

Minutes

**Storm Water Committee Meeting
New Berlin City Hall
3805 S. Casper Drive
Council Chambers
September 9, 2003**

Please note: Minutes are unofficial until approved by the Stormwater Committee at their next regularly scheduled meeting.

Present: Alderman Wilkens, Alderman Gallagher, Mayor Wysocki, and City Engineer J.P. Walker

Excused: Alderman Bullerman

Others Present: Ray Grzys (Director Utilities and Streets), Eric Nitschke (Division Engineer), Cathy Schwalbach (Storm Water Engineer), Chuck Trevorow (Storm water Supervisor), Mustafa Emir and Matt Bednarski from Bonestroo, Rosene, Anderlik & Associates

Meeting called to order at 4:46 pm by Mayor Wysocki and a quorum was declared.

Item SW 01-03 Approval of the August 12, 2003 minutes

Motion by J.P. Walker to approve the August 12, 2003 minutes. Second by Alderman Gallagher. Upon voting, motion passed unanimously.

Item 23-03 Stormwater Project Update

- Eric Nitschke stated that representatives from Bonestroo were present to discuss several of the Stormwater projects and provide an overall update.
- Mustafa Emir of Bonestroo presented the following information and updated the committee on the following Stormwater projects.

Deer Creek Watershed Buena Park Stormwater Improvements (NP-1)

Dr. Emir said that 6-7 years ago a hydraulic design study was completed of Deer Creek to improve the flooding problems. SP-2 is a direct result of the study and other structures proposed included NP-1. SP-2 has reduced the water surface elevations during a flood stage at the 1% occurrence level (the level of commonly accepted risk)

The current Stormwater project started 3 ½ years ago with a feasibility study that provided four alternatives for storage. The regulatory rules are different now. The dilemma is what can be done on the regional level to bring an improvement in the drainage. The focus needs to shift from a flooding problem to a quality of life problem and the project has evolved to improvement of ditches, culverts and installing a limited amount of storm sewers.

Alderman Gallagher said that a few years ago, the Committee was told that only a pond would do. Dr. Emir stated that the DNR has interpreted the regulation differently, and that a retention pond is no longer permitted. Alderman Gallagher asked what would happen if even after we do all the ditch work and after a rain it still floods these homes? Mayor Wysocki asked if an underground storage facility would help? Dr. Emir stated that a storage facility would be too small and we would still have to do improvements to get the water there.

J.P. Walker stated that about a year ago CP-5 was proposed next to Deer Creek, but the DNR said that was not permitted. The City looked at possible sites in the Industrial Park, but there was not an economically viable option. The question is how can we find an area that provides flood storage and meets the requirements of the DNR? How can we provide the largest amount of benefit for the

money approved for the largest number of people?

Eric Nitschke stated that the project involves more than just ditching, there will be storm sewers and the drainage of the subdivision will be split up. At least half of the water currently entering Deer Creek at Roosevelt Avenue will be re-routed to another drainage area where it will enter at a different point. In addition, SP-2 has already improved the situation by lowering the floodplain in this area. Mr. Nitschke indicated that this project is a necessary component in the overall solution of the flooding problem in this area. Mayor Wysocki asked if both the proposed re-ditching effort in Buena Park Subdivision and a flood storage pond were necessary? Mr. Nitschke indicated that they were.

Upper Root River Watershed

Eric Nitschke began by explaining the current design for storm sewers in the Gatewood Subdivision. Mr. Nitschke stated that the Street Department installed storm sewer on both sides of the street on Woodside Drive last year. They used an innovative approach (by JP Walker) by running the storm sewer through the existing ditch line and putting in riser pipes with inlets at each lot line that the homeowners could tie into. The goal was to avoid disturbing the roadway, maintain water quality, maintain flow, and provide water storage within the existing ditches. The proposed project is a continuation of putting storm sewers in the rest of the subdivision, reditching and providing online storage in a 60-foot storm sewer pipe that has a control structure regulating the release of water.

Alderman Gallagher asked why curb and gutters were not used in the area? Eric said that you lose water quality by doing that. We keep water quality with NR-216 requirements by not using curb and gutter.

Parkwood Lane Drainage Improvements

Original Project Scope and Description: Construction of a regional detention facility located along Sunny Slope Road on the Pickle Factory site adjacent to Gatewood Park. Installation of 2,300 feet of storm sewer and rerouting existing flow path to go under railroad track and discharge to pond.

Original Analysis of Need: 263 acres of improved land drains to one point along Parkwood Lane. The inlet has insufficient capacity causing water to pond over the top of the road. The result has compromised safety and water quality.

Eric Nitschke stated that the Parkwood Lane, Woodshire Ditch and Overland Trail storm sewer project have gone through many phases. Studies were done on all 3 areas, but not in respect to each other. R.A. Smith recommends purchasing the Pickle Factory to make this a retention pond, install storm sewer and reroute existing flow path. City staff has talked to residents who have concerns about the flooding, as water comes from Gatewood Park, the school, Rogers Drive, Honey Lane and back to Parkwood. Mr. Nitschke stated that we cannot completely discount the purchase of the Pickle factory until a full analysis of the watershed is completed. I do not believe the Pickle factory is a viable location for a best management practice, but until the study that we are proposing is completed, I don't want to completely discount it.

Calhoun Park Pond Stabilization

Mr. Nitschke stated that for all intents and purposes this has been completed, except for a few minor changes in decking for the educational pier.

Malone Park

Matt Bednarski, Bonestroo gave the following update on the Malone Park project. Mr. Bednarski stated that the construction of the New Berlin Safety Building and the expansion to the Water Utility building have required the City to comply with our own ordinance. This is in the same watershed as the Star of Bethlehem who also plans expansion. The original plan was for a regional pond, but over time this became unpermissible by DNR standards. The City of New Berlin had to change gears to use an underground storage facility under the parking lot and soccer field. Since then, a more useful

location, in the outfield of the ball field, east of the gazebo was chosen. The water flows to that location and a junction chamber picks up the stormwater. After discussion with regulatory agencies and staff, Bonestroo has designed a 2 acre-feet of storage facility, but cost outweighs the benefits. Installation would be \$600,000 - \$1,000,000. Similar storage in a pond would be \$100,000-\$150,000. Bonestroo is looking at other alternatives including a separate storage facility for the City and the Star of Bethlehem church. Preliminary calculations show that the church could achieve the storage that they need in 24" underground pipes along the south property line and the City could reduce the size of the retention facility to 0.7 acre-feet.

Alderman Gallagher asked if the City has made any commitments to the Star of Bethlehem? Eric Nitschke said that yes the City has, but the church has also said that they will provide \$50,000. If we keep water storage on site, the storage requirement is smaller. Two – 24" pipes over a distance of 200 feet will potentially take care of the Star of Bethlehem storage problem and the \$50,000 would more than cover the installation and cost. Bonestroo must complete their analysis before this is verified. Mayor Wysocki added that \$50,000 is the stipulated amount, but that they could provide additional funds. He asked if the storage facility could hold 3,000 people, like the July 4th celebration? Mr. Bednarski stated that the 2 feet of cover would be sufficient and that they are looking at PVC, steel and concrete pipes. Mayor Wysocki asked if the work could be done before July 4th, 2004? Mr. Nitschke replied yes if we start this year.

Tess Corner Creek Pond

Eric Nitschke stated that as far as the DNR grant goes, we can't count water quality facilities already existing and Westridge Park Pond is a pre-existing water quality facility. The good news is that most of the drainage area flowing to the Tess Creek Pond is residential. Mayor Wysocki asked that the Stormwater staff keep Alderman Harenda informed since it was his area. J.P. Walker stated that copies of all executive summaries from the consultant are forwarded to him.

Item SW 22-03 Reallocation Existing CIP Funding for Parkwood Lane and Underwood Creek Drainage Improvement Projects

- Motion by Alderman Gallagher to remove this item from the table. Second by Alderman Wilkens, and upon voting the motion passed unanimously.
- Director Grzys read the requested action to approve the reallocation of funds.
- Motion by J.P. Walker to request the Common Council to approve the reallocation of funds from 2001/2002 design of Parkwood Lane Drainage Improvements and from 2001/2002 design of Underwood Creek Drainage Improvements to the construction of Buena Park Subdivision Storm Water Improvements (Account 4-252-580). Second by Alderman Gallagher, and upon voting the motion passed unanimously.

Item SW 24-03 Storm Water Budget Discussion

Not discussed due to lack of time prior to the Council meeting.

Item 25-03 Communication from Marquette Dr Residents

- Eric Nitschke said that staff had received a letter from Mary Joas, a resident at 12635 W. Marquette Drive referring back to when she spoke publicly. She listed 2 questions: 1. When is the City of New Berlin going to do something about the problem and 2. By what means are they going to deal with the problem. Mr. Nitschke stated had written communication to the residents offering to share the cost of concrete invert based upon the findings of the analysis and design work. He also stated that the Street Department had been out to the area in question several times and had tried to eliminate the problem. For this reason, and the analysis that was done by Staff, Mr. Nitschke feels there is justification for sharing the cost of the invert.
- Alderman Wilkens asked what the cost share would be. Mr. Nitschke stated that it would be a 50/50 split between the City and the residents. Alderman Wilkens said that one house in

particular was pumping out a lot from their sump pump into the ditch and the resident next door altered the flow. He added that if we had tried repairing it before, he has trouble spending more money.

- Mayor Wysocki suggested that the committee make a site visit to see the problem.

Motion to adjourn by Alderman Wilkens. Second by J.P. Walker. Upon voting the motion passed unanimously. Meeting adjourned 6:37 pm.