

RESOLUTION NO. 20-206

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, APPROVING SUPPORT FOR FUNDING REQUEST FOR BEACH MANAGEMENT BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR SMATHERS BEACH SAND NOURISHMENT AND MONITORING UPON CONSENT OF THE CITY ATTORNEY; PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, in Resolution No. 20-039, the City Commission approved a three-year contract with Atkins North America, Inc. for Environmental Engineering Services; and

WHEREAS, Smathers Beach was nourished with 20,000 tons of sand in May, 2019, and monitoring is required pursuant to the Biological Monitoring Plan approved by Florida Keys National Marine Sanctuary Staff; and

WHEREAS, Staff has submitted a Funding Request for the Fiscal Year 2021/2022 Beach Management Funding Application Program.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, AS FOLLOWS:

Section 1: That The City Of Key West Supports preserving Florida Beaches and the Application to Florida Department of Environmental Protection Beach Management Funding Assistance is hereby approved.

Section 2: That the City Manager is authorized to execute necessary documents, upon consent of the City Attorney.

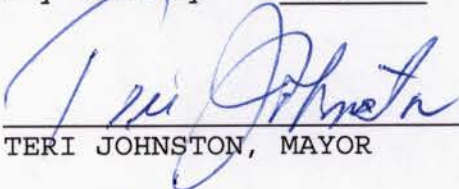
Section 3: That this Resolution shall go into effect immediately upon its passage and adoption and authentication by the signature of the Presiding Officer and the Clerk of the Commission.

Passed and adopted by the City Commission at a meeting held this 20th day of October, 2020.

Authenticated by the Presiding Officer and Clerk of the Commission on 23rd day of October, 2020.

Filed with the Clerk on October 23, 2020.

Mayor Teri Johnston	<u>Yes</u>
Vice Mayor Sam Kaufman	<u>Yes</u>
Commissioner Gregory Davila	<u>Absent</u>
Commissioner Mary Lou Hoover	<u>Yes</u>
Commissioner Clayton Lopez	<u>Yes</u>
Commissioner Billy Wardlow	<u>Absent</u>
Commissioner Jimmy Weekley	<u>Yes</u>


TERI JOHNSTON, MAYOR

ATTEST:


CHERYL SMITH, CITY CLERK



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

EXECUTIVE SUMMARY

Date: October 20, 2020

To: Gregory W. Veliz, City Manager

From: Johnnie Yongue, P.E., Project Manager

Cc: Mark Finigan, Finance Director
Steve McAlearney, Engineering Director

Subject: Florida Department of Environmental Protection (FDEP) Beach Management Funding Assistance for Beach Maintenance and Monitoring.

Action Statement

Approve a resolution supporting an application to the FDEP Beach Management Funding Assistance Program for reimbursement of Smathers, South, Simonton and Dog Beach maintenance and monitoring costs.

Background

In May of 2019, the City nourished Smathers, South, Simonton and Dog beaches at a cost of \$1.2 million. Although nourishment is complete, these beaches remain on FDEP's Critically Eroded Beaches Report and are eligible for funding from FDEP's Beach Management Funding Assistance Program. The program provides and manages grants to local governments for planning and implementing beach and inlet management projects along designated critically eroded beaches.

Many of the designated critically eroded beaches have been restored through the placement of beach and dune fill material. The shorelines where these beach restoration projects have taken place have improved compared to their pre-project condition when they were designated as being critically eroded.

Sand placement may result in reduced seagrass volumes. Per Florida Keys National Marine Sanctuary requirements, the City must monitor beach erosion and seagrass bed condition for a period of five years post project, which is an eligible expense for beach management funding. Since the design and completion of the 2019 nourishment totaling \$1.4 million, the City has spent \$190,000 on monitoring with an anticipated cost of \$152,000 in the coming years. In September 2020, City staff submitted a grant application to FDEP for 50% reimbursement of the \$1.7 million in beach maintenance and monitoring costs.

Purpose and Justification

Although these beach management projects and their subsequent maintenance have mitigated the original critical erosion conditions, these shorelines retain their critical erosion designation in order to retain their state of Florida funding eligibility for long term management and beach project maintenance and monitoring.

The project supported the Key West Strategic Plan, *Environment*, goal #1 “*A natural environment that enhances the ‘Key West experience’ for residents and visitors alike.*”

Financial Issues

If awarded, the grant could provide the City over \$800,000 in reimbursement for costs associated with the 2019 nourishment, allowing the City to be reimbursed for design, placement of sand and past monitoring costs as well as future monitoring costs saving the City 50% of the costs.

Recommendation

Staff recommends approving a resolution supporting a City application to the FDEP Beach Management Funding Assistance Program for reimbursement of beach maintenance and monitoring costs.



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FY 2021/22 Local Government Funding Request
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PART I: GENERAL INFORMATION

Local Sponsor

Local Sponsor Federal ID Number (FEID)

Contact Name Title

Mailing Address Line 1

Mailing Address Line 2

City Zip Code Telephone Number

Email Address

Additional Contact Information

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 Digitally signed by Johnnie Yongue PE
DN: cn=Johnnie Yongue PE, ou=City of Key West, ou=Engineering,
email=jyongue@cityofkeywest-fl.gov, c=US
Date: 2020.08.14 10:56:04 -0400

Electronic or scanned signatures accepted.

Printed Name

Date



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PART III: EVALUATION CRITERIA

1. Project Name: (as listed in the Strategic Beach Management Plan)

Smathers Beach Biological/Physical Monitoring FY 21/22

2. Project Description: Include county, location with reference to FDEP range monuments, brief project history, and description of proposed activities. (Note: The box will expand as needed. To expand for printing purposes, click anywhere outside the box when complete.)

This Grant Request is for reimbursement for Nourishment of Smathers beach in Key West, Monroe County which took place in May of 2019. In May of 2019 the City of Key West placed 20,760 tons of sand on Simonton, Smathers, South and Dog beaches. All of which having been deemed critically eroded. The last nourishment of Smathers beach took place in 2013. Smathers beach is located at the limits of FDEP R Monument V-412, nourishment activities took place across the entire length of the 3,000 foot shore line. Nourishment included placement of sand below the waterline and reconstruction of dunes lost in major storm events including Hurricane Irma (Sept. 9, 2017). All nourishment activities adhered to the FDEP and ACOE permits issued in 2013, and 2017 respectively.

The City continues to provide annual Biological and Physical monitoring at Smathers beach following the nourishment that took place in May 2019. Upon the date of the six month monitoring event COVID 19 forced the Florida Keys and Monroe County to close to visitors, travel restrictions were also placed by the Governor, whereas the consultant performing monitoring services was allowed to travel across Florida and into Monroe County to adhere to permit requirements, consultant asked the City for a delay due to COVID restrictions and fear of travel and exposure during a time of emergency. Six month monitoring was delayed but continued to take place in May 2020 when travel restrictions were lifted and the County opened up to non-residents. This would not be the end of the Citys problems, the COVID shutdown resulted in lost revenue for the City, and caused significant budget adjustments for the fiscal year 2021 starting in October.

The City of Key Wests approved monitoring plan provides annual engineering surveys of beach line and berm locations along the critically eroded beach. Provide seagrass monitoring along Smathers beach as a part of Permit Compliance monitoring. Conduct field assessment to locate, delineate and characterize existing benthic resources (e.g., seagrasses, sand bottom, hardbottom, corals, etc.) within the benthic survey areas at Smathers Beach. Observe and measure changes to the nearshore habitats in the marine survey area that may be directly or indirectly related to berm replacement and erosion following beach sand placement and an updated benthic resource map for use in future beach nourishment biological monitoring. This updated map will ensure proper reporting of possible impacts to the resources in the nearshore environment from any proposed sand placement. Knowledge of the existing resources can be used to determine the potential for impacts from construction and the potential for compensatory mitigation.



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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, and/or Monitoring). Indicate which tasks are cost reimbursement, if the work has already been completed.

In May and June of 2019 The City of Key West performed a nourishment of Smathers, South, Dog, and Simonton Beaches as per the design by Atkins of North America completed in October of 2017. Fiscal year 2021 biological and physical monitoring event, survey and report to be conducted during the seagrass growing season before September 30, 2021 at Smathers Beach only, followed by a second annual Biological and physical monitoring event, survey, and report in seagrass growing season before September 30 2022.

4. Map: Provide as an attachment. The map(s) of the project area must be formatted at a minimum of 1" = 200' scale.

Map elements must include:

- Compass rose with North arrow, scale, and legend.
- Project boundary, including the length of critically eroded shoreline
- FDEP range monuments
- Beach access: indicate primary or secondary access, and include the access width, number and location of parking spaces, bus stops, bike racks, and public restroom facilities
- Public lodging establishments: include the width fronting the project shoreline (for recreational benefits ranking points and eligibility determination), and include the length of street-side frontage within one-quarter mile walking distance of a secondary public access point (for eligibility determination)
- Comprehensive list of current land use designations of properties along the project shoreline (for recreational benefits ranking points)
- Include one-quarter mile buffer and provide a comprehensive list of the values of properties that are enclosed or intersected by the buffer (for value of upland property ranking points)

5. Project length: Total restored project length (in feet) of the critically eroded area (as listed in the Strategic Beach Management Plan).

3,000 Feet



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7. Schedule and Budget:

- Cost Reimbursement: Specify eligible costs incurred during the three years prior to the current application's fiscal year that have not been reimbursed. Eligible costs will be included in the funding request for the current application.
- 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. Include the estimated costs for the next 5 years and the proposed phases for the next 10 years.

Year	Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
18/19						
18/19	Construction	20,000 Cubic Yards of Sand Nourishment and Dune Construction along Smathers Beach, Dog Beach, South Beach, and Simonton Beach in Key West	\$1,236,160	0	\$618,080	\$618,080
18/19	Monitoring	During and Post Construction Biological/Physical Monitoring	\$182,328	0	\$91,163	\$91,163
18/19						
18/19						
18/19						
18/19						
Year	Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
19/20	Monitoring	Annual Biological and Physical Monitoring	\$94,963.00	0	\$47,481	\$47,482
19/20						
19/20						
19/20						
19/20						
19/20						
19/20						
Year	Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
20/21	Monitoring	First Annual Biological and Physical Monitoring	\$76,000	0	\$38,000	\$38,000
20/21						
20/21						
20/21						
20/21						
20/21						



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Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
24/25	Monitoring	Fifth Year Annual Biological and Physical Monitoring	\$76,000	0	0	\$76,000
24/25						
24/25						
24/25						
24/25						
24/25						
24/25						
Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
25/26	Design	Design of Dune Replacement and Waterline nourishment along entire 3,000 Lft of Smathers Beach	\$300,000	0.00	0.00	\$300,000
25/26	Construction	Proposed Placement of 20,000CY of sand on Smathers beach	\$1,500,000	0.00	0.00	\$1,500,000
25/26	CEI Services	Monitoring of Nourishment Activities and Final Survey	\$50,000	0.00	0.00	\$50,000
25/26	Post Construction	Post Construction Monitoring	\$76,000	0.00	0.00	\$76,000
25/26						
25/26						
25/26						
Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
26/27	Six month	Six Month Biological Monitoring event	\$76,000	0.00	0.00	\$76,000
26/27	First Year Monitoring	First Annual Physical and Biological Monitoring Event one year following Dune Replacement and Nourishment	\$76,000	0.00	0.00	\$76,000
26/27						
26/27						
26/27						
26/27						
26/27						



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Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
27/28	Second Year Monitoring	Second year Annual post construction monitoring	\$76,000	0	0	\$76,000
27/28						
27/28						
27/28						
27/28						
27/28						
27/28						
27/28						
Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
28/29	Third Year Annual Monitoring	Third Year Annual Post Construction Biological and Physical monitoring	\$76,000	0	0	\$76,000
28/29						
28/29						
28/29						
28/29						
28/29						
28/29						
Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
29/30	Fourth Year Monitoring	Fourth Year Post Construction Annual Biological and Physical Monitoring	\$76,000	0.00	0.00	\$76,000
29/30						
29/30						
29/30						
29/30						
29/30						
29/30						



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Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
30/31	Fifth Year Monitoring	Fifth Year Post Construction Annual Biological and Physical Monitoring	\$76,000	0.00	0.00	\$76,000
30/31						
30/31						
30/31						
30/31						
30/31						
30/31						

8. Tourism-related impacts: Criteria is calculated by the Department. For reference, tax data can be obtained from the Department of Revenue website: https://floridarevenue.com/taxes/pages/colls_from_7_2003.aspx.

- Current funding request includes construction and year one post-construction monitoring
- Project is managed by two or more counties

Additional comments

9. Federal involvement: The documentation to verify authorization, federal cost share percentage, and status of funding award must be provided with the application materials for the award of points.

Is the project Federally authorized by the USACE?

Authorization Year: Expiration Year:

Does this project have a signed USACE Chief's report for authorization of the requested phase?

USACE federal cost share percentage for this project (excluding FCCE):

Select all that apply for the requested project phase(s):

- Executed USACE project agreement
- Included in USACE work plan
- Approved FEMA Project Worksheet
- Included in Congressional Appropriations Act



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Other documentation:

10. Storm damage reduction benefits: Criteria is calculated by the Department.

What is the volume (cy) of advanced nourishment lost since the last sand placement event of a beach restoration or nourishment project as measured above the Mean High Water contour? Data should be consistent with the annual post-construction monitoring reports.

For restoration projects, what is the historical erosion rate?

11. Cost effectiveness: Criteria is calculated by the Department. A project design analysis and supporting documentation must be provided with the application materials for the award of points.

What is the proposed sand placement volume (cy)?

What is the nourishment interval (years)?

Select all that apply for the current project funding request:

- Enhanced longevity: Propose structural or design components that could extend the beach nourishment interval
- Dune addition: Incorporate new or enhanced dune structures or new or existing dune restoration and revegetation projects
- Innovative technology: Propose innovative technologies designed to reduce project costs
- Regionalization: Two or more local sponsors manage projects together or projects propose regional sediment management strategies to conserve sand resources or reduce project costs

Additional comments for storm damage reduction benefits and cost effectiveness

12. Previous state commitment

Has the Department previously reviewed, approved, and cost-shared on a feasibility or design phase for this project?

Has the current proposed project phase(s) received a partial appropriation within 3 years of phase completion?

Additional comments



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13. Accessible beach area: Criteria is calculated by the Department. Provide data to be considered for the calculation.

Describe the landward and seaward edge of the accessible beach width

3000

Provide the project boundaries (R-monuments)

V-412

Provide citations of reference sources

https://geodata.dep.state.fl.us/datasets/33f95056912b4364acd1ded1ae153fd3_10?geometry=-81.795%2C24.552%2C-81.754%2C24.559

14. Recreational benefits: Provide the percentage of linear footage within the project boundaries which is zoned recreational or open space; for commercial use; or to allow for public lodging establishment, or the equivalent.

3000 feet

15. Mitigation of inlet effects: Criteria is calculated by the Department.

Additional comments

16. Successive unfunded requests

Is the current proposed project phase(s) a successive, unfunded request? If so, how many years of successive request(s) is the current application?

Does the successive request add the construction phase?

No

17. Environmental habitat enhancement: Criteria is calculated by the Department.

Is the project within a designated critical habitat area for threatened or endangered species that is subject to extensive shoreline armoring?

No

Is the project within a non-designated area where extensive shoreline armoring threatens the habitat of threatened or endangered species?

Yes

If yes to either of the above, does the project exceed best management practices to incorporate turtle-friendly designs and management strategies to protect resources or benefit critical habitat preservation?

No

Provide an explanation and

Project does not include Strategies that exceed best management practices.



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supporting documentation
for the strategies which
exceed best management
practices

18. Readiness to construct

Does the project have an active state permit?

Does the project have an active federal permit?

Permit number

Permit number

Authorization date

Authorization date

Expiration date

Expiration date

Have all necessary easements been acquired for the upcoming or proposed construction phase?

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 November 20, 2020.

Is an Erosion Control Line established along the project length?

Additional
comments

Provide additional information and comments below or attach separate documents.



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A large, empty rectangular box with a black border, intended for the applicant to provide details for their beach projects.



Figure 1. Project area map

**Smathers Beach Renourishment Project
Pre-Construction Nearshore Biological Assessment**

Smathers Beach
Key West
Monroe County
Florida



Prepared By: ATKINS N.A. Ecological Sciences

1 Inch = 200 feet

Date: August 27, 2018



— Transect Locations