

# Cosco Busan NRDA Berkeley Pier Bird Enhancement Project

## Harbor Safety Committee

July 9, 2020  
Zoom Meeting

**Michael Anderson**  
(CDFW-OSPR)

**Sean Hart**  
(Moffatt and Nichol)

**Mark Rauzon**  
(Marine Endeavors)



# Why are we meeting with the Harbor Safety Committee?

- The Cosco Busan Oil Spill Trustee Council is proposing to enhance abandoned portions of the old Berkeley Pier to promote sea bird and shorebird roosting and nesting (i.e., create additional habitat for birds)
- The project would be located in the central SF Bay, offshore of the City of Berkeley
- The project could potentially affect boat traffic (i.e., commercial and recreational) in the bay and we are soliciting your feedback on any concerns you might have with this project and its location.

# Presentation Outline

- Introduction (Michael Anderson, CDFW-OSPR)
- Design and Location of Bird Nesting and Roosting Platforms (Sean Hart, Moffatt and Nichol)
- Current and Potential Future Bird Use of the Pier Following Enhancements (Mark Rauzon, Marine Endeavors)
- Feedback from the Committee, Including Discussion and Questions.

# **Cosco Busan NRDA Berkeley Pier Bird Enhancement Project**

## **Introduction**

Michael Anderson

California Department of Fish and Wildlife, Office of Spill Prevention and Response (CDFW-OSPR)



# Trustee Council for the Cosco Busan Natural Resource Damage Assessment (NRDA)

- Trustee Council Representative Agencies:  
CDFW, CSLC, NOAA, USFWS, NPS



- Formed after the November 2007 Cosco Busan Oil Spill in SF Bay. Case was settled in 2012
- Performed an injury assessment and now oversees restoration work done to compensate for spill injuries.

# What are Natural Resource Damages?

- Compensation for natural resource injuries
- Compensation for loss of use and enjoyment
- Damages are based upon the amount of ***restoration*** needed to make the environment and the public whole (OPA, Lempert-Keene)



# Injured Resources

- Birds
- Mammals
- Fish
- Shoreline Habitats
- Human Recreational Use

## Birds

Collected Live and Dead: 2,940

Total Estimated Mortality: **6,849**

### Species Impacted:

Surf Scoters / Scaup

Grebes

Salt Pond Divers

Sea Birds

Marbled Murrelets

**Brown Pelicans, Cormorants, Gulls, Shorebirds**

Marsh Birds



Project  
Focus

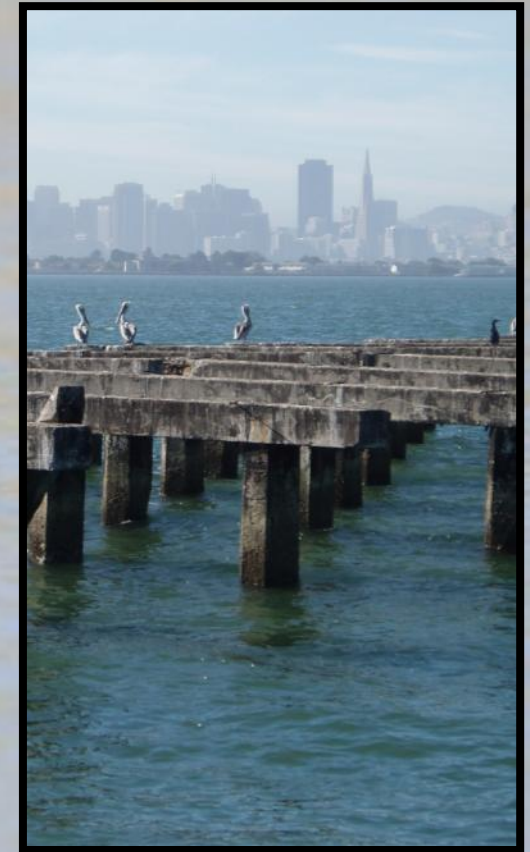




# Berkeley Pier Enhancement Project

## Project Concept and Estimated Cost

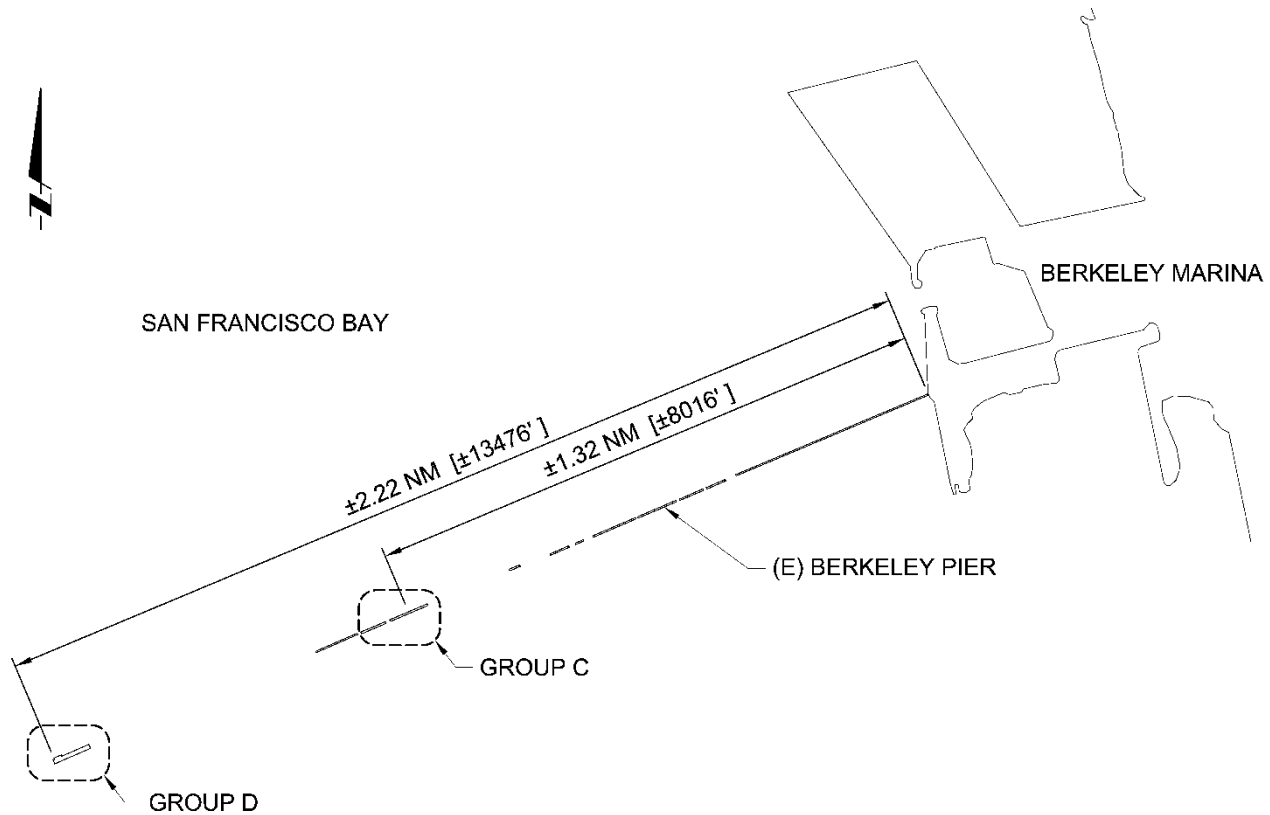
- Construct bird nesting and roosting platforms on derelict portions of pier pilings
- Benefit or replace Brown Pelicans, Cormorants, Gulls, and Shorebirds harmed by the spill
- Project developed and approved by the Trustee Council
- Project first envisioned in 2004 by Mark Rauzon
- **Estimated cost is \$600,000**



# **Cosco Busan NRDA Berkeley Pier Bird Enhancement Project**

Design and Location of Bird Nesting  
and Roosting Platforms

Sean Hart  
Moffatt and Nichol



## Berkeley Pier Enhancement Project

Roosting Platform Group Locations



## Berkeley Pier Enhancement Project

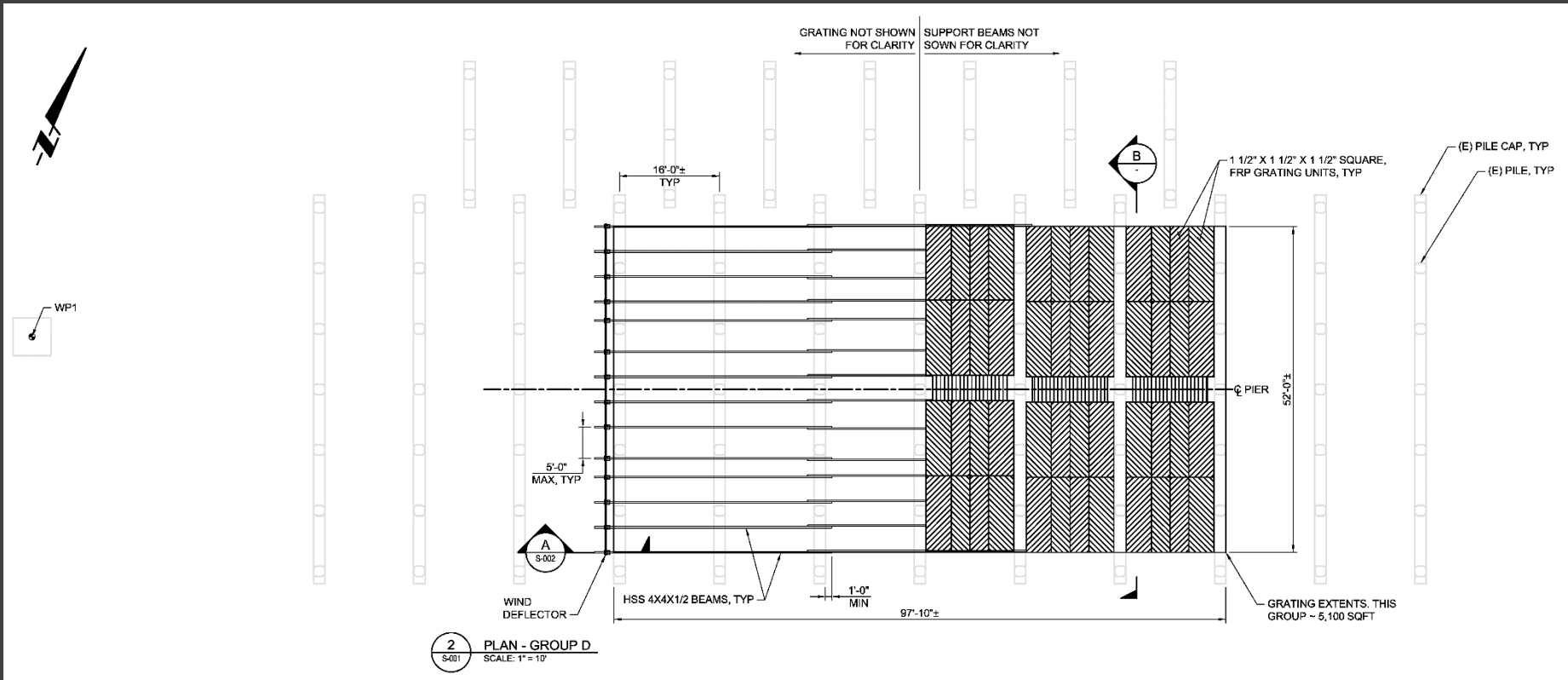
Existing Structure Deterioration and Bent selection





## Berkeley Pier Enhancement Project

Group D Area – Designated for Offshore Birds



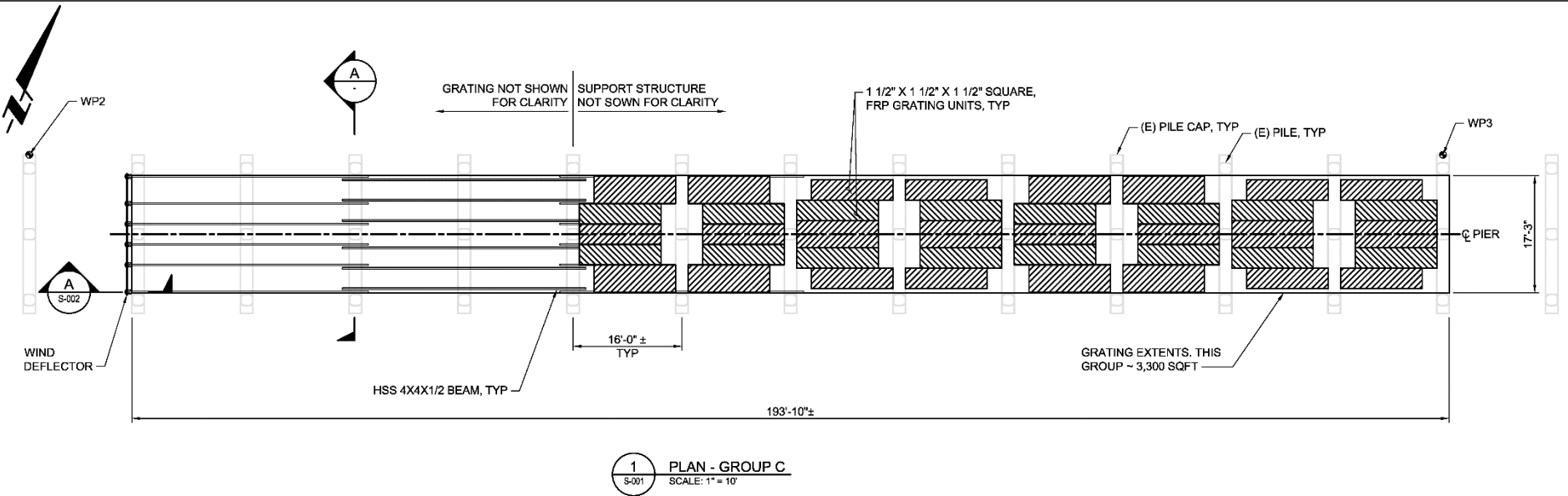
# Berkeley Pier Enhancement Project

Group D – Targeting Sea Birds  
Area = ~5,100 SQFT



## Berkeley Pier Enhancement Project

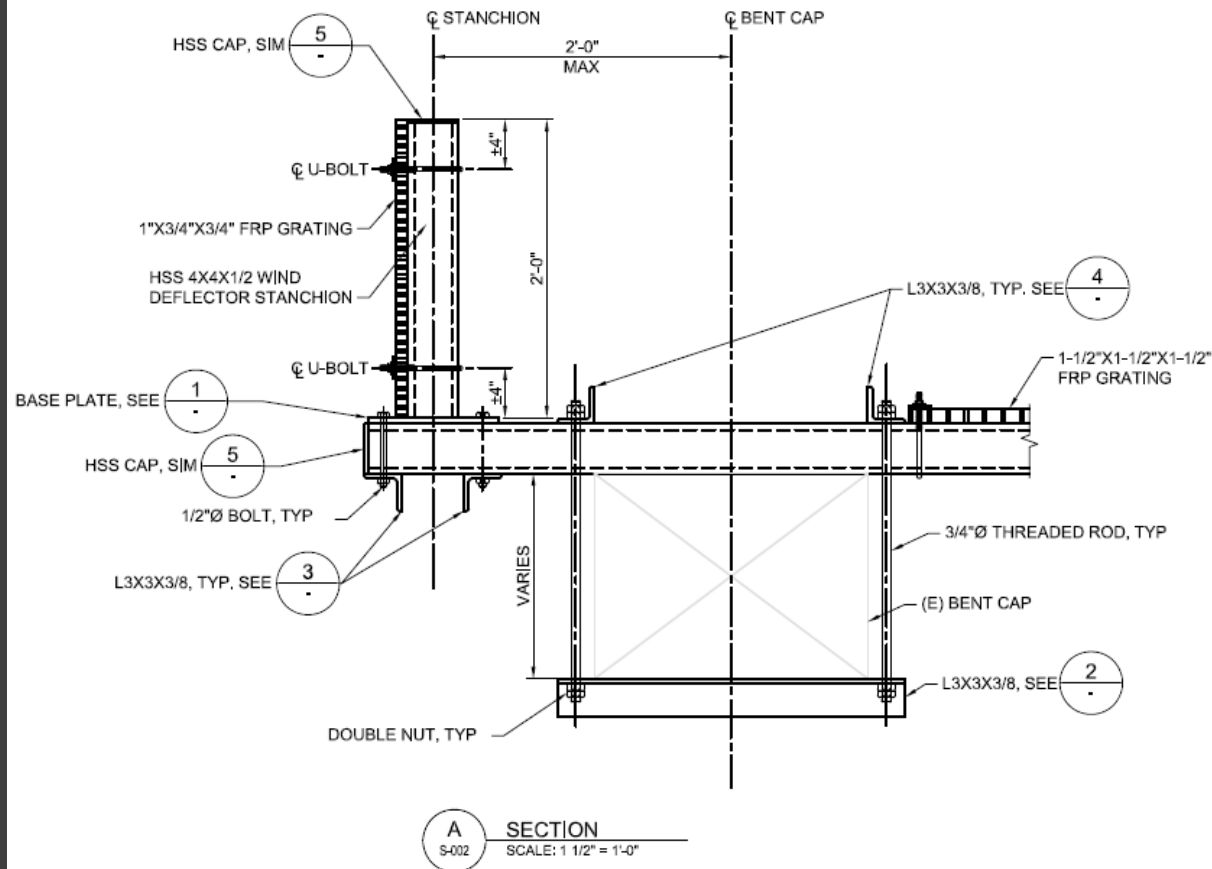
Group C Area – Targeting Shore Birds



# Berkeley Pier Enhancement Project

Group C – Layout  
Area = ~3,300 SQFT





# Berkeley Pier Enhancement Project

Typical section at wind deflector



# **Cosco Busan NRDA Berkeley Pier Bird Enhancement Project**

Current and Potential Future Bird  
Use of the Pier Following  
Enhancements

Mark Rauzon  
Marine Endeavors





## Berkeley Pier Enhancement Project

Speedboat blasts past near end of Berkeley Pier. Some shorebirds are disturbed by fast approach.. Others remain at roost.





## Berkeley Pier Enhancement Project

Tour boat with a slower approach passed near end of pier. Gulls remain in place.





## Berkeley Pier Enhancement Project

West, distal end of pier where 5000 sq ft of decking will take place. Brandt's cormorants and western gulls are pictured.





## Berkeley Pier Enhancement Project

West, distal end of pier where 5000 sq ft of decking will take place, starting behind the timbers and going back about 80 feet, or 5 sets of piling caps.





## Berkeley Pier Enhancement Project

Aerial view of base of Berkeley Pier where  
a ferry terminal may be built





## Berkeley Pier Enhancement Project

Middle section of pier piling caps that would be made as a shorebird roost (3,000 sq. ft.).





## Berkeley Pier Enhancement Project

Winter densities of sandpipers near the eastern end of the pier, which was to be made into a public viewer area.



# Discussion & Questions



Bird photos by Bob Dang