



CITY OF NORTH RIDGEVILLE

**Engineering Department
Daniel Rodriguez, P.E., City Engineer**

DRAINAGE AND FLOOD CONTROL BOARD

Minutes for Tuesday, April 24, 2018 Meeting

Meeting called to order by City Engineer Daniel Rodriguez at 7:00 p.m.

In attendance were:

Ed Dunham	Mike Borow	Brendan McCool
Mike Gillespie	Eugene Kleinholz	City Engineer Daniel Rodriguez
Doug Bolden	Dennis Boose	Resident Rick Szalkowski
Assistant City Engineer Cathy Becker		Carissa Woytach

Old Business

A. Minutes for January 23, 2018 Meeting

City Engineer Daniel Rodriguez asked for a motion to approve the minutes from the January 23, 2018 meeting. Board Member Dennis Boose made a motion to approve the minutes. Board Member Mike Gillespie seconded the motion. The motion was unanimously approved.

New Business

A. Waterbury Subdivision Phase 9

City Engineer and Chairman of the Board of Drainage and Flood Control Daniel Rodriguez said that this subject was a hot topic for residents and at the recent City Council and Planning Commission meetings. He believes all of the issues that arose were addressed to the satisfaction of the residents. He displayed the storm water management calculations for this project. He said because of the amount of concern expressed by residents about this project and its potential effects on flooding in the area, an outside consultant reviewed the calculations in addition to the North Ridgeville Engineering Department.

Assistant City Engineer Cathy Becker explained the storm water management calculations. The proposed development is to release less water to Ridgeway Ditch from the proposed basin than is released for existing conditions. The five-year post-development storm will release less water than the pre-development one-year storm. All other storms including the 100-year storm will also release less water than the corresponding pre-development storms. The storm water storage basin calculations were also modeled using the Ridgeway Ditch water surface as a factor affecting how much water could be released from the Waterbury 9 basin. The

calculations showed that the basin will also release less water than for pre-development conditions for all of the storm return periods including the 100-year storm according to this hydraulic model. The 100-year storm water surface elevation in the basin will be the same as the 100-year water surface elevation in Ridgeway Ditch. The basin peak water surface elevation will occur before the Ridgeway Ditch peak water surface elevation according to the hydraulic calculations.

City Engineer Daniel Rodriguez said that the outside consulting company Hydrosphere are the highest experts in this field and both of their engineers have doctorate degrees and teach at Cleveland State University. The outside consultant reviewed the calculations twice. After the second review the outside consultant and the city agreed that the calculations were revised to everyone's satisfaction. He displayed the pre- and post-development watershed maps and explained how the water will drain to the basins and also pick up some of the drainage from future phases of Waterbury.

Board Member Dennis Boose asked what type of complaints residents had about this project. City Engineer Daniel Rodriguez said that one resident on Lexington Way complained that her rear yard swale is already flooded and was worried that this project next door to her would make the flooding worse. He explained that the project would have its own drainage system to pick up storm water, and she was satisfied. He said she said that one of her neighbors had blocked her swale downstream of her.

Board Member Dennis Boose and City Engineer Daniel Rodriguez agreed that residents need to be educated about storm water and good communication between the city and residents does help.

Board Member Brendan McCool said that it was his aunt that lives on Lexington Way that complained, and she is satisfied now. He said that the developer displayed an incorrect map at the Planning Commission meeting, and it confused some of the residents.

Board Member Dennis Boose asked how the city ensures that the basins are built according to design. City Engineer Daniel Rodriguez explained the process of construction beginning with a temporary sediment basin, then underground utilities, then pavement and grading. He said the Engineering Department has three inspectors who watch the construction. At the end of construction the developer submits an as-built plan in which a registered surveyor certifies that the grades constructed around the basin are according to the design plans.

Board Member Dennis Boose mentioned that for the Advanced Auto site project the developer had not finished constructing on all of the lots. The basin is left unmaintained much of the time. City Engineer Daniel Rodriguez said that when the city asks developers to do their basin maintenance they usually comply.

B. Items from Committee Members:

Board Member Gene Kleinholz asked what the elevation difference was between basement floors and sanitary sewers. City Engineer Daniel Rodriguez said that it varies from 2.5 feet to 20 feet. Board Member Gene Kleinholz asked how the entire city could be sewerred, and City Engineer Daniel Rodriguez explained that there is a master sanitary sewer plan which covers the entire city. The master plan contains information on sizes and elevations required for future sewers.

Board Member Gene Kleinholz asked if Norfolk Southern Railroad was repairing their bridge over Ridgeway Ditch at Maddock Road. City Engineer Daniel Rodriguez said that in the past few days they were replacing railroad ties near the bridge but not replacing or repairing the bridge. He said the city is going to replace their own bridge on Maddock Road over Ridgeway Ditch which abuts the railroad's bridge but the railroad did not want to participate in the replacement project. The city plans to move the bridge crossing a little farther south away from the railroad.

Board Member Brendan McCool asked if North Ridgeville was going to be instituting a storm water utility similar to what Avon had recently done. City Engineer Daniel Rodriguez said that this is coming soon but the details have yet to be worked out. The fees collected will pay for storm sewer maintenance, ditch cleaning and flood control projects. The fee amount has yet to be determined and must be approved by City Council. The city is being very careful to get the program correct because other cities that have instituted the fee have had problems. Board Member Dennis Boose said this utility will allow more projects to be funded so that City Council will not have to pick and choose which projects to fund. City Engineer Daniel Rodriguez said that a manual is being developed which will explain the fees, what they are to be used for, and how they were calculated.

Board Member Gene Kleinholz asked if the \$4 million Mills Creek Flood Control project could be funded by the storm water utility, and City Engineer Daniel Rodriguez said yes. City Engineer Daniel Rodriguez discussed the status of the grants that the city applied for for this project. The Mayor just signed the contract agreement for the first grant of \$1,000,000 today, and it will be sent back to Ohio Department of Natural Resources so that the project can begin. The city applied in the second round of grant applications, and it is believed that the city will be awarded about \$400,000. It has also been mentioned that USEPA may be interested in funding this project because of its aquatic habitat component. Board Member Gene Kleinholz asked if the Lorain County Metroparks was participating in this project, and City Engineer Daniel Rodriguez said they were not.

Board Member Gene Kleinholz asked if there were any flooding reports for the recent storm. City Engineer Daniel Rodriguez said that the city received about 2.5 inches of rain, but the Service Department only received two complaints of sanitary sewer check valves not operating correctly.

Board Member Gene Kleinholz said that he received a report that the property owner at 32376 Chestnut Ridge Road was bringing in fill and moving dirt. City Engineer Daniel Rodriguez said that this issue has been taken care of. Board Member Gene Kleinholz said that he received another report that the property owner on the north side of Center Ridge Road east of Dyke Avenue was also bringing in a lot of fill. He said a new house was being built nearby and the owner could not plant grass because the final grade was not approved by the city yet. He asked why one property owner was moving mounds of dirt, but the other could not even plant grass. City Engineer Daniel Rodriguez said that the Engineering Department will handle complaints that are brought to their attention, and the site on the north side of Center Ridge Road was not. He said that it is standard procedure for final grades to be approved before grass can be planted on new houses.

City Engineer Daniel Rodriguez adjourned the meeting at 7:54 p.m.

Respectfully Submitted,

Daniel Rodriguez
City Engineer