Beach Preservation Committee
9:00 a.m., Thursday, October 1, 2026
1207 Palm Boulevard
City Hall Council Chambers

Public Comment:
All citizens who wish to speak during the meeting must email their first and last name, address and topic to Nicole DeNeane, City Clerk, at nicoled@isleofpalms.gov no later than **3:00 p.m. the day before the meeting.** Citizens may also provide written public comment here: https://www.isleofpalms.gov/public-comment-form

Agenda

1. **Call to order** and acknowledgment that the press and the public have been duly notified of the meeting in accordance with the Freedom of Information Act.
2. **Citizens' comments-** All comments have a time limit of three (3) minutes.
3. **Approval of Minutes-** September 2, 2026
4. **New Business-**
    a. Discussion of alternatives analysis presentation (9:00am)
    b. Discussion and recommendation of future RFP for terminal groin and shoal management feasibility, design, permitting, and construction administration (9:15am)
    c. Discussion and recommendation on future dune vegetation and fencing (9:30am)
    d. Discussion of information to be included in future beach monitoring reports (9:45am)
5. **Old Business-** Update on beach renourishment project (10:00am)
6. **Miscellaneous Business-** Next meeting: Thursday, November 5, 2026 at 9am
7. **Adjournment**

City of Isle of Palms
Beach Preservation Committee

Beach Management
Alternatives Analysis – Findings Discussion



September 2, 2026

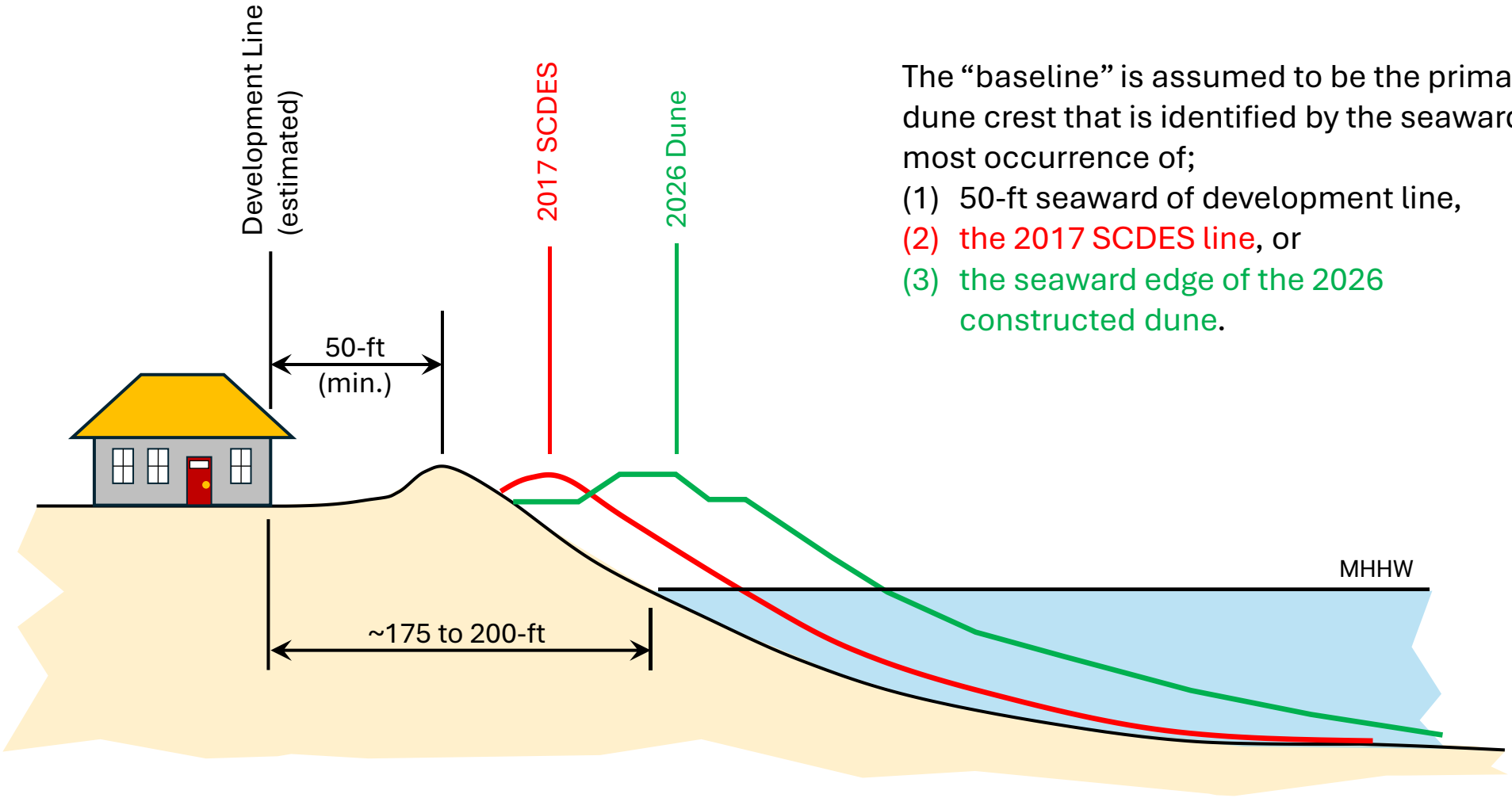
Outline

- Recap of Study Baseline Definition
- Summary of Assumed Initial Conditions
  - Volume Change Rates
  - 2026 Project
- Alternatives
- Cost Analysis - Assumptions and Results
- Future Management

Alternatives Study Baseline Definition

- **Baseline Development:**
  - Assumed to represent the primary dune crest of minimum beach position
  - Identified as the seaward-most occurrence of:
    - 50-ft offset from seaward edge of development,
    - 2017 SCDES Baseline, or
    - Seaward edge of 2026 dune, where constructed.

Alternatives Study Baseline Definition



The “baseline” is assumed to be the primary dune crest that is identified by the seaward most occurrence of;

(1) 50-ft seaward of development line,

(2) the 2017 SCDES line, or

(3) the seaward edge of the 2026 constructed dune.

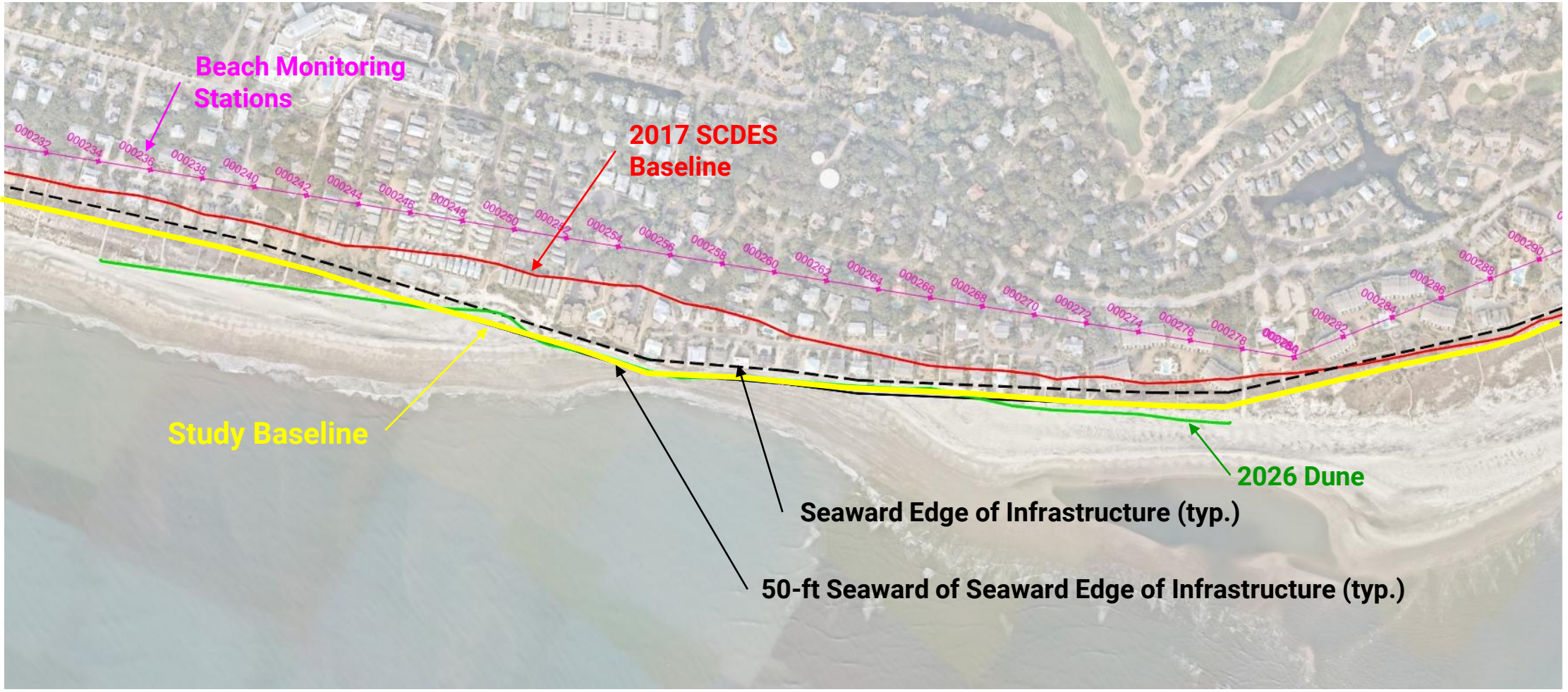
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Alternatives Study Baseline Definition



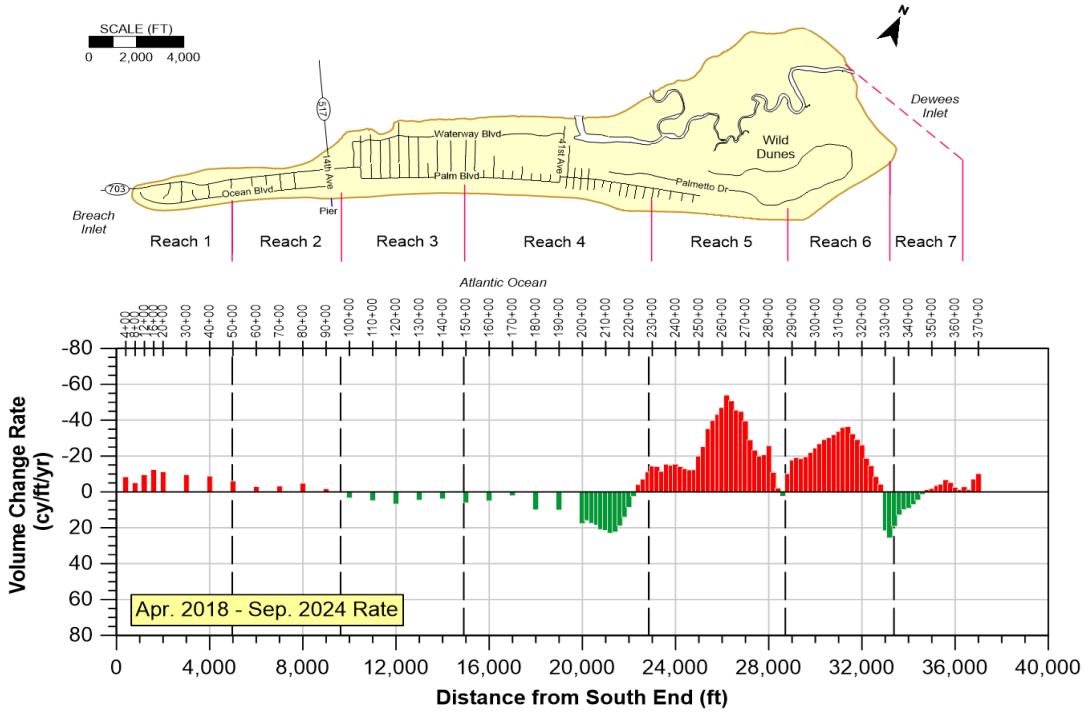
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Alternatives Study Baseline Definition

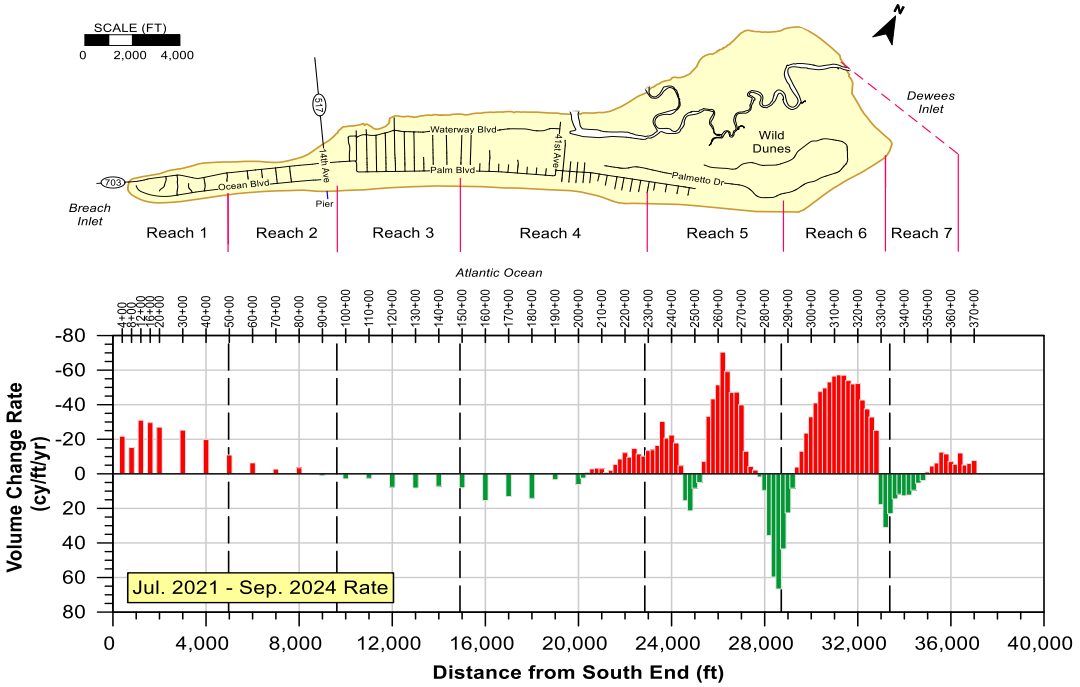


Initial Conditions

Volume Change Rates



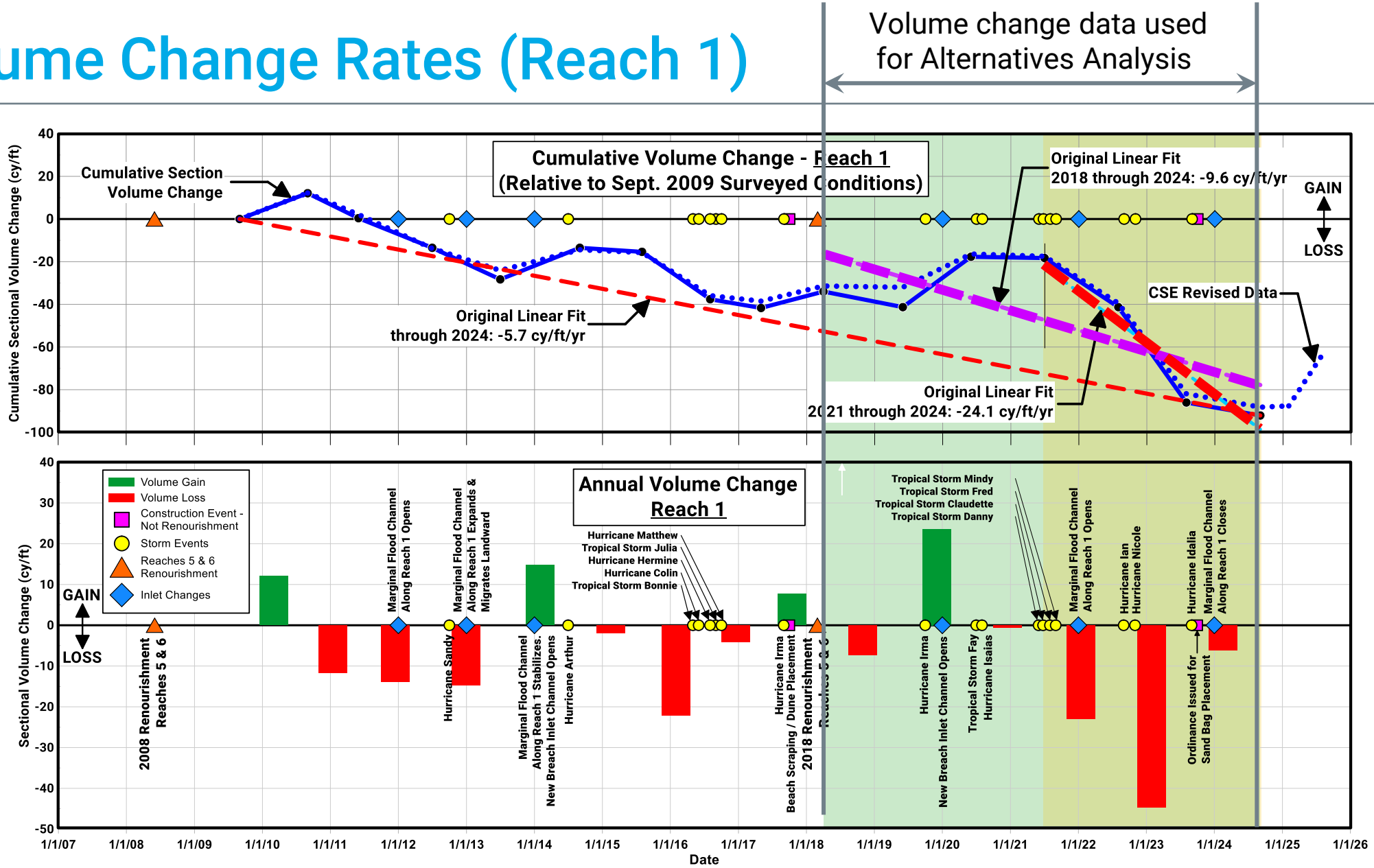
"Low Rate"
Survey Period: April 2018 – September 2024



"High Rate"
Survey Period: July 2021 – September 2024

Note: Volume change rates were derived from volume data reported by CSE.

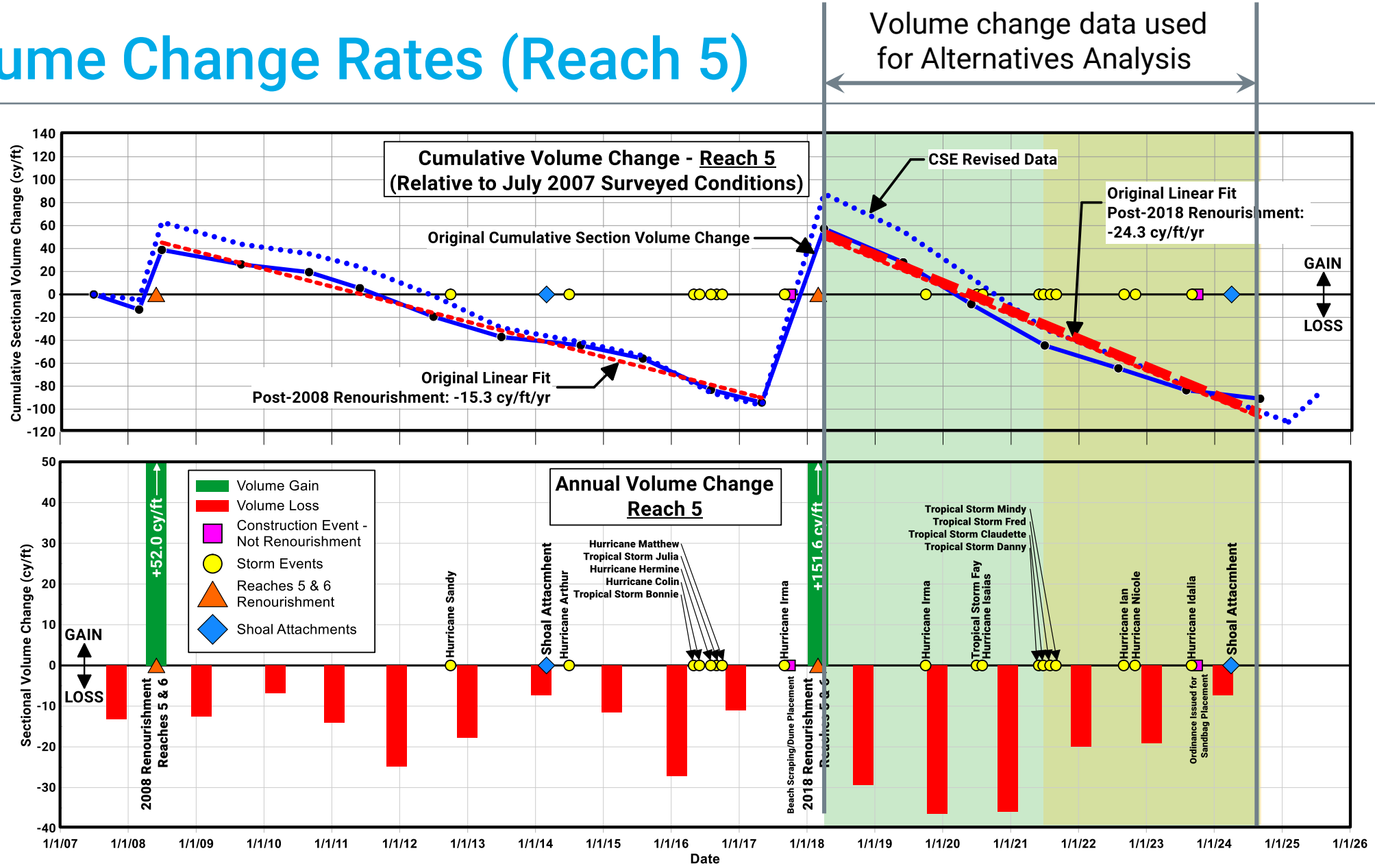
Volume Change Rates (Reach 1)



Note: Volume change rates were derived from volume data reported by CSE.

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Volume Change Rates (Reach 5)



Note: Volume change rates were derived from volume data reported by CSE.

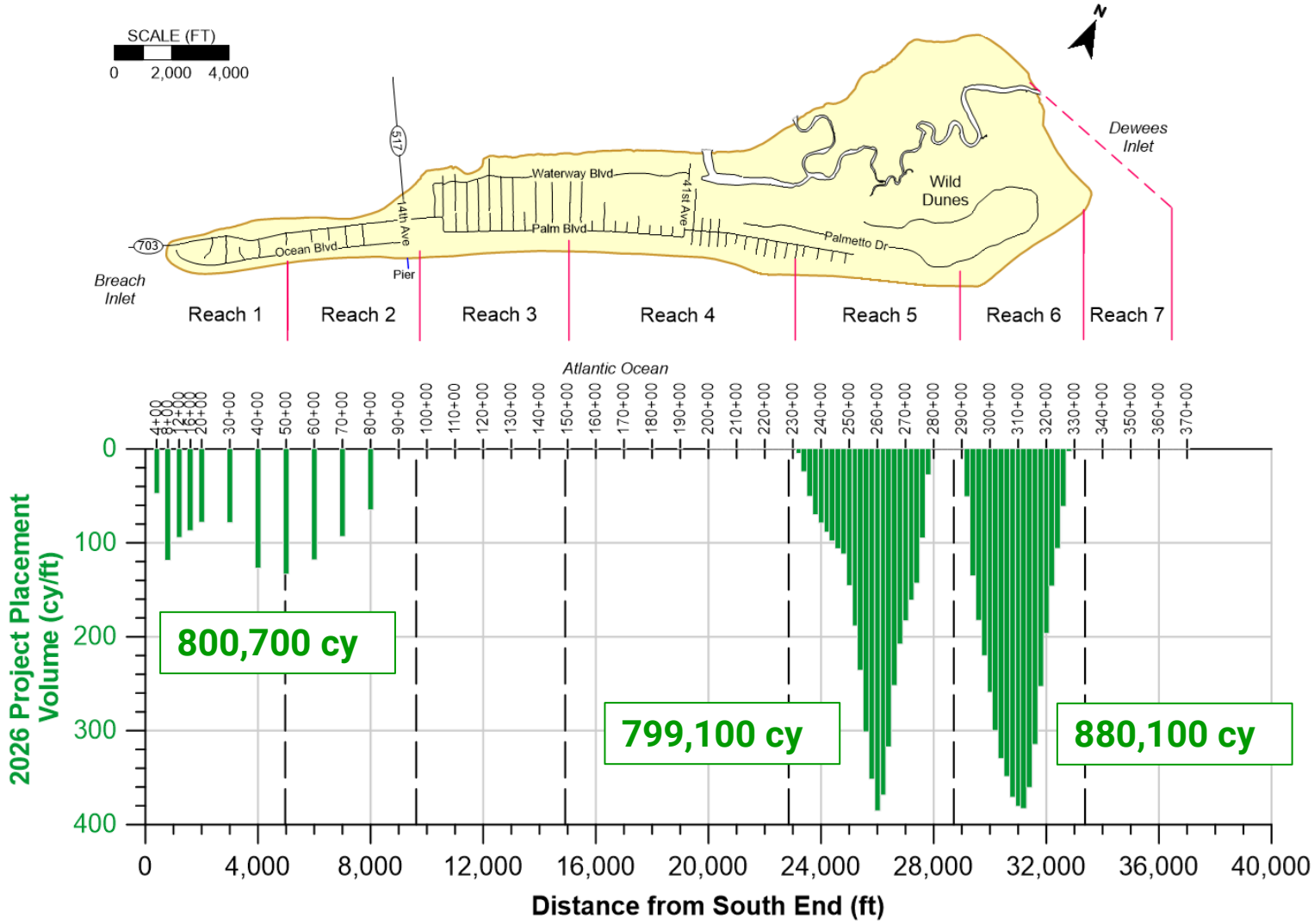
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NET Volume Change Rates (Reaches 1-6)

Reach	Reach Length (ft)	Annualized Volume Change Rate (cy/yr)	
		April 2018 - September 2024 ("low")	July 2021 - September 2024 ("high")
Reach 1	**4,000**	-36,800	-96,200
Reach 2	**5,000**	-22,300	-32,900
Reach 3	**5,000**	20,500	25,600
Reach 4	**8,200**	82,000	53,200
Reach 5	**5,800**	-141,900	-108,400
Reach 6	**4,800**	-102,200	-95,700
Total All Reaches	**32,800**	-200,700	-254,400
Total Reaches 1, 2, 5, & 6	**19,600**	-303,200	-333,200

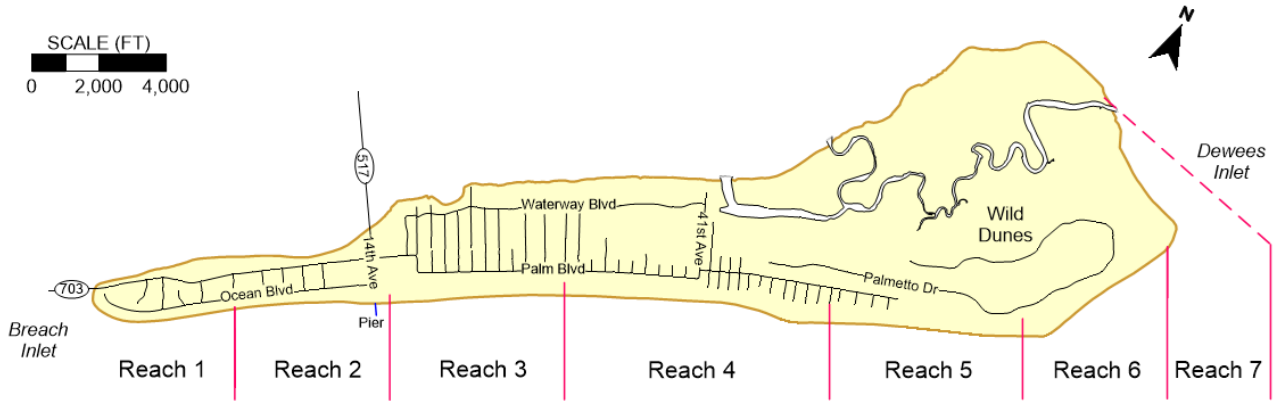
Note: Volume change rates were derived from volume data reported by CSE.

2026 Project Volumes

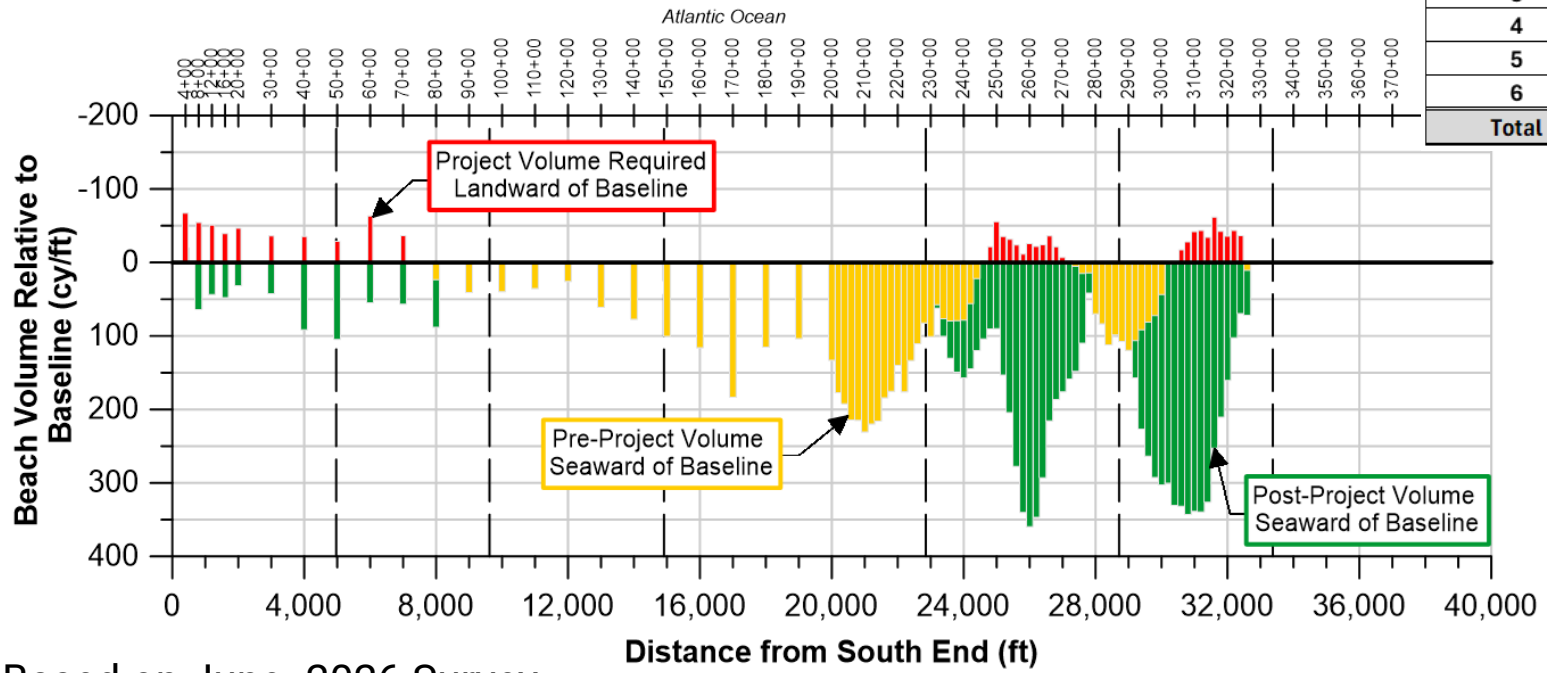


Based on June. 2026 Survey

Post-2026 Beach Conditions (Projected)



Reach	Project Volume Total (cy)	Project Volume Required Landward of Baseline (cy)	Project Volume Seaward of Baseline (cy)	Pre-Project Sand Volume Seaward of the Baseline (cy)	Total Post-Project Volume Seaward of Baseline (cy)
1	340,100	222,700	158,300	0	158,300
2	460,600	168,300	292,400	51,200	343,600
3	0	0	0	251,200	251,200
4	0	0	0	1,276,700	1,276,700
5	799,100	73,400	725,800	205,100	930,900
6	880,100	78,400	801,800	191,800	993,600
Total	**2,479,900**	**542,800**	**1,978,300**	**1,976,000**	**3,954,300**



This is the starting condition for the alternatives analysis

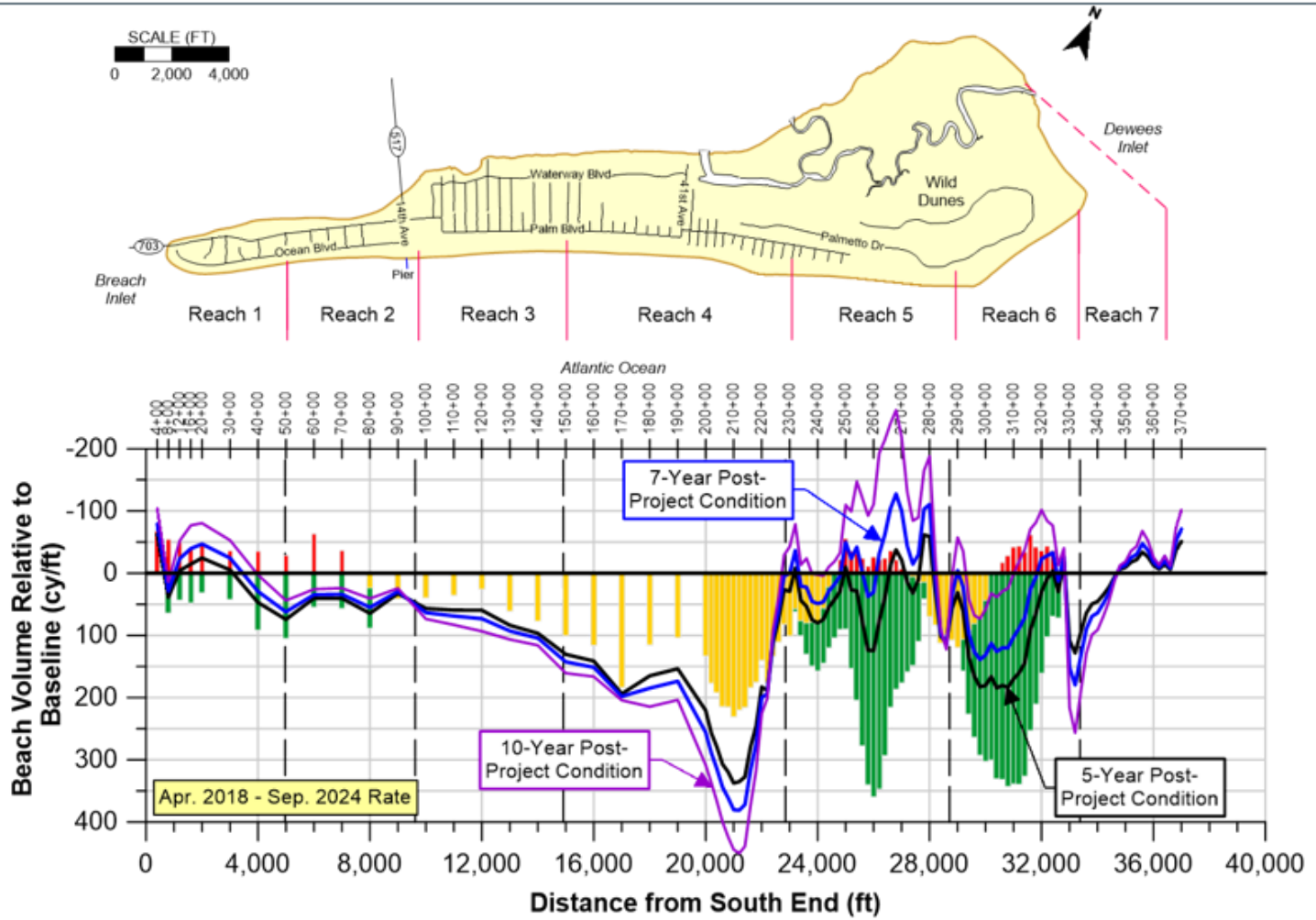
Based on June. 2026 Survey

Alternatives

Alternatives

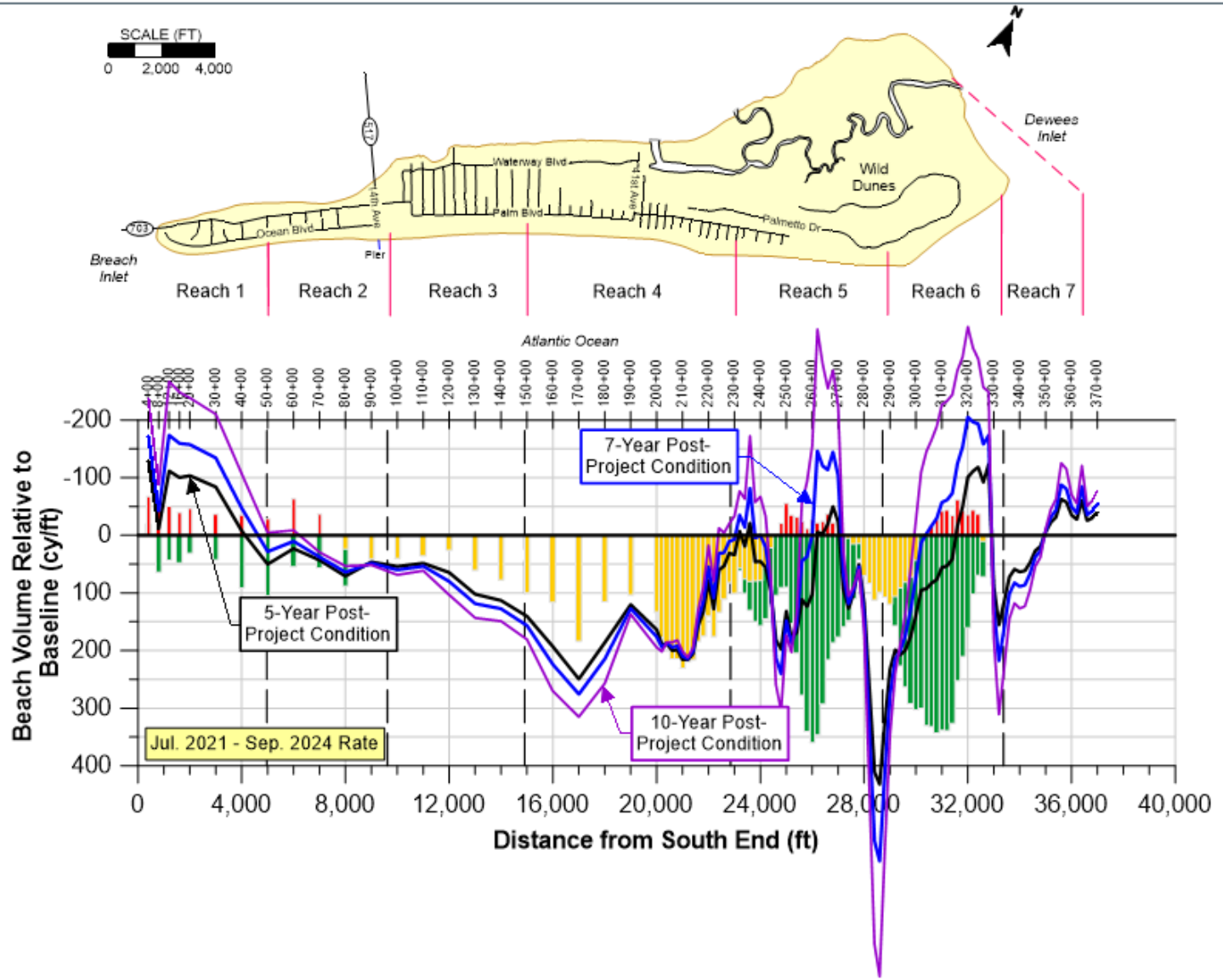
- No-Action (“Do Nothing”)
- Beach Renourishment Only (Low and High Sand Loss Rates)
  - Scheduled (5-yr, 7-yr, and 10-yr intervals)
  - Triggered (Interval Required to Protect Baseline Condition)
- USACE Breach Inlet ICWW Maintenance – Reach 1 (150,000 cy every 3 yrs)
- Dewees Inlet Shoal Management – Reaches 5 and 6 (700,000 cy every 7 yrs)
- Terminal Groin (R1)
- T-Groins/Breakwaters and/or Geotubes (R5/R6) – Reaches 5 and 6 (last line of defense)

No Action (Low Sand Loss Rate)



Note: Does not consider possible future AICWW beach disposal.

No Action (High Sand Loss Rate)



Note: Does not consider possible future AICWW beach disposal.

2026 Project Performance

Assuming recent beach change conditions continue, the 2026 Project is expected to maintain beach conditions seaward of the entire assumed beach management Baseline for no more than about 3 years.

Renourishment - Scheduled

- Required Future Volume Following Completion of 2026 Project
  - Restore Minimum AND Maintain Baseline Beach Condition
  - Future Advance Fill required for 5-, 7-, and 10-year renourishment intervals

5-Year Project Interval after Completion of 2026 Project								
	April 2018 - September 2024 ("Low" Erosion Rate)				July 2021 - September 2024 ("High" Erosion Rate)			
	Predicted Preformance of 2026 Project after 5 Years			[D = C + B]	Predicted Preformance of 2026 Project after 5 Years			[D = C + B]
Reach	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	Volume Lost Seaward of Baseline (cy)	Volume Lost Landward of Baseline (cy)	Total Volume Lost (cy)	Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)
1	122,300	61,500	183,800	245,300	158,300	322,800	481,100	803,900
2	111,400	0	111,400	111,400	164,300	0	164,300	164,300
3	0	0	0	0	0	0	0	0
4	0	0	0	0	43,400	0	43,400	43,400
5	664,200	45,000	709,200	754,200	564,800	28,500	593,300	621,800
6	503,700	7,500	511,200	518,700	591,100	126,500	717,600	844,100
Total	**1,401,600**	**114,000**	**1,515,600**	**1,629,600**	**1,521,900**	**477,800**	**1,999,700**	**2,477,500**

Renourishment - Scheduled

7-Year Project Interval after Completion of 2026 Project								
	April 2018 - September 2024 ("Low" Erosion Rate)				July 2021 - September 2024 ("High" Erosion Rate)			
	Predicted Preformance of 2026 Project after 7 Years			[D = C + B]	Predicted Preformance of 2026 Project after 7 Years			[D = C + B]
Reach	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)
1	146,300	110,900	257,200	368,100	158,300	515,300	673,600	1,188,900
2	155,900	0	155,900	155,900	218,900	11,000	229,900	240,900
3	0	0	0	0	0	0	0	0
4	0	0	0	0	60,800	0	60,800	60,800
5	816,100	176,900	993,000	1,169,900	675,900	154,700	830,600	985,300
6	674,300	41,400	715,700	757,100	715,100	289,600	1,004,700	1,294,300
Total	**1,792,600**	**329,200**	**2,121,800**	**2,451,000**	**1,829,000**	**970,600**	**2,799,600**	**3,770,200**

10-Year Project Interval after Completion of 2026 Project								
	April 2018 - September 2024 ("Low" Erosion Rate)				July 2021 - September 2024 ("High" Erosion Rate)			
	Predicted Preformance of 2026 Project after 10 Years			[D = C + B]	Predicted Preformance of 2026 Project after 10 Years			[D = C + B]
Reach	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)
1	158,300	209,200	367,500	576,700	158,300	804,000	962,300	1,766,300
2	222,800	0	222,800	222,800	262,600	66,000	328,600	394,600
3	0	0	0	0	0	0	0	0
4	0	0	0	0	86,800	0	86,800	86,800
5	885,300	533,300	1,418,600	1,951,900	741,500	445,000	1,186,500	1,631,500
6	865,800	156,600	1,022,400	1,179,000	761,700	673,600	1,435,300	2,108,900
Total	**2,132,200**	**899,100**	**3,031,300**	**3,930,400**	**2,010,900**	**1,988,600**	**3,999,500**	**5,988,100**

Renourishment - Triggered

- Implement renourishment on scheduled intervals regardless of beach condition between intervals

Reach	Trigger - 3 Years Until Erosion into Baseline [Between Stations 12+00 and 30+00]				Trigger - 1 Year Until Erosion into Baseline [Between Stations 12+00 and 30+00]			
	April 2018 - September 2024 ("Low" Erosion Rate)				July 2021 - September 2024 ("High" Erosion Rate)			
	Predicted Preformance of 2026 Project after 3 Years				Predicted Preformance of 2026 Project after 1 Year			
	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)
1	97,300	13,000	110,300	123,300	88,100	8,100	96,200	104,300
2	66,800	0	66,800	66,800	32,900	0	32,900	32,900
3	0	0	0	0	0	0	0	0
4	0	0	0	0	8,700	0	8,700	8,700
5	418,500	7,100	425,600	432,700	118,700	0	118,700	118,700
6	306,700	0	306,700	306,700	141,700	1,900	143,600	145,500
Total	**889,300**	**20,100**	**909,400**	**929,500**	**390,100**	**10,000**	**400,100**	**410,100**

Breach Inlet AICWW Beach Disposal

Goals:

- Beneficial use of available dredge material
- Supplemental sand source for Reaches 1 and 2
- Extend time between required renourishments
- Reduce sand need from offshore borrow areas

Assumptions:

- 3 yr interval (more or less)
- ~150,000 cy/event (equivalent to ~50,000 cy/yr)
- All material placed in Reaches 1 and 2
- Available material is suitable for beach placement
- Material provided at no cost to the City



Note: Concept only.

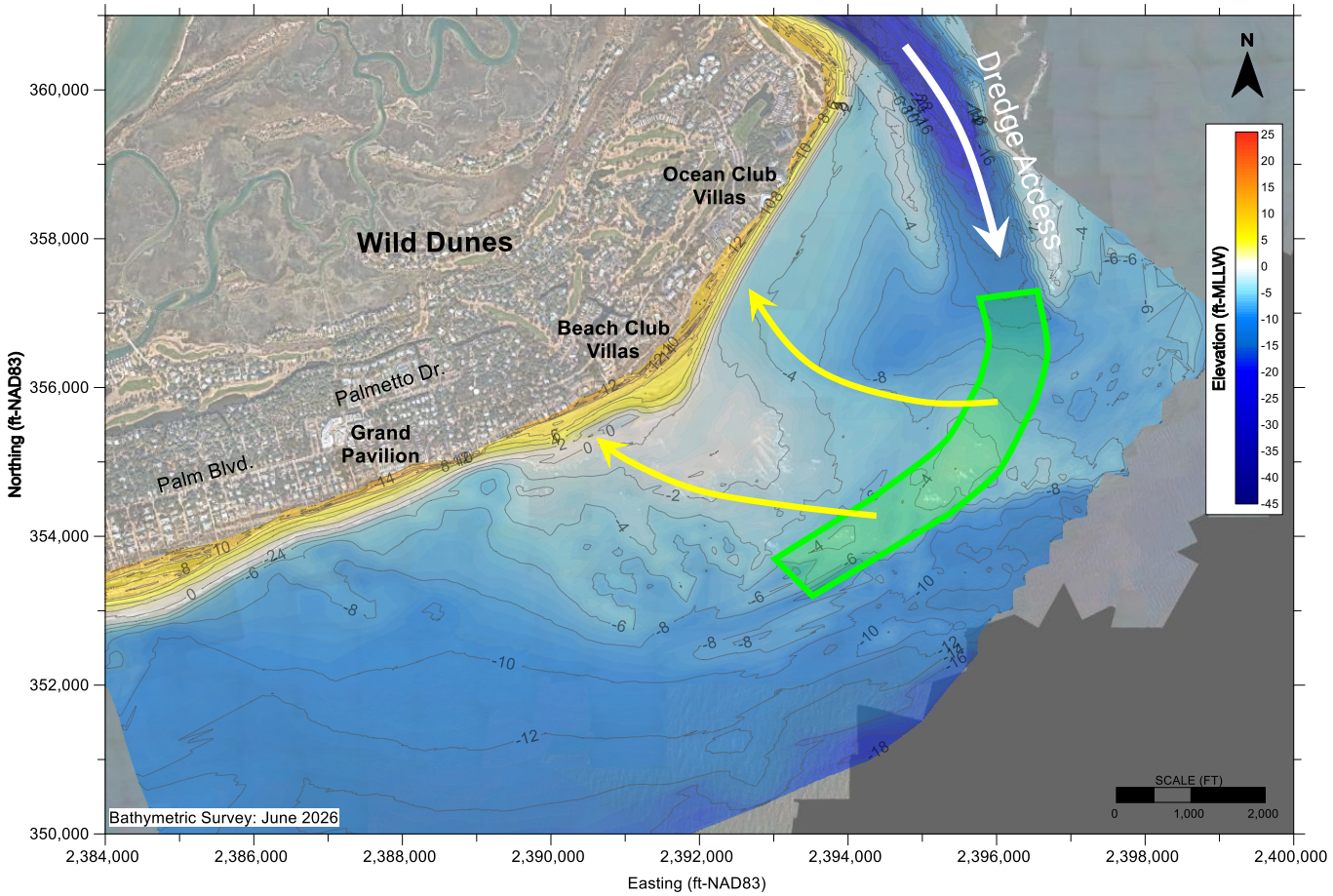
Dewees Inlet Shoal Management

Goals:

- Collect ebb shoal sand before migrating shoals approach IOP shoreline
- Place sand along Reaches 5 and 6
- Reduce impacts of future shoal attachments
- Extend time between required renourishments
- Reduce sand need from offshore borrow areas

Assumptions:

- 7 yr interval
- 700,000 cy/event (equivalent to 100,000 cy/yr)
- All material placed in Reaches 5 and 6



Note: Concept only.

Foth

Renourishment – with AICWW and Shoal Mgt Sand

5-Year Project Interval after Completion of 2026 Project												
	April 2018 - September 2024 ("Low" Erosion Rate)						July 2021 - September 2024 ("High" Erosion Rate)					
Reach	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	Volume Available from AICWW (Reaches 1&2) and Dewees Shoal (Reaches 5&6) (cy)	Sand Volume Needed from Offshore for Full Restoration and Maintenance (cy)	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	Volume Available from AICWW (Reaches 1&2) and Dewees Shoal (Reaches 5&6) (cy)	Sand Volume Needed from Offshore for Full Restoration and Maintenance (cy)
1	122,300	61,500	183,800	245,300	250,000	106,700	158,300	322,800	481,100	803,900	250,000	718,200
2	111,400	0	111,400	111,400		0	164,300	0	164,300	164,300		0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	43,400	0	43,400	43,400	0	43,400
5	664,200	45,000	709,200	754,200	500,000	504,200	564,800	28,500	593,300	621,800	500,000	371,800
6	503,700	7,500	511,200	518,700		268,700	591,100	126,500	717,600	844,100		594,100
Total	**1,401,600**	**114,000**	**1,515,600**	**1,629,600**	**750,000**	**879,600**	**1,521,900**	**477,800**	**1,999,700**	**2,477,500**	**750,000**	**1,727,500**

7-Year Project Interval after Completion of 2026 Project												
	April 2018 - September 2024 ("Low" Erosion Rate)						July 2021 - September 2024 ("High" Erosion Rate)					
Reach	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	Volume Available from AICWW (Reaches 1&2) and Dewees Shoal (Reaches 5&6) (cy)	Sand Volume Needed from Offshore for Full Restoration and Maintenance (cy)	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	Volume Available from AICWW (Reaches 1&2) and Dewees Shoal (Reaches 5&6) (cy)	Sand Volume Needed from Offshore for Full Restoration and Maintenance (cy)
1	146,300	110,900	257,200	368,100	350,000	174,000	158,300	515,300	673,600	1,188,900	350,000	1,079,800
2	155,900	0	155,900	155,900		0	218,900	11,000	229,900	240,900		0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	60,800	0	60,800	60,800	0	60,800
5	816,100	176,900	993,000	1,169,900	700,000	819,900	675,900	154,700	830,600	985,300	700,000	635,300
6	674,300	41,400	715,700	757,100		407,100	715,100	289,600	1,004,700	1,294,300		944,300
Total	**1,792,600**	**329,200**	**2,121,800**	**2,451,000**	**1,050,000**	**1,401,000**	**1,829,000**	**970,600**	**2,799,600**	**3,770,200**	**1,050,000**	**2,720,200**

Renourishment – with AICWW and Shoal Mgt Sand

10-Year Project Interval after Completion of 2026 Project												
	April 2018 - September 2024 ("Low" Erosion Rate)						July 2021 - September 2024 ("High" Erosion Rate)					
Reach	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	Volume Available from AICWW (Reaches 1&2) and Dewees Shoal (Reaches 5&6) (cy)	Sand Volume Needed from Offshore for Full Restoration and Maintenance (cy)	[A] Volume Lost Seaward of Baseline (cy)	[B] Volume Lost Landward of Baseline (cy)	[C = A + B] Total Volume Lost (cy)	[D = C + B] Future Volume Required to Restore and Maintain Beach Seaward of Baseline (cy)	Volume Available from AICWW (Reaches 1&2) and Dewees Shoal (Reaches 5&6) (cy)	Sand Volume Needed from Offshore for Full Restoration and Maintenance (cy)
1	158,300	209,200	367,500	576,700	500,000	299,500	158,300	804,000	962,300	1,766,300	500,000	1,660,900
2	222,800	0	222,800	222,800		0	262,600	66,000	328,600	394,600		0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	86,800	0	86,800	86,800	0	86,800
5	885,300	533,300	1,418,600	1,951,900	1,000,000	1,451,900	741,500	445,000	1,186,500	1,631,500	1,000,000	1,131,500
6	865,800	156,600	1,022,400	1,179,000		679,000	761,700	673,600	1,435,300	2,108,900		1,608,900
Total	**2,132,200**	**899,100**	**3,031,300**	**3,930,400**	**1,500,000**	**2,430,400**	**2,010,900**	**1,988,600**	**3,999,500**	**5,988,100**	**1,500,000**	**4,488,100**

- Demand on offshore sand can be reduced with use of beach compatible sand from AICWW and Dewees Inlet Shoal Management.
- Proposed sand volume from AICWW beach disposal MAY NOT be sufficient to maintain Baseline conditions along Reach 1 without sand from offshore.
- Available volumes and schedule will need to be confirmed.

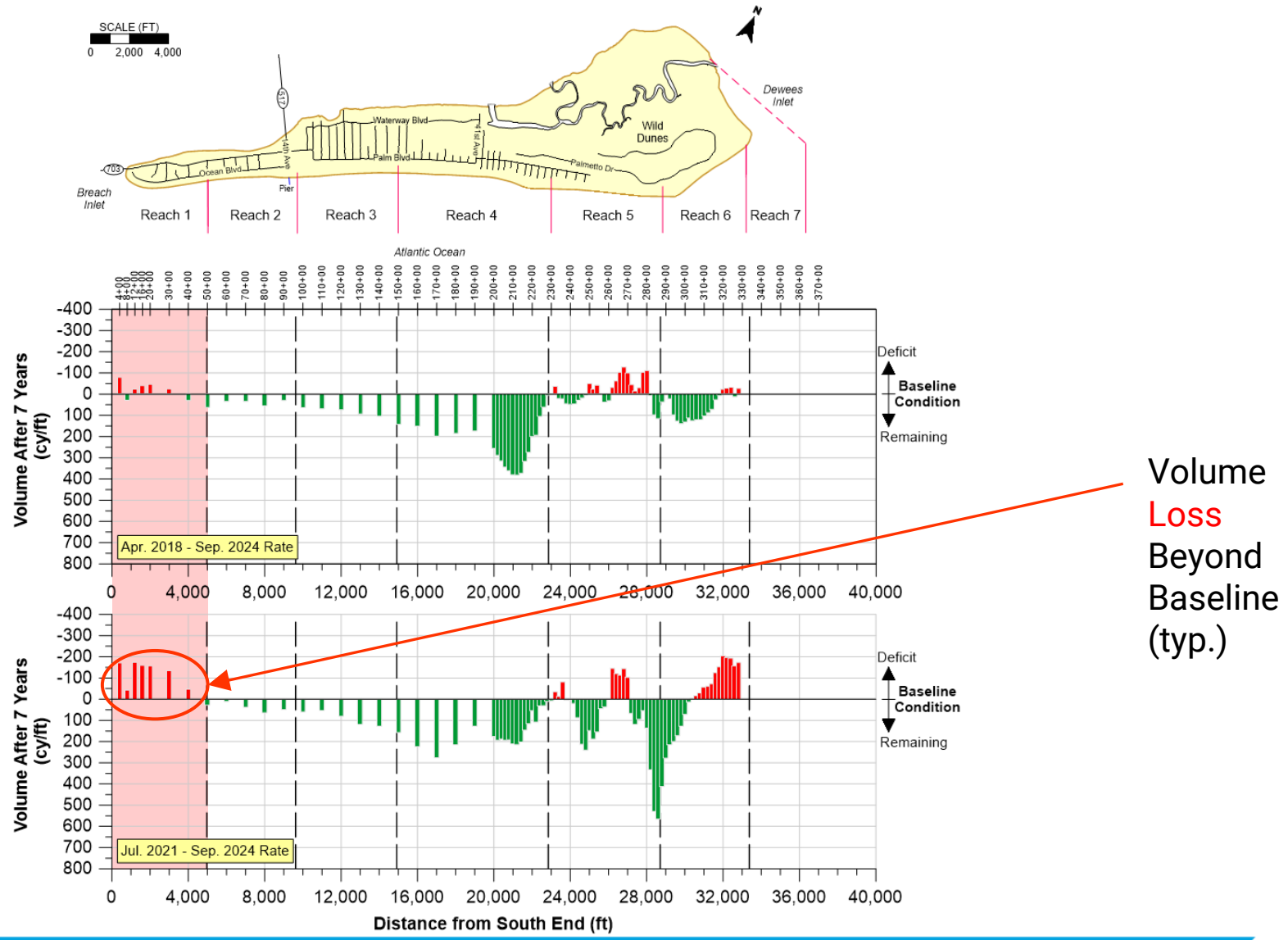
Renourishment with Structures

- Terminal Groin (Reach 1)

Anticipated Sand Loss Landward of Baseline (Reach 1)

Post-Project Beach Volume Performance **Relative to Baseline**

7-Year Condition



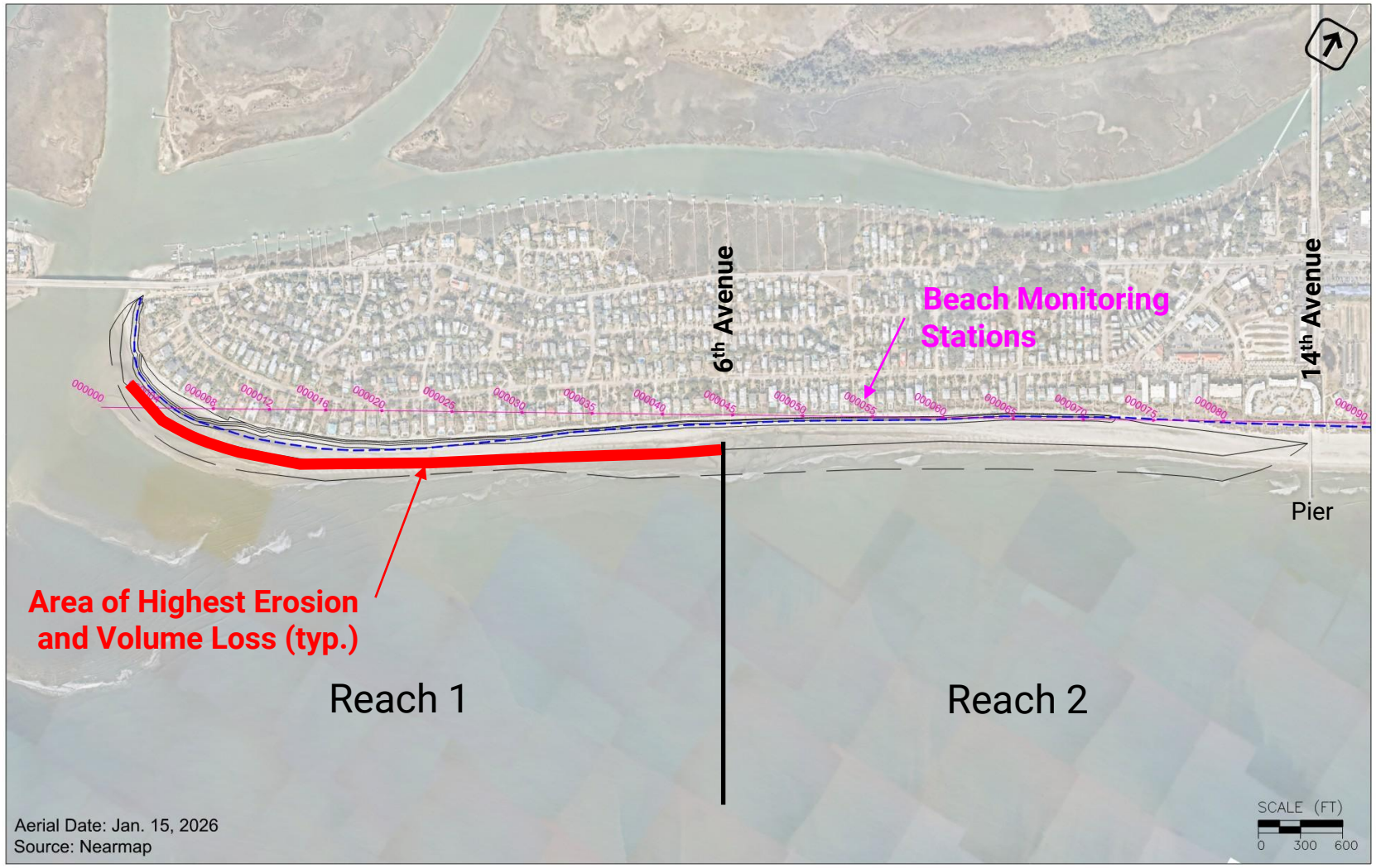
"**Low**" rate (2018-2024)

"**High**" rate (2021-2024)

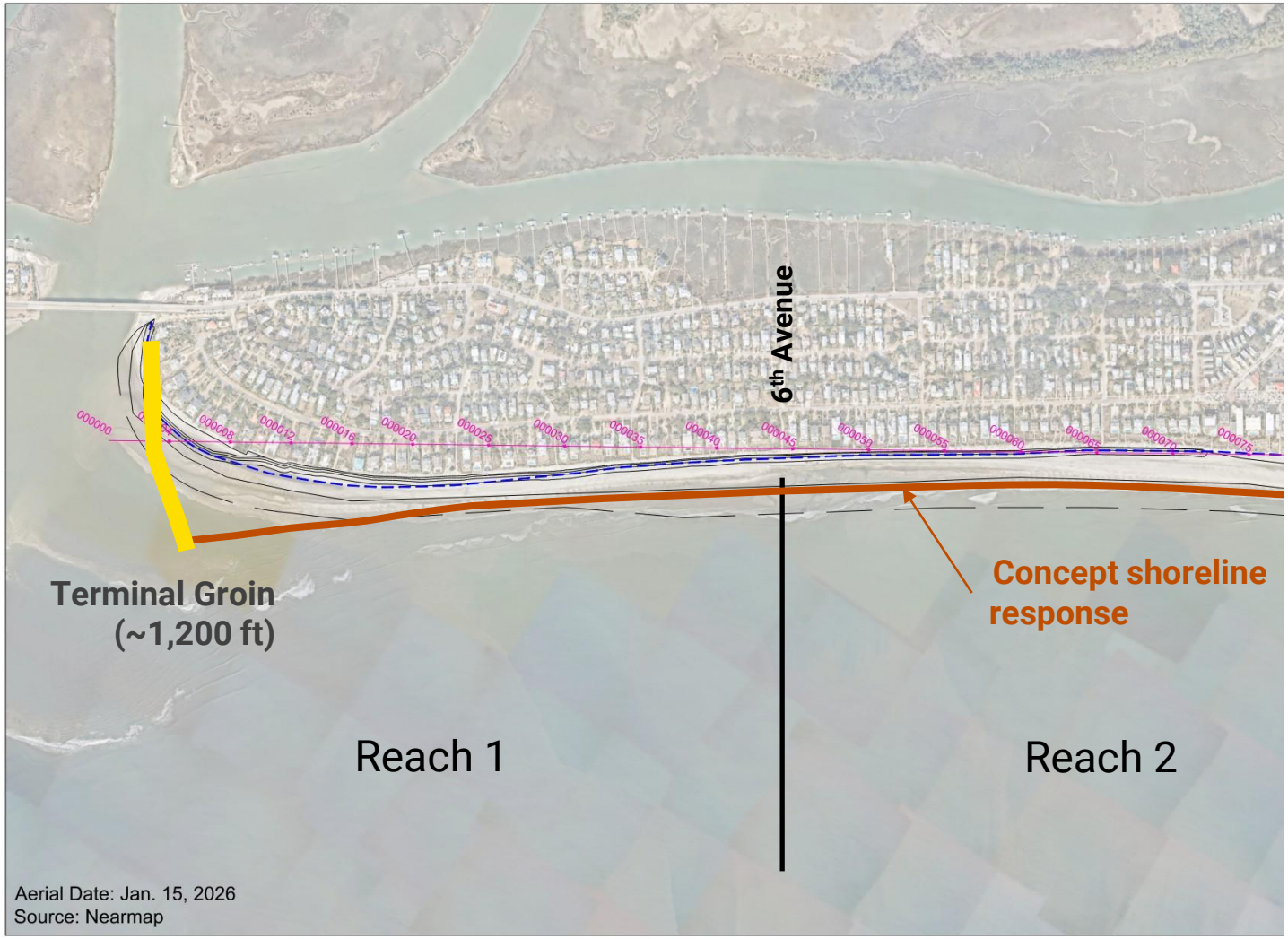
Volume Loss Beyond Baseline (typ.)

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Anticipated Sand Loss Landward of Baseline (Reach 1)



Terminal Groin (Reach 1)



Goals:

- Reduce sand loss from the southern end of the island
- Anchor shoreline position away from Baseline
- Extend time between required renourishment events
- Reduce demand on sand from offshore borrow areas

Assumptions:

- **~1,200 feet** long
  (most of structure to be buried)
- **~15,000 tons** of rock
  (with stone-filled mattress foundation)
- Reduces sand loss:
  - Reach 1 by 50%
  - Reach 2 by 25%

Note: Structures shown are conceptual and do not represent a final design. Quantities are assumed.

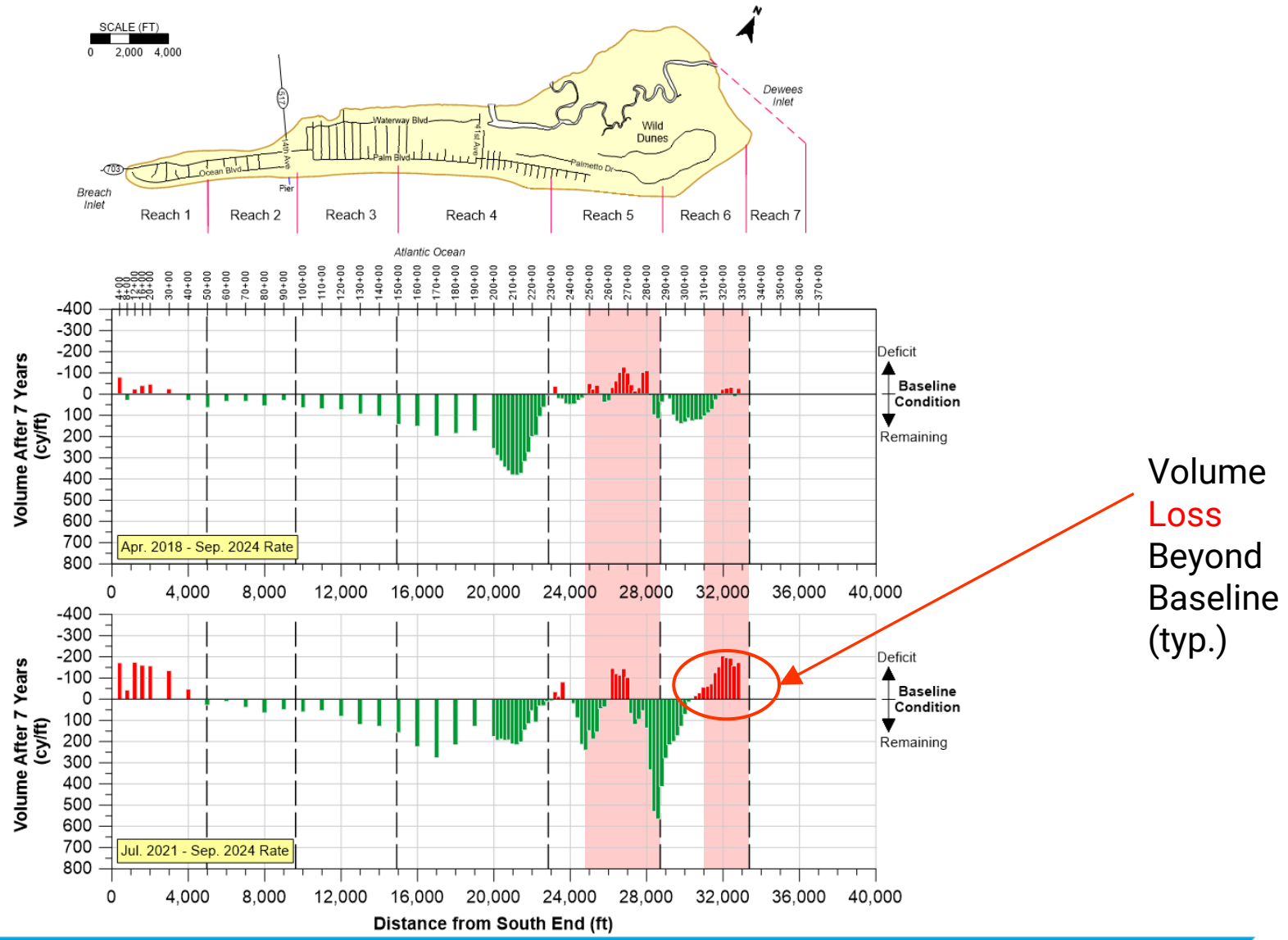
Renourishment with Structures

- Terminal Groin (Reach 1)
- T-Groins/Breakwaters (Reaches 5 and 6)

Anticipated Sand Loss Landward of Baseline (Reaches 5 &6)

Post-Project Beach Volume Performance **Relative to Baseline**

7-Year Condition



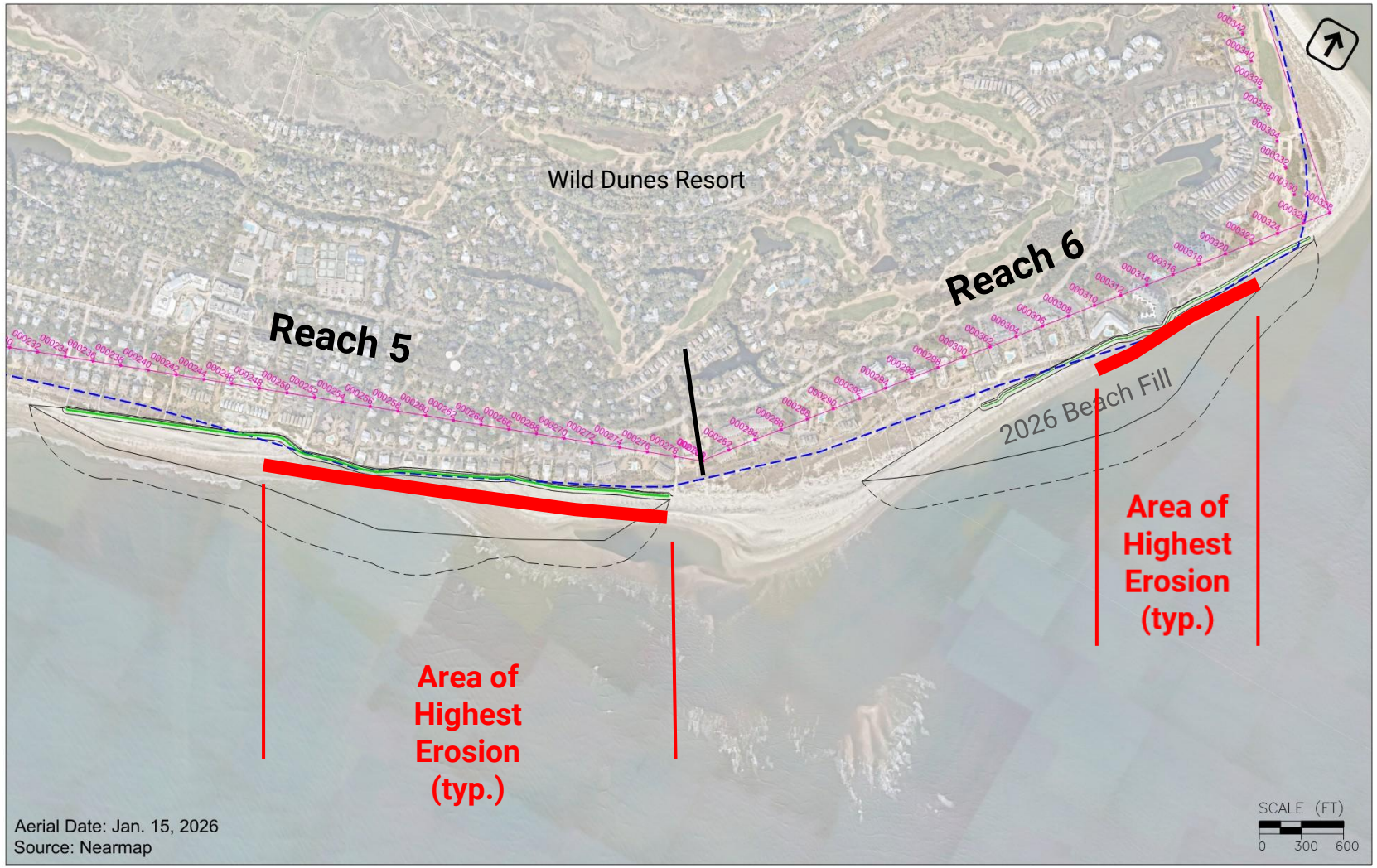
"**Low**" rate (2018-2024)

"**High**" rate (2021-2024)

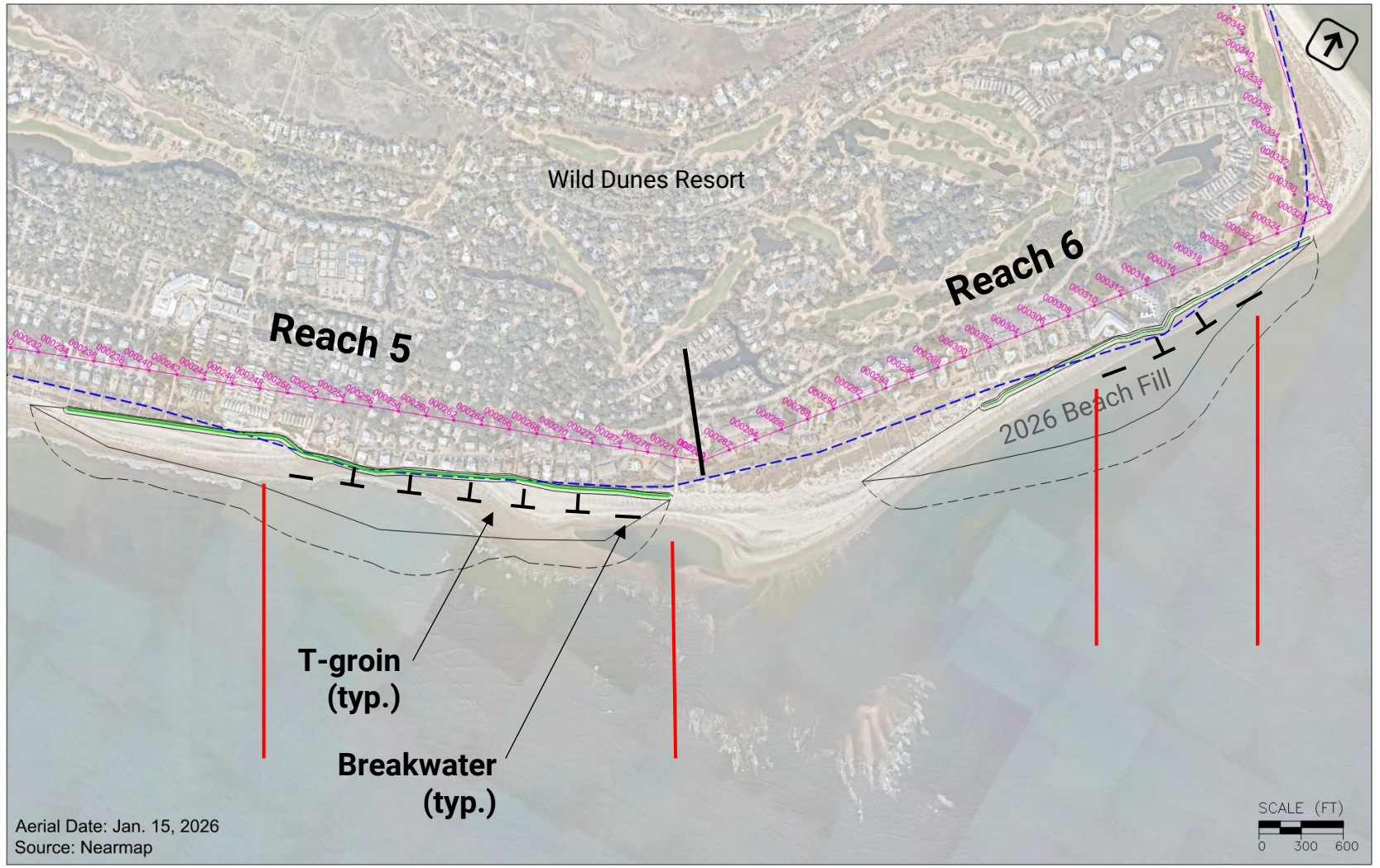
Volume Loss Beyond Baseline (typ.)

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Anticipated Sand Loss Landward of Baseline (Reaches 5 &6)



T-Groins and Breakwaters (Reaches 5 and 6)



Goals:

- Provide last line of defense to upland
- Anchor shoreline position at Baseline under most eroded conditions
- Maintain recreational beach seaward of Baseline

Note: Not intended to reduce sand loss rate from renourishment but may allow for smaller fill volumes and longer periods between renourishments

Assumptions:

- Reach 5 (5, T-groins and 2, breakwaters)
- Reach 6 (2, T-groins and 2, breakwaters)
- T-Groin = 2,800 tons with foundation
- Breakwater = 1,600 tons with foundation

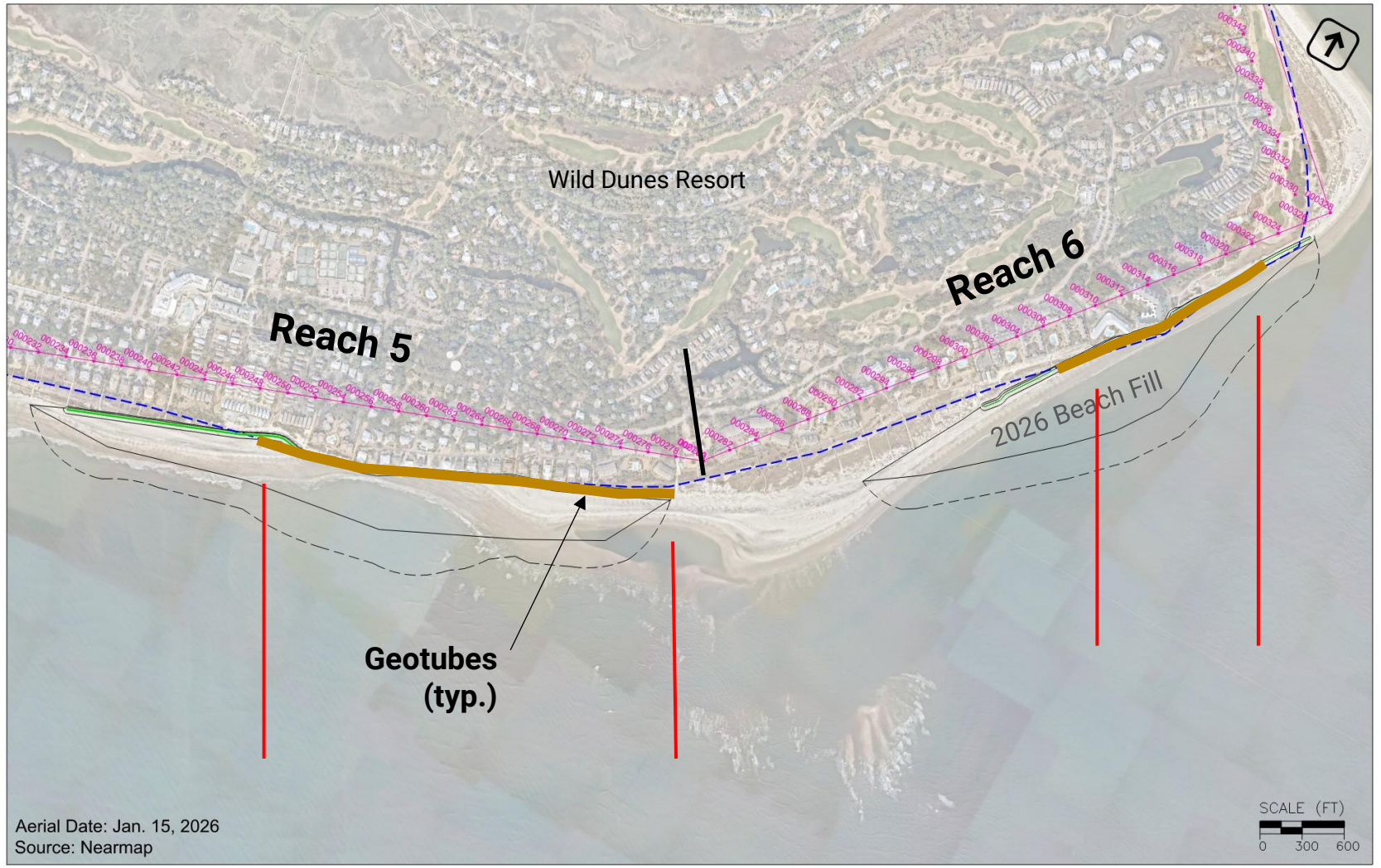
Note: Structures shown are conceptual and do not represent a final design. Quantities are assumed.

Foth

Renourishment with Structures

- Terminal Groin (Reach 1)
- T-Groins/Breakwaters (Reaches 5 and 6)
- Sand filled Geotubes (Reaches 5 and 6)

Geotubes (Reaches 5 and 6)



Goals:

- Provide last line of defense to upland
- Anchor shoreline position at Baseline under most eroded conditions

Note: Not intended to maintain recreational beach seaward of Baseline

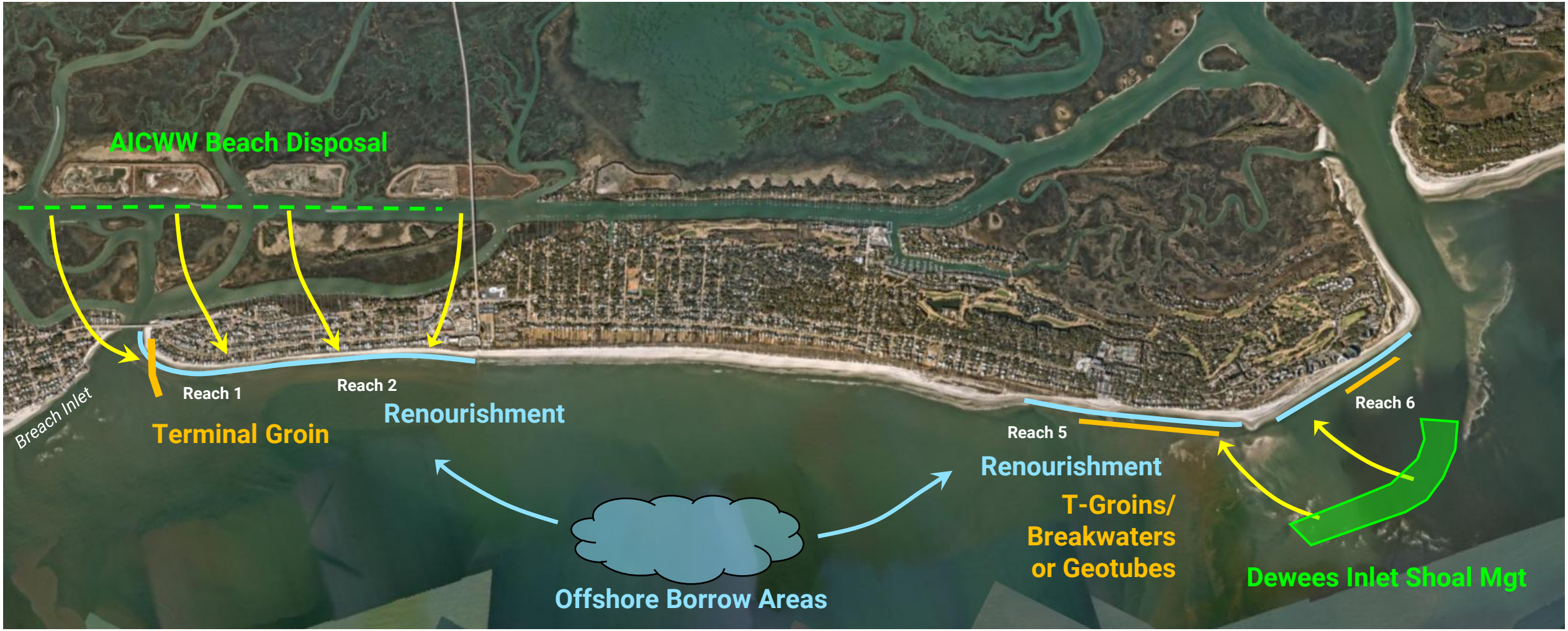
Assumptions:

- Reach 5 = 3,300 feet
- Reach 6 = 1,700 feet

Note: Structures shown are conceptual and do not represent a final design. Quantities are assumed.

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Beach Management Elements Summary



Note: Concept. Does not represent a final design.

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Known Offshore Sand Sources

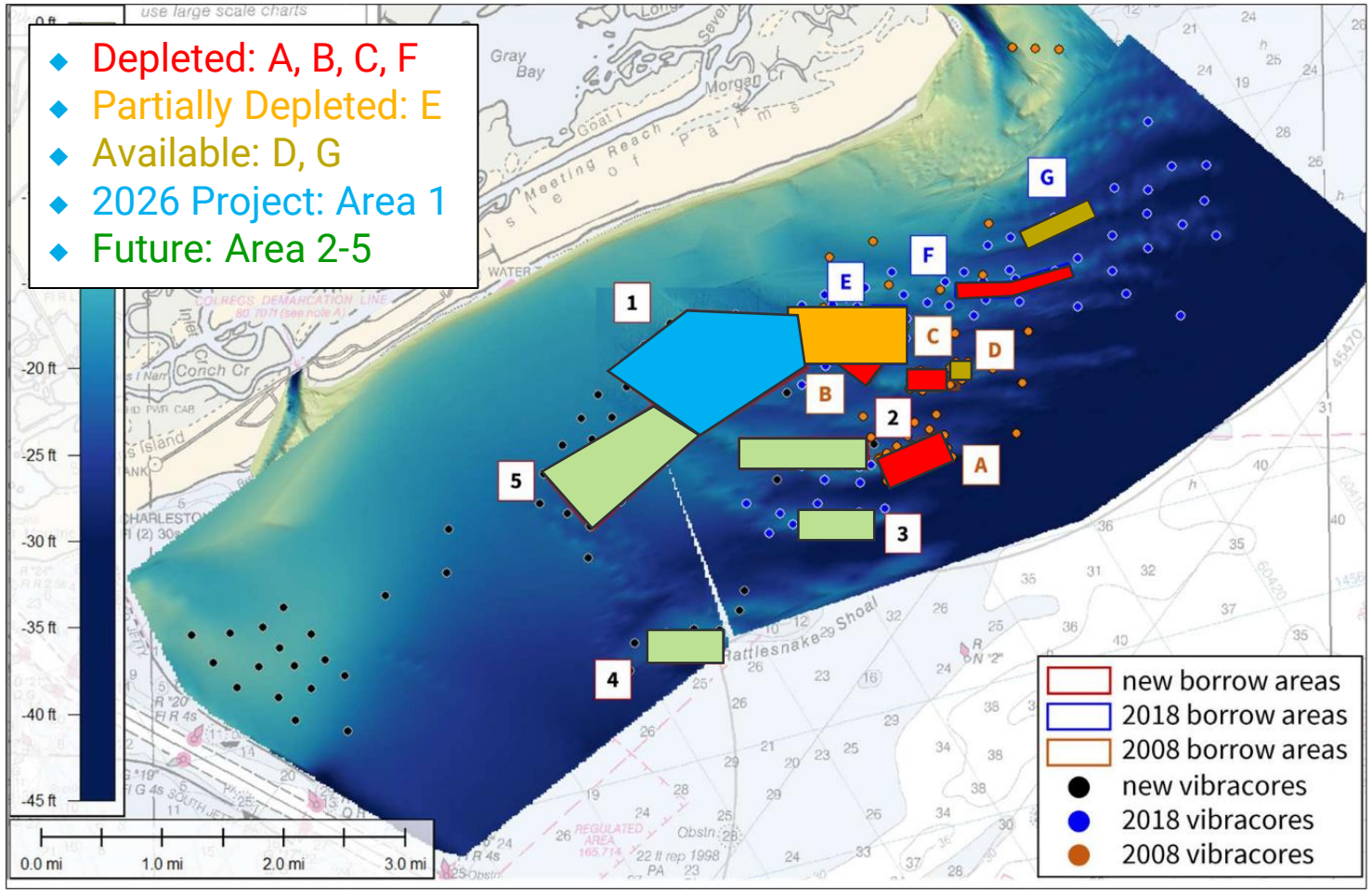


FIGURE 4.1. Location of primary offshore borrow area along with locations of borings.

Sand Availability: no more than

~25 Mcy (pre-2026) (ref: CSE)

Sand Demand:

Annual Sand Loss (cy/yr)		Planning Period (yrs)	Total Sand Demand (cy)	Total Sand Demand with 20% Contingency (cy)
Low	303,000	50	15,150,000	18,200,000
High	400,000	50	20,000,000	24,000,000

Cost Assumptions - Sand

- Offshore sand for continued renourishment
  - Mob/Demob = $1.5M
  - Sand = $9/cy (ref: recent Marinex proposal to City of IOP)
  - As needed

- Dewees Inlet Shoal Management
  - Mob/Demob = $1.0M (assumed)
  - Sand = $7.5/cy (assumed)
  - 700,000 cy every 7 years (equivalent to 100,000 cy/yr – Reaches 5 and 6 only)

- Breach Inlet AICWW Beach Disposal
  - No cost to the City of IOP (ref: communications between USACE and City of IOP)
  - 150,000 cy every 3 years (equivalent to 50,000 cy/yr – Reaches 1 and 2 only)

Cost Assumptions - Structures

- Rock - Effective unit cost = $275/ton (recent market conditions in SC & NC)
  - Terminal Groin (Reach 1) **~$4.5 to $5.5M**
  - T-Groins/Breakwaters (Reach 5) **~$4 to $5M**
  - T-Groins/Breakwaters (Reach 6) **~$3.5 to $4M**

- Geotubes – Effective unit cost = $570/ft (recent market conditions in NC)

Cost Assumptions - Other

- Planning, Engineering, and Design (PED) = 5% of construction cost
- Const. Engr and Inspection (CEI) = 7% of construction cost
- Contingency = 0% (Note: The assumed costs are based upon proposals from industry and recent market examples, so no contingency is applied to costs.)

- Planning period (*n*) = 50 years
- Discount rate (*i*) = 3.25% (2026 USACE planning guidance)

Cost Summary *(preliminary)*

Scheduled Renourishment *(offshore sand sources only; baseline condition rebuilt at time of each event)*

Alternative		Future Renourish-ment Event Volume (cy)	Future Renourish-ment Event Cost ($)	Supplemental Volume from Dewees Inlet and AICWW (cy)	Dewees Inlet Shoal Mgt ($)	Breach Inlet AICWW Beach Disposal ($)	Terminal Groin (Rch 1) ($)	**Average Annual Equivalent Cost (AAEC) ($/yr)**
Scheduled Renourishment	5-Yr Interval (Low)	1,629,600	$ 18,106,368	-	$ -	$ -	$ -	**$ 6,344,300**
	5-Yr Interval (High)	2,477,500	$ 26,653,200	-	$ -	$ -	$ -	**$ 9,273,300**
	7-Yr interval (Low)	2,451,000	$ 26,386,080	-	$ -	$ -	$ -	**$ 6,457,800**
	7-Yr Interval (High)	3,770,200	$ 39,683,616	-	$ -	$ -	$ -	**$ 9,636,800**
	10-Yr Interval (Low)	3,930,400	$ 41,298,432	-	$ -	$ -	$ -	**$ 7,116,900**
	10-Yr Interval (High)	5,988,100	$ 62,040,048	-	$ -	$ -	$ -	**$ 10,612,500**

Triggered Renourishment *(offshore sand sources only)*

Alternative		Future Renourish-ment Event Volume (cy)	Future Renourish-ment Event Cost ($)	Supplemental Volume from Dewees Inlet and AICWW (cy)	Dewees Inlet Shoal Mgt ($)	Breach Inlet AICWW Beach Disposal ($)	Terminal Groin (Rch 1) ($)	**Average Annual Equivalent Cost (AAEC) ($/yr)**
Triggered Renour-ishment	Trigger (Low) 3-Yr Interval	909,400	$ 10,846,752	-	$ -	$ -	$ -	**$ 6,151,300**
	Trigger (High) 1-Yr Interval	400,100	$ 5,713,008	-	$ -	$ -	$ -	**$ 9,923,100**

Note: "Future nourishment event volume and "cost" applies to all renourishments after first event.
The volume of the first renourishment event is increased to offset initial losses landward of Baseline.

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Cost Summary *(preliminary)*

Renourishment supplemented with AICWW Beach Disposal and Dewees Shoal Mgt

Alternative		Future Renourish-ment Event Volume (cy)	Future Renourish-ment Event Cost ($)	Supplemental Volume from Dewees Inlet and AICWW (cy)	Dewees Inlet Shoal Mgt ($)	Breach Inlet AICWW Beach Disposal ($)	Terminal Groin (Rch 1) ($)	**Average Annual Equivalent Cost (AAEC) ($/yr)**
AICWW and Dewees Inlet Mgt	5-Yr (Low)	765,600	$ 9,397,248	750,000	$ 5,320,000	$ -	$ -	**$ 5,228,200**
	5-Yr (High)	1,249,700	$ 14,276,976	750,000	$ 5,320,000	$ -	$ -	**$ 7,045,200**
	7-Yr (Low)	1,071,800	$ 12,483,744	1,050,000	$ 7,000,000	$ -	$ -	**$ 4,937,000**
	7-Yr (High)	1,749,600	$ 19,315,968	1,050,000	$ 7,000,000	$ -	$ -	**$ 6,822,300**

Renourishment supplemented with AICWW Beach Disposal and Dewees Shoal Mgt and Terminal Groin

Alternative		Future Renourish-ment Event Volume (cy)	Future Renourish-ment Event Cost ($)	Supplemental Volume from Dewees Inlet and AICWW (cy)	Dewees Inlet Shoal Mgt ($)	Breach Inlet AICWW Beach Disposal ($)	Terminal Groin (Rch 1) ($)	**Average Annual Equivalent Cost (AAEC) ($/yr)**
ALL Elements (Reaches 1, 5, and 6)	ALL 5-yr (Low)	720,000	$ 8,937,600	750,000	$ 5,320,000	$ -	$ 4,620,000	**$ 5,232,200**
	ALL 5-yr (High)	925,000	$ 11,004,000	750,000	$ 5,320,000	$ -	$ 4,620,000	**$ 6,062,300**
	ALL 7-yr (Low)	1,008,000	$ 11,840,640	1,050,000	$ 7,000,000	$ -	$ 4,620,000	**$ 4,925,800**
	ALL 7-yr (High)	1,295,000	$ 14,733,600	1,050,000	$ 7,000,000	$ -	$ 4,620,000	**$ 6,818,600**

Details provided on next slide

Note: "Future nourishment event volume and "cost" applies to all renourishments after first event. The volume of the first renourishment event is increased to offset initial losses landward of Baseline.

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Example of Event Cost and 50-yr Cost Stream for Computation of AAEC *(preliminary)*

EVENT COST

Restore Baseline and Replace Advance Fill with First Renourishment				
Item	Quantity	Unit Cost	Units	Total
Dredge Mob/Demob	1	$ 1,500,000.00	LS	$ 1,500,000.00
Sand	1,227,000	$ 9.00	cy	$ 11,043,000.00
			subtotal Construction	$ 12,543,000.00
			PED/Permitting 5%	$ 627,150.00
			CEI/Monitoring 7%	$ 878,010.00
			subtotal Project	$ 14,048,160.00
			Contingency 0%	$ -
			Total	$ 14,048,160.00

Future Maintenance (Normal Advance Fill after First Renourishment)				
Item	Quantity	Unit Cost	Units	Total
Dredge Mob/Demob	1	$ 1,500,000.00	LS	$ 1,500,000.00
Sand	1,008,000	$ 9.00	cy	$ 9,072,000.00
			subtotal Construction	$ 10,572,000.00
			PED/Permitting 5%	$ 528,600.00
			CEI/Monitoring 7%	$ 740,040.00
			subtotal Project	$ 11,840,640.00
			Contingency 0%	$ -
			Total	$ 11,840,640.00

Terminal Groin				
Item	Quantity	Unit Cost	Units	Total
Terminal Groin	15,000	$ 275.00	tons	$ 4,125,000.00
			subtotal Construction	$ 4,125,000.00
			PED/Permitting 5%	$ 206,250.00
			CEI/Monitoring 7%	$ 288,750.00
			subtotal Project	$ 4,620,000.00
			Contingency 0%	$ -
			Total	$ 4,620,000.00

Dewees Shoal Dredging				
Item	Quantity	Unit Cost	Units	Total
Dredge Mob/Demob	1	$ 1,000,000.00	LS	$ 1,000,000.00
Sand	700,000	$ 7.50	cy	$ 5,250,000.00
			subtotal Construction	$ 6,250,000.00
			PED/Permitting 5%	$ 312,500.00
			CEI/Monitoring 7%	$ 437,500.00
			subtotal Project	$ 7,000,000.00
			Contingency 0%	$ -
			Total	$ 7,000,000.00

COST STREAM

		Base Costs				Escalated Costs				Present Worth			
Year		Total Cost	Renourishment Offshore Sand and Monitoring	Terminal Groin	Dewees Shoal Mgt	Cost Escolation Factor	Renourishment Offshore Sand and Monitoring	Terminal Groin	Dewees Shoal Mgt	Renourishment Offshore Sand and Monitoring	Terminal Groin	Dewees Shoal Mgt	Present Worth Cost
0	2026	$ -	$ -	$ -	$ -	1260.04	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1	2027	$ 100,000	$ 100,000			1292.80	$ 102,600	$ -	$ -	$ 99,400	$ -	$ -	$ 99,400
2	2028	$ 4,720,000	$ 100,000	$ 4,620,000		1326.42	$ 105,268	$ 4,863,386	$ -	$ 98,700	$ 4,562,000	$ -	$ 4,660,700
3	2029	$ 100,000	$ 100,000			1360.90	$ 108,005	$ -	$ -	$ 98,100	$ -	$ -	$ 98,100
4	2030	$ 100,000	$ 100,000			1396.29	$ 110,813	$ -	$ -	$ 97,500	$ -	$ -	$ 97,500
5	2031	$ 100,000	$ 100,000			1432.59	$ 113,694	$ -	$ -	$ 96,900	$ -	$ -	$ 96,900
6	2032	$ 100,000	$ 100,000			1469.84	$ 116,650	$ -	$ -	$ 96,300	$ -	$ -	$ 96,300
7	2033	$ 21,048,160	$ 14,048,160		$ 7,000,000	1508.05	$ 16,813,218	$ -	$ 8,377,790	$ 13,440,700	$ -	$ 6,697,300	$ 20,138,000
8	2034	$ 100,000	$ 100,000			1547.26	$ 122,795	$ -	$ -	$ 95,100	$ -	$ -	$ 95,100
9	2035	$ 100,000	$ 100,000			1587.49	$ 125,987	$ -	$ -	$ 94,500	$ -	$ -	$ 94,500
10	2036	$ 100,000	$ 100,000			1628.77	$ 129,263	$ -	$ -	$ 93,900	$ -	$ -	$ 93,900
11	2037	$ 100,000	$ 100,000			1671.12	$ 132,624	$ -	$ -	$ 93,300	$ -	$ -	$ 93,300
12	2038	$ 100,000	$ 100,000			1714.56	$ 136,072	$ -	$ -	$ 92,700	$ -	$ -	$ 92,700
13	2039	$ 100,000	$ 100,000			1759.14	$ 139,610	$ -	$ -	$ 92,100	$ -	$ -	$ 92,100
14	2040	$ 18,840,640	$ 11,840,640		$ 7,000,000	1804.88	$ 16,960,521	$ -	$ 10,026,793	$ 10,838,700	$ -	$ 6,407,700	$ 17,246,400
15	2041	$ 100,000	$ 100,000			1851.81	$ 146,964	$ -	$ -	$ 91,000	$ -	$ -	$ 91,000
16	2042	$ 100,000	$ 100,000			1899.96	$ 150,786	$ -	$ -	$ 90,400	$ -	$ -	$ 90,400
17	2043	$ 100,000	$ 100,000			1949.35	$ 154,705	$ -	$ -	$ 89,800	$ -	$ -	$ 89,800
18	2044	$ 100,000	$ 100,000			2000.04	$ 158,728	$ -	$ -	$ 89,300	$ -	$ -	$ 89,300
19	2045	$ 100,000	$ 100,000			2052.04	$ 162,855	$ -	$ -	$ 88,700	$ -	$ -	$ 88,700
20	2046	$ 100,000	$ 100,000			2105.39	$ 167,089	$ -	$ -	$ 88,100	$ -	$ -	$ 88,100
21	2047	$ 18,840,640	$ 11,840,640		$ 7,000,000	2160.13	$ 20,298,817	$ -	$ 12,000,341	$ 10,370,000	$ -	$ 6,130,600	$ 16,500,600
22	2048	$ 100,000	$ 100,000			2216.29	$ 175,890	$ -	$ -	$ 87,000	$ -	$ -	$ 87,000
23	2049	$ 100,000	$ 100,000			2273.92	$ 180,464	$ -	$ -	$ 86,500	$ -	$ -	$ 86,500
24	2050	$ 100,000	$ 100,000			2333.04	$ 185,156	$ -	$ -	$ 85,900	$ -	$ -	$ 85,900
25	2051	$ 100,000	$ 100,000			2393.70	$ 189,970	$ -	$ -	$ 85,400	$ -	$ -	$ 85,400
26	2052	$ 100,000	$ 100,000			2455.94	$ 194,910	$ -	$ -	$ 84,900	$ -	$ -	$ 84,900
27	2053	$ 100,000	$ 100,000			2519.79	$ 199,977	$ -	$ -	$ 84,300	$ -	$ -	$ 84,300
28	2054	$ 18,840,640	$ 11,840,640		$ 7,000,000	2585.30	$ 24,294,155	$ -	$ 14,362,322	$ 9,921,600	$ -	$ 5,865,500	$ 15,787,100
29	2055	$ 100,000	$ 100,000			2652.52	$ 210,511	$ -	$ -	$ 83,300	$ -	$ -	$ 83,300
30	2056	$ 100,000	$ 100,000			2719.73	$ 215,845	$ -	$ -	$ 82,700	$ -	$ -	$ 82,700
31	2057	$ 100,000	$ 100,000			2788.65	$ 221,314	$ -	$ -	$ 82,100	$ -	$ -	$ 82,100
32	2058	$ 100,000	$ 100,000			2859.31	$ 226,922	$ -	$ -	$ 81,500	$ -	$ -	$ 81,500
33	2059	$ 100,000	$ 100,000			2931.77	$ 232,672	$ -	$ -	$ 81,000	$ -	$ -	$ 81,000
34	2060	$ 100,000	$ 100,000			3006.06	$ 238,568	$ -	$ -	$ 80,400	$ -	$ -	$ 80,400
35	2061	$ 18,840,640	$ 11,840,640		$ 7,000,000	3082.23	$ 28,963,793	$ -	$ 17,122,939	$ 9,455,900	$ -	$ 5,590,200	$ 15,046,100
36	2062	$ 100,000	$ 100,000			3160.33	$ 250,812	$ -	$ -	$ 79,300	$ -	$ -	$ 79,300
37	2063	$ 100,000	$ 100,000			3240.41	$ 257,167	$ -	$ -	$ 78,800	$ -	$ -	$ 78,800
38	2064	$ 100,000	$ 100,000			3322.52	$ 263,684	$ -	$ -	$ 78,200	$ -	$ -	$ 78,200
39	2065	$ 100,000	$ 100,000			3406.71	$ 270,365	$ -	$ -	$ 77,700	$ -	$ -	$ 77,700
40	2066	$ 100,000	$ 100,000			3493.03	$ 277,216	$ -	$ -	$ 77,100	$ -	$ -	$ 77,100
41	2067	$ 100,000	$ 100,000			3581.55	$ 284,241	$ -	$ -	$ 76,600	$ -	$ -	$ 76,600
42	2068	$ 18,840,640	$ 11,840,640		$ 7,000,000	3672.30	$ 34,508,733	$ -	$ 20,401,020	$ 9,006,300	$ -	$ 5,324,400	$ 14,330,700
43	2069	$ 100,000	$ 100,000			3765.35	$ 298,828	$ -	$ -	$ 75,500	$ -	$ -	$ 75,500
44	2070	$ 100,000	$ 100,000			3860.77	$ 306,400	$ -	$ -	$ 75,000	$ -	$ -	$ 75,000
45	2071	$ 100,000	$ 100,000			3958.60	$ 314,164	$ -	$ -	$ 74,500	$ -	$ -	$ 74,500
46	2072	$ 100,000	$ 100,000			4058.90	$ 322,125	$ -	$ -	$ 74,000	$ -	$ -	$ 74,000
47	2073	$ 100,000	$ 100,000			4161.75	$ 330,287	$ -	$ -	$ 73,500	$ -	$ -	$ 73,500
48	2074	$ 100,000	$ 100,000			4267.21	$ 338,657	$ -	$ -	$ 73,000	$ -	$ -	$ 73,000
49	2075	$ 18,840,640	$ 11,840,640		$ 7,000,000	4375.34	$ 41,115,218	$ -	$ 24,306,670	$ 8,578,100	$ -	$ 5,071,200	$ 13,649,300
50	2076	$ 100,000	$ 100,000			4486.21	$ 356,037	$ -	$ -	$ 71,900	$ -	$ -	$ 71,900
	Total Present Worth									$ 75,287,200	$ 4,562,000	$ 41,086,900	$ 120,936,100
	Discount Rate									3.25%	3.25%	3.25%	3.25%
	Amortization Period (years)									50	50	50	50
	Capital Recovery Factor									0.04073	0.04073	0.04073	0.04073
	Avg Annual Equivalent Cost									**$ 3,066,500**	**$ 185,800**	**$ 1,673,500**	**$ 4,925,800**

AAEC

Example is for 7-Year periodic renourishment, sand contributions from Dewees Inlet shoal and AICWW (Breach Inlet), and Terminal Groin (Reach 1)

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Cost Summary - Comments

- Cost-effectiveness benefits derived from…
  - Frequent, no cost sand from USACE AICWW Maintenance dredging
  - Potentially lower cost sand from Dewees Inlet shoal management compared to cost of sand from offshore
  - Reduced sand loss from terminal groin at southern end of the island

Future Management

- Establish/Confirm Beach Management Baseline
- Prioritize beach management practices that provide best opportunities to maintain baseline conditions at all times
- Prioritize management practices that minimize cost

Recommendations for Consideration

- Establish appropriate beach management baseline
- Pursue agreement with Marinex for proposed renourishment pricing
- Pursue agreement with USACE to provide beach compatible sand to Reaches 1 and 2 from Breach Inlet AICWW Maintenance Dredging
- Investigate in more detail the feasibility, scope and cost of Dewees Inlet Shoal Management (Consider a test project)
- Investigate in more detail the feasibility, scope, and cost of a Terminal Groin at the southern end of Reach 1
- Consider last line of defense structural solutions in Reaches 5 and 6 to compliment Dewees Inlet Shoal Management

City of Isle of Palms
Beach Preservation Committee

Beach Management
Alternatives Analysis – Findings Discussion



September 2, 2026

City of Isle of Palms

Request for Proposals (RFP 2026-11)

Beach Management Projects Preliminary Engineering and Scoping

Requirement. The City of Isle of Palms ("City") requests proposals from qualified coastal engineering firms to perform preliminary engineering and feasibility assessments for two potential beach management projects: (1) a terminal groin at the southern end of the Isle of Palms near Breach Inlet in Reach 1, and (2) a Dewees Inlet shoal management project serving the northern end of Isle of Palms, principally Reaches 5 and 6. These reach designations are shown in the supplied references. Firms are requested to propose both projects. A proposal addressing only one project will, nevertheless, still be considered. The City may select one firm for both projects, separate firms, or no firm.

This solicitation seeks decision-ready, planning-level engineering analyses and cost estimates. This engagement excludes final design, submission of permit applications, and construction, including construction of a test project. A selected firm may be considered for later work under a separate authorization or procurement, at the City's discretion. No later phase is guaranteed.

BACKGROUND

Foth | Olsen presented its Beach Management Alternatives Analysis to City Council on September 22, 2026. Its recommendations include further investigation of the feasibility, scope, and cost of a terminal groin at the southern end of Reach 1 and of a shoal management project at the Dewees Inlet shoal, potentially including a test project. The presentation's structure dimensions, sand volumes, performance estimates, intervals, and cost assumptions are conceptual. Proposers should evaluate them, not treat them as approved designs or guaranteed outcomes.

The Foth | Olsen presentation is a reference document for this RFP. Additionally, the City intends to include Foth's final written report and the most recent beach monitoring report when available [currently stated to be ready on 9 OCT]; the final reference list is to be confirmed. Proposers shall identify additional data they need and avoid duplicating reliable existing work.

SCOPE OF WORK AND SERVICES - OVERVIEW

For each project awarded, the selected firm shall prepare a preliminary engineering assessment and project implementation plan sufficient for the City to understand feasibility, major risks, likely approvals, planning-level costs, schedule, and the next major decision point(s). In the proposal, identify the field investigations, analyses, environmental studies, public engagement, and regulatory coordination proposed for this engagement, and the resulting data and findings the City will receive. Distinguish this work from studies and services recommended for later phases. The selected firm shall perform the work agreed in the contract and deliver the resulting data and findings. Explain which work is essential now, which can be deferred, and what would cause the City to stop or change course. The firm shall propose a regular cadence of staff coordination and progress reporting, including at least monthly In Progress Reviews (IPRs) with City staff.

The end state is a separate preliminary engineering report and executive briefing for each project, presenting the planning-level analyses and cost estimates the City needs to decide whether to proceed to design and permitting, obtain specified additional information, or modify or discontinue the project. Each report shall present the recommended concept and design considerations, potential impacts, risks, unresolved questions, and cost ranges with their assumptions. Its implementation plan shall identify the studies, approvals, design work, schedule, and City decisions needed before construction bidding. Address regulatory feasibility and property and access constraints, including potential barriers,

DRAFT

required permissions, and information needed to resolve them. Support each recommendation with engineering findings; identify the information needed to resolve any uncertainty that prevents a decision. Deliver a draft report and implementation plan for City review, then final versions addressing City comments. Provide reports and plans in PDF and editable formats, supporting data and analysis files in their native or commonly usable formats, and briefing slides in PDF and editable formats. Include one executive presentation per project to City Council or its designated committee, with staff coordination through the IPRs. Final design, permit applications, test-project construction, and construction bid packages are outside this initial engagement.

PROJECT 1 TERMINAL GROIN AT SOUTHERN END OF REACH 1

Evaluate whether a terminal groin or similar structure can reduce sand loss and support the City's beach management goals at the southern end of Isle of Palms. Examine existing beach and inlet conditions; plausible structure locations, configurations, and materials; interaction with nourishment; construction access; expected performance; maintenance; and effects under a no-action comparison. Assess potential changes to erosion, accretion, sediment transport, inlet morphology, navigation, and habitat on Isle of Palms, within Breach Inlet, and at Sullivan's Island and other potentially affected areas. Explain uncertainties, methods, and the additional work needed to establish and address impacts.

For Project 1, submit completed Grid A (A1–A9) in Appendix 1, Pricing. Use the grid to summarize fees, future cost estimates, and their basis. Explain the technical approach in the proposal narrative and cross-reference it by element identifier; do not repeat the narrative in the grid. The pricing instructions below apply to both grids.

Work element	Proposed fee for current work	Later cost estimate	Cost basis and exclusions
A1. Preliminary engineering and feasibility	Fee estimate	Future work range, if any	Data, concept refinement, surveys, modeling, and deliverables
A2. Downdrift and adjacent-area impacts	Fee estimate	Follow-on study range	IOP, Breach Inlet, Sullivan's Island, waterways, habitat
A3. Design costs and factors	Scoping fee, if any	Preliminary and final design range	Structure options, dimensions, geotechnical needs, nourishment
A4. Permitting and environmental review	Scoping fee, if any	Studies and permit-phase range	Likely approvals, sequence, agency consultation, uncertainty
A5. Construction administration and inspection	Scoping fee, if any	Future services range	Duration, field staffing, observation, testing, reporting
A6. Construction and initial nourishment	Estimating fee, if any	Capital range	Quantities, unit rates, access, mobilization, contingency
A7. Monitoring, maintenance, and adaptive action	Scoping fee, if any	Annual and event range	Surveys, performance measures, repair, sand bypass needs
A8. Other critical factors	Fee estimate	Future cost range	Identify risks, dependencies, exclusions, and allowances
A9. Total current engagement cost	Base fee + estimated reimbursables = total	N/A	Itemize reimbursables; optional tasks excluded

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PROJECT 2 DEWEES INLET SHOAL MANAGEMENT FOR REACHES 5 AND 6

Evaluate the feasibility of intercepting suitable sand within the shoal system adjacent to Dewees Inlet and placing it along the north end of Isle of Palms, principally Reaches 5 and 6. Assess potential borrow areas, sediment compatibility and availability, shoal movement and inlet dynamics, dredge access and methods, placement locations, project volume and frequency, potential test project, and integration with other beach work. Examine potential effects on Isle of Palms, Dewees Island, the inlet and adjacent waterways and land masses, navigation, habitat, and neighboring shorelines. Assess possible borrow and placement configurations against existing conditions and identify the information needed to define an initial project.

For Project 2, submit completed Grid B (B1–B10) in Appendix 1, Pricing, using the same instructions as Grid A. Address B3 as a separate test-project scenario: propose the preliminary work needed to assess and scope a test, estimate its possible later implementation costs, or explain why a test is not recommended. B4–B8 shall describe the larger shoal management project. Explain whether the test would be additional to, substitute for, or contribute to that project; identify shared costs and do not add overlapping test and larger-project estimates together.

Work element	Proposed fee for current work	Later cost estimate	Cost basis and exclusions
B1. Preliminary engineering and feasibility	Fee estimate	Future work range, if any	Shoal mapping, sediment, dredge access, placement options
B2. Downdrift and adjacent-area impacts	Fee estimate	Follow-on study range	IOP, Dewees Island, inlet, waterways, habitat
B3. Test project	Scoping fee, if any	Design, permits, build, and monitoring ranges	Candidate scale, objectives, decision criteria; or rationale against test
B4. Design costs and factors	Scoping fee, if any	Preliminary and final design range	Borrow limits, fill template, volumes, equipment, sequencing
B5. Permitting and environmental review	Scoping fee, if any	Studies and permit-phase range	Likely approvals, agency consultation, constraints
B6. Construction administration and inspection	Scoping fee, if any	Future services range	Dredging and placement oversight, surveys, reporting
B7. Construction and sand placement	Estimating fee, if any	Capital range per event	Mob/demob, cubic-yard pricing, contingency, frequency
B8. Monitoring, maintenance, and adaptive action	Scoping fee, if any	Annual and event range	Shoal/shoreline response, sediment budget, triggers
B9. Other critical factors	Fee estimate	Future cost range	Identify risks, dependencies, exclusions, and allowances
B10. Total current engagement cost	Base fee + estimated reimbursables = total	N/A	Itemize reimbursables; optional tasks excluded

Pricing instructions. “Proposed fee for current work” is the estimated fee for this preliminary engineering engagement; state whether pricing is fixed or time and materials. “Later cost estimate” is a planning-level estimate for a future phase or construction. Base proposal-stage estimates on available information and stated assumptions. No new field work, modeling, or studies are required to prepare a proposal. If a future cost cannot yet be estimated reliably, explain what information is needed. The selected firm shall refine these estimates during the assessment.

For future costs, provide low, most-likely, and high ranges where practicable, with the price year, available quantities or unit rates, contingency, escalation assumptions, and cost drivers. Identify shared

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tasks, services by others, and combined-project savings. Price each current task once; cross-reference any fee included in another element. A9 and B10 shall show the base professional fee, estimated reimbursables, and total estimated current-engagement cost. Include required subconsultant and other current costs in that total and identify their basis. Show optional tasks separately, excluded from the base total. No City-imposed not-to-exceed budget is specified.

PROPOSAL CONTENTS AND SUBMITTAL INSTRUCTIONS

Consistent with the City's procurement procedures, the City seeks evidence of professional and technical qualifications, demonstrated competence, and a practical approach to the work. Issue date: to be confirmed. Proposal submission deadline: to be confirmed. Submit one hard copy in a sealed envelope marked "RFP 2026-11 - Beach Management Projects Preliminary Engineering and Scoping."

Physical Address Instructions (Delivery by Courier or Mail Service such as FEDEX):
C/o Douglas Kerr
City Administrator
City of Isle of Palms
1207 Palm Boulevard
Isle of Palms, South Carolina 29451

Mailing Instructions (US Mail):
C/o Douglas Kerr
City Administrator
City of Isle of Palms
Post Office Box 508
Isle of Palms, South Carolina 29451

Questions shall be submitted by email to Deputy City Administrator Sean Kuester at skuester@isleofpalms.gov. Question deadline: to be confirmed. Answers will be issued by addendum on the City's Requests for Bids and Proposals webpage. Questions sent after the deadline will not be answered. Proposers are responsible for reviewing all addenda and shall acknowledge each addendum in their proposal.

PROPOSAL REQUIREMENTS

The narrative portion should not exceed twenty pages (approximately ten pages per project). The cost grids, pricing information, resumes, relevant project examples, and references may be appended and will not count against the twenty-page limit. A proposal for one project shall clearly identify that project. At a minimum, include:

1. **Cover Letter**. Authorized representative(s); identify the project or projects proposed; Executive Summary at discretion.
2. **Qualifications**. Describe the firm's qualifications and proposed team, highlighting experience in coastal engineering, inlet and sediment analysis, modeling, environmental review, permitting, and similar projects in South Carolina.
3. **Project Approach.** Describe the overall approach, then explain how each applicable scope requirement will be addressed. Use A/B identifiers to connect the narrative to the grids; cross-references may replace repeated content. Address technical methods, existing information, field investigations and modeling, impacts, project concept and design considerations, public engagement, regulatory coordination, and City decision points. Distinguish current work from later phases. Describe the preliminary engineering report, implementation plan, executive briefing, and supporting data and files the City will receive. Explain how the findings will support a decision to

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proceed, obtain additional information, or modify or discontinue the project. Explain the basis for any recommended change to the project concept.

4. **Timeline and Coordination.** Provide a schedule for each project, critical dependencies, agency coordination, anticipated City decisions or data needs, staff meeting cadence, and progress reporting. Include milestones for draft delivery, City review, final delivery, and the executive presentation. Proposers should anticipate at least monthly In Progress Reviews (IPRs) with City staff to keep staff abreast of the project's progress.
5. **Disclosures**. Disclosure of current or recent roles on the City's beach program or with other potentially affected interests, with an approach to maintaining independent analysis.

A. **Appendix 1.** Pricing. Submit completed Grid A and/or Grid B with a supporting pricing narrative organized by the same element identifiers. Follow the pricing instructions under Scope of Work and Services. Provide hourly rates, reimbursables, subconsultant costs, exclusions, optional tasks, and combined-project savings. Explain whether taxes, travel, field work, laboratory services, and agency fees are included in the base fee or estimated reimbursables; include all required current costs in the total. Identify the supporting data and files included in the proposed fee. Cross-reference technical methods and schedules in the proposal narrative instead of restating them here.
B. **Appendix 2**. Resumes. These are in addition to the more broad "qualifications" section. At proposer discretion, list individual resumes.
C. **Appendix 3**. Relevant Work and References. At least three comparable projects with client contacts.

EVALUATION PROCESS AND CRITERIA

The City may evaluate the projects separately and may interview firms, request clarification, negotiate scope and price, or decline to award. Evaluation will consider at least: understanding of the particular shoreline and inlet systems; quality and independence of the proposed investigation and impact methods; relevant project and permitting experience; qualifications and availability of the named team; clarity of deliverables and schedule; and value and transparency of the proposed fees and planning-level cost estimates. The City reserves the right to reject any or all proposals, waive minor irregularities, and cancel the solicitation if in its best interest. Additional evaluation criteria may be applied at the City's discretion.

GENERAL SUBMISSION TERMS

Deadline for Submissions: to be confirmed. Proposals will be received by mail or courier in a sealed envelope clearly marked with the RFP number and title and containing one hard copy. It is the responsibility of proposers to verify receipt by the City. No proposal will be considered unless actually received by the City at the stated place, date, and time. The City is not responsible for any failure, misdirection, delay, or error resulting from the proposer's selected delivery method. All proposals shall include a current email address.

Proprietary and/or Confidential Information: Proposals are public documents under the South Carolina Freedom of Information Act, except for information determined by the City to qualify for an exception to disclosure. All information claimed to be confidential or proprietary must be clearly identified. Each page containing such information, in whole or in part, must be marked CONFIDENTIAL in bold type of at least 12 points in the upper-right corner. All information not so identified will be subject to disclosure by the City.

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Proposers acknowledge that the City will not be liable for costs, expenses, losses, damages, or liabilities incurred in preparing or submitting a proposal, negotiating changes, or as a result of acceptance, nonacceptance, or rejection of proposals. Proposers are responsible for accurate, adequate, and clear responses. Neither issuance of this RFP nor receipt and evaluation of a response commits the City to award a contract. Proposers must have or be able to obtain an Isle of Palms business license.

REFERENCE DOCUMENTS

- Reference 1. Foth | Olsen, Beach Management Alternatives Analysis, presentation to City Council, September 22, 2026, including the project concepts and recommendations on slide 40. To be supplied with this RFP.
- Reference 2. Foth | Olsen final written report. Title, date, and availability: to be confirmed.
- Reference 3. Most recent City beach monitoring report. Title, date, and availability: to be confirmed.

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Douglas Kerr

From: Scott Finnis <sfinnis@coastalscience.com>
Sent: Tuesday, September 29, 2026 11:37 AM
To: Douglas Kerr; Sean Kuester; Andrew P. Schumacher
Cc: Steven Traynum
Subject: IOP Sand Fencing Plan Draft
Attachments: 2623-IOP Sand Fencing Plan_compressed.pdf

All,

Attached is the sand fencing and vegetation plan draft given the updated budget. Let me know if you want to discuss these plans further, possibly after our weekly meeting on Thursday. Below is a recap of what is suggested and why each reach:

Reaches 1 and 2: Given the full budget for Reaches 1 and 2 the design doesn't change all that much. Vegetation is still the same spacing at 18" on center between each plant and has the same plant variation that was specified in the bid. This covers the same 40 feet of dune that was suggested in previous iterations. For fencing in Reach 1 it extends the whole dune, with the exception of some sections removed from where prominent walkways are. This fencing has been moved to cover the area where the dune wasn't built further east. For fencing in Reach 2 it extends the whole with sections removed at walkovers. These sections have been moved in front of Grand Pavilion where a dune exists but can benefit from fencing.

Reach 3: Due to the decreased budget, the spacing between vegetation has been adjusted to 24" on center while still covering the 40 feet of dune width. For fencing we concentrated on fencing further north of the fill where the dune was not built, as we felt these areas would best benefit from fencing. The fencing has been spaced so that there is plenty of access with homes and public walkways. There is some variation for Reach 3 on if fencing is removed from certain areas it may free up more money to add more vegetation. This rewuires input from the City on what they want to do with fencing here.

Let me know if you guys want to go over this Thursday or on a different meeting.

Thanks,

Scott Finnis
Coastal Engineer at Coastal Science & Engineering, Inc.

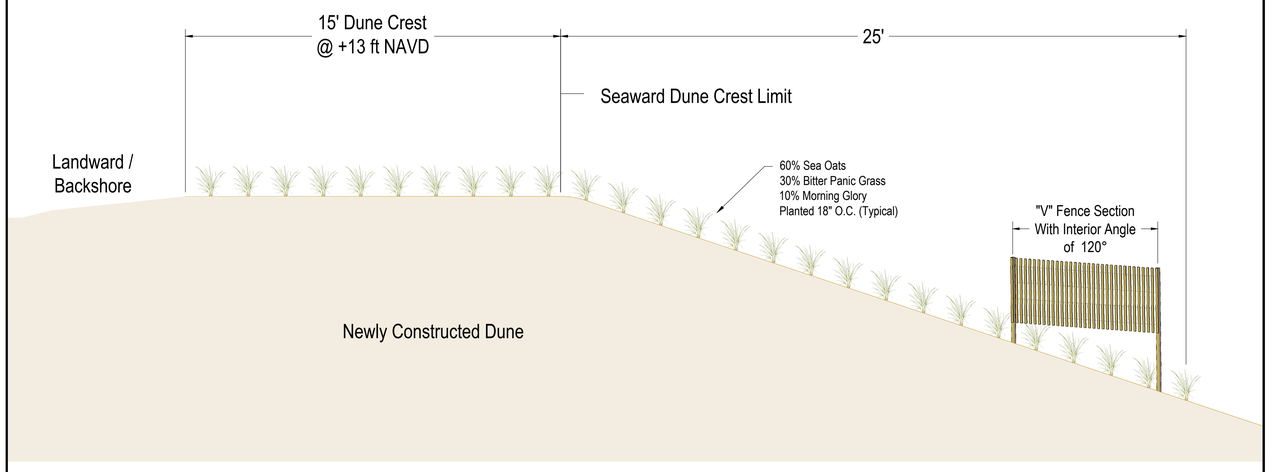
Phone 973-713-2917
Web www.coastalscience.com
Email sfinnis@coastalscience.com
PO 8056, Columbia, SC 29202





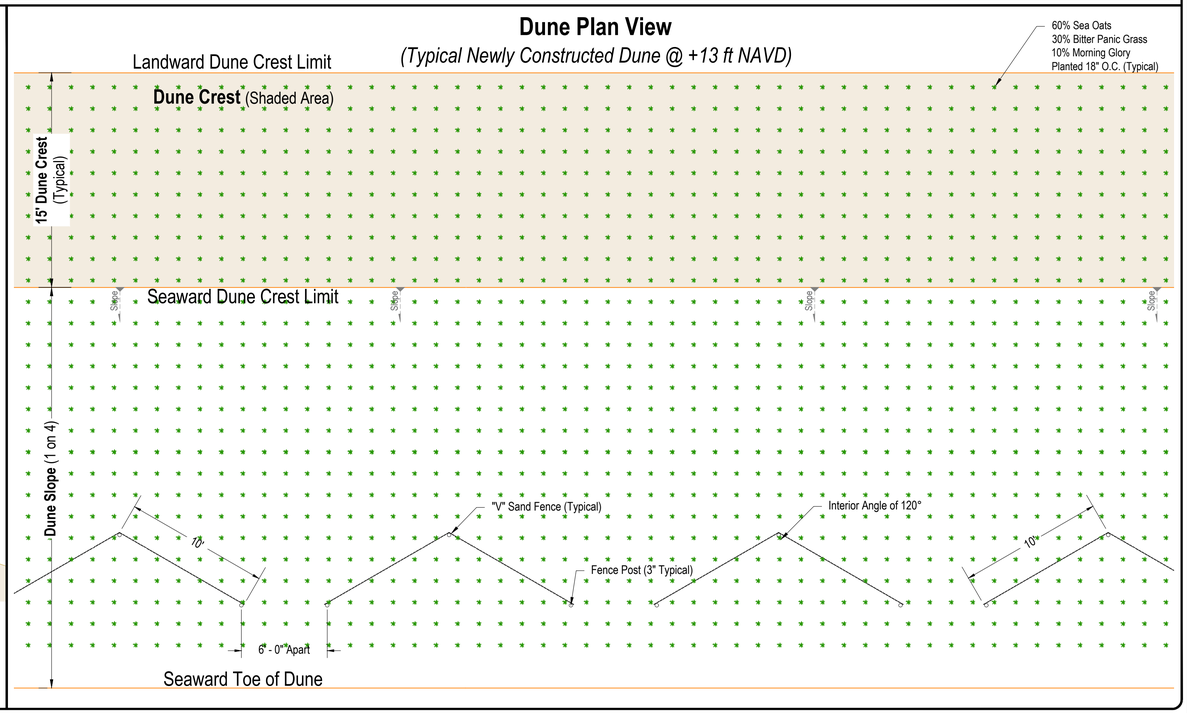
Dune Section View

(Typical Newly Constructed Dune @ +13 ft NAVD)



Dune Plan View

(Typical Newly Constructed Dune @ +13 ft NAVD)



Survey Datum:
Horizontal: NAD83 South Carolina State Planes, International Foot
Vertical: NAVD '88 (Feet)
Photo: 5 February 2026 by Coastal Science & Engineering
Data Collected: June 2026

Dune Crest
Dune Slope

KEYNOTE
A Construction Access
S Staging Area
P Daily Parking
W Walkover

Coastal Science & Engineering

CLIENT:
CITY OF ISLE OF PALMS
1207 PALM BLVD.
ISLE OF PALMS SC 29451

PROJECT:
Beach Nourishment Project

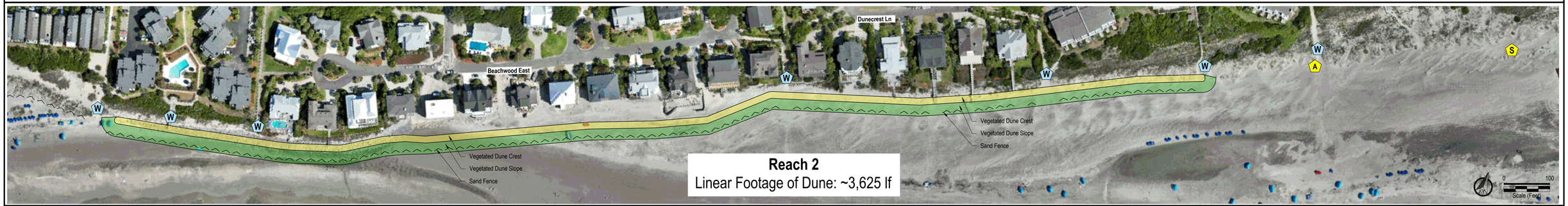
DRAWING TITLE:
Sand Fencing Plan

SOUTH CAROLINA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS
COASTAL SCIENCE & ENGINEERING No. C01950
CERTIFICATE OF AUTHORIZATION

SCALE:	AS SHOWN
DATE:	28 Sept 2026
DRAWN BY:	SF
APPROVED BY:	SBT
PROJECT #:	2623

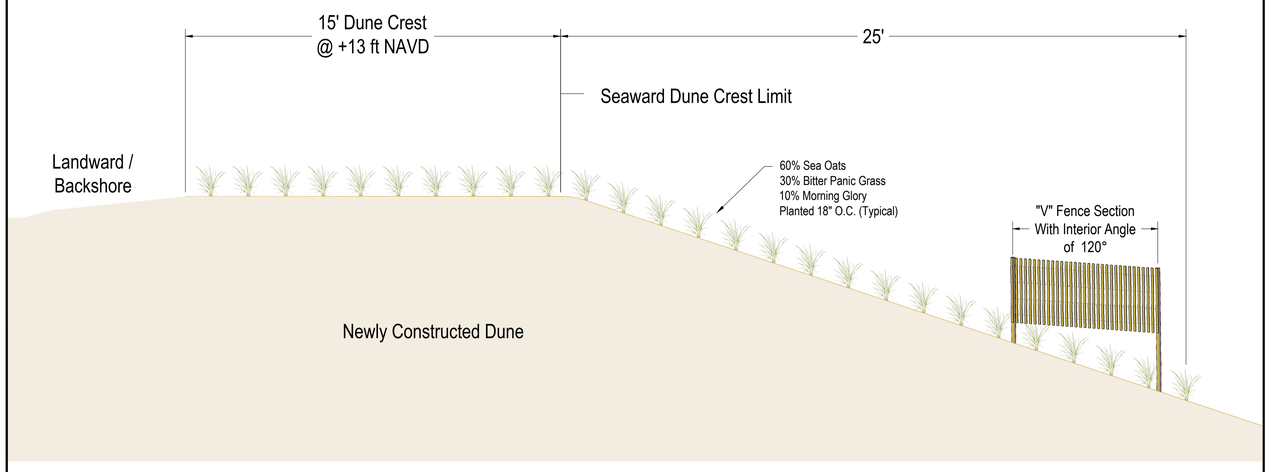
SHEET NO: **SF1**



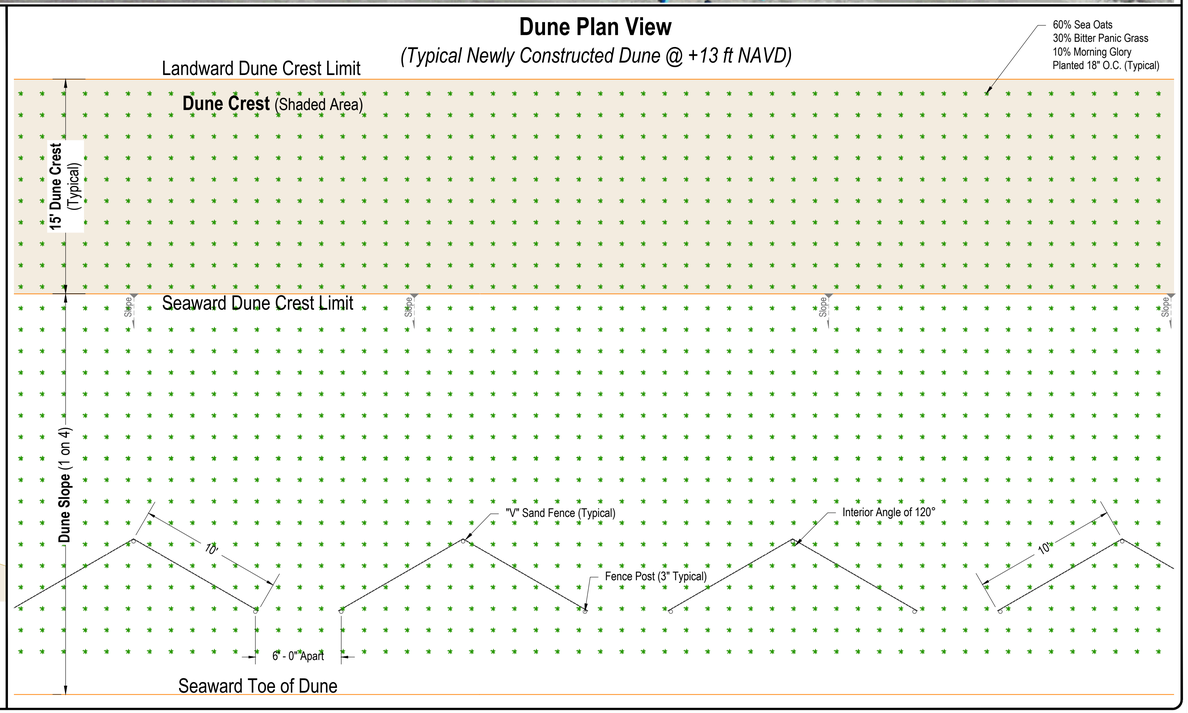


Reach 2
Linear Footage of Dune: ~3,625 lf

Dune Section View
(Typical Newly Constructed Dune @ +13 ft NAVD)



Dune Plan View
(Typical Newly Constructed Dune @ +13 ft NAVD)



Survey Datum:
Horizontal: NAD83 South Carolina State Planes, International Foot
Vertical: NAVD '88 (Feet)
Photo: 5 February 2026 by Coastal Science & Engineering
Data Collected: June 2026

Dune Crest
Dune Slope

KEYNOTE
A Construction Access
S Staging Area
P Daily Parking
W Walkover

Coastal Science & Engineering

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CITY OF ISLE OF PALMS
1207 PALM BLVD.
ISLE OF PALMS SC 29451

PROJECT:
Beach Nourishment Project

DRAWING TITLE:
Sand Fencing Plan

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
COASTAL SCIENCE & ENGINEERING No. C01950

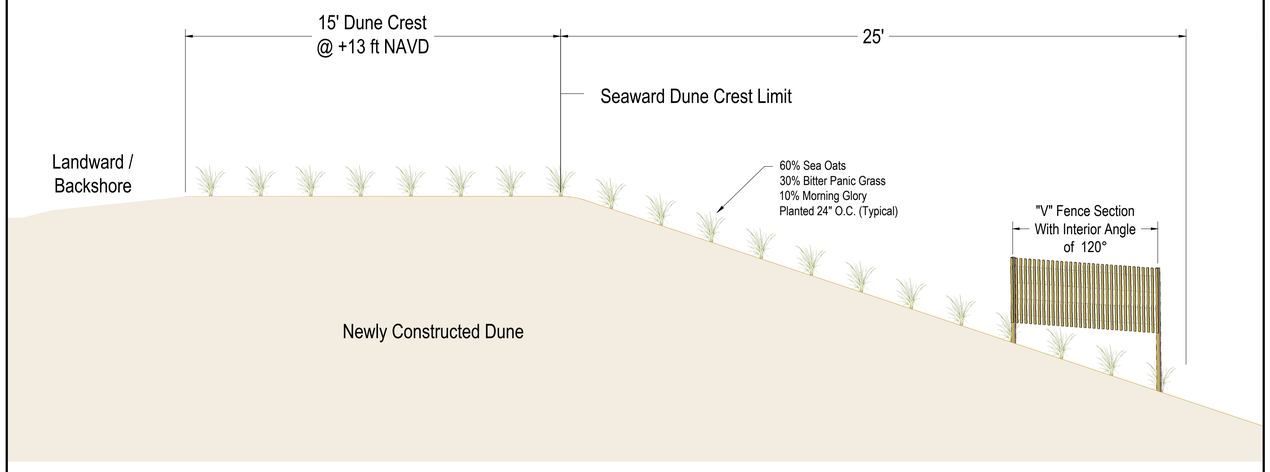
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DATE:	28 Sept 2026
DRAWN BY:	SF
APPROVED BY:	SBT
PROJECT #:	2623

SHEET NO: **SF2**



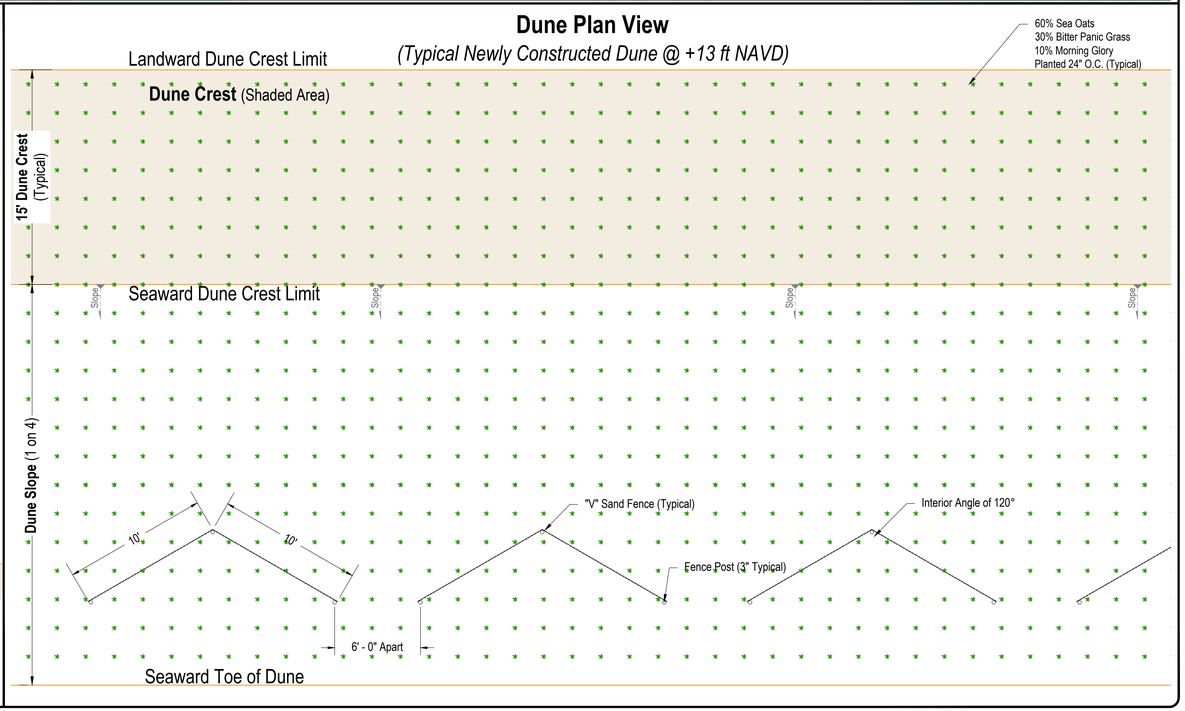
Dune Section View

(Typical Newly Constructed Dune @ +13 ft NAVD)



Dune Plan View

(Typical Newly Constructed Dune @ +13 ft NAVD)



Survey Datum:
Horizontal: NAD83 South Carolina State Planes, International Foot
Vertical: NAVD '88 (Feet)
Photo: 5 February 2026 by Coastal Science & Engineering
Data Collected: June 2026

Dune Crest
Dune Slope

KEYNOTE

- A — Construction Access
- S — Staging Area
- P — Daily Parking
- W — Walkover

Coastal Science & Engineering

CLIENT:
CITY OF ISLE OF PALMS
1207 PALM BLVD.
ISLE OF PALMS SC 29451

PROJECT:
Beach Nourishment Project

DRAWING TITLE:
Sand Fencing Plan

SOUTH CAROLINA — COASTAL SCIENCE & ENGINEERING No. C01950 — CERTIFICATE OF AUTHORIZATION

SCALE:	AS SHOWN
DATE:	28 Sept 2026
DRAWN BY:	SF
APPROVED BY:	SBT
PROJECT #:	2623

SHEET NO: **SF3**