



**TOWN OF DAVIE
STORMWATER MASTER PLAN WORKSHOP MEETING
OCTOBER 18, 2017**

1. PLEDGE OF ALLEGIANCE

The meeting was called to order at 5:00 p.m. and was followed by the Pledge of Allegiance.

2. ROLL CALL

Present at the meeting were Mayor Paul, Vice-Mayor Luis and Councilmembers Caletka (by phone), Hattan and Starkey. Also present were Town Administrator Lemack, Deputy Town Administrator Lewis, Assistant Town Administrator Holste, Town Attorney Rayson and Town Clerk Roig recording the meeting.

3. STORMWATER MASTER PLAN

Mr. Holste introduced Fred Bloetscher, Ph.D. Associate Professor at FAU. Mr. Holste explained the Master Plan goals were to address the following priorities:

- Water quality concerns
- Mitigation of flood prone areas
- Maintenance of a functional stormwater management system
- Compliance with current and future regulatory requirements and permits
- Maintaining the health and quality of life for Davie residents

Mr. Bloetscher provided a Power Point presentation describing the creation of the Master Plan.

Tasks:

- Develop Topographic LIDAR map of Community
- Map Assets and Assess Condition
- Develop Mapping Tools of Infrastructure
- Develop Database of Populations and Property data
- Model Stormwater System
- Identify Vulnerable Areas
- Develop Toolbox of Infrastructure and Policy Solutions
- Create Scenarios
- Analyze Scenarios

Mr. Bloetscher displayed maps showing:

- Topography (LIDAR)
- Assets/condition
- Infrastructure
- Populations and property data
- Building age
- Residential property values
- Total property values
- Ground imperviousness

Mr. Bloetscher explained the modeling and described various rainfall/flood scenarios and vulnerable areas they had identified. He stated they had developed a toolbox of infrastructure and policy solutions the Town could consider implementing such as installing pipes and/or pumps and creating a well point system.

Mr. Bloetscher said the Town needed to consider what storms they would plan for. He had created a capital cost projection over timelines ranging from the next five years, the next 35 years, from 2035 to 2028 and from 2070 to 2100.

Mr. Bloetscher had also drafted a graph (contained in the report) showing what the costs would be based on addressing 1-in-10, 1-in-100 and 3 and 25 storm events. He stated the 3 and 25 and the 1-in-100 looked similar and mimicked the storm event the Town had experienced in June. He said the Town must discuss with residents: what level of service was desired; how much flooding was acceptable; the location of hotspots that flooded first and/or affected economic activity.

Mayor Paul stated after the June flood, they had identified some areas that they could work on this budget year. Central Broward Water Management District was going to extend the 14 Street Canal east to Flamingo Road in this budget year. She said the important point was that the Town could not act in a vacuum; the County and other municipalities must all participate. Mayor Paul stated the Town could start meeting with the water management districts to develop a plan to lower canals but this was risky because rainfall levels were not always as anticipated.

Mayor Paul felt that filled-in swales were adding to the problem because this caused runoff and did not allow rainwater to drain back into the ground. She wanted to get the swales re-cut to perform their intended function properly. Mr. Bloetscher agreed that filled-in swales were a problem and added that parking on swales compacted the ground and made it less pervious as well. These were short-term, inexpensive polices the Town could implement that would make a difference. Mayor Paul wanted to consider changes to the Land Development Code to require multi-family developments not to have dry retention areas and to have bushes or ponds around the property.

Councilmember Hattan said years ago, her swale area would fill after a rain and then her property would flood. The Town had re-dug the swales on her street and the property did not flood anymore.

Councilmember Starkey said they needed to consider many things to do throughout the Town. She thought it would be wise to break the Town down into basins and make recommendations for the most severe basins first. Mr. Bloetscher had spoken with staff, who had identified projects they had already discussed with Council, and some of those projects were in the most compromised areas. He suggested looking at areas that already had a managed system and determining if that system was maintained, especially in early summer, prior to the rainy season. Mr. Bloetscher recommended performing a study on these distinct areas and then designing infrastructure accordingly.

Vice-Mayor Luis stated he had lived in a very flood-prone area where he did not feel planning for a 10-year event would be sufficient. He knew the Town needed to do something in the very near future.

Mayor Paul agreed to performing an in-depth review of the worst areas. Mr. Holste said the Master Plan would be on Council's November 1 agenda. After it was adopted, he recommended staff meet with the water control districts to discuss solutions. They would determine the areas they needed to study further in cooperation with the water control districts.

Councilmember Starkey thanked Mr. Bloetscher for the study. She wanted conversations to include the South Broward Water Control District because they were responsible for pumping. Mayor Paul thought the Town's Broward County Commissioner, Steve Geller, could offer assistance with the County. Councilmember Starkey said Commissioner Geller was on the Water Advisory Board as well.

4. ADJOURNMENT

There being no further business to discuss and no objections, the meeting was adjourned at 6:05 p.m.

Approved _____

Mayor/Councilmember

Town Clerk