

Secondary Treatment and Dewatering Project Design

CITY COUNCIL MEETING

August 22, 2017



Sunnyvale

Plant Site and Background



- Built in the 50's – 70's
- 440 acres of ponds
- 16.5 acres of land
- 14 MGD (avg. dry weather flow)
- 29.5 MGD (permitted)

Prior Council Communication

- Award Master Plan and Primary Treatment Facility Design Contract (5/7/13)
- Award Program Management Contract & Renewal (3/25/14 & 3/28/17)
- Council Study Session (6/24/14)
- Award Construction Management Contract (5/5/15)
- Adopt MND for the Primary Treatment Facility (5/5/15)
- Gap Project Awards (2011-2016)
- Council Study Session (8/25/15)
- Award Construction Contract for Primary Treatment Facility
 - Package 1 (5/7/16)
 - Package 2 (5/23/17)
- Certify the PEIR and Approve the Master Plan (8/23/16)
- Council Study Session (3/7/17)
- Award Caribbean Drive Parking & Trail Access Design (3/7/17)
- Award Condition Assessment Design Contract (4/25/17)

Package 1 Construction



Secondary Treatment and Dewatering

- Combine the design of the following program elements:
 - Secondary Treatment Improvements – Stage 1
 - Maintenance Building
 - Thickening and Dewatering Facility – Stage 1
 - Digester Pump Station & Piping Upgrades
- Construction may have more than one bid package
- Project Budget = \$168M

Project Locations & Relationships



Procurement Timeline

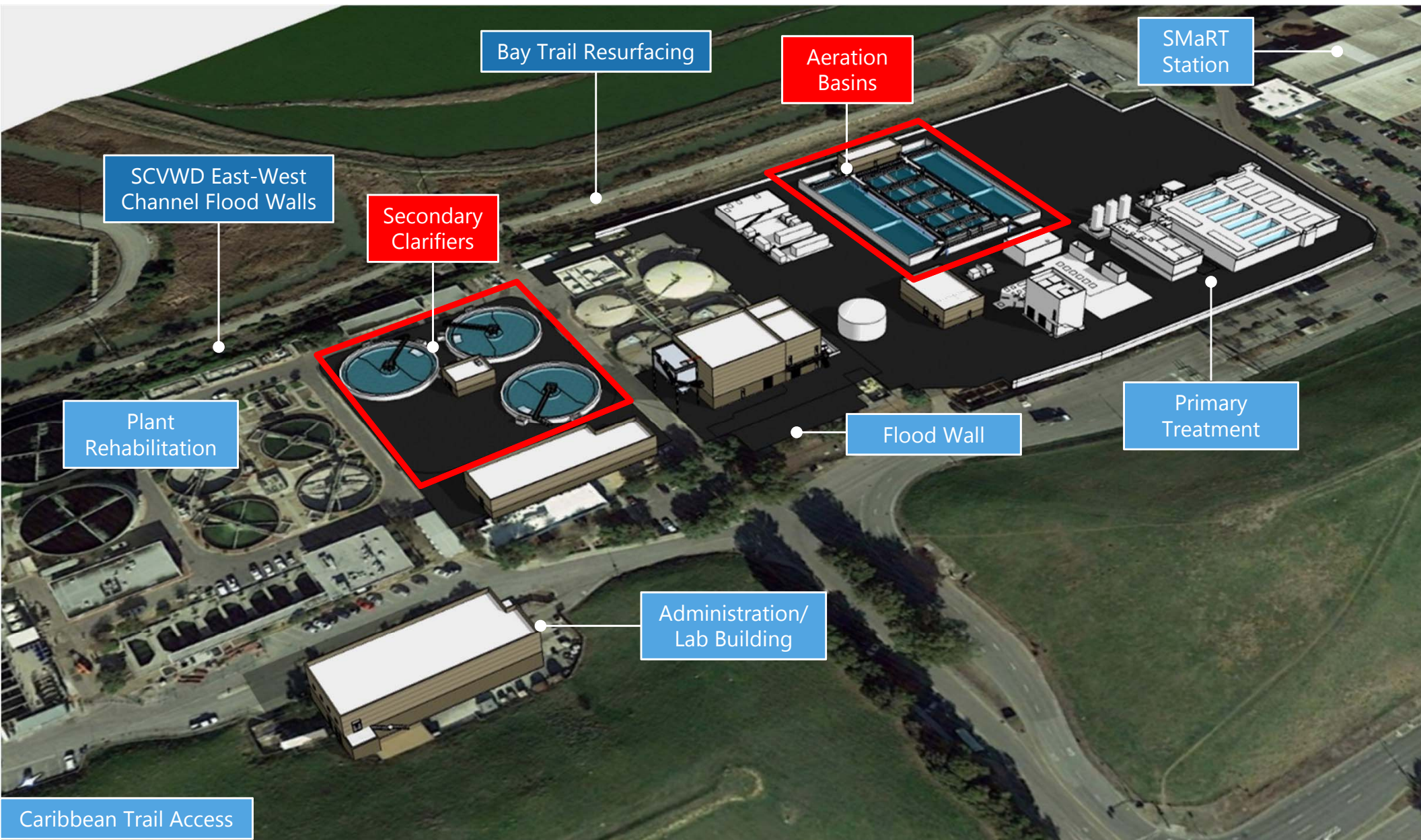
RFP Advertised	02/09/17
2 proposals received	04/12/17
Presentations	05/12/17
Negotiations	06/01 – 07/13/17

Carollo /CH2M Qualifications

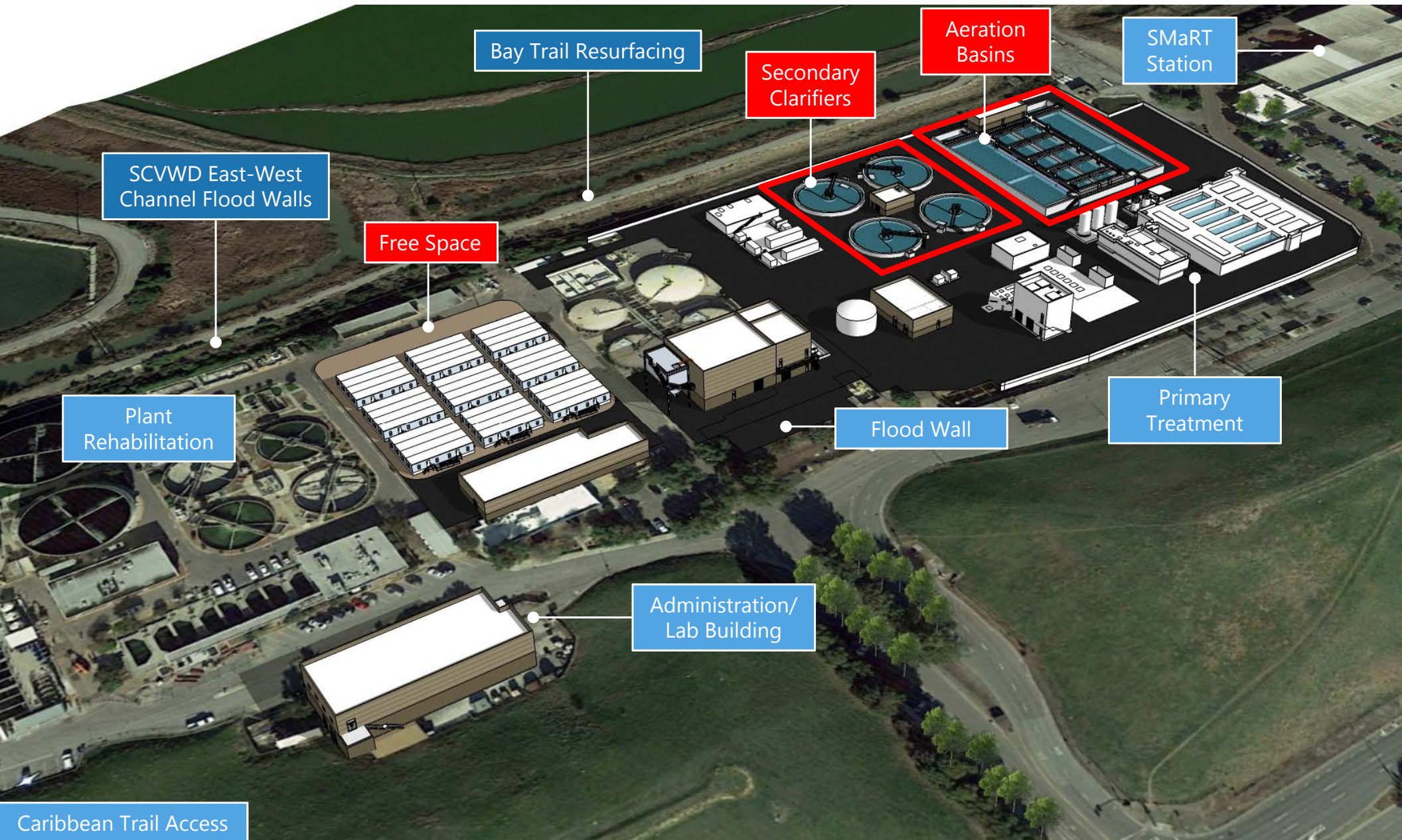
- Highly experienced, qualified staff
- Leverage technology to improve treatment and cost efficiency
- Depth of technical expertise
- Strong QA/QC approach



Master Plan Site Layout



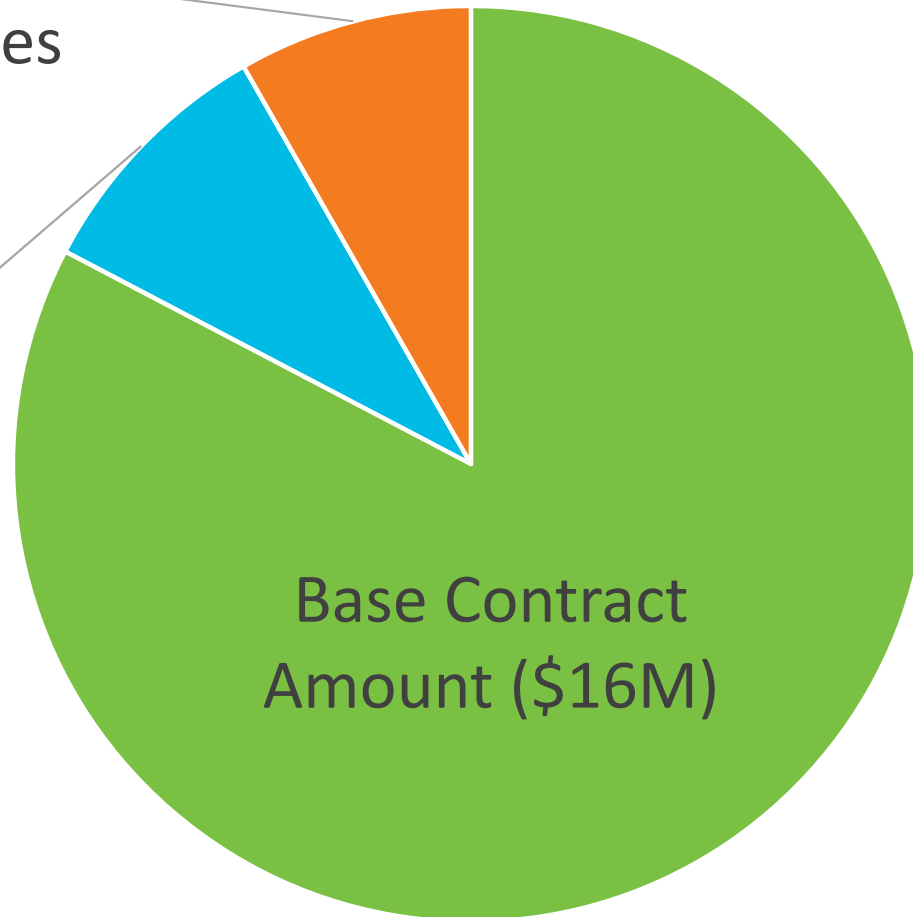
Alternate Site Layout



Cost Breakdown

10% Contingency
on Base Services
(\$1.6M)

Optional
Services
(\$1.75M)



TOTAL \$19.3M

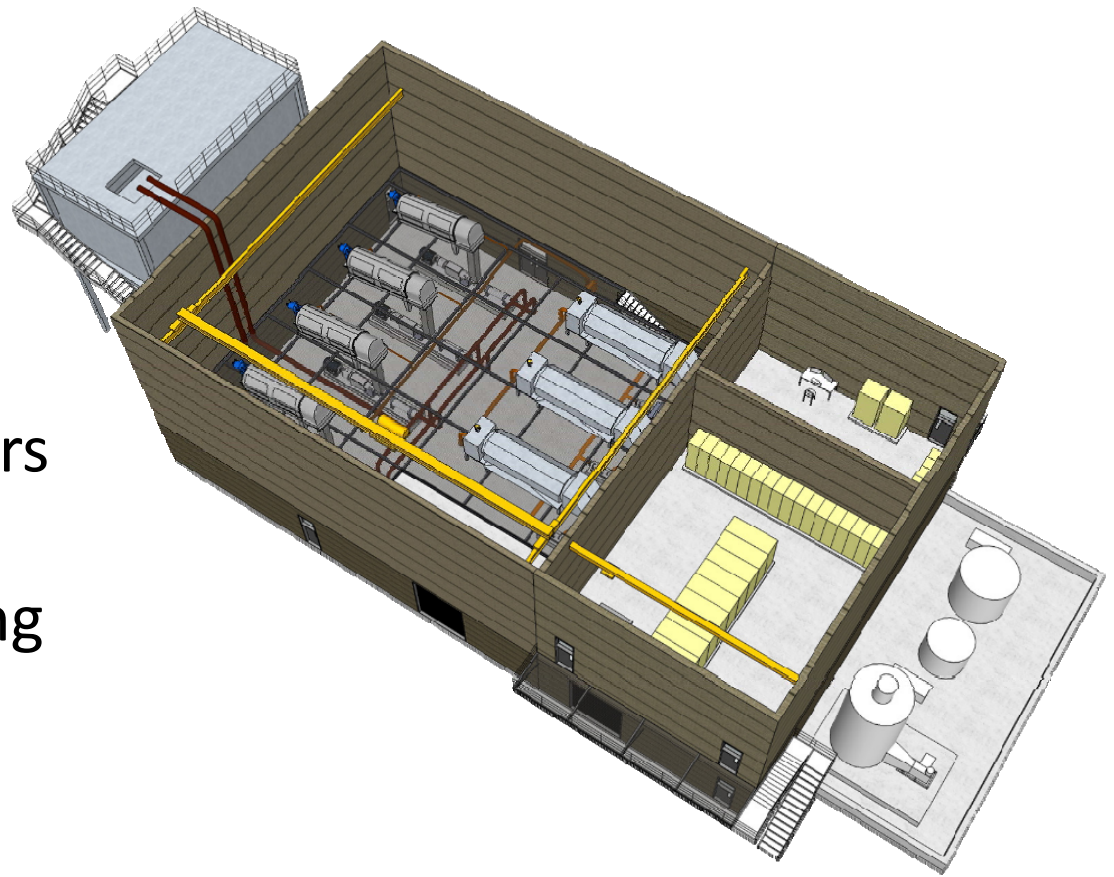
Next Steps

Current

- Award to Carollo Engineers
- Begin Secondary Treatment and Dewatering Design

Upcoming SCWP

- Award Admin & Lab Building Design (Sept. 12)
- Complete Condition Assessment and continue design on Caribbean Drive
- Continue Package 2 construction



Secondary Treatment and Dewatering Project Design

CITY COUNCIL MEETING

August 22, 2017



Sunnyvale