

EXHIBIT F

DEP AGREEMENT NO. CM740

FEDERAL AWARD IDENTIFICATION NUMBER NA16NOS4190120

Melbourne Beach Coastal Flooding Comprehensive Plan Amendments

Town of Melbourne Beach

Final Project Report



This report funded in part, through a grant agreement *from* the Florida Department of Environmental Protection, Florida Coastal Management Program, by a grant provided by the Office for Coastal Management under the Coastal Zone Management Act of 1972, as amended, National Oceanic and Atmospheric Administration Award No. **NA16NOS4190120**. The views, statements, findings, conclusions and recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the State of Florida, NOAA or any of their subagencies.

July 2016

Final Project Report for CM740

Melbourne Beach Coastal Flooding Comprehensive Plan Amendments

Executive Summary

The project was funded through grant agreement CM 740 from the Florida Department of Environmental Protection, Florida Coastal Management Program. The scope of work consisted of a joint venture between the Town of Melbourne Beach and the East Central Florida Regional Planning Council (ECFRPC). The Town served as the prime contractor with ECFRPC as the subcontractor.

The work product was completed by ECFRPC and the Town's planning consultant (Cost Reimbursement Grant funds). The work product provides the data and analysis necessary to prepare and process comprehensive plan amendments to the Coastal Management Element of the Town's Comprehensive Plan. The Comprehensive Plan amendments, part of the Town's current Evaluation and Appraisal Report (EAR) update process, are required by F.S. 163.3178 (2) (f). Work products include recommended Comprehensive Plan amendments for consideration by the Town of Melbourne Beach based upon the data and analysis.

In addition to the Town of Melbourne Beach, the work product will benefit other coastal communities within the ECFRPC area in their Coastal Management element update efforts.

The work product is comprised of the following work activities, each of which produced a separate project deliverable:

1. Vulnerability Assessment. Maps, data and analysis were prepared identifying at-risk coastal areas that currently experience, or have historically experienced flooding and coastal inundation. Within these areas, public and private resources that are at risk of being inundated were identified. As part of the vulnerability assessment, maps, charts and/or tables illustrating the coastal high hazard area, storm surge areas, areas subject to sea level rise and flooding were prepared in order to identify vulnerabilities of roadways and town land uses and facilities.

2. Preliminary Strategies and Tools Recommendations. Potential development and redevelopment principles and strategies for consideration by the Town during its Evaluation and Appraisal Comprehensive Plan update were discussed, including Peril of Flooding and Adaptation Action Area policies, and tools that reduce flood risk in the coastal areas identified in Task 1. Recommendations were based upon interaction with the residents (Ref: Task 4), survey results, opinions by experts and the vulnerability assessment. Feedback from the public engagement process was emphasized in order to develop strategies and policies for consideration by the Town, including Coastal Element goal, objective and policy revisions to address the state mandated Peril of Flood legislation.

3. Regional and County Program Summaries. A summary of regional and county plans, programs and policies related to addressing the issue of coastal flooding was prepared as the basis to insure Town continued awareness of, and participation in multi-jurisdictional cooperation efforts.

The East Central Florida Regional Planning Council (ECFRPC), through several programs, is involved in coastal flooding resiliency planning for the multi- county region, including the 2060 Plan,

Regional Resiliency Action Plan, Vulnerability Analyses for specific areas, and Public Outreach (e.g. Peril of Flood and Resiliency Newsletter and Peril of Flood Website).

Brevard County is also involved in several resiliency-related and hazard mitigation programs, including the Local Mitigation Strategy (LMS) and Brevard County Emergency Management (BREM).

4. Public Engagement. Public Engagement consisted of three distinct components; two separate public workshops and a MetroQuest Online Survey. Discussions at the initial public workshop, including results of a Menti-meter poll, were used in the development of the on-line survey. The results of the on-line survey were then considered when preparing the initial draft Comprehensive Plan amendments (Ref: Task 2) that addressed citizen concerns regarding flooding, sea level rise, and safeguarding and improving the functions of the Indian River Lagoon.

An overview of the project, vulnerability analysis, survey findings and preliminary recommendations were discussed at the second public workshop. Results of discussions at the workshop were used in drafting final proposed Comprehensive Plan recommendations (Ref: Task 7).

Notices of the public meetings and on-line survey were available to residents, businesses, property owners and known interest groups through postings on the Town website, targeted mailings, and existing public announcement procedures.

5. Review of Town Codes and Requirements. The principal objective of this Task was to determine Town code consistency with the flood-resistant construction requirements of the Florida Building Code and applicable flood plain management regulations set forth in 44 C.F.R. part 60, and recommend revisions as necessary.

The report concluded that through its Comprehensive Plan, Land Development Code, and educational program, the Town complies with the intent and letter of the requirements of the Florida Building Code and 44 CFR 60 regarding flood-resistant construction. This report recommended that the Town continue to coordinate with applicable State and Federal agencies, continue to enforce various code provisions for flood-resistant construction, and continue to update the Comprehensive Plan and Land Development Code to reflect changes and innovations in construction methods to minimize impacts of local flooding.

6. National Flood Insurance Program Community Rating System Review. The report focused on how the Town of Melbourne Beach currently benefits from the National Flood Insurance Program (NFIP) Community Rating System (CRS) as well as exploring some potential room for class improvement.

The Town currently holds a CRS class 8 score on a scale of 1 to 10. If the Town Floodplain Manager/ CRS coordinator works with the Insurance Service Office ISO/CRS, the community can either choose to strengthen their current class, improve their class, or decide to take no action at this time.

The report gathered data from the State of Florida and examined some of the common activities that other small communities do to receive credit in order to help the Town determine their best course of action.

The report recommended that the Town of Melbourne Beach remain in the CRS program at a class 8 if no significant further action is to be taken. At the time of this report, the Town decided to not pursue

a class improvement because pursuing an improvement would require additional personnel to oversee the program.

7. Draft Data and Analysis and EAR-Based Comprehensive Plan Amendments. The report prepared draft Comprehensive Plan amendments incorporating the results of Tasks 1 – 6. Proposed amendments were prepared for the following Comprehensive Plan elements: Future Land Use; Housing; Coastal Management; Intergovernmental Coordination; and Capital Improvements.

Methodology

The overall objective of Agreement No. CM 740 was to prepare recommended amendments to the Coastal Management element of the Melbourne Beach Comprehensive Plan to comply with the Peril of Flooding Comprehensive Plan requirements of Florida Statutes Chapter 163.3178 (2) (f).

The Town of Melbourne Beach contracted the East Central Florida Regional Planning Council (ECFRPC) to complete the bulk of the scope of work under Agreement No. CM 740. ECFRPC completed a vulnerability assessment, Community Rating System (CRS) assessment and a Public Engagement process (i.e. two public workshops and an online survey) to incorporate public comments, issues and concerns within the program.

In addition, the Town Planning Consultant completed an assessment of County and Regional programs related to coastal flooding and a review of Melbourne Beach Comprehensive Plan and development codes related flood-resistant construction requirements.

The combined work products and public outreach efforts resulted in a series of proposed Comprehensive Plan amendments to be considered by the Town during its required Evaluation and Appraisal Report (EAR) comprehensive plan update.

Outcome

A series of proposed amendments were prepared for consideration by the Town during its state-mandated Evaluation and Appraisal Report (EAR) Comprehensive Plan update process. The EAR-based amendment process will commence immediately following the conclusion of DEP Agreement No. CM740

Further Recommendations

While the impacts of sea level rise inundation may not impact Melbourne Beach until later in the century, putting mechanisms in place well ahead of time will make transitions required in the future easier to implement. Several proposed Comprehensive Plan policies include periodic review and assessment of vulnerability data, code requirements, and Town resiliency capabilities in order to maintain the safety and well-being of the community and preservation of municipal infrastructure while also minimizing the long-term potential legal liabilities and unintended future risks to residents from the perils of flood.

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**INSTRUCTIONS FOR COMPLETING
ATTACHMENT F
FINAL PROJECT REPORT FORM**

DEP AGREEMENT NO.: This is the number on your grant agreement that starts with CM####.

GRANTEE NAME: Enter the name of the grantee's agency.

PROJECT TITLE: Enter the Title shown on the first page of the grant agreement.

NOAA AWARD NUMBER: Enter the NOAA award number as shown on the first page of the grant agreement.

MONTH & YEAR: Enter month and year of publication.

The Final Project Report must contain the following sections: Executive Summary, Methodology, Outcome and Findings Recommendations. The Final Project Report must comply with the publication requirements in the Grant Agreement. Please limit final project report to no more than five pages. A draft should be submitted electronically to the Department's Grant Manager for approval. After approval by the Florida Coastal Management Program, one hard copy and an electronic copy shall be submitted to the Department's Grant Manager. Final payment will be held until receipt and approval of the Final Project Report.

Questions regarding completion of the Final Project Report should be directed to the Department's Grant Manager, identified in paragraph 18 of this Agreement.

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