

DEP AGREEMENT NO. **CM742**  
CHANGE ORDER NO. #1

GRANTEE

City of Cape Canaveral  
100 Polk Ave.  
Cape Canaveral, FL 32920

DEP Agreement No. **CM742** was entered into on the 16<sup>th</sup> day of August 2018, and amended via Amendment #1, which was executed on December 27, 2018, is hereby revised as follows:

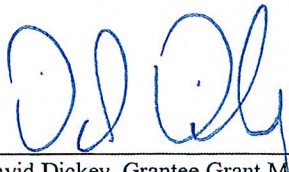
1. **Attachment A, Grant Work Plan, Project Timeline** is hereby deleted in its entirety and replaced with the following:

**Total Project Timeline:**

| Task/<br>Deliverable<br>No. | Task or Deliverable Title                                        | Task Start<br>Date | Task End<br>Date | Deliverable<br>Due Date | Task<br>Amount |
|-----------------------------|------------------------------------------------------------------|--------------------|------------------|-------------------------|----------------|
| 1                           | GIS Database and Story<br>Maps, Public Meetings,<br>Final report | 8/16/18            | 6/15/19          | 6/15/19                 | \$67,000       |

All other terms and conditions of the Agreement shall remain unchanged.

CITY OF CAPE CANAVERAL



David Dickey, Grantee Grant Manager

Date: \_\_\_\_\_

5-8-19

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Angel Baratta, DEP Grant Manager

Date: \_\_\_\_\_

5/8/19

**STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
GRANT WORK PLAN  
DEP AGREEMENT NO.: CM742**

**ATTACHMENT 3**

**Project Title:** Community Based Resiliency in The City of Cape Canaveral

**Grantee**

Organization Name: City of Cape Canaveral  
Chief Elected Official or Agency Head: Bob Hoog  
Title: Mayor  
Address: 100 Polk Ave.  
City: Cape Canaveral  
Zip Code: 32920  
Area Code and Telephone Number: 321-868-1220  
Area Code and Facsimile Machine Telephone Number: 321-868-1247  
E-Mail Address: [b.hoog@cityofcapecanaveral.org](mailto:b.hoog@cityofcapecanaveral.org)

**Project Manager**

Organization Name: City of Cape Canaveral  
Name: David Dickey  
Address: 100 Polk Ave.  
City: Cape Canaveral  
Zip Code: 32920  
Area Code and Telephone Number: (321) 868-1220  
Area Code and Facsimile Machine Telephone Number: 321-868-1247  
E-Mail Address: [d.dickey@cityofcapecanaveral.org](mailto:d.dickey@cityofcapecanaveral.org)

**Fiscal Agent**

Organization Name: City of Cape Canaveral  
Name: John DeLeo  
Address: 100 Polk Ave.  
City: Cape Canaveral  
Zip Code: 32920  
Area Code and Telephone Number: (321) 868-1220  
Area Code and Facsimile Machine Telephone Number: (321) 868-1248  
E-Mail Address: [j.deleo@cityofcapecanaveral.org](mailto:j.deleo@cityofcapecanaveral.org)

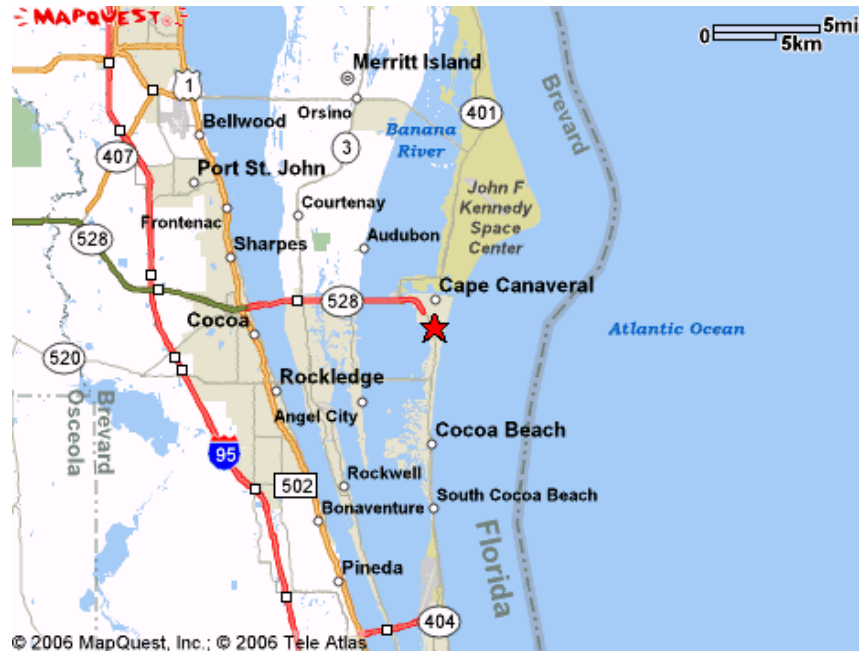
**Mailing Address for Warrant (if other than the Grantee address):**

FEID No.: 59-0974636

DUNS No.: 89939710

**Location:**

This project will take place in the City of Cape Canaveral which is located on a barrier island off the coast of Brevard County, Florida, immediately south of Port Canaveral, one of the world's busiest cruise ports, as well as Kennedy Space Center and Cape Canaveral Air Force Station. It is also located north of Patrick Air Force Base, making the continued resiliency and economic sustainability of Cape Canaveral vital for the workforce to these areas as well as visitors into the Port. The City faces impacts from sea level rise, storm surge and coastal flooding on two fronts as the City is situated with the Atlantic Ocean to the east and the Banana River to the west. SR A1A, a major thoroughfare and evacuation route runs north-south through the City of Cape Canaveral and then turns west to head to the mainland at the northern end of the City. SR 520, another major-east west connector and evacuation route to the barrier island is just south of Cape Canaveral and north of Cocoa Beach. The project will include the collaboration with critical federal and economic assets including Port Canaveral, PAFB and KSC as the continued resiliency and economic sustainability of the City of Cape Canaveral is vital to the workforce of these areas as well as visitors to the Port.



### Project Description:

The City of Cape Canaveral's priorities to educate and engage its residents and businesses in the conversation of resiliency and assess impacts from sea level rise, flooding and surge are the primary goals of this proposal. The East Central Florida Regional Planning Council will work with the City to develop educational visualizations and facilitate engagement opportunities for the community relevant to resiliency and the future of the City. This public engagement and education, combined with an assessment of the City's vulnerabilities, as they relate to ensuring resiliency to hazards and changing climate conditions, will guide the decision-making process for future development, infrastructure projects and various programs within the City. Through this grant, the project team will:

- 1) Conduct a vulnerability analysis and develop GIS Visualizations for public education and engagement as related to sea level rise, frequent or "nuisance" flooding and storm surge;
- 2) Engage the residents and businesses in the City through online survey and public workshops to enhance education on vulnerabilities and obtain input on priorities, policies, and resiliency and adaptation strategies for implementation; and
- 3) Using REMI, Inc., model economic impacts of a "do nothing" scenario for vulnerable areas and compare to a scenario that implements an adaptation measure as determined through the project process.

Community literacy and engagement is important in the City's quest to become more resilient along with understanding vulnerabilities and the capacity that current plans and policies have in planning for and implementing strategies that enhance the community's resiliency and economic sustainability. For this reason, the ECFRPC will focus on increasing climate literacy, assessing capacity and identifying vulnerabilities within the City through dissemination of educational materials, community workshops, on-line survey opportunities, GIS analysis and visualization techniques.

This proposal is timely in that it will provide necessary information and engagement opportunities to enhance the conversation and begin to provide direction and assessment for the City staff and administration. The efforts of this proposal will tie directly into the efforts of the City as they begin the discussion of resiliency and engage critical assets such as KSC, Port Canaveral, PAFB and others.

Through this proposal, the City will conduct at least 2 workshops with stakeholders and staff to discuss vulnerabilities and gather input concerning issues, opportunities, and needs which will be used for inclusion in the MetroQuest parameters. The outcome of the engagement tool will help the City develop strategies, priorities and actions to address resiliency and begin taking actionable steps and develop appropriate policies. The final workshop will provide an overview of the survey results and potential strategies and next steps as well as other pertinent topics that may emerge during the engagement process. Engaging the youth is also important in creating direction for the City. This proposal will develop strategies for engaging the youth in the planning process that can be incorporated through this proposal as well as in future outreach efforts.

The project team, at a minimum, will utilize the UF GeoPlan Sea Level Sketch Planning Tool to determine impacts to the City relative to the various rate curves. The team will assess the rate curves as identified by the city and will include at a minimum the 2013 USACE High curve. With direction and input from the stakeholders, and based on input from the East Central Florida Regional Resiliency Action Plan, it may be deemed necessary to also assess the NOAA 2017 Intermediate High and High rate curves or the 2012 NOAA curves. The team will also utilize other data from NOAA to assess the potential for frequent or “nuisance” flooding as well as modeling from the Tampa Bay Regional Planning Council which evaluates new storm surge impacts as sea levels rise. A vulnerability assessment using these data and parameters will evaluate facilities critical to City function, health and safety, and evacuation support, as well as all roadway facilities, land use and social characteristics to help identify social vulnerabilities to better assist in public services and response. Findings will be compiled into a final report to include tables, charts, maps and text.

Understanding the economic consequences of a “do nothing” scenario and the potential economic impacts of implementing adaptation scenarios is a necessary step in public literacy and also providing information to the City to validate and verify adaptation strategies. The ECFRPC will use the REMI, Inc. Model to assess the economic impacts of losing properties and infrastructure determined to be vulnerable by 2040 and, through the outreach process, work with the City to determine at least one adaptation scenario to analyze through economic modeling in order to assess retained and/or lost revenue and other economic impacts associated with job loss/retention, new land use, and other parameters determined to be appropriate for the strategy.

To truly engage and educate the public about vulnerabilities and to use the information in messaging, visualization of the information in an easy to understand format is important. This is where ESRI’s story maps will be utilized. The project team will create at least one story map to tell the story of the data, analysis, findings and strategies. Additional visualization techniques may also be used.

Finally, using the resiliency portal developed by the ECFRPC and through other grant mechanisms, [www.perilofflood.org](http://www.perilofflood.org), the final reports and links to the story maps will be made available for continued transference to other communities and public education. The City will have the ability to access these online services.

**Total Budget Summary:**

|                        |                  |
|------------------------|------------------|
|                        | <b>Grant</b>     |
| <b>AGREEMENT TOTAL</b> | <b>\$ 67,000</b> |

**TOTAL GRANT FUNDS**

| <b>Categories</b>        | <b>Task 1</b> | <b>TOTAL BY CATEGORY</b> |
|--------------------------|---------------|--------------------------|
| <b>Contractual</b>       | \$67,000      | \$67,000                 |
| <b>SUB-TOTAL BY TASK</b> | \$67,000      | \$67,000                 |

All materials created will include DEP, NOAA, and FCMP logos. A sample or electronic version is required to be sent to [Angel.Baratta@FloridaDEP.gov](mailto:Angel.Baratta@FloridaDEP.gov) or 3900 Commonwealth Blvd, MS 235, Tallahassee, FL 32399-3000, to receive prior approval from the FCMP Administrator. (See paragraph 27(A) of the grant agreement for details.).

**PROJECT TIMELINE:** The tasks must be completed by the corresponding task end date and all deliverables must be received by the designated due date.

| <b>Task</b> | <b>Deliverable</b>                                                                                                                                                                                                                          | <b>Start Date</b> | <b>End Date</b> | <b>Deliverable Due Date</b> |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|-----------------------------|
| 1           | GIS Database and Story Maps                                                                                                                                                                                                                 | 9/1/2018          | 5/1/2019        | 5/15/2019                   |
|             | Public Meetings (agendas, sign ins, presentations, and summaries) and Online Survey Results                                                                                                                                                 |                   |                 |                             |
|             | Final project report to include summary of public engagement process; major findings of engagement including survey summary; recommendations for strategies and policy development; vulnerability assessment, and economic impact analysis. |                   |                 |                             |

**TASKS AND DELIVERABLES**

**Task 1 Description:** Public Engagement and Policy Development: Engage the residents and businesses in the City through online survey and public workshops to enhance education on vulnerabilities and obtain input on priorities, policies and resiliency and adaptation strategies for implementation.

The City will conduct at least 2 workshops with stakeholders and staff to discuss vulnerabilities and gather input concerning issues, opportunities, and needs which will be used for inclusion in the MetroQuest parameters. The final workshop will provide an overview of the survey results and potential strategies and policy language and next steps as well as other pertinent topics that may emerge during the engagement process. Efforts to engage the youth in the planning process will also be documented. The outcome of the engagement tool will help the City to develop proposed strategies, priorities and policies to address resiliency and actionable steps. These will form the core of the presentation at the final workshop.

The project team will conduct a vulnerability assessment to sea level rise, frequent or “nuisance” flooding as well as modeling from the Tampa Bay Regional Planning Council which evaluates new storm surge impacts as sea levels rise. A vulnerability assessment using these data and parameters will evaluate

facilities critical to City function, health and safety, and evacuation support, as well as all roadway facilities, land use and social characteristics to help identify social vulnerabilities to better assist in public services and response. Findings will be compiled into a final report to include tables, charts, maps and text.

The ECFRPC will use the REMI, Inc. Model to assess the economic impacts of losing properties and infrastructure determined to be vulnerable by 2040 and will work with the City to determine at least one adaptation scenario to analyze through economic modeling in order to assess retained and/or lost revenue and other economic impacts associated with job loss/retention, new land use, and other parameters determined to be appropriate for the strategy. Findings will be compiled into a final report to include tables, charts, maps and text.

The project team will create at least one story map to tell the story of the data, analysis, findings and strategies. Additional visualization techniques may also be used in addition to the story map.

**Deliverable:**

Workshop agendas, sign-in sheet, presentations and summaries in pdf format by workshop.

GIS Database

Story Map

Final project report to include summary of public engagement process; major findings of engagement including survey summary; recommendations for strategies and policy development; vulnerability assessment, and economic impact analysis. Appendixes will include full public survey results and other necessary data or information.

Incorporate reports and links to the storymap on the Peril Of Flood website for access across the state.

**Due Date/Frequency/Performance Period:** May 15, 2019

**Performance Measure:** The Department will review the deliverable(s) to ensure it meets the specifications provided in the Task Description, above.

**Funding for Task:**

| Category           | Grant Funds      |
|--------------------|------------------|
| Contractual:       | \$67,000         |
| <b>TASK TOTAL:</b> | <b>\$ 67,000</b> |

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