



City of Pensacola

222 West Main Street
Pensacola, FL 32502

Memorandum

File #: 19-00315

City Council

7/18/2019

PRESENTATION ITEM

FROM: Grover C. Robinson, IV, Mayor

SUBJECT:

STORMWATER MASTER PLAN UPDATE

REQUEST:

That City Council receive a presentation from Derrik Owens, Director of Public Works and Facilities/City Engineer regarding the Stormwater Master Plan Update.

SUMMARY:

The City of Pensacola (City) entered into a contract with Mott MacDonald, LLC., for Professional Engineering services required to update the City's Stormwater Master Plan. The original plan was last updated 1987 and the new plan update took place in two distinct phases with the first phase being the development of a city-wide comprehensive stormwater hydrologic/hydraulic model. This effort required inventory and verification of existing stormwater infrastructure and collection of data both via field survey, as well as review of existing electronic data. Once all data was collected and verified, the information was entered into the latest version of the stormwater modeling software known as ICPR4, which is one of the most advanced and commonly used programs in the industry. The model was run for 100-year critical duration storms to be consistent with our current LDC requirements and areas of current stormwater rate/volume issues were identified, based upon the City's adopted Comprehensive Plan levels of service (LOS) for City roadways and property flooding. The model will be a well-used and extremely valuable "living" tool to identify current and future flooding issues (proactively) as a result of development, infrastructure additions/upgrades, natural hydrological changes, etc.

The second phase of the update consisted of document production related to the severity of the rate/volume issues at each selected roadway location to develop a ranking matrix to be prioritized in the development of Engineering design solutions for each area. Ultimately, ten (10) significant locations (projects) of roadway flooding were identified as critical areas which warranted more in-depth analysis and production of proposed design solutions. These primary projects of significance are specifically outlined in the report/plan for consideration by the City simply as a "guide" to address current roadway/property flooding issues going forward. It will be the City's option to choose the projects to move forward with and adopt a tentative time frame or "goal" to reach specific milestones in an effort to address City roadway flooding issues, both current and future. These goals and milestones will be directly influenced by a number of factors including, but not limited to, overall project cost, safety, convenience, economics, etc., and should be considered in the decision-making

process. The final report/plan discusses and outlines these and other items of consideration and are also mentioned in the presentation.

PRIOR ACTION:

None

STAFF CONTACT:

Christopher L. Holley, City Administrator

L. Derrik Owens, P.E., D.WRE, Director of Public Works and Facilities/City Engineer

ATTACHMENTS:

None

PRESENTATION: Yes