



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2025/2026
Inlet Projects Application

PART I: GENERAL INFORMATION

Local Sponsor

Federal ID Number (FEID)

Primary Contact Name Title

Mailing Address Line 1

Mailing Address Line 2

City Zip Code Telephone Number

Email Address

Additional Contact Information

Dave Kershaw
Director, Contracts & Budget
Email: dkershaw@sitd.us
Office: 321-724-5175

PART II: CERTIFICATION

I hereby certify that all information provided with this application is true and complete to the best of my knowledge.

Signature of Local Sponsor

Electronic or scanned signatures accepted.

Printed Name

Date



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PART III: EVALUATION CRITERIA

1. Project Name: As listed in the Inlet Management Plan (IMP) or Strategic Beach Management Plan (SBMP)

Sebastian Inlet (IMP) Implementation

2. Project Description: Include county, location with reference to DEP range monuments, brief project history, and description of proposed activities.

The Sebastian Inlet Management Plan (IMP) implementation project is located between DEP monuments R-215 and R-219 in Brevard County and R-1 - R-17 in Indian River County. The inlet channel, sand trap and associated structures are maintained by the Sebastian Inlet District Commission (District). Maintenance dredging of the channel and sand trap occur periodically, with placement of beach compatible material on the downdrift beaches located south the of inlet.

The District's Inlet Management Plan (IMP) was adopted in 2000, revised in 2005 via a Technical Advisory (TAC) and was updated in 2023.

Since 2000, the District has placed 856,214 cubic yards of sand on the beach within the permitted template. In 2010-2011 the District partnered with Indian River County to fund the placement of approximately 298,580 cubic yards of trucked upland sand on their Sector 3 project between R-20 and R-40. The total District sediment bypassing (2000-2024) is 1,155,064 cubic yards.

In 2011, the Dredged Material Management Area (DMMA) was constructed, which allows the District the ability to store more than 30,000 cubic yards of beach compatible sand for placement on downdrift beaches.

Future Inlet management plan activities include continuing sediment bypassing of dredged sand trap and channel materials at a frequency of every 4-6 years, supplemental upland sand truck haul bypassing needed to meet the bypassing objective of the IMP, post project permit required monitoring (physical, biological and sea turtle) and all other implementation strategies identified in the Sebastian IMP.



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3. Use of Requested Program Funds: Provide a brief description of tasks to be completed in each requested phase (Feasibility, Design, Construction, or Monitoring). Indicate which tasks are cost reimbursement from previous fiscal years.

50% State Cost Share Funds will be used for Design, Construction and Monitoring

4. Map: Provide as an attachment.

- **Format:** The project area must be formatted at a minimum of 1" = 200' scale and include a compass rose and legend.
- **Required elements:** Project boundary, DEP reference monuments, shoreline designated as critically eroded, area of inlet influence, and permitted sand bypassing placement area

5. Project length: Total restored project boundary (in feet) as listed in the IMP or SBMP. 17,000 ft. downdrift

6. Schedule and Budget: Provide as a separate attachment, if needed. Clearly indicate project phase: Feasibility (F), Design (D), Construction (C), or Monitoring (M). Include the year of post-construction monitoring in the description.

• **Cost Reimbursement:** Specify eligible costs incurred during the three years prior to the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed (this includes fiscal years 22/23, 23/24, and 24/25). Eligible costs will be added to the current funding request.

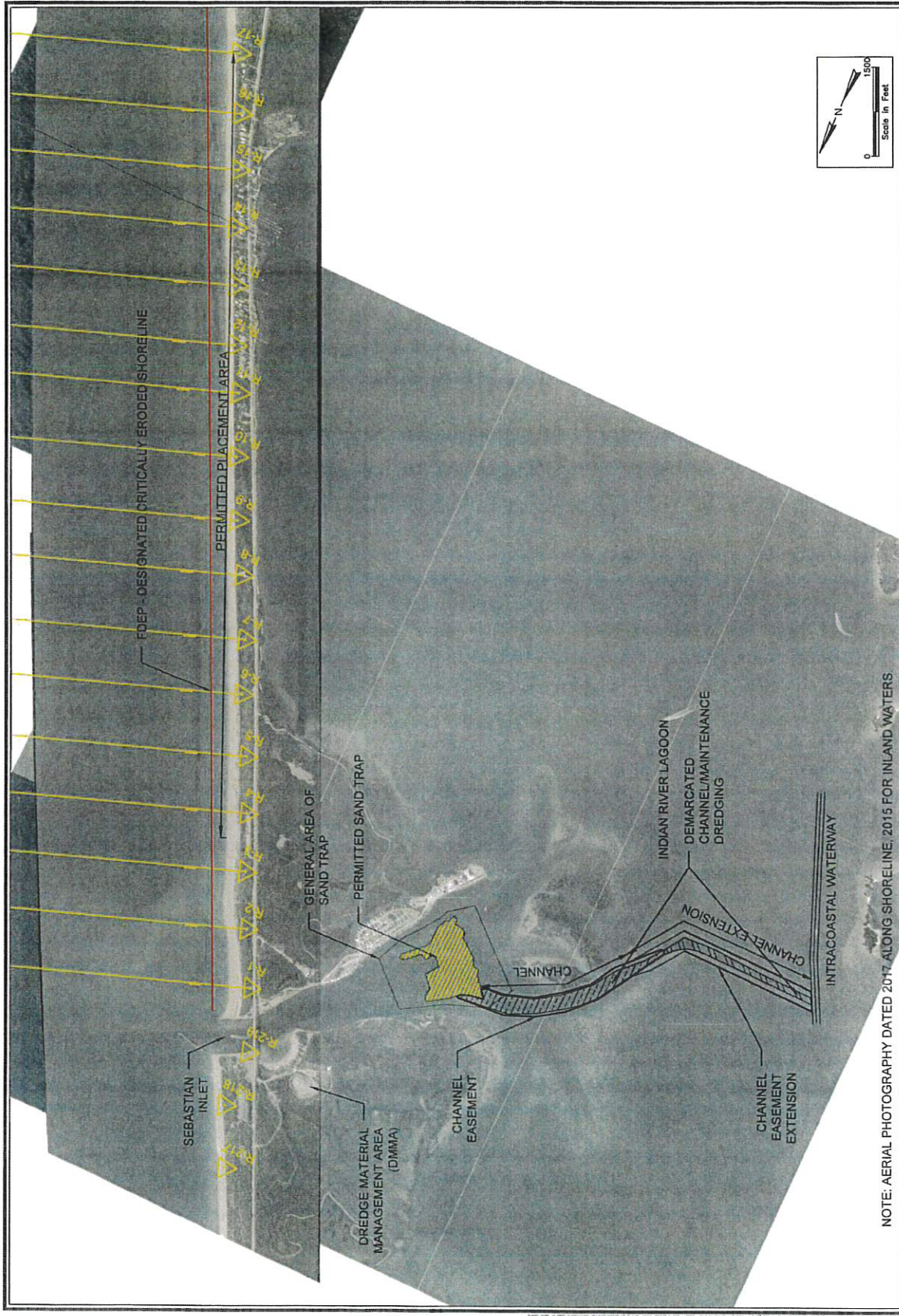
• **Current and Future Costs:** Specify eligible costs for the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed as well as the estimated costs for the next 4 years. Note: If Construction costs are requested in the current fiscal year, then the Year 1 Post-Construction Monitoring costs will be added to the current funding request.

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
22/23		N/A				
22/23						
22/23						
23/24		N/A				
23/24						
23/24						



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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
24/25		N/A				
24/25						
24/25						
25/26		Please see attached for additional information				
25/26						
25/26						
26/27						
26/27						
26/27						
27/28						
27/28						
27/28						
28/29						
28/29						
28/29						
29/30						
29/30						
29/30						



NOTE: AERIAL PHOTOGRAPHY DATED 2017 ALONG SHORELINE, 2015 FOR INLAND WATERS.

Additional Documentation LGFR FY 25/26 - Sebastian Inlet District
Question 6 - Schedule and Budget

Year	Phase	Description	State %	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
25/26	Monitoring	Physical - Year 1	50%	\$50,000	\$0	\$25,000	\$25,000
		Biological					
		Sea Turtle - Year 1	50%	\$135,000	\$0	\$67,500	\$67,500
		Hardbottom - Year 1	50%	\$135,000	\$0	\$67,500	\$67,500
		Sea Grass - Year 1	50%	\$45,000	\$0	\$45,000	\$22,500
25/26	IMP Monitoring	IMP Implementation Strategy 1	50%	\$65,000	\$0	\$32,500	\$32,500
25/26	Sup Bypass (R-11-R-17)	Upland Truck Haul	50%	\$4,000,000	\$0	\$2,000,000	\$2,000,000
	Engineering	Bidding/Const. Managt.	50%	\$150,000	\$0	\$75,000	\$75,000
26/27	Monitoring	Physical -	50%	\$55,000	\$0	\$27,500	\$27,500
		Biological					
		Sea Turtle	50%	\$140,000	\$0	\$70,000	\$70,000
		Hardbottom	50%	\$140,000	\$0	\$70,000	\$70,000
		Sea Grass	50%	\$50,000	\$0	\$25,000	\$25,000
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27/28	Monitoring	Physical	50%	\$60,000	\$0	\$30,000	\$30,000
		Biological					
		Sea Turtle	50%	\$145,000	\$0	\$72,500	\$72,500
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	Engineering	Bidding/Const. Managt.	50%	\$150,000	\$0	\$75,000	\$75,000

Additional Documentation LGFR FY 25/26 - Sebastian Inlet District
Question 6 - Schedule and Budget (cont.)

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28/29	Monitoring	Physical	50%	\$65,000	\$0	\$32,500	\$32,500
		Biological					
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29/30	IMP Monitoring	IMP Implementation Strategy 1	50%	\$80,000	\$0	\$40,000	\$40,000
29/30	Construction (R-3.5-R-11)	Bypass - Mob, Dredging	50%	\$2,000,000	\$0	\$1,000,000	\$1,000,000
29/30	Construction (R-3.5-R-11)	Sand Placement	100%	\$5,500,000	\$0	\$2,750,000	\$2,750,000
	Engineering	Bidding/Const. Managt.	50%	\$175,000	\$0	\$87,500	\$87,500



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7. Sand reaching the inlet

Provide the estimated annual quantity (cubic yards) of beach quality sand reaching the updrift boundary of the improved jetty or inlet channel:

127,749 cy (FDEP 2023)

8. Severity of erosion

Provide the annual bypassing objective (cubic yards/year) adopted by the IMP or SBMP or as determined by a Department-approved study:

90 kcy/yr(08-22); 75 kcy/yr(2023)

9. Balancing the sediment budget

Provide the current annual average of bypassed material (cubic yards) since the adoption of a bypass objective:

53,410 cy

Provide a brief description of when the last sediment budget engineering analysis was completed for the inlet and area of inlet influence. Discuss any proposals to update the sediment budget.

Each year the District completes a State of Sebastian Inlet report. The annual reports includes five major areas of review: 1) an update of the analysis of volume contained in the sand reservoirs of the inlet system, 2) analysis of morphologic changes within the inlet system, 3) analysis of the sand budget based on the results of the sand volume analysis, 4) an update of the shoreline change analysis, and 5) numerical modeling analysis of hurricane impacts and infilling patterns of the sand trap. The volumetric analysis includes the major sand reservoirs within the immediate inlet system and sand volumes within the extended sand budget cells to the north and south of Sebastian Inlet. Annual volume analysis for each inlet sand reservoir extends over a 16-year period between 2006 to 2023. The 2024 State of the Inlet Report is underway.

March 2023, FDEP also completed a Technical Memorandum on the Sebastian Inlet Sediment Budget (FDEP 2023).



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Historical bypassing volumes: In the table below, provide the annual bypassing volumes (cubic yards/year), for the previous ten years (from the last calendar year or the most recent calculation). Attach additional documentation as needed.

Year	Quantity Bypassed (cy) - Sand Transfer Plant	Quantity Bypassed (cy) - Dredging	Dredge Location	Placement or Disposal Area
2012				
2013				
2014				
2015			Please see the attached for additional information	
2016				
2017				
2018				
2019				
2020				
2021				
2022				
2023				
Total per method				

Total bypass volume:

Years since IMP adoption:

Annual average bypass:

Bypass objective:

Percentage of bypass objective:

Sebastian Inlet District

Question 9: Balancing the Sediment Budget 2008-2023 (IRC R-1 - R-40)

LGFR FY 25/26

Year	Quantity Bypassed (CY)	Source of Beach Compatible Material	Placement or Disposal Area
1999/2000			Original IMP Adopted
2008/2009			FDEP - Updated Sediment Bypass Objective
2009/2010			
* 2010/2011	298,850	Approved Upland Sand Mine	IRCo Sector 3 - SID Partner R-20 - R-40
2011/2012	119,900	Sand Trap	R-6 to R-17
2012/2013			
2013/2014	34,600	DMMA + Approved Upland Sand Mine	R-6 to R-17
2014/2015	111,200	Sand Trap	R-6 to R-17
2015/2016	55,800	DMMA + Approved Upland Sand Mine	R-6 to R-17
2016/2017			
2017/2018	30,700	DMMA	R-6 to R-17
2018/2019	113,570	Sand Trap	R-10 to R-17
2019/2020			R-10 to R-17
2020/2021	59,925	DMMA	R-10 to R-17
2021/2022			
2022/2023	30,019	Approved Upland Sand Mine	R-10 to R-17
2023/2024			
Total Bypass Volume (CY)	854,564		
Years since IMP adoption	16		
Annual average bypass (2008-2024)	53,410		
Bypass Objective 2008-2023 (90,000 CY/Yr)	1,350,000		
**Bypass Objective 2024 (75,000 CY/Yr)	75,000		
Percentage of Bypass Objective	59.97%		

* SID funded IRC Sector 3 Beach Nourishment - ILA (2010/2011)

** FDEP Updated Sebastian IMP November 2023



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10. Increased bypassing and cost-effectiveness

Provide the estimated increase in annual bypassing of sand (cubic yards/year) proposed for the project:

No increase in annual bypassing is proposed

Provide the estimated shortfall of annual bypassing of sand (cubic yards/year) within the inlet system:

None

Is the proposed project requesting construction phase funds for a major inlet management project component? No

If yes, and for the award of points for the cost-effectiveness of using inlet sand criteria, provide an opinion of probable cost per unit volume of the inlet and all other sand sources, certified by a licensed professional engineer.

11. Inlet Management Plans

Select all that apply:

- ☒ **Existing IMP:** The proposed project has an existing IMP or completed Inlet Management Study that has been approved by the Department.
- ☒ **Updated IMP:** The Department has received and approved an update to an existing IMP in the form of a current Inlet Management Study/sediment budget analysis within the previous five years, or there is an update proposed to an existing IMP in the current application.
- ☐ **New IMP:** A new inlet management study is proposed for submission to the Department for an adoption in an IMP.

12. Enhanced longevity of proximate beach nourishment projects

Annualized beach nourishment volume of proximate beach nourishment project:

76.23%

13. Active permits

Does the project have an active state permit? Yes

Permit number: 0270746-006-JC

Authorization date: October 1, 2013

Expiration date: October 1, 2028

Does the project have an active federal permit? Yes

Permit number: SAJ-1992-01224

Authorization date: December 28, 2023

Expiration date: December 28, 2033



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14. Federal funds available

Does the proposed project have federal funds available? If so, provide supporting documentation.

No

15. Secured local funds

Has the necessary local funding been secured for the proposed project? If so, provide a copy of the draft Resolution. The signed Resolution is due by September 23, 2024.

Yes

Additional
comments

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RESOLUTION NO. 07.10.24.02

A RESOLUTION OF THE BOARD OF COMMISSIONERS OF
THE SEBASTIAN INLET DISTRICT, SUPPORTING PROPOSED SEBASTIAN
INLET SAND TRANSFER AND MONITORING PROJECTS AND COOPERATION
WITH FLORIDA'S BEACH MANAGEMENT PROGRAM

BE IT HEREBY RESOLVED that the Board of Commissioners of the Sebastian Inlet District supports proposed Sebastian Inlet jetty maintenance projects, sand transfer projects, including dredging of the Inlet Sand Trap and channel, and post-construction monitoring, and providing local cost-share for a cooperative agreement with Florida's Beach Management Program.

BE IT ALSO RESOLVED that the Board of Commissioners of the Sebastian Inlet District authorizes Executive Director, James Gray, Jr. to apply to the Florida Department of Environmental Protection for cost-sharing for the fiscal year 2025-2026.

THIS RESOLUTION shall become effective on July 10, 2024.

Upon motion by Commissioner MITCHELL and second by Commissioner FRAZIER, the Board approved the Resolution as follows:

Lisa Frazier	<u>aye</u>
David Barney	<u>aye</u>
Beth Mitchell	<u>aye</u>
Jenny Lawton Seal	<u>aye</u>
Michael Rowland	<u>aye</u>

The Chair thereupon declared the resolution duly passed and adopted this 10th day of July 2024.

SEBASTIAN INLET DISTRICT

By: Jenny Lawton Seal
Jenny Lawton Seal, Chairman

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

By: Shawn L. Demers
Attorney for Sebastian Inlet District