



The City of Lee's Summit
Final Agenda - Final
Public Works Committee

Wednesday, April 26, 2017

5:00 PM

City Council Chambers

City Hall

220 SE Green Street

Lee's Summit, MO 64063

CALL TO ORDER

ROLL CALL

PUBLIC COMMENTS

APPROVAL OF ACTION LETTER

- A. [2017-1054](#) Approval of the February 23, 2017 Action Letter

BUSINESS

- A. [2017-1051](#) Stormwater User Fees Information

Presenter: Presenter: Dena Mezger, Director of Public Works

- B. [2017-1147](#) Discussion of 5th St. Terrace Project

Presenter: Presenter: Dena Mezger, P.E., Director of Public Works

ROUNDTABLE

ADJOURNMENT

For your convenience, City Council agendas, as well as videos of City Council and Council Committee meetings, may be viewed on the City's Internet site at "www.cityofls.net".

Packet Information

File #: 2017-1054, **Version:** 1

Approval of the February 23, 2017 Action Letter

Issue/Request:

Approval of the February 23, 2017 Action Letter.

Key Issues:

[Enter text here]

Proposed Committee Motion:

I move for approval of the Action Letter dated February 23, 2017.



The City of Lee's Summit

Action Letter

Public Works Committee

Thursday, February 23, 2017

4:30 PM

City Council Chambers

City Hall

220 SE Green Street

Lee's Summit, MO 64063

1. CALL TO ORDER

The February 23, 2017 Public Works Committee meeting was called to order by Chairman Mosby, at 4:34 p.m. at City Hall, 220 SE Green St, in the City Council Chambers. Notice had been provided by posting the meeting notice with a tentative agenda, at least 24 hours in advance of the meeting, at both entrances to City Hall.

2. ROLL CALL

Present: 4 - Chairperson Dave Mosby
Vice Chair Rob Binney
Councilmember Craig Faith
Councilmember Phyllis Edson

3. PUBLIC COMMENTS

None

4. APPROVAL OF ACTION LETTER

- A. [2017-0941](#) Approval of the January 30, 2017 Action Letter

A motion was made by Councilmember Edson, seconded by Councilmember Faith, to approve the January 30, 2017 Action Letter. The motion carried unanimously.

5. BUSINESS

- A. [BILL NO. 17-54](#) AN ORDINANCE AUTHORIZING THE EXECUTION OF AN AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI, AND BURNS AND MCDONNELL ENGINEERING CO, INC. IN THE AMOUNT OF \$207,232.00 FOR PROFESSIONAL ENGINEERING SERVICES FOR WINTERSET WOODS & STERLING HILLS TRUNK SEWER MAIN (RFQ NO. 196-31583). (PWC 2-23-17)

A motion was made by Vice Chair Binney, seconded by Councilmember Edson, to recommend this Ordinance for approval to the City Council. The motion carried with a 3-0

vote (Councilmember Faith recused himself).

- B. [BILL NO. 17-55](#) AN ORDINANCE APPROVING THE INTERGOVERNMENTAL AGREEMENT FOR SANITARY SEWER SERVICE BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI AND THE PRAIRIE TOWNSHIP FIRE PROTECTION DISTRICT, AUTHORIZING THE MAYOR TO EXECUTE THE SAME BY AND ON BEHALF OF THE CITY OF LEE'S SUMMIT, AND AUTHORIZING A ONE-TIME, NON-PRECEDENT SETTING EXCEPTION TO SECTION 6500.F.1.j. OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL TO ALLOW A SANITARY SEWER CONNECTION TO THE CITY'S SANITARY SEWER SYSTEM FROM A LOCATION OUTSIDE THE CORPORATE LIMITS OF THE CITY OF LEE'S SUMMIT, MISSOURI. (PWC 2-23-17)

A motion was made by Councilmember Faith, seconded by Councilmember Edson, to recommend this Ordinance for approval to the City Council. The motion carried unanimously.

- C. [BILL NO. 17-56](#) AN ORDINANCE AUTHORIZING THE EXECUTION OF AN AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI, AND GEORGE BUTLER ASSOCIATES, INC. IN THE AMOUNT OF \$272,114.00 FOR PROFESSIONAL ENGINEERING SERVICES FOR SW JEFFERSON ST (PERSELS RD TO OLDHAM PKWY) (RFQ NO. 419-32272). (PWC 2-23-17)

A motion was made by Vice Chair Binney, seconded by Councilmember Edson, to recommend this Ordinance for approval to the City Council. The motion carried unanimously.

- D. [BILL NO. 17-57](#) AN ORDINANCE APPROVING THE AWARD OF BID NO. 405-32472-16 FOR THE SE 7TH TERRACE TRAFFIC CALMING PROJECT TO FREEMAN CONCRETE CONSTRUCTION, LLC. AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR THE SAME IN THE AMOUNT OF \$34,826.00. (PWC 2-23-17)

A motion was made by Vice Chair Binney, seconded by Councilmember Edson, to recommend this Ordinance for approval to the City Council. The motion carried unanimously.

- E. [BILL NO. 17-58](#) AN ORDINANCE APPROVING THE AWARD OF BID NO. 40432472-2C FOR THE FY2017 CURB REPAIR 2 PROGRAM TO FREEMAN CONCRETE CONSTRUCTION, L.L.C. AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR THE SAME IN THE AMOUNT OF \$722,346.60. (PWC 2-23-17)

A motion was made by Vice Chair Binney, seconded by Councilmember Faith, to recommend this Ordinance for approval to the City Council. The motion carried by a 3-1 vote (Chairman Mosby voted "No").

F. [2017-0950](#) Lee's Summit Solid Waste History

Chairman Mosby moved this presentation to the March meeting agenda.

G. [2017-0913](#) Stormwater Funding Options

Ms. Dena Mezger, Director of Public Works, gave a presentation on funding options for stormwater projects. She began with a brief status update of the discussions; established prioritized stormwater program goals; reviewed level of service scenarios and selected Scenario 2 as the target for funding an ongoing program; reviewed funding options and focused on pros and cons of three funding options: CIP sales tax, use tax and utility/user fee; and recommended inclusion of approximately \$25M in stormwater projects in CIP Sales Tax renewal which was approved by Council and will be on the April 4 ballot. She reported the user fees used by other Missouri and Kansas Communities.

Committee members asked clarifying questions.

There was a consensus to pursue the user fee and to bring back further details about how comparable cities are handling stormwater funding.

H. [2017-0991](#) Tonnage Report

Mr. Chris Bussen, Solid Waste Superintendent, gave a brief overview of the landfill tonnage report. The average tonnage for the first eleven months of the contract with Summit Waste Systems (HES) was 376 tons per day; the tonnage for the previous twelve months when the City operated the Landfill was 409 tons per day.

Chairman Mosby asked to have the graph changed to a line graph.

6. ROUNDTABLE

Chairman Mosby directed staff to have a stormwater master plan added as a discussion item to an agenda after April 4. He mentioned an inquiry by a City Councilmember regarding public notice signs. Ms. Dena Mezger suggested sending that topic to CEDC for discussion. Chairman Mosby then asked if there is a list of when presentations will be given on the CIP sales tax renewal and asked to have it sent to the whole City Council. The Public Works Committee meetings will be moved to the third Tuesday of each month at 5:00 p.m.

Mr. Chris Bussen, Solid Waste Superintendent made a few announcements. RecycleFest will be held from 9 a.m. - noon on April 29 in the parking lot at City Hall. The contractor (Heartland Environmental Service) that is running the landfill will be increasing fees to use the landfill. The Mid-America Regional Council will be giving grants to purchase recycling containers.

Public Works Committee

Action Letter

February 23, 2017

The City of Kansas City, Missouri opened a recycling center at 71 Hwy and Red Bridge; it replaced their location on Bannister Road that closed due to the Cerner Development.

Ms. Dena Mezger reported that there has been some progress on options with the North Recycling Center and an effort will be made to bring that information to the Committee meeting next month. Also, MoDOT took bids on the 291 & 50 Hwy interchange on Friday; the low bid was quite a bit lower than estimated.

ADJOURNMENT

The February 23, 2017, Public Works Committee meeting was adjourned by Chairman Mosby at 6:08 p.m. at City Hall, 220 SE Green Street, City Council Chambers.

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Packet Information

File #: 2017-1051, **Version:** 1

Stormwater User Fees Information

Issue/Request:

Information on how communities determine stormwater user fees

Key Issues:

*At Feb. 23 PWC meeting committee chair requested additional information on how communities determine stormwater user fees

*Attached table is a summary of processes used by area cities that have established stormwater user fees to determine fees for various types of properties

Background:

During the previous committee meeting a list of area cities with dedicated stormwater funding programs was presented along with the basic residential fees. During discussion, the committee chair asked for additional information on how the cities with user fees determine those fees, particularly for non-residential properties. The attached table is a summary of those methodologies.

Presenter: Dena Mezger, Director of Public Works

Recommendation: N/A

Committee Recommendation: N/A

LS

Stormwater User Fees

Public Works Committee
April 18, 2017

Status of Discussions

- ◊ PWC has requested additional information on communities in the region with dedicated stormwater funding or fees
- ◊ Information for this discussion has been gathered from
 - ◊ Olathe, Topeka, Lawrence, Lenexa, Overland Park and Wichita in Kansas
 - ◊ KC, Columbia and Arnold in Missouri

Equivalent Units

- o The Equivalent Residential Unit (ERU), sometimes called the Equivalent Dwelling Unit (EDU), is the area of impervious surface on a “typical” single-family residential lot.
- o Fees for non-residential/commercial properties are often calculated based on the number of ERUs of impervious area on each parcel

Other Communities

- o Several different approaches and methodologies
 - o Majority calculate commercial fees based on converting impervious area to ERUs
 - o Two have impervious area rates per 100 or 500 sq ft
- o Refer to table attached to presentation

Required Revenue

- o To Fund Scenario #2 (based on 2016 costs)
 - o \$1.495 M in annual funding at start (will need to increase over time as costs increase)
 - o 11.9 FTEs
 - o Includes routine maintenance and inspection, construction of small projects, system repairs, regulatory compliance, design and project management
 - o \$0.567 M in one-time funding
 - o Nine trucks/pieces of equipment

Community	Residential Fees	Equiv. Res. Unit (ERU) Area (Sq. Ft)	Method of Determining Commercial Fees	Approx. Annual Revenue from Fees	Comments
Olathe, KS	1 (\$5.66/mo.)	ERU not defined	Schedule of fees based on Gross Parcel Area	\$4M	In process of changing methodology to impervious area converted to ERUs
Topeka, KS	3 (\$2.75-\$6.65/mo.)	2,016	Impervious Area converted to ERUs	\$6.65M	
Lawrence, KS	7 (\$1.52 - \$10.30/mo.)	2,366	Impervious Area converted to ERUs	\$3.1M	
Kansas City, MO	\$0.50/500 SF of impervious area	ERU not defined	\$0.50/500 SF of impervious area	\$13M	All fees based on same methodology
Arnold, MO	1 (\$3.00/mo.)	1,750	Impervious area calculated based on gross parcel areas x runoff coefficient; ERUs = calculated impervious area/1750 SF	\$0.6M	
Wichita, KS	1 (\$2.00/mo.)	2,139	Impervious Area converted to ERUs	\$15M	
Columbia, MO	4 (\$1.02-\$2.11/mo.)	ERU not defined	Larger of \$6.25 or \$0.063/100 SF of impervious area	\$1.9M	
Lenexa, KS	1 (\$30/yr)	2,750	Impervious Area converted to ERUs	\$6M	Additional funding from one-time System Development Charge on new development
Overland Park, KS	ERU fee x No. Of Dwelling units on Property (1 ERU=\$24/yr)	2,485	Impervious Area converted to ERUs	\$4.3M	Additional funding from property tax (0.961 mil levy for stormwater)

Packet Information

File #: 2017-1147, **Version:** 1

Discussion of 5th St. Terrace Project

Issue/Request:

Discuss future action on project.

Key Issues:

- *5th St. Terrace connectivity project, between Bordner and 5th Terr. was approved by Council in early 2016 as part of list for funding from CIP Sales Tax excess revenue.
- *Design contract was approved and survey work began recently.
- *Neighbors around the project area contacted District 1 and District 4 councilmembers concerning the project and a public open house was held to provide information on April 10, 2017.
- *A neighborhood group has requested the project be stopped.
- *The issue was assigned to PWC for further review and recommendation.

Background:

The 5th St. Terrace project involves the construction of approximately 240 feet of roadway and a stream crossing to connect two exiting residential collector streets, Bordner Dr. to the north/west and 5th Terr. to the east. The project was included in a list of potential projects for funding from CIP Sales Tax excess revenue. Discussion with Council on funding philosophy was initiated in July 2015. Direction to staff was to propose a list of projects that included a mix of project categories including traffic capacity, safety, livability/connectivity, and economic development. A follow-up discussion was held at the December 10, 2015 Council meeting to review the proposed project list. Council was provided time to review the list and ask questions or provide feedback. No comments were received prior to the February 2016 Council meeting where the list was approved. The project was included in the 2017-2022 Capital Improvement Plan approved by Council in June 2016.

When area residents became aware of the project, during survey work, council members from both Districts 1 and 4 were contacted. A number of the residents requested to project be stopped and appeared at council meetings to reinforce their request. A public open house was held in city Hall on April 10, 2017 to provide information on the purpose of and the process for selecting the project.

Presenter: Dena Mezger, P.E., Director of Public Works

Project Title: 5th Terrace – Country Lane to Greenridge Drive

Type: Bridges, Streets & Signals

Activity #41632272

Project Description

This project will construct a portion of 5th Terrace, a residential collector, between Country Lane and Greenridge Drive. The project will include approximately 300 feet of roadway, sidewalks and a culvert/bridge for the road to cross a stream way. Sidewalk improvements should extend beyond the approximate 300 feet of roadway construction to connect with existing sidewalk and complete nearby gaps in the sidewalk network.

Project Purpose

This project will significantly improve access throughout the area as an alternate route to and from Todd George Parkway to the east for many residents west of the creek. The existing intersection of 5th Terrace and Todd George Parkway is traffic signal controlled, but underutilized considering the gap in roadway connectivity. Prairie View Elementary is located at the intersection of 5th Terrace and Todd George Parkway too. Residents east of the creek will also have new access to Langsford Road and M-291 Highway. Access to Miller J Fields Park Facility located west of the creek will be improved. This livability project provides a more complete road network with new opportunities for active living, community, and better access for everyone, emergency services and school transportation included. This roadway gap would not otherwise be constructed as normal through development activity due to the mature surroundings of constructed subdivisions.

Estimated Schedule

Design and Right of Way Acquisition	2016
Construction	2017

Funding Sources

CIP Sales Tax Renewal	\$920,000
Total Lifetime Budget	\$920,000

Estimated Annual Operating and Maintenance

\$9,500



LEE'S SUMMIT MISSOURI

5th Terrace Connection Frequently Asked Questions (FAQs)

Background

The 5th Terrace connection has been planned since the subdivisions in that area were developed in the 80s and 90s. Both SE Bordner Drive and SE 5th Terrace were built as collectors in anticipation of a future connection between the two. Even though the connection was required and supported by good community planning, the original developers were relieved of the responsibility of completing the connection at that time.

The 5th Terrace connection is one of several other connectivity projects approved by City Council in January 2016, and formally adopted in June 2016 as part of the FY2017-21 Capital Improvement Plan (CIP). These projects are all funded by savings in the 2007 CIP Sales Tax program.

What is the purpose of this project?

The purpose of the project is to provide neighborhood road connectivity with increased livability amenities and safety. The project connects multiple subdivisions, a City park, elementary school, etc. The project includes approximately 300 feet of roadway, sidewalks and a culvert/bridge for the road to cross a stream way. Sidewalk improvements will extend beyond the roadway construction to connect with existing sidewalk and complete nearby gaps in the sidewalk network.

How will this project impact:

- **Traffic**

The connection is expected to provide better neighborhood connectivity for all neighborhoods bound by M-291 Highway to the west, Langsford Road to the north, Todd George Parkway to the east, and US 50 Highway to the south. Traffic conditions are anticipated to be similar to other residential collectors such as Brentwood Drive, 3rd Street (east of Todd George), Vista Drive and 5th Terrace (east of M-291 Hwy).

- **Property values**

Livability improvements such as sidewalks are generally viewed as positive impacts to neighborhoods; however, the City is not aware of any conclusive studies that predict market impacts of public infrastructure projects on residential streets.

- **Safety**

The connection will increase both resident and EMS access, reduce EMS/Fire response, reduce resident time to nearby emergency services/ER/hospital, and eliminate barriers for safer bicycle and pedestrian travel.

- **Crime**

Crime prevention through environmental design (CPTED) is anticipated with this project. Creating the connection will increase visibility in the area and provide a greater possibility for natural surveillance, which is a deterrent to criminal activity.

- **School Transportation**

The connection will provide a safer pedestrian route for children attending Prairie View Elementary. It will provide new opportunities for students to walk or bike to school. It will allow students in nearby neighborhoods to have a more direct route to and use of the signalized crossing of Todd George Parkway. In addition, the connection provides greater and more efficient access for bus routes, and parents who choose to drive their children to school.

- **Other services**

The connection will generally provide more efficient routing for services such as snow removal, trash hauling, mail delivery, etc.

How was right-of-way acquired for this project?

The rights-of-way for this road were included in the plats for the subdivisions, and the City acquired the last of the required right-of-way for the connection in 2000.

How is this project funded?

This project is funded with remaining 2007 **Capital Improvement Sales Tax revenue**, which currently allows for the design, (re)construction, repair and maintenance of streets, roads and bridges in the City.

Project savings from six major roadway projects resulted in a fund balance in the CIP Sales Tax fund, and the funding philosophy for the remaining balance was discussed with City Council beginning in July 2015. Council direction was a “blended” approach to project prioritization, which included projects of various transportation types along with a variety of benefits including safety, capacity/operation, livability or economic development. A list of projects that met these goals was requested by City Council. The City Council concurred with the recommended list of projects and proposed no changes. Ultimately, these projects were incorporated into and approved as part of the 2017-2022 CIP.

What is the general timeline for the project?

The contract to begin design work was approved by City Council on February 9, 2017. As such, engineering design work began on February 16, 2017. The first phase of design work will be data collection, field surveys and hydraulic modeling of the stream. Field survey work is currently underway and is expected to be complete by mid-April.

The next step will be conducting watershed analysis and hydraulic modeling, which will take place from mid-April through early June 2017. After completing the field surveys and modeling, detailed design work for the street and stream crossing will take the remainder of the year. Residents would be engaged in the process when preliminary design is completed. Depending on the time for FEMA to review and approve the hydraulic modeling, construction is currently expected to begin in Spring 2018.