VICINITY MAP

PROJECT LOCATION ALONG EMBARCADERO NORTHEASTERN WATERFRONT

- BAY BRIDGE
- PIER 24 ANNEX
- PIER 26
- RINCON POINT
- OPEN WATER BASIN
- PIER 22 1/2
- PIER 14
- RINCON PARK
- CUPID'S SPAN
SFFD OPERATIONAL NEEDS

- CONSOLIDATE OF SAN FRANCISCO FIRE DEPARTMENT’S MARINE ASSETS AT CENTRAL LOCATION (SEE FIG. 1)
- IMMEDIATE DEPLOYMENT OF ALL THREE FIREBOATS, RESCUE WATERCRAFT, AND JET SKIS
- REDUCE RESPONSE TIMES TO INCREASING CALLS FOR SERVICE (SEE FIG. 2)
  - WATER RESCUE, FIRE OPERATIONS, EMERGENCY MEDICAL SERVICES (EMS), BODY RECOVERY, SPILL CONTAINMENT, EMERGENCY FIREFIGHTING WATER SYSTEM (EFWS), AND AUXILIARY WATER SUPPLY SYSTEM (AWSS)
- CURRENT STAFFING
  - 21 TOTAL MEMBERS ARE ASSIGNED TO FIRE STATION NO. 35; 7 MEMBERS ON SHIFT AT ANY GIVEN TIME
    - ENGINE COMPANY NO. 35: (4) FIREFIGHTERS; FIREBOAT: (1) OFFICER, (1) PILOT, (1) MARINE ENGINEER

FIG. 1 - SAN FRANCISCO FIRE DEPARTMENT MARINE ASSETS
A: PIER 22 ½ - THREE FIREBOATS; B: ST. FRANCIS YACHT CLUB - TWO JET SKIS, 1 RESCUE BOAT; C: FIRE STATION 8 - SPARE FIREFIGHTING HOSE; D: FIRE STATION 1 - SCUBA TANK FILLING STATION; E: FIRE STATION 9 - OIL CONTAINMENT BOOMS; F: FIRE STATION 49 - FIREFIGHTING FOAM FOR SHIP FIRES

FIG. 2 - DISTINCT COUNT OF INCIDENTS RESPONDED TO BY SFFD MARINE UNITS
TYPES OF INCIDENTS INCLUDE, BUT NOT LIMITED TO: AIRCRAFT EMERGENCY, ALARMS, CITIZEN ASSIST / SERVICE CALL, FUEL SPILL, HIGH ANGLE RESCUE, MARINE FIRE, MEDICAL INCIDENT, OIL SPILL, OUTSIDE FIRE, STRUCTURE FIRE, WATER RESCUE, AND WATERCRAFT IN DISTRESS
**LOCATION ANALYSIS**

**BAY FILL VOLUME**

**AREA REMOVED**

GROSS VOL. REMOVED:
1382 CF

**AREA ADDED**

GROSS VOL. ADDED:
71000 CF

NET VOL. ADDED:
69618 CF

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<tr>
<th>Shadow Area</th>
<th>Bay Fill Volume</th>
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<tr>
<td></td>
<td>Gross Added</td>
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<td>1382</td>
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**Notes:**

1. These estimates will be updated as the design is developed and as more accurate data on the existing piling is obtained. Some possible changes are reflected in the contingency included in the "For Permit, with Contingency" row.

2. Water level based on MSL.

3. Added shadow area for new fire station based on Concept design dated May 23, 2017.

4. Approximate removed shadow area based on RFP Addendum 8, Attachment 4 "Demolition Plan" Drawing C-110 dated 4/21/17.

5. Added bay fill based on estimated mudline (see "Idealized Subsurface Profile A-Pier 22 1/2, Fireboat Headquarters" by AGS, Inc. dated 4/93) and:
   - Float: 65,740 cf, 4' draft x 95' x 174'
   - Pier piles: (4) x 4' diameter, (1) x 2' diameter
   - Float piles: (6) x 4' diameter
   - Other - small craft access platforms, fenders

6. Removed bay fill volume based on:
   - Estimated size and number of piles from photos of existing piling from September 15, 2016, site visit
   - Estimate: 1' diameter, 100 piles total

   - Estimated length of pile in water of 20' for south finger pier piles and one story shed piles, and 10' for parking lot piles.
MASSING AND ORIENTATION

- Maintain and highlight views of the bay and bay bridge from Harrison Street and Rincon Park
- Preserve the “Rincon Point Open Water Basin”
- Make fireboats “Phoenix”, “Guardian”, and “St. Francis” focal points
- Highlight the San Francisco waterfront’s historic maritime character
- Showcase the historic firehouse, a San Francisco landmark and contributing resource to the Embarcadero Historic District

OPTIONS:

- **OPTION 1 - PERPENDICULAR TO EMBARCADERO AND BEHIND HISTORIC STRUCTURE**
- **OPTION 2 - PARALLEL TO EMBARCADERO**
- **OPTION 3 - PERPENDICULAR TO EMBARCADERO AND ADJACENT TO HISTORIC STRUCTURE**
PHOTOMONTAGE

VIEW A (BEFORE)

VIEW A (AFTER)

VIEW C (BEFORE)

VIEW C (AFTER)
ENLARGED SITE PLAN AND OVERLOOK
SEA LEVEL RISE

EXISTING:

DESIGN MHHW = +3.0 ft NAVD88

EXISTING: BFE (100 YR SWL) = +9.8 ft

2070 (50 YR PROJECTED LIFE):

DESIGN SLR = 2.8 ft = 33.6 in.

DESIGN MHHW + SLR = +9.17 ft NAVD88

DESIGN BFE + SLR = +12.6 ft NAVD88

OPERABLE WINDOW SYSTEM

STEEL OBSERVATION DECK

ALUMINUM CURTAINWALL GLAZING

ALUMINUM OVERHEAD DOORS

STEEL CHANNEL CANOPY

EXISTING FIRE HOUSE

EXISTING FIRE HOUSE WITH FLOATING FIRE HOUSE
Notes:
1. Current tidal datum information collected from National Geodetic Survey data for Tidal Station ID 9414317, PID# HT0759, VM# 8094.
3. Tidal data above does not include consideration for El Niño events, storm surge, storm waves, and wave run-up which all affect the local water level in addition to sea level rise.
WATER AND EMBARCADERO PERSPECTIVES