



## **Progress Update**

**City Council Study Session  
February 19, 2019**



# Agenda

- Market Impacts and Mitigation Efforts
- Project Progress, Cost Reduction Efforts, Next Steps
  - *WWTP Upgrade and Expansion Project*
  - *Underground Flow Equalization System Project*
  - *Collection System Capacity Improvements*
- Inflow & Infiltration Reduction Efforts
- Financing Strategy Update
- Public Outreach
- Questions and Feedback



# Maintaining the Clean Water Program Goals



**Replace** aging infrastructure and facilities



**Build** wet weather sewer system capacity assurance to prevent overflows



**Meet** current and future regulatory requirements



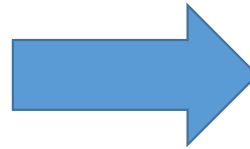
**Align** with the City of San Mateo and Foster City's sustainability goals



# Market Impacts and Mitigation Efforts

## Market Conditions Impacting Cost

- Earthwork
- Concrete
- Electrical
- Labor

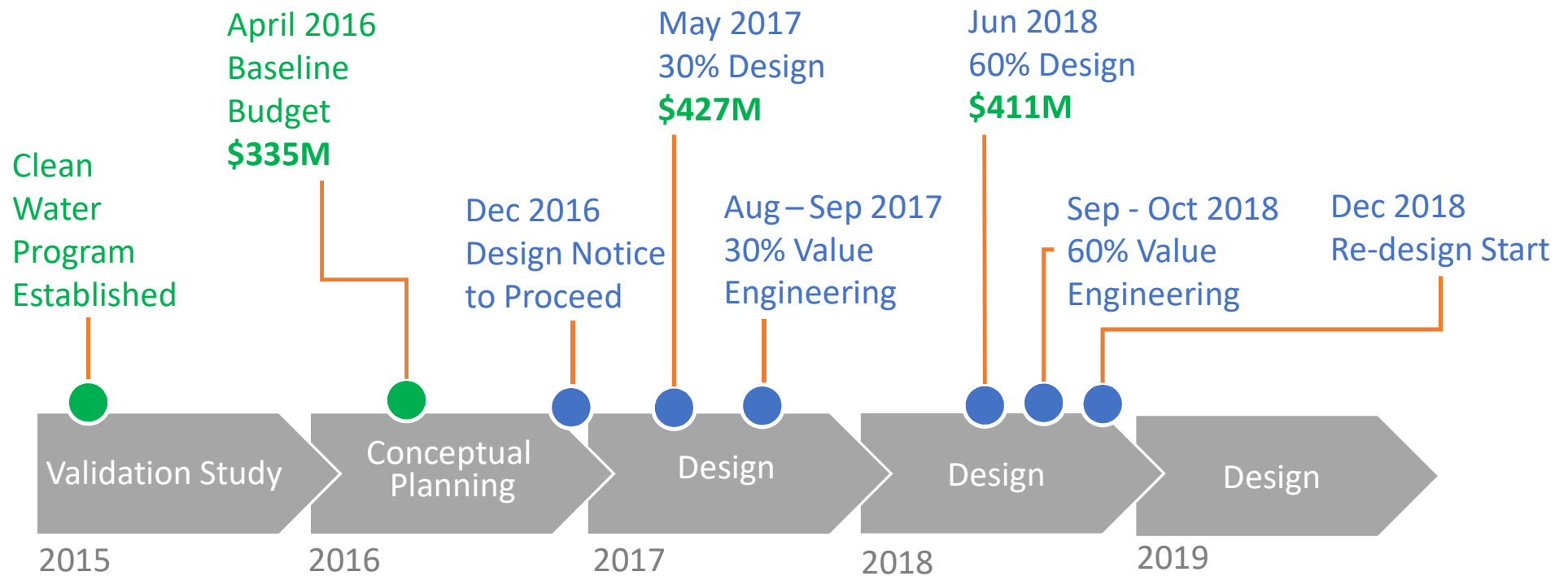


## Cost Mitigation Efforts

- Value engineering
- Scope reduction/  
Re-design
- Re-prioritization of  
projects



# Wastewater Treatment Plant (WWTP) Upgrade & Expansion Project Progress & Budget Timeline





# WWTP Site Plan at 60% Design (June 2018)

Process Facility

Administration Building

# WWTP Conceptual Rendering



Existing  
WWTP

Process Facility

Administration Building

J Hart Clinton Dr / 3rd Ave

SF Bay



# WWTP Site Plan with 60% Value Engineering (Project Objectives Maintained)

Design revisions for simplified constructability

Relocated Administration Building and reduced building size

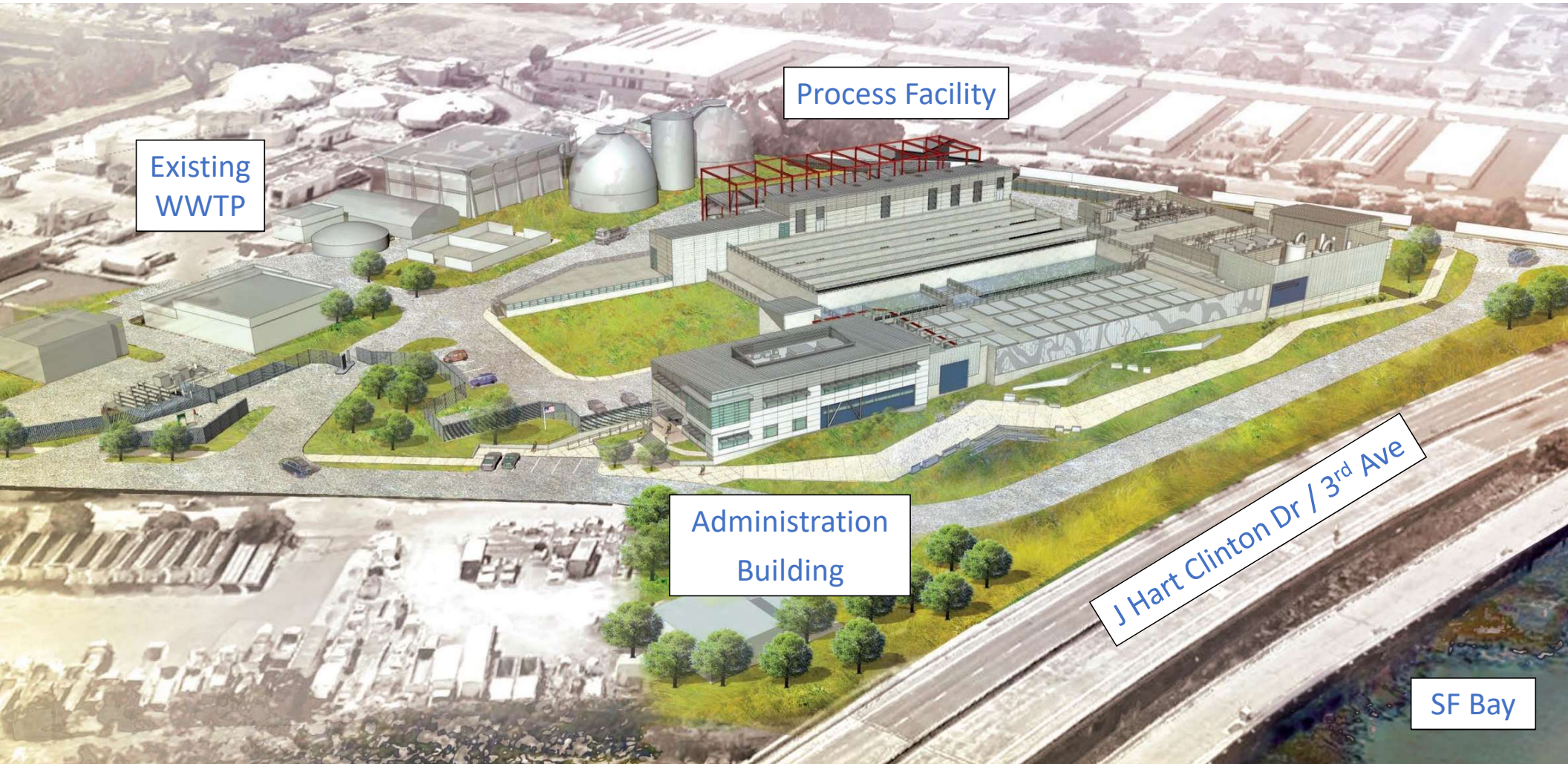
Reduced overall facility footprint reducing costs for excavation, pile driving, concrete and piping



**Target Construction Cost < \$400M**



# WWTP – 60% Value Engineering Conceptual Rendering



Existing  
WWTP

Process Facility

Administration  
Building

J Hart Clinton Dr / 3<sup>rd</sup> Ave

SF Bay

## WWTP Next Steps - Construction

- Construction will be delivered in three phases or “Guaranteed Maximum Price” (GMP) packages:
  - *Phase 1 / GMP-1: excavation and site preparation*
  - *Phase 2 / GMP-2: foundation*
  - *Phase 3 / GMP-3: WWTP facilities*
- City Council Award for each GMP construction package planned for:
  - *GMP-1: May 2019*
  - *GMP-2: Nov 2019*
  - *GMP-3: June 2020*

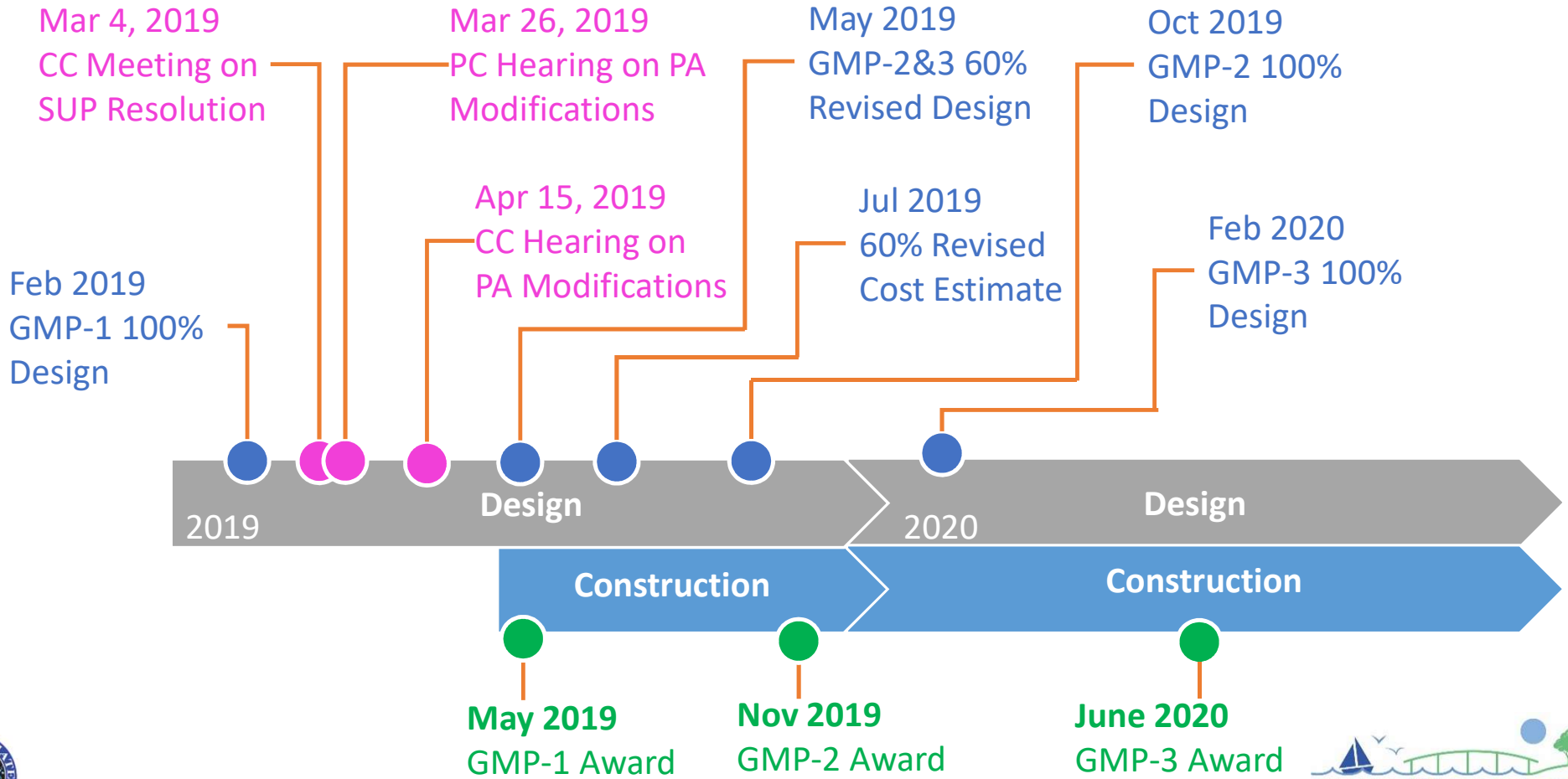


## WWTP Next Steps - Special Use Permit

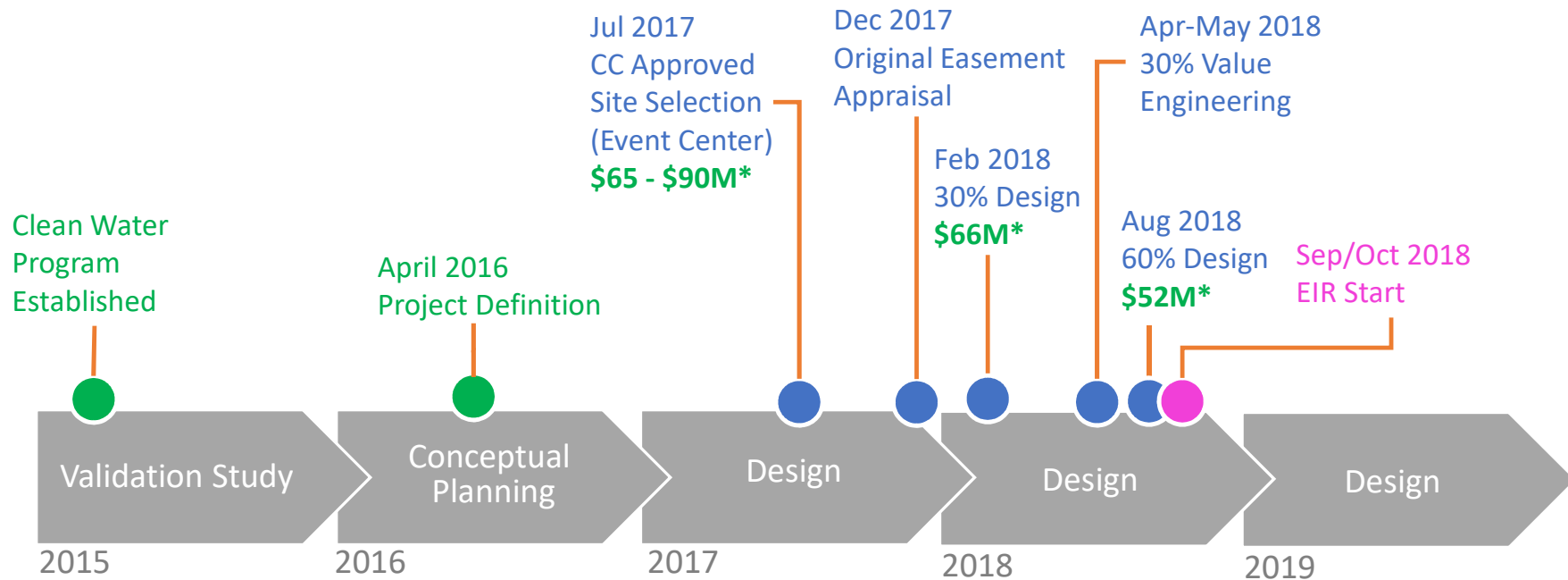
- Anticipated construction contract award for GMP-1 is **May 6, 2019**.
  - *Critical path to meet regulatory compliance.*
  - *Meet WIFIA application schedule of **August 2019** to secure the loan.*
- Update Planning Application (PA) with revised plans to maintain the critical path project schedule:
  - **March 4, 2019**: *City Council Meeting to adopt a resolution exempting the project from the SUP Pre-Application requirements.*
  - **March 26, 2019**: *Planning Commission Meeting to approve WWTP PA modifications.*
  - **April 15, 2019**: *City Council Meeting to approve WWTP PA modifications.*



# WWTP – Next Steps Timeline



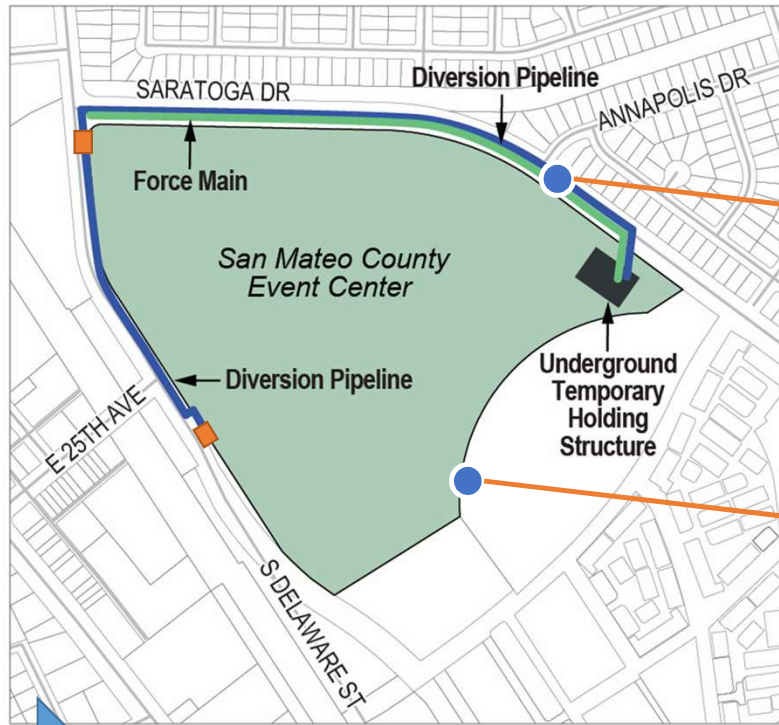
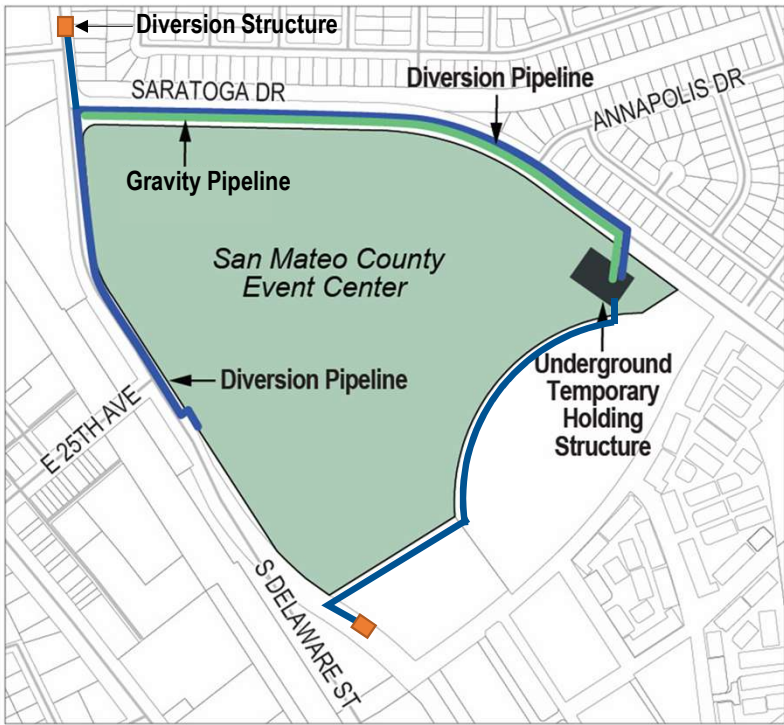
# Underground Flow Equalization System (UFES) Project Progress & Budget Timeline



\* Including easement estimate/appraisal



# UFES – Conceptual Site Plan



Convert Gravity Pipeline to Force Main

Eliminate South Diversion Pipeline and Required Easement

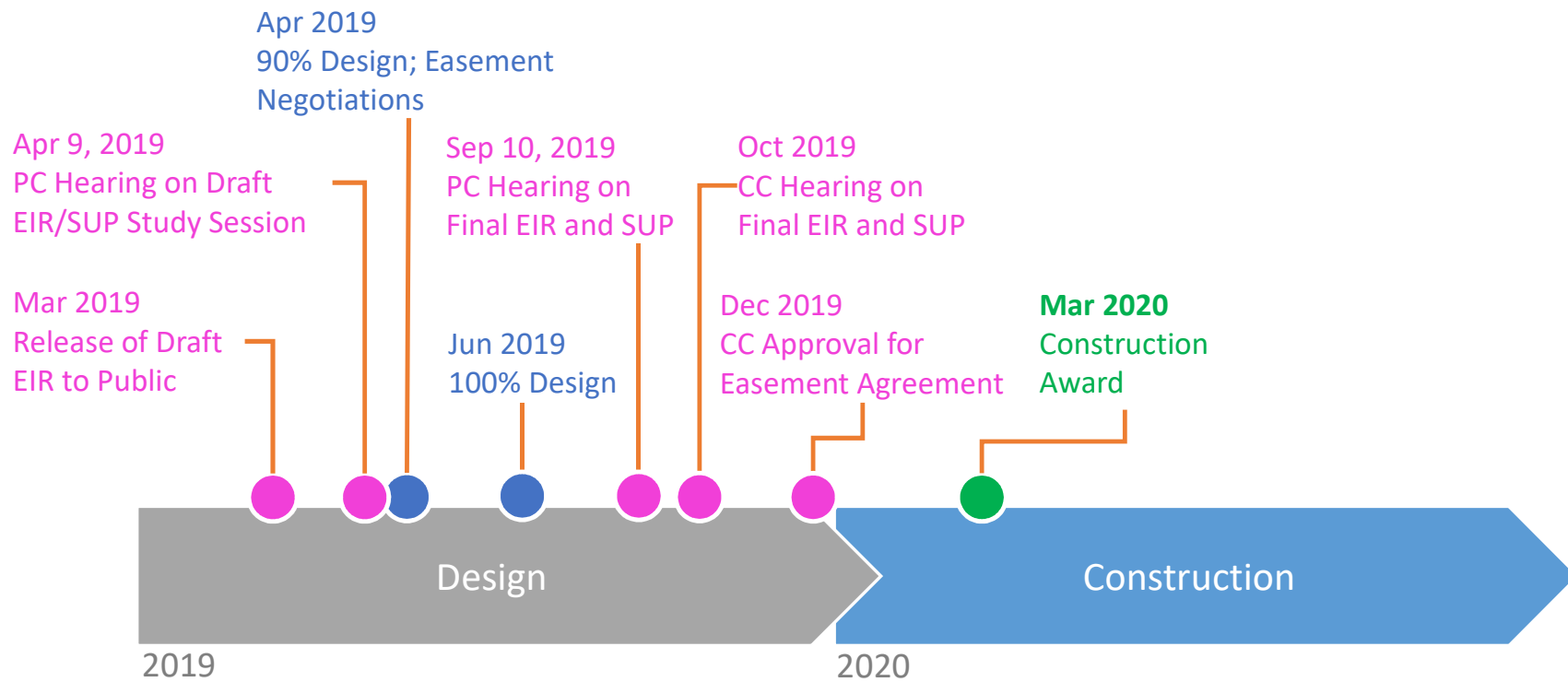
Original Diversion Pipelines

30% Value Engineering

Revised Diversion Pipelines



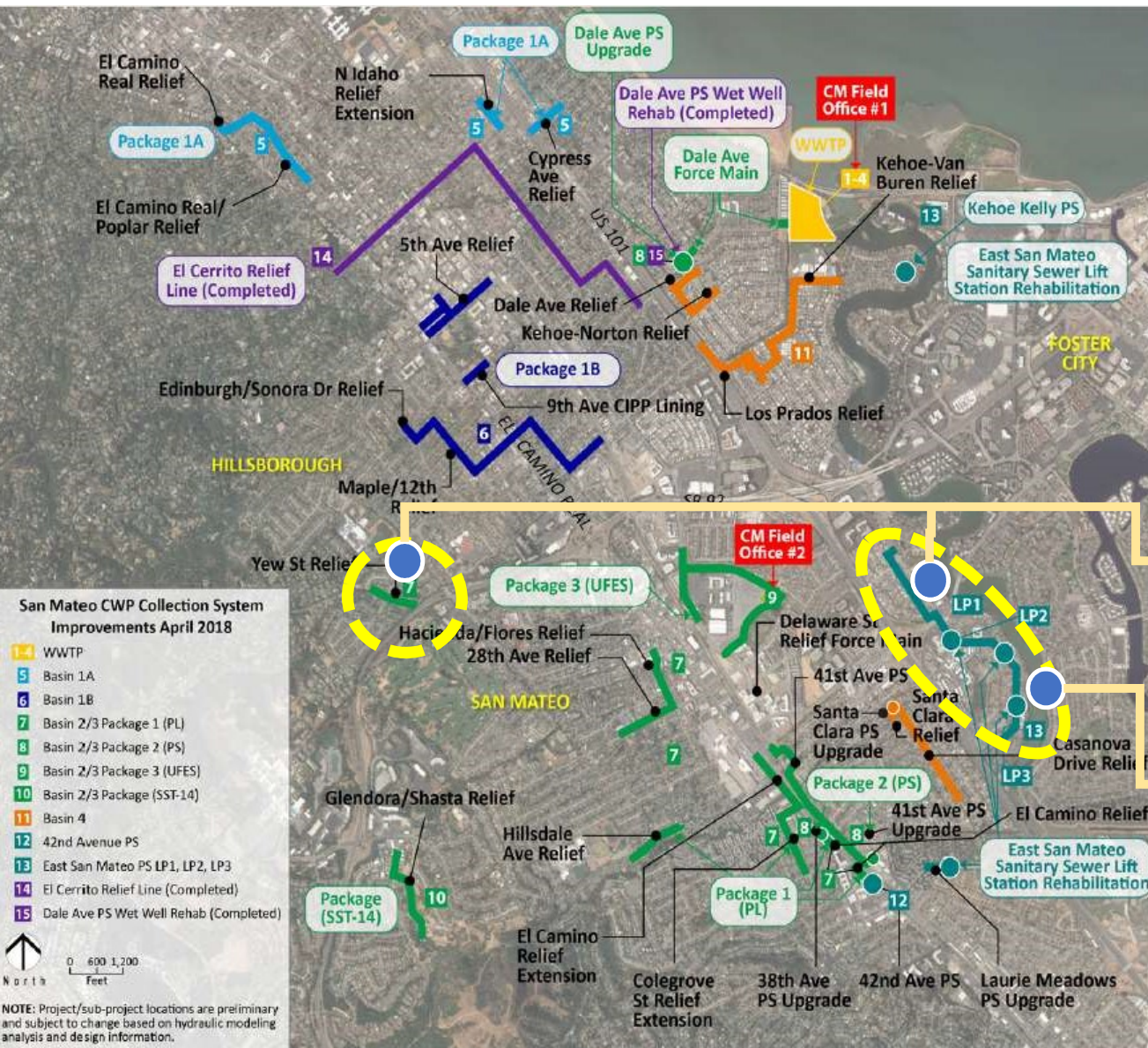
# UFES – Next Steps Timeline



# Collection System Capacity Improvements Alternatives Analysis

Pipe Capacity Improvements:  
 Currently 10.2 miles  
 (originally 11.3 miles)  
 reduction of 1.4 miles (12%)

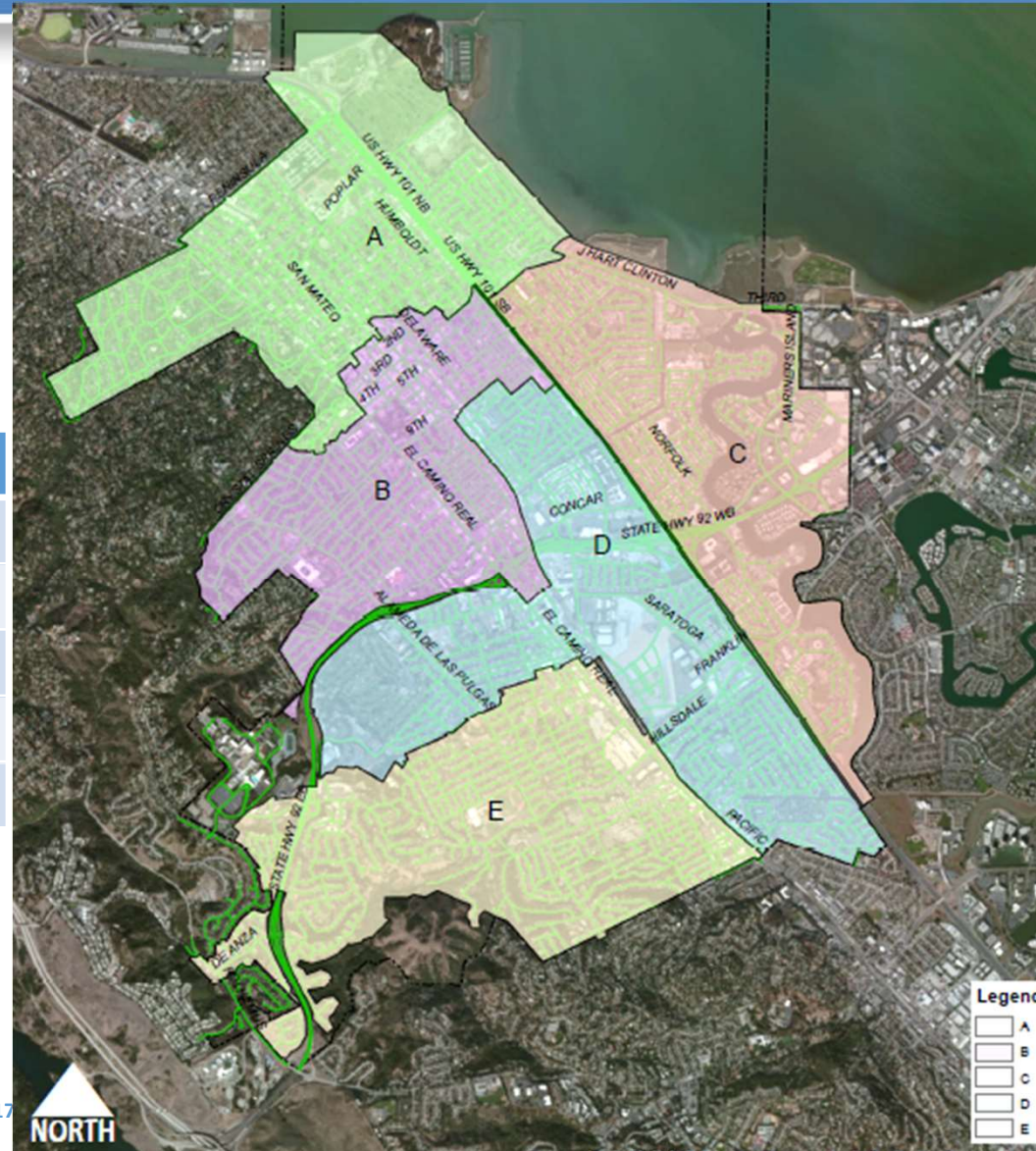
Pump Station Upgrades:  
 Currently 7 (originally 11)





# Collection System I/I Reduction Efforts Annual Rehabilitation

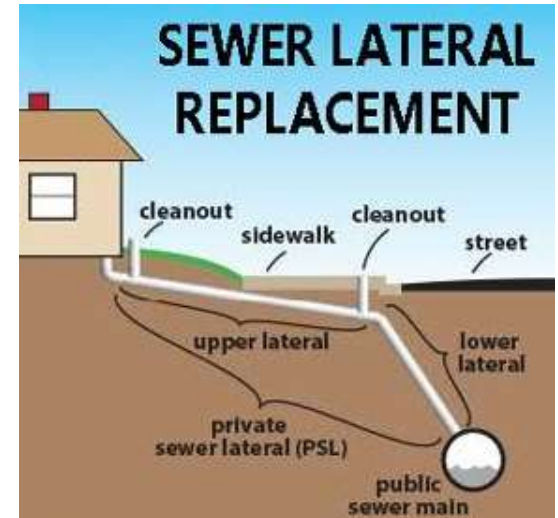
BASIN	INSPECTIONS	DESIGN	CONSTRUCTION
Basin A	2019	2020	2021
Basin B	2014	2015/16	2017/18
Basin C	2015	2017/18	2019
Basin D	2016	2017/18	2019
Basin E	2020	2021	2022



# Collection System I/I Reduction Efforts

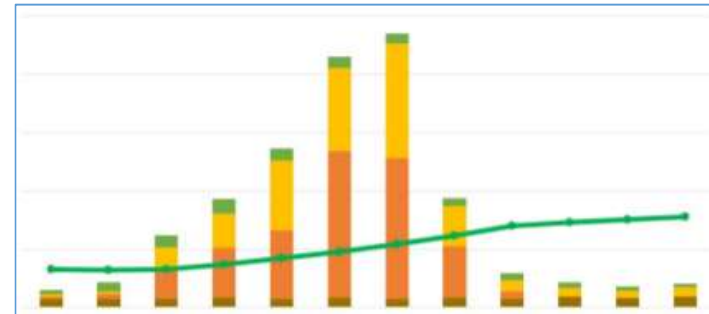
## Sewer Laterals

- Private Sewer Lateral Cost Share Program
  - \$750,000 budget for FY 2018/2019
  - Applications Received: 186
  - Laterals Replacement Reimbursements: 112
- Sewer Lateral Ordinance Revisions
  - Sustainability & Infrastructure Commission feedback received (12/12/18)
  - Additional coordination between City Departments
  - City Council Study Session targeted for April/May 2019
  - Planning additional outreach



# Financing Strategy Update

- Sewer rates
- USEPA Water Infrastructure Finance and Innovation Act (WIFIA) loan approved for up to \$277 million
  - *saves approximately \$100 million in interest costs*
- Bonds
- Other Pursuits
  - *Grants*
  - *State Revolving Fund*



## Public Outreach Channels

- *Community/neighborhood meetings*
- *Regular updates to City Council, Commissions*
- *Mailings*
- *E-newsletters*
- *CWP & City website*
- *City's social media channels (Facebook, NextDoor, etc.)*
- *Media outreach*
- *Construction notices and signage*



# Maintaining the Clean Water Program Goals



✓ **Replace** aging infrastructure and facilities



✓ **Build** wet weather sewer system capacity assurance to prevent overflows



✓ **Meet** current and future regulatory requirements



✓ **Align** with the City of San Mateo and Foster City's sustainability goals

- CWP staff is focusing on cost mitigation efforts
- Ongoing efforts because market conditions continue to evolve



# Questions & Feedback



[www.CleanWaterProgramSanMateo.org](http://www.CleanWaterProgramSanMateo.org)

