EAST BAY MUNICIPAL UTILITY DISTRICT

San Ramon Valley Recycled Water Program Pump Station R3000

Public Meeting

November 13, 2018

EBMUD

Recycled water
a future to rely on

Project Team

East Bay Municipal Utility District

- Linda Hu, Acting Manager of Water Supply Improvements Division
- Reena Thomas, Associate Civil Engineer
- Ben Glickstein, Community Affairs

Consultant (Environmental Science Associates)

- Meryka Dirks, Project Manager

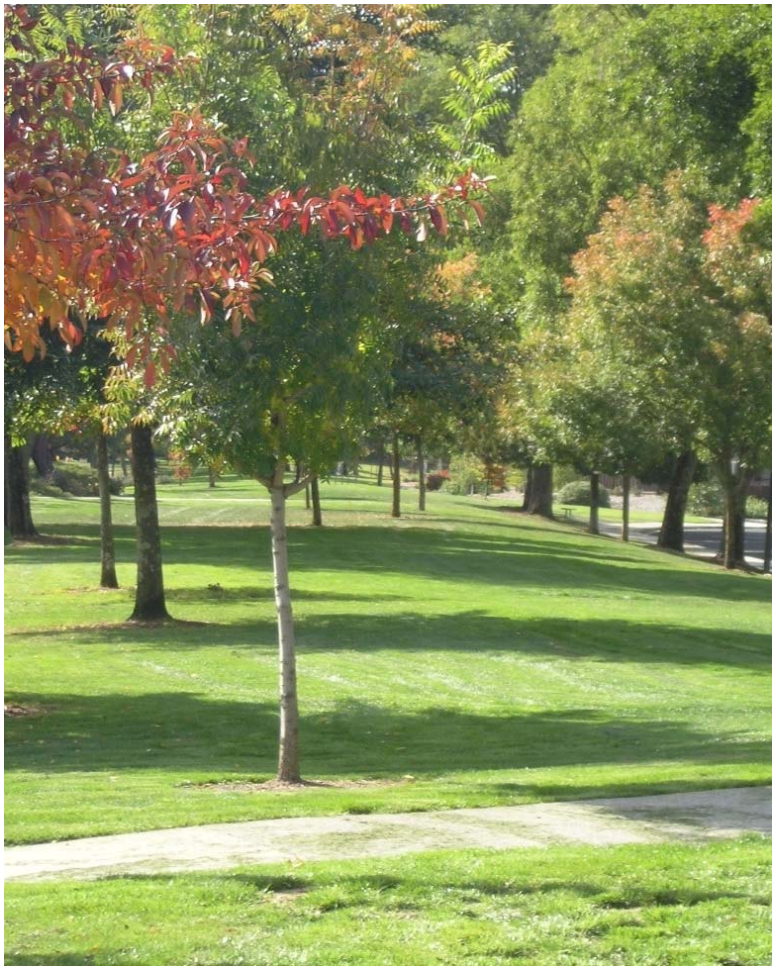
Summary:
Public Meeting, October 17

- **Presentation**
  - Overview of EBMUD System
  - Project Description, Goals, Benefits
  - CEQA Process and Analysis
- **Comments and Questions**
  - Odor
  - Construction
  - Operational Noise
  - Site Selection
  - Appearance

Project Purpose

Purpose

- Recycled Water Pump Station
- Use recycled water to get large irrigators in San Ramon, Blackhawk, and Danville off of drinking water
- Save 980 acre feet per year of drinking water for your essential uses and avoid rationing in drought



Construction

- Up to two years, 2022-24. Limited and intermittent.
- Impact construction limited to weekdays 8:00 a.m. and 4:00 p.m.
- Use best noise-muffling techniques available
- Locate material stockpiles as far as possible from residences
- Apply water and/or coarse rock to all potentially dust-generating construction areas, and cover all haul trucks leaving site
- Use wet power vacuum street sweepers

Construction: Traffic

- Truck arrivals/departures limited to between 9:00 a.m. and 4:00 p.m.
- Truck trips during soil off-hauling: approximately 14 days
- Traffic plan to be developed in coordination with Coyote Creek Elementary and other stakeholders
- Coyote Creek Elementary: Roadway pipeline installation limited to school breaks/summer

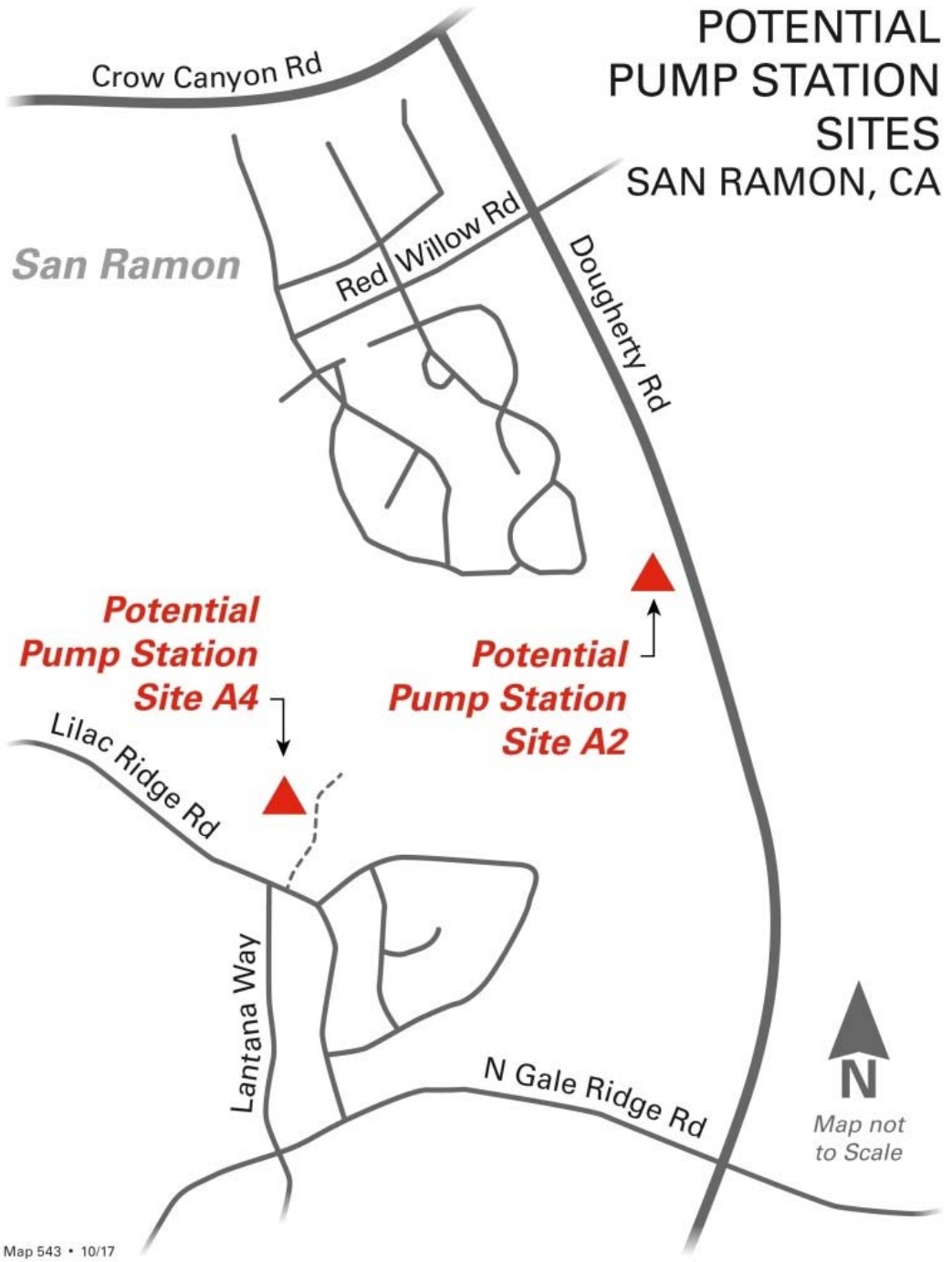
Operational Noise Analysis

dBA	Example	Home & Yard Appliances	Workshop & Construction
0	healthy hearing threshold		
10	a pin dropping		
20	rustling leaves		
30	whisper		
40	babbling brook	computer	
50	light traffic	refrigerator	
60	conversational speech	air conditioner	
70	shower	dishwasher	
75	toilet flushing	vacuum cleaner	
80	alarm clock	garbage disposal	
85	passing diesel truck	snow blower	
90	squeeze toy	lawn mower	arc welder
95	inside subway car	food processor	belt sander
100	motorcycle (riding)		handheld drill
105	sporting event		table saw
110	rock band		jackhammer
115	emergency vehicle siren		
120	thunderclap		
125	balloon popping		
130	peak stadium crowd nois		
135	air raid siren		
140	jet engine at takeoff		
145	firecracker		
150	fighter jet launch		
155	cap gun		
160	shotgun		
165	.357 magnum revolver		
170	safety airbag		
175	howitzer cannon		
180	rocket launch		
...			
194	sound waves become sh waves		

	Pump Station Exterior Noise Level @ 50 Ft	Transformer @ 50 Ft	Estimate Pump Station Noise Level to Residences	Average Ambient/ Nighttime Noise Level Adjacent to Residences	Noise Level Increase?
Site A2	55	28	36.5	49.6/42	No
Site A4	55	28	39.4	50.4/42	No

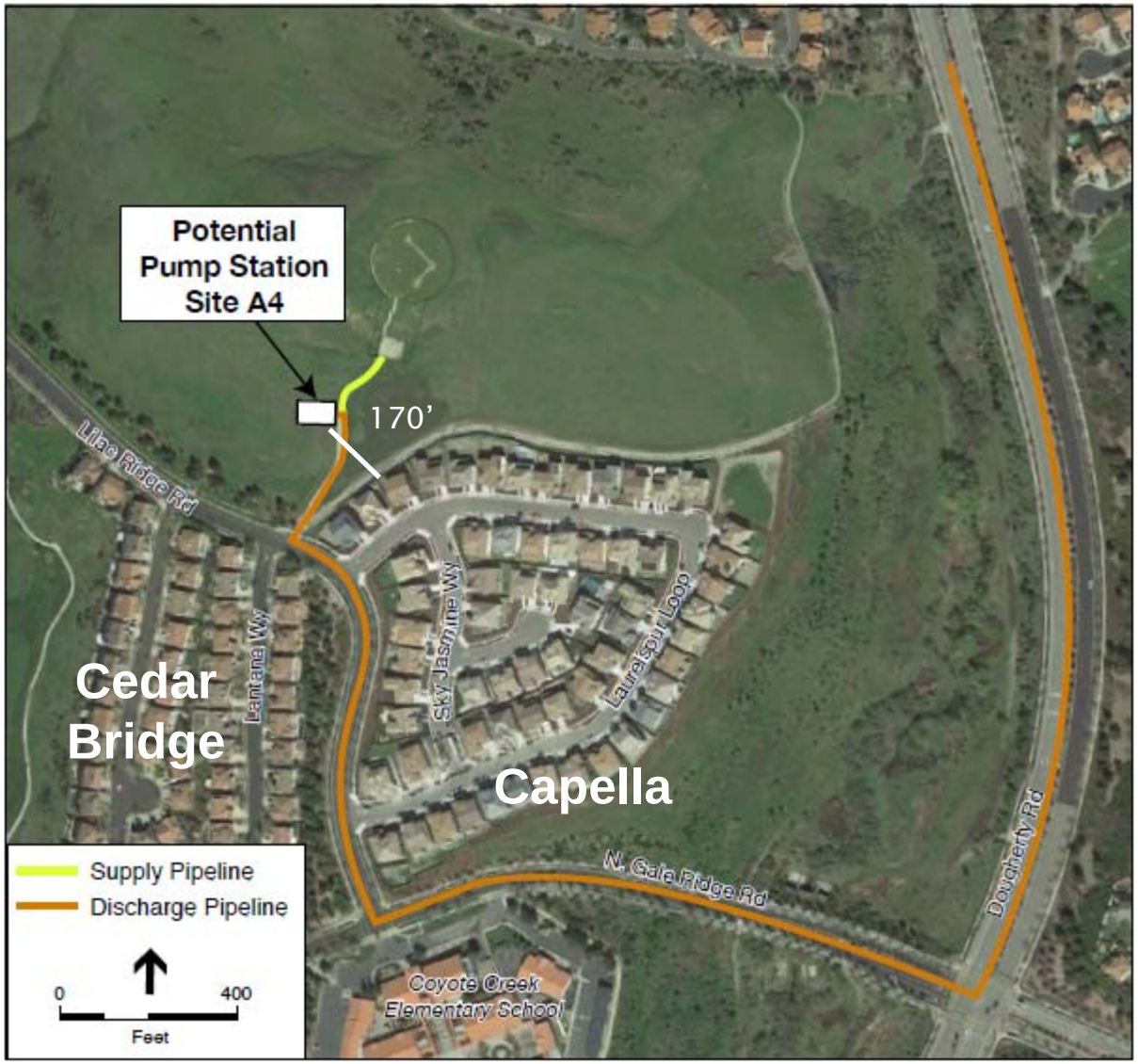
Site Decision

- Current environmental review covers two sites
- Criteria:
  - Elevation
  - Proximity to main (Dougherty Rd.)
  - Distance from residences
- Site A2 is currently being considered as the preferred by staff



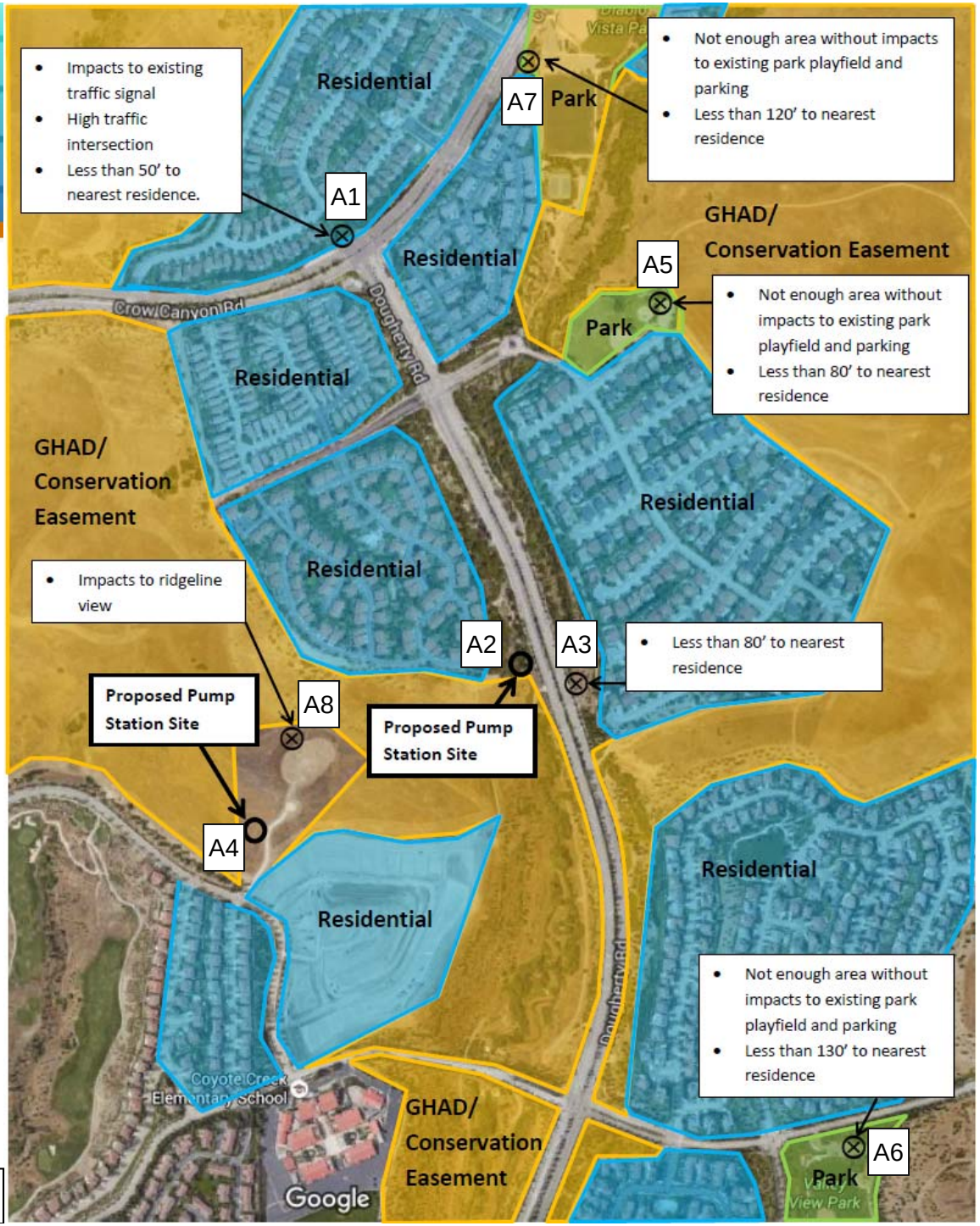
Preferred:
Site A2 Location and Pipeline

Alternate:
Site A4 Location and Pipeline



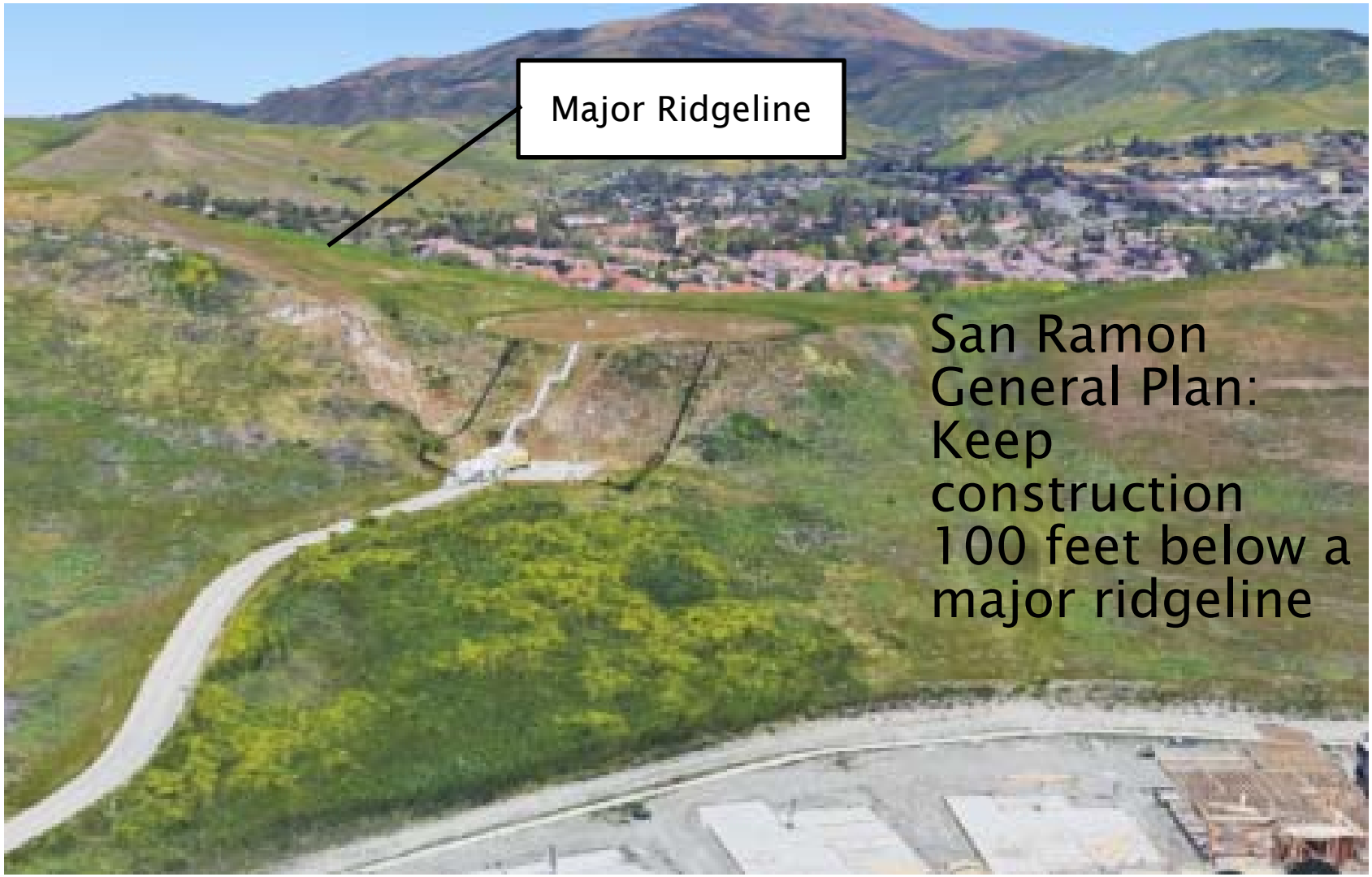
Site Decision

- EBMUD's Pump Station R3000 must be located roughly within the map area to meet pressure needs.
- Other sites are between 38-115 feet from homes
- No construction or facilities are allowable within the GHAD/Conservation Easement,
- Parks are heavily utilized by community.



Areas and locations on map are approximate

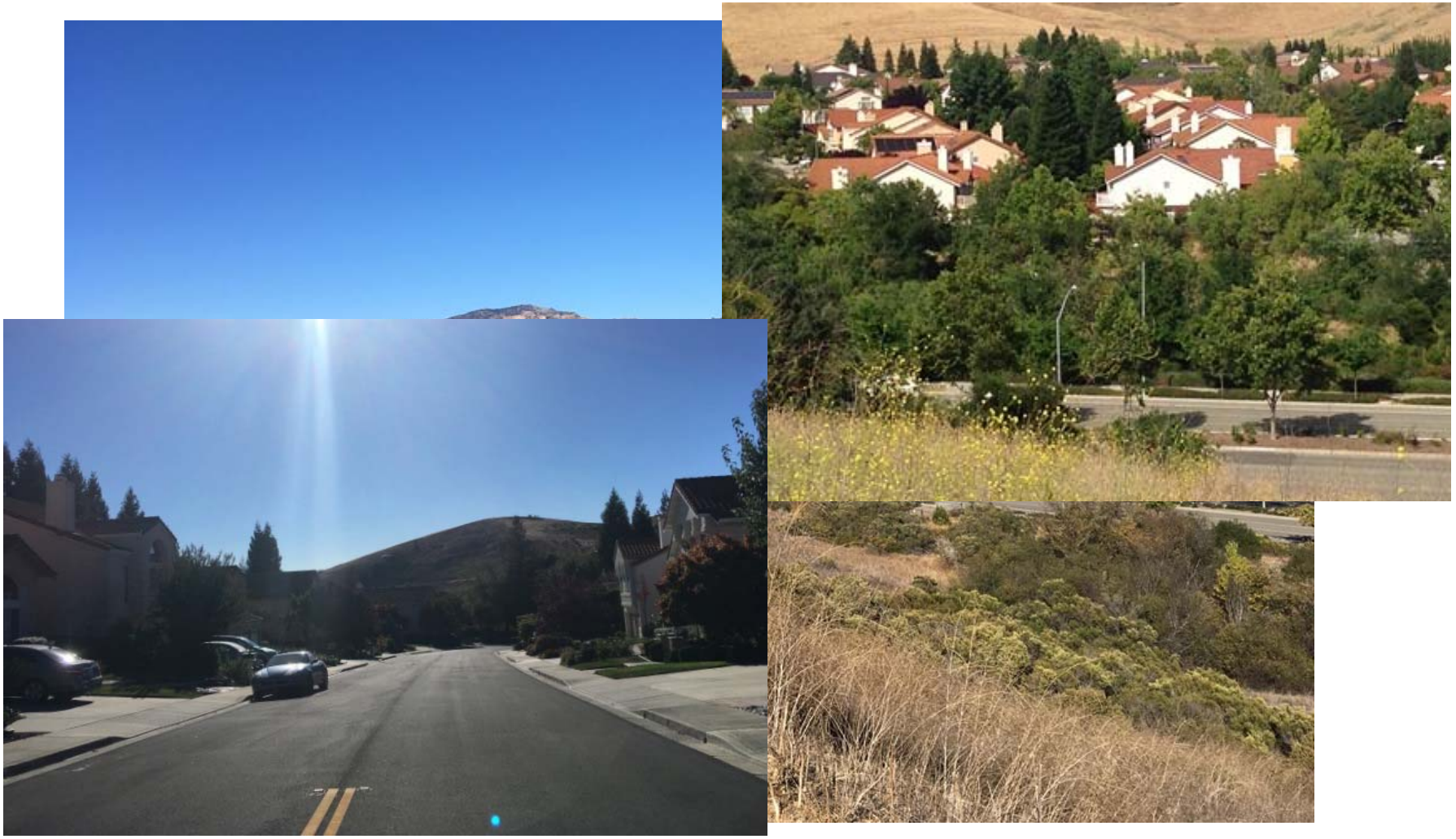
Siting: Alternative Site A4



Appearance: Burying Pump Station

- Current position: above-ground pump stations
- Challenges of buried pump stations:
  - Inability to readily access equipment
  - Potential for drainage issues and pump station filling with water, leading to equipment failure
  - Confined space presents hazard for workers
  - Longer construction timeframe and truck impacts
- Partial burial
  - Pending additional geotechnical investigation
  - Potential to decrease overall height (21 feet at-grade)

Appearance: A2 on Dougherty Road



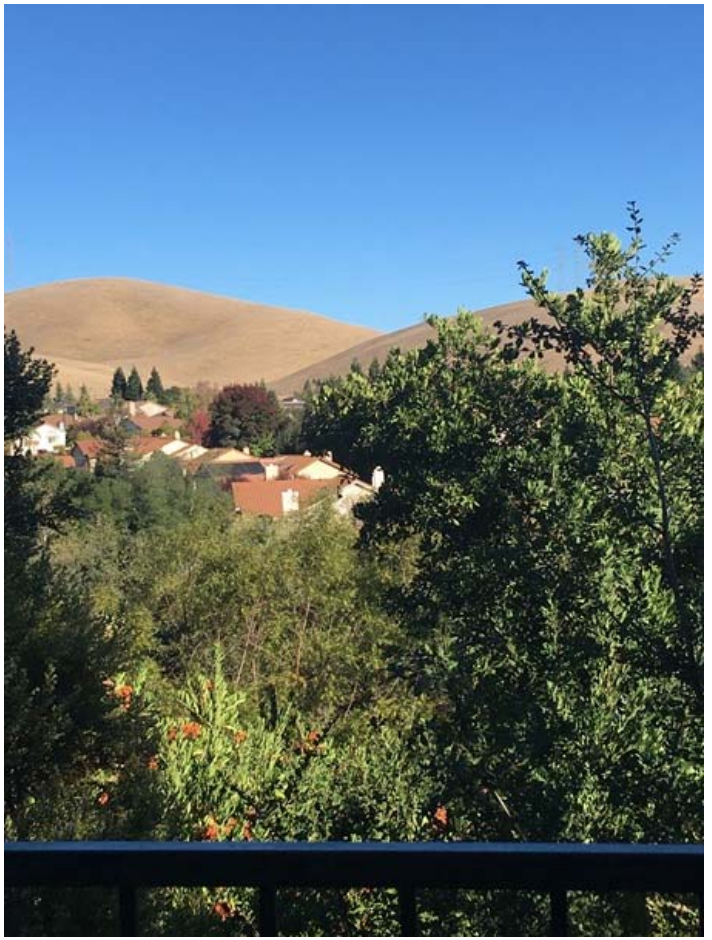
Dougherty Road is downhill from neighborhoods

Appearance: A2 View from Alta Mira

Views from Alta Mira walking path

Appearance: A2 View from Miravilla

View from nearby trail



View from closest Miravilla home

Appearance: Conceptual Rendering

- Building
- Electrical equipment
- Parking
- Fencing
- Retaining wall (Site A2)
- Landscaping

Conceptual rendering shows preferred site A2

Appearance: Architectural Style

Architectural style template: fountains at Dougherty & Crow Canyon, Bridges GC

Pump station at Valley View Park uses similar architectural style

Appearance: Materials

STUCCO WALL CLADDING

TERRA COTTA ROOF TILE

GLASS BLOCK WINDOWS

Appearance: Fence

- No-climb security fence
- Aesthetic design
- Larger (3”) horizontal gaps
  - Easier to see past at a distance
- Minimize fencing by using front of building as perimeter
- Consideration of further minimizing fence during design process

Appearance: Antenna

- 30 feet
- 9 feet above pump station roof, if the station is built fully at-grade

Appearance: Landscaping

- Re-plant similar trees behind pump station

Trees near A2 site

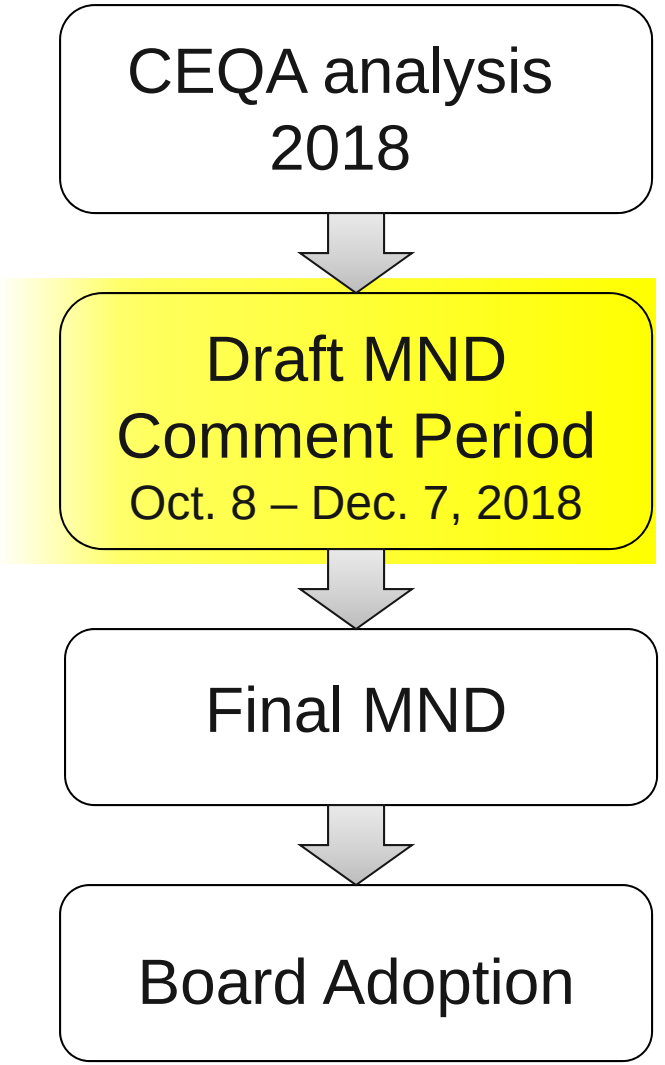
Appearance: Landscaping

Evergreen shrub e.g. Red Tip Photinia

Crepe Myrtle

CEQA Analysis

- Mitigated Negative Declaration (MND)
- EBMUD Standard Practices and Procedures
- Mitigation Monitoring and Reporting Plan



Next Steps

- Comment period **Oct. 8 – Dec. 7**
- EBMUD Board consideration:
  Following completion of CEQA process
- Estimated
  Design:
  2020-2021
- Estimated Construction:
  2022-2024

Comment Period

- Full Mitigated Negative Declaration available at:
  - ebmud.com/r3000
  - **EBMUD Administrative Building** – 375 11th Street, Oakland
  - **San Ramon Library** – 100 Montgomery Street, San Ramon
- Comment period: October 8 – December 7
- Submit comments by 4:30 on December 7
- Submit written comments:
  - r3000@ebmud.com
  - Ben Glickstein
    375 11th Street MS #407
    Oakland, CA 94607
  - Comment cards: give contact information

Contact

EBMUD

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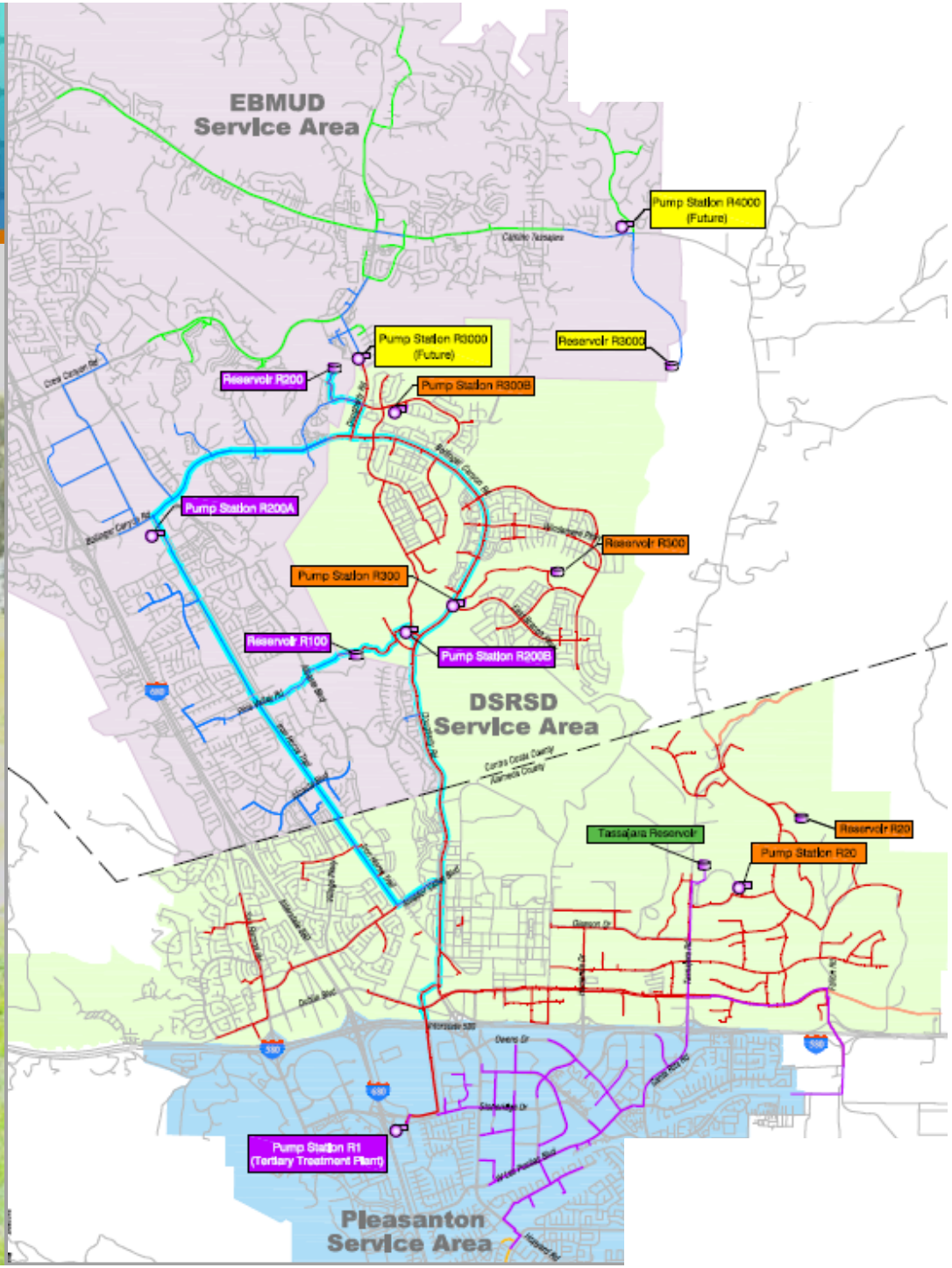
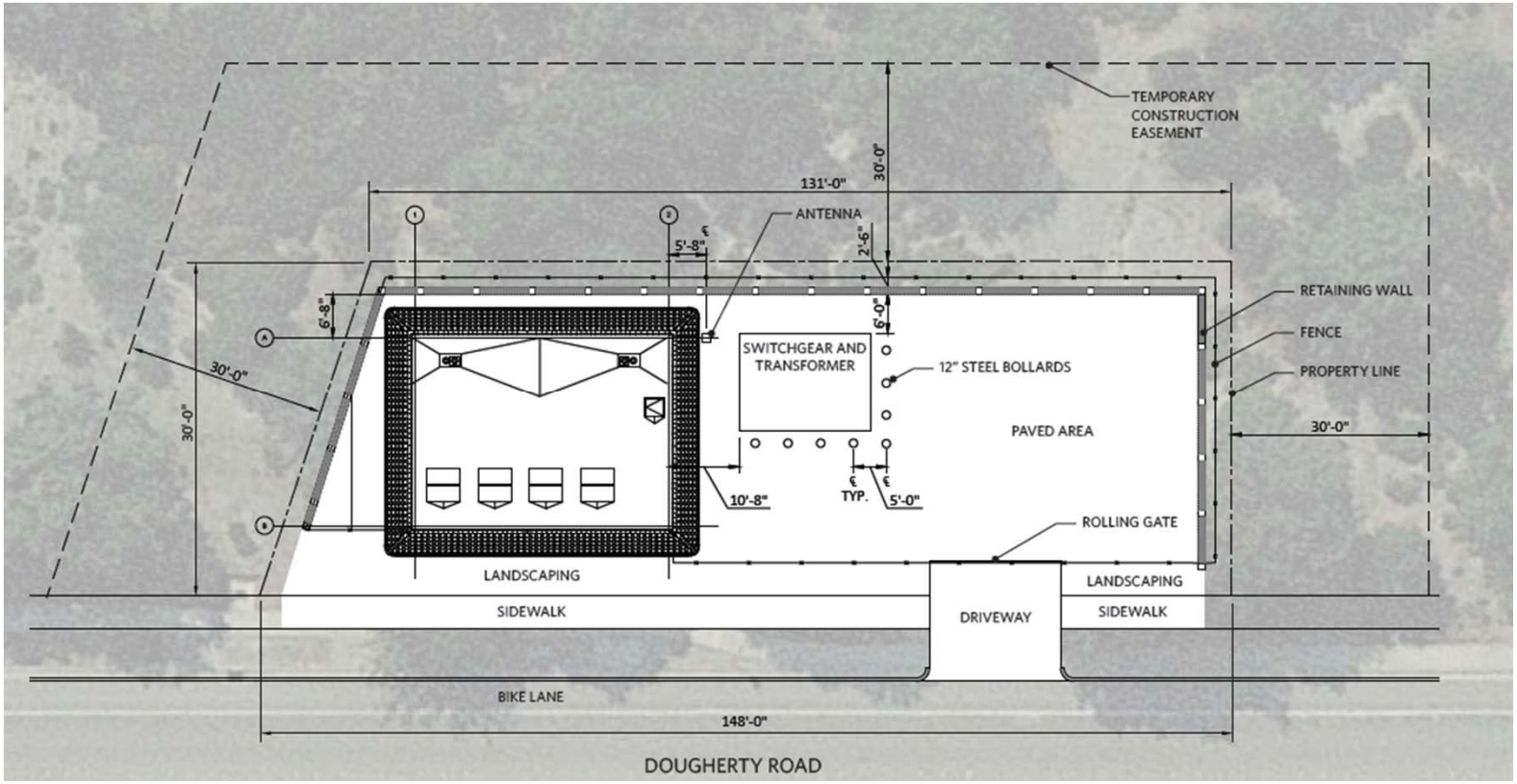
Ben Glickstein, Community Affairs Representative
510-287-1631
ben.glickstein@ebmud.com

Reena Thomas, Associate Civil Engineer
510-287-0593
reena.thomas@ebmud.com

San Ramon Valley Recycled Water



Site Plan


TEMPORARY CONSTRUCTION EASEMENT
131'-0"
30'-0"
ANTENNA
5'-8"
2'-6"
6'-8"
6'-0"
RETAINING WALL
FENCE
PROPERTY LINE
SWITCHGEAR AND TRANSFORMER
12" STEEL BOLLARDS
PAVED AREA
30'-0"
30'-0"
30'-0"
10'-8"
TYP.
5'-0"
ROLLING GATE
LANDSCAPING
SIDEWALK
DRIVEWAY
LANDSCAPING
SIDEWALK
BIKE LANE
148'-0"
DOUGHERTY ROAD