FIRE STATION 35
BCDC DRB/PORT WDAC 2ND PRE-APPLICATION REVIEW
JUNE 11, 2018
WATERFRONT SITE PLAN
SFFD - CURRENT & FUTURE STAFFING

● Fireboat Station No. 35 Current Staffing
  ○ 21 total members are assigned to Fire Station No. 35; 7 members on shift at any given time -- 3 shifts
  ○ Engine Company No. 35: (1) officer, (2) firefighters, and (1) medic
  ○ Fireboat: (1) officer, (1) pilot, and (1) marine engineer

● Future Staffing
  ○ Dedicated Marine Unit of 3 additional members trained in responding to marine emergencies
  ○ Officers: 3 shifts x 4 (2 officers + 1 pilot + 1 engineer) = 12 beds
  ○ 3 shifts x 3 firefighters + 3 unassigned/vac.relief + 1 swing = 13 beds
  ○ 3 shifts x 3 dedicated marine unit firefighters + 1 swing = 10 beds
  ○ Members = 35 total beds - 12 officers = 23 beds in dormitory
EXISTING USE

- Operates as working fire station housing Engine Company No. 35 (4 daily staff) and Fireboat Company No. 1 (3 daily staff)

DEFICIENCIES (Code, Safety, and Operational Requirements)

- The fireboats need regular and ongoing maintenance including welding and other metal work -- this is currently done in the existing wood framed shed structure on the north finger pier; welding is hazardous in pier shed structure
- Fire station and pier structure have not been seismically retrofitted
- No ambulance access to back of fire station for transfer of injured
- No waste oil tank for service truck access -- currently stored in 55 gallon drums
- No decontamination space for firefighters and equipment
- No drying or storage space for wetsuits and life jackets (must be separate from turn-out drying room)
- No cranes to raise / lower small rescue watercraft into water
- No reasonable means to lift heavy equipment to/from fireboats -- maintenance or firefighting equipment
- Limited access to 2nd floor doesn't meet current code requirements
- No changing facilitates, no accessible public restroom, no decontamination area, and no storage area for dive equipment
BAY FILL VOLUME

AREA REMOVED

GROSS VOL. REMOVED:
1382 CF

AREA ADDED

GROSS VOL. ADDED:
82000 CF

NET VOL. ADDED:
80618 CF

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HISTORIC AND NEW FIRE STATION
EMBARCADERO PERSPECTIVE

(PRESENTATION #1 DATED 2/26/2018)

AS PROPOSED
EMBARCADERO PERSPECTIVE
BUILDING MATERIALS/OPERATIONS
WATER PERSPECTIVE

(PRESENTATION #1 DATED 2/26/2018)

AS PROPOSED
LEVEL ROOF PLAN
PRESENTATION #1 DATED
2/26/2018

LEVEL ROOF PLAN
PROPOSED

FIGURE 5.3
FUTURE PHOTOVOLTAIC PANELS

FLOOR PLANS
LEVEL 2 PLAN
PRESENTATION #1 DATED
2/26/2018
7852 sf (gross)

LEVEL 2 PLAN
PROPOSED
7245 sf (gross)
ELEVATIONS (SOUTH ELEVATION)

PRESENTATION DATED 2/26/2018

AS PROPOSED

EXISTING FIRE STATION WITH FUTURE COLOR "ANTIQUE WHITE" BY PORT OF SF

OPERABLE WINDOW SYSTEM
ALUMINUM CURTAINWALL GLAZING
ALUMINUM OVERHEAD DOORS
STEEL CHANNEL CANOPY
STEEL OBSERVATION DECK

INSULATED METAL PANEL CORRUGATED DS60 SILVER/MARINE FINISH

STEEL OBSERVATION DECK

FIGURE 6.2

FIRE STATION 35 AT PIER 22 ½
BCDC DRB/PORT WDAC 2ND PRE-APPLICATION REVIEW
MONDAY, JUNE 11, 2018

SWINERTON-POWER
a joint venture

SHAH KAWASAKI • ARCHITECTS

Liftech
PUBLIC WORKS
ELEVATIONS (SOUTH ELEVATION)

2/26/2018 DESIGN

EXISTING FIRE STATION WITH FUTURE COLOR
"ANTIQUE WHITE" BY PORT OF SF

AS PROPOSED

METAL MARINE FLOOR
STEEL PLATE WARM GREY
STEEL CHANNEL CANOPY
ALUMINUM CURTAIN WALL
ALUMINUM OVERHEAD DOORS
STEEL OBSERVATION DECK

FIGURE 6.2

FIRE STATION 35 AT PIER 22 ½
BCDC DRB/PORT WDAC 2ND PRE-APPLICATION REVIEW
MONDAY, JUNE 11, 2018
FIGURE 6.2

ELEVATIONS (NORTH ELEVATION)

OPERABLE WINDOW SYSTEM

INSULATED METAL PANEL
MARINE FINISH
COMPATIBLE WITH
ANTIQUE WHITE

BOARD FORMED CONCRETE
WARM GREY

ALUMINUM OVERHEAD DOORS

ARCHITECTURAL LOUVERS

STEEL OBSERVATION DECK

OPERABLE WINDOW SYSTEM

INSULATED METAL PANEL
CORRUGATED DS60
SILVER/MARINE FINISH

METAL MARINE FLOOR

STEEL PLATE
WARM GREY

STEEL CHANNEL
CANOPY

ALUMINUM OVERHEAD
DOORS

ALUMINUM CURTAIN WALL

EXISTING FIRE STATION WITH FUTURE
COLOR "ANTIQUE WHITE" BY PORT OF SF

PRESENTATION DATED 4/5/2018

AS PROPOSED

FIRE STATION 35 AT PIER 22 ½
BCDC DRB/PORT WDAC 2ND PRE-APPLICATION REVIEW
MONDAY, JUNE 11, 2018

SWINERTON-POWER • A JOINT VENTURE

SHAH KAWASAKI • ARCHITECTS

PUBLIC WORKS
ELEVATIONS (NORTH ELEVATION)

2/26/2018 DESIGN

AS PROPOSED

EXISTING FIRE STATION WITH FUTURE COLOR "ANTIQUE WHITE" BY PORT OF SF

2'- 4" 31'- 8"

FIGURE 6.2
ELEVATIONS (WEST AND EAST ELEVATIONS)

BEFORE

BAGUETTE SCREEN TERRA COTTA
ALUMINUM PLATE
STEEL PLATE WARM GREY
METAL MARINE FLOOR

AS PROPOSED

ALUMINUM AIRFOIL LOUVERS DARK GREY
ALUMINUM PLATE

WEST ELEVATION

东南立面

EAST ELEVATION

东南立面

ALUMINUM PLATE
ALUMINUM CURTAIN WALL

METAL MARINE FLOOR
STEEL PLATE WARM GREY

2'-4"
31'-8"
EMBARCADERO PIER OVERLOOK PERSPECTIVE

PRESENTATION #1 DATED 2/26/2018

PROPOSED
GUARDRAIL DETAIL

1" DIA PTD GALV MTL PIN, TYP
LED LIGHT FIXTURE

PTD GALV 2" SQUARE STEEL TUBE

2" x 1/4" THICK PTD GALV

(4) STAINLESS STEEL BOLTS

PTD GALV MTL ANGLE

PTD GALV HSS STRUCTURAL ASSEMBLY

INDICATES TOP OF GUARDRAIL ABOVE
2" DIA PTD GALV MTL PIN, TYP
FENCE AND GATE DETAIL

PTD GALV 2" WIDE x 1/2" THICK MTL RAILINGS, TYP
PTD GALV 3" x 3" MTL FRAME, TYP
PTD GALV MTL PLATE WELDED TO FRAME OR WIDE FLANGE POST, TYP
8" X 8" PTD GALV WIDE FLANGE
PTD GALV MTL PLATE WHEEL ASSEMBLY AT GATE

IMAGE OF PIER TERMINAL 27 FENCE/GATE
### SITE PLAN

#### KEY NOTES

1. FENDER
2. LOWER PLATFORM FOR JET SKI ACCESS
3. JET SKI LIFT
4. ALUMINUM GANGWAY
5. ACCESS LADDER
6. 48" DIAMETER PILE
7. CLEAT
8. LED EDGE LIGHT
9. PATH OF AMBULANCE BASED ON AUTO-TURN ANALYSIS
10. AMBULANCE
11. CRANE
12. ACCESS RAMP
13. POTABLE WATER METER
14. FIRE WATER METER
15. (E) AWSS MANIFOLD TO REMAIN
16. GATE
17. ELECTRICAL SERVICE SWITCHBOARD
18. GAS METER MOUNTED ON CONCRETE PAD
19. (N) FENCE
20. EMERGENCY VEHICLE ACCESS GATE
21. OVERLOOK
22. SEA LEVEL EXHIBIT MARKER
23. FIRE HOSE GRATED PLATFORM
24. FUTURE PUBLIC ART
25. PUBLIC ACCESS GATE
26. (E) FENCE (TO BE REMOVED)

#### NEW AREA OF PUBLIC ACCESS

PUBLIC ART/EDUCATION EXHIBITS

BCDC 100' SHORLINE BAND

(PRESENTATION DATED 2/26/18)

(AS PROPOSED)
ENLARGED PLAN OF PUBLIC ACCESS DESIGN

KEY NOTES
1. ACCESS RAMP
2. PUBLIC ACCESS GATE
3. (E) AWSS MANIFOLD TO REMAIN
4. ELECTRICAL SERVICE SWITCHBOARD WITH PUBLIC ACCESS INFORMATION BOARD
5. FENCE
6. FIRE HOSE GRATED PLATFORM
7. EMERGENCY VEHICLE ACCESS GATE
8. HISTORIC FIRESTATION/MARITIME INFO PANEL
9. LOMA PRIETA EARTHQUAKE/FIRE RESPONSE INFO PANEL
10. FUTURE PUBLIC ART (TO BE DETERMINED)
11. VIEWING SCOPE
12. RAILING
13. (E) FENCE (TO BE REMOVED)

NEW AREA OF PUBLIC ACCESS
PUBLIC ART/EDUCATION EXHIBITS
PHOTOMONTAGE

EMBARCADERO PROMENADE LOOKING SOUTH (EXISTING)

EMBARCADERO PROMENADE LOOKING SOUTH (AS PROPOSED)
PHOTOMONTAGE

RINCON PARK LOOKING SOUTH (EXISTING)  

RINCON PARK LOOKING SOUTH (AS PROPOSED)
SEA LEVEL RISE

EXISTING FIRE HOUSE WITH FLOATING FIRE HOUSE

LEGEND

+16.6’ NAVD88
PROJECTED DESIGN 2100 TWL (80 YRS)
9.8’ BFE + 2.3’ WAVE RUNUP & SETUP = 4.5’ SLR

+14.9’ NAVD88
PROJECTED DESIGN 2070 TWL (50 YRS)
9.8’ BFE + 2.3’ WAVE RUNUP & SETUP = 2.8’ SLR

+12.1’ NAVD88 CURRENT DESIGN TWL
9.8’ BFE + 2.3’ WAVE RUNUP & SETUP

+9.17’ NAVD88 PROJECTED 2070 MHHW (50 YRS)
6.37’ DESIGN MHHW + 2.8’ SLR

EXISTING:
DESIGN MHHW = +6.37’ NAVD88
DESIGN BFE (100 YR SWL) = +9.8’ NAVD88

2070 (50 YR PROJECTED LIFE):
DESIGN SLR = 2.8 ft = 33.6 in.
DESIGN MHHW + SLR = +9.17’ NAVD88
DESIGN BFE + SLR = +12.6’ NAVD88

2100 (80 YR PROJECTED LIFE):
DESIGN SLR = 4.5’ = 54’
DESIGN MHHW + SLR = 10.9’ NAVD88
DESIGN BFE + SLR = 14.3’ NAVD88

MHHW = MEAN HIGHER HIGH WATER
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
SLR = SEA LEVEL RISE
SWL = STILL WATER LEVEL
BFE = BASE FLOOD ELEVATION (100 YEAR SWL)
TWL = TOTAL WATER LEVEL = 100 YEAR SWL + WAVE SETUP & RUNUP

NOTES:
1. CURRENT TIDAL DATA BASED ON NOAA TIDAL STATION ID 9414750.
2. TIDAL DATA ABOVE DOES NOT INCLUDE CONSIDERATION FOR EI NINO EVENTS, STORM SURGE, STORM WAVES, AND WAVE RUN-UP WHICH ALL AFFECT THE LOCAL WATER LEVEL IN ADDITION TO SEA LEVEL RISE.