Figure 2-7 Cracked and Displaced Concrete tiles along the seaward side of the Seawall

3.0 CONCLUSIONS & RECOMMENDATIONS

The storm surge causes by the hurricanes overtopped the existing seawall. The forces from the waves and currents of surge caused the upland scour to undermine the sidewalk, overstress the top of the seawall and cap, and the revetment tiles to dislodge.

Due to the extent and nature of the damages across the seawall system, the damages are considered non-repairable. The recommended actions for this sections of seawall include:

1. Cut and remove 250 feet of damaged seawall and replace it with a concrete junction slab that combines the sidewalk and barrier wall in a structural component.

Conclusions and Recommendations:
#1: Agree - 250 ft of seawall and sidewalk need to be completely removed and replaced
#2: Agree - 350 ft of damaged sidewalk need to be removed and replaced
#3: Agree - Fill scour depressions upland of the sidewalk
#4: Agree - Remove cracked and displaced concrete tiles

Reference: Fort DeSoto Seawall & Sidewalk Hurricane Damage Assessment

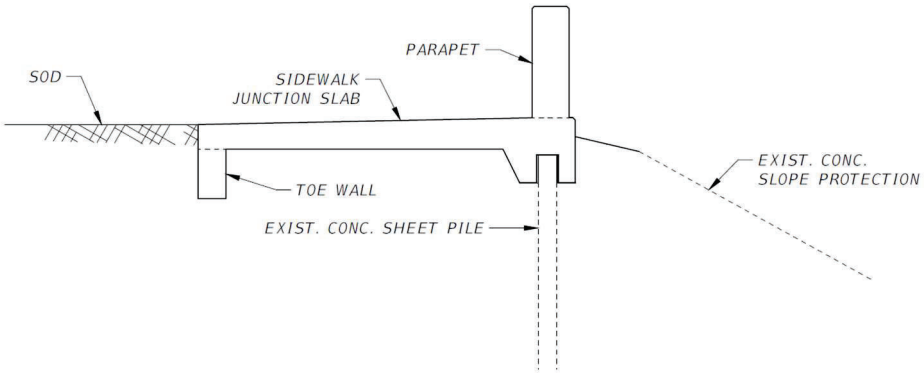

Figure 3-1 Seawall Repair Detail Sketch

2. Remove and replace the remaining 350 feet of damaged sidewalk.
3. Fill scoured depressions upland of the sidewalk and sod disturbed areas.
4. Remove and replaced cracked and displaced revetment concrete tiles along seaward side of the seawall.

The replacement recommendations are specifically for the hurricane-related damages. A construction cost opinion for the associated repairs listed above is enclosed with this document.

Please let us know if you have any questions on our assessment above or if there is any additional information that we can provide.

Sincerely,

STANTEC CONSULTING SERVICES INC.

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Senior Structural Engineer
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CHRISTOPHER P. GAMACHE
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This document has been digitally signed and sealed by

on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed. The signature should be verified on the electronic documents.

Enclosures: Cost Estimate

Stantec

Opinion of Probable Construction Cost
Fort DeSoto Seawall
Pinellas County
June 2025

PAY ITEM NO	DESCRIPTION		UNIT	UNIT PRICE	QUANTITY	TOTAL PRICE
Fort DeSoto Seawall Repairs						
101-1	Mobilization	Revise Mobilization to 10% (LS)	LS	5%	1	$81,000.00
104-1	Erosion Control	$6.11 / SY on p. 15	SY	$10.00	3634	$36,340.00
104-10-3	Sediment Barrier	$2.52 / LF on p. 15	LF	$3.00	1090	$3,270.00
110-1-1	Clearing and Grubbing	$53,285.76 / AC on p. 16	LS	$5,000.00	1	$5,000.00
110-4-10	Removal of Existing Concrete	$45.90 / SY on p. 16	SY	$150.00	767	$115,050.00
120-6	Embankment	$19.42 / CY on p. 17	CY	$50.00	762	$38,100.00
400-4-8	Concrete Class IV, Bulkhead	$1,301.48 / CY on p. 18	CY	$1,350.00	96	$129,600.00
415-1-8	Reinforcing Steel - Bulkhead	$1.80 / lb on p. 19	LB	$2.00	26112	$52,224.00
522-2	Concrete Sidewalk and Driveways, 6" Thick	$107.35 / SY on p. 20	SY	$125.00	389	$48,625.00
575-1-8	Sodding, Bahia	$22.05 / SY on p. 22	SY	$25.00	400	$10,000.00
-	Precast Concrete Revetment Repair	On the high side, but reasonable	SY	$500.00	200	$100,000.00
				Subtotal		**$657,309**
				Contingency/Unknowns (20%)		**$131,462**
				TOTAL		**$788,770.80**

Comments:
- Add the costs of tolls to enter Ft Desoto. There is a toll booth near Eckerd College and a second toll booth at the southern end of Tierra Verde. For Florida Turnpike projects (which have tolls), mobolization is 8% - 10%.

- Revise Clearing and Grubbing pay item 110-1-1 unit to AC and list the estimated acreage to bid, $5,000 / AC is typ of FDOT D7 and Turnpike projects.

- Consider adding a pay item for Soil Tracking Prevention Device (EA), $10,000 EA