EAST BAY MUNICIPAL UTILITY DISTRICT

Central Reservoir Replacement Project



Community Meeting #1 September 28, 2017

Project Team



- David Rehnstrom, P.E., Division Manager
- Bill Maggiore, P.E., Senior Engineer
- Aaron Hope, P.E., Project Manager
- Laura Luong, Community Affairs
- \cdot Consultants

ESA, Specialty CEQA Consultants

Muller & Caulfield, Architecture

Dillingham Associates, Landscape Architecture



- Schedule
- Background
- Project Purpose & Need
- Site Planning
- Conceptual Landscape Plans
- Q&A

Central Reservoir Replacement Schedule



Background on EBMUD and Central Reservoir

EBMUD Water System





EBMUD Water System





- EBMUD's largest distribution reservoir
- 153 Million Gallons
- 27 acre site
- Provides emergency and operational storage to about 52,000 of the District's 382,000 meters
 - Open cut reservoir





Central Reservoir Construction

- Built in 1910 by the People's Water Company
- Originally constructed to distribute water from Lake Chabot



BMUD





Central Reservoir Modifications

- Major modifications in the early 1960s
- North embankment (auxiliary dam) modified to make room for 1580.



• Roof in 1961





Central Reservoir Modifications

- Liner in 1961
- Encapsulate Roof in 2004





Project Purpose and Need

Why are we Replacing the Reservoir?

- The reservoir has reached the end of its useful life
- Reduce water loss through the liner
- Resize to meet existing & future demands
- Improve water distribution system

Improve Water Distribution









Site Planning









- One, Two and Three Tank Configuration
- Eleven construction methods to strengthen soil beneath existing reservoir and new fill pad
- Three different tank construction methods/materials
- Four different roof types



Three concrete tanks

- Three tanks has fewest truck trips
- Concrete has smallest visual impact
- · Avoid recurring "sandblasting"
- Most cost effective



























1580



25th Ave E. 29th St Central Reservoir Recreation Area

Ardley Ave

Conceptual Landscape Plans

- Reed Dillingham, ASLA, Dillingham Associates Landscape Architects
- Rosemary Muller, FAIA, Muller & Caulfield Architects

Conceptual Landscape Plans





Viewpoint 1: Ardley Near Bridge





Viewpoint 2: Ardley at E 32nd

Viewpoint 3: Ardley and 23rd

Viewpoint 4: 25th and E. 29th

Viewpoint 5: Redwood Day School

Concept Plan 1: Berming

Concept Plan 2: Planting

Concept Plan 3: Trellis

Plant Palette - Trees

Big-leaf Maple

California Buckeye

Elderberry

Ginkgo

Canyon Live Oak

Valley Oak

Coast Live Oak

Plant Palette - Shrubs

Edmunds Manzanita

Pajaro Manzanita

Wayside Manzanita

McMinn Manzanita

Manzanita

Skylark Ceanothus

Trellis

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For comments or questions please email:

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