

**DEP AGREEMENT NO. R1925
CHANGE ORDER NO. 002**

GRANTEE

City of St. Petersburg
1650 3rd Avenue North
St. Petersburg, FL 33713

DEP Agreement No. R1925 as entered into on the 5th day of August 2019, and as amended, is hereby revised as follows:

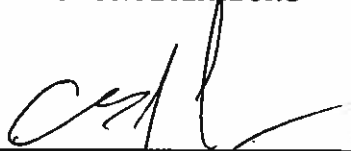
1. Attachment 3, Grant Work Plan, Project Timeline is hereby deleted in its entirety and replaced with the following, due to the Corona Virus Outbreak:

PROJECT TIMELINE

Task No.	Task Title	Deliverable Due Date	Task Amount
1	Project Administration/Kick-off/Location Selection	1/15/2020	\$4,500
2	Topographic Survey	2/2/2020	\$12,000
3	Investigation, Coordination, And Records Review	3/1/2020	\$6,500
4	Preliminary Analysis	3/30/2020	\$10,000
5	Develop Alternative Countermeasures	6/10/2020	\$22,000
6	Report/Plan	6/15/2020	\$12,000
7	Community Meetings	6/30/2020	\$5,000
8	QA/QC	6/30/2020	\$3,000
Total			\$75,000

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

CITY OF ST. PETERSBURG



Carlos Frey, Grantee Grant Manager
Date: 03/18/2020

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Whitney Gray, DEP Grant Manager
Date: _____

DEP AGREEMENT NO. R1925
CHANGE ORDER NO. # 1

GRANTEE

City of St. Petersburg
1650 3rd Ave. N.
St. Petersburg, FL 33713

DEP Agreement No. R1925 as entered into on the 19th day of November 2019, is hereby revised as follows:

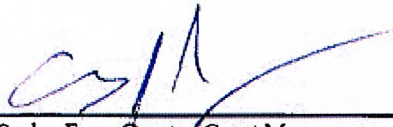
1. Attachment 3, Grant Work Plan, Task 1, Deliverable Due Date, is hereby changed to 01/15/2020.

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

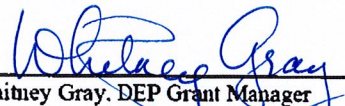
The parties agree to the terms and conditions of this Change Order and have duly authorized their respective representatives to sign it on the dates indicated below.

CITY OF ST. PETERSBURG

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Carlos Frey, Grantee Grant Manager



Whitney Gray, DEP Grant Manager

Date: 12/23/19

Date: 1/2/2020

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: R1925**

ATTACHMENT 3

Project Title: Resilient Stormwater Infrastructure Assessment

Grantee Contact Information:

Organization Name: City of St. Petersburg
Authorized Signer for the Organization: Tom Greene
Title: Assistant City Administrator
Address: P.O. Box 2842
City: St. Petersburg
Zip Code: 33731-2842
Area Code and Telephone Number: 727-893-7032
E-mail Address: Tom.Greene@stpete.org

Grant Manager Contact Information:

Organization Name: City of St. Petersburg
Name: Carlos Frey, Engineering Design Manager
Address: P.O. Box 2842
City: St. Petersburg
Zip Code: 33731-2842
Area Code and Telephone Number: 727-892-5380
E-mail Address: carlos.frey@stpete.org

Fiscal Agent Contact Information:

Organization Name: City of St. Petersburg
Name: Janice MacKinnon, Engineering Special Projects Manager
Address: P.O. Box 2842
City: St. Petersburg
Zip Code: 33731-2842
Area Code and Telephone Number: 727-893-7864
E-mail Address: janice.mackinnon@stpete.org

FEID No.: 59-6000424

PROJECT LOCATION: City of St. Petersburg – Various Watershed Basins

WORK PLAN

- 1. Project Summary:** This project shall develop a resilience plan for watersheds that are at-risk due to future climate predictions, including sea level rise, storm surge flood inundation, and storm events. This plan will collaborate with existing City and County vulnerability assessments and watershed masterplans to evaluate the most effective use of capital resources in adapting to these future threats through infrastructure investment. Through utilizing a community, environmental, and economically value-weighted framework, proposed capital improvements projects may include pump stations, stormwater network expansion, living shoreline development, and resilient infrastructure planning as part of the plan deliverables.

- 2. Project Description:**

The City of St. Petersburg is currently developing infrastructure improvements as well as integrated master plans to address the current and future environmental threats that will impact the community. As part of these initiatives, the City has identified numerous areas of the community that are most at-risk for environmental impacts. As part of the currently on-going Stormwater Management Master Plan Update (SMMP), the City will be provided with capital improvement projects that will address some of these problem areas. However, the broader, city-wide scope of these master plans do not consider highly localized watersheds nor do they provide detailed benefit analysis from a triple-bottom-line perspective.

The proposed Resilient Stormwater Infrastructure Assessment project will provide the City and its residents the additional funding to assess these at-risk areas further, providing the resources to allow detailed cost-benefit analysis across similar communities, identify infrastructure synergies for potential cost reduction, prioritization for capital investments, and further study into implementing resilient strategies for these proposed projects.

This Resiliency Plan will utilize the information currently available from on-going plans and expand upon them. Stakeholder engagement in the community through public meetings and public discourse may be included to aid in areas that may lack adequate data or historic records. The final deliverable of this plan will include project prioritizations, resilient infrastructure strategies for current and future incorporation, and an implementation framework to guide the City through these capital improvement challenges that lay ahead.

- 3. Project Need and Benefit:**

- a. This project is needed due to the numerous low-lying and at-risk neighborhoods identified in the City's SMMP, but lack of a resiliency plan specific to those areas.
- b. This project explicitly delivers this and can address these needs by incorporating the latest assets from current databases and incorporating the City's goals alongside established climate science such as NOAA's global and regional sea level rise scenarios predicted in Technical Report NOS CO-OPS 083.
- c. This project can be accomplished within the timeframe as it will focus on localized watersheds that have already been broadly summarized. Similar reports have been done in the past that have not taken more than 12 months to assemble.

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

FIXED PRICE	Grant Amount Requested
AGREEMENT TOTAL	\$75,000

- A. **Provide an explanation on what methods were used to determine the amount you are requesting:** From a previous neighborhood assessment done, which included approximately 250 man-hours, subconsultant services for topographic survey, QA/QC, Report Deliverables, and community meetings.
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. Requests 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	Project Administration/Kick-off/Location Selection	1/1/2020	\$4,500
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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:** Project Administration/Kick-off/Location Selection
- B. Description:** The City will direct the administration of this project and distribute information as necessary. As part of the administration, the City will procure a consultant to develop and maintain a project schedule that falls within the scope of the one proposed in this application. Once a consultant has been selected, the City and the consultant will work together identifying critical neighborhoods to assess during the kick-off meeting and establish project goals for these locations.
- C. Deliverable:** Sign-in sheets for the meeting, Meeting Minutes, Report listing out the Location Descriptions, and copy of the project timeline developed.

Task # 2

- A. Title:** Topographic Survey
- B. Description:** Though field inventory may exist in the form of LiDAR data or existing information from previous projects, detailed topographic survey may be required along with subsurface utility work. Surveying services to include hydraulic infrastructure such as inlets, outfalls, vaults, and retention basins. The survey information will serve to complete the overall facility assessment.
- C. Deliverable:** CAD drawings of Survey and/or SUE locates

Task # 3

- A. Title:** Investigation, Coordination, and Records Review
- B. Description:** All data associated with the project included but limited to: existing infrastructure locations, historical tidal depths, roadway as-builts, existing drainage infrastructure, seawall locations and elevations, right-of-way information, stormwater basin locations and hydrologic conditions, stormwater atlas sheets, FEMA flood maps, NOAA research. Additionally, GIS and CADD files will be compiled for the study area(s). These maps may include contours, hydrologic information, and environmental data.

- C. **Deliverable:** Copies of GIS and CADD files and maps showing contours, hydraulic information and environmental data, to be supplied in a pdf format where possible.

Task # 4

- A. **Title:** Preliminary Analysis
- B. **Description:** Using the comprehensive information established in the preceding Task #4, the consultant will prepare assessment maps that identify both natural conditions and existing infrastructure. GIS and mapping information will be verified; physical constraints will be identified; and potential impacts and constructability issues will be assessed, among other tasks. Areas of concern within the study area will be ranked based on its need for adaptation to changing tidal conditions. This will assist in establishing a priority list for improvements.
- C. **Deliverable:** Copy of assessment maps identifying natural and existing infrastructure. GIS maps, with a report on potential impacts and construction issues. Report showing areas of concern and ranking for priority for improvements and methodology for ranking.

Task # 5

- A. **Title:** Alternative Countermeasures
- B. **Description:** A/E will identify both short term and long term mitigation strategies for the several priority areas of concern. Short term mitigation may include maintenance or infrastructure replacement such as modification of the vaults or valve types, while long term mitigation may include development of strategies and design measures to increase resiliency of the neighborhood to changing tidal conditions. Design measures may include modified storm sewer conveyance and collection systems, profile adjustment, hydraulic capacity and strategies, including below-ground stormwater pump stations and nonstructural regulatory structures to address the long term health of the neighborhood. These areas and strategies will be vetted with the City prior to exploration of feasible alternatives and in-depth evaluation. Possible alternatives will be evaluated for the effects they may have on the land uses and community context, both positive and negative. Conceptual sketches and maps to illustrate anticipated impacts and configurations will be developed. The alternatives analysis will be based on a hydrologic and hydraulic evaluation of the neighborhood while taking into account sea level rise and adaptation throughout the service life of the project. Each alternative will be ranked and described, conceptualized and presented with a construction cost estimate.
- C. **Deliverable:** Report on the short term and long term mitigation strategies and priorities that were identified, to include any potential design measures to be taken, possible alternatives for effects that the effects may have on land uses and community context, conceptual sketches and maps, and construction cost estimate.

Task # 6

- A. **Title:** Report/Plan
- B. **Description:** A/E will prepare a Draft Report that will include all support information; document the study process; summarize the analysis under Task 5; describe the selection and

details of the mitigation strategies; identify the constraints and impacts of each strategy; constructability; and summarize the anticipated costs. A/E will solicit feedback from the City, and incorporate pertinent comments prior to finalizing the Draft Report. Upon review and approval of the Final Report by the City, the required number of copies will be provided with an Adobe PDF copy of the report on CD.

C. Deliverable: Draft and Final Report/Plan as approved by the City

Task # 7

A. Title: Community Meetings

B. Description: As part of the Envision framework adopted by the City, stakeholder engagement in the form of community meetings or outreach is of utmost importance to the success of this plan. The community input gathered can be a useful tool to verify project concepts and ideas. The specific time and location of this meeting will depend based on the development and type of plan being developed.

C. Deliverable: Advertisements, agendas, presentations and sign-in sheets for all Community Meetings that are held, with a written copy of the meeting minutes.

Task # 8

A. Title: QA/QC

B. Description: A/E will conduct Quality Control of all submittals prior to submitting to the City for review. The audit will provide an assessment of completeness, legibility, cross references to ensure that the design intent has been thoroughly communicated through the document within the City preferences. Comments provided by the City and our responses to address each will be reviewed so that we can ensure they have all been appropriately addressed. Comments resulting from this review will be documented on a review set and on a separate memorandum and presented to the City so that they may be addressed prior the final submission.

C. Deliverable: Copy of the separate memorandum and documents presented to the city prior to final submission of the Final Report/Plan.