

## Legislation Details (With Text)

<b>File #:</b>	BILL NO. 17-93	<b>Name:</b>	
<b>Type:</b>	Ordinance	<b>Status:</b>	Passed
<b>File created:</b>	4/3/2017	<b>In control:</b>	City Council - Regular Session
<b>On agenda:</b>	4/20/2017	<b>Final action:</b>	4/20/2017
<b>Title:</b>	AN ORDINANCE AUTHORIZING THE EXECUTION OF ADDENDUM NO. 1 TO AN AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI AND BURNS AND MCDONNELL ENGINEERING COMPANY, INC. FOR THE COMPLETION AND REPORTING OF THE CEDAR CREEK BASINS 16 AND 20 PRIVATE I&I PILOT STUDY IN THE AMOUNT OF \$55,719.00 AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AND EXECUTE AN AGREEMENT FOR THE SAME WITH BURNS & MCDONNELL ENGINEERING COMPANY, INC. BY AND ON BEHALF OF THE CITY OF LEE'S SUMMIT, MISSOURI.		
<b>Sponsors:</b>	Water Utilities		
<b>Indexes:</b>			
<b>Code sections:</b>			
<b>Attachments:</b>	1. Ordinance, 2. Exhibit A, 3. Addendum No 1, 4. Fee & Cost Chart, 5. Map, 6. I&I Reduction Program (Authorizing Ordinance)		

Date	Ver.	Action By	Action	Result
4/20/2017	1	City Council - Regular Session	adopted and numbered	Pass

AN ORDINANCE AUTHORIZING THE EXECUTION OF ADDENDUM NO. 1 TO AN AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI AND BURNS AND MCDONNELL ENGINEERING COMPANY, INC. FOR THE COMPLETION AND REPORTING OF THE CEDAR CREEK BASINS 16 AND 20 PRIVATE I&I PILOT STUDY IN THE AMOUNT OF \$55,719.00 AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AND EXECUTE AN AGREEMENT FOR THE SAME WITH BURNS & MCDONNELL ENGINEERING COMPANY, INC. BY AND ON BEHALF OF THE CITY OF LEE'S SUMMIT, MISSOURI.

### Key Issues:

- In 2008 City Council approved a private inflow and infiltration reduction pilot study in the Cedar Creek water shed, sub-basins 16 and 20.
- A series of inspections and reports have been completed on the majority of the structures located within the basins.
- Based on the inspections, work orders were created to remedy sources of storm water entering into the sanitary sewer system located on private property.
- Each property, where storm water connections were identified was approached and asked to make repairs for which they would then be reimbursed.
- 919 of 973 properties in CC-16 and CC-20 were inspected
- 128 of the 919 properties inspected had defects
- 97 of the 128 properties with defects received letters (the other 31 properties needed re-evaluation before receiving letters)
- 44 of the 97 properties receiving letters have corrected the I&I connection

- An evaluation of the effectiveness of these repairs has yet to be completed.
- In order to finalize this pilot I&I reduction program and develop a recommendation on how to proceed, post construction flow monitoring and other efforts taken during the pilot study need to be evaluated.

Proposed City Council Motion:

FIRST MOTION: I move for a second reading of AN ORDINANCE AUTHORIZING THE EXECUTION OF ADDENDUM NO. 1 TO AN AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI AND BURNS AND MCDONNELL ENGINEERING COMPANY, INC. FOR THE COMPLETION AND REPORTING OF THE CEDAR CREEK BASINS 16 AND 20 PRIVATE I&I PILOT STUDY IN THE AMOUNT OF \$55,719.00 AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AND EXECUTE AN AGREEMENT FOR THE SAME WITH BURNS & MCDONNELL ENGINEERING COMPANY, INC. BY AND ON BEHALF OF THE CITY OF LEE'S SUMMIT, MISSOURI.

SECOND MOTION: I move for adoption of AN ORDINANCE AUTHORIZING THE EXECUTION OF ADDENDUM NO. 1 TO AN AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI AND BURNS AND MCDONNELL ENGINEERING COMPANY, INC. FOR THE COMPLETION AND REPORTING OF THE CEDAR CREEK BASINS 16 AND 20 PRIVATE I&I PILOT STUDY IN THE AMOUNT OF \$55,719.00 AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AND EXECUTE AN AGREEMENT FOR THE SAME WITH BURNS & MCDONNELL ENGINEERING COMPANY, INC. BY AND ON BEHALF OF THE CITY OF LEE'S SUMMIT, MISSOURI.

Background:

On January 4, 2007, the Wastewater Master Plan (WWMP) was adopted by the City Council. The WWMP provided an overview of the City's sanitary sewer system and provided capital improvement recommendations. These recommendations included the reduction of I&I and improvements to the Cedar Creek Interceptor in order to minimize the risk of continued sanitary sewer overflows and provide capacity for future development.

In 2007, the City engaged Archer Engineers to perform a Pilot Sanitary Sewer Evaluation Study (SSES) for Basins CC-16, CC-20 and WP-6 to further evaluate the basins. The purpose of the study was to identify and quantify the sources of I&I and provide detailed cost estimates for projects determined to be necessary to reduce I&I. The findings of the pilot study have been presented and discussed at previous council meetings.

In January of 2009, the City Council awarded the design and engineering of the Cedar Creek Interceptor to HDR/Archer Engineers. The Cedar Creek Interceptor improvement project is scheduled for bid in 2009 with construction completed the spring of 2010. This project included an evaluation of cost alternatives related to I&I reduction for the sizing of the interceptor.

At a Council work session on February 12, 2009, the benefits of addressing private I&I were outlined as they related specifically to the required capacity of the Cedar Creek Interceptor project that was currently under design. At that time, City Council directed staff to draft an ordinance that established a pilot reimbursement program in the Cedar Creek sub-watersheds (CC-16 and CC-20). That ordinance amended Chapter 32 of the Code of Ordinances by establishing an I&I reduction program applicable to properties located in the CC-16 and CC-20 water sub-basins, and clarified that sources of storm/groundwater may not be interconnected with the sanitary sewer system. Council also directed City staff to move forward with building inspections, evaluation and repair of remaining private I&I sources in the two Cedar Creek priority basins.

Now that many of the private plumbing defects that were allowing storm water to enter into the public

sanitary sewer system have been repaired, staff is requesting approval to engage Burns and McDonnell to provide for post construction flow monitoring in the pilot I&I area and provide final report with the findings and recommendations related to the effectiveness of the work completed and recommendations the program should consider as it moves forward.

Presenter: Jeff Thorn, P.E. Assistant Director of Engineering Services, Lee's Summit Water Utilities

Staff Recommendation: Staff recommends approval of AN ORDINANCE AUTHORIZING THE EXECUTION OF ADDENDUM NO. 1 TO AN AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI AND BURNS AND MCDONNELL ENGINEERING COMPANY, INC. FOR THE COMPLETION AND REPORTING OF THE CEDAR CREEK BASINS 16 AND 20 PRIVATE I&I PILOT STUDY IN THE AMOUNT OF \$55,719.00 AND AUTHORIZING THE CITY MANAGER TO ENTER INTO AND EXECUTE AN AGREEMENT FOR THE SAME WITH BURNS & MCDONNELL ENGINEERING COMPANY, INC. BY AND ON BEHALF OF THE CITY OF LEE'S SUMMIT, MISSOURI.

Committee Recommendation: Public Works Committee meetings were cancelled in March and April by Chairman Mosby so this item is moving straight to City Council.