



Beach Boulevard Seawall



City Council Meeting
February 8, 2016



The Beach Blvd Seawall was constructed in 2 phases



▶ 1984

Bella Vista to north of Pier

▶ 1987

▶ south of Pier to Clarendon

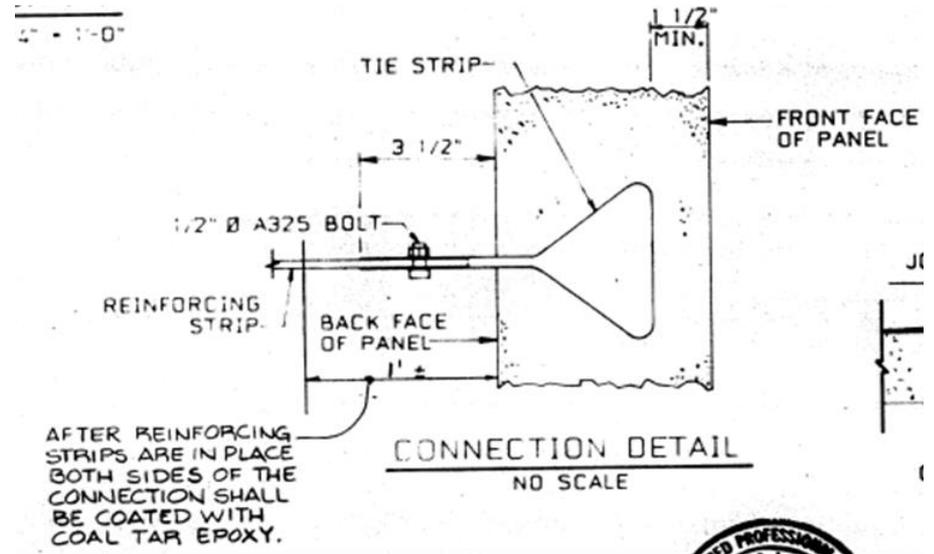


Phase 1 Cont'd

Photo of failed section shows detail of wave deflector, PVC peg and tie back strips



Detail of how 2 in. wide tie back strips are embedded in each tile.





1984 – Original Construction Photos of Phase 1



12" x 6" leveling course



Tie back strips

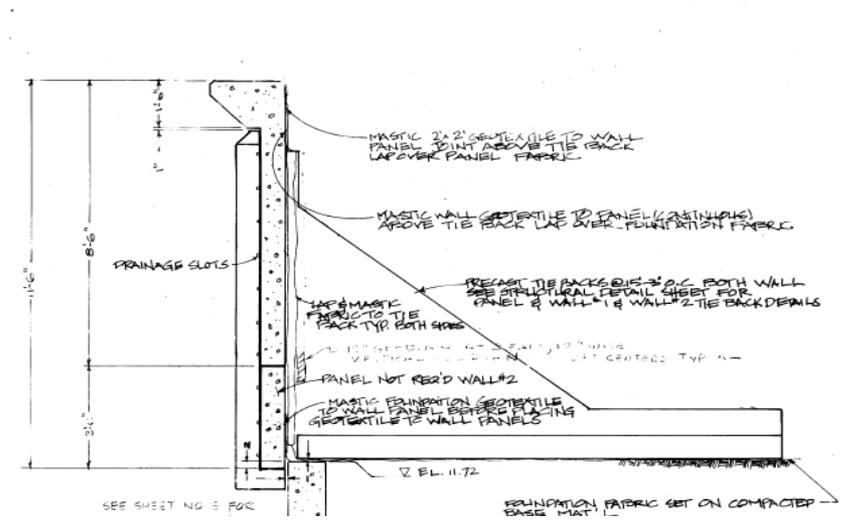
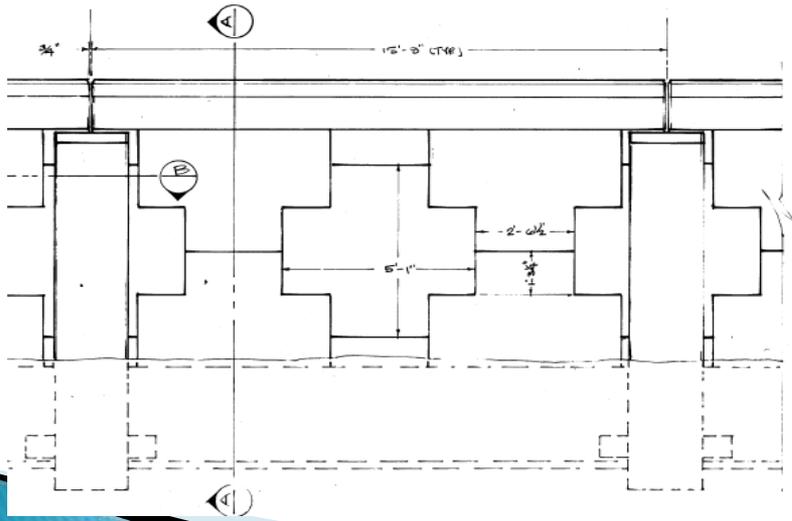


Tile placement



Phase 2 Concrete Panel Construction Overview

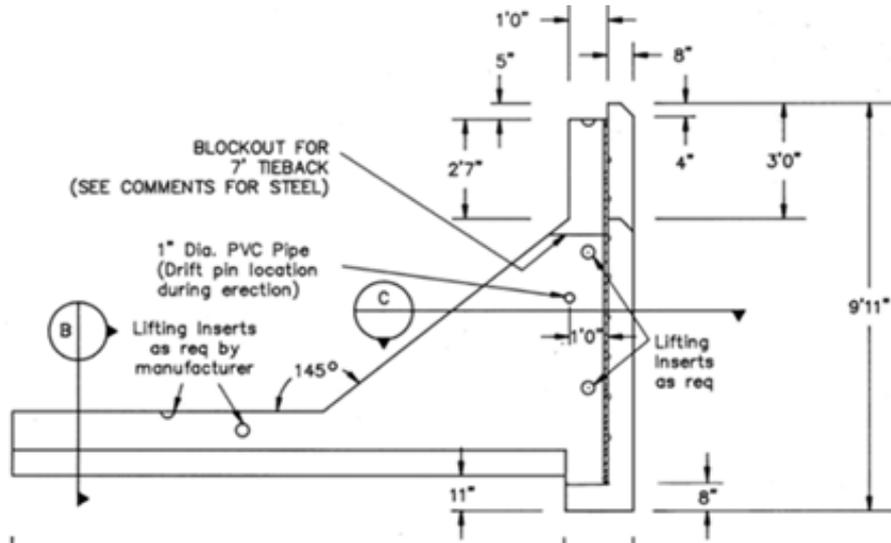
Constructed using solid precast concrete panels approximately 15' wide by 8' high by 8" thick. The panels are supported by a 12" wide by 5'-7' high concrete foundation and are held in place by concrete tie backs. Grooves are added to aesthetically match Phase 1 tile construction



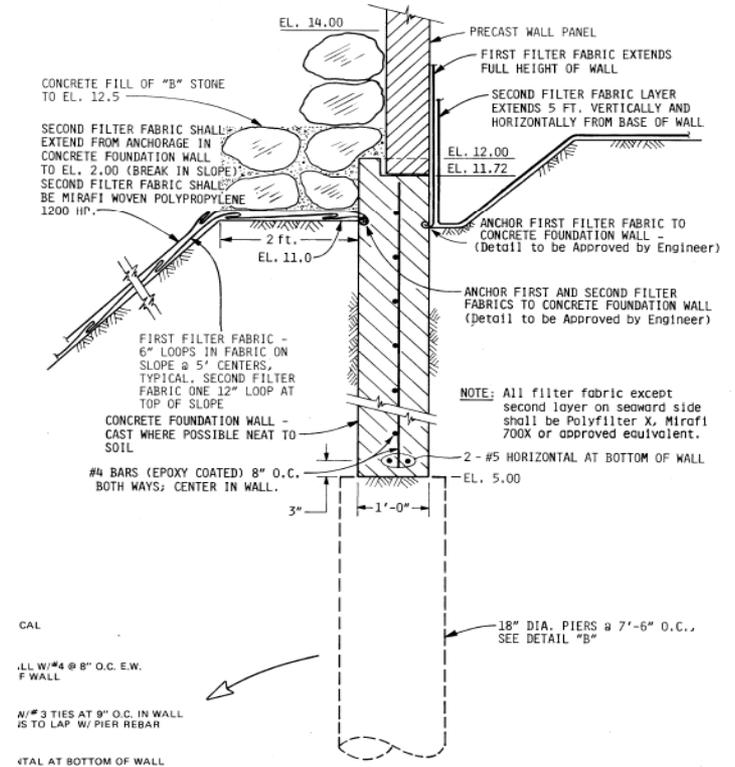


Panel Construction Details

Phase 2 Cont'd



Concrete Tie back Detail



Concrete Foundation Detail



On January 17, 2016, DPW staff discovered a sink hole at the promenade (intersection of Beach Blvd. and Santa Maria Avenue)





January 17, 9:00 a. m.

8 - 10 ton rocks being placed by DPW inside the void to protect and preserve the material underneath the promenade from further eroding due to the powerful waves





Crashing waves of January 22nd caused the collapse of the sea wall cap/wave deflector



Also, on Jan. 22nd the City Manager proclaimed a State of Emergency for the City, which Council confirmed on Jan. 25



Current condition of failed sea wall section



DPW staff also added 6' high chain link fence and continue to monitor the area



Sea Wall Repair Plan

**CITY OF PACIFICA
SEAWALL EMERGENCY
PACIFICA, CALIFORNIA**

PROJECT LOCATION

VICINITY MAP
NTS

PROJECT LOCATION

LOCATION MAP
NTS

NOTES:
 1. THE INTENT OF THESE DRAWINGS ARE TO SHOW THE OVERALL CONFIGURATION OF EMERGENCY REPAIRS TO BE CONDUCTED AS SOON AS POSSIBLE.
 2. FIELD VERIFY AND ADJUST DIMENSIONS TO ALLOW CONSTRUCTION. NOTIFY ENGINEER OF MATERIAL CHANGES TO CONFIGURATION AND MATERIALS.

NOTE:
BACKGROUND AERIAL PHOTO SHOWN FOR LOCATION MAP IS FROM GOOGLE EARTH 2014

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| CITY OF PACIFICA SEAWALL EMERGENCY TITLE SHEET | 1 |
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JANUARY 28, 2016

NOTES:
 ① GRADE LEVEL PAD
 ② PLACE CONCRETE WALL, SEE SHEET 3 FOR DETAIL
 ③ SLURRY BLOCK

A PLAN
SCALE: 3/16"=1'-0"

B SECTION
SCALE: 3/16"=1'-0"

C ELEVATION
SCALE: 3/16"=1'-0"

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| CITY OF PACIFICA SEAWALL EMERGENCY REPAIRS PLAN, ELEVATION AND SECTION (EXISTING CONDITION) | 2 |
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Site Plan

Plan view

B SECTION
SCALE: 1/2"=1'-0"

NOTES:
 REMOVE (E) RIP RAP PLACED FOR EMERGENCY STABILIZATION AS REQUIRED

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| CITY OF PACIFICA SEAWALL EMERGENCY REPAIRS DETAILS | 3 |
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Cross-section



Beach Boulevard Sea Wall Emergency Repair



Questions?

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