Naples Seawall Repairs
Phase One
Guide to the New Seawalls
Project Overview

WHAT | WHY | GOALS | CONSTRAINTS | TIMELINE
What

Construct new seawalls, which will consist of steel piles with a concrete cap.

Current Seawall

Lido Seawall, Newport Beach
Why

• “...it is our opinion that some sections of the canal seawalls have a significant risk of ‘global’ failure due to their present deteriorated condition, if the site experiences a ‘moderate” near-source earthquake.’”

• Phase One area: “...bending failures are ‘probable’ anytime within the next 5 years and ‘expected’ should the site experience a moderate earthquake before the sheet piling can be replaced.

Naples Seawalls Stability Investigation and Repair Recommendations prepared by Transystems, April 2009
Where

The new seawalls will be installed in 6 phases.
City Goals

1. **INVEST** in public infrastructure that literally supports Naples Island, an important part of Long Beach

2. **PRESERVE** Naples for the next 70 years

3. **ENHANCE** by incorporating the latest in safety and accessibility standards
Process

Investigation
- 2009 Transystems Study
- Council Approved Funding

Design
- Evaluation of waterside & landside options
- Engineering plans & designs
- Community Input

Approval & Plan Check
- City Plan Check
- California Coastal Commission
- Army Corps & RWQCB

Construction
- Bids received
- Award pending Council approval
- Construction begin in spring/summer
Seawall Design

RENDERINGS | WALL & CAP DESIGN | PARKWAY | BENChES | DRAINAGE | GANGWAYS & LADDERS |
The Area

Public Right Of Way, Area of Discussion

Public Right Of Way With private Improvements

Private Property
Existing Conditions
Cap & Guardrail

Existing

Existing
Cap & Guardrail

Proposed

Existing

Anchoring for landings

City of Long Beach | Tidelands Capital Improvement Projects Office 1/15/14
Cap & Guardrail: Guardrail Design

Stainless steel railing with horizontal stainless steel cables.

- Safety: 42” near walking surface
  - Preserve view
  - Long Term Durability
Gates & Stairs

Proposed

Existing
Gates & Stairs
Gangways & Ladders
Gangways & Ladders

Proposed

Existing
Gangways

Proposed

TYPICAL FLOAT ACCESS PLATFORMS AND PIPE MOORINGS PLAN

AFTER REINSTALLATION OF NEW SHEET PILE WALL
Gangways & Ladders

Proposed

Existing
Parkway

Existing

Proposed
Parkway

- Planter boxes are NOT allowed; they put too much weight on the wall.
- Hardscape will not be allowed on the seaward side.
- Landscaping only – subject to approved guidelines.
Benches
Drainage

• Water Quality Improvements
  • Filtered
• Significantly Decrease Flooding

(1) Drain inlet
(2) gutter
(3) curb
Lighting
Remove & replace with new fixtures similar to others found on the island.

Existing Light Poles & Fixtures

Lighting near Colonnade
(preferred design)
# Cap Design

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>Option 1</th>
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<tbody>
<tr>
<td>Parkway Elevation</td>
<td>4 inches (varies)</td>
<td>4 inches</td>
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<tr>
<td>Cap Height</td>
<td>18 inches (varies)</td>
<td>24 inches</td>
</tr>
<tr>
<td>Guardrail Height</td>
<td>27 inches</td>
<td>24 inches</td>
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<tr>
<td>Combined Curb, Wall, &amp; Guardrail Height</td>
<td>49 inches (varies)</td>
<td>52 inches</td>
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<tr>
<td>Ledge</td>
<td>Yes</td>
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</tbody>
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Communication

- If you have comments or questions regarding the Naples Seawalls Repair Project, please contact Rachael Tanner, Management Assistant in the City Manager’s Office, at 562-570-6190 or Rachael.Tanner@longbeach.gov
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