

Meeting Minutes
Storm Water Committee Meeting
Department of Public Works
March 14, 2019
8:00 am

Chairman Lloyd Palans called the meeting to order at 8:00 am.

The following members were present

Lloyd Palans, Bob Mueller, and Jim Adams

Also present

Councilman John Fox; Anne Lamitola, Public Works Director; Pete Merten, Storm Water Engineer; Mark Koester, Storm Water Engineer; Shelly Benson, Finance Clerk

Members of the public present

Ray Potter (Midpark), Joe Forshaw and Scott Davis (La Hacienda), Steve and Lori Dolan, Pete McGowen and Scott Solsvig (Willow Hill).

Adoption of the Agenda

Chairman Palans asked for a motion to approve and adopt the agenda; Mr. Mueller made a motion to adopt. Mr. Adams seconded the motion. All present were in favor and the motion passed.

Approval of the December 6, 2018 meeting minutes

Chairman Palans asked for a motion to approve the minutes. Mr. Mueller made a motion to approve the minutes as submitted. Mr. Adams seconded the motion. All present were in favor and the minutes were approved.

Public Forum

Mr. and Mrs. Dolan addressed the committee concerning the status of the Willow Hill Infrastructure project. Mr. Palans stated Pete Merten would address his concerns in the project status update.

Mr. Pete Merten reviewed the following for the committee:

Storm Water Management Program/2019 Five Year Implementation Program

A. Master Plan Update

Ordinance No. 2137 Sec. 2-323 requires that the "Storm Water Master Plan shall be updated at regular intervals, but not less than once every three years or as approved by City Council, under the direction of the [Public Works] Director, under contract with a qualified professional services provider or utilizing internal resources." Sec. 2-326 requires that "Each [masterplan] project shall be reevaluated by the Committee not less than every three years." 2019 is three years since the original 2016 Masterplan was prepared.

Complaint data compiled by Public Works since publishing the 2016 Masterplan will be entered into the geographic information system (GIS) database. Information associated with the five projects currently under design will be purged from the GIS database. Using GIS, an update identifying problem areas City-wide having the highest statistical need will be made. The result will be an updated map of weighted problem point density (aka, Heat Map).

Clustering includes the combining of deficiencies identified from the conveyance system evaluation that are in the vicinity of the neighborhood being studied, or that are an integral part of the problem solution.

The Director shall propose projects to be included in the Storm Water Master Plan. "The Committee [SWAC] shall review the [updated] plan in open session and shall seek input from any and all agencies, groups or individuals as necessary to evaluate the [updated] Storm Water Master Plan and revise it as necessary. All affected property owners shall be informed of this review at least one (1) week prior to the session through notice given by first class mail. Upon solicitation of public input, the Committee [SWAC] may alter, adopt or reject the benefit calculation for placement in the Program."¹

Considering that the cost estimates for the current Masterplan are in 2016 dollars, those costs should be updated to 2019 dollars. The update will be accomplished by applying the RS Means Historical Cost Index [multiplier] to the cost for each project currently in the Masterplan.

The Heat Map update will be performed by HR GREEN under their open-end/work order contract with the City. The GIS is maintained by Midland GIS who will update the database. Pending the results of the Heat Map update, the remaining work will be performed by Public Works Staff.

B. Implementation Plan Preparation

Ordinance No. 2137 Sec. 2-328 requires that "The committee shall develop an updated implementation plan [report] annually by August 1 which plan shall be presented to the City Council as a part of its annual budgeting process."

Ms. Lamitola inquired if 3 years is too short of a time to require this review since the City Council didn't actually approve this ordinance until July 2017. She stated this process could delay current projects and instead offered an option of reviewing and possibly amending the ordinance to require a review every 4 years.

Storm Water Management Program/2018 Five Year Implementation Program

A. December 6th 2018 MSD Meeting

Ladue Public Works staff met with John Grimm and John Alexander/ MSD Plan Review; and with Rebecca Losli and Jeffrey Riepe/MSD Planning. The purpose of the meeting was to introduce the five projects currently under design to MSD; to discuss the challenges

¹ Ladue Code Chapter 2 Article X. – STORM WATER CONTROL PROGRAM Sec. 2-323 – Benefit Calculation and Storm Water Master Plan, paragraph 3.

being encountered; to pose policy questions; and to discuss possible variances to the MSD Rules & Regulations.

Initial MSD conceptual reviews will be done under a “no fee” Municipal Project Record submittal electronically. They were not willing to allow or commit to MSD Rules & Regulations variances at this time; but committed to work with us on a case by case basis. New and existing MSD facilities directly impacted (ie, a sanitary sewer relocation) will require permanent easement acquisition. Above ground detention can be operated and maintained by a private subdivision; below ground detention will need to be operated and maintained by the City of Ladue. Storm water pump stations are not an option. An increase in water volume over and above what is now tributary to a sinkhole is not allowed.

MSD has a project on the books for Daniel Road that eliminates scope from the Deerfield-Wakefield project.

The meeting outcome was positive and succeeded in creating a working relationship between the City of Ladue and MSD.

B. Project Status Update

1. Financial Summary

For the five projects currently under design, to date approximately 50% of the Stage “A” budget has been expended. All in all, the individual tasks have been accomplished on budget thus far. Easements are the area of risk that may be problematic. Because of the nature of the way the subdivisions were originally platted (ie, lot property lines are located at the centerlines of roads), there likely will be a greater number required than originally planned for at Willow Hill, Babler and possibly Deerfield-Wakefield. Roadways are not in a common ground dedicated to subdivision trustees, MSD or the City for utilities.

2. Deerfield-Wakefield Stormwater Infrastructure Project (1601.01)

A meeting was held with the Wolfsberger’s on February 26th about partnering with the City to construct a detention facility at #47 Deerfield Road; a property parcel that they own. Two options were presented: an above ground detention basin, and a below ground detention facility. Alternate evaluation has concluded that it is imperative to provide a large volume storm water detention facility within the project area to reduce the size of an overflow outlet tunnel to Deer Creek and to mitigate downstream impacts thereto.

As reported previously, the results of the geophysical sinkhole investigation are encouraging. We are optimistic that by enhancing drainage through the sinkholes by incorporating green infrastructure techniques, more flow can drain through the sinkholes thus reducing the conveyance network pipe sizes needing to be installed. The current plan is to do sinkhole enhancement in conjunction with stormwater detention.

Once we have an answer regarding the possibility of a detention facility located at #47 Deerfield Road, the evaluation of project construction alternates concludes. Our goal

is to be at that point no later than by the end of March after which a Public Information Meeting will be held to present a refined design concept for all phases to stakeholders. Notifications will be sent out at least two weeks prior to the meeting.

After the meeting assuming stakeholder acceptance, preliminary design/construction plan prep for all phases will proceed, including submittals to regulatory agencies (ie, MSD) and utility service providers for their review, culminating around the 1st of September 2019. Easement acquisition then follows; given the number to be obtained, we anticipate that could take six to nine months to complete. Once easements are acquired final design of the first phase begins with the goal to take construction bids in the summer of 2020. We still anticipate constructing the project in three phases over the next ten years.

3. Babler Lane Stormwater Infrastructure Project (1602)

A Public Information Meeting was held on January 29th to present a refined design concept to stakeholders.

Preliminary design/construction plan prep and submittals to regulatory agencies (ie, MSD) and utility service providers for their review, could culminate around the 1st of June 2019. Easement acquisition then follows; given the number to be obtained, we anticipate that could take three to six months to complete. Once easements are acquired final design begins with the goal to take construction bids in the spring of 2020.

4. South Tealbrook Drive Stormwater Infrastructure Project (1605)

Preliminary construction plans were submitted to MSD for conceptual review on January 31st. Subsequently MSD comments were received on February 21st. Plan revisions are underway with the goal to re-submit to MSD on or before March 8th.

In addition, plan submittals were made at the same time to utility service providers for their review.

After MSD has completed its second review, easement acquisition will follow; given the number to be obtained, we anticipate that should take at most three months to complete. Once easements are acquired final design begins with the goal to take construction bids in the fall of 2019.

5. Willow Hill – Reroute Along Road Infrastructure Project (1614A)

A meeting was held with Willow Hill Subdivision Trustees to provide a project update and to explore options for stormwater detention storage to be located in the subdivision with operation and maintenance by the subdivision. The discussion conclusion is that a basin located in the subdivision is not feasible; that the downstream subdivision area that currently ponds, and that will continue to pond, will need to be managed by works associated with the existing North McKnight Road culvert within City right-of-way to manage runoff.

The design consultant, HR GREEN, is in the process of preparing preliminary construction plans with the goal to submit to Public Works by March 8th.

After completed MSD reviews, easement acquisition will follow; given the number to be obtained (18), we anticipate that could take three to six months to complete. Once easements are acquired final design begins with the goal to take construction bids in the spring of 2020.

6. Robin Hill Lane - McKnight Lane Bank Stabilization Project (1618)

Preliminary construction plans were submitted to MSD and utility service providers for conceptual review on January 31st. MSD comments were received on March 5th. Plan revisions will be made and will be re-submitted to MSD.

After MSD has completed its second review, easement acquisition will follow; given the number to be obtained, we anticipate that could take three to six months to complete. Once easements are acquired final design begins with the goal to take construction bids in late Fall 2019.

Small Project Storm Water Grant Program

A. Program update

To date seven applications have been filed for a total request of **\$87,682.78**:

- Of those seven, one is complete with a disbursement of **\$10,350.00** in 2018 funds;
- One is on the March 14th agenda for the Committee to consider approval of **\$19,955.78** in 2019 funds; and
- Of the remaining five, one application has been withdrawn; one requires completion of an ancillary agreement with a neighboring property; two are seeking plan approval; and one is inactive.

To date a total of **\$10,350.00** in City funds have been disbursed under the program.

B. Application #181128-1: Peter & Meredith Perkins #12 Robindale Drive

The Perkins' have completed and fully executed a grant application requesting reimbursement from the City of Ladue in the amount of **\$19,955.78**.

The property contains a stream that discharges from a 54-inch diameter culvert under Robindale Drive. The stream is a tributary to Black Creek. The existing house has been torn down and reconstructed. A second tributary flows along the south property line.

Construction began in August 2018 and was recently completed.

The SMP database lists the property as having structures threatened by creek erosion. The SMP Masterplan Larkdale-Robindale Bank Stabilization (1622) project is identified, but not scheduled. The project is ranked 12th out of 55 projects listed in the 2018 Five-Year Implementation Plan.

Note that the #12 Robindale Drive project reduces the Masterplan scope of the SMP Masterplan project Larkdale-Robindale Bank Stabilization (1622). Evaluation of the Masterplan under this year's five-year implementation plan preparation no doubt will change the SMP project's benefit: cost ratio and ranking. In effect the Perkins have made an approximate \$20,000 third party contribution accelerating completion of a portion of the master planned work and accelerating expenditure of program funds by the City.

Public Works recommends favorable consideration by the Committee of the application for **"acceptance with funding available"**. The project alleviates chronic streambank erosion at a location that is not likely to be addressed by the SMP project for a long time.

If approved by the Committee, and since the reimbursement amount is over \$7,500.00, a request for funding approval will be placed on the agenda for the City Council meeting scheduled for April 22nd 2019.

Mr. Mueller made a motion to approve Public Works recommendation and accept and approve with funding the Perkin's application and request funding approval from City Council for the reimbursement to Mr. Peter and Meredith Perkins of #12 Robindale Drive in the amount of \$19,955.78, Mr. Adams seconded the motion. All voted "aye" in favor of making a recommendation of approval.

MSD Rate Commission Update

Mr. Palans provided the committee with an update on the MSD Rate Commission.

The next meetings are scheduled for May 16, 2019 (if needed), June 3, 2019 and July 10, 2019; all at 8:00 a.m.

Mr. Mueller made a motion to adjourn the meeting, Mr. Adams seconded the motion. All voted "aye" in favor of adjourning. Meeting was adjourned at 10:00am.

Mr. Lloyd Palans, Chairman
Ladue Storm Water Advisory Committee