



Valley Water

Clean Water • Healthy Environment • Flood Protection



Upper Penitencia Creek Flood Protection Project

Flood Risk Reduction, Water Supply & Creek Habitat Benefits

Public Meeting
May 15th, 2019
6:30 – 8:30 pm

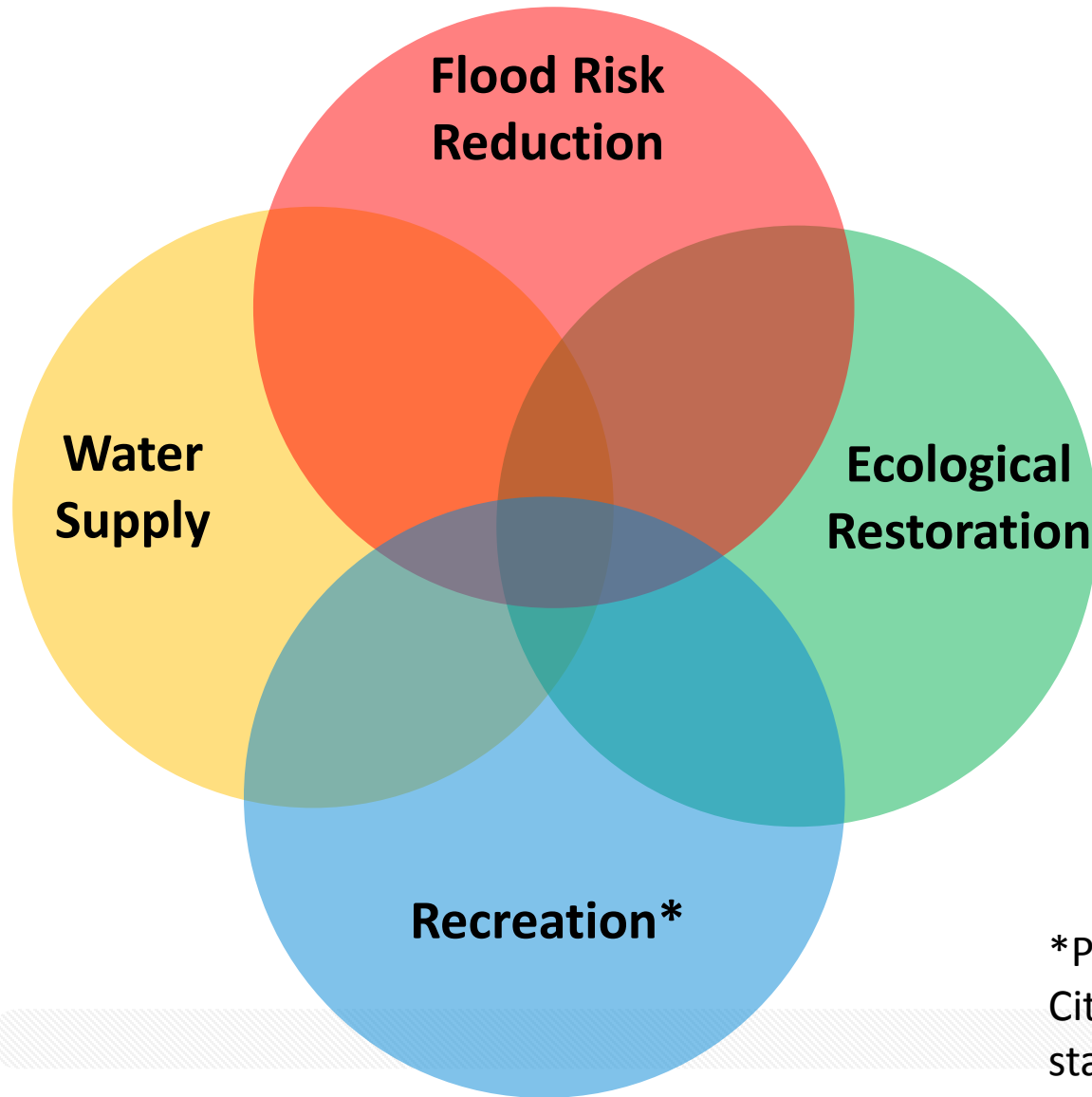
Agenda

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- Check-in and refreshments
- Welcome & Introductions
- Upper Penitencia Creek Project Presentation
- Community Q & A
- Public Review – Alternatives Poster Boards
- Public Shares their Input
- Next Steps
- End Meeting, Thank You!

Multi-Benefit Project

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Upper Penitencia Creek Project Presentation

1. Problem Definition

2. Public Input

3. Alternatives

4. Reach by Reach Description

5. Public Q & A

6. Next Steps

PROBLEM DEFINITION & OPPORTUNITIES

Problem Definition & Opportunities

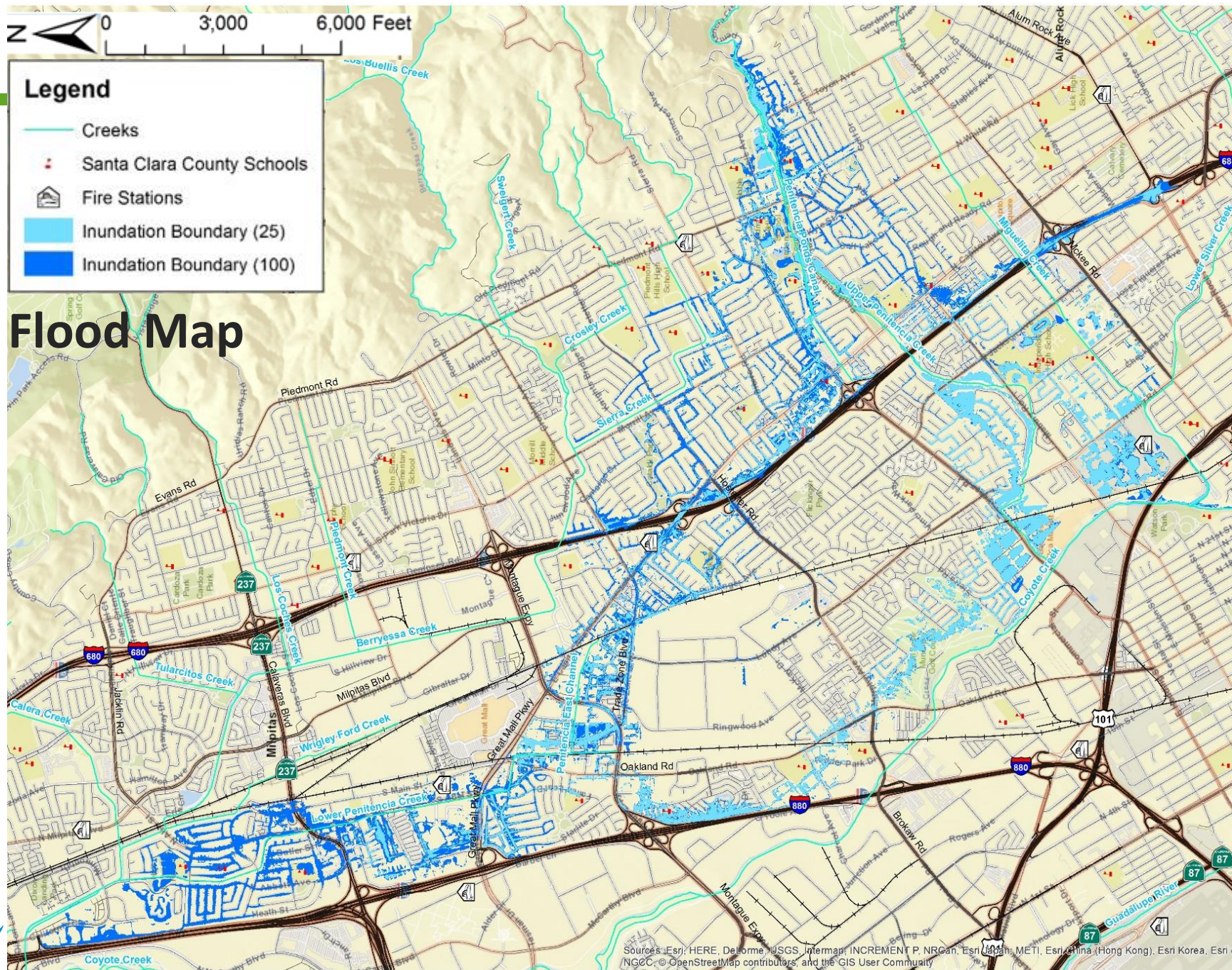
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Problems/Constraints

- Flood Risk
- Ecological
- Maintenance
- Water Supply
- Coyote Creek

Opportunities

- Ecological Restoration
- Recreation
- Coyote Creek Project
- Aesthetics



Public Input

- October 2, 2018 Meeting
- Existing - What does the public value?
 - Riparian habitat (plus minimal concrete)
 - Aesthetic value
 - Open space and trail
 - Flood protection
 - Water recharge ponds (Overfelt, creek parks)

Public Input (Cont'd)

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■ Conceptual Alternatives – PROS

- Riparian corridor preservation/enhancement
- Recreational opportunities
- Flood risk reduction
- Fish habitat – Noble diversion removal

■ Conceptual Alternatives – CONS

- Coyote Confluence
- Educational signage
- Safety
- Flood Insurance focus
- Maintenance - dead trees
- Do work in phases

ALTERNATIVES

- Flood protection, ecological, recreation, water supply
- Combination of Vision Concepts
 - In-Channel work – Widen, Restore, Levees
 - Off-Channel work – Detention
 - Other: floodwalls
- Collaboration – Public Land
- Public Input
- Key Constraint – Cannot Induce Flooding

Screening Level 1

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- Cost
- Project Objectives: Flood protection, water supply, ecological, recreation
- Technical/Logistical Feasibility
- Major Constraint: Cannot Induce Flooding Downstream (Coyote Creek)

Screening Level 2

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Natural Flood Protection

- 1. Flood Protection
- 2. Watershed Context
- 3. Ecology

- 4. Geomorphology: Stability – water & sediment management
- 5. Maintenance – minimize long term O & M

- 6. Water Quality & Quantity
- 7. Local Partner Agencies – meet partner agencies goals**
- 8. Community Benefits – full range of benefits**

- 9. Life Cycle Costs – long term investment
- 10. Environmental Impacts – least damaging yet practical

Government Agencies & Guiding Documents

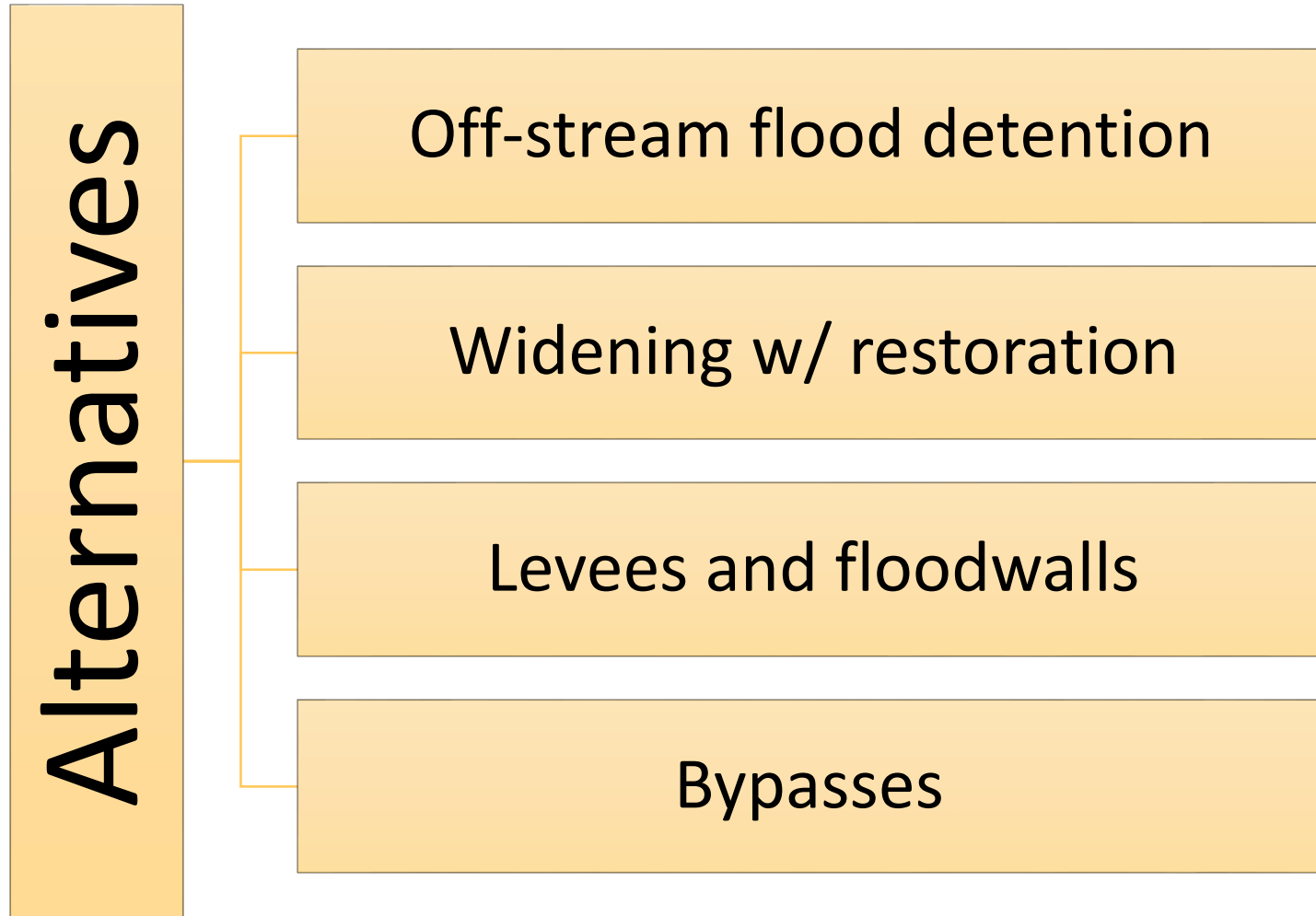
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Local Agencies:

- Mutual Goals
- Public Land –
City, County,
Valley Water
- General Plan

Community:

- Recreation
- Safety/Access
- Aesthetics
- Open Space



Alternatives

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Alternative A – 100 year Protection (Detention)
Detention – reduce flow to 20-year

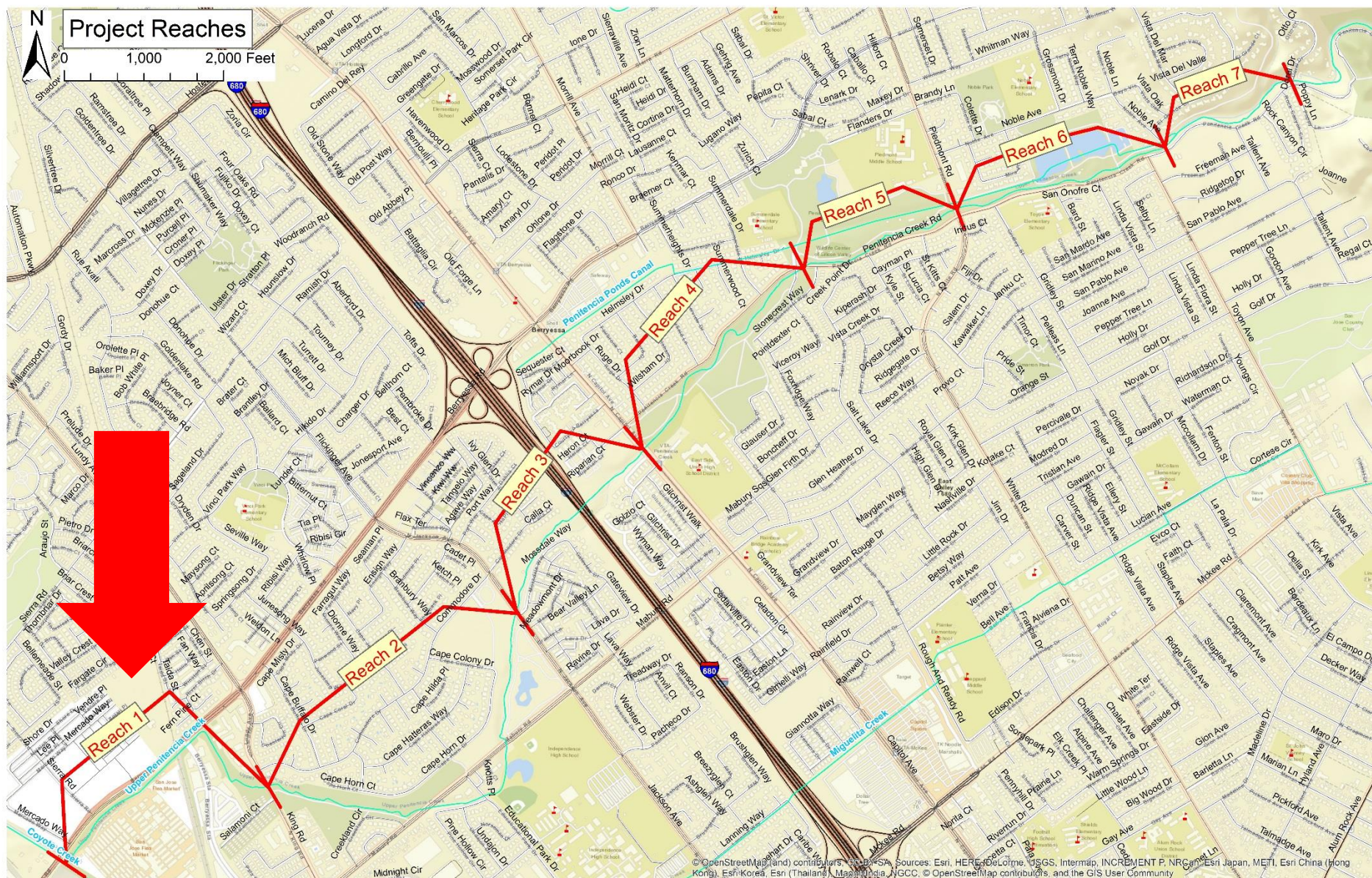
Alternative B – 50 year Protection (Detention)
Detention – Reduce flow to 20-year

Alternative E – 100 year protection – Only Reach 1 (SCW)

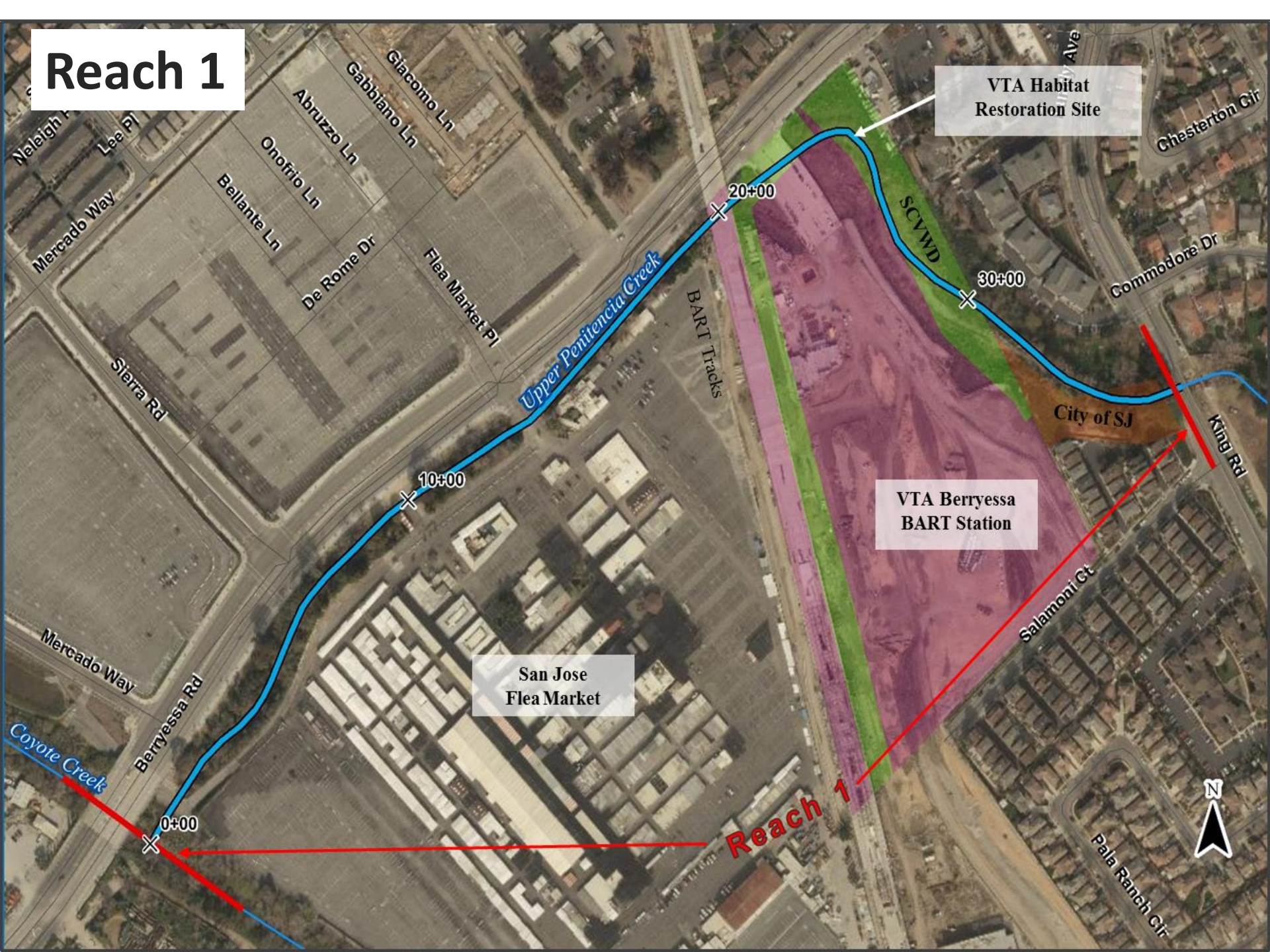
Alternative H – 20 year protection

Alternative I – No Project

REACH BY REACH DESCRIPTIONS

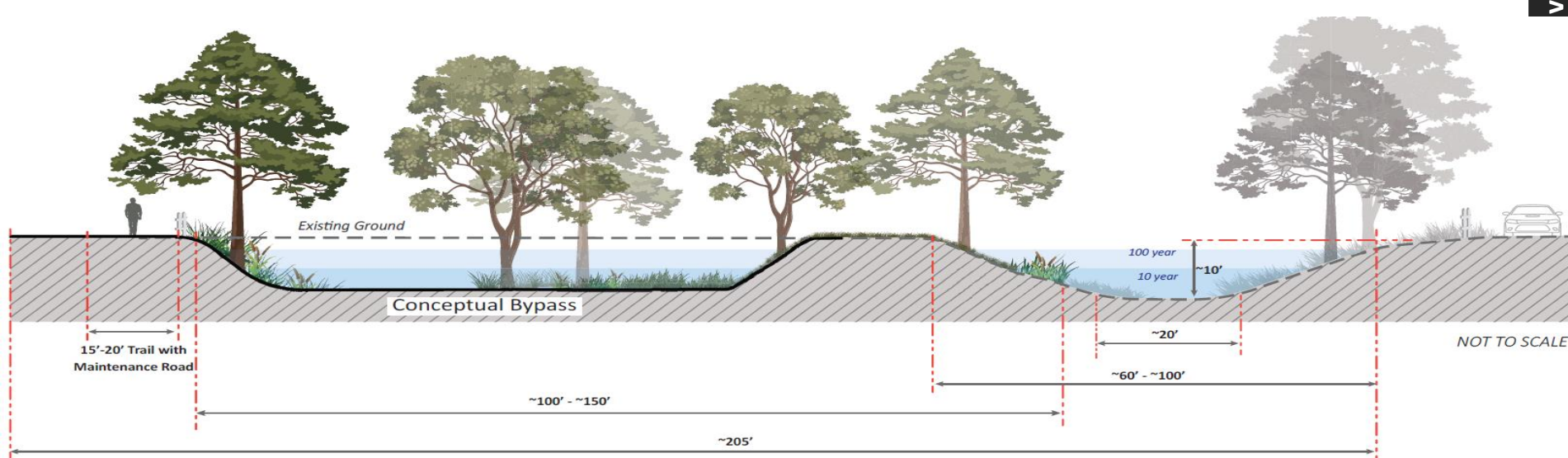
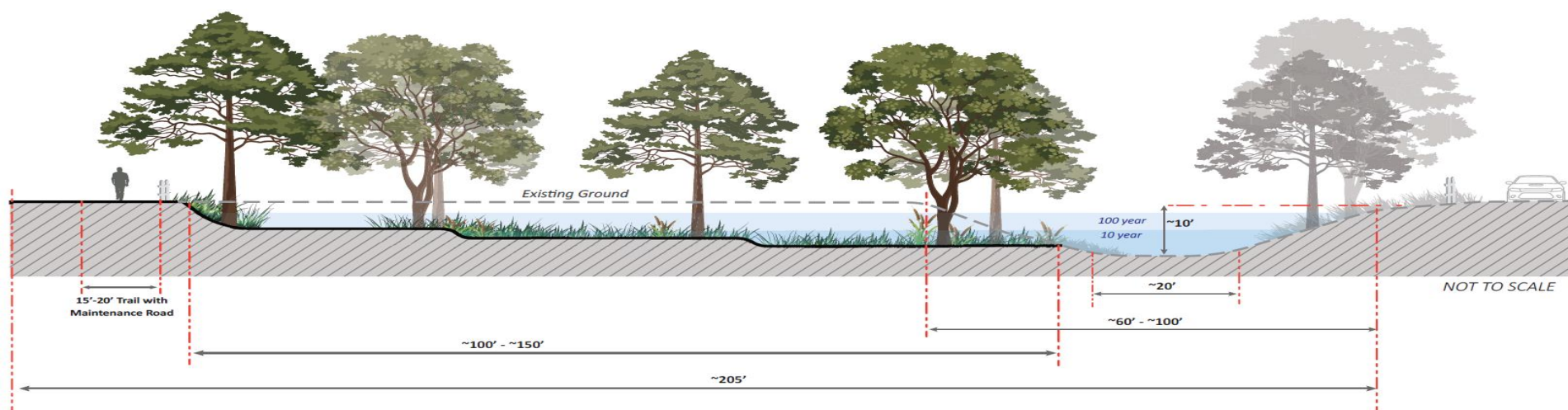


Reach 1

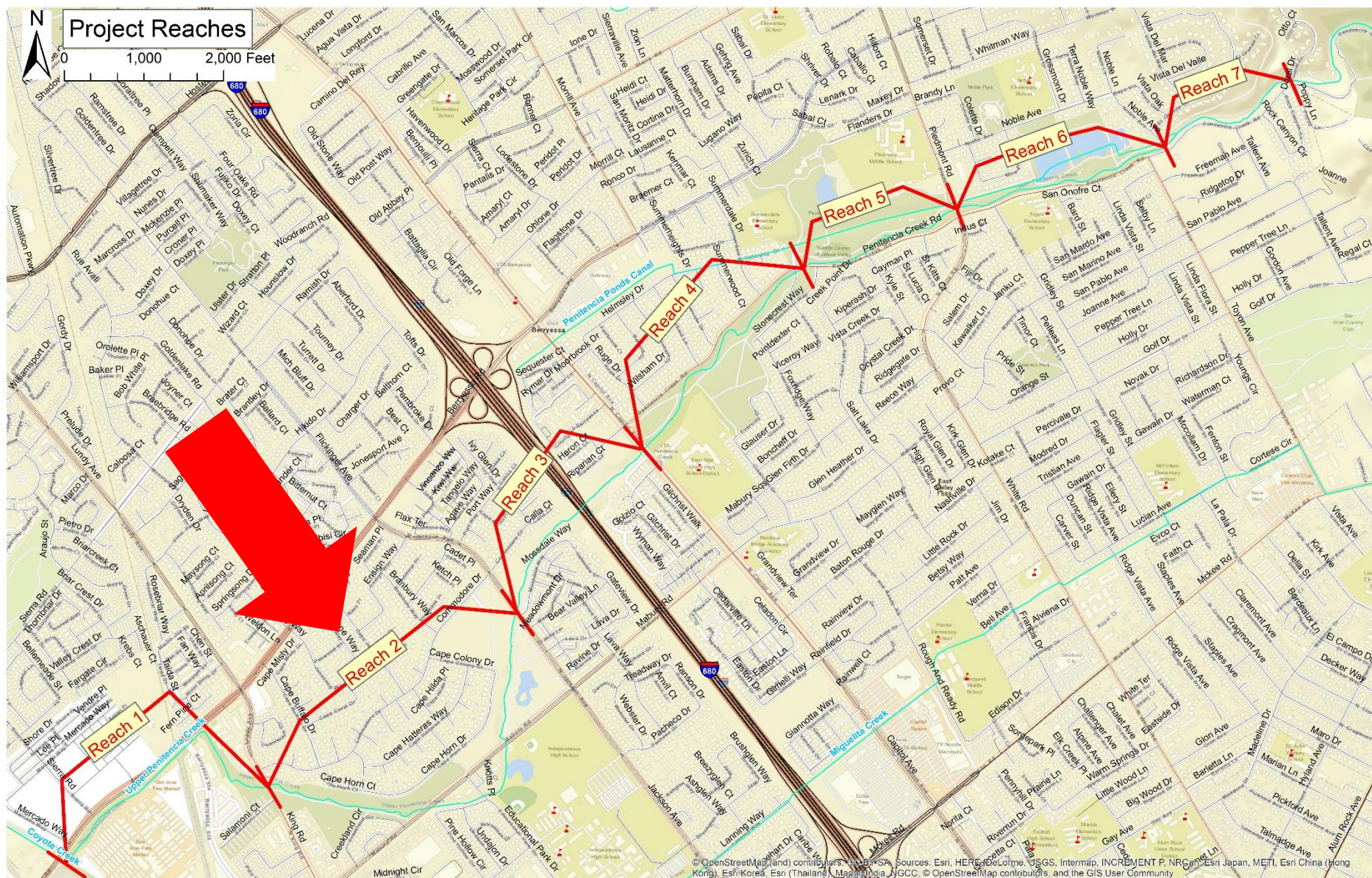


Reach 1: Options 1 and 2

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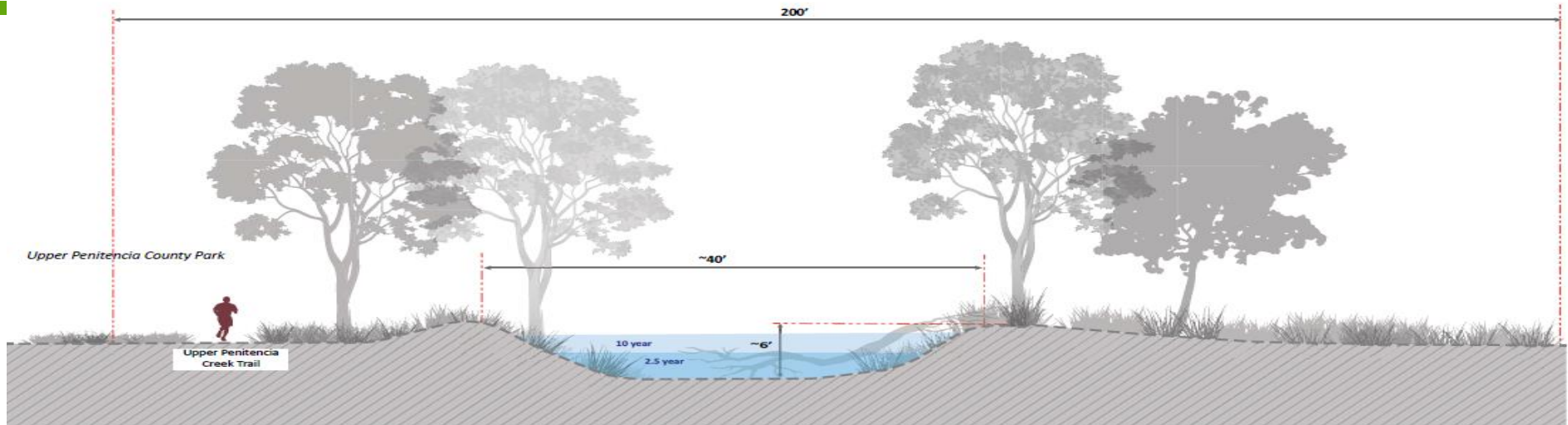
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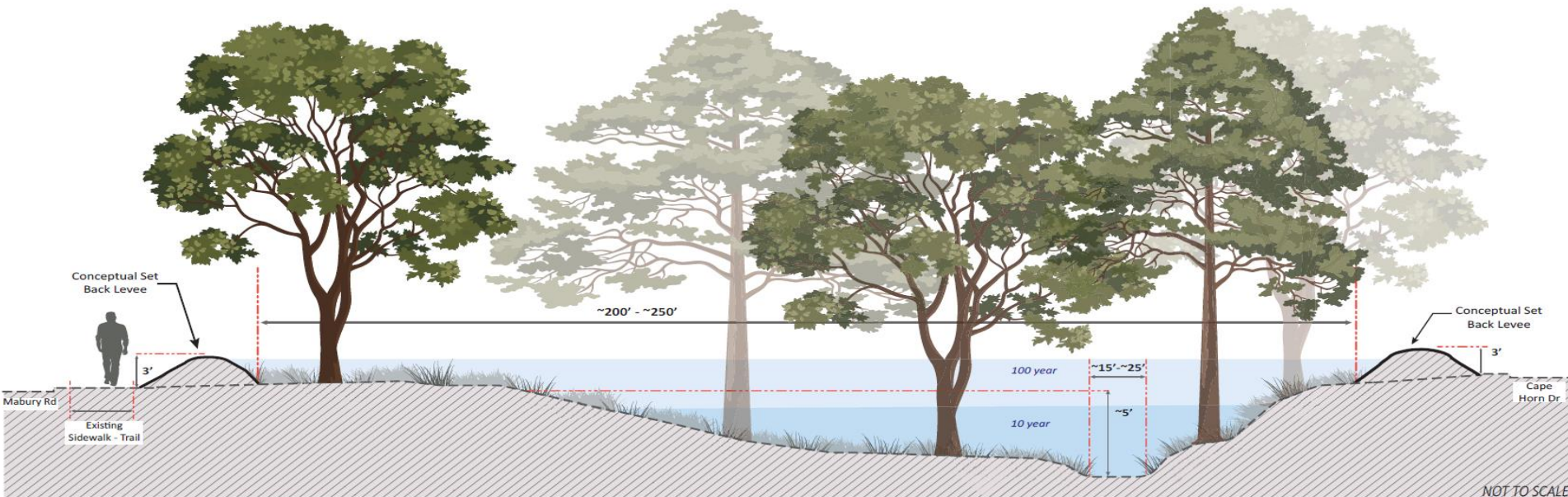
Reach 2



Reach 2

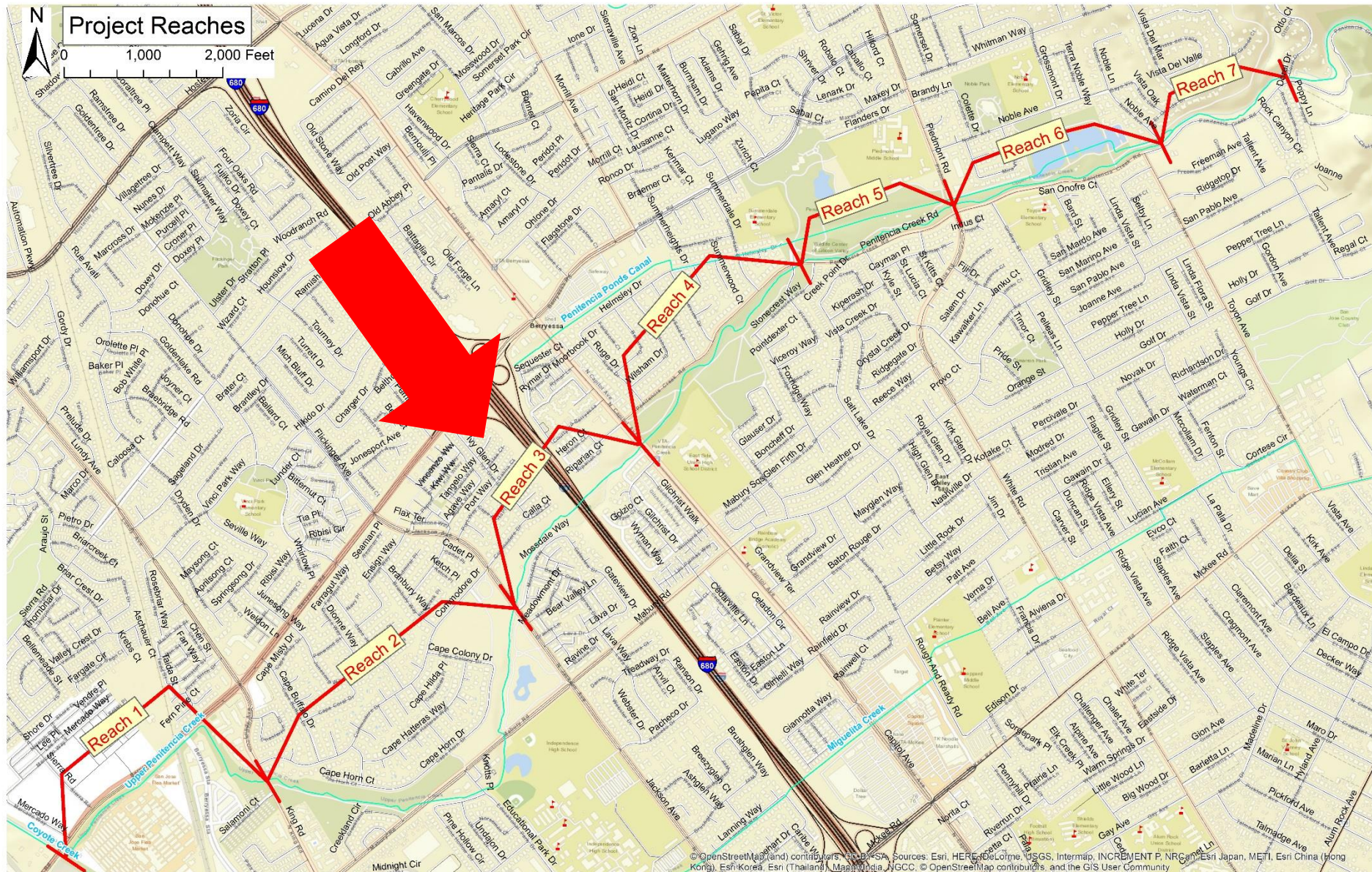


Mabury Bypass



Reach 3

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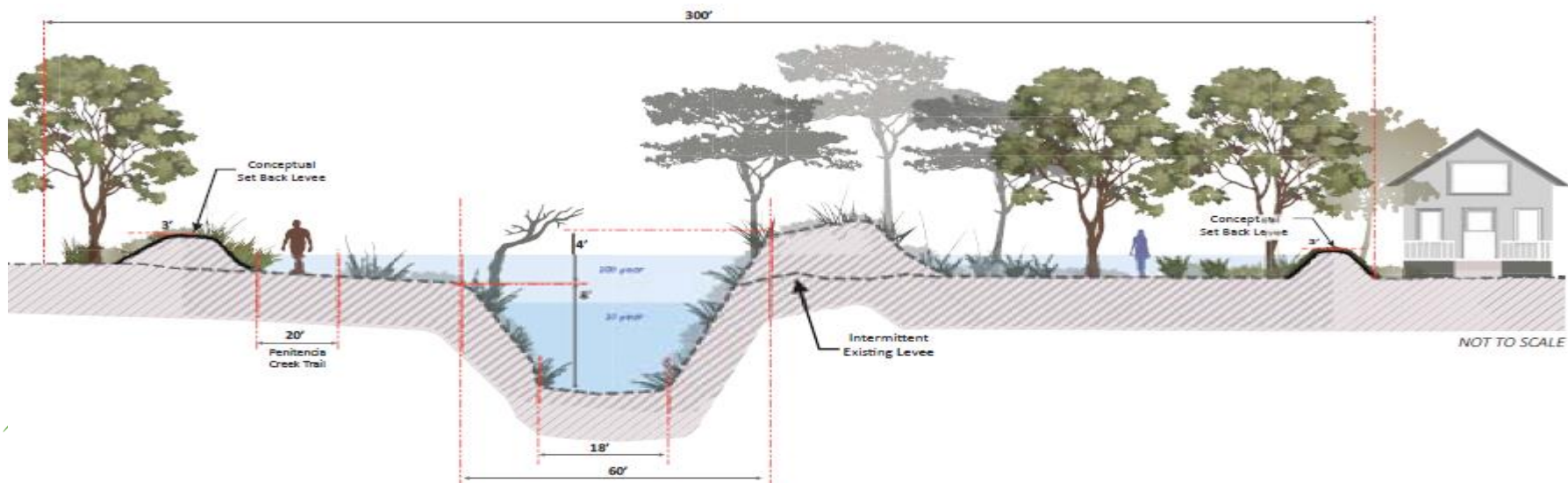
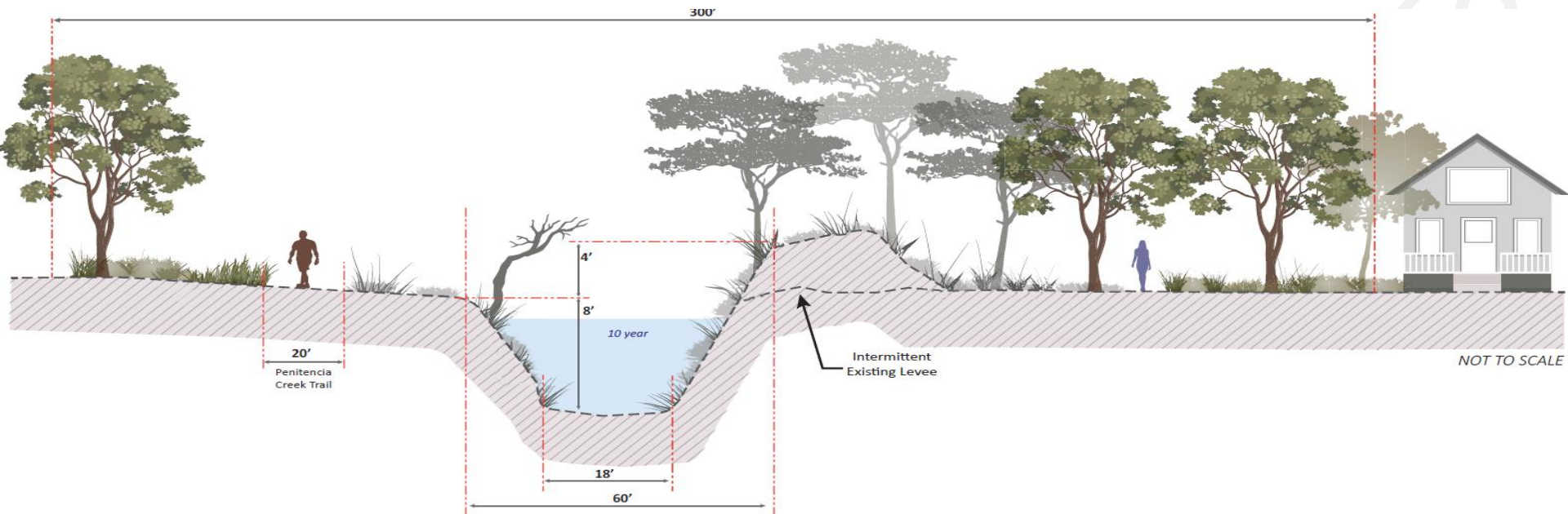


Reach 3



Reach 3

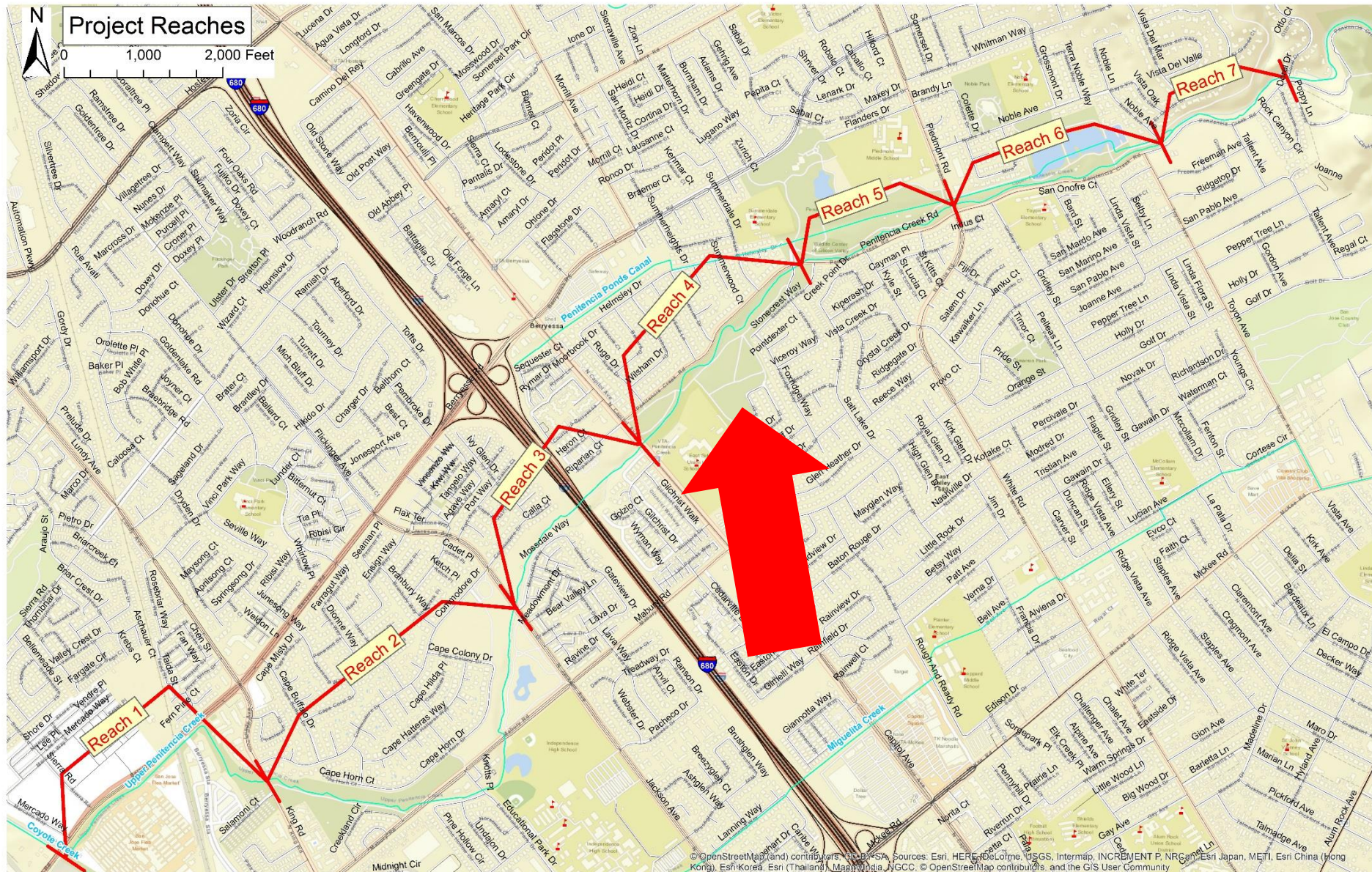
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Reach 4

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Detention Basin – Example

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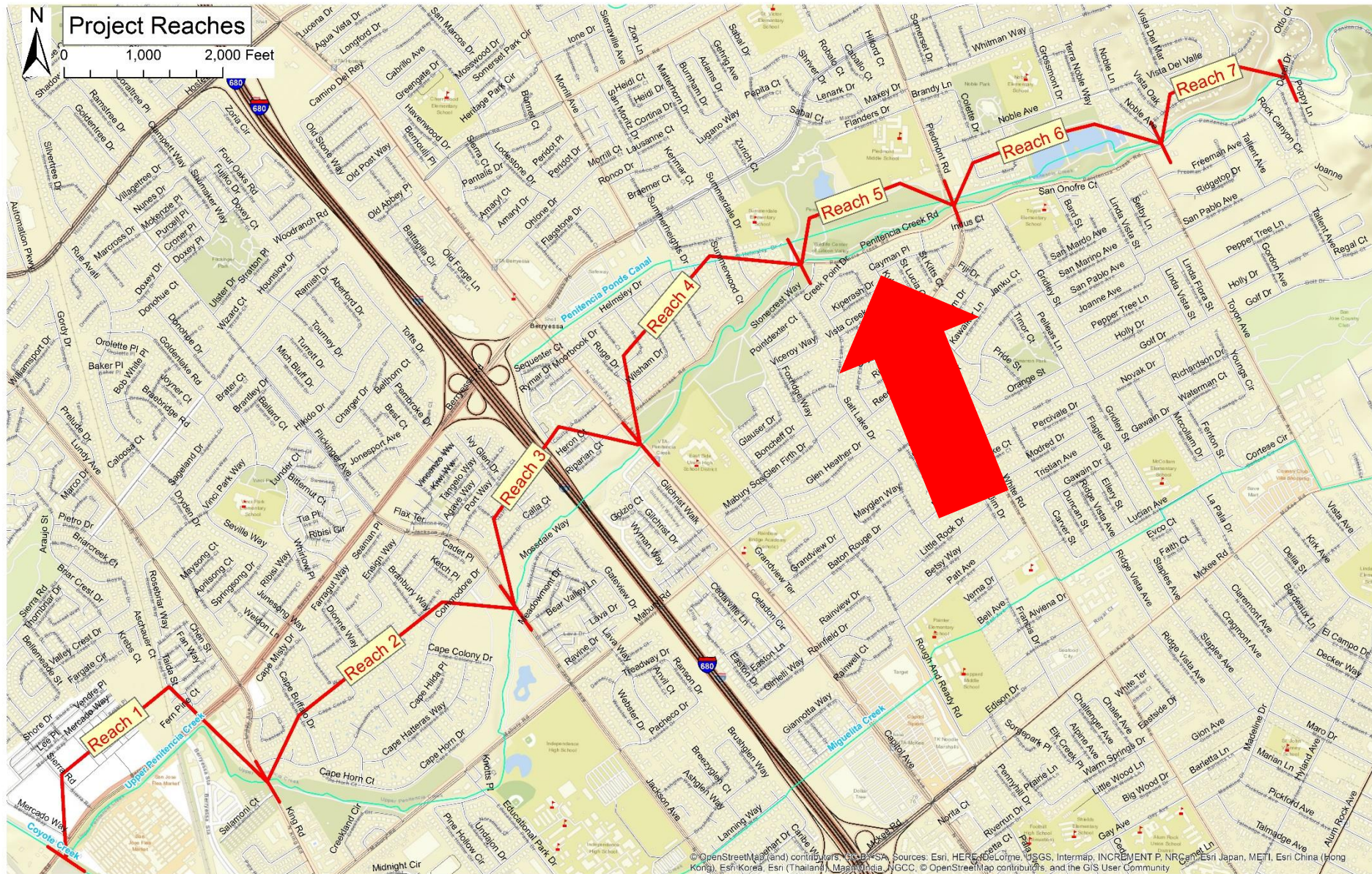
Permanente Crk - Mountain View Rendering



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Reach 5

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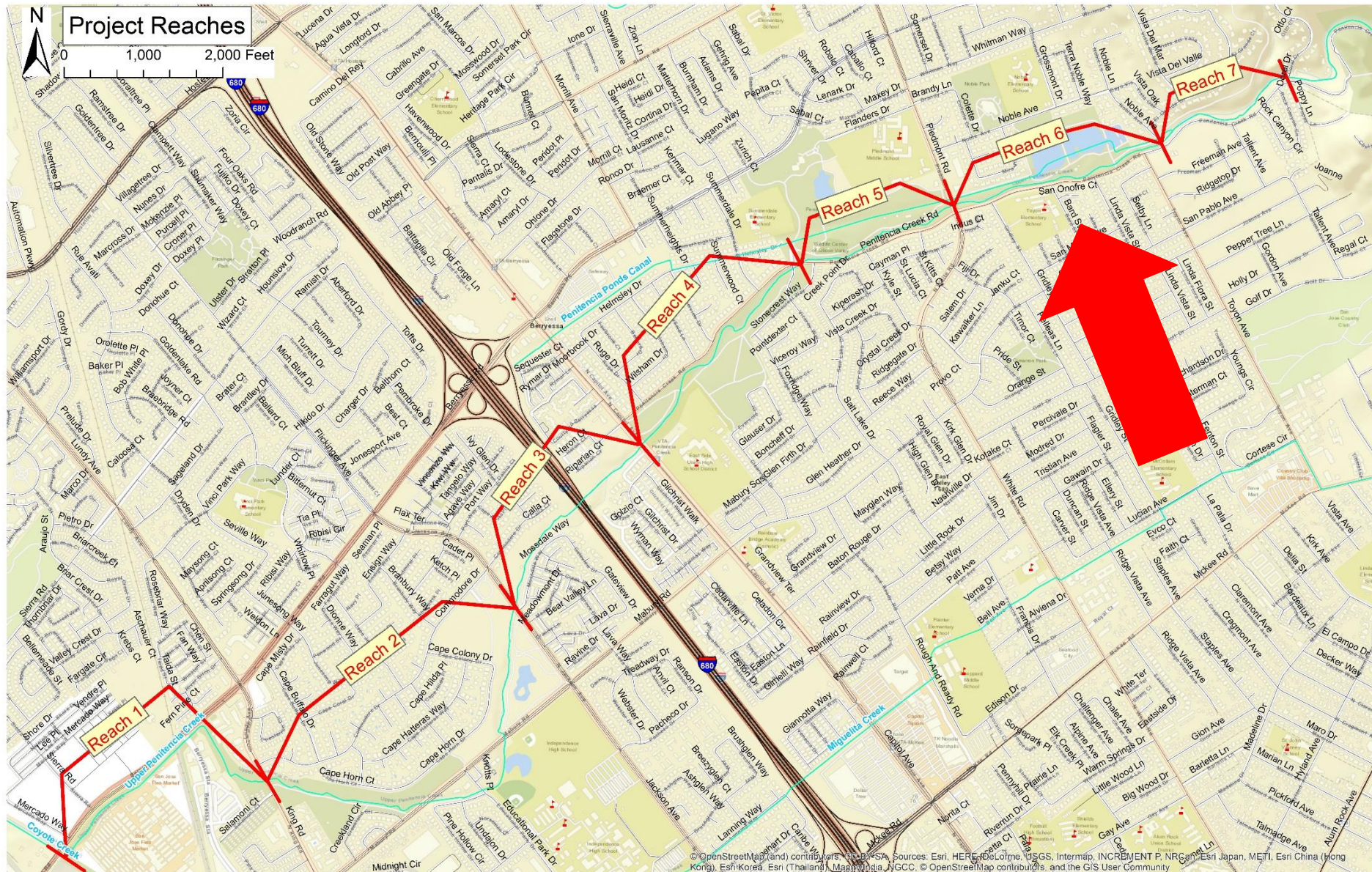


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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Reach 6

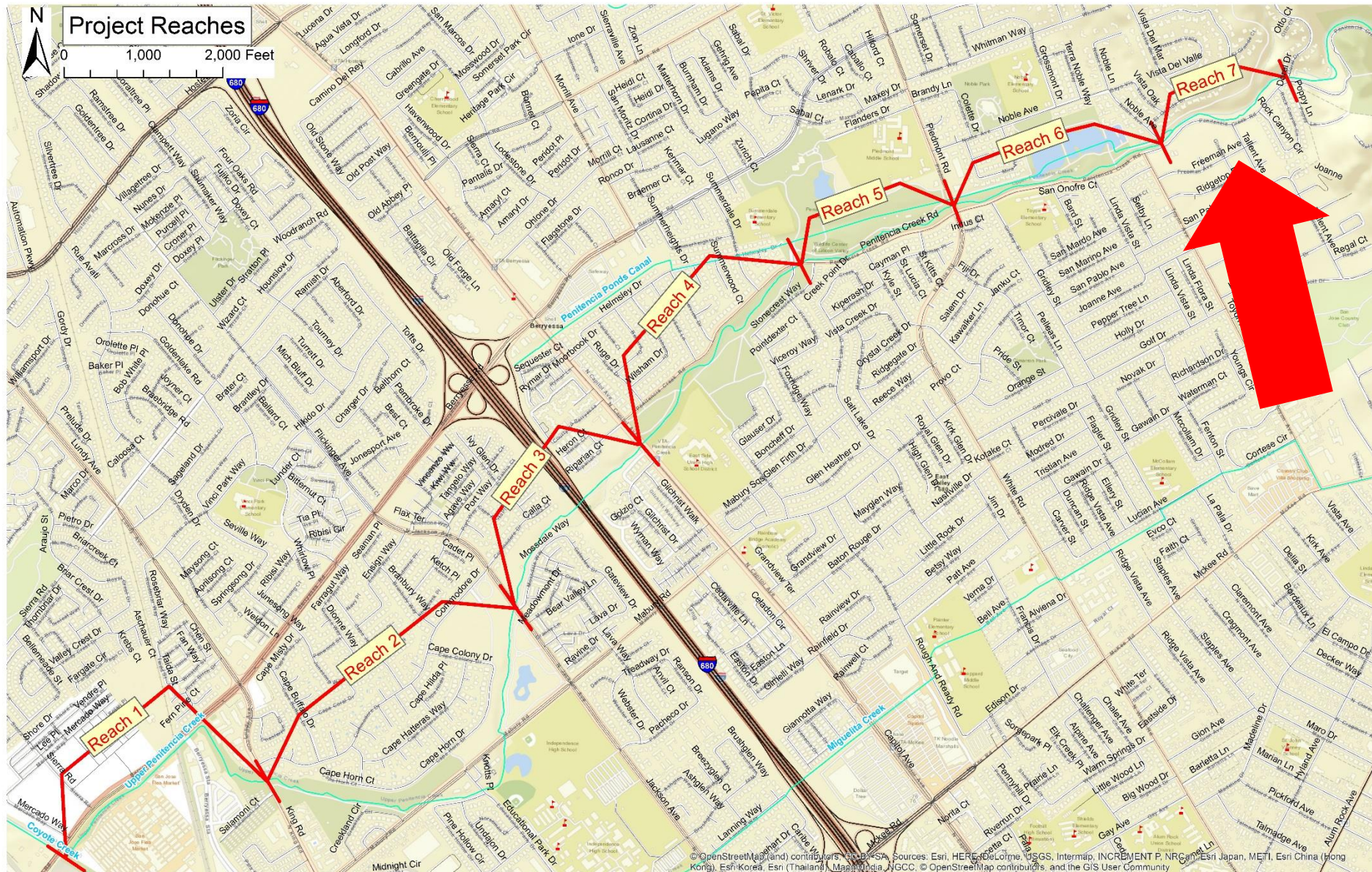
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Reach 7

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Reach 7

San Jose
Water Company

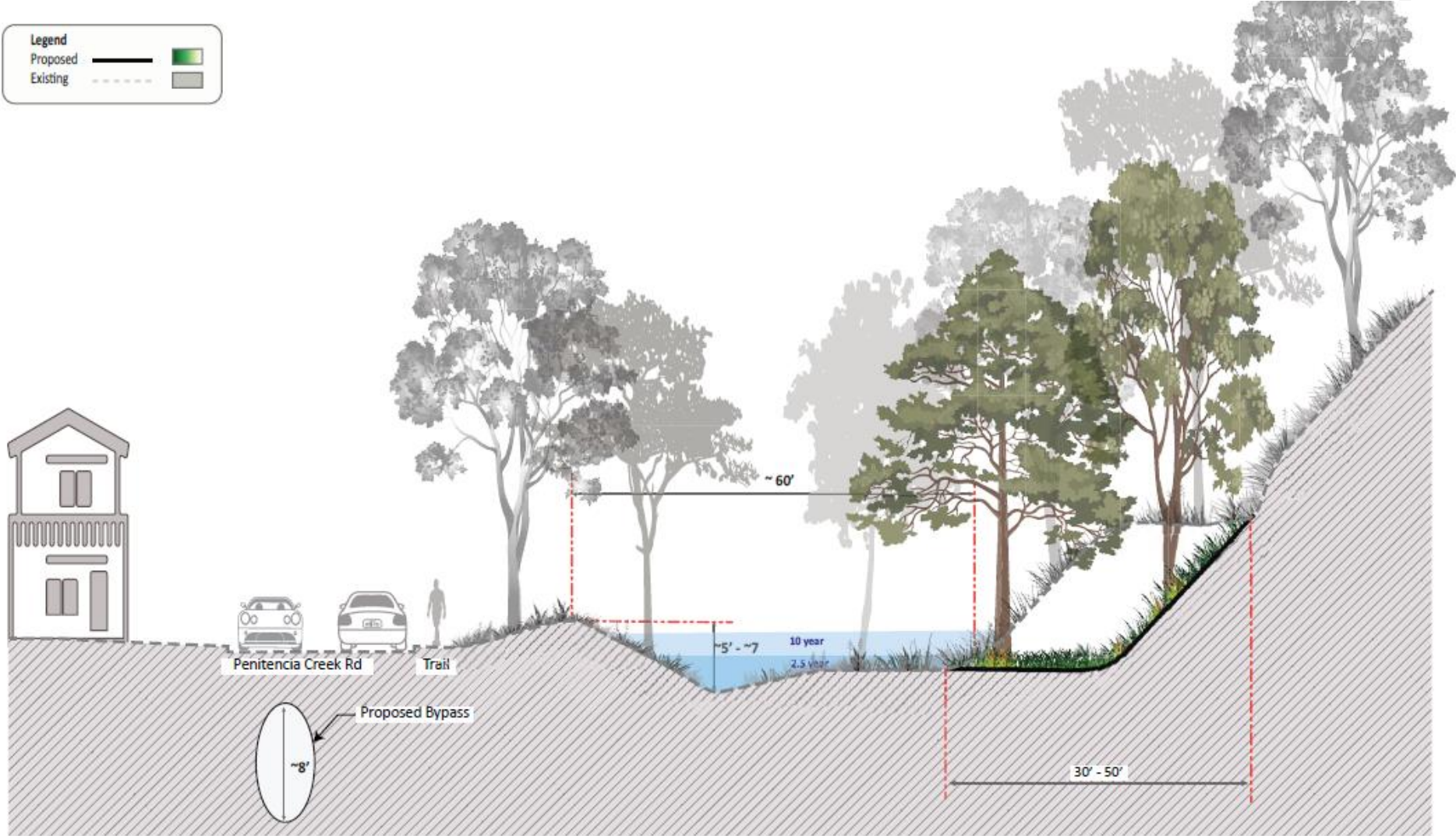
City of
San Jose

Noble Diversion
and Fish Ladder
(non-functional)

South Bay
Aqueduct
Turnout

To Alum
Rock Park

Reach 7 – Option 1: Widening. Option 2: Bypass



Not to Scale

Reach 7 – Option 3: No Work (Flood Flow Interceptor)



COMMUNITY Q & A

Next Steps

Public Lands Agencies: Collaboration to develop preferred plan

Preferred Alternative: to the Board

Planning Study Report: Finalize

Design, CEQA and Permitting:

- Contingent on Board recommendation after Coyote Creek Planning Phase completed

Construction

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