



The Foam Guys

A DIVISION OF
HOGAN CONSTRUCTION
CGC: 1507037

Smart Seawall Solutions:

Foam Injection & Recapping vs. Full Replacement

Protecting Communities, Savings Millions, Extending Life

The Challenge at Eastway Harbor

- Severe cracking, erosion, and wall rotation
- Corrosion staining and spalling along the cap
- Upland settlement & depressions behind wall panel.
- King tide and tidal forces are worsening damage
- Immediate code enforcement concerns



Cracking & Concrete Erosion at t-piles along south basin bulkhead



Cracking at the northeast corner wall panel at Sta. 3+35'; Evident wall rotation.



View of corrosion staining bleeding through concrete, cracking.



Cracking along wall panel at Sta. 3+35'.



View of cracking in concrete cap along ICW



Upland depression at along the north basin bulkhead adjacent to the electrical conduit.

Innovative Approach:

Foam Injection + Seawall Recap

- **Foam Injection:** Strengthens wall panels, Stabilizes soils, fills voids, prevents further settlement
- **Concrete Recap:** Strengthens existing wall system, extends service life, meets today's codes.
- **Non-Disruptive:** Minimal demolition, faster construction, less impact to residents
- **Optimal Solution:** U.S. Army Corps of Engineers - No permit required designation.
- **Future-Proofing:** 25 years for capital planning before full replacement.





DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
4400 PGA BOULEVARD, SUITE 500
PALM BEACH GARDENS, FL 33410

October 8, 2024

REPLY TO
ATTENTION OF

Regulatory Division
South Permits Branch
Palm Beach Gardens Section
SAJ-2024-03313(NPR-JLA)

Eastway Harbor Master Association
c/o Richard Moss
1445 SE 15th Court
Deerfield Beach, Florida 33441

Dear Mr. Moss:

Reference is made to the application received on August 13, 2024, for a Department of the Army permit to install a seawall cap overpour for an existing 1,703 linear foot seawall. The proposed project site is located at 1445 SE 15th Court, in section 03, Township 48 South, Range 43 East, Deerfield Beach, Broward County, Florida. The application has been assigned the file number SAJ-2024-03312(NPR-JLA).

Section 10 of the Rivers and Harbors Act of 1899

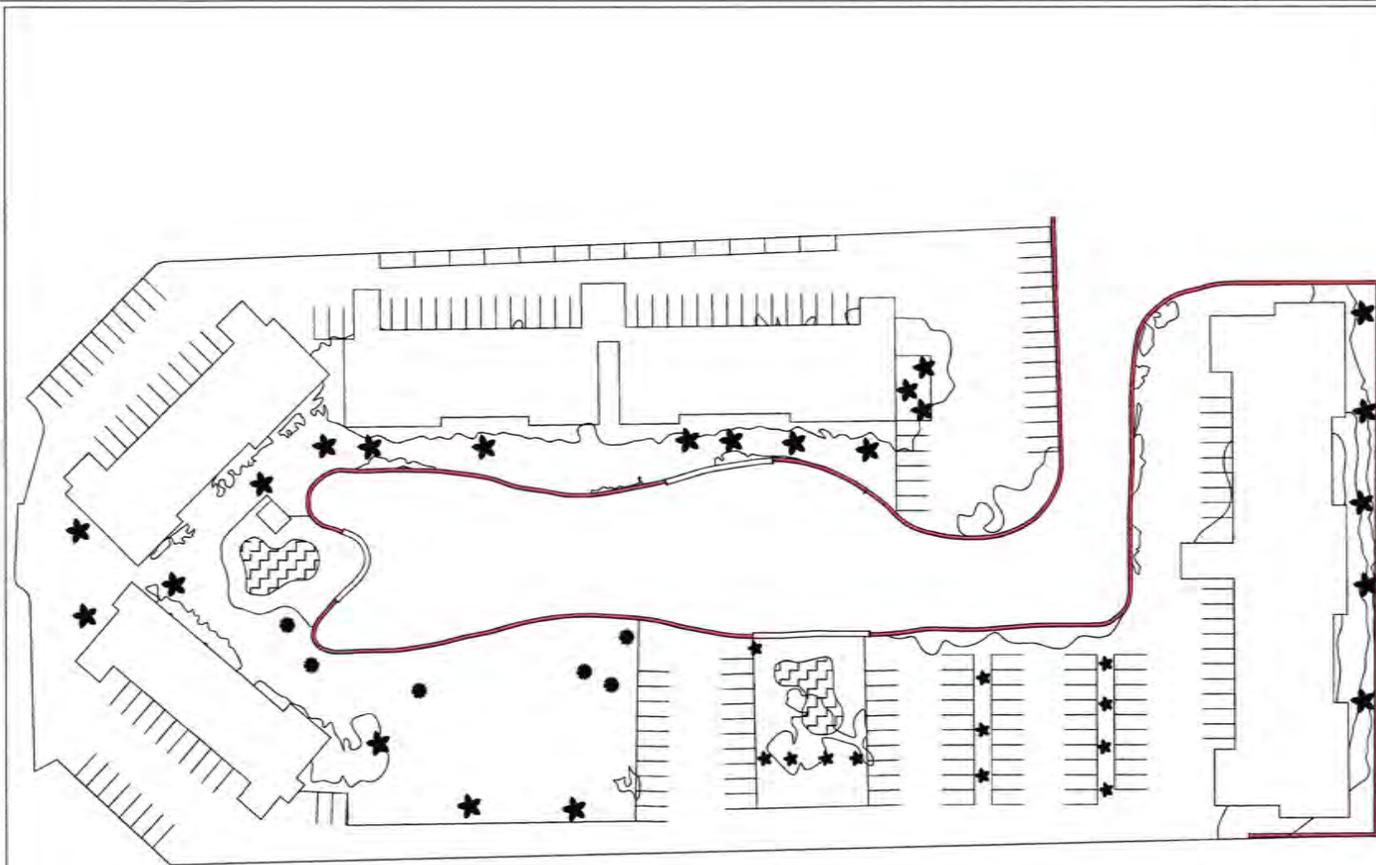
The project as proposed will not require a Department of the Army permit in accordance with Section 10 of the Rivers and Harbors Act of 1899 as the activity is not regulated. The U.S. Army Corps of Engineers (Corps) has determined that the proposed activity does not constitute a structure or work affecting navigable waters of the United States as defined in 33 C.F.R. § 322.2. Provided the work is done in accordance with the enclosed drawings, Department of the Army authorization will not be required.

Section 404 of the Clean Water Act

The U.S. Army Corps of Engineers (Corps) has determined that the proposed project will not require a Department of the Army permit in accordance with Section 404 of the Clean Water Act. The proposed work may occur in waters of the United States; however, the Corps determined that the proposed work does not involve the discharge of dredged or fill material. Provided the work is done in accordance with the enclosed drawings, Department of the Army authorization will not be required.

This NPR does not address nor include any consideration for geographic jurisdiction and shall not be interpreted as such.





SEAWALL CAP CONSTRUCTION NOTE:

NO CONSTRUCTION ACTIVITIES WILL BE PERFORMED OVER WATER. ALL WORK WILL BE CONDUCTED FROM THE LANDWARD SIDE OF THE SEAWALL, STOPPING AT THE WATER-FACING SIDE OF THE EXISTING CAP. THIS ENSURES THAT NO PREPARATIONS FOR WATER-BASED ACTIVITIES ARE NECESSARY, SIGNIFICANTLY REDUCING POTENTIAL ENVIRONMENTAL IMPACT AND LOGISTICAL COMPLEXITY. THE NEW CONCRETE CAP WILL TERMINATE AT THE EXISTING SEAWALL EDGE, AVOIDING ANY ENCROACHMENT INTO THE WATERBODY.

AREA OF WALL SHADED IN RED TO BE OVER-POURED WITH NEW CONCRETE AND CAPPED

APPROXIMATELY 1703 LF

SITE PLAN
SCALE: 1"=100'



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RES
Ruffini Engineering Services

SITE PLAN
EASTWAY HARBOR
1445 SE 13th CT.,
Deerfield Beach, FL 33441, USA
HOGAN CONSTRUCTION
954 937 5387

TONY RUFFINI P.E.
954-228-3302
solutions@res-civil.com

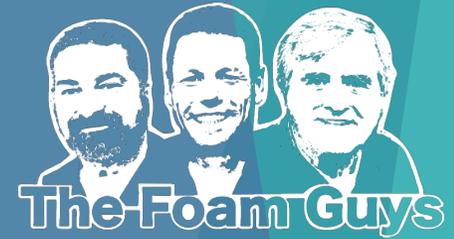
ISSUE	DATE
SITE PLAN	07/29/2024

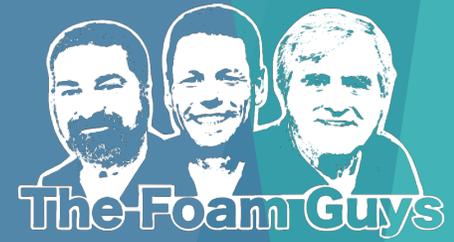
JOB NO. RES 2933
DRAWN BY KMD
CHECKED BY APR

C001

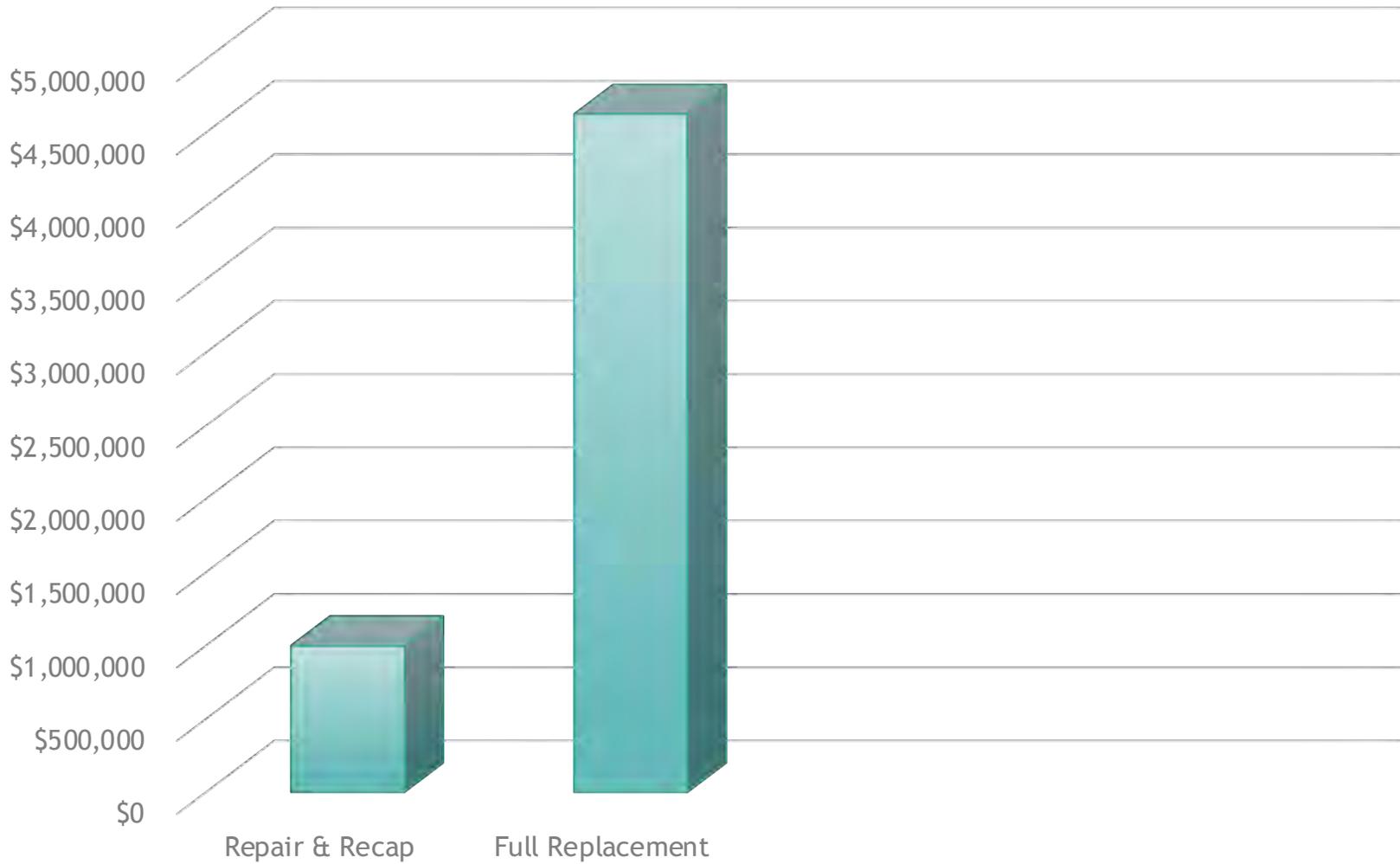
Cost & Benefit Comparison

- **Repair & Recap**
 - \$1,000,000
 - 10-Year Warranty
 - 25-year life expectancy
- **Full Replacement**
 - \$4,625,000
 - Full demolition & rebuild
 - Major disruption to residents & docks
- **Key Benefits of Repair**
 - Immediate compliance
 - Saves \$3.6M
 - Provides 25 years of planning for 2050 replacement costs





Cost Comparison



Visual Case Study: Before & After



Before: Failing Seawall



After: Stabilized & Recapped Seawall

Broader Impact:

King Tides & Resilience

- King Tides increasing frequency & intensity
- Existing seawalls are under growing stress
- Foam injection reduces voids & prevents undermining
- Recapping provides immediate elevation & structural strength
- Solution extends life to 2050 replacement horizon
- Protects property values & resident safety





King Tide Flooding



Upland depressions adjacent to drainage catch basin at Sta. 14+62'.



Additional settlement of pavers in step down at Sta. 7+95' adjacent to south pool area.



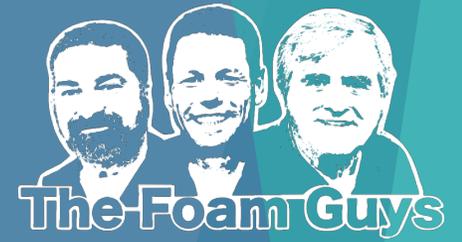
Upland depression at Sta. 2+92' filled with stone.

Completed Project Video

Eastway Harbor: Project Success



- Foam Injection + Recap = Immediate Compliance
- 25% the cost of replacement
- Provides 10-Year Warranty & 25 Year Life Expectancy
- Buys Time Until 2050 for Full Replacement
- Protects Property, Residents, and Community Value
- Smart, Sustainable, and Cost-Effective Solution



Q & A

- Questions?
- Let's talk about protecting shorelines smarter
- Cost savings + resilience + compliance
- Long-term planning without immediate \$4.6M burden





The Foam Guys

If your community is facing the same challenges Eastway Harbor did, let's talk. Foam injection and recapping can save you millions while giving peace of mind.

Ph: (954) 370-6161

www.thefoamguys.com

“We’re only a *FOAM* call away!”