

WESTSIDE PUMP STATION
RELIABILITY IMPROVEMENTS
CIVIC DESIGN REVIEW - PHASE 1 - OCTOBER 17, 2016

CITY & COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION












PROJECT BACKGROUND AND OBJECTIVE

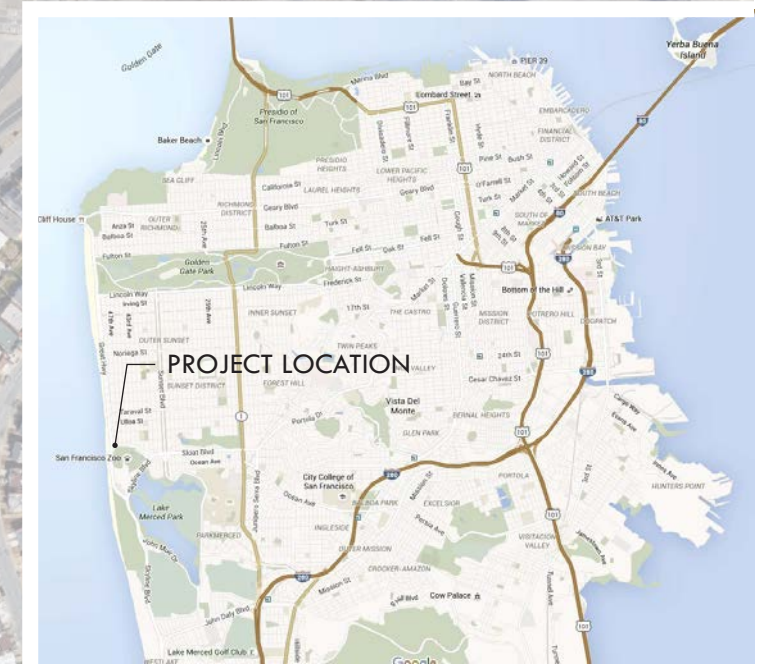
The Westside Pump Station has been in service for over 30 years since 1985. It is the SFPUC's main wastewater pump station servicing the west side of the City of San Francisco therefore its continued service and reliability is critical. The objective of the Westside Pump Station Reliability Improvements Project is to increase reliability of its operations to comply with the current maximum permitted level of Combined Sewage Discharges.

SCOPE OF WORK

- Construction of a below-grade channel and a vertical shaft with connection to existing facility
- Renovation/reconstruction of a portion of the existing pump station to accommodate construction of new channel/shaft and installation of new mechanical equipment
- Construction of a new electrical building to provide a redundant power feed and increase the power capacity
- Providing a new driveway for improved access and other site improvements

-  PUMP STATION
-  COMBINED SEWER DISCHARGE (CSD)
-  WATERSHED INPUT
-  FORCE MAIN / PRESSURIZED FLOW
-  TUNNEL
-  TRANSPORT / STORAGE STRUCTURE
-  OCEANSIDE WATER POLLUTION CONTROL PLANT
- SWOO SOUTHWEST OCEAN OUTFALL

Project Background and Objective



Project Location

SLOAT BOULEVARD LOOKING WEST

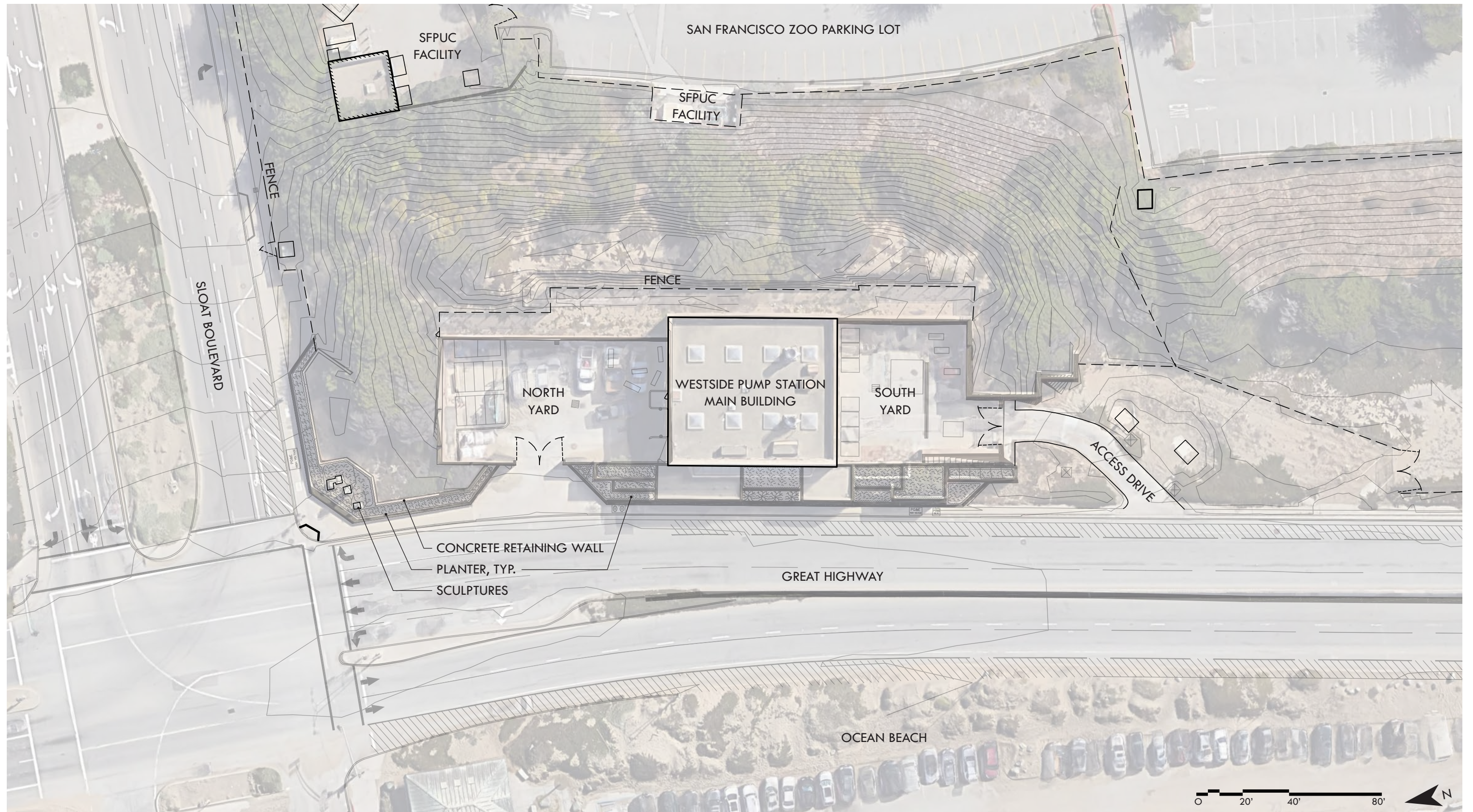


SLOAT BOULEVARD LOOKING EAST

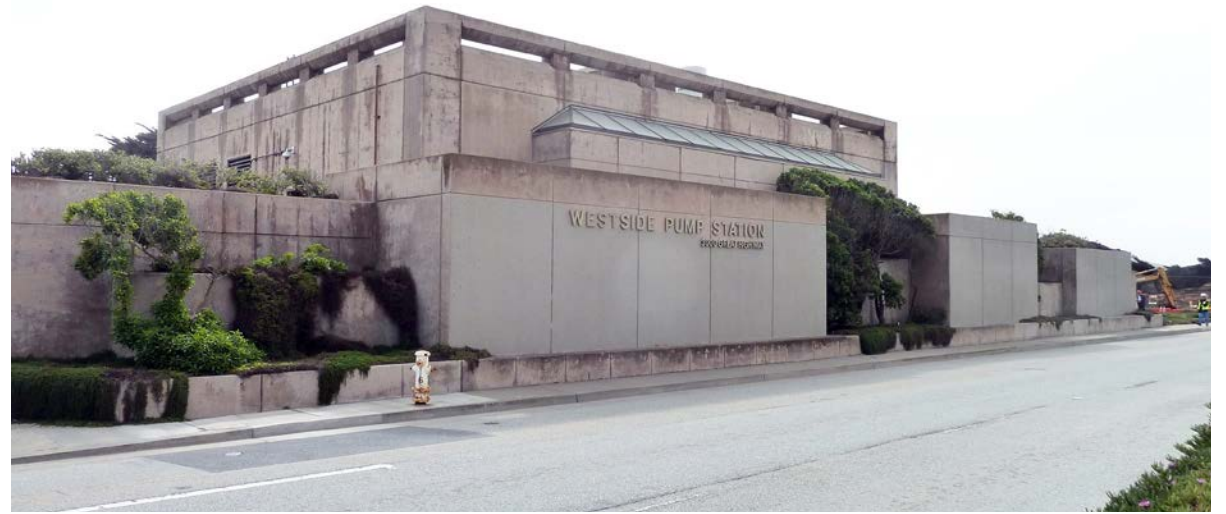
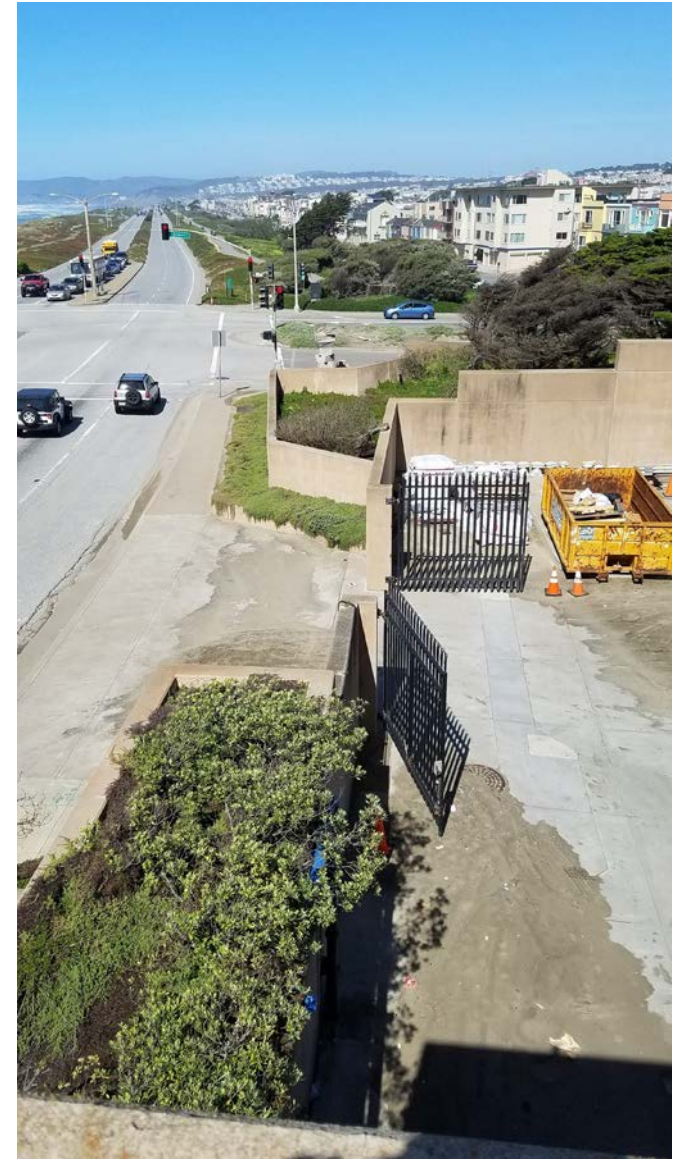


Street Views

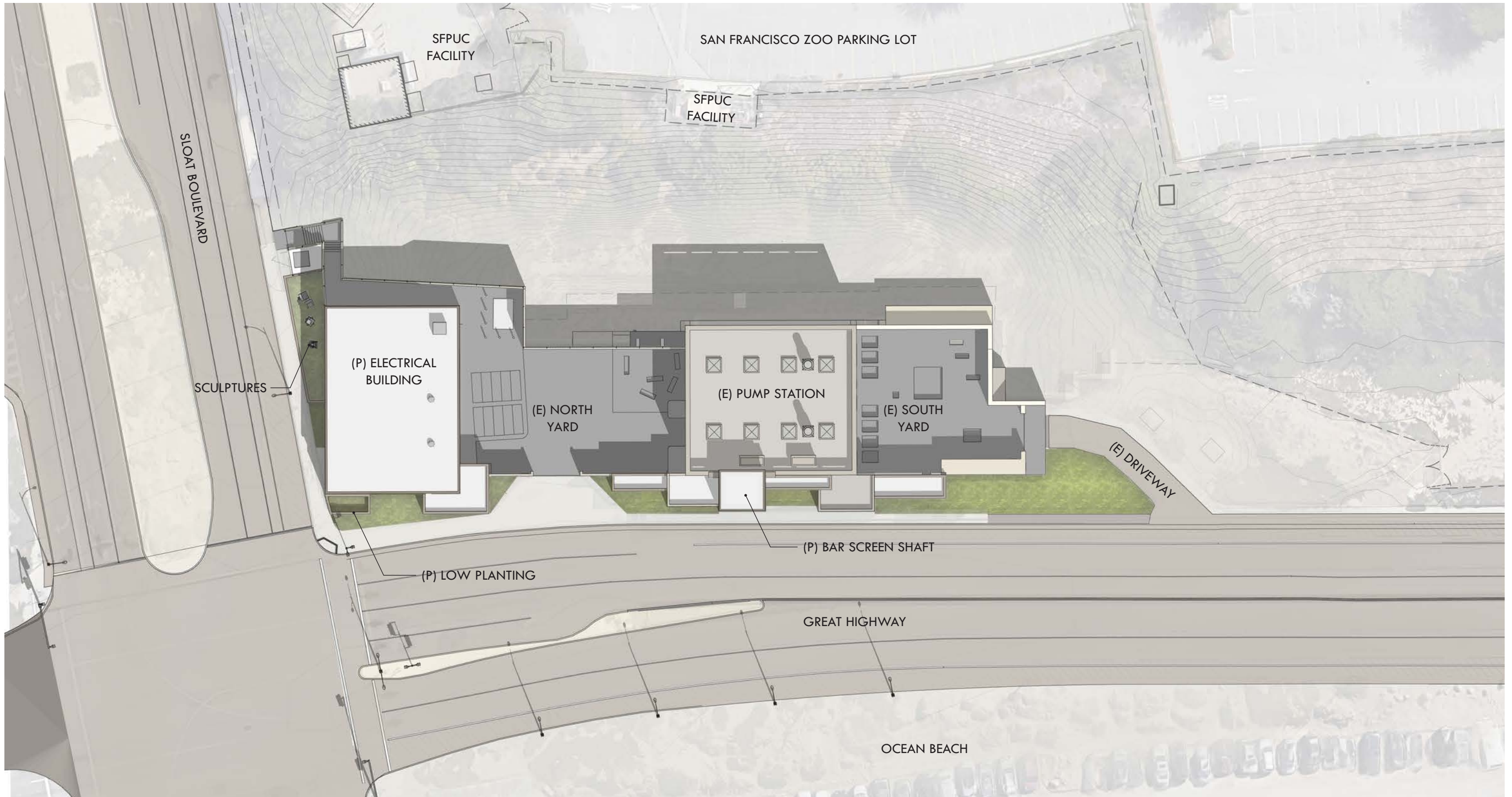




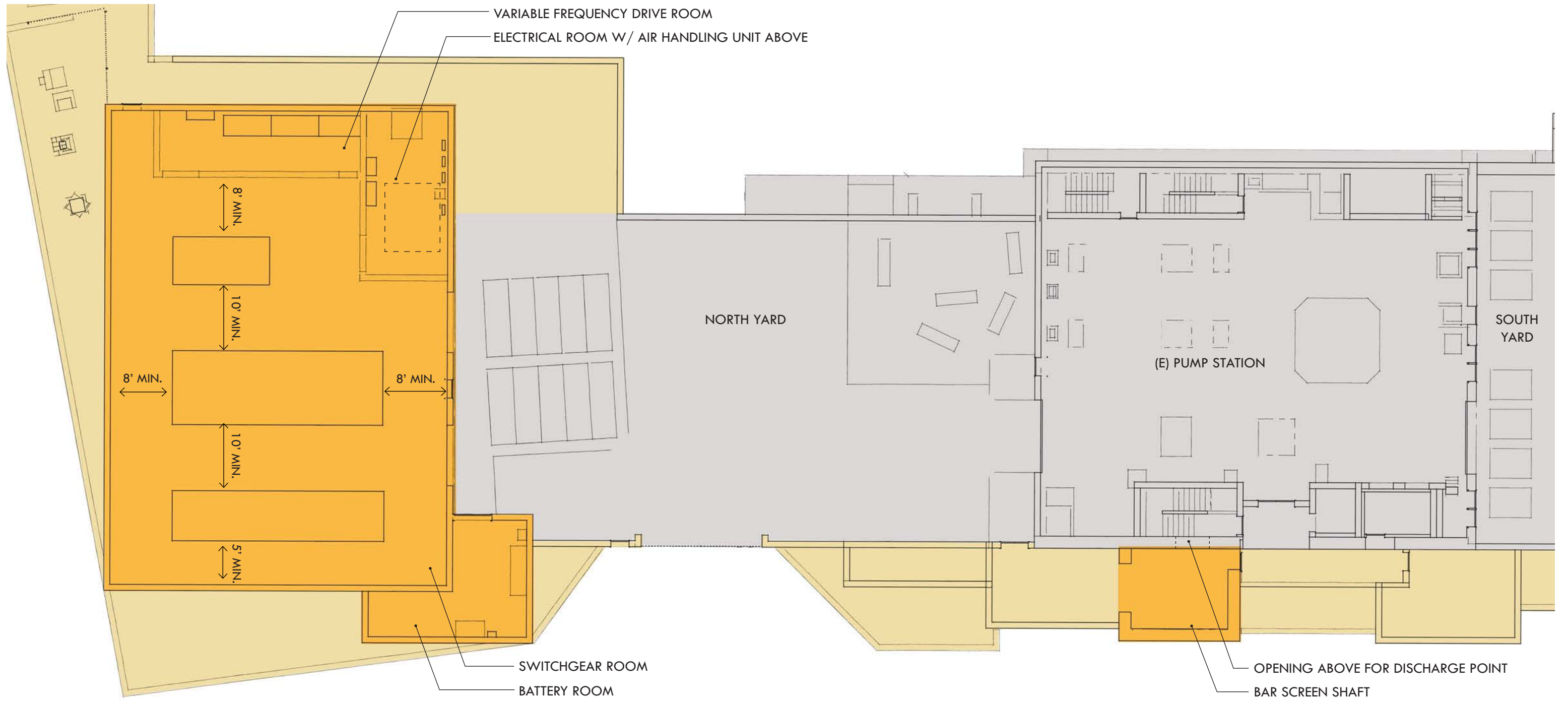
Existing Site Plan

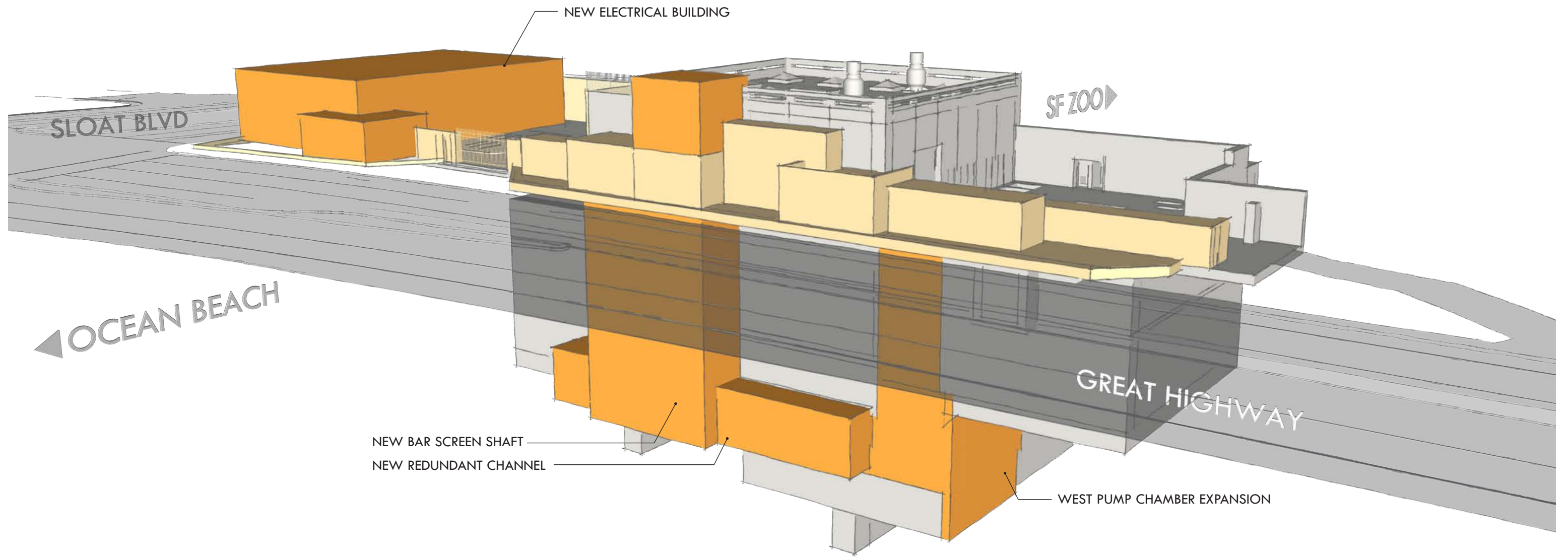


Photos of Existing Site



Proposed Site Plan

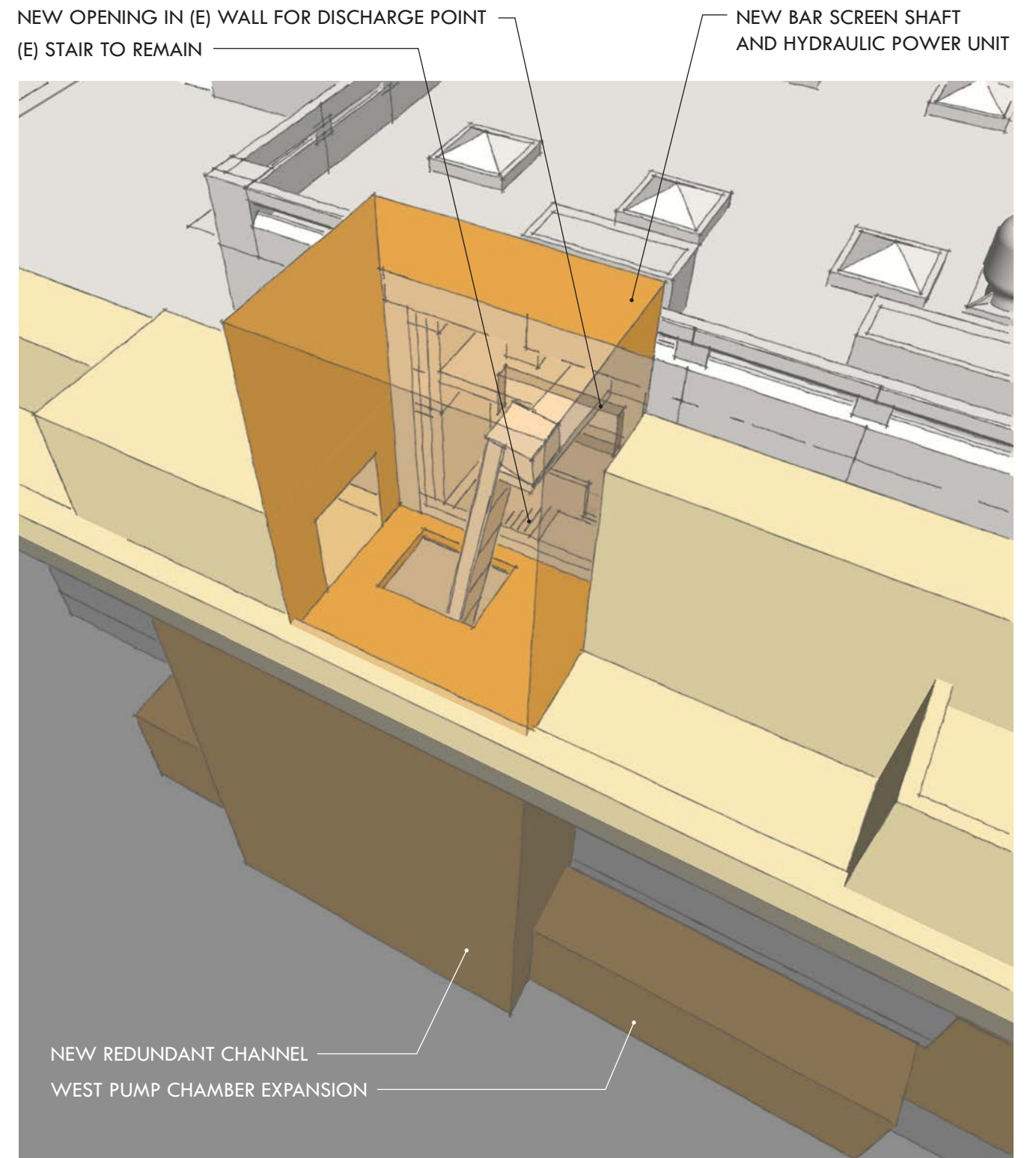
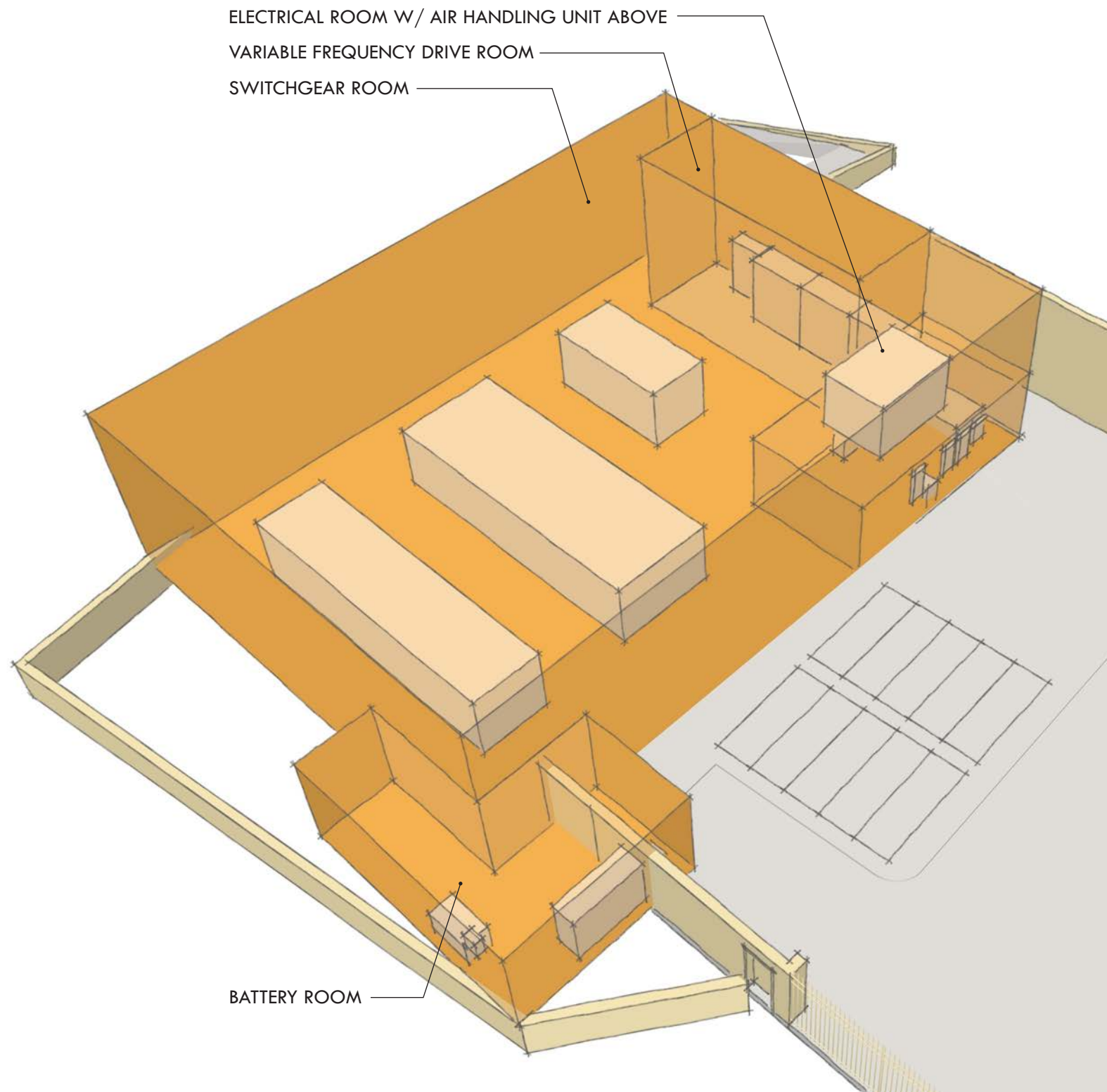




EXISTING TO REMAIN
 EXISTING TO BE MODIFIED / RECONSTRUCTED*
 PROPOSED ADDITIONS

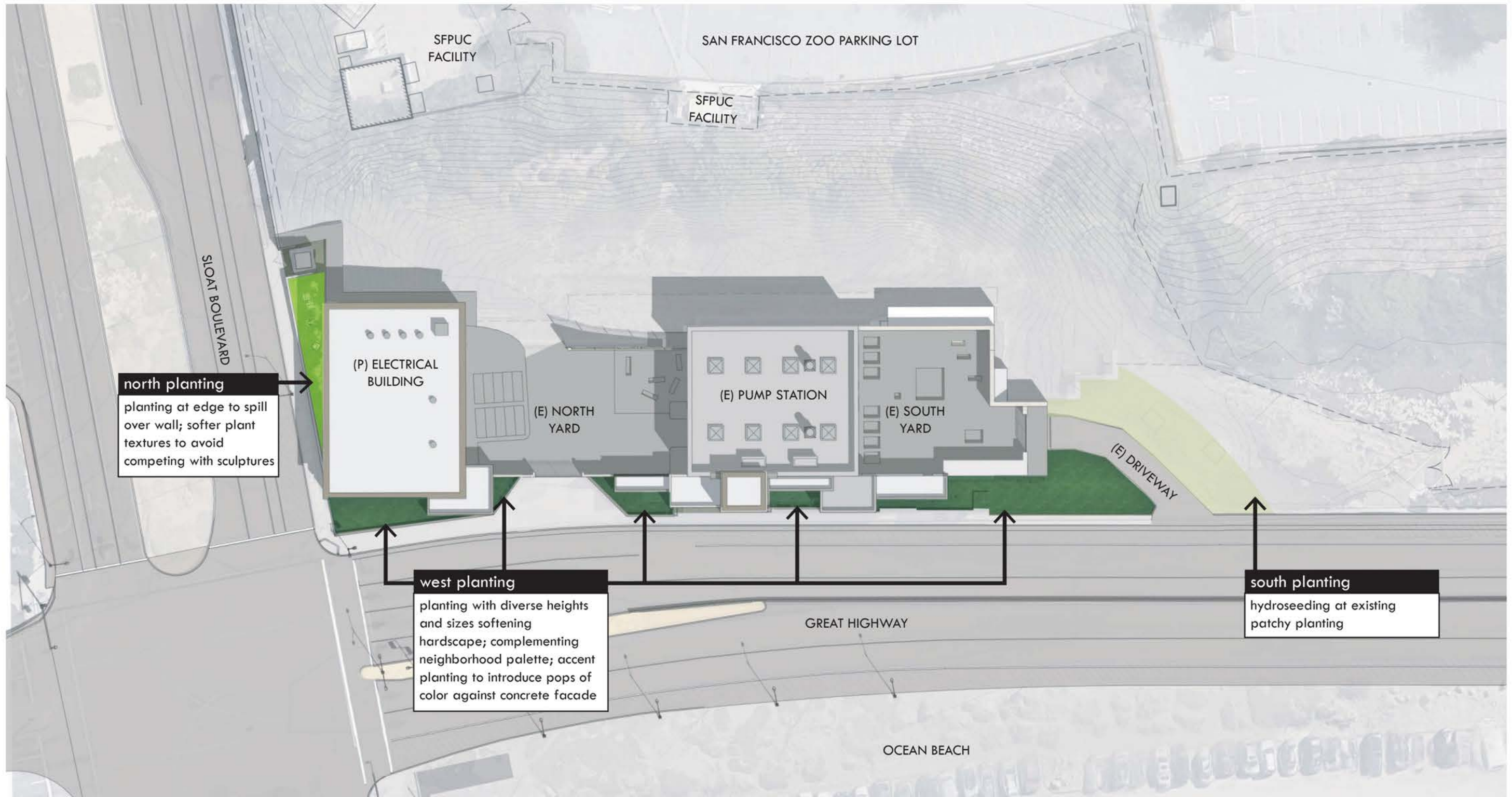
* RECONSTRUCTION NECESSITATED MAINLY BY EXCAVATION FOR WORK BELOW GRADE

Proposed Program



- EXISTING TO REMAIN
- EXISTING TO BE MODIFIED / RECONSTRUCTED
- PROPOSED ADDITIONS

Program Location and Form



WEST PLANTING

TALLER (ABOVE 2FT)



NEW ZEALAND FLAX
PHORMIUM 'MARGARET JONES'
INFREQUENT



BLUE OAT GRASS
HELICTOTRICHON SEMPERVIRENS
SUMMER

MID (1 TO 2FT)



BLUE CHALK STICKS
SENECIO MANDRALISCAE
SUMMER



SEA LAVENDER
LIMONIUM CALIFORNICUM
LATE SUMMER-EARLY WINTER



CORAL ALOE
ALOE STRIATA
WINTER-SPRING

LOW (BELOW 1FT)



ANGELINA STONECROP
SEDUM RUPESTRE 'ANGELINA'
SUMMER

NORTH PLANTING

TALLER (ABOVE 2FT)



LION'S EAR
LEONOTIS LEONURUS
SPRING-FALL



BLUE OAT GRASS
HELICTOTRICHON SEMPERVIRENS
SUMMER

MID (1 TO 2FT)



ROCK PURSLANE
CALINDRINIA GRANDIFLORA
SUMMER

LOW (BELOW 1FT)



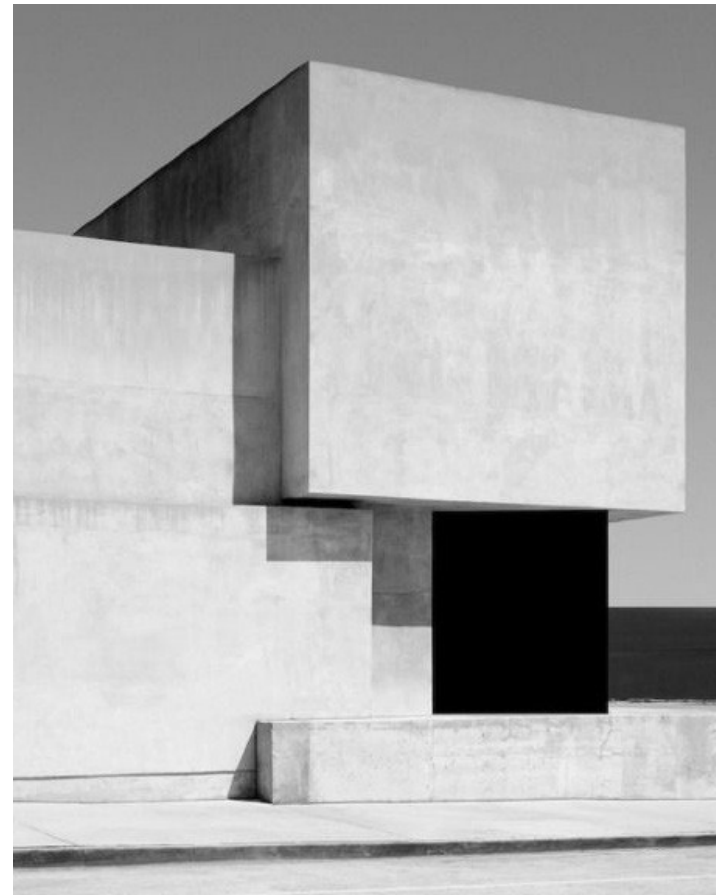
ANGELINA STONECROP
SEDUM RUPESTRE 'ANGELINA'
SUMMER



LITTLE SUR MANZANITA
ARCTOSTAPHYLOS EDMUNDSII
WINTER-SPRING



Floor Plan



Scheme A - Imagery



Scheme A - Great Highway - Southbound

Westside Pump Station - Reliability Improvements

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Scheme A - Great Highway - Northbound



Scheme A - Sloat Boulevard - Eastbound



Scheme A - Sloat Boulevard - Westbound

Westside Pump Station - Reliability Improvements

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Scheme A - Overall Perspectival Elevation



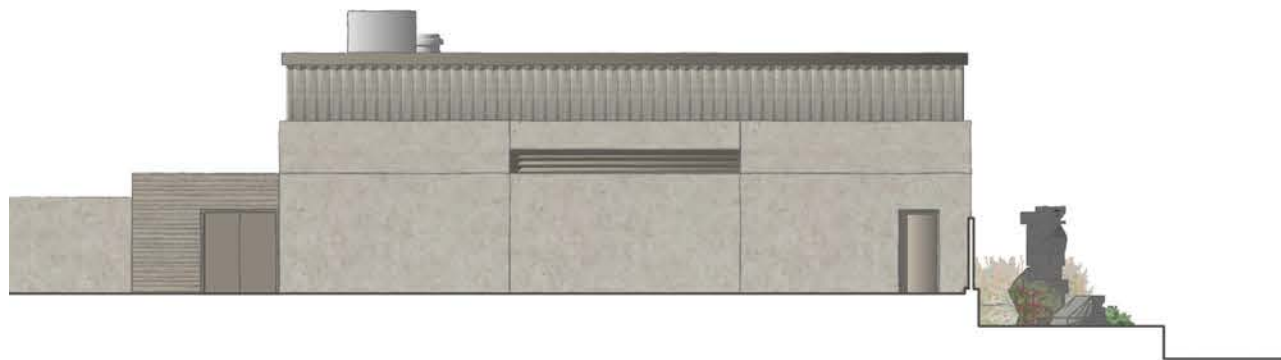
SOUTH ELEVATION

ROOF
20'-2"

LEVEL 1
0'-0"



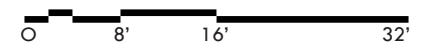
WEST ELEVATION



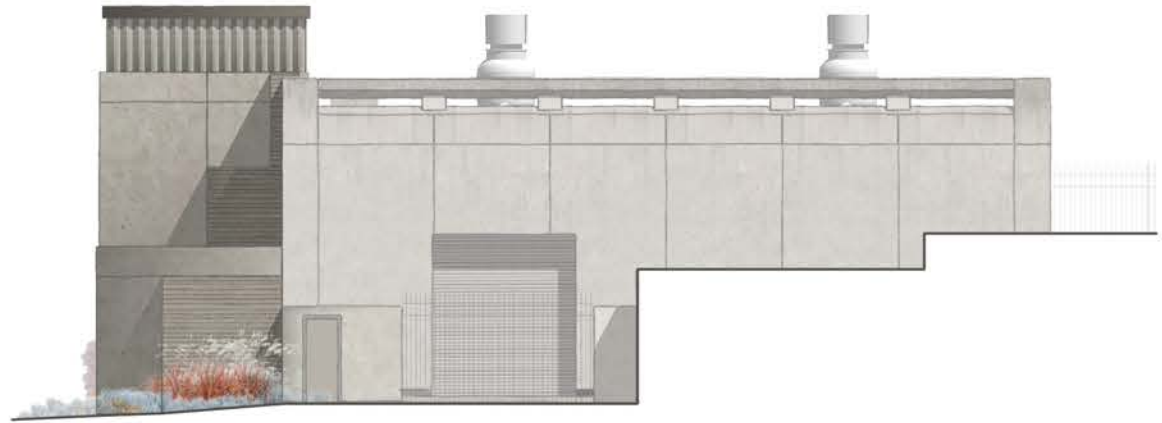
EAST ELEVATION



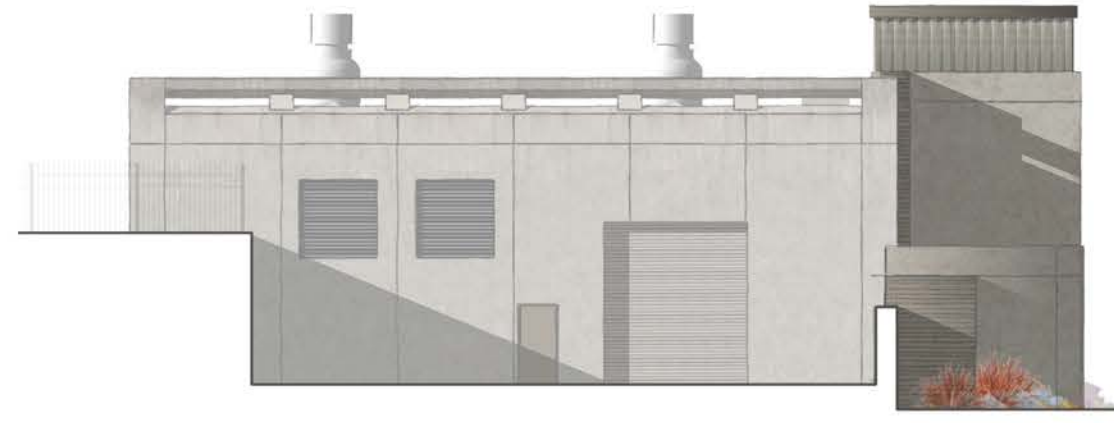
NORTH ELEVATION



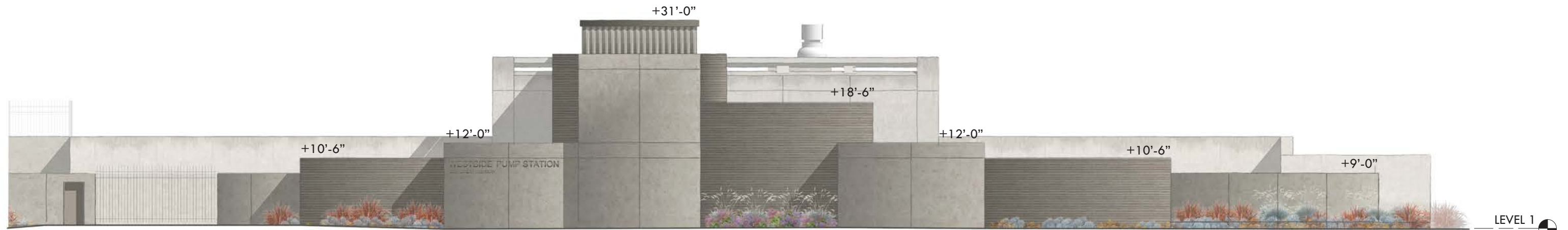
Scheme A - Electrical Building Elevations



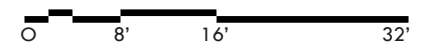
SOUTH ELEVATION



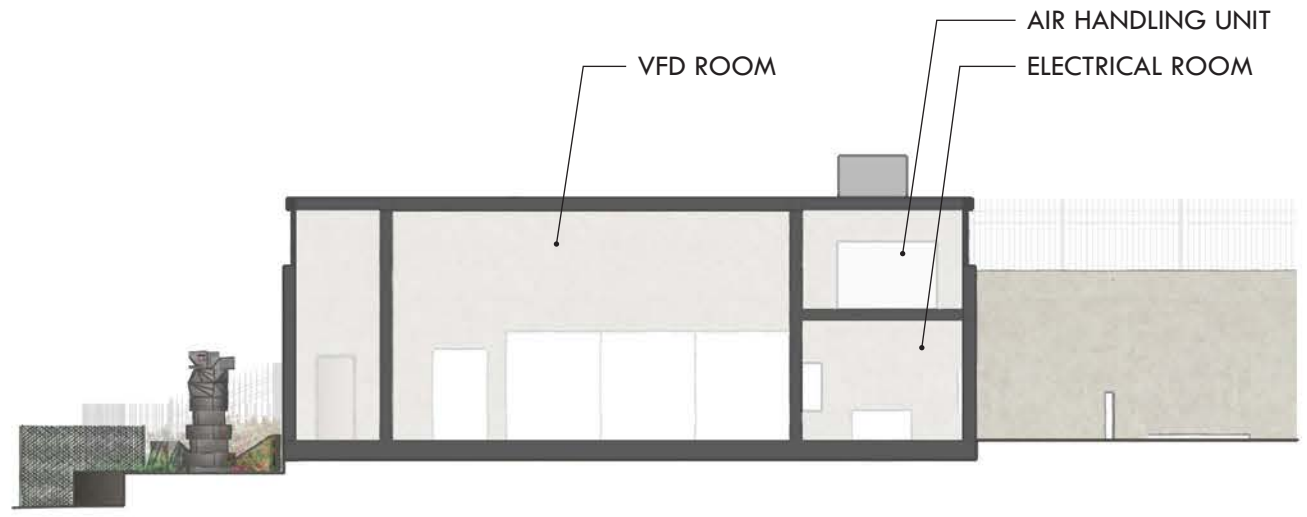
NORTH ELEVATION



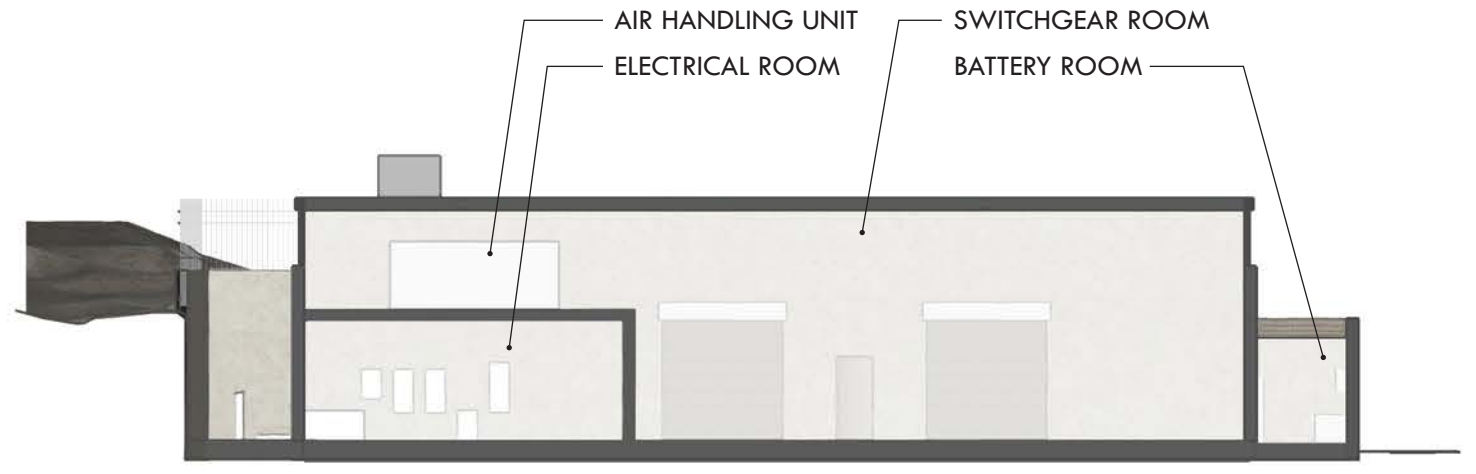
WEST ELEVATION



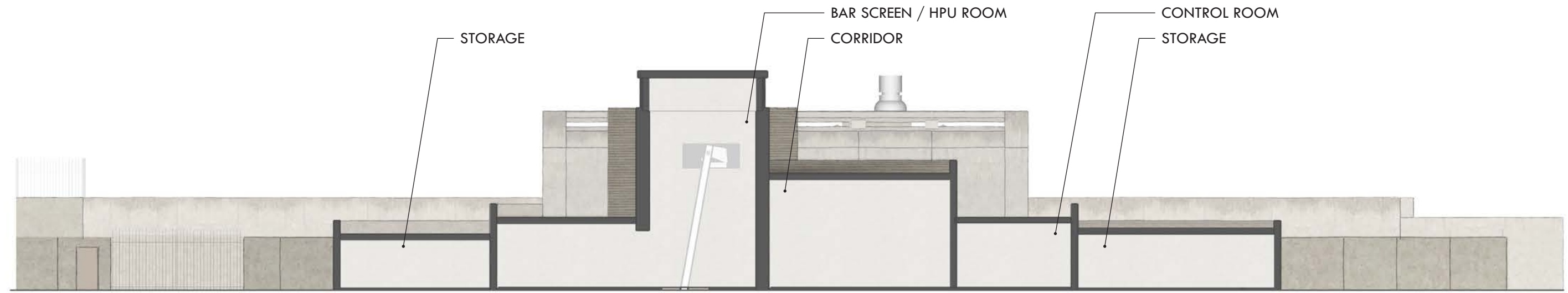
Scheme A - Main Building Elevations



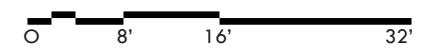
ELECTRICAL BUILDING SECTION B-B



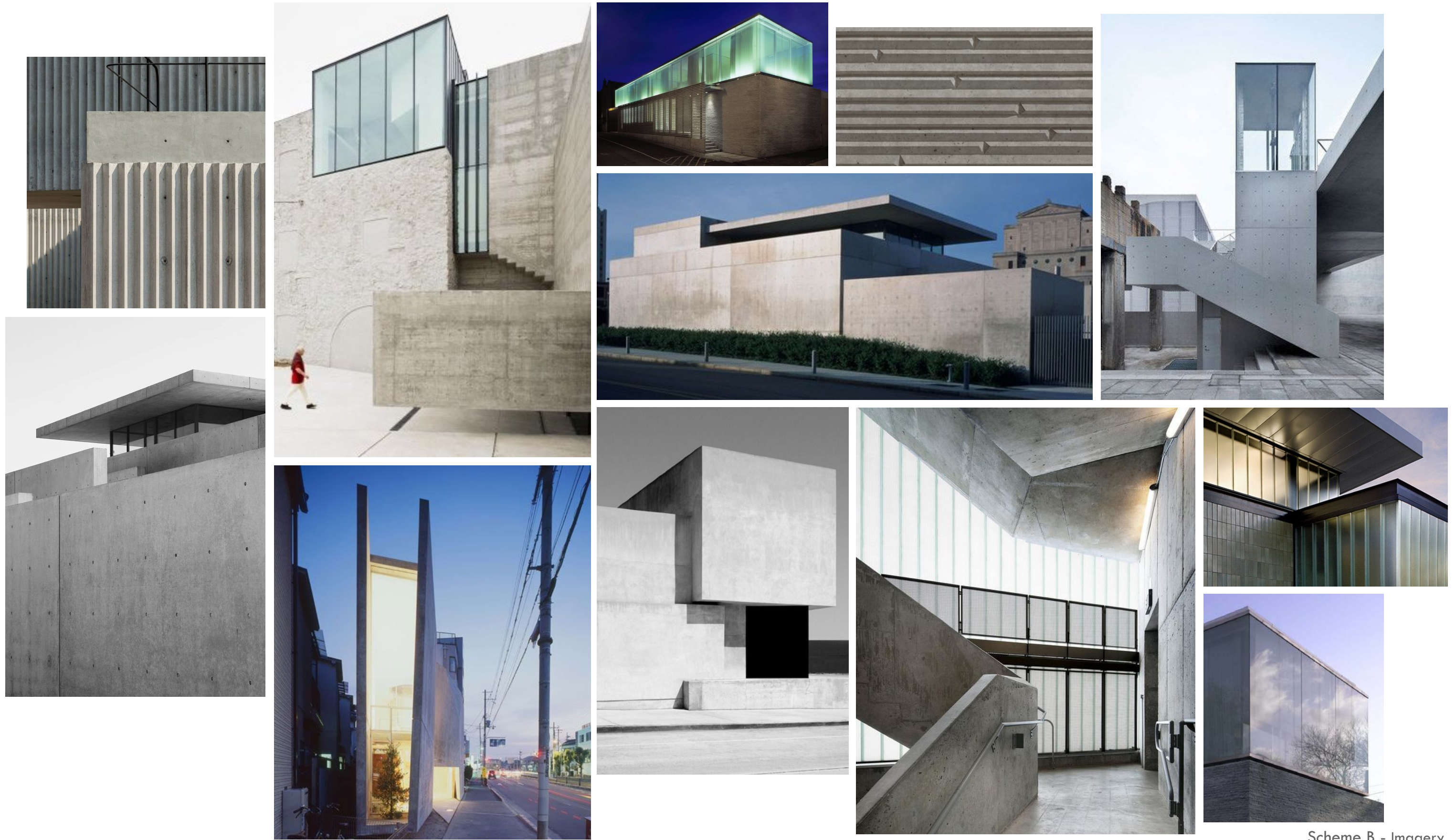
ELECTRICAL BUILDING SECTION A-A



MAIN BUILDING SECTION A-A



Scheme A - Building Sections



Scheme B - Imagery



Scheme B - Great Highway - Southbound



Scheme B - Great Highway - Northbound



Scheme B - Sloat Boulevard - Eastbound



Scheme B - Sloat Boulevard - Westbound



Scheme B - Overall Perspectival Elevation



SOUTH ELEVATION

ROOF
20'-2"

LEVEL 1
0'-0"



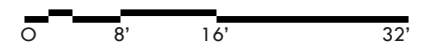
WEST ELEVATION



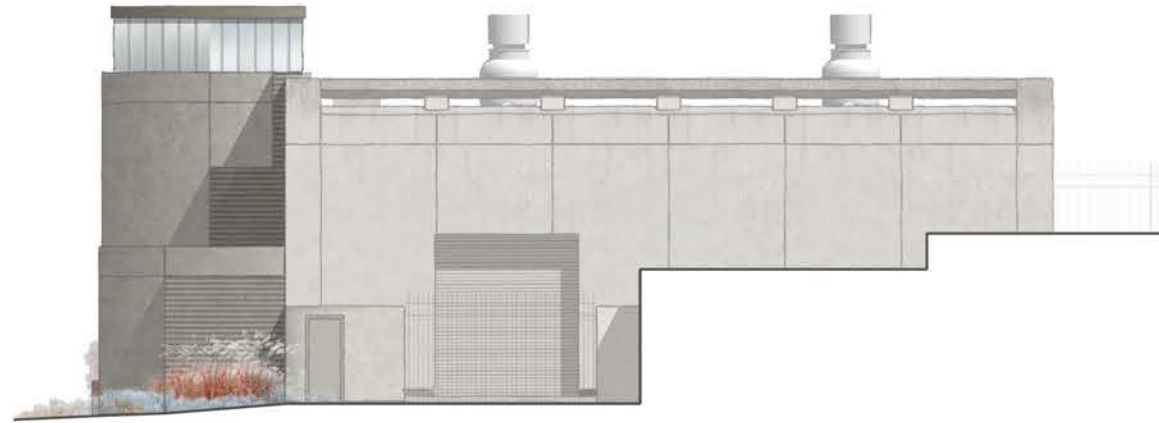
EAST ELEVATION



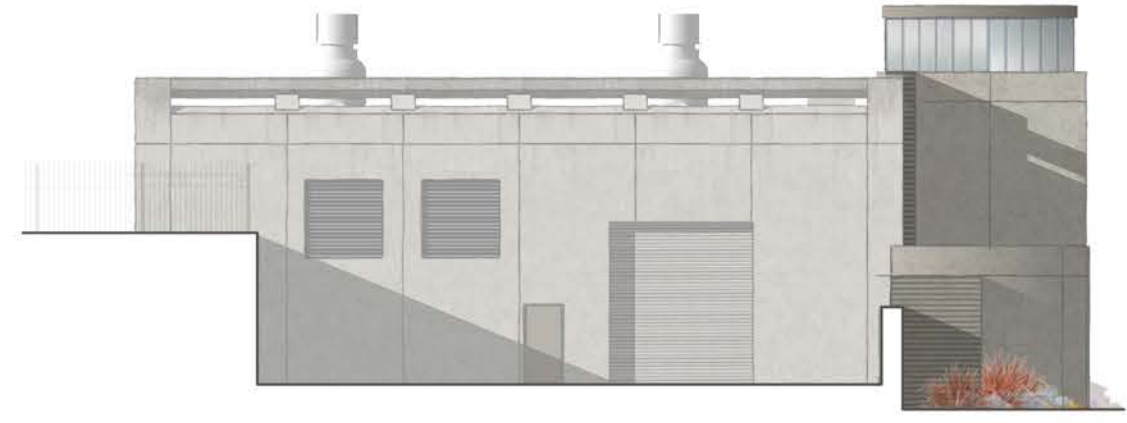
NORTH ELEVATION



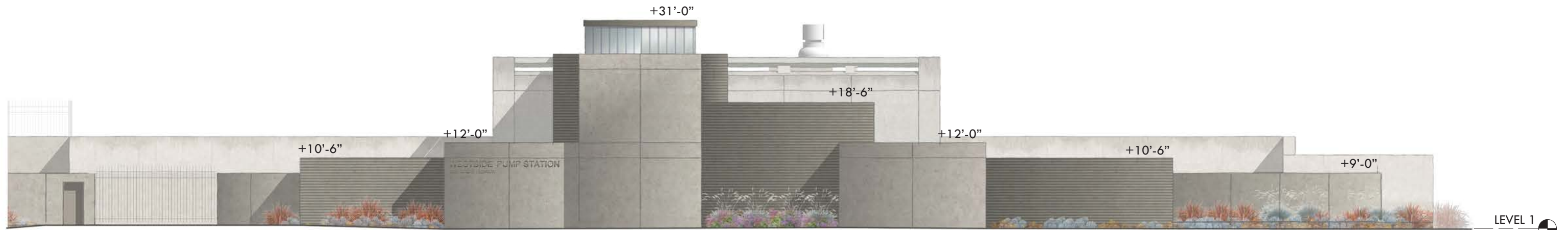
Scheme B - Exterior Elevations



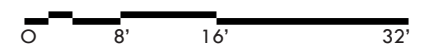
SOUTH ELEVATION



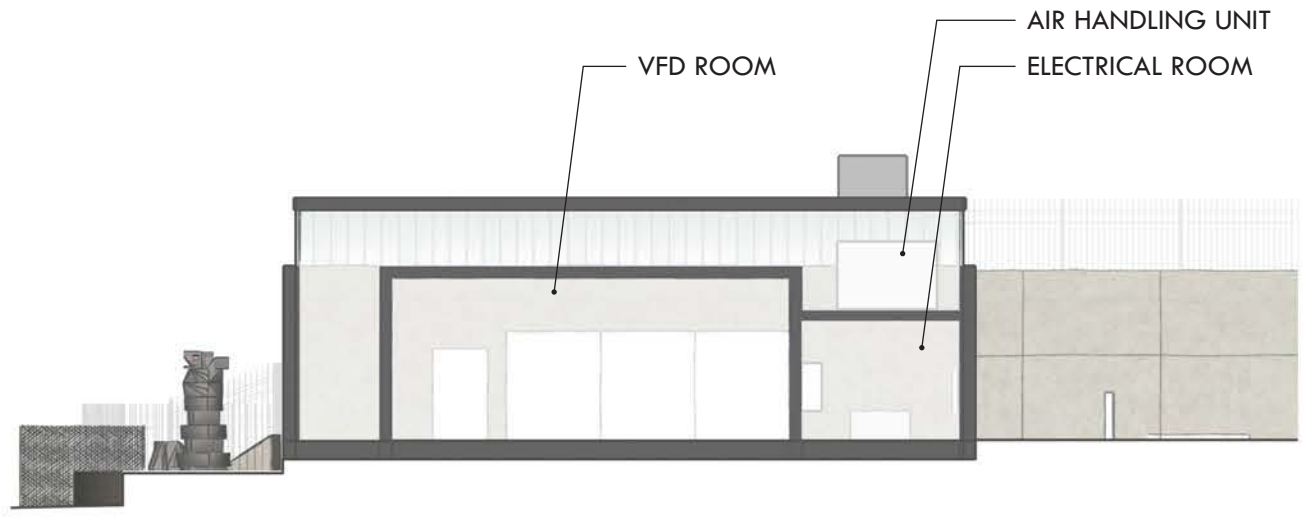
NORTH ELEVATION



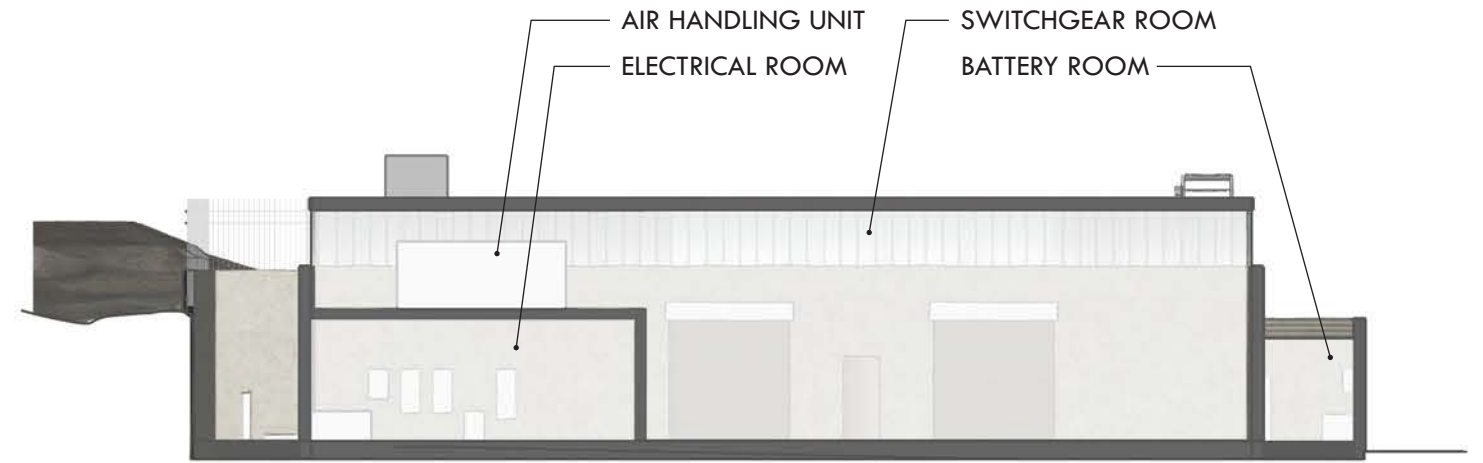
WEST ELEVATION



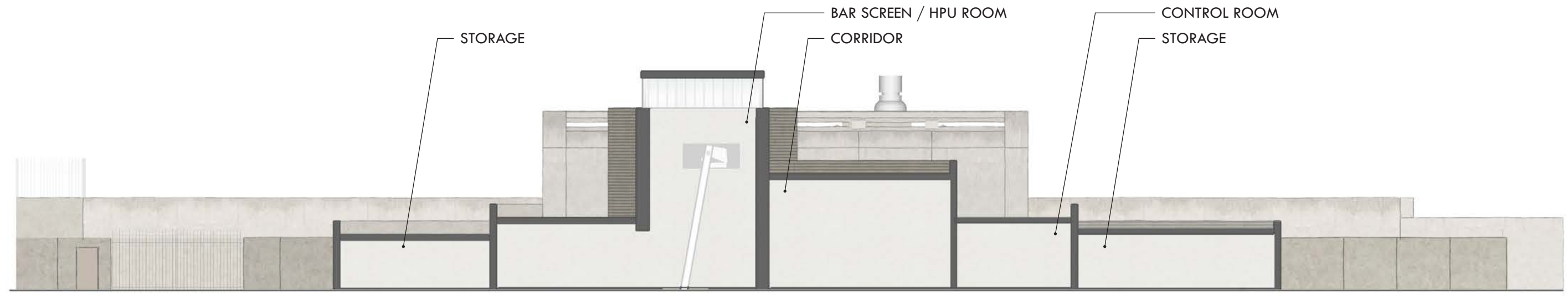
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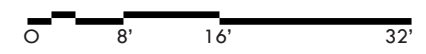
ELECTRICAL BUILDING SECTION B-B



ELECTRICAL BUILDING SECTION A-A



MAIN BUILDING SECTION A-A



Scheme B - Building Sections