



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



cap

Lido Seawall, Newport Beach



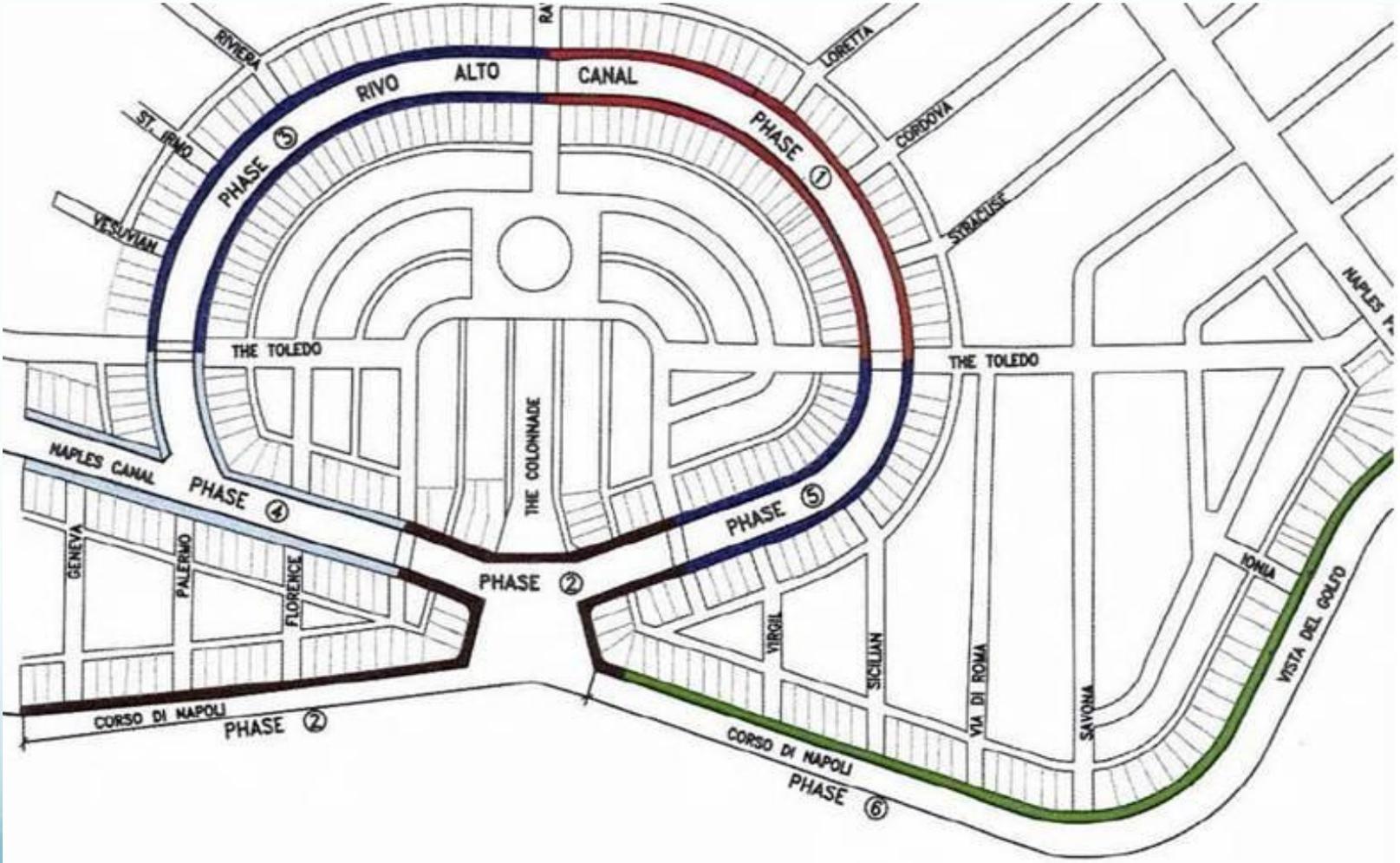
Why

- “...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

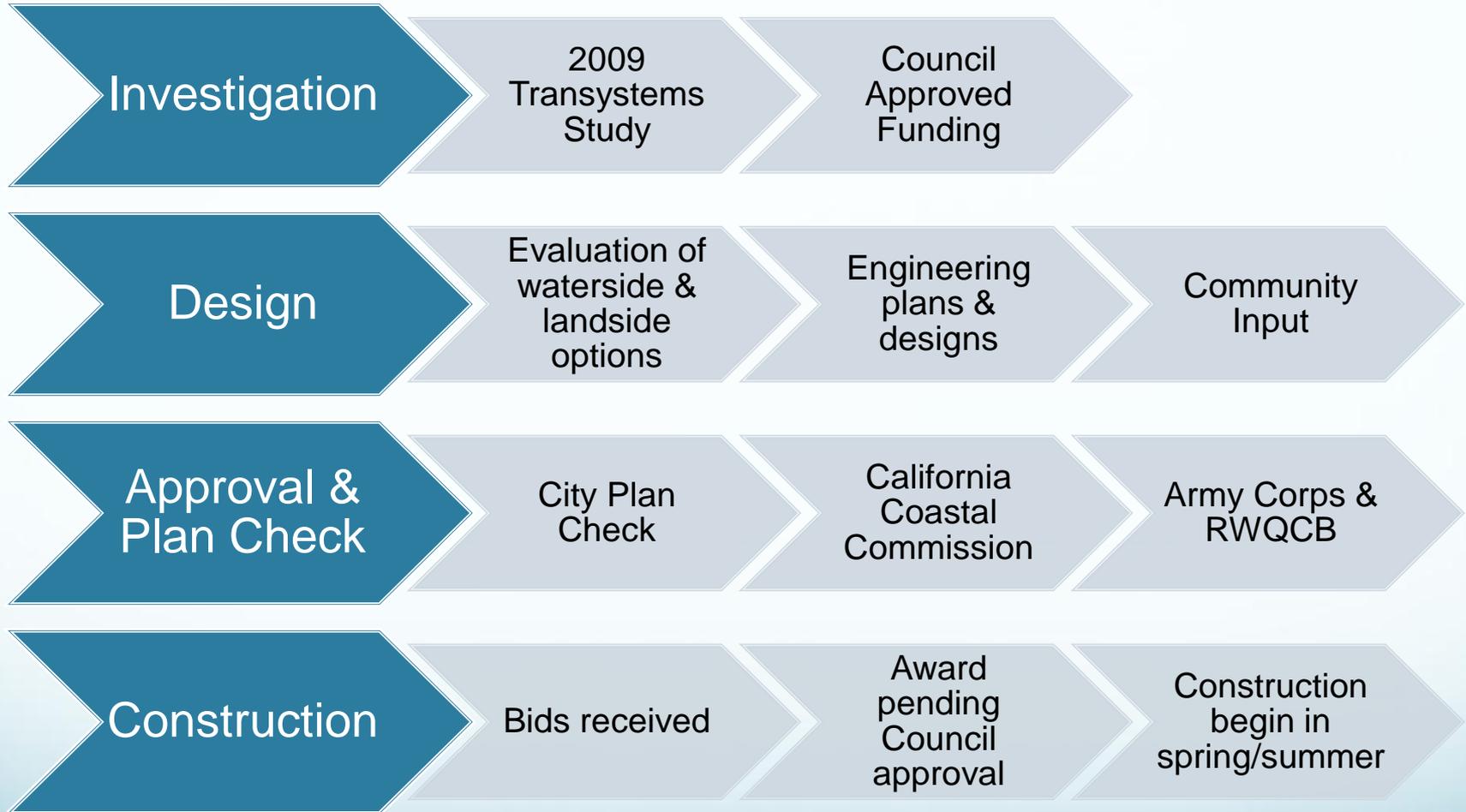
The new seawalls will be installed in 6 phases.



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

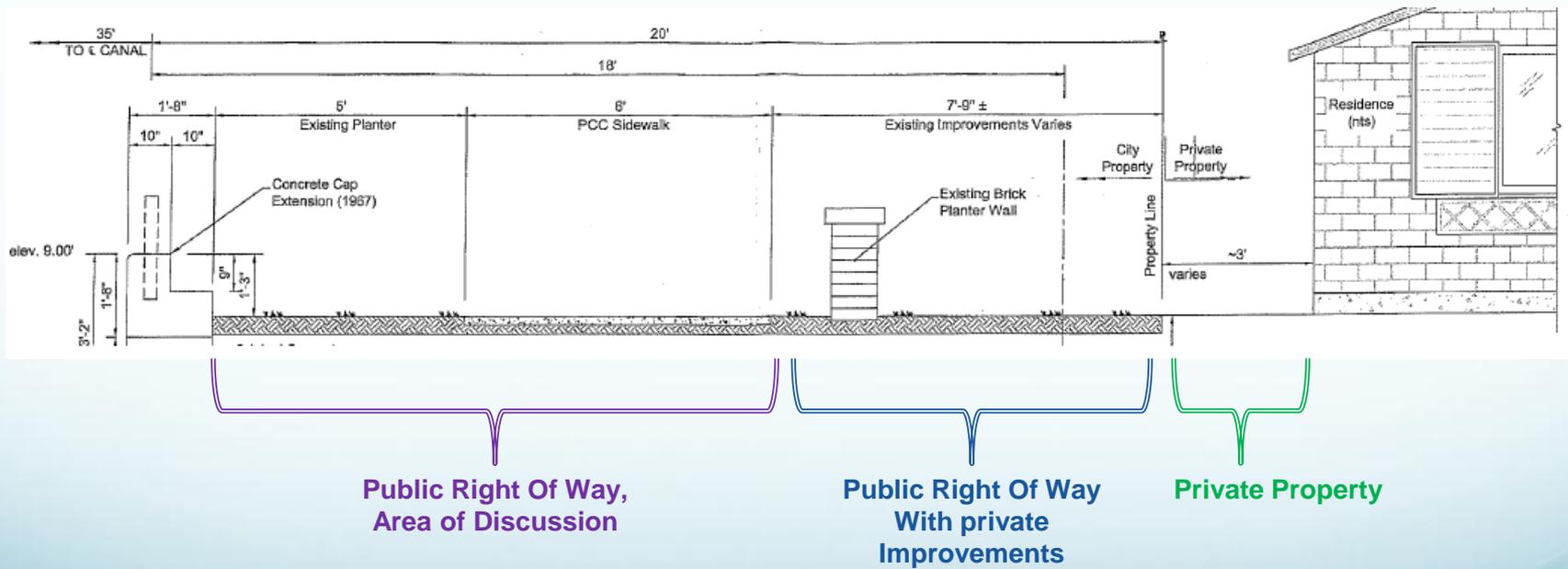




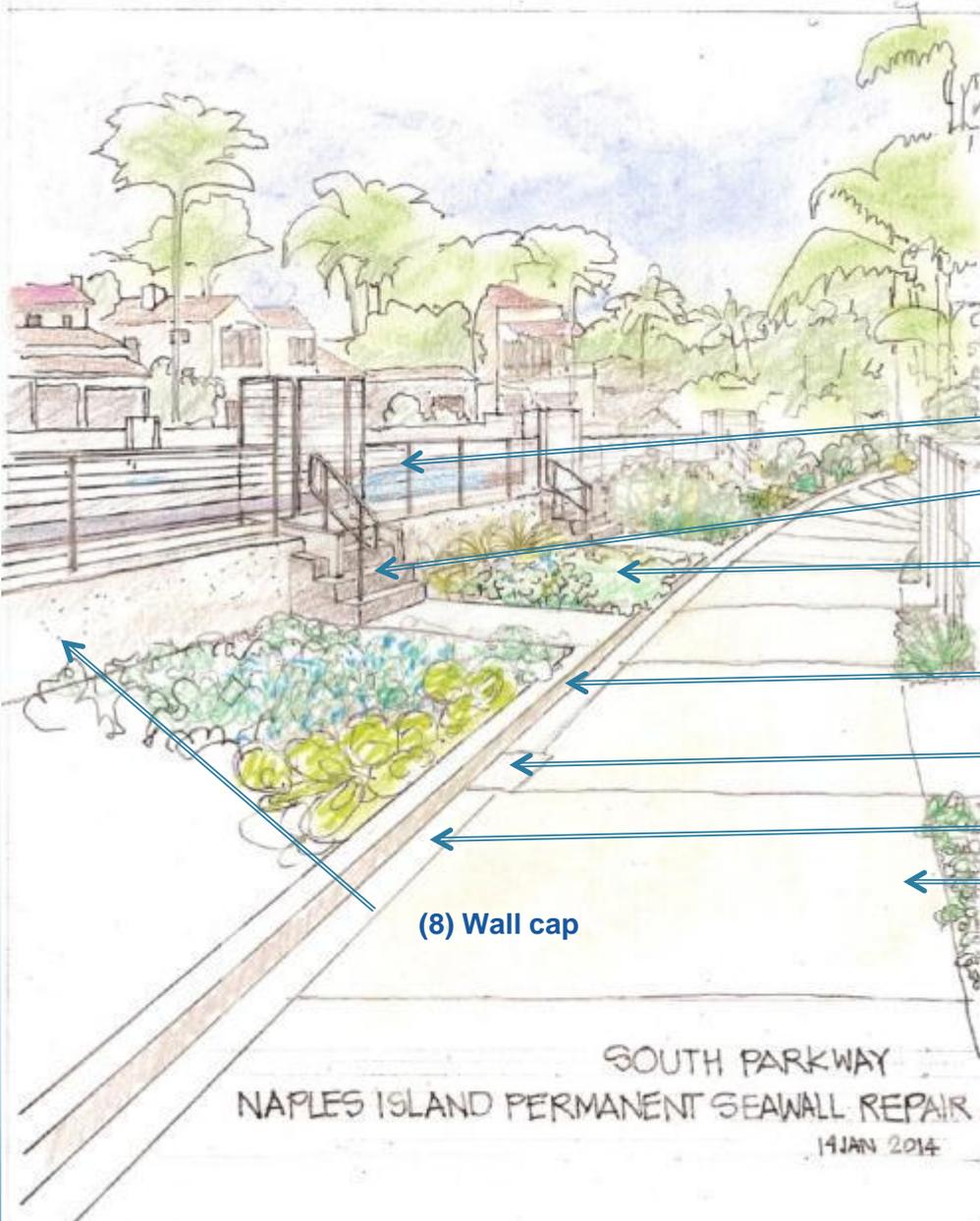
Seawall Design

RENDERINGS | WALL & CAP DESIGN | PARKWAY | BENCHES | DRAINAGE |
GANGWAYS & LADDERS |

The Area



Overview Proposed Design



(7) guardrail

(6) Stairs & handrail

(5) parkway

(4) curb

(3) Drain inlet

(2) gutter

(1) sidewalk

(8) Wall cap

SOUTH PARKWAY
NAPLES ISLAND PERMANENT SEAWALL REPAIR
14 JAN 2014

Existing Conditions



Cap & Guardrail

Existing



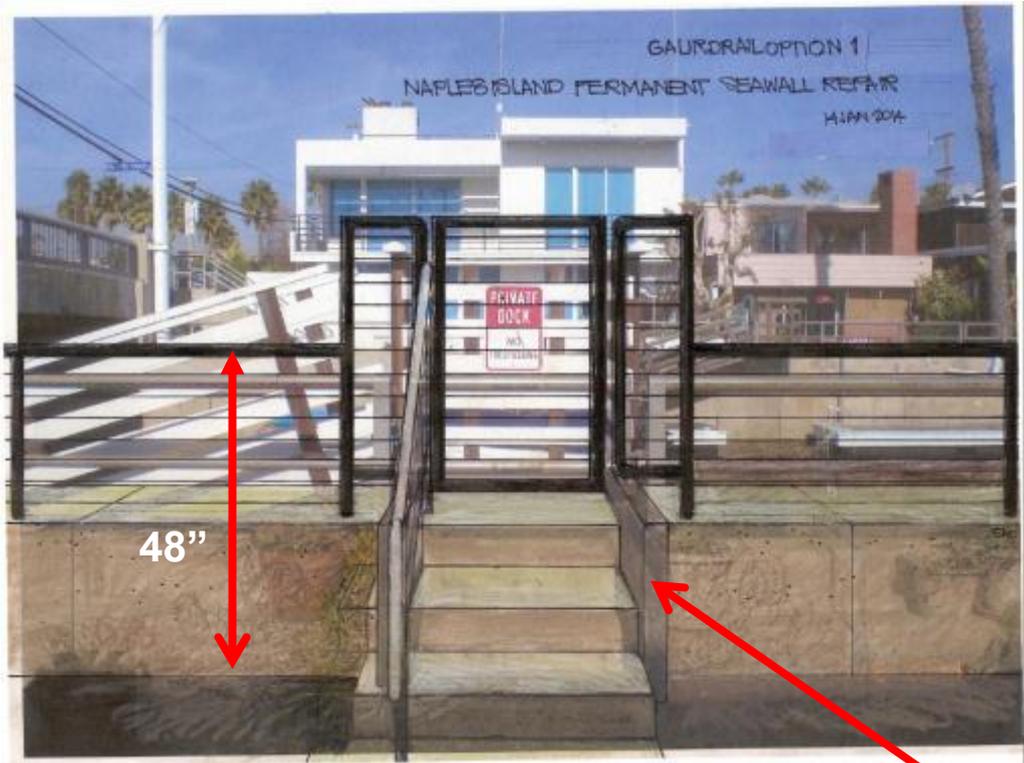
Existing



Cap & Guardrail

Proposed

Existing



Anchoring for landings

Cap & Guardrail: Guardrail Design

Stainless steel railing with horizontal stainless steel cables.

- Safety: 42" near walking surface
 - Preserve view
 - Long Term Durability

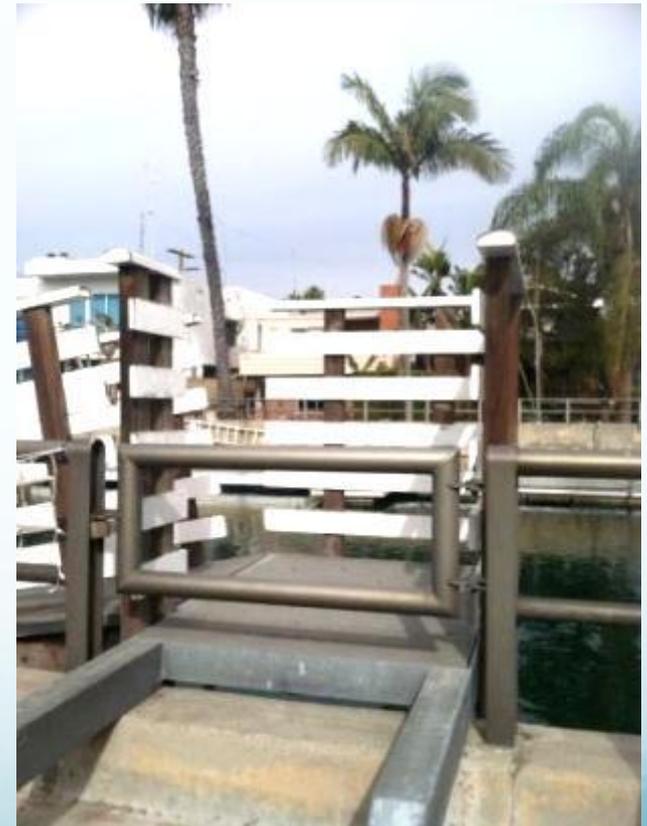


Gates & Stairs

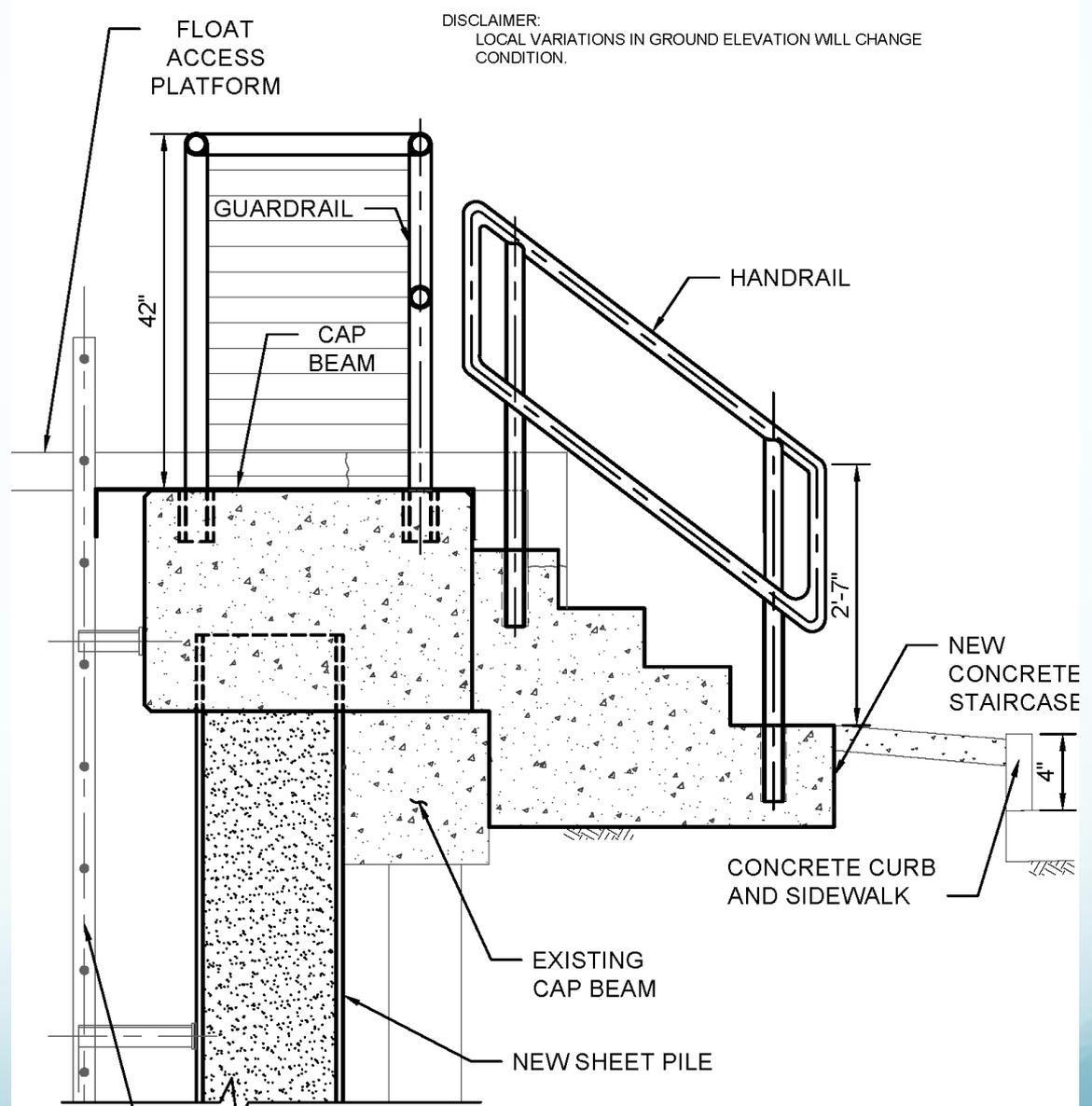
Proposed



Existing



Gates & Stairs

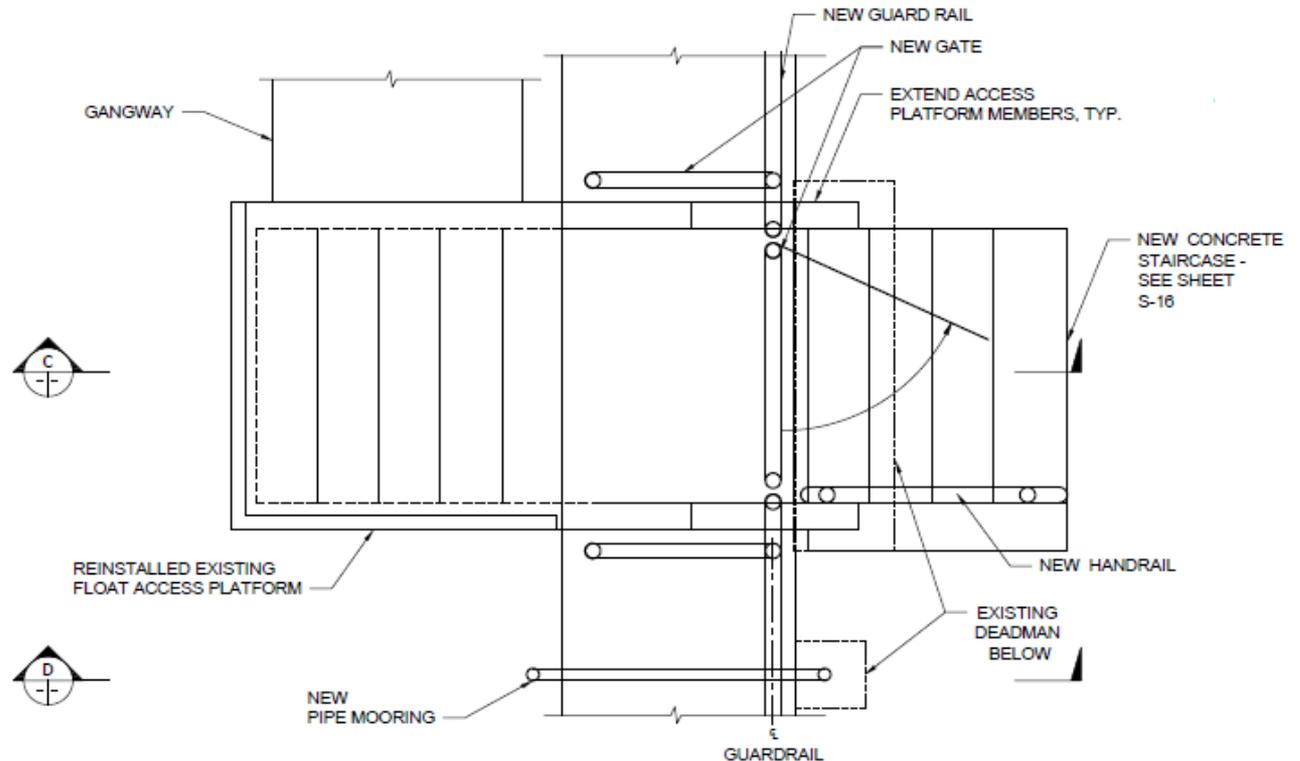


Gangways & Ladders



Gangways

Proposed



**TYPICAL FLOAT ACCESS PLATFORMS AND PIPE MOORINGS PLAN
AFTER REINSTALLATION OF NEW SHEET PILE WALL**

2
1/4" = 1'-0"



Gangways & Ladders

Proposed

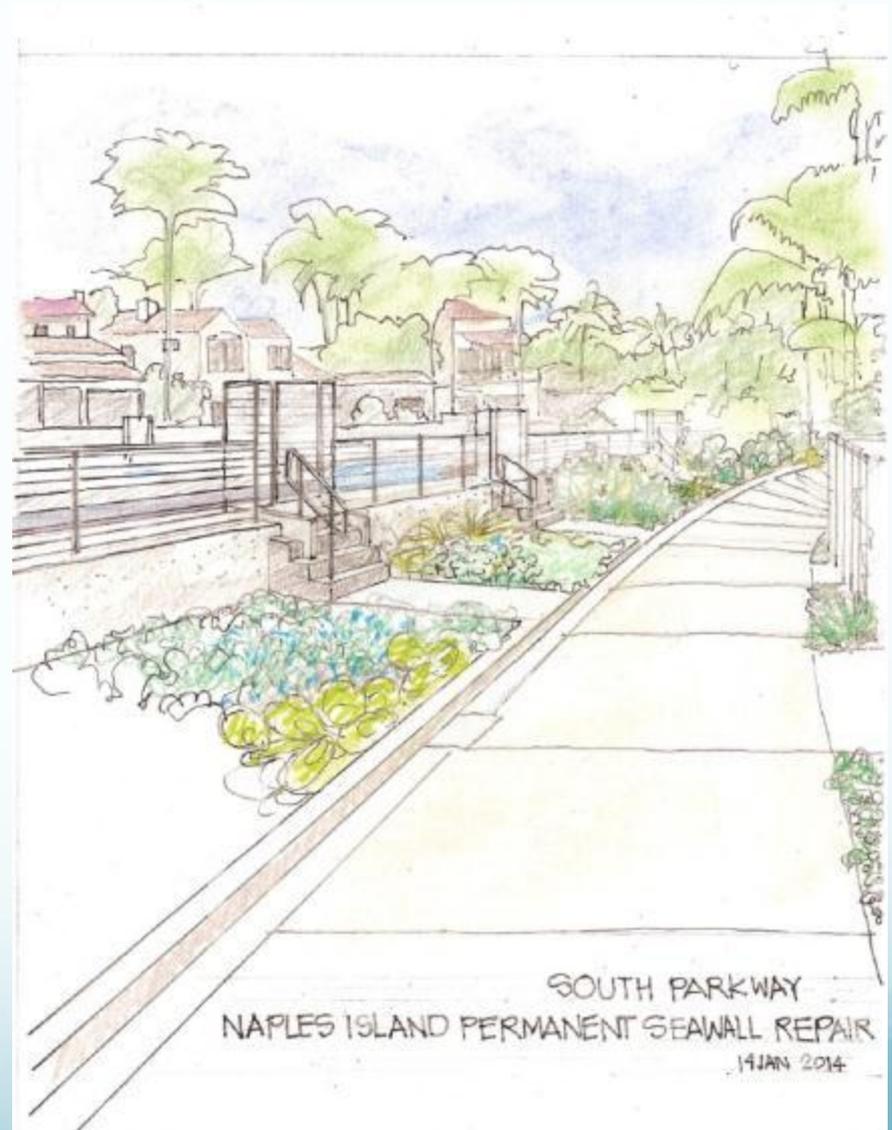
Existing



Proposed

Parkway

Existing

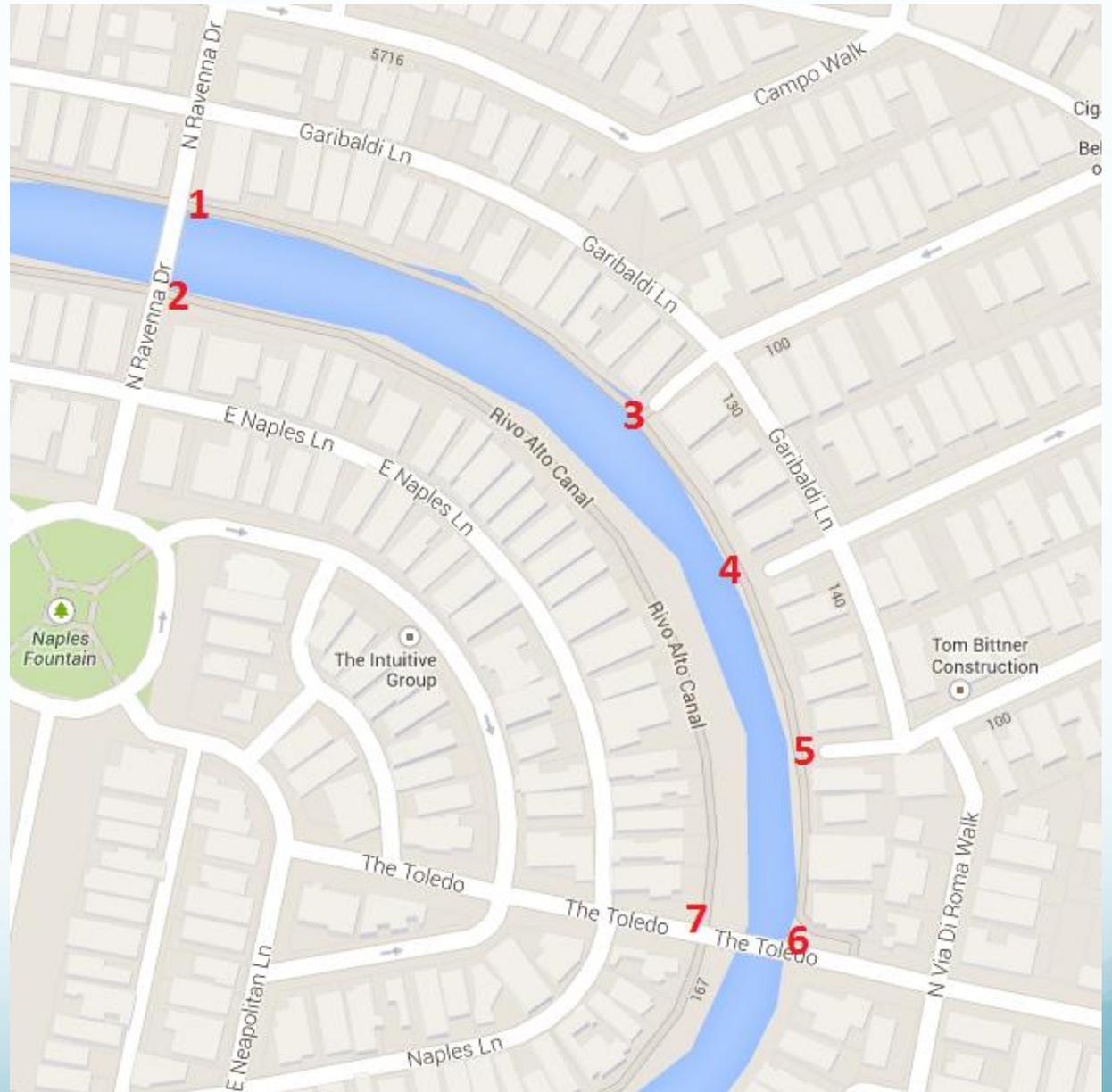


Parkway

- 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



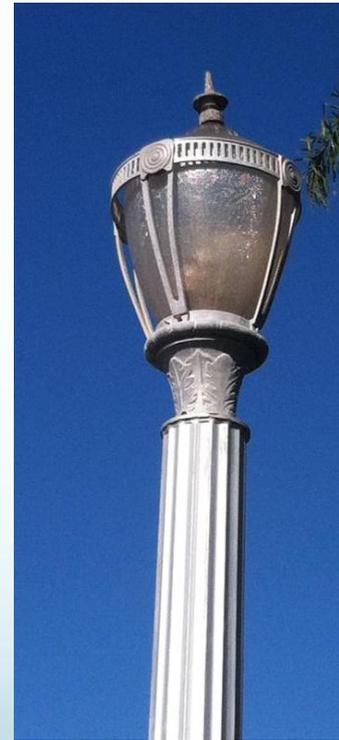
Lighting

Remove & replace with new fixtures similar to others found on the island.

Existing Light Poles & Fixtures



Lighting near Colonnade (preferred design)



Cap Design

	Existing	Option 1
Parkway Elevation	4 inches (varies)	4 inches
Cap Height	18 inches (varies)	24 inches
Guardrail Height	27 inches	24 inches
Combined Curb, Wall, & Guardrail Height	49 inches (varies)	52 inches
Ledge	Yes	No

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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