



OFFICE OF MAYOR LENNY CURRY

ST. JAMES BUILDING
117 W. DUVAL STREET, SUITE 400
JACKSONVILLE, FLORIDA 32202

TEL: (904) 630-1776
FAX: (904) 630-2391
www.coj.net

**Storm Resiliency & Infrastructure Development Review Committee Meeting
Approved Meeting Minutes for March 29, 2019
Location: City Hall, 117 W. Duval Street, Suite 400, Mayor's Large Conference Room**

Meeting Convened: 1:30 PM

Mr. Mousa opened the meeting and asked everyone to introduce themselves for the record. For attendance purposes, the sign in sheet is attached to the minutes.

Review/Approval of Meeting Minutes 3.15.19

Mr. Mousa asked for a motion to review/approval of minutes from March 15, 2019. CM Boyer made the motion and John Pappas offered the 2nd. Mr. Mousa asked if there were any edits, comments or corrections or questions. Hearing none, the meeting minutes of March 15, 2019 were approved by the committee.

Mr. Mousa discussed the agenda and explained that the pending presentations for future meetings would need to be scheduled in order to keep track of what was discussed and what may still have questions or require additional information. Mr. Mousa requested that these pending presentations be scheduled as soon as possible, and no later than June.

Agency Presentations

The first presentation was by Glenn Landers, U.S. Army Corp of Engineers, regarding Design Considerations for Climate Preparedness and Resilience. There was no handout available at the time, however Mr. Landers provided a detailed presentation on the topic of sea level changes, climate warming/changes, rising waters/water temperatures and air quality. A copy of the presentation is attached to the minutes.

CM Boyer asked about a federally funded Corp study on the sea level rise and flooding risks in Norfolk. Would there be an opportunity for the City to benefit from such a study as we also have several Navy bases that would be similarly impacted? Mr. Landers said the chief of planning could talk to us about any type of study we wanted to do. CM Boyer clarified that it was the city and county that proactively initiated the study and they included the Navy. Mr. Mousa stated that we would be very interested in seeking Mr. Landers help in working with the Corp planners in partnering with the City and Navy bases regarding our city-wide drainage criteria. Mr. Mousa asked how the information provided could be used to retrofit or to mitigate. Mr. Landers indicated that Ft. Lauderdale issued a county-wide ordinance to raise

their seawalls and canals elevation from none to 2.5 - 4 feet. Miami Beach has added 3 feet of fill on their roads and installed pumps to the intercoastal waterway.

The next presentation was JEA's Storm Resiliency Program by the Jacobs Engineering Group. Deryle Calhoun stated that their resiliency efforts with Jacobs came out of the two hurricanes looking to harden JEA's facilities and controls along with their 1,700 structures and properties. Mr. Calhoun introduced Mr. Laurens van der Tak, a Professional Engineer with Jacobs. Mr. van der Tak narrated the attached PowerPoint presentation that includes the following topics.

- Program Goals
- Program Activities
- JEA's readiness for an uncertain climate future
- JEA's 1,700+ facilities across a 4-county region with nearly 500,00 customer accounts
- Sea level rise and precipitation projections, and recommended climate scenarios
- Historical trends in sea level rise
- Sea level rise; updated projections
- Rainfall analysis and IDF projections
- SimClim Preliminary IDF projection results; median of global model projection ensemble
- Eight scenarios selected through scenario planning
- Flood modeling methodology development
- Surge modeling performed of historical hurricane events
- Inland flood modeling performed
- Calibration – Historical Event: Hurricane Matthew
- Validation – Historical Event: Hurricane Irma
- Longitudinal profiles for FEMA SWE and Hurricanes Irma and Matthew
- 100-year storm: Base scenario versus scenario 1
- Process for identifying and prioritizing JEA's critical facilities
- Vulnerability Assessment – JEA facility criticality and prioritization for site visits

The next discussion was from CM Boyer. The discussion included information from the documents on Neighboring cities and counties – regulations regarding impervious surface distribution. These include the City of Orlando, Volusia County, City of Atlantic Beach and St. Johns County for references. A diagram on the effects of imperviousness on runoff and infiltration was included. The more ground surface area covered with impervious service created more runoff. CM Boyer went through the bullet point comparisons of the above-mentioned cities/counties and a chart which shows estimated runoff for urban areas. CM Boyer said she would be happy to meet with Bill Joyce to discuss maximum lot coverage vs impervious surface ratio percentages. Recommendations will be presented to the committee at a future meeting.

Next, CM Boyer presented a Floodplain Management memo on Palm Coast Ordinance comparison with COJ Code. Mr. Mousa requested that CM Boyer meet with John Pappas and Bill Joyce on this matter. John Pappas stated that his today's presentation included an added sheet that detailed Duval County comparison with Palm Coast.

Next, a PowerPoint presentation of Public Works' Overview Existing Drainage Systems by John Pappas which covered the following topics:

- Components
- Age
- Components & Areas
- Potential "Hardening" of Drainage System

Mr. Mousa requested that John Pappas take the lead on putting together a draft based on everything learned to outline a long-term strategic plan for hardening in CIP format with timeframes.

Public Comments

Speakers included:

Sarah Boren – U.S. Green Building Council

Shannon Blankenship – St. Johns Riverkeeper

Next Meeting

The next scheduled meeting is Friday, April 12, 2019, 1:30 pm.

Meeting Adjourned: 3:36 PM

The written minutes for this meeting are only an overview of what was discussed, for any questions please contact Marlene Russell at marlener@coj.net.

Attachments:

Meeting package March 29, 2019:

- Agenda
- Sign in Sheet
- Approved Minutes – March 15, 2019
- Copies of presentations:
 - US Army Corp of Engineers Design Consideration for Climate Preparedness and Resilience
 - JEA Storm Resiliency Program
 - CM Lori Boyer – Impervious Surface/Lot Coverage Ratios and Stormwater
 - CM Lori Boyer – Floodplain Management – Comparison to Palm Coast
 - Public Works – Overview of Existing Drainage Systems