



Valley Water

Clean Water • Healthy Environment • Flood Protection



Coyote Creek Flood Protection Project

Preferred Project Alternative

June 17th, 2020 Virtual Public Meeting



Where are we?

Phases	Components	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Planning	Problem Definition										
	Conceptual Alternatives										
	Feasible Alternatives										
	Preferred Project Alternative										
Design and Permitting	FERC Order Compliance Project										
	Post FERC Order Compliance Project										
Construction	FERC Order Compliance Project										
	Post FERC Order Compliance Project										

We are here!

Agenda Today

1. Overview of Past Meetings

2. Defining Feasible Alternatives

3. Natural Flood Protection Process

4. Preferred Project Alternative

5. Phasing of Project Elements

6. Project Timeline

7. Next Steps

Project Planning Phase

1. Conceptual
Alternatives

2. Feasible
Alternatives

3. Preferred
Project



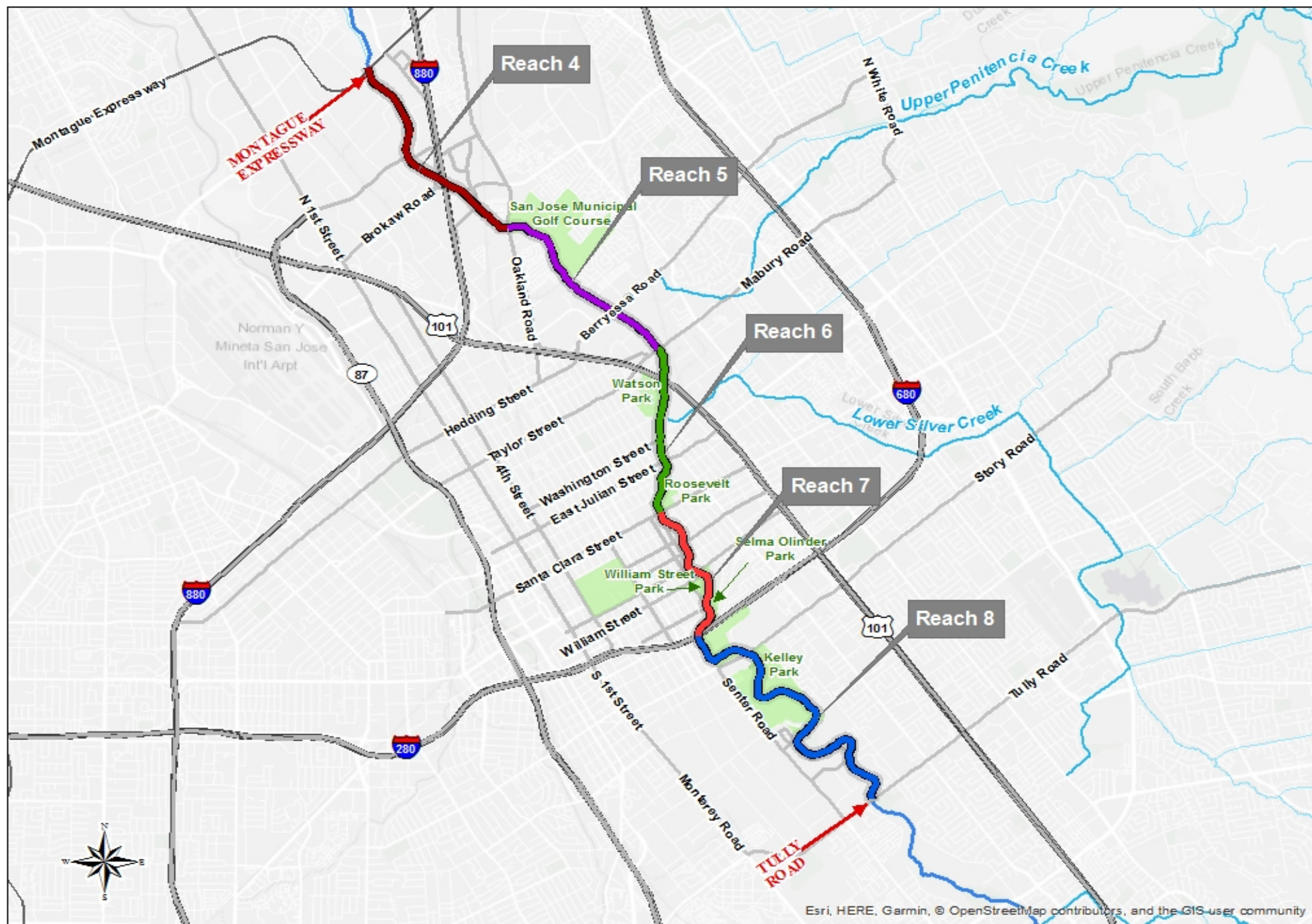
PUBLIC INPUT
Spring 2019



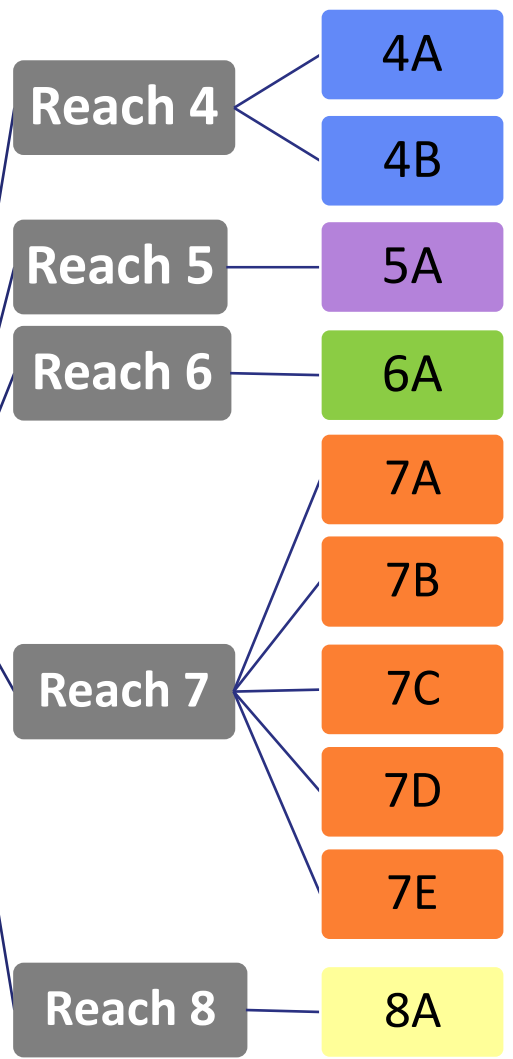
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Fall 2019



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Now

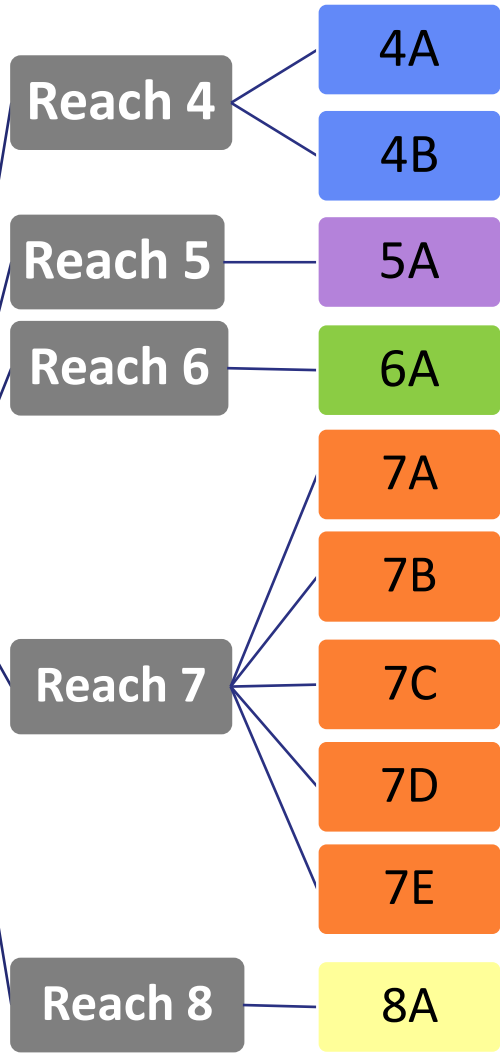


Project Scope



Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5
4A	4A	4A	4A	4A
5A	5A	5A	5A	5A
6A	6A	6A	6A	6A
7A				
	7B			
		7C		
			7D	
				7E
8A	8A	8A	8A	8A

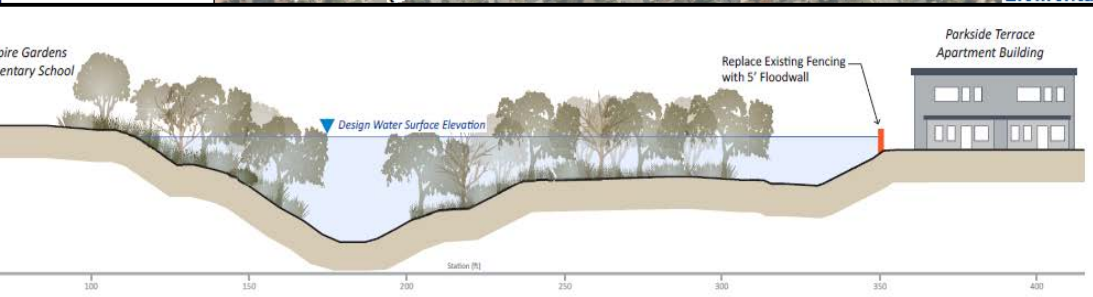
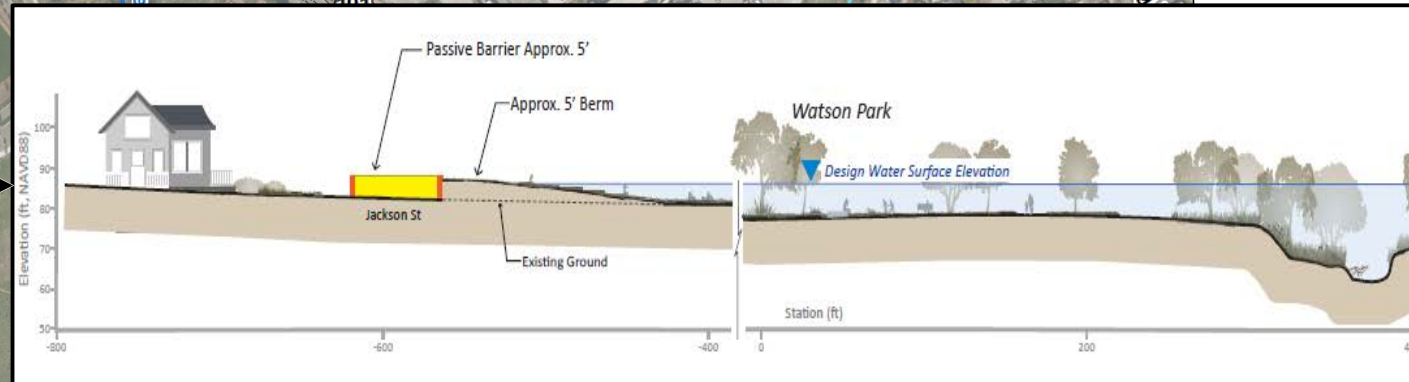
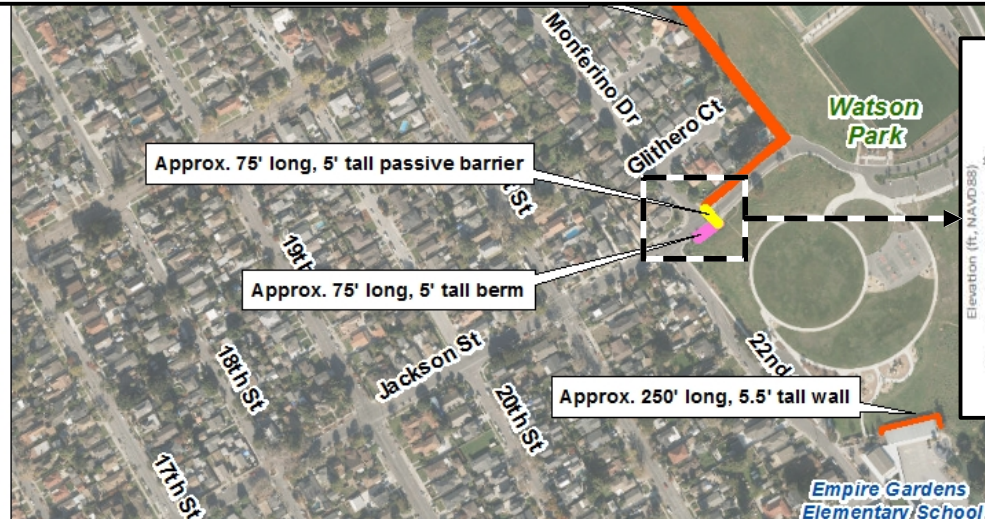
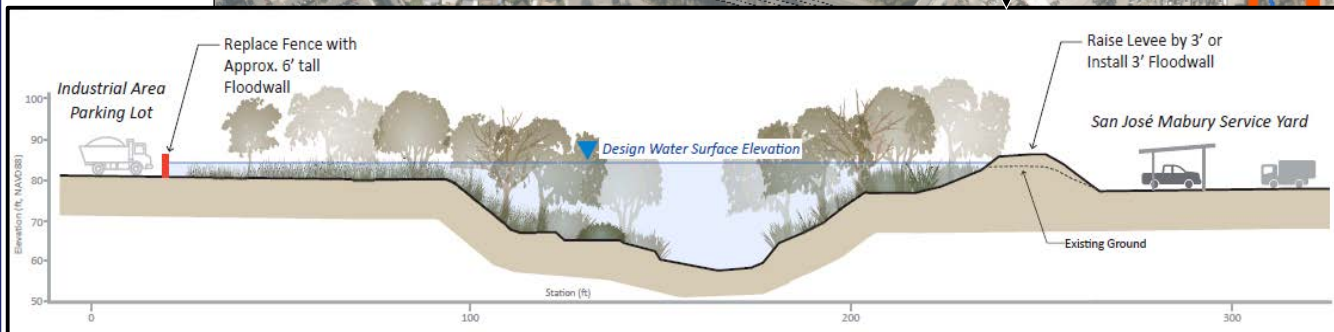
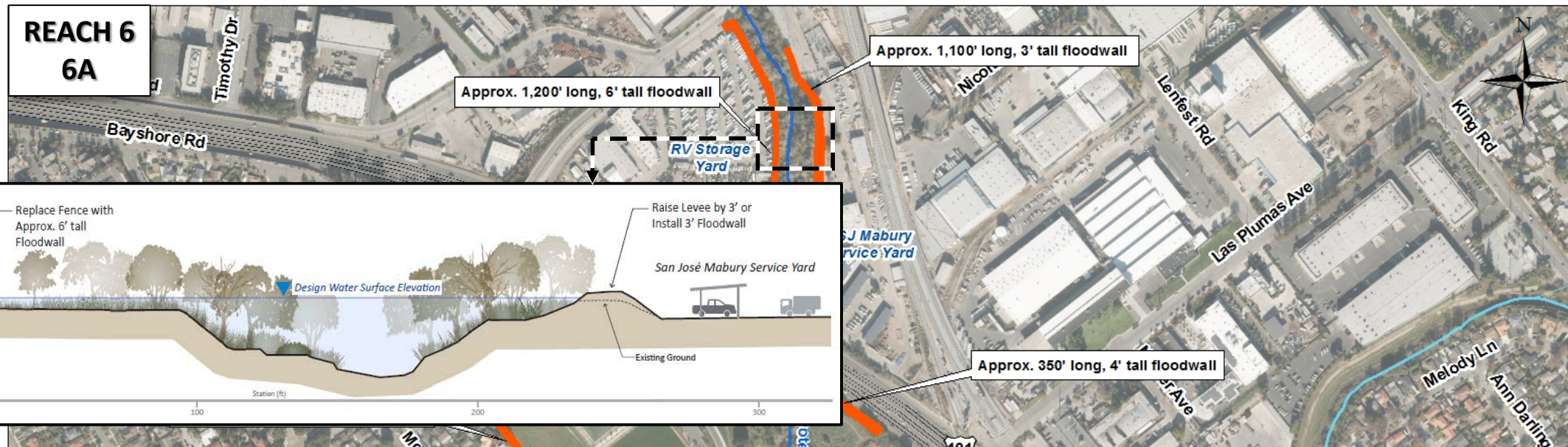
Project Scope



Alt. 6	Alt. 7	Alt. 8	Alt. 9	Alt. 10
4B	4B	4B	4B	4B
5A	5A	5A	5A	5A
6A	6A	6A	6A	6A
7A				
	7B			
		7C		
			7D	
				7E
8A	8A	8A	8A	8A

Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	Alt. 7	Alt. 8	Alt. 9	Alt. 10	Alt. 11
4A	4A	4A	4A	4A						No Project
					4B	4B	4B	4B	4B	
5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	
6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	
7A					7A					
	7B					7B				
		7C					7C			
			7D					7D		
				7E					7E	
8A	8A	8A	8A	8A	8A	8A	8A	8A	8A	

REACH 6 6A



Floodwalls



Berm



Image Source: Jean's Garden website. <https://jeansgarden.wordpress.com/2014/08/01/the-hudson-garden-a-beautiful-solution-to-a-landscape-problem/>



Passive Barrier



How do they work?

Rising floodwater creates hydrostatic pressure to lift the barrier. No manpower required.

Videos

<https://www.youtube.com/watch?v=NuDshmb4fmA&t=40s>

<https://drive.google.com/open?id=1WMpKjVzOuLm6rTuJ8LkDtZyoHRMT5V4r>

<https://www.dropbox.com/s/jahaa4gdkdhotav/My%20Movie.mp4?dl=0>

REACH 7
7A



[illegible]

-  Berm
-  Acquire
-  Floodwall
-  Passive barrier

A horizontal scale bar with alternating black and white segments. Above the bar, numerical values are marked at 0, 250, 500, 750, and 1,000. The word "Feet" is written at the right end of the bar.

Flood Mitigation Element

- Elevate
- Floodwall
- Passive barrier

**REACH 7
7C**

San Antonio St, San Fernando St, 17th St, 16th St, 15th St, 14th St, 13th St, 12th St, 11th St, 10th St, 9th St, San Salvador St, Reed St, Margaret St, Woodborough Dr, Forestdale Ave, Jeanne Ave, Dorrie Ave, Melbourne Blvd, Appian Ln, McLaughlin Ave, MacRedes Ave, Melannie Ct, Woodvale Ct, William St, Brookwood Ave, 21st St, 22nd St, 23rd St, 24th St, Peach Ct, William Ct, Sunry Ct, Sier Ln, Danube Way, Banff St, Jasper St, Lotus St, Appian Ln, McLaughlin Ave, Melannie Ct, MacRedes Ave, Dorrie Ave, Jeanne Ave, Hanoi Cir, Independence Dr.

Coyote Creek, Olinder Elementary School, Selma Olinder Park, William Street Park, Coyote Outdoor Classroom, 5.5' tall Floodwall, 3' tall Floodwall, 9' tall Floodwall, 5' tall Floodwall, 4' tall Floodwall, Elevate, Passive Barrier, Passive Barrier.

Santa Clara County, San Jose

-  Elevate
-  Floodwall
-  Passive barrier

A horizontal scale bar with alternating black and white segments. Above the bar are numerical markers at 0, 250, 500, 750, and 1,000. The word "Feet" is written at the right end of the bar.

[illegible]

-  Acquire
-  Floodwall
-  Passive barrier

A horizontal graphic scale bar with alternating black and white segments. Above the bar, numerical labels are placed at intervals: 0, 250, 500, 750, and 1,000. The word "Feet" is written at the right end of the bar.

REACH 7 7E



Elevate



Image Source: Elevation Assessment Report prepared by Planet Three Elevation for Valley Water

Elevate

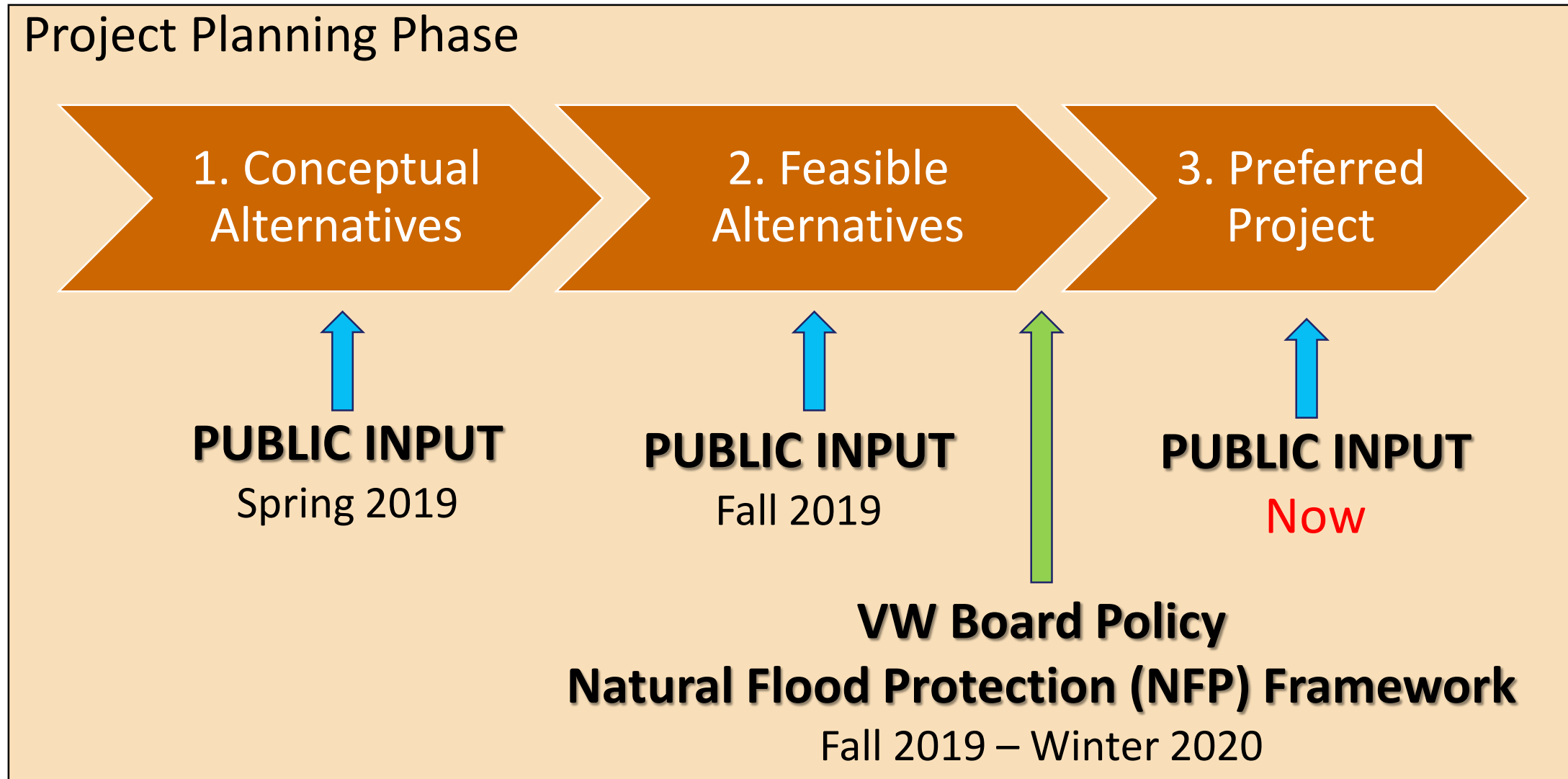


Image Source: Elevation Assessment Report prepared by Planet Three Elevation for Valley Water

Elevate



Image Source: Elevation Assessment Report prepared by Planet Three Elevation for Valley Water



NFP Framework



Consider:

- Physical
- Hydrologic
- Ecological functions & processes



Least
environmentally
damaging practicable
alternative (LEDPA)

1	2	3	4	5	6	7	8	9	10	11
4A	4A	4A	4A	4A	4B	4B	4B	4B	4B	No Project
5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	
6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	
7A	7B	7C	7D	7E	7A	7B	7C	7D	7E	
8A	8A	8A	8A	8A	8A	8A	8A	8A	8A	
\$72 M	\$80 M	\$83 M	\$91 M	\$79 M	\$74 M	\$81 M	\$85 M	\$92 M	\$80 M	
\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M	\$700 K



NFP Framework

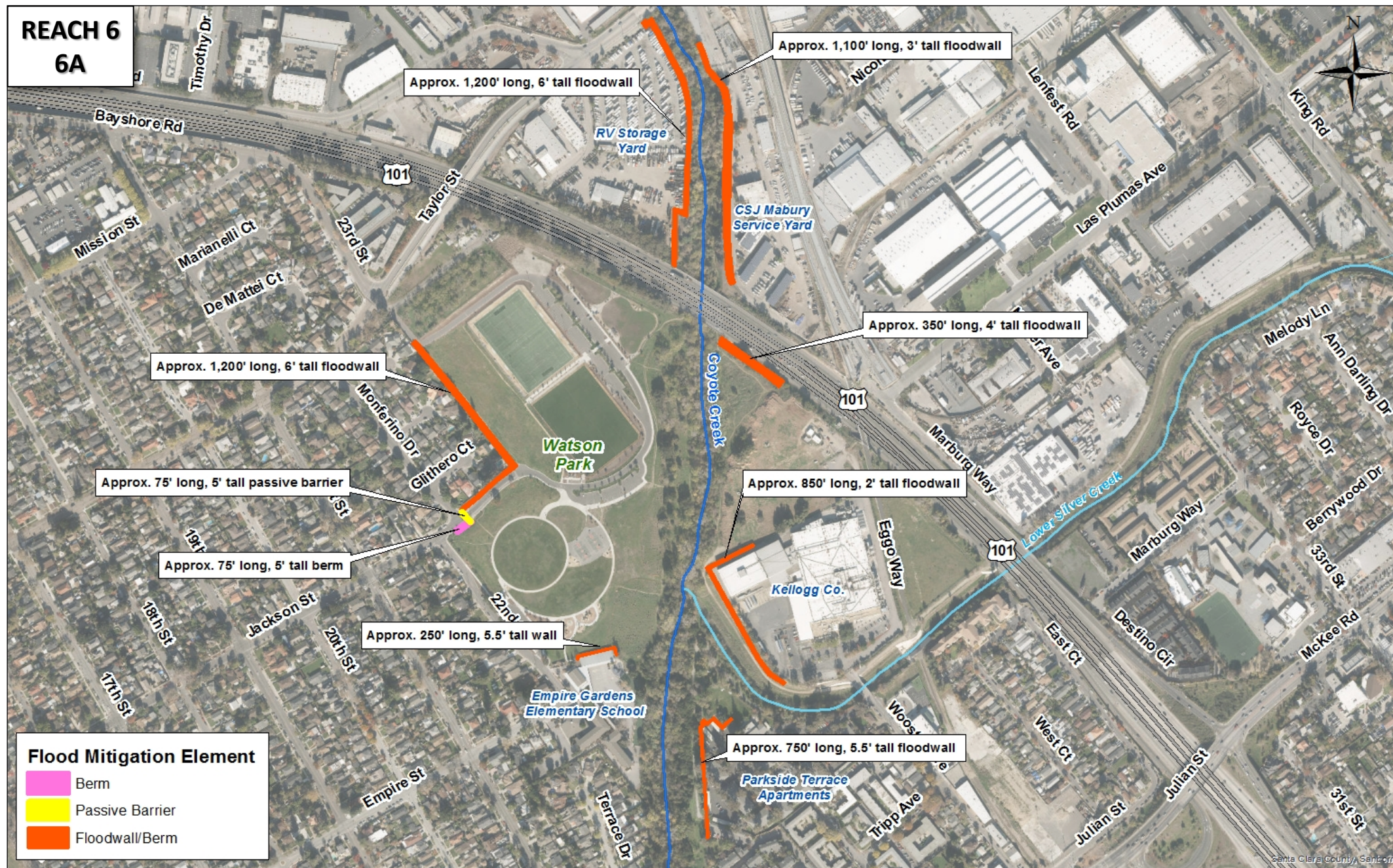


Preferred Project Alternative

1	2	3	4	5	6	7	8	9	10	11
4A	4A	4A	4A	4A	4B	4B	4B	4B	4B	No Project
5A	5A	5A	5A	5A	5A	5A	5A	5A	5A	
6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	
7A	7B	7C	7D	7E	7A	7B	7C	7D	7E	
8A	8A	8A	8A	8A	8A	8A	8A	8A	8A	
\$72 M	\$80 M	\$83 M	\$91 M	\$79 M	\$74 M	\$81 M	\$85 M	\$92 M	\$80 M	
\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.2 M	\$1.3 M	\$1.3 M	\$700 K

NFP Preferred

REACH 6 6A



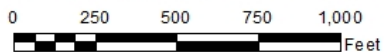
Flood Mitigation Element

- Berm
- Passive Barrier
- Floodwall/Berm

[illegible]

-  Berm
-  Acquire
-  Floodwall
-  Passive barrier

0 250 500 750 1,000
Feet



FERC Order Compliance Flood Management Measures

FERC directs VW to start lowering
Anderson Dam to deadpool no later than
October 1st, 2020

February 20, 2020

Federal Energy Regulatory
Commission (FERC) letter to
Valley Water (VW)

FERC directs VW to expedite
implementation of the diversion
tunnel system – Anderson Dam
Tunnel Project (ADTP)

ADTP designed for a maximum discharge of 2,000 cfs plus additional contribution from existing outlet and tributary flows

Completion of some elements of the ongoing Coyote Creek Flood Protection Project is necessary as avoidance and minimization measures for the ADTP to prevent flooding within urbanized areas – FERC Order Compliance Project (FOCP)

December 2023

ADTP tunnel system scheduled to complete construction

Spring 2020

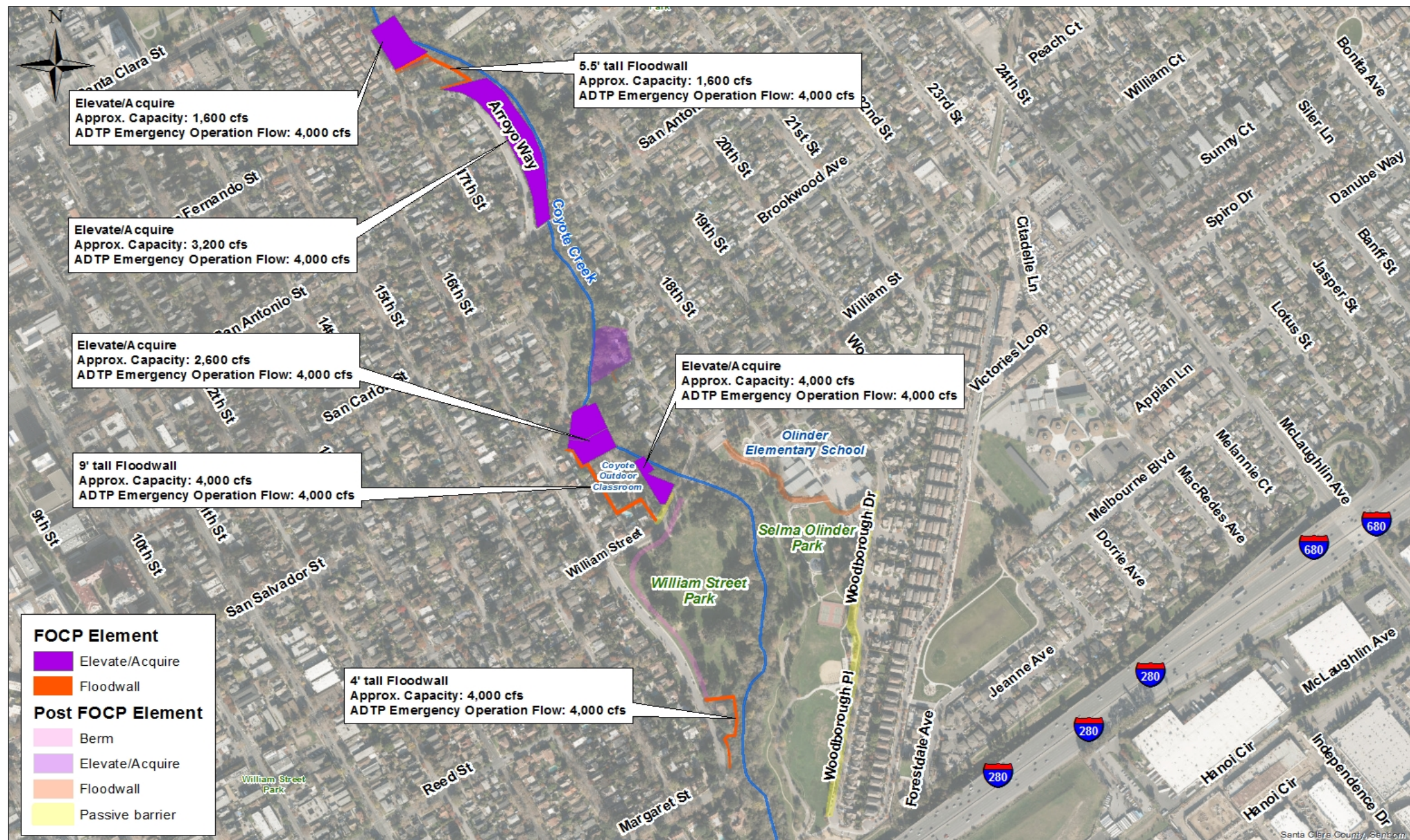
VW identified areas within Coyote Creek where flooding would occur as a result of implementing the FERC Order

Anderson Dam Flood Management Measures

Reach	General Location Along Coyote Creek	Facility/Area subject to flooding	Approximate Creek Capacity (cfs)	Combined Coyote Creek Flows during ADTP Emergency Operation (cfs) – Dec 2023
5	Berryessa Road	5A	2,000	6,500
		5B.1	1,300	
		5B.2		
	U/S Upper Penitencia Creek	5C	4,100	5,600
6	D/S Lower Silver Creek	6A	4,500	5,600
7	U/S Lower Silver Creek	7A.1	1,600	4,000
		7A.2		
		7B	3,200	
		7C	2,600	
	East William Street	7D.1	4,000	
		7D.2		
		7D.3		

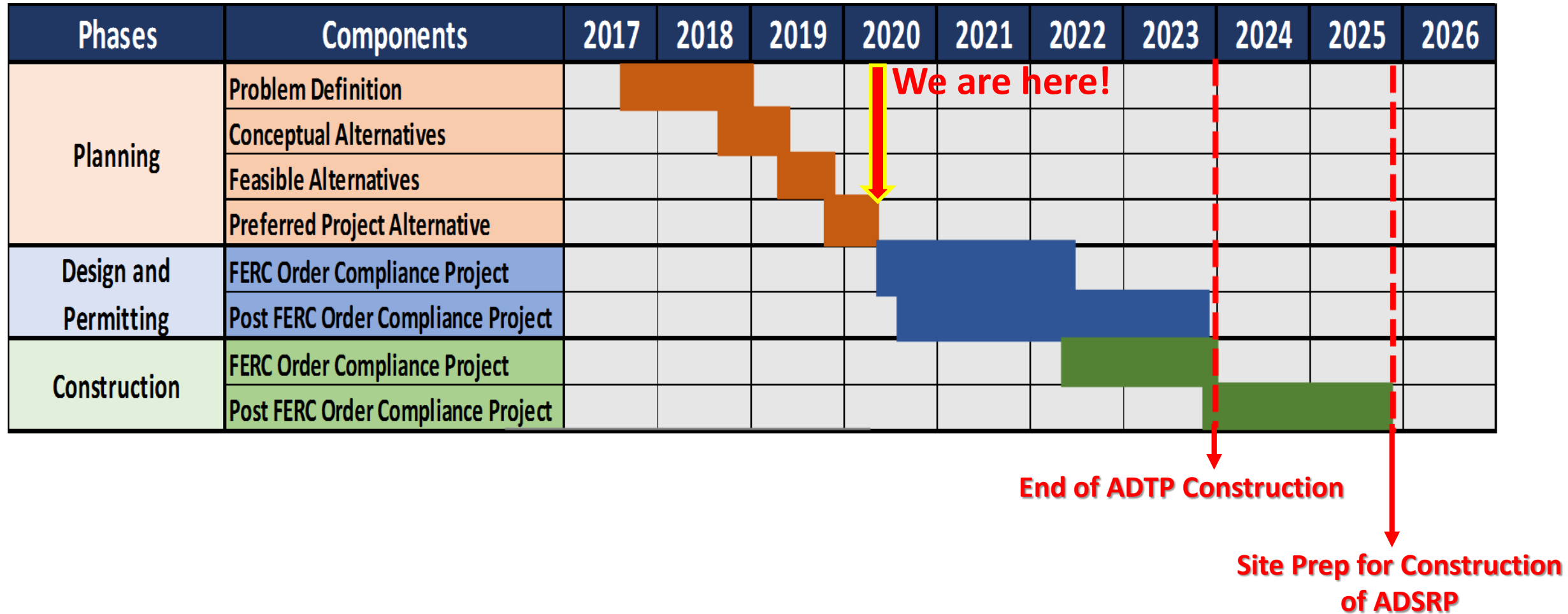


Coyote Creek Flood Management Measures for FOCF – Reach 6

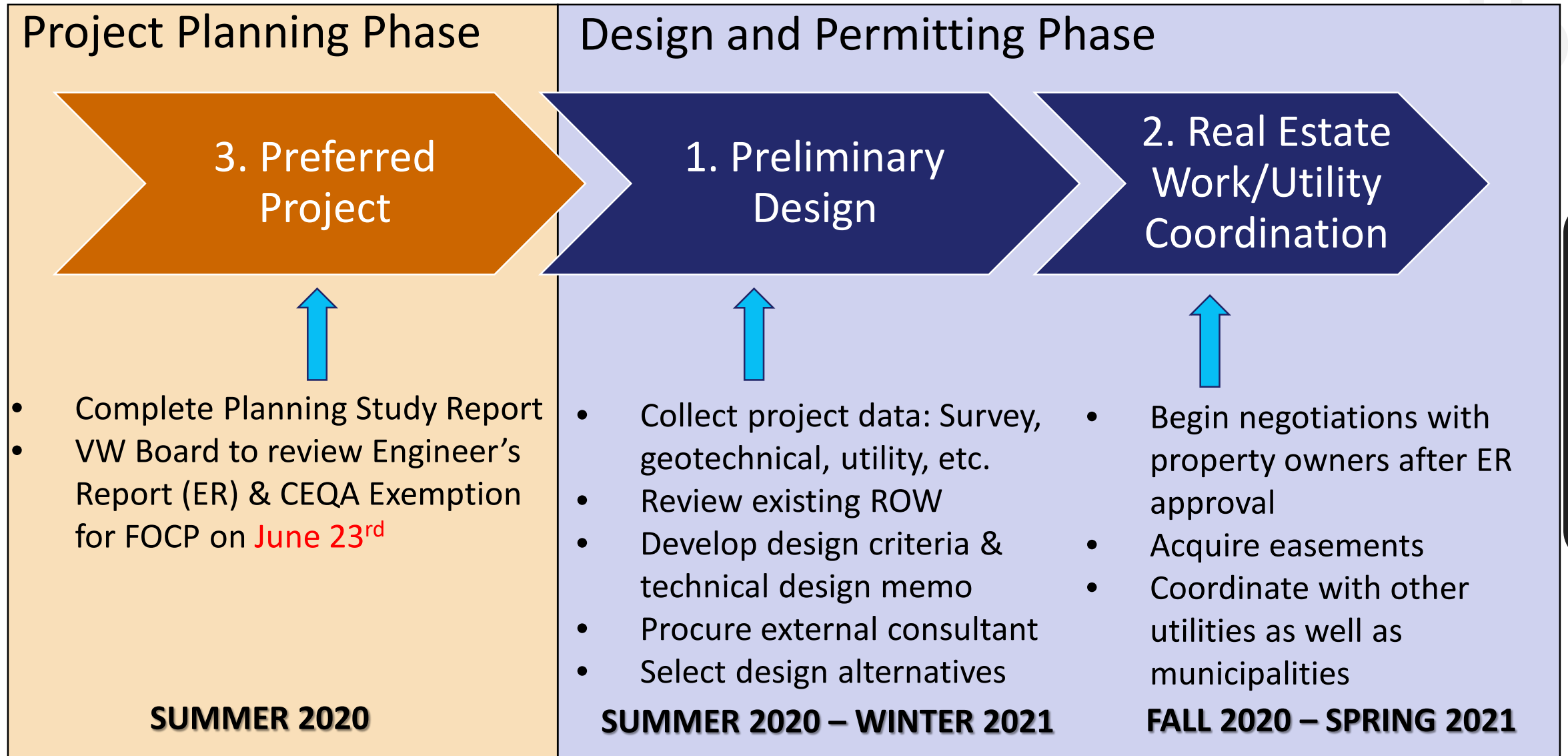


Coyote Creek Flood Management Measures for FOCF – Reach 7

Project Timeline



Next Steps



Next Steps

Design and Permitting Phase



- Continue meeting with public throughout design phase
 - o Update public on current project status
 - o Solicit public input on various design elements, i.e. aesthetics, signage, open space elements, public art

Project Design Team

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Alec Nicholas

Capital Engineering
Manager

Main Point of Contact:

Lotina Nishijima

Project Manager

lnishijima@valleywater.org

408-630-2795

José Villarreal

Public Information Representative

jvillarreal@valleywater.org

408-630-2879

Dámaris Villalobos-Galindo

Assistant Project Manager

Thank You



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