



(D) 4. Annual CIP Status Report January – December 2023

Transportation and Environment Committee
March 4, 2024

*Presenters: Kerrie Romanow, Director, ESD
Mariana Chavez-Vazquez, RWF General Manager, ESD
Kapil Verma, Deputy Director, ESD CIP
David Ohlson, Principal Engineer, ESD CIP*



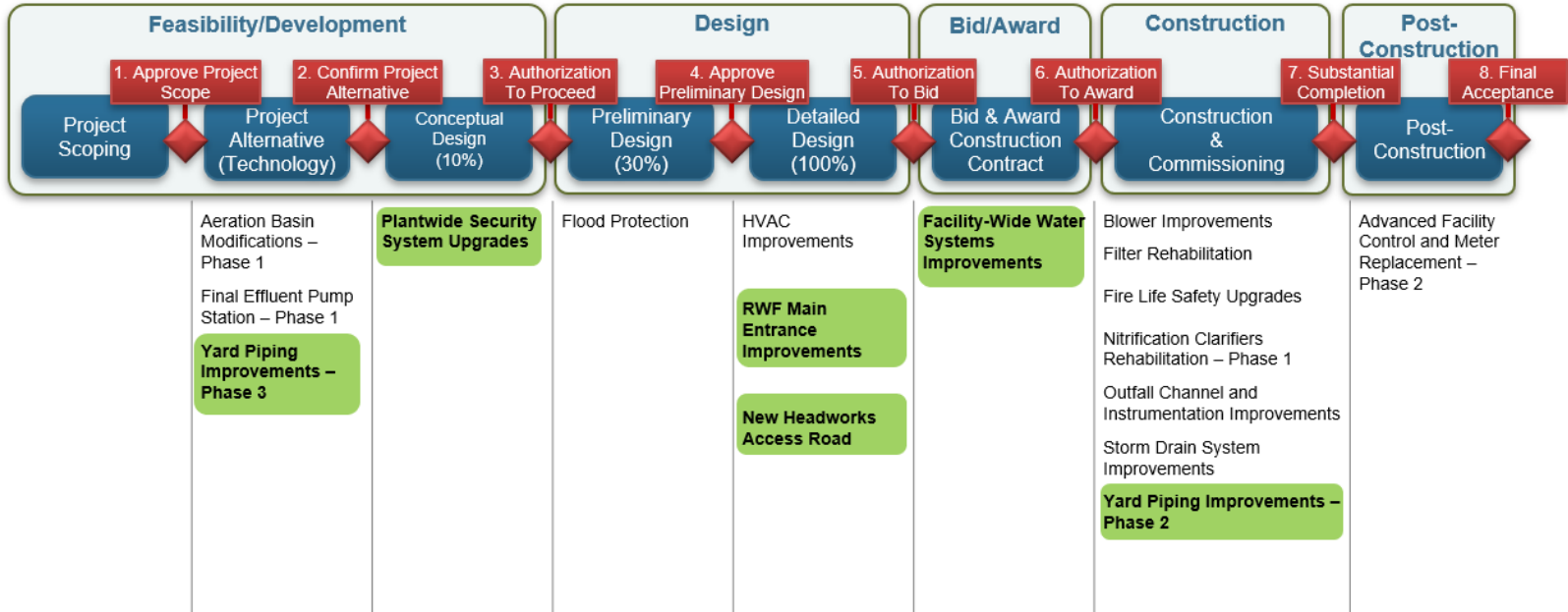
**San José-
Santa Clara
Regional
Wastewater
Facility**

Program History

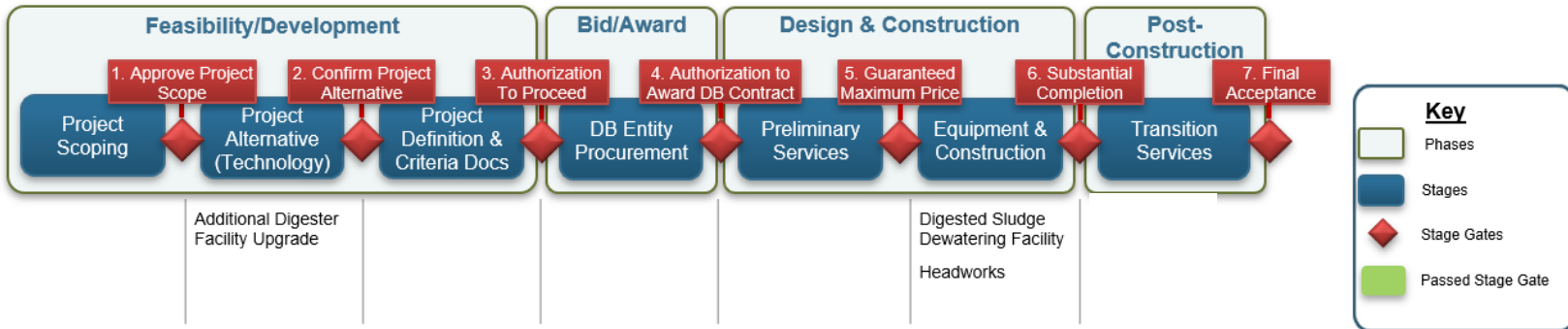
- Plant Master Plan adopted in 2013
 - More than 100 capital improvement projects totaling over \$2.1 billion to be implemented at the RWF over 30 years
- Accomplishments
 - 26 projects completed; \$800 million committed
 - Numerous awards and recognition
- FY 2024-2028 Adopted CIP - \$816 million for construction
- FY 2023-2024 - \$213 million allocated

Program at a Glance

Design-Bid-Build Active Projects



Progressive Design-Build Active Projects



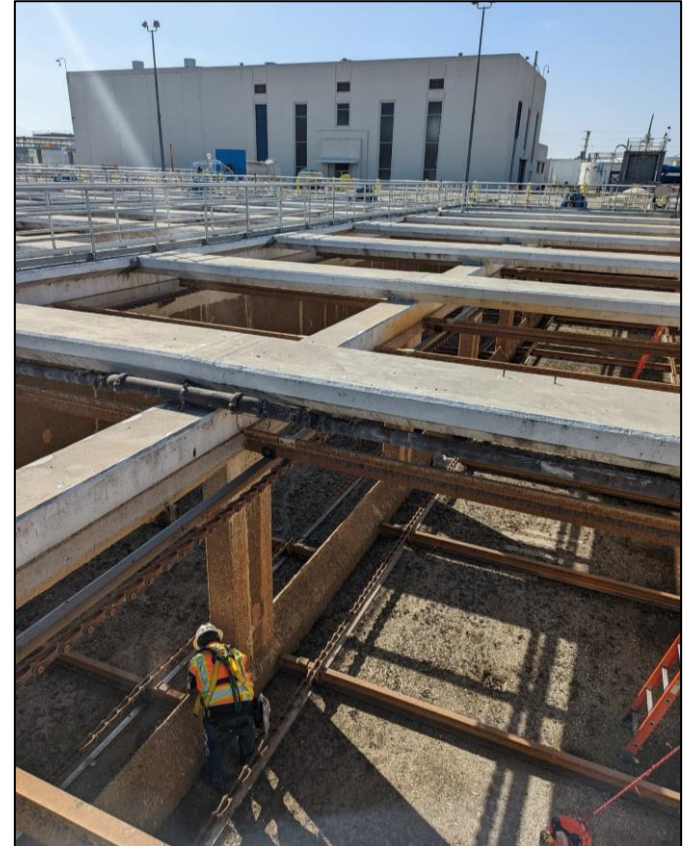
Five Projects in Feasibility/Development

Project Alternatives

- Additional Digester Facility Upgrade
- Aeration Basin Modifications – Phase 1
- Final Effluent Pump Station – Phase 1
- Yard Piping Improvements – Phase 3

Conceptual Design

- Plantwide Security System Upgrades



Contractor working in the West Primary Clarifier as part of the Aeration Basin Modifications – Phase 1 Project

Five Projects in Design and Bid/Award

Preliminary Design

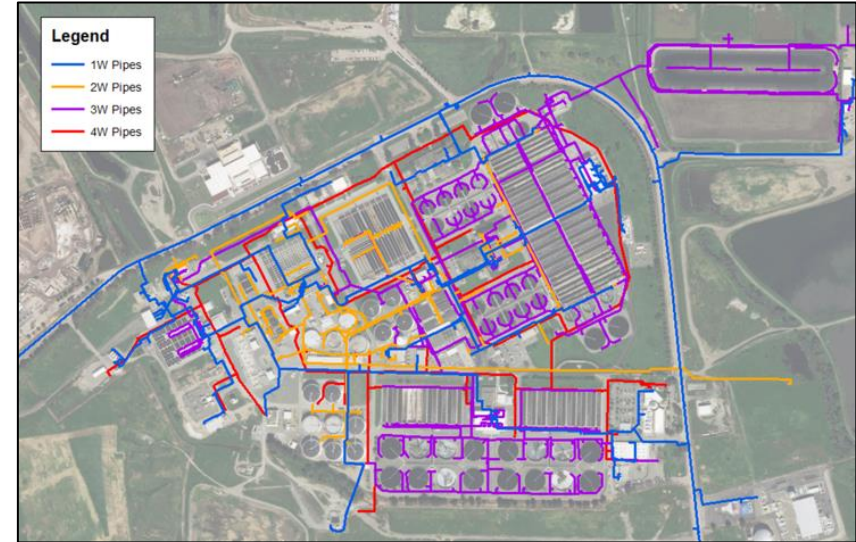
- Flood Protection

Detailed Design

- HVAC Improvements
- New Headworks Access Road
- RWF Main Entrance Improvements

Bid & Award

- Facility-Wide Water Systems Improvements



Existing water systems to be modernized through Facility-Wide Water System Improvements



Preferred alternative for the new RWF main entrance

Ten Projects in Construction

- Advanced Facility Control and Meter Replacement – Phase 2 (\$7.0m) - **Completed**
- Blower Improvements (\$29.5m)
- Digested Sludge Dewatering Facility (\$131.2m)
- Filter Rehabilitation (\$33.3m)
- Fire Life Safety Upgrades (\$2.8m)
- Headworks (\$126.9m) - **Completed**
- Nitrification Clarifiers Rehabilitation – Phase 1 (\$26.2m)
- Outfall Channel and Instrumentation Improvements (\$4.3m)
- Storm Drain System Improvements (\$6.3m)
- Yard Piping Improvements – Phase 2 (\$16.9m)



- 1 Advanced Facility Control and Meter Replacement – Phase 2
- 2 Blower Improvements
- 3 Digested Sludge Dewatering Facility
- 4 Filter Rehabilitation
- 5 Fire Life Safety Upgrades
- 6 Headwork
- 7 Nitrification Clarifiers Rehabilitation – Phase 1
- 8 Outfall Channel and Instrumentation Improvements
- 9 Storm Drain System Improvements
- 10 Yard Piping Improvements – Phase 2



Ten Projects In Construction

Total Base Construction Value: \$437m



Headworks Project

Construction Value: \$126.9m
Achieved Beneficial Use: December 2023

Headworks

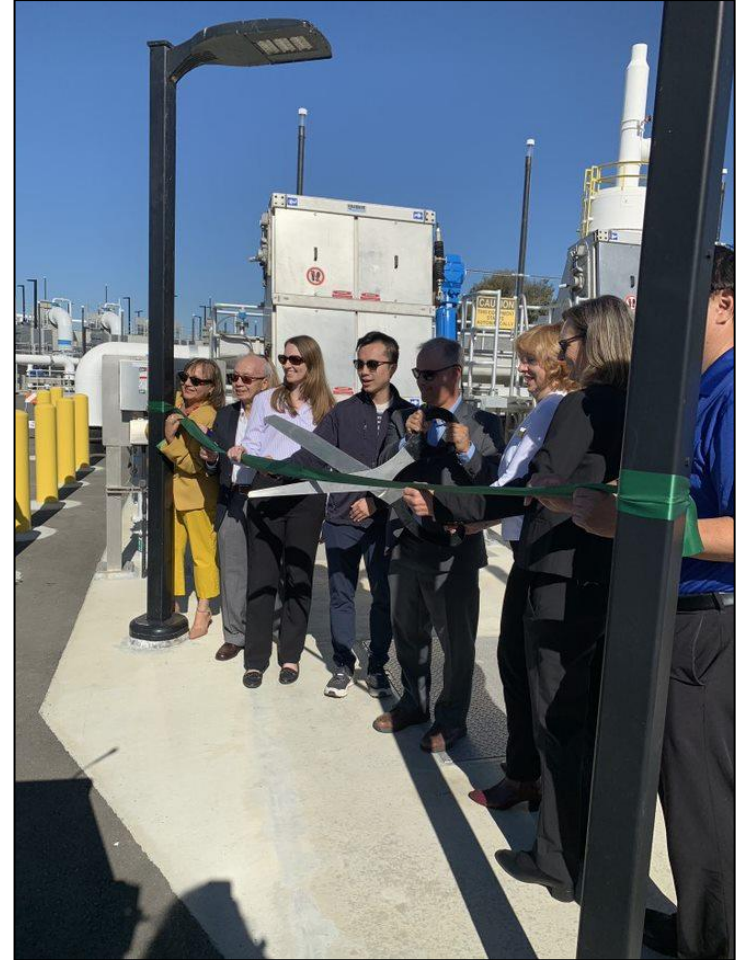


July 2020 – October 2023 Construction Progress

Headworks



October 12, 2023 Ribbon Cutting Ceremony



Digested Sludge Dewatering Facility



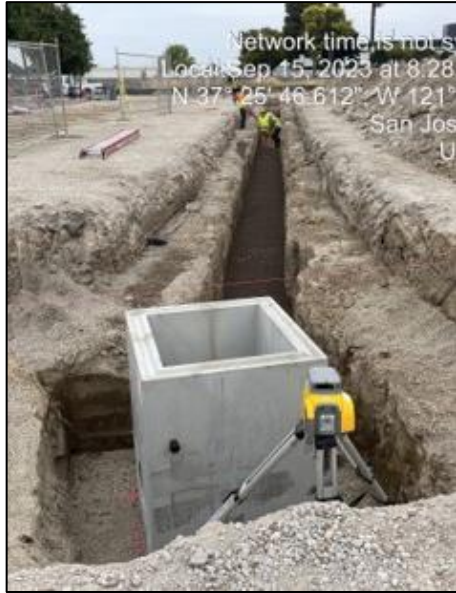
Construction Value: \$131.2m
Estimated Beneficial Use: Fall 2025

Digested Sludge Dewatering Facility



Newly-laid underground pipes

Digested Sludge Dewatering Facility



*Storm Drain Trench
Excavation and Precast
Manhole*



Tank Construction



Wall Forms



*Dewatering Building
First Deck Section
Placement*

Expected Activities through December 2024

- Reach Substantial Completion on seven projects –
 - Blower Improvements, Filter Rehabilitation, Fire Life Safety Upgrades, Nitrification Clarifiers Rehabilitation Phase 1, Outfall Channel and Instrumentation Improvements, Storm Drain Improvements, and Yard Piping Improvements Phase 2
- Advertise construction contracts for New Headworks Access Road and RWF Main Entrance Improvements projects
- Obtain Council approval to award construction contracts for Facility Wide Water Systems Improvements, New Headworks Access Road, and RWF Main Entrance Improvements