

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: R1930**

ATTACHMENT 3

Project Title: Marina Boat Ramp Resiliency Improvements

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PROJECT LOCATION: 700 Polk Street, Hollywood FL 33019
Coordinates 26 00'51.3" N, 80 07'17.4" W

WORK PLAN

1. **Project Summary:** Obtain all necessary permits and complete construction of improvements at the City's marina boat ramp. This year's project will consist of raising the top of boat ramp to elevation approximately 4.5' NAVD, including approach, driveway and launch area, and some seawalls to prevent repeated high tide breaches into the adjacent roadway.
2. **Project Description:** The purpose of these improvements are to raise the top of the boat ramp and some associated seawalls to an approximate elevation of 4.5' NAVD, which is equal to approximately 5.591' NGVD. Construction will include removal of existing asphalt pavement and base and access driveways, regrading the area as required and placing new drainage structures base and asphalt to the proposed elevation, an average increase of 2'

Some of the existing seawalls will receive a cap and where needed new retaining walls will be installed; both to the required elevation(s). The existing concrete boat ramps will be extended to match the new seawall location. The boat ramp approach driveways will be appropriately raised with new landscape in areas between the ramps.

3. Project Need and Benefit

a. Explain the demonstrated need, which the project addresses:

The Hollywood Marina, located at 700 Polk Street, offers residents and visitors use of public launch facilities providing direct access to the Intracoastal Waterway. . The marina property is located across the street from residential properties and is heavily used as a local launching site, to the east of the boat launch area is a 55 in-water slip marina and fueling pier managed by the City. The boat launch ramps are less than 900 feet west of the Intracoastal Waterway. The marina rental slips average 79% occupancy year around with full occupancy during the winter months. The fueling pier is another boating draw with competitive rates and heavy weekend traffic.

In the past, extensive flooding has occurred at the boat ramp facility, especially during King Tides with ocean water from the bay flowing up onto the adjacent roadway and into local drainage systems causing regular and reoccurring flooding in the immediate area.

b. Explain how the proposed project meets the purpose of one or more of the Goals and/or Priority Areas.

The City's Marina Project is compatible with the purpose of the below Goals and/or Priority area.

Priority Area 1

Compliance with "Peril of Flood" statute (Sec. 163.3178(2)(f) F.S.) for communities with a Coastal Management Element in their comprehensive plan.

Coastal communities with a Coastal Management Element in their comprehensive plan can receive assistance in gaining compliance with the 2015 "Peril of Flood" requirements of Sec. 163.3178(2)(f) F.S. Applicants must propose a robust process using relevant and

appropriate data, mapping and public outreach that will be acceptable for compliance with the statute.

Priority Area 3

Vulnerability Assessments, Adaptation Plans or Resilience Plans other than that necessary for compliance with Peril of Flood requirements.

Communities that have already complied with the 2015 Peril of Flood statute can receive assistance for continuing resiliency planning. Vulnerability Assessments (VAs) consist of measuring the impact of sea level rise on a community and identifying the people, infrastructure, and land uses that may be affected. Adaptation plans use the outputs from a vulnerability assessment to identify potential actions to address the vulnerabilities found. Resilience plans are variations on adaptation plans. Best practices for vulnerability assessments and adaptation plans can be found in the Florida Adaptation Planning Guidebook (2018), which is available on the Florida Resilient Coastlines Program website: <https://floridadep.gov/resilience>. Outputs should include products such as maps showing at least two sea level rise scenarios in conjunction with high tide events, storm surge, flash floods, and stormwater runoff; notes from at least two public meetings, websites, story maps, and the finished assessments and/or plans.

The City's Marina Project is in-tune with the Goals and/or Priority areas by making immediate visible improvements to the environment. Improving the marina provides direct hardening of an area that is regularly affected by flooding. In 2016 the City adopted a Marina Waterway Master Plan. This plan specifically identifies improving seawalls, as well as enhancing the City marina (<http://www.hollywoodfl.org/771/Marine-Waterway-Master-Plan>). Additionally, the City is in the midst of doing a Citywide Vulnerability Assessment and the initial stages of updating our Comprehensive Plan.

Through a competitive process, in 2018 the City selected Hazen and Sawyer (Resolution-2018-257) to complete a Citywide Vulnerability Assessment and Adaption Plan (Plan). The Plan, which is underway, will at minimum include Projected Impacts Documentation that illustrates scenarios and projections for, at a minimum, climate-related impacts such as sea level rise, storm surge, extreme heat events, extreme precipitation events and inland flooding (Using FEMA flood maps). This will be achieved by conducting a city-wide climate change vulnerability assessment, prioritization of vulnerabilities, development of adaptation strategies, creation of a preliminary adaptation plan, informing the public about risks and adaptation opportunities and building the capacity of the city to include climate change data in decision making.

Recently Broward County amended their Comprehensive Plan (Broward Next). In response to that several Broward County cities are now updating their Plans. The City's 2008 adopted Comprehensive Plan includes a Coastal Element. The City will be competitively selecting a consultant this summer to complete an update of the City Comprehensive Plan next year.

c. Discuss how the project is feasible and can be completed by the Deadline of April 30, 2020.

The City's marina project is feasible to be completed by April 30, 2020. The marina is existing, thus only needing some modifications to minimize neighborhood flooding and breaching of the drainage system. Additionally, phase one of the project is underway

with construction drawings being completed, permits from several entities have already been applied for with some issued and project costs are being finalized in the market.

4. **Budget Summary:** Allowable budget categories and costs for this project are listed in the table below.

FIXED PRICE	Grant Amount Requested
AGREEMENT TOTAL	\$ 324,050

- A. **Provide an explanation on what methods were used to determine the amount you are requesting:**

The cost is based on the Guaranteed Maximum Price (GMP) estimate. The GMP estimate was performed by a general contractor and includes a full construction cost breakdown of items such as, demolition, earthwork, sedimentation control, pavement, drainage, landscape, etc.

The City has already committed funding (R-2018-347) and will supplement the differential of the fixed grant with additional funds, as necessary.

SUPPLEMENTED FUNDS

	Task 1	Task 2	TOTAL
Grantee Applied Funds	\$61,212	\$710,926	\$772,138

5. **Project Timeline:** All tasks are to be completed and submitted no later than the Deliverable due date listed in the table below. Request for any change must be submitted prior to the current deliverable due date listed in the project timeline. Request are to be sent via separate email to the Department's Grant Manager, with the details of the request being made and the reason for the request.

PROJECT TIMELINE

Task No.	Task Title	Deliverable Due Date	Task Amount
1	Site Preparation	01/01/2020	\$50,000
2	Completion of Site Construction	04/30/2020	\$274,050

6. **Performance Measure:** The Department's Grant Manager will review the deliverables to verify that they meet the specifications in the Grant Work Plan and this task description, to include any work being performed by any sub-contractor(s). Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal. All deliverable documents must be provided in an electronic downloadable format.
7. **Consequences for Non-Performance:** The Department will reduce each Task Funding Amount by 5% for every day that the Deliverable(s) is not received on the specified due date in the most recent Project Timeline, for the Agreement. Should a Change Order or Amendment be requested on the date of or after the most current Deliverable Due Date, the 5% reduction of that Task

Funding Amount will be imposed until the date of the requested change is received, via email by the Department.

- 8. Payment Request Schedule:** Grantee may submit a request for the Task Funding Amount to be paid using the Exhibit C, after all Deliverables for that Task have been approved by the Department. Request(s) for payment must include the Exhibit A showing 100% completion of that Task and must be submitted within 45 days of the Deliverable Due Date.

Or

Grantee may submit one request for the Grant Amount Awarded, by using the Exhibit C, after the project is 100% completed. The request for the Grant Amount Awarded, must include an Exhibit A showing 100% completion for all Tasks, and must be submitted within 45 days of the Deliverable Due Date.

TASKS & DELIVERABLES

Task # 1

- A. Title:** Commencement of Site Preparation
- B. Description:** Demolish portion of existing marina improvements and prep site for construction by doing initiating necessary earthwork.
- C. Deliverable:** Detailed invoice from consultant/contractor along with five pictures showing progression of improvements that include demolition and commencement of earthwork.

Task # 2

- A. Title:** Substantial Completion of Construction
- B. Description:** Asphalt and concrete will be installed along with landscape.
- C. Deliverable:** Detailed invoice from consultant/contractor along with five pictures showing substantial completion of asphalt, concrete and landscape.