



Naples Island Seawalls Assessment Update

June 2023

Naples Seawalls Assessment Update

Agenda

1. Team Introductions
2. Background and Purpose
3. Seawalls Assessment Logistics
4. Next Steps

Naples Seawalls Assessment Update

Introductions

- Public Works/Project Management
- Parks, Recreation and Marine
- Engineering Team

Naples Seawalls Assessment Update

Background

- 2008 – City hired TranSystems, Inc. to conduct a comprehensive seawalls assessment.
 - Transystems evaluation was a very comprehensive report that included:
 - A full history of the site, seawalls and construction
 - Top deck survey including flatwork, subsidence, seawall cap, raised planters and sinkholes
 - Railing Survey
 - Waterside survey including storm drains, seawall cap, dock guide piles, seawall corners, sheet pile gaps, voids and rotation and sulfate deterioration
 - Storm drain and light pole surveys
 - Hydrographic survey
 - Seawall Stability Analysis
- 15 years since the TranSystems report was completed.

Naples Seawalls Assessment Update

Comprehensive Seawall Assessment Basics

- **Purpose of Updated Assessment**

- Perform assessment to document the current known state and condition of the existing seawalls (including seawall cap, guardrail, sidewalks, and other elements of the City owned property)
- Identify areas of immediate concern
- Update/provide priority assessment of seawall replacement phases
- Provide priority assessment of areas of immediate concern
- Develop rough order magnitude costs for remaining seawall phases

Naples Seawalls Assessment Update

History

- **2011** - the City began developing design options, regulatory engagement and permitting for the Phase 1 Seawalls Repairs;
 - Construction contract: began May 2014 and substantially complete Oct 2015
- **2012-2014** - the City began developing the mitigation plan for all 6 Phases of seawalls impacts. Compensatory Mitigation established at Colorado Lagoon for shallow subtidal loss.
- **2018** - City began design and permitting of Phase 2 Seawalls;
 - Construction contract: began Oct 2019 and substantially complete Oct 2020

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What will the assessment look like?

- Landside and waterside elements of each property will be inspected on separate occasions.
- Work hours Monday- Friday 7am – 4pm
- Landside inspections (performed by TetraTech)
 - **Work:** Visual inspection including hand measurements, photos and notes
 - **Access:** Physical access will be from the City-owned property between seawall and property line
 - **Crews:** (2) engineers will take measurements and photos at each property.
 - **Duration:** Up to 30 minutes per property

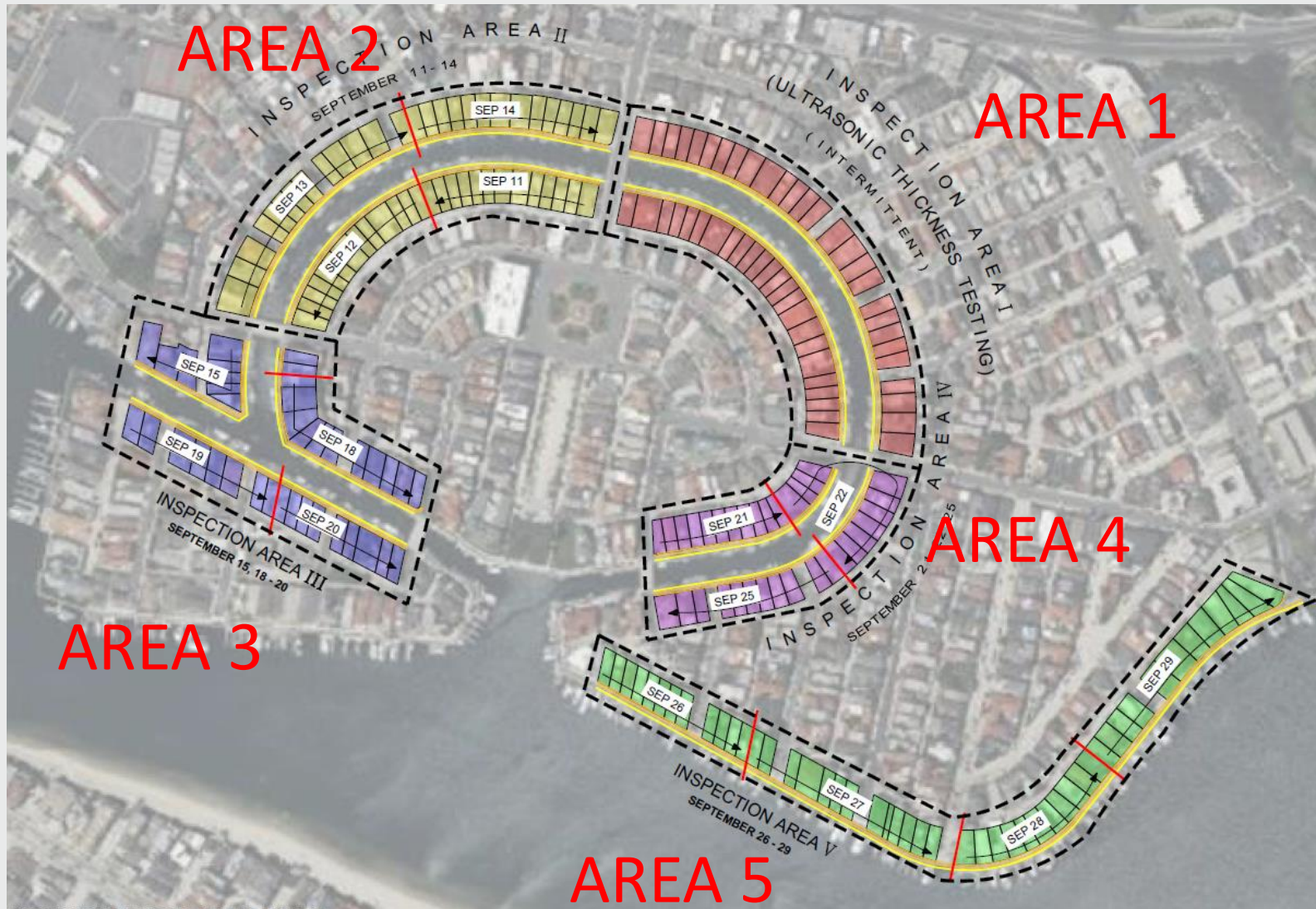
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What will the assessment look like?

- Waterside inspections (performed by American Marine)
 - **Work & Access:** Underwater diving from a dive barge
 - **Crews:** (2) Professional divers, (1) Dive Tender and (1) Engineer (Tetra Tech)
 - **Duration:** up to 30 minutes per property
 - **Noise:** equivalent to small Honda generator



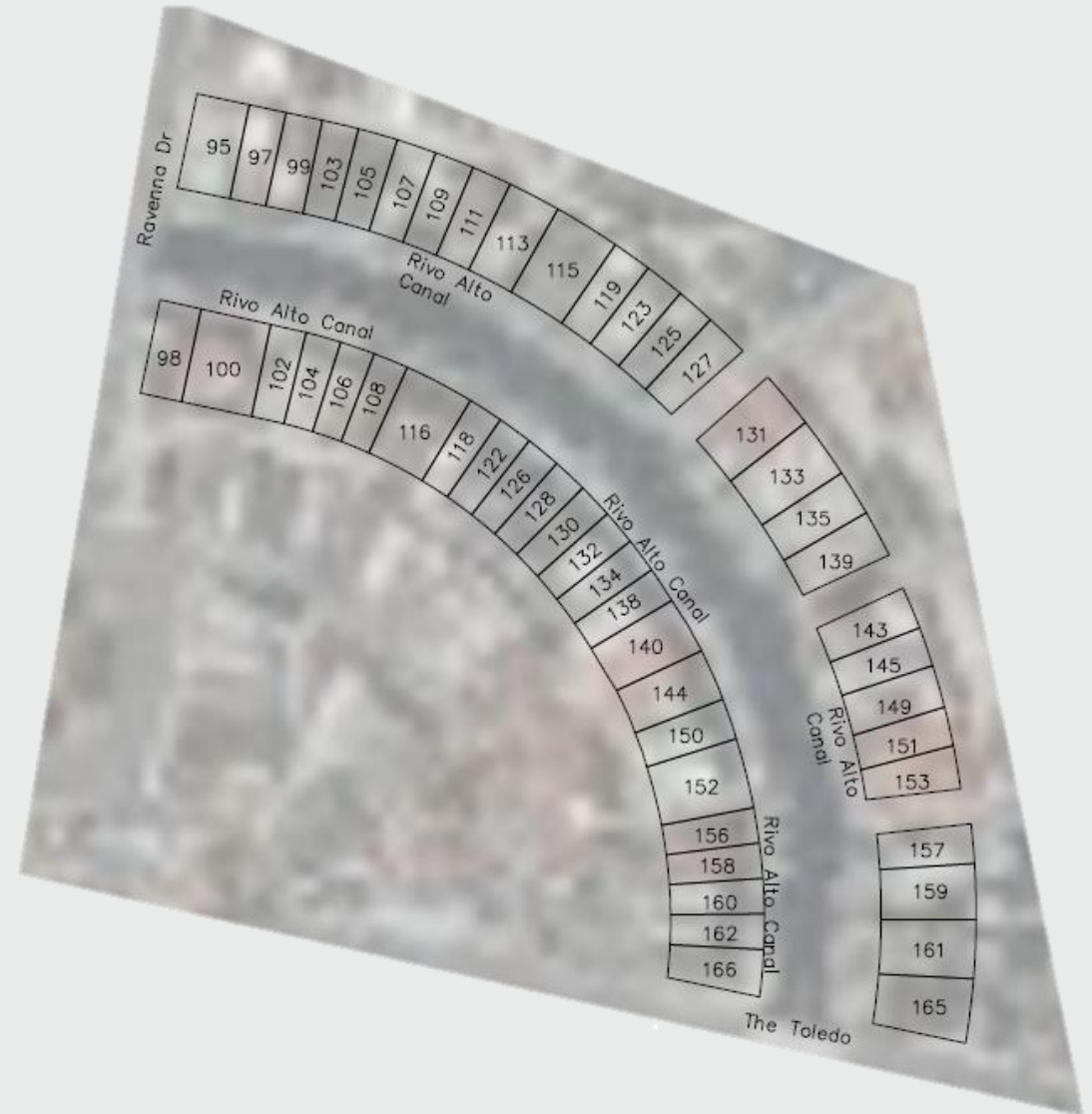
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AREA 1 – ULTRASONIC THICKNESS TESTING

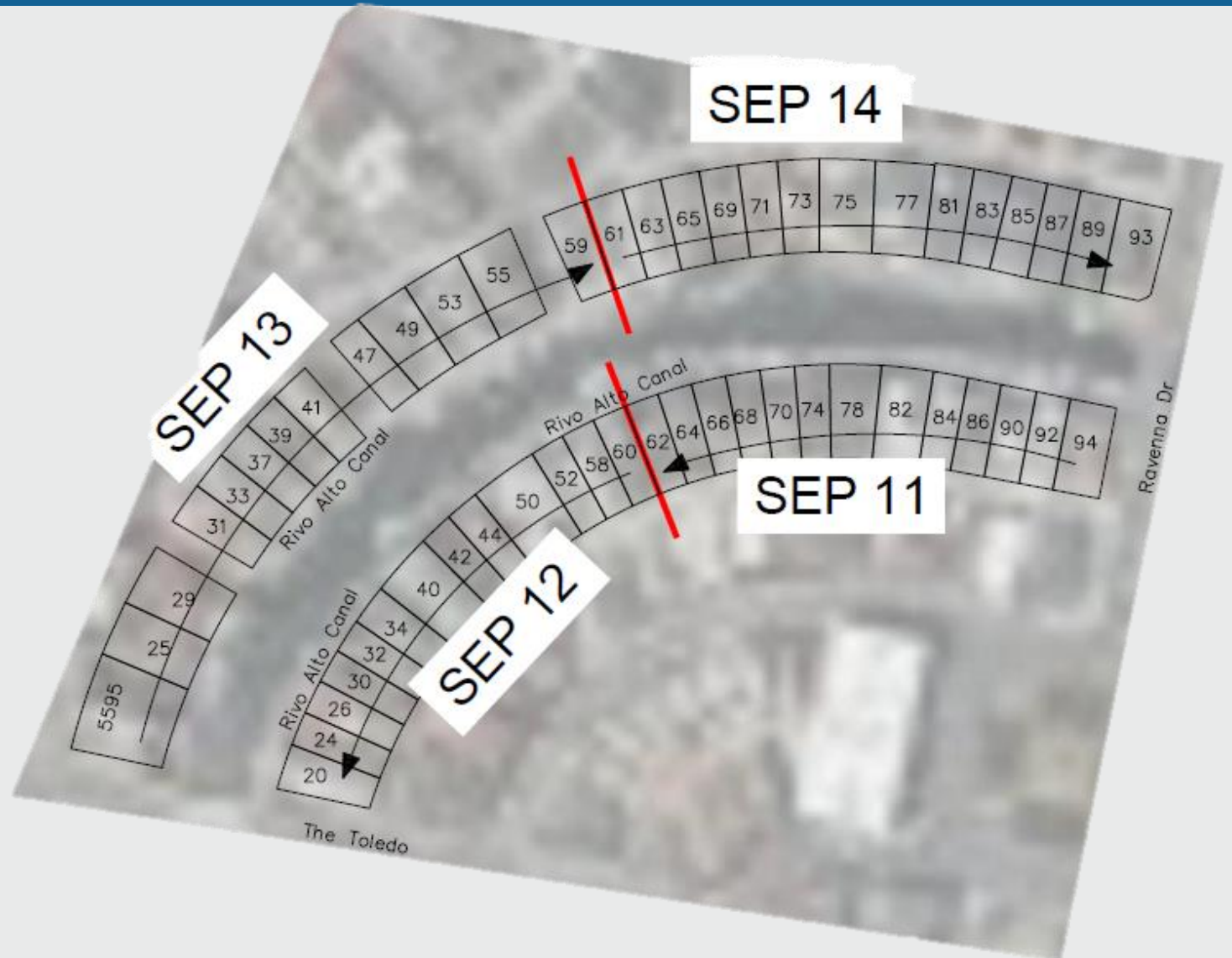
- Engineer access to private docks required.
- Measurements will be taken at low tide.
- Hand-held device will be held approximately 5 seconds along certain segments to measure the thickness of the steel sheet pile.
- 4 measurements will be taken every 10' of seawall
- below splash zone (~0' MLLW), in the splash zone (~+2.5' MLLW), above splash zone ~(5.0' MLLW) and top of sheet pile (~7.5' MLLW).



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AREA 2

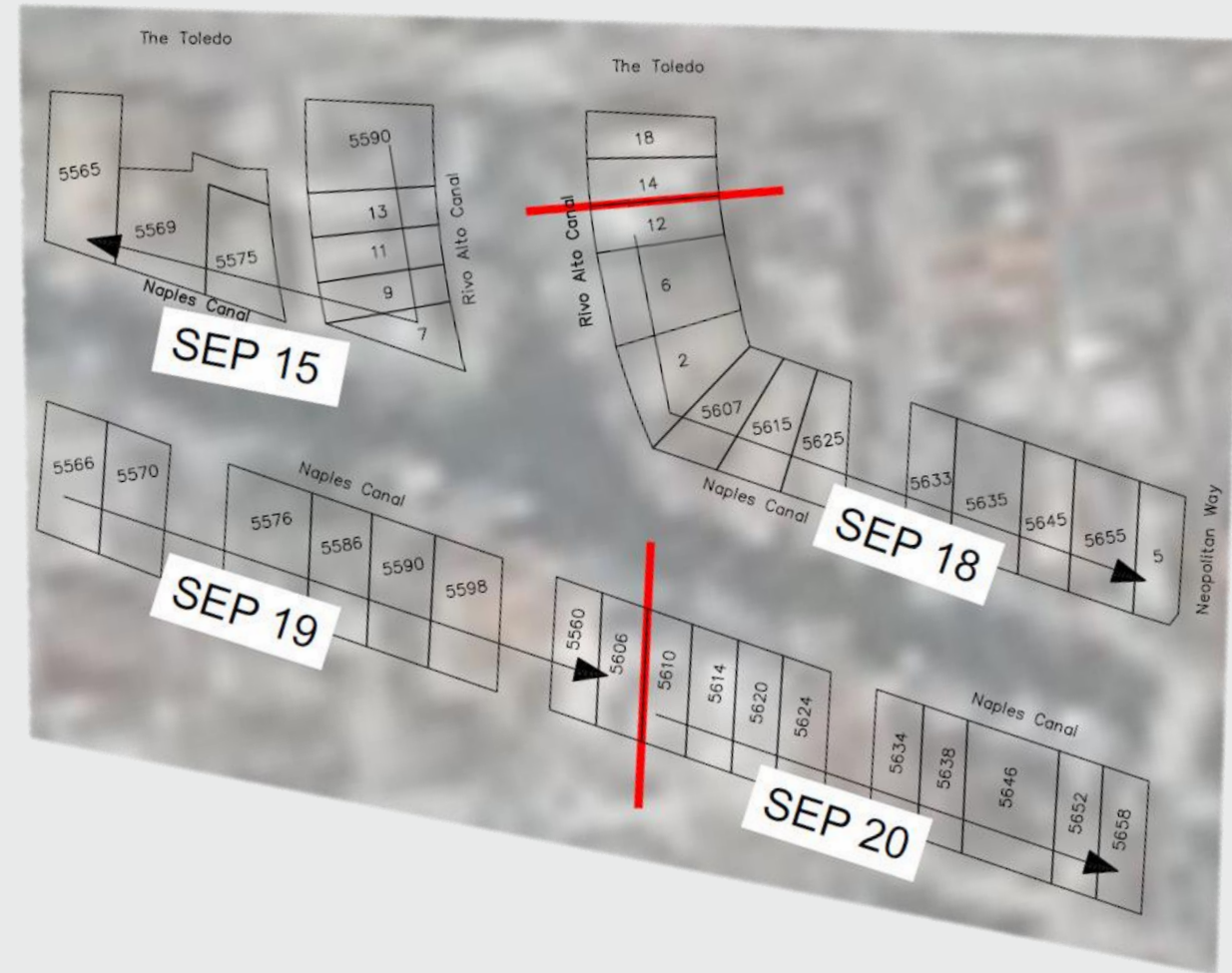
- Sept 11
 - 62-94 Rivo Alto Canal
- Sept 12
 - 20-60 Rivo Alto Canal
- Sept 13
 - 25-59 Rivo Alto Canal
 - 5595 E The Toledo
- Sept 14
 - 61-93 Rivo Alto Canal



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AREA 3

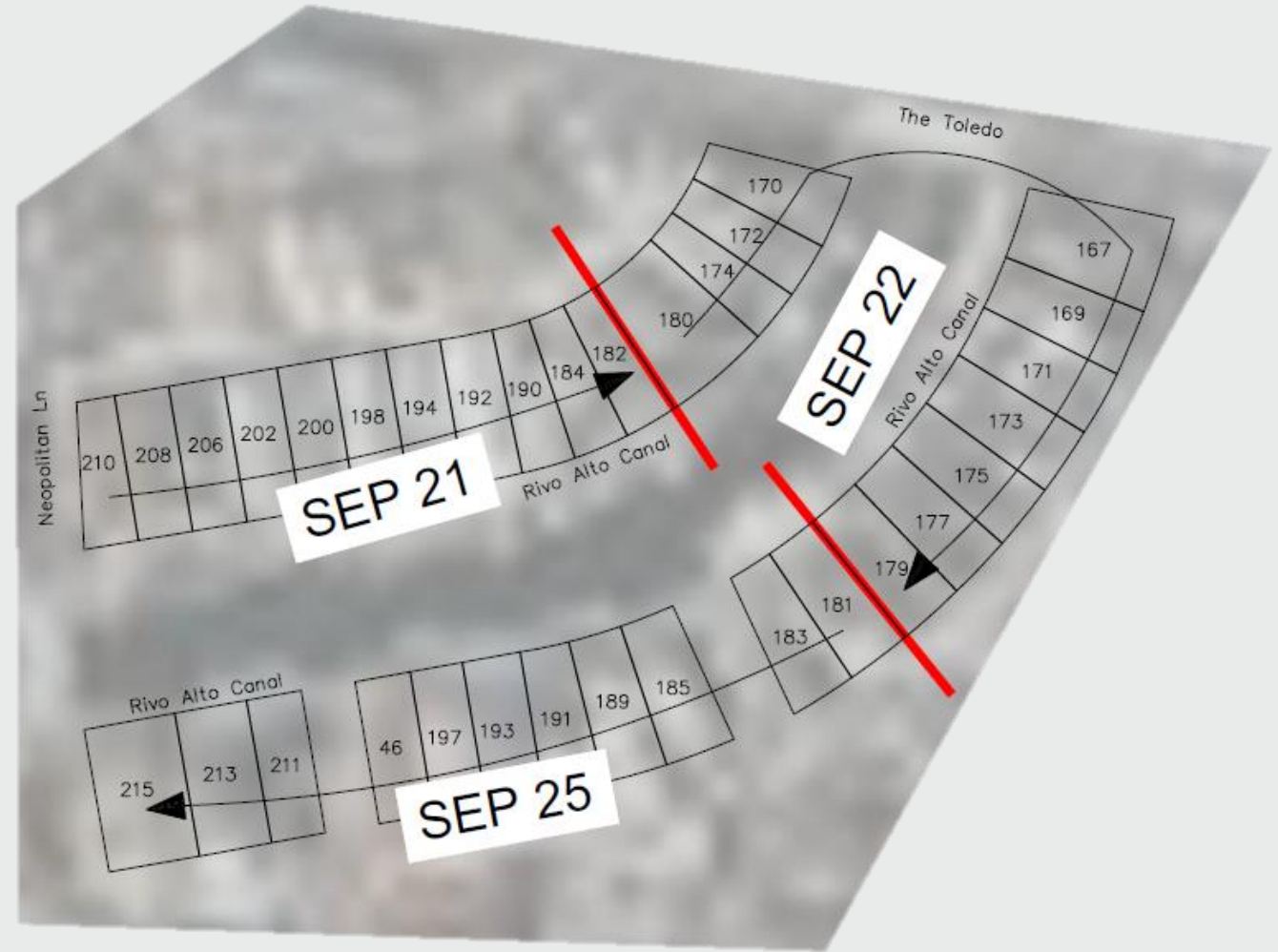
- Sept 15
 - 5590 & 5565 The Toledo,
 - 5569 & 5575 Naples Canal
 - 14 & 18 and 7, 9, 11, 13 Rivo Alto Canal
- Sept 18
 - 2, 6, 12 Rivo Alto Canal
 - 5607-5655 Naples Canal
 - 5 Neopolitan Ln
- Sept 19
 - 5566-5598 Naples Canal
 - 5560/5600-5506 Naples Canal
- Sept 20
 - 5610-5658 Naples Canal



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AREA 4

- Sept 21
 - 182-210 Rivo Alto Canal
- Sept 22
 - 170-180 and 167-179 Rivo Alto Canal
- Sept 25
 - 181-215 Rivo Alto Canal & 46 Virgil Walk

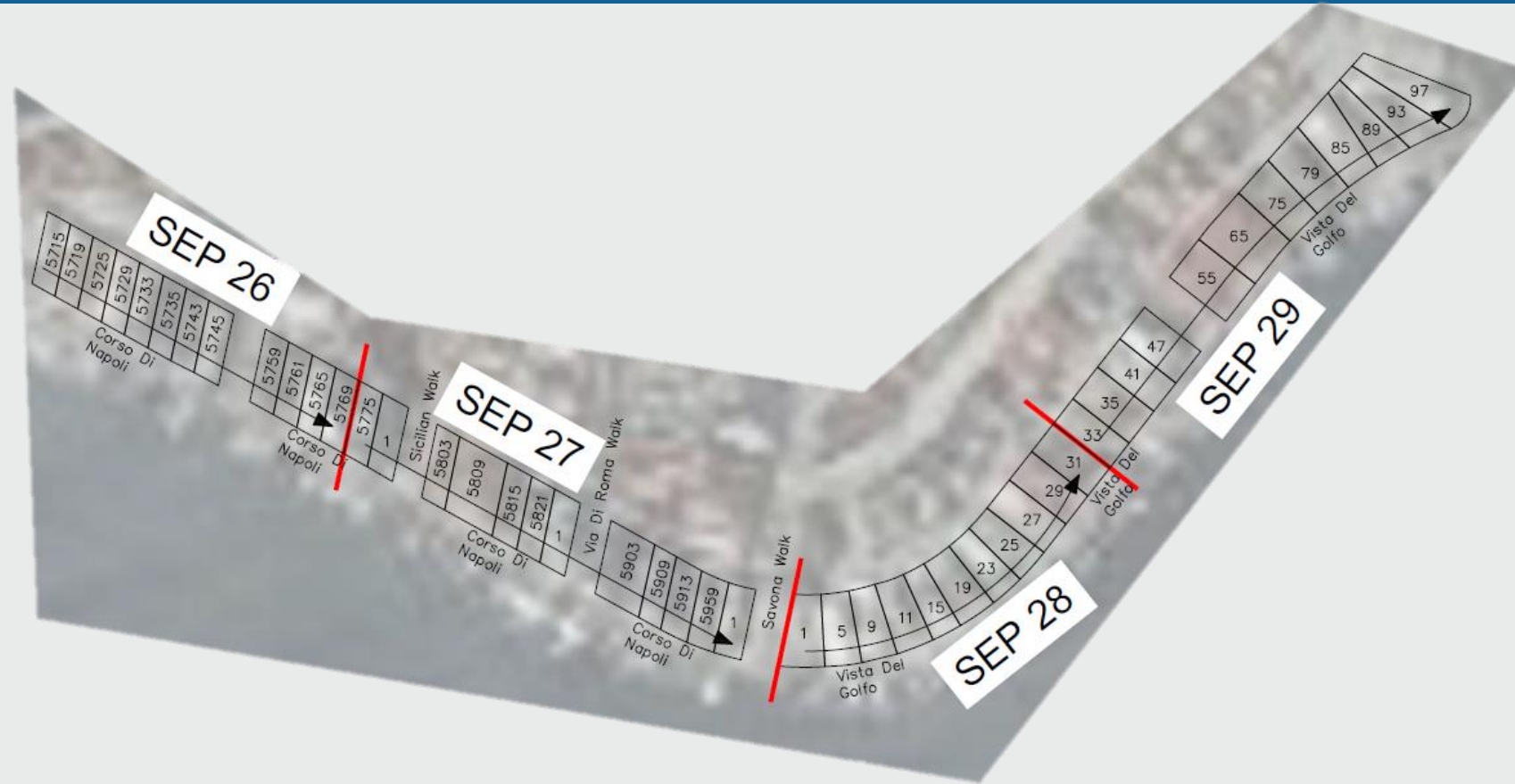


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AREA 5

CdN = Corso di Napoli

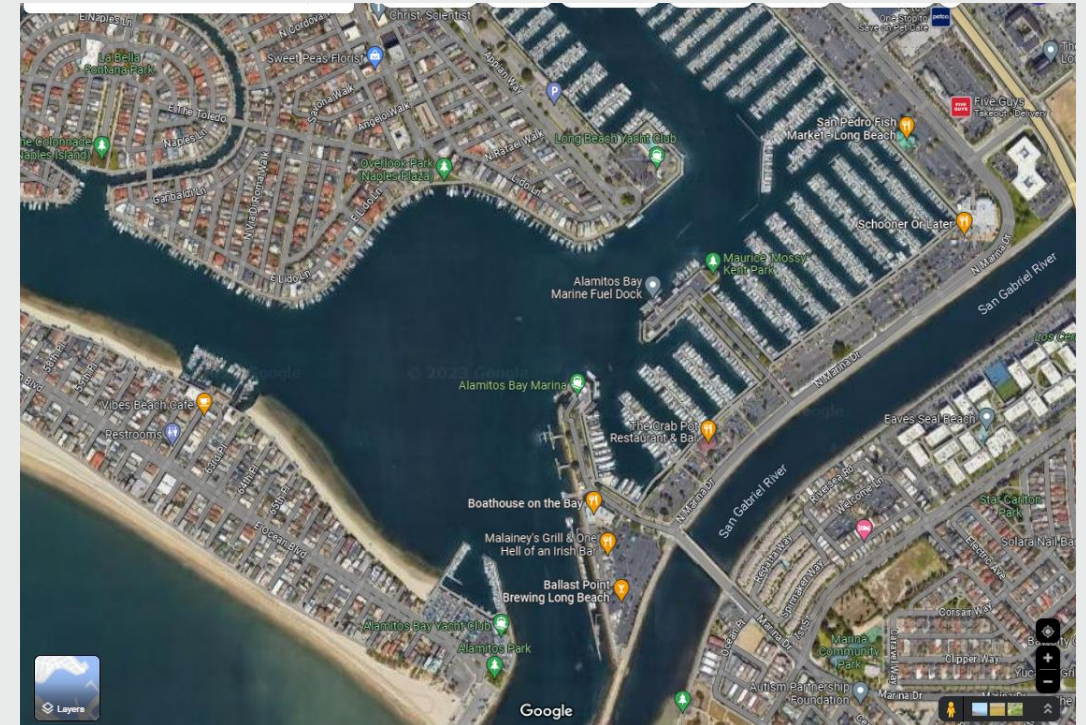
- Sept 26
 - 5715-5775 CdN
- Sept 27
 - 5775 CdN
 - 1 Sicilian Walk
 - 5803-5821 CdN
 - 1 Via Di Roma
 - 5903-5959 CdN
 - 1 Savona Walk
- Sept 28 1-31 Vista del Golfo
- Sept 29 33-97 Vista del Golfo



Naples Seawalls Assessment Update

Vessel Relocation (Coordination with Marine Bureau)

- Request each property relocate vessels to guest berthing location determined by Marine Bureau
- Approx. 10-12 properties per day
- Notices/reminders will be mailed
- Coordination with PRM required



Naples Seawalls Assessment Update

Seawalls Assessment Update Report/Documentation

TASKS	Sept '23	Oct '23	Nov '23	Dec '23	Jan '24	Feb '24	Mar '24	Apr '24	May '24
1. Field Work									
2. Tt Data Processing									
3. Report Preparation									
4. Report Finalization									
5. Begin Ph3 Planning/Design*									
6. Community Meeting									

**Includes scoping and development of fee proposal*

Phase 3 Seawalls Design & Permitting

Post-Assessment & Report Completion

- Share findings of report
- Identify and perform interim repairs (as recommended by report)
- Begin Phase 3 Planning, Permitting, and Design
- Community Meeting Update



Thank you

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