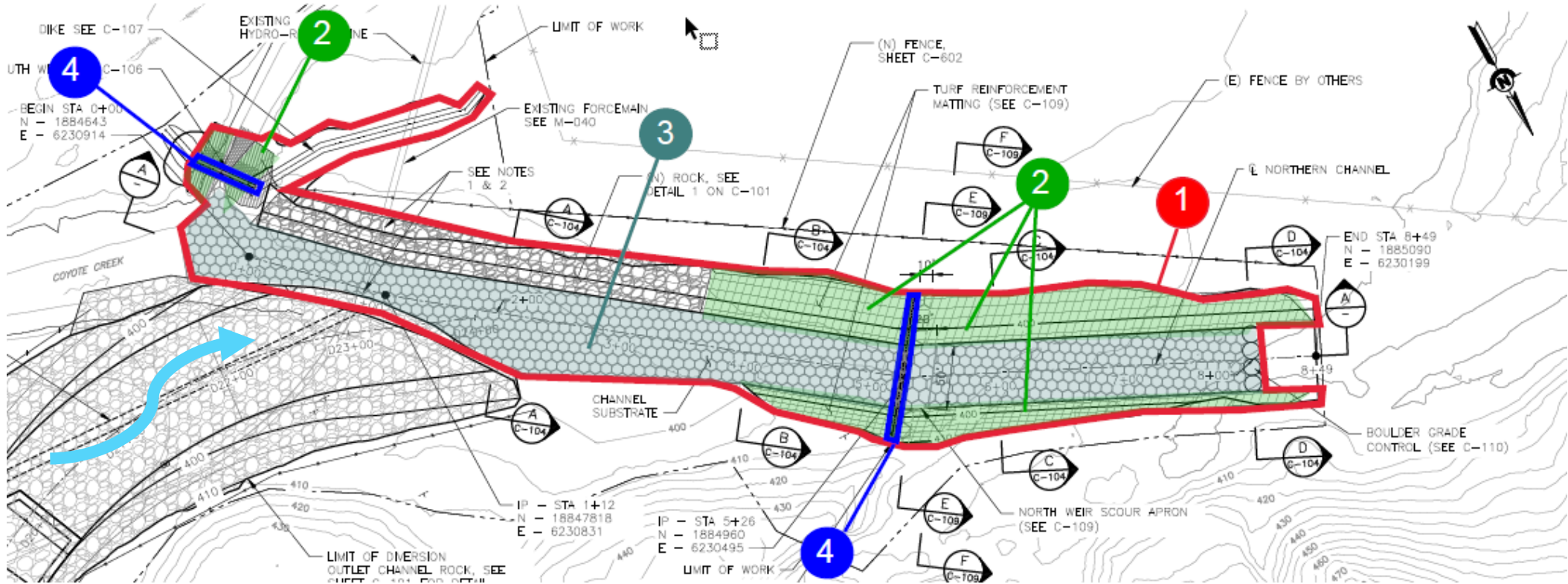
2



valleywater.org

North and South Channel Design at Bid

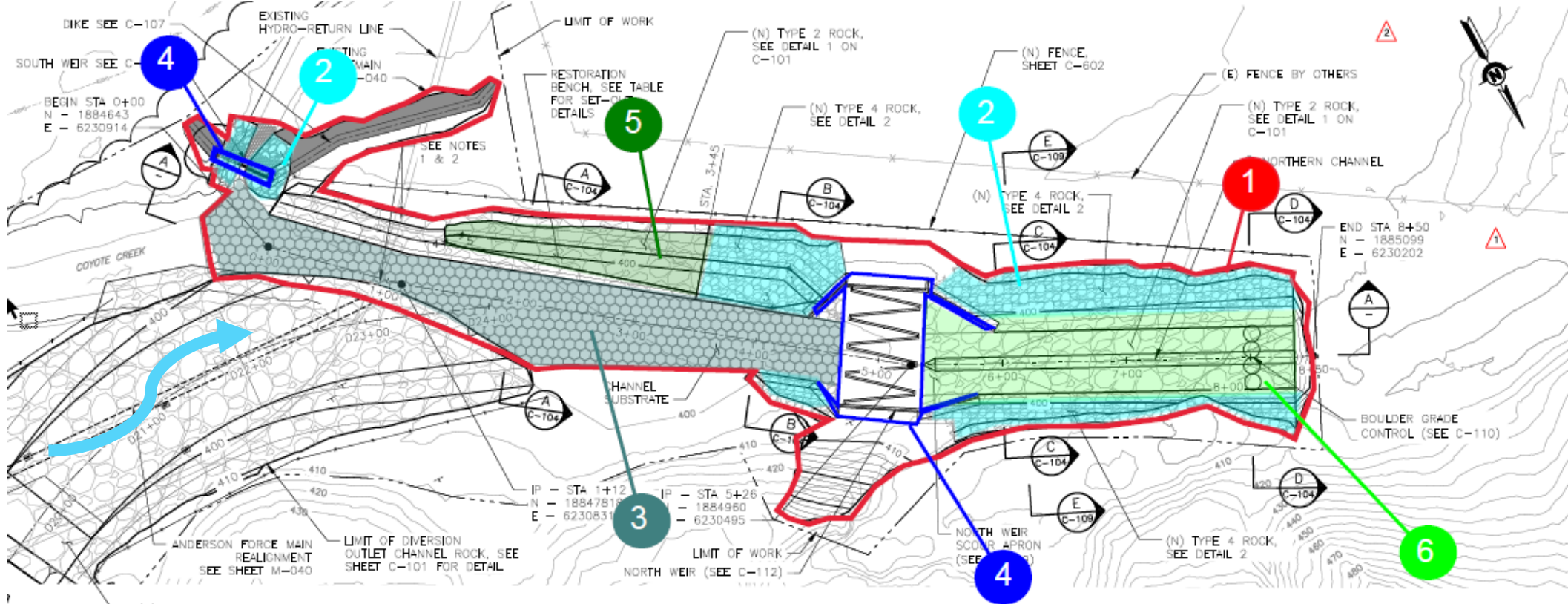
3



- 1 Original improvement footprint
- 2 Turf Reinforced Matting (TRM)
- 3 Large volume of reused material for channel substrate
- 4 Small non-adjustable weirs

valleywater.org

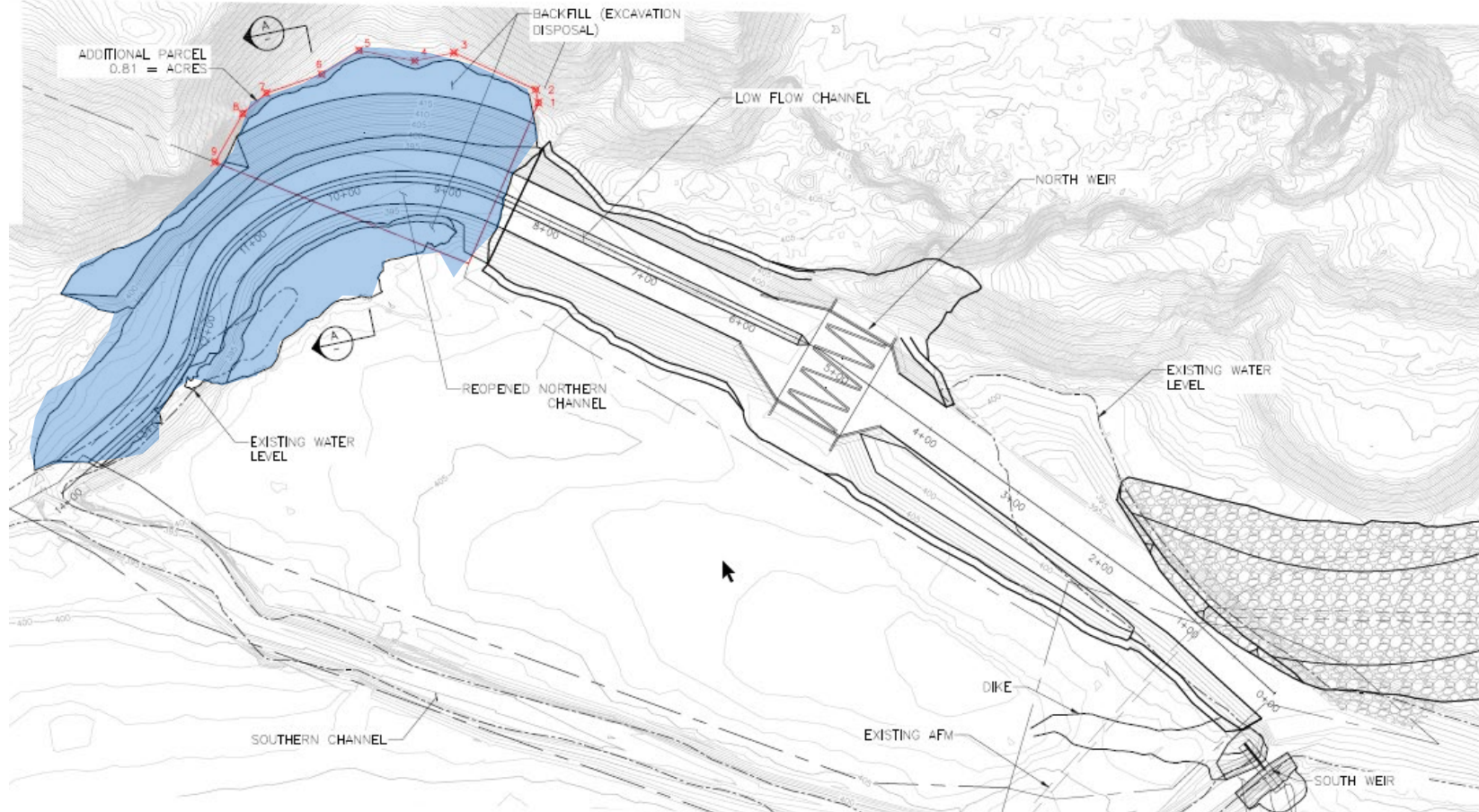
Modifications based on Agency Review



- 1** Larger improvement footprint
- 2** Imported Rock to replace TRM
- 3** Reduced volume of reused material for channel substrate
- 4** Larger adjustable and labyrinth weirs
- 5** Wetland planting bench
- 6** Imported rock to replace reused substrate

North Channel Extension

- ✓ Eliminate fish stranding hazard
- ✓ Create positive drainage



5

valleywater.org

ADTP – Channel Improvements with extension

6



valleywater.org



Valley Water

Clean Water • Healthy Environment • Flood Protection

THIS PAGE INTENTIONALLY LEFT BLANK



Santa Clara Valley Water District

File No.: 24-0295

Agenda Date: 4/22/2024
Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM **Capital Improvement Program Committee**

Government Code § 84308 Applies: Yes No
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive an update and provide feedback on the Water Treatment Plant Master Plan Implementation Project No. 93044001.

RECOMMENDATION:

Receive an update and provide feedback on the Water Treatment Plant Master Plan Implementation Project No. 93044001.

SUMMARY:

As a follow-up to staff's ongoing quarterly Feasibility and Planning Phase communications to the Capital Improvement Program (CIP) Committee, including staff's presentation on February 13, 2023, staff has prepared an update (Attachment 1) on the Water Treatment Plant Master Plan Implementation Project (Project). The attached presentation explains how the master plan recommendations will eventually be integrated into the CIP, includes a brief update on the Project's progress since February 2023, and presents initially proposed Recommended Project Alternatives for CIP Committee feedback. The project team plans to gather public feedback in May and June of this year and report back to the CIP Committee at the August meeting.

Background

The Project scope entails having a consultant prepare a 30-year implementation plan that identifies projects to replace or upgrade Valley Water's utility assets and address increasingly stringent water quality regulations at the Rinconada Water Treatment Plant, Penitencia Water Treatment Plant, Santa Teresa Water Treatment Plant, and the Silicon Valley Advanced Water Purification Center. The consultant will also prepare a programmatic Environmental Impact Report pertaining to the projects. The Project started in FY 2022 and will take four years to complete.

Update

Attachment 1 provides updates on the following:

1. Background & Purpose
2. Master Plan Integration into the CIP
3. Project Overview & Update
4. Public Outreach
5. Next Steps
6. Q&A
7. Additional Project Details

Staff will continue to provide quarterly updates to the CIP Committee on Project progress and include requests for Committee input on key project proposals and recommendations.

ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:

There are no environmental justice and equity impacts associated with Water Treatment Plant Master Plan Implementation Project No. 93044001. This action is unlikely to or will not result in human health or environmental effects and is not associated with an equity opportunity.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:

Luz Penilla, 408-630-2228



Receive an Update on the Water Treatment Plant Master Plan Implementation Project No. 93044001

Presented by:
Luz E. Penilla, Assistant Officer (OIWM); Barton Ching, Senior Engineer (Business Support & Asset Management)
Capital Improvement Program Committee
April 22, 2024

Outline

1. Background & Purpose
2. Master Plan Integration into the CIP
3. Project Overview & Update
4. Public Outreach
5. Next Steps
6. Q&A
7. Additional Project Details

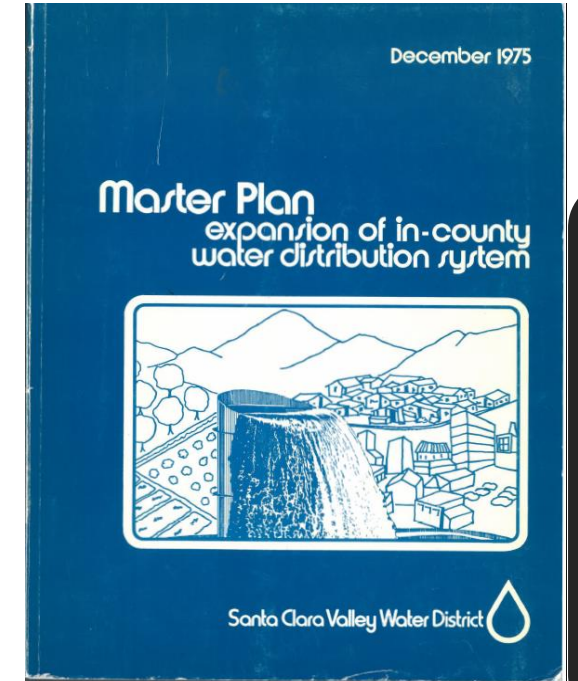
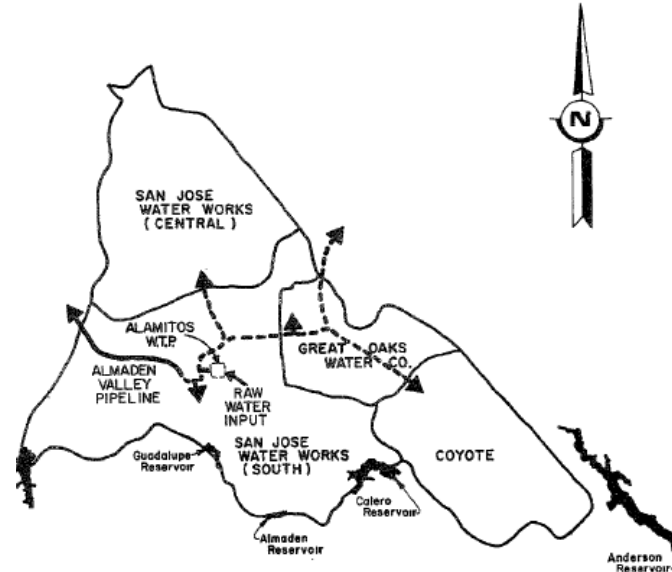
Background & Purpose

1. Last comprehensive infrastructure master plan was in 1975

2. Purpose of Proposed Master Plan

Prioritizes the Needs for:

- A. Aging and obsolete infrastructure
- B. Changes in future demands
- C. Upcoming regulatory requirements
- D. Need to improve efficiency
- E. Need for redundancy to enable maintenance and prevent service outages
- F. New supplies coming online

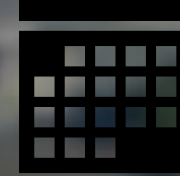


Project Overview

Consultant:
Carollo Engineers



Budget: \$9.46M
Carollo: \$6.46M
VW Labor: \$3.00M



Schedule:
Nov 2021 – Oct 2025

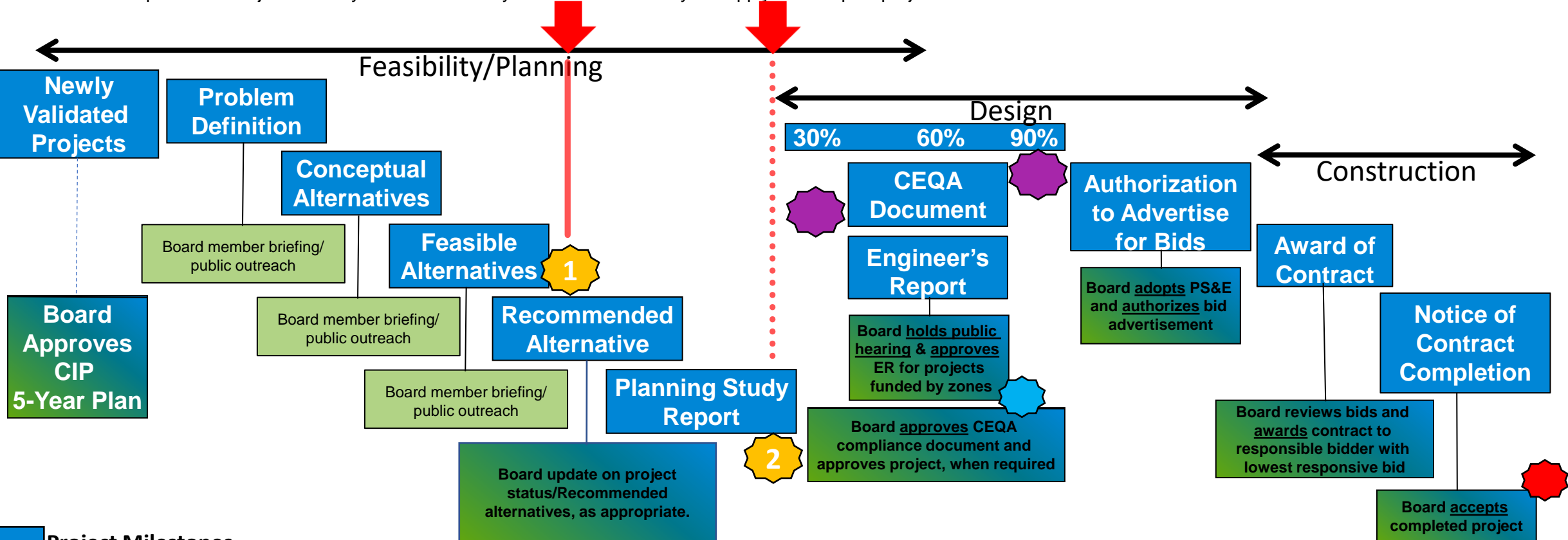
Key Deliverables:

1. 30-year WTP program of recommended capital projects for Penitencia, Rinconada, Santa Teresa Water Treatment Plants and the Advanced Water Purification Center.
2. 10% design for projects within first 10 years of planning horizon
3. Programmatic Environmental Impact Report (PEIR)

CIP Processes Overview

BOARD ACTION & ENGAGEMENT: CAPITAL PROJECT DELIVERY PROCESS*

* This is an example of the Project Delivery Process that may be followed and may not apply to all capital projects.



- Project Milestones
- Board Member Engagement
- Board Engagement/Action

Additional Board Engagement Points for Complex Projects

Additional Board Engagement Points for Operations & Maintenance Impacts

Board Action: Approval/Adoption of Environmental = Approval of Project

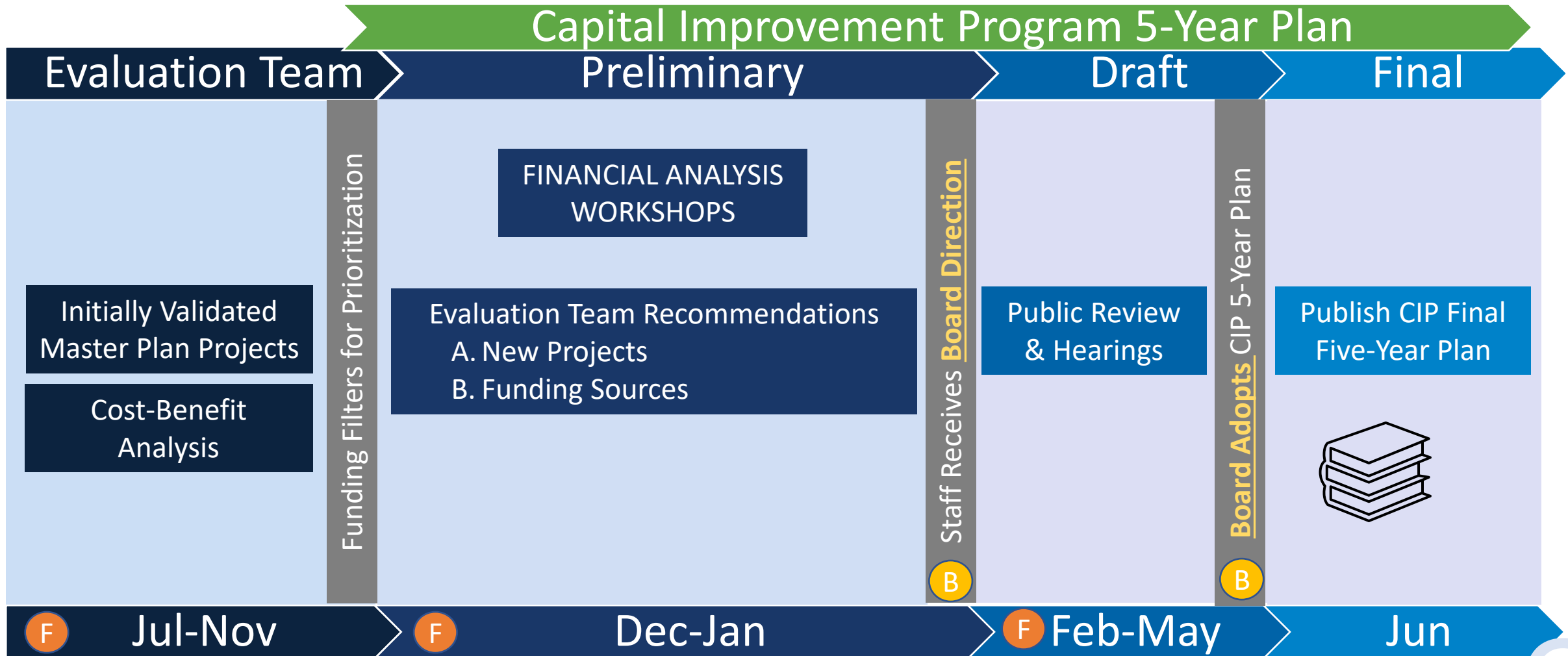
Staff: Reassess Risk for Remaining Contingency

47

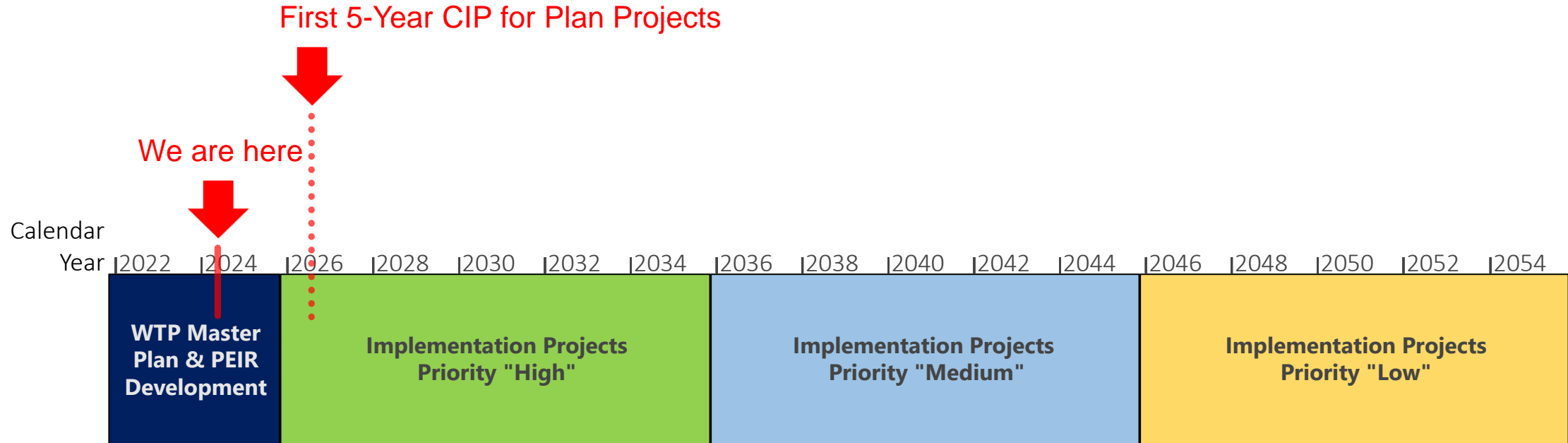


Master Plan Integration into **FY27** CIP 5-Year Plan

Annual CIP 5-Year Plan Timeline



Timeline



WTP Master Plan Development Process

CIP Committee
2/13/2023

CIP Committee
4/15/2024

We have a preliminary set of
recommended alternatives



Identified WTP Needs

1. Basis of Planning

2. System Evaluation

3. Alternatives Development

4. Final Project Plan

590
Discrete Needs

1. Condition-based and age-based needs
 - A. Assets with replacement value over \$20,000
 - B. Critical for meeting level of service
 - C. Useful life over 2 years

2. Process improvement needs
 - A. Process evaluations
 - B. Input from plant staff
 - C. Plant goals and objectives
 - 1) Capacity
 - 2) Reliability
 - 3) Water Quality

Developed Preliminary Recommended Alternatives



Current:

- 1. Conceptual Designs (2%)
- 2. Class 5 Cost Estimates
 - A. -50% to +100%
 - B. Do not include associated small assets

Consolidating Into Implementable Packages

1. Basis of Planning

2. System Evaluation

3. Alternatives Development

4. Final Project Plan

590
Discrete Needs

151
Recommended
Solutions in First 10
Years

7
Capital Projects in
First 10 Years

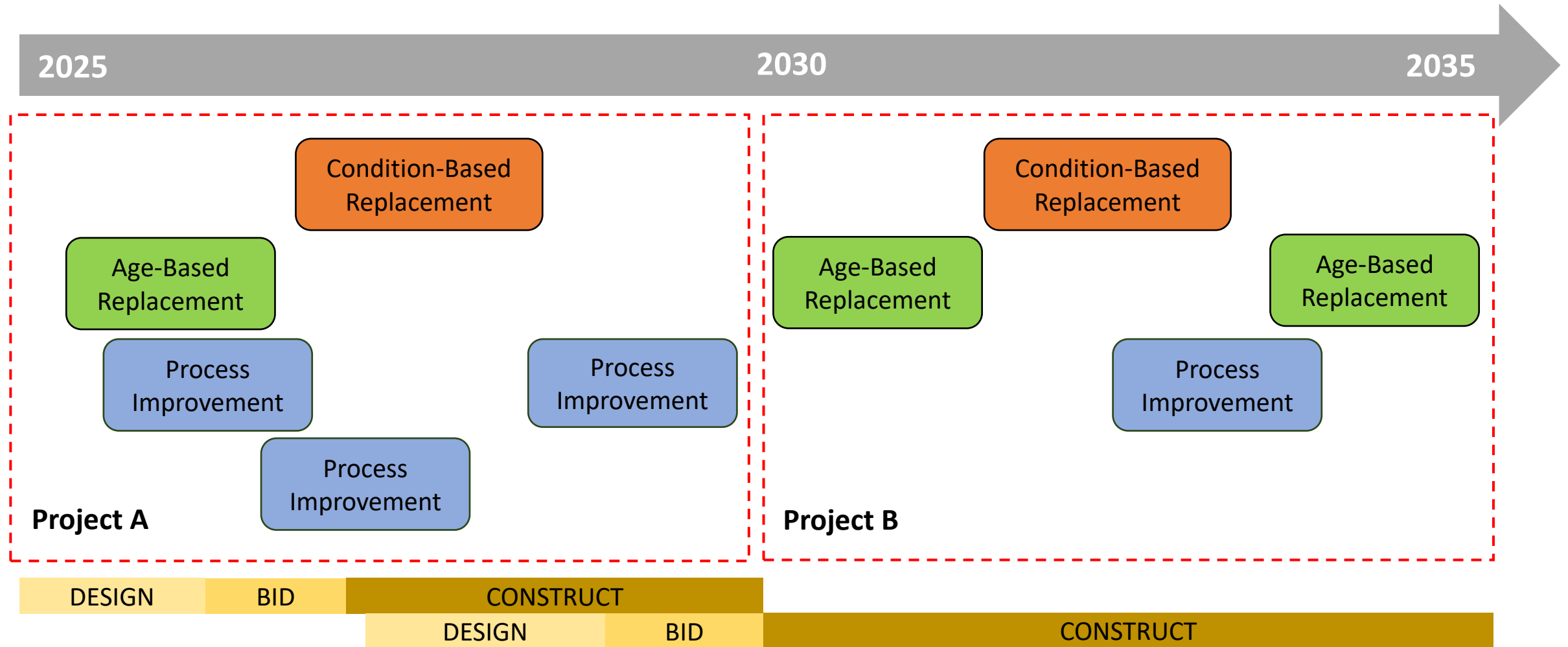
Future:

1. Preliminary Design (10%)
2. Class 4 Cost Estimates
 - A. -30% to +50%
 - B. Will include associated small assets

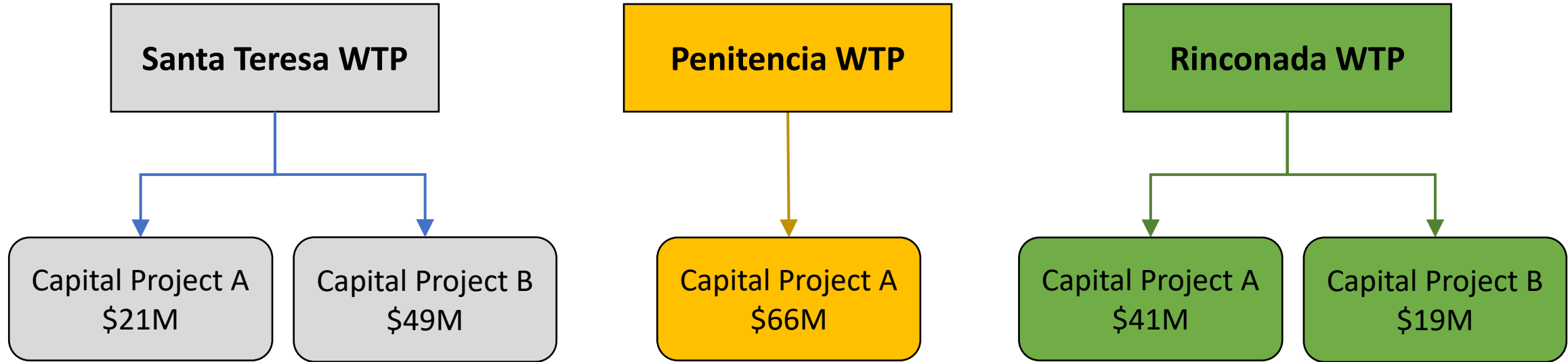
Project Consolidation Goals

1. Consolidate recommended alternatives into \$50M - \$100M Projects
2. Leverage efficiencies so projects can be constructed quickly
 - A. Project location
 - B. Construction trades involved
 - C. Shutdown requirements & impacts to operations and service
 - D. Common equipment suppliers across multiple plants
3. Align project timing with replacement forecasts

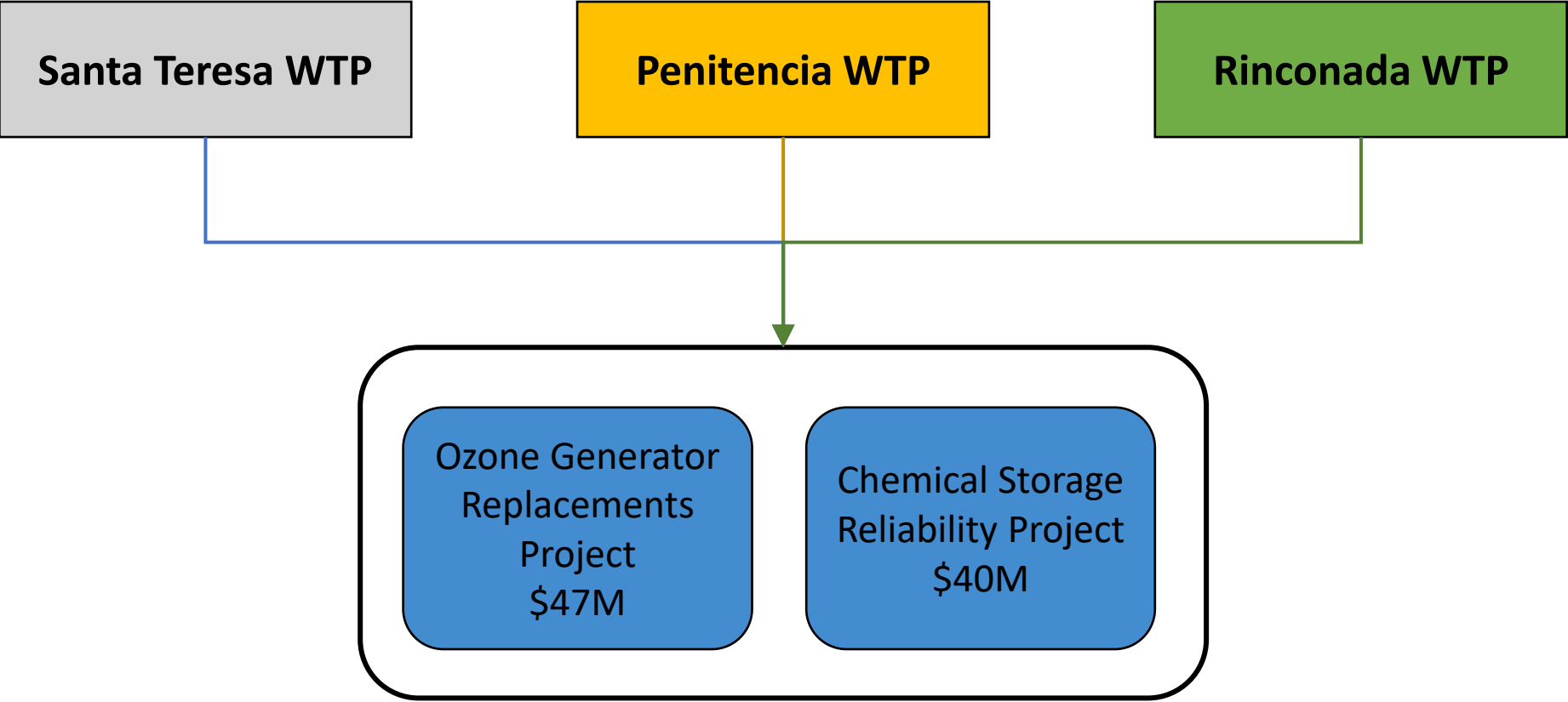
Proposed Projects Overview: Project Implementation



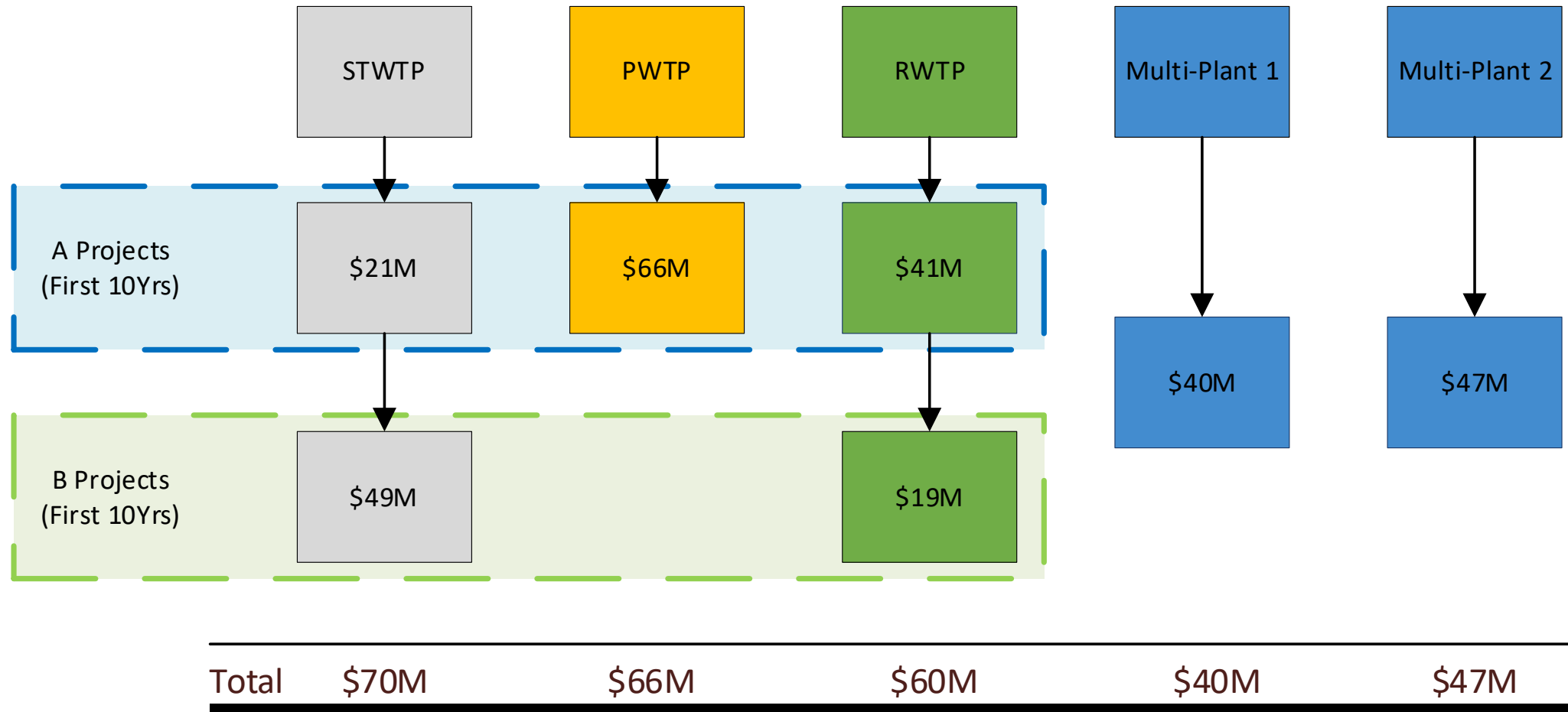
Proposed Projects Overview: Plant Projects



Proposed Projects Overview: Multi-Plant Projects



Initial Proposed Capital Projects (FY25-34)



\$283M Total in First 10 Years

\$325.5M in CIP Placeholders for Infrastructure Master Plan Implementation Projects

Public meeting - messaging & main topics

1. Valley Water overview
2. Purpose, need, and benefits of master planning
3. Goals and timeline for master plan
4. Water treatment plant challenges
5. Overview of projects in master plan
6. How you can provide feedback



Ongoing Activities:

1. Finalize conceptual designs, cost estimates, and recommended projects in Recommended Alternatives Report

Next Steps:

1. Begin developing Planning Study Report and 10% Basis of Design
2. Begin initial activities for Programmatic EIR
3. Public Meetings in May & June

Additional Details

STWTP Preliminary Project A



20 total solutions

5 biggest solutions:

Solution	Cost
Bromate Control and Backup CT Improvements	\$4.3M
New Sample Lines for Graystone and Snell Pipelines	\$3.2M
MCC and Motor Age-Based Replacements	\$2.1M
Tepid Water System for ESEWs	\$1.4M
Carbon System Replacements	\$1.3M

STWTP Preliminary Project B



21 total solutions

5 biggest solutions:

Solution	Cost
Electrical Improvements (Double-Ended Switchboards)	\$9.2M
Washwater Recovery Floc Mixer Condition-Based Replacement	\$6.1M
Addition of Sulfuric Acid for Enhanced Coagulation	\$4.0M
Graystone Pump Station Motor and VFDs Age-Based Replacements	\$2.9M
Electrical Improvements to Graystone Pump Station	\$2.6M

PWTP Preliminary Project A



27 total solutions

5 biggest solutions:

Solution	Cost
Backwash System Improvements	\$15M
Filtered/Finished Water Piping Condition-Based Replacement	\$9.1M
Electrical Age-Based Replacements	\$7.6M
Filter System Control Panel Improvements	\$3.0M
PAC System Improvements	\$2.9M

RWTP Preliminary Project A



10 total solutions

5 biggest solutions :

Solution	Cost
Rinconada Reservoir Roof Condition-Based Replacement	\$29M
Electrical Age-based Replacements	\$3.2M
Power Supplies Age-Based Replacements	\$2.1M
Lighting and Control Panel Age-Based Replacements	\$2.1M
Tepid Water System for ESEWs	\$1.4M

RWTP Preliminary Project B



19 total solutions
5 biggest solutions:

Solution	Cost
Permanganate IC and MAPS Electrical Age-Based Replacements	\$2.5M
Treated Water Booster Pumps Age-Based Replacements	\$2.2M
Non-Ionic Polymer Piping Improvements	\$1.8M
Clearwell Booster Valves Condition-Based Replacements	\$1.7M
Cat Poly Local Control Panel Age-Based Replacement	\$1.3M

Preliminary Multi-Plant Project 1

1. Package C1: Chemical Storage Reliability

2. Project Cost: \$40M

3. Benefits:

- A. Meeting objective of 30 days storage at max flow, average dose
- B. Consistency in equipment manufacturers

Solution	Cost
RWTP Alum Storage Improvements	\$18M
STWTP Chemical Storage Reliability	\$9.2M
PWTP Ammonia System Improvements	\$6.0M
PWTP Phosphoric Acid System Improvements	\$3.2M
RWTP Cat Poly Storage Improvements	\$1.8M
PWTP Non-Ionic Poly System Improvements	\$0.9M
STWTP Cat Poly System Improvements	\$0.5M

Preliminary Multi-Plant Project 2

1. Package C2: Ozone Generator Replacements

2. Project Cost: \$47M

3. Benefits:

- A. Consistency in manufacturers

Solution	Cost
STWTP Replacements: Ozone Generator Shells, Power Supply Units, Control Panel	\$31M
PWTP Replacements: Ozone Generator Shells, Power Supply Units	\$16M



Santa Clara Valley Water District

File No.: 24-0294

Agenda Date: 4/22/2024

Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM Capital Improvement Program Committee

Government Code § 84308 Applies: Yes No
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Review 2024 Capital Improvement Program Committee Work Plan.

RECOMMENDATION:

Review the 2024 Capital Improvement Program Committee Work Plan and make adjustments as necessary.

SUMMARY:

Work Plans are created and implemented by all Board Committees to increase Committee efficiency, provide increased public notice of intended Committee discussions, and enable improved follow-up by staff. Work Plans are dynamic documents managed by Committee Chairs and are subject to change. Committee Work Plans also serve to assist in preparing an Annual Committee Accomplishments Reports.

Discussion of topics as stated in the Plan have been described based on information from the following sources:

- Items referred to the Committee by the Board;
- Items requested by the Committee to be brought back by staff;
- Items scheduled for presentation to the full Board of Directors and
- Items identified by staff.

Regular monthly meetings are scheduled to occur at 11:00 a.m., on the third Monday of each month, or at the call of the Committee Chair.

Establishing a work plan and meeting schedule is necessary to provide staff with a basis for meeting planning, logistics coordination, and agenda item preparation. Attachment 1 is the 2024 CIP committee work plan for review and comments by the CIP committee.

ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:

There are no environmental justice and equity impacts associated with this item. This action is unlikely to or will not result in human health or environmental effects.

ATTACHMENTS:

Attachment 1: 2024 CIP Committee Work Plan

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

CIP Committee 2024 Work Plan

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Capital Project Monitoring												
Feasibility/Planning	X			X			X			X		
Design/Permitting		X			X			X			X	
Construction	X		X			X			X			X
Projects in Mitigation/Plant Establishment						X						
CIP Implementation												
Construction Contractor Compliance		X										
Headquarters Operations Building Planning		X										
Construction Activities Carbon Footprint								X				
Master Plan/Implementation Projects				X	X			X				
Almaden Valley Pipeline Replacement												
Dam Safety Program Strategy												
RWTP Reliability Improvement Project Neighborhood Outreach												
CIP Development												
Final CIP Performance Audit									X			
Water Supply Capital Workshop									X			
CIP Planning Process												
• Annual CIP Process and Integrated Financial Planning Schedule and Review of Initially Validated and Unfunded Projects										X		
Preliminary CIP Review												X
• Review Significant Project Plan Updates												X
Standing Items												
Anderson Dam Tunnel Project Contingency and Change Order Monitoring	X	X	X	X	X	X	X	X	X	X	X	X
Upcoming Consultant Agreement Amendments	X	X	X	X	X	X	X	X	X	X	X	X
Workplan	X	X	X	X	X	X	X	X	X	X	X	X
Minutes	X	X	X	X	X	X	X	X	X	X	X	X
Annual Election of Committee Officer				X								

THIS PAGE INTENTIONALLY LEFT BLANK