



# Civic Design Review Phase 1

## Westside Recycled Water Project

Oceanside WPCP, San Francisco

April 21, 2014

# Civic Design Review Phase 1

## Westside Recycled Water Project

### Project Objective:

The San Francisco Westside Recycled Water Project will design and construct treatment and distribution system facilities required to produce and deliver recycled water to serve irrigation and other non-potable uses in the western area of the City. The use of recycled water will offset the current use of groundwater, and domestic supplies for non-drinking use. The project will serve Golden Gate Park, Lincoln Park Golf Course, and Presidio Trust Properties.

### Design Constraints:

The new recycled water facility must fit into the existing Oceanside Water Treatment Plant. Impact to the existing water treatment facility is to be minimized. The existing plant is contained within 45' high retaining walls that visually screen the plant from the surroundings. These retaining walls will limit access to service and replace equipment. Equipment replacement on the 2nd floor will require the use of a crane from a second story exterior landing.



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### Building Solution:

A 26,700 sq. ft. two story structure located at the northeast corner of the existing administration building. The second floor will be aligned with the existing promenade. A north/south service corridor will be used to access equipment. The west elevation will consist of a removable wall system for access to the microfiltration and reverse osmosis units.

### Building/Landscape Design Objectives:

Transparency in Water Conservation Processes: The new structure will emerge from the existing promenade and culminate into a westward translucent wall that silhouettes water recycling mechanics. Removable light transmission panels will be provided in the west elevation for the replacement of reverse osmosis and microfiltration skids. Building design and aesthetics will be contemporary in harmony with the existing treatment Plant. The new structures will be reinforced concrete and glass. Material will be corrosive resistant. A green roof will enhance LEED aspects of the project and fit into the existing OWPCP. Water treatment educational display panels can be provided at the site for tours.







**SAN FRANCISCO ZOO**

**PACIFIC OCEAN**

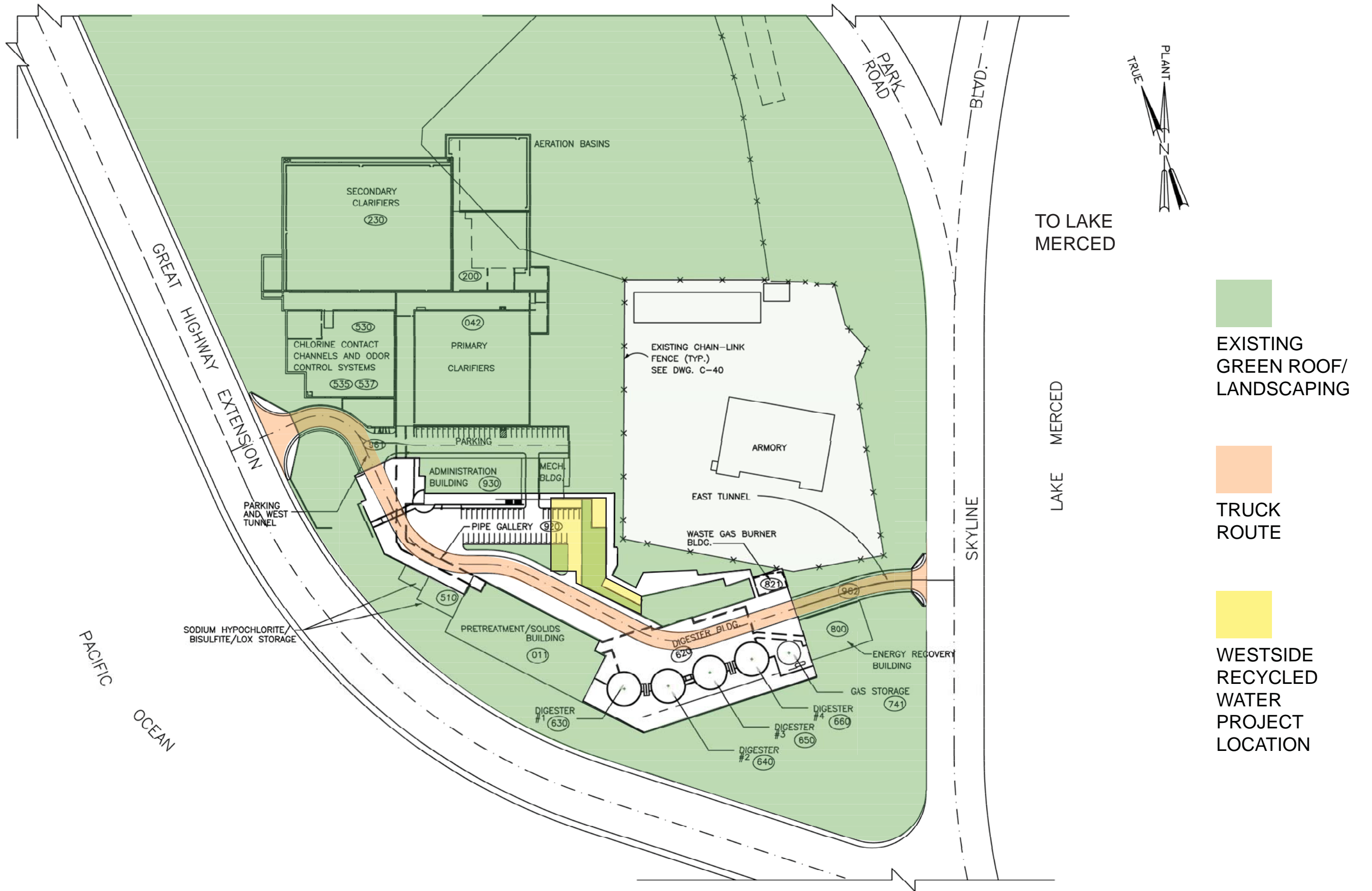
**WESTSIDE RECYCLED WATER PROJECT**

**LAKE MERCED**

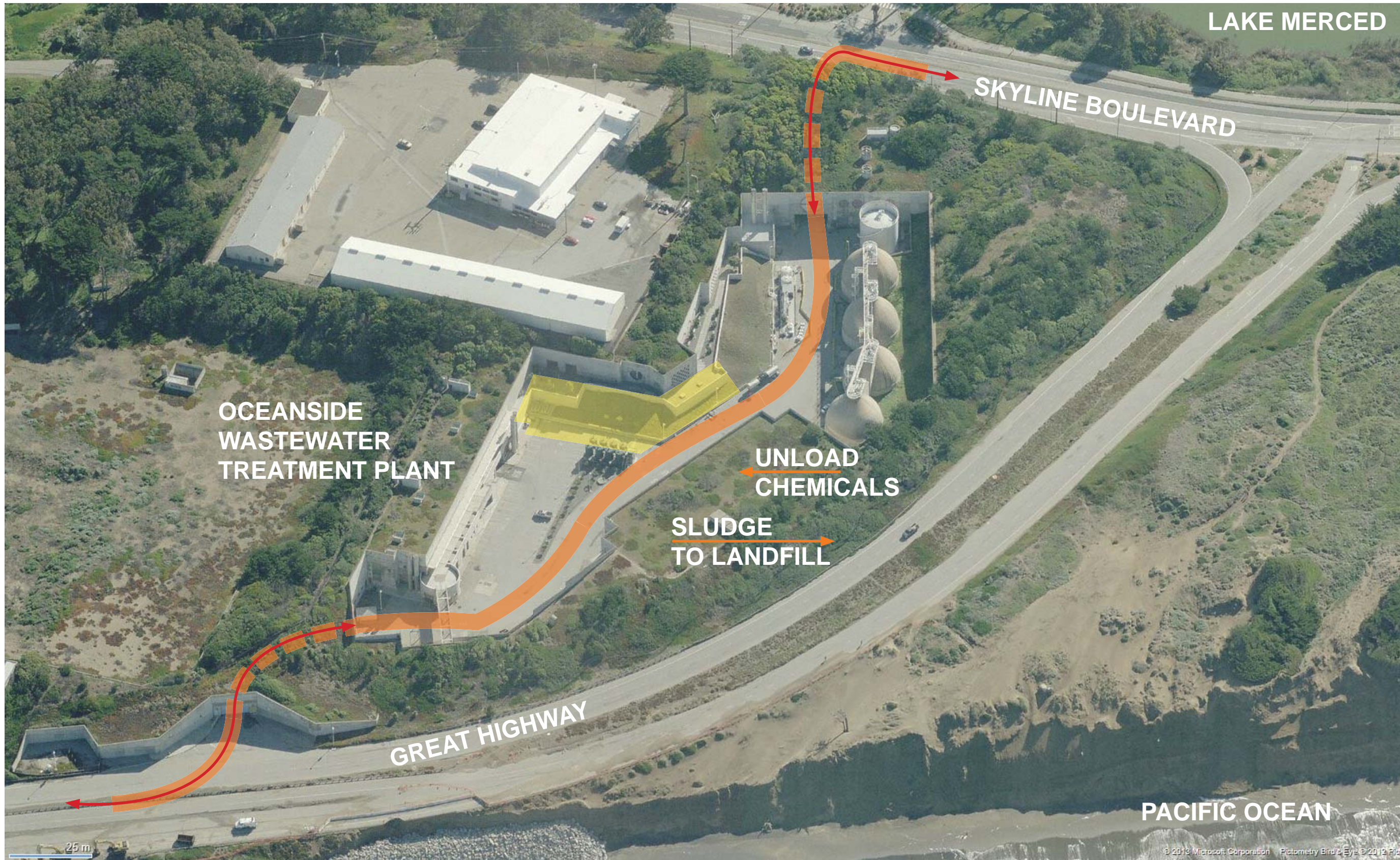


**BUILDING DESIGN & CONSTRUCTION**  
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ARCHITECTURE

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TRUCK ROUTE

ENTRY & EXIT

WESTSIDE RECYCLED WATER PROJECT LOCATION



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EXISTING SITE CONDITIONS



PEDESTRIAN WALKWAY CANYON



EXISTING TRAILERS AND BIOFUEL TANKS



SCALE OF RETAINING WALL AT ELEVATED PEDESTRIAN WALKWAY



EXISTING UNDERGROUND CONTROL ROOM





LOOKING EAST TOWARDS LAKE MERCED ENTRANCE/EXIT



PEDESTRIAN WALKWAY AT ADMIN. BUILDING



DIGESTERS



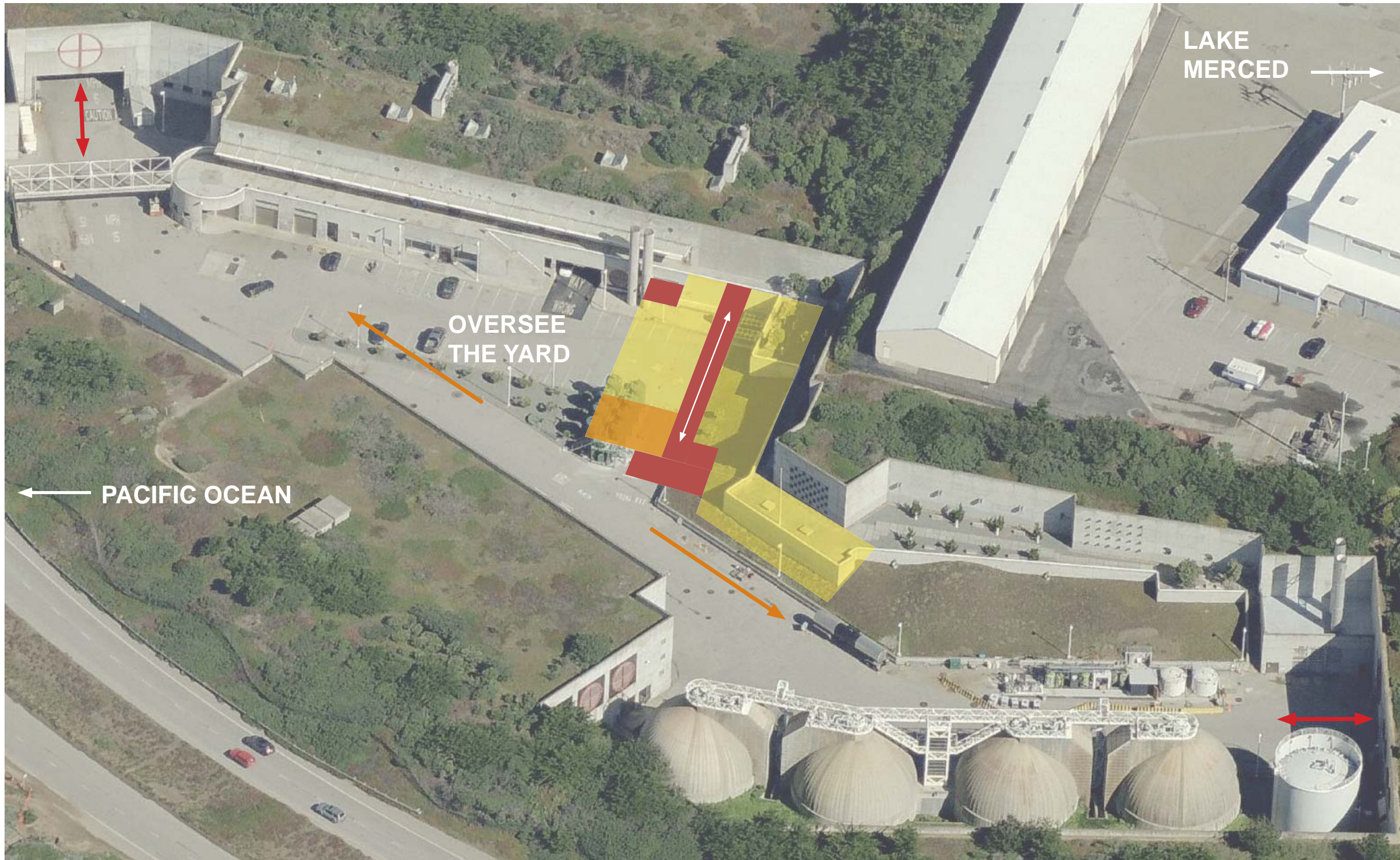
EXISTING MECHANICAL BLDG. SUPPLY & EXHAUST



PEDESTRIAN WALKWAY CANYON







MECHANICAL EQUIPMENT

CIRCULATION

CONTROL ROOM

VIEWS FROM CONTROL ROOM

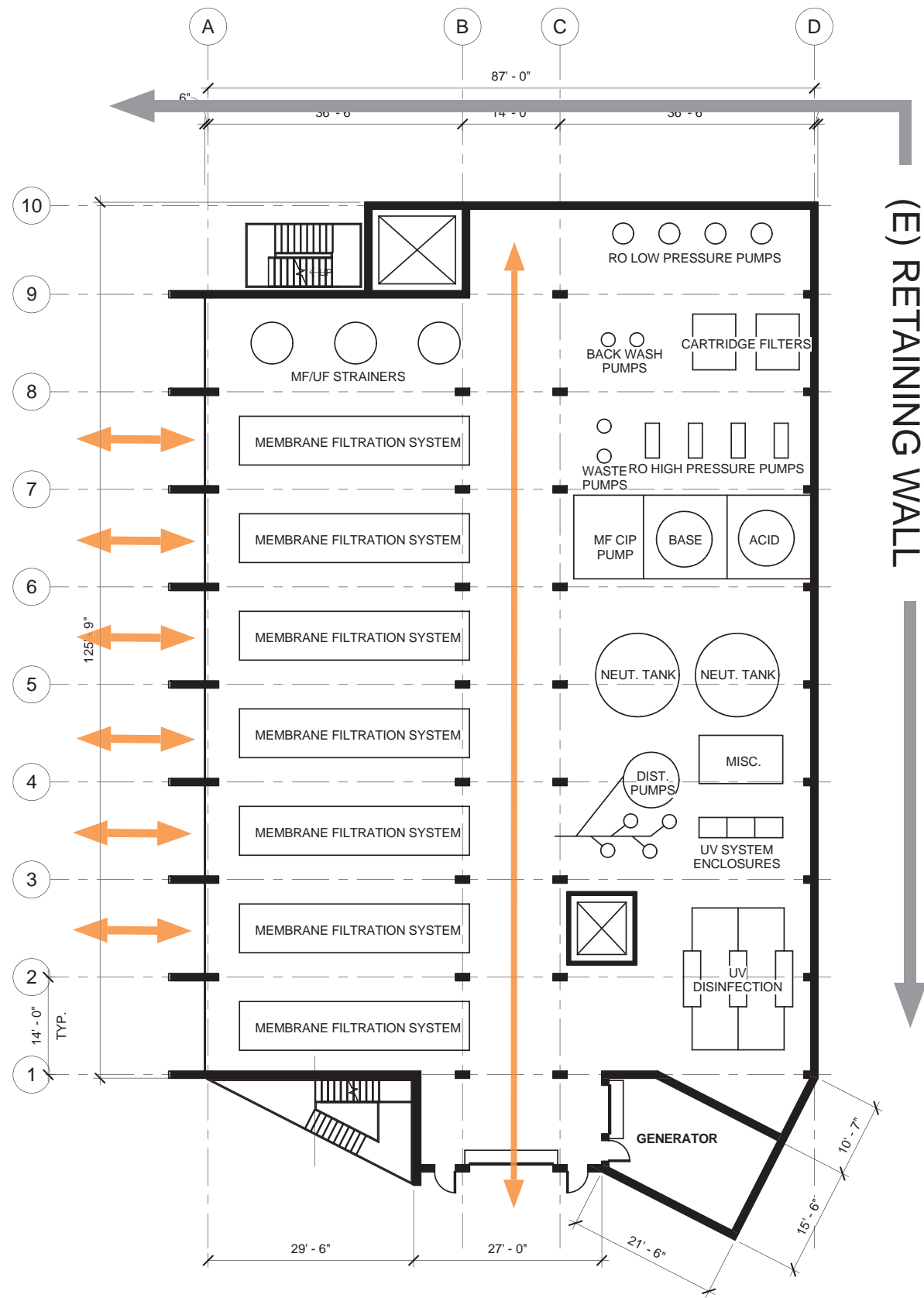
ENTRY & EXIT



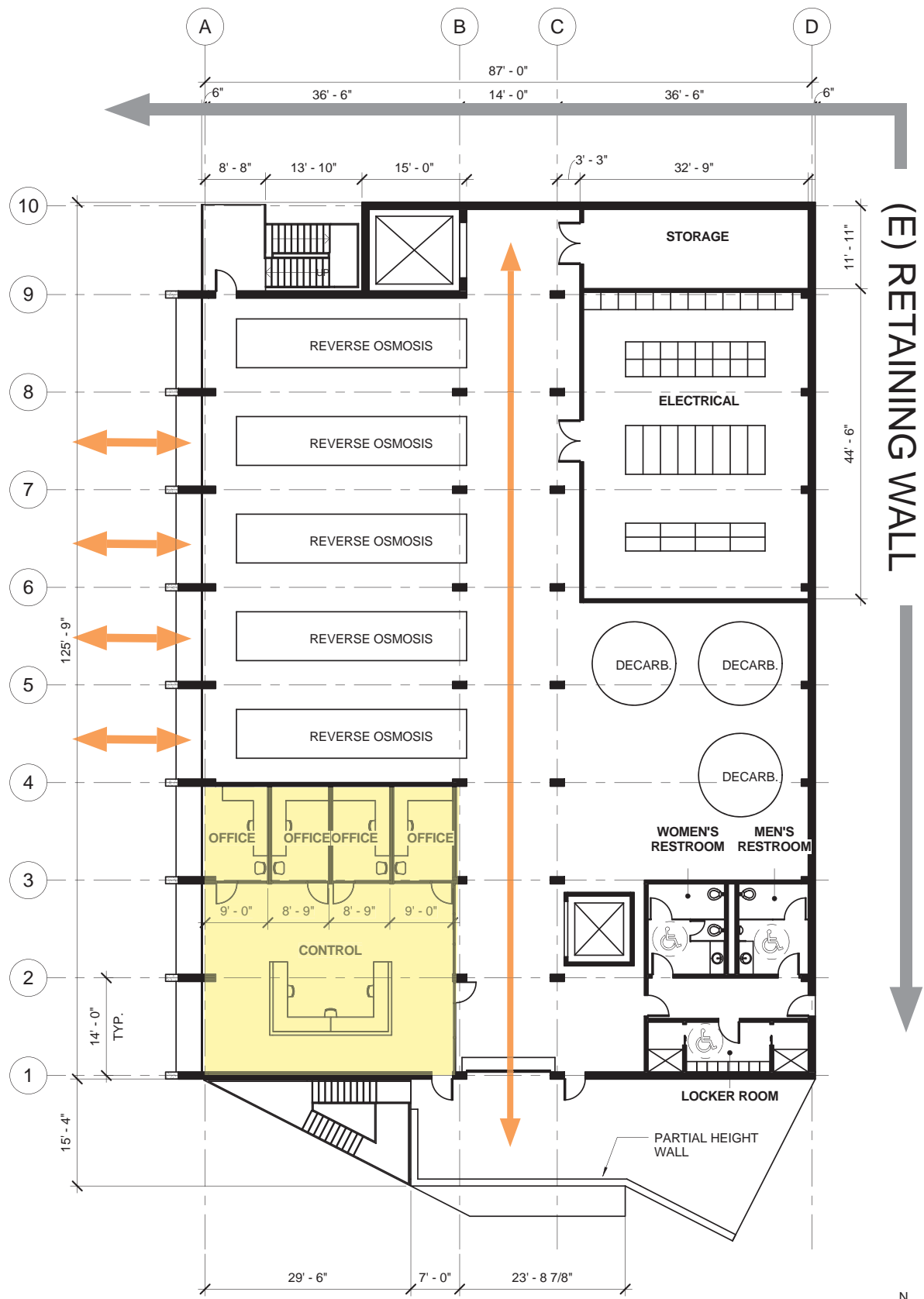


SITE PLAN





1 LEVEL 1  
3/32" = 1'-0"



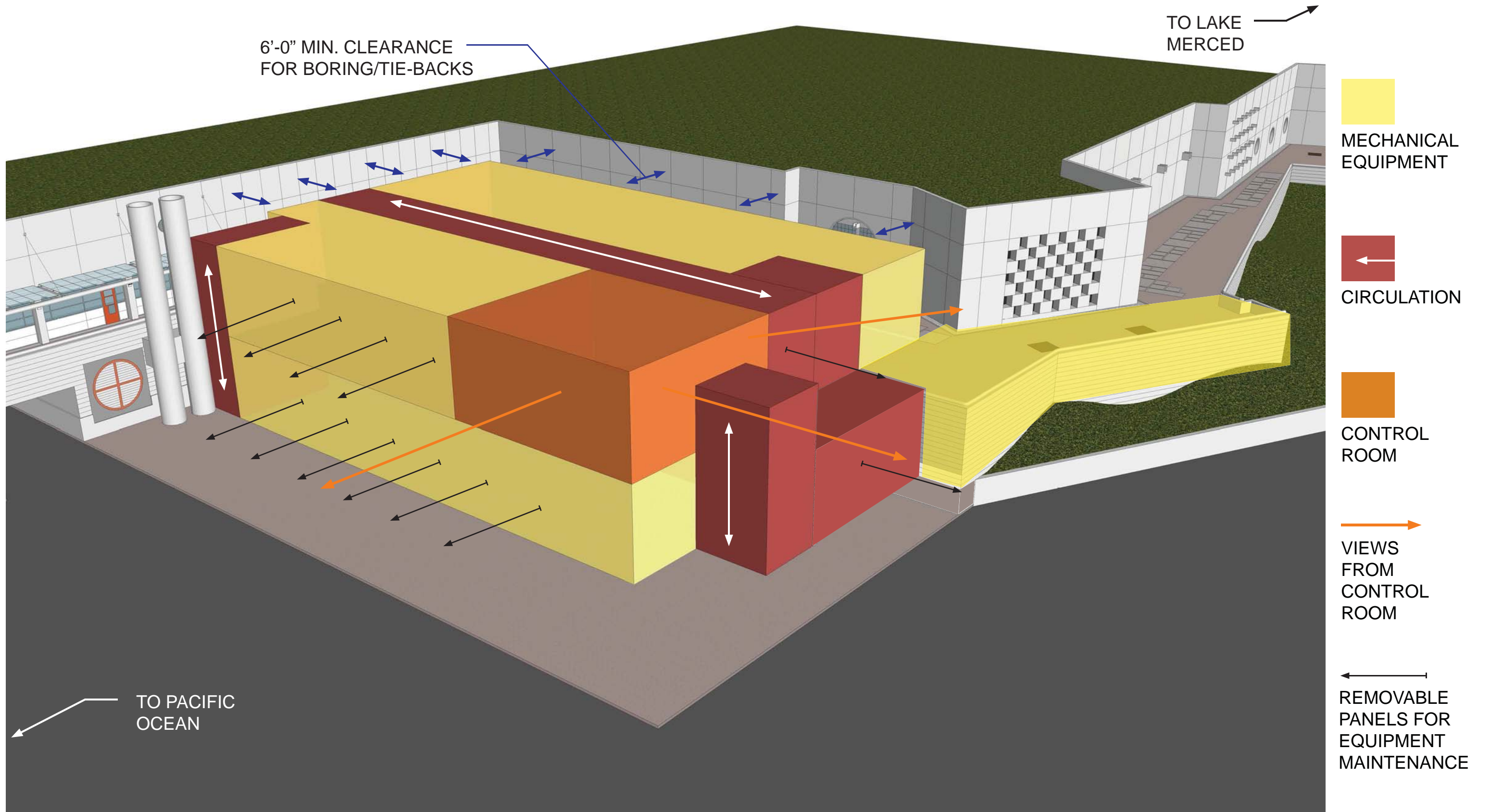
2 LEVEL 2  
3/32" = 1'-0"

← EXISTING RETAINING WALL

↔ CLEARANCE PATH FOR EQUIPMENT REMOVAL/ MINTENANCE

■ CONTROL ROOM







**ITERATION 6.1c.6**



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ITERATION 6.1c.6



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# ITERATION 6.1c.6

West Elevation Windows Recessed  
With No Horizontal & Vertical Sun Control



WEST FACADE



SOUTH FACADE



AERIAL VIEW





ITERATION 6.1c.7



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ITERATION 6.1c.7



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# ITERATION 6.1c.7

Full Glazing on West Elevation  
Horizontal & Vertical Sun Control on West Elevation



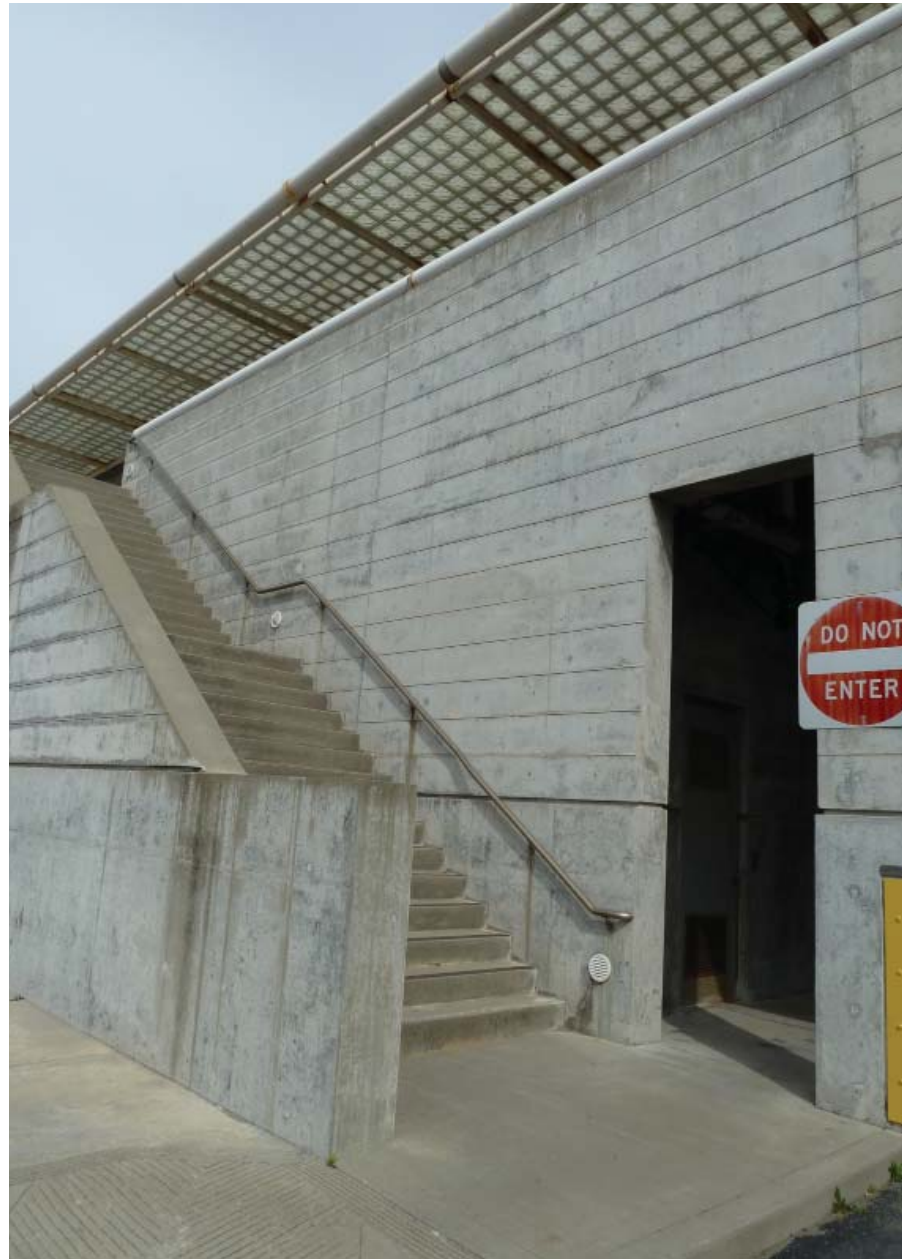
WEST FACADE



AERIAL VIEW



# DESIGN & MATERIAL PALETTE



CONCRETE MATERIAL FINISH

AVOID METAL DUE TO EXTREMELY CORROSIVE ENVIRONMENT



RECESSED / PUNCHED OPENINGS



REMOVABLE GLASS PANELS  
EXISTING GLASS BLOCKS / CHANNEL GLASS



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