



CITY OF NORTH RIDGEVILLE

**Engineering Department
Scott Wangler, P.E., City Engineer**

DRAINAGE AND FLOOD CONTROL BOARD

Minutes for Tuesday, October 25, 2016 Meeting

Meeting called to order by City Engineer Scott Wangler at 7:00 p.m.

In attendance were:

Ed Dunham	Rosemary Berg	Bernadine Butkowski
Dennis Boose	Mario Cipriano	Doug Bolden
William Gardner	Bob Chapek	
Michael Borow		
City Engineer Scott Wangler		
Assistant City Engineer Cathy Becker		

Old Business

- A. Minutes for January 26, 2016 Meeting**
- B. Minutes for April 26, 2016 Meeting**
- C. Minutes for July 26, 2016 Meeting**

City Engineer Scott Wangler asked for a motion to approve the minutes from the January 26, April 26, and July 26, 2016 meetings. Board Member Dennis Boose made a motion to approve the minutes. Board Member Bob Chapek seconded the motion. The motion was unanimously approved.

New Business

- A. City Engineer Scott Wangler discussed New Business Agenda Item A—Ohio Turnpike Grant Update – Reroute 72 Inch Pipe to West Point Basin.**

City Engineer Scott Wangler explained that the city met with ODOT at the site by the Ohio Turnpike to discuss the environmental clearance. In order to get environmental clearance, the city removed dual 18-inch culverts that flowed into the West Point basin and replaced them with dual 36-inch culverts. This measure will provide more flow into the basin at a location where the travel time of the flow meandering through the basin will be increased. Increased meandering of water and travel time through the basin will improve the water quality by allowing sediment and pollutants to drop out of the water. Other expensive measures to improve water quality will not now be needed in the project. He showed photos of the city's trench excavation. He explained that the storm water from the 72-inch pipe under the Turnpike currently drains directly north from a drainage structure near Davis Drive through a 24-inch pipe and then to the Pitts/Gina area. The proposed project will redirect most of the flow to the West Point basin through either a ditch or a pipe (currently being designed).

Board Member Dennis Boose asked about the remaining capacity of the West Point basin and if this project will solve the flooding in the Pitts/Gina area. City Engineer Scott Wangler said that it won't solve the flooding, but it will reduce it.

Board Member Ed Dunham asked if West Point basin would be made larger eventually. City Engineer Scott Wangler said that may be possible but it would be expensive due to the fact that the excavation would be in rock.

Board Member Mario Cipriano asked if this project would provide substantial flood mitigation. City Engineer Scott Wangler said yes. There was also a discussion about the fact that ODOT is administering this project although it is a Turnpike grant.

Board Members Dennis Boose and Mario Cipriano asked if the grant is paying for the dual 36-inch storm sewer installation. City Engineer Scott Wangler said that the city did this work including the excavation for the storm sewers.

Board Member Bill Gardner asked how much fall there was from Davis Drive to the West Point basin. City Engineer Scott Wangler could not determine the elevation difference from the GoogleEarth map that was displayed in the meeting.

Board Member Mike Borow asked about the weir that diverts water into the West Point basin from Dixon Ditch. City Engineer Scott Wangler displayed photos of the weir and said that it backs water up into the West Point basin and when the flows are high enough some storm water flows over the top of the weir without going into the West Point basin.

Board Member Mario Cipriano asked if the flows were engineered to determine how much could be diverted to West Point basin so that no flooding would occur at any homes. City Engineer Scott Wangler said yes.

B. Items from Committee Members:

Board Member Dennis Boose asked if the Aurenson Road ditch work was part of the OTC grant. City Engineer Scott Wangler said that the Aurenson Road ditch work was performed by the city. They softened a 90-degree bend in the ditch just downstream from the Turnpike culvert.

Board Member Dennis Boose asked what the next project would be in the \$4 million storm water improvements plan. City Engineer Scott Wangler said that the \$1 million state grant would be used to build a detention basin with water quality features north of Boulder Drive. Board Member Dennis Boose asked about the time frame for this project, and City Engineer Scott Wangler said that he just requested a purchase order to be signed for preparation of the project scope application required by the State.

Board Member Bill Gardner asked if the basin would be located near the power lines. City Engineer Scott Wangler said that it would be on the triangular parcel previously owned by Dettore next to the power lines. Board Member Bill Gardner asked if all the trees would be removed, and City Engineer Scott Wangler said yes but that there would be water quality features provided such as meandering channels, pools, etc. He said it would be a park-like setting and the project would have an environmental component.

Board Member Bernadine Butkowski asked if the Boulder basin would be similar to the equalization basin that the city had toured in North Olmsted. City Engineer Scott Wangler said that the equalization basin was for sanitary sewer flows, not storm water flows.

Board Member Dennis Boose asked if the Boulder basin would be constructed in 2017, and City Engineer Scott Wangler said it is possible.

Board Member Dennis Boose asked what the next step in the \$4 million plan would be. City Engineer Scott Wangler said that the redirection of the Robinson Ditch flow from Debbie Drive to the east to Mills Creek would be the next step. After the Boulder basin is constructed there will be enough storm water storage in it to redirect more storm water from Robinson Ditch to Mills Creek without causing flooding in Mills Creek. So the Boulder basin needs to be constructed before Robinson Ditch flow can be redirected to Mills Creek.

Board Member Dennis Boose asked if there are grants that can be used now for the Robinson Ditch work, etc. City Engineer Scott Wangler said that grants become available only at certain times, but the upcoming storm water utility would be used to generate income to fund these projects.

Board Member Dennis Boose asked about the status of the creation of the storm water utility. Assistant City Engineer Cathy Becker said that Bramhall Engineering and Surveying Company is currently working on its development.

Board Member Mario Cipriano asked if the storm water utility would be presented to City Council for implementation. City Engineer Scott Wangler said that the program is being developed carefully so that it can be implemented smoothly. Board Member Bill Gardner said that the City of Sheffield Lake implemented a storm water utility, and the commercial site fees were based on square footage of impervious area. City Engineer Scott Wangler said North Ridgeville's storm water utility would be similar.

City Engineer Scott Wangler stated that the next meeting was scheduled for Tuesday, January 24, 2017 in the Conference Room.

City Engineer Scott Wangler adjourned the meeting at 7:25 p.m.

Respectfully Submitted,

Scott Wangler, P.E.
City Engineer

APPROVED: _____