

## Fwd: DRAFT LFIT (formerly known as KY Wired) fact sheet

Blackwell, Rick

**Sent:** Tuesday, June 20, 2017 4:41 PM

**To:** Helton, Jessamyn

**Attachments:** image001.png (11 KB) ; ATT00001.htm (435 B) ; LFIT Fact Sheet DRAFT 201~1.docx (17 KB) ; ATT00002.htm (232 B)

Sent from my iPhone

Begin forwarded message:

**From:** "Simrall, Grace" <[Grace.Simrall@louisvilleky.gov](mailto:Grace.Simrall@louisvilleky.gov)>  
**Date:** June 20, 2017 at 3:49:18 PM EDT  
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**Subject:** DRAFT LFIT (formerly known as KY Wired) fact sheet

Dear all,

Attached is a fact sheet for additional clarification on the LFIT project. Thanks!

Grace Simrall  
Chief of Civic Innovation and Technology  
Louisville Metro Government  
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Louisville, KY 40202  
(502) 574-3624

## Project #44: ~~Kentucky Wired~~ Louisville Fiber Information Technology (LFIT)

The \$3.8M budgeted by Metro Council is a good start, but receiving the full \$5.4M will allow us to confidently build all 117 miles of new fiber.

Building this Metro owned infrastructure has many benefits.

<b>Cost Savings and Bandwidth Increase</b>	Immediately connect 31 Metro owned or leased facilities, 18 MetroWatch cameras, 130 traffic signals to higher 1Gbps service that we currently lease lines from private companies
<b>Public Safety</b>	Expand the MetroWatch camera network footprint without requiring new leased lines and enable real-time video surveillance through 1Gbps upload speeds
<b>Invest in Louisville's Future</b>	Fiber optic networks are 30 year technology that spurs innovation and economic development
<b>Enable Smart City Technology</b>	Smart lighting, smart parking meters, intelligent transportation systems, public safety systems
<b>Encourage Competition</b>	Opportunity to lease excess capacity as an open access fiber network to private companies to deploy service more quickly to residents and businesses. There are many variables involved in this process including price setting. It is far too soon to make precise projections regarding the potential scope or estimated revenue possibilities.

We have learned that there are some inaccurate cost estimates that have been provided to Metro Council members (e.g., the West Louisville Fiber Route proposal does not cost \$600,000 per mile) and want to make sure that all are aware of the actual cost estimates of the project. The cost for installing fiber optic cables outdoors per mile is highly variable and Metro's own historical costs from publicly bid fiber installation projects for the past two years have been highly variable.

	<b>KY Wired (state)</b>	<b>LFIT</b>	<b>West Louisville Fiber Route</b>	<b>Cane Run Road Fiber Route</b>
Total Cost Estimate	\$350,000,000	\$3,200,000	\$2,200,000	\$2,774,261
Total Miles	3,400	90	6.6	11.3
Cost Estimate per Mile	<b>\$102,941</b>	<b>\$35,556</b>	<b>\$333,333</b>	<b>\$245,210</b>

We have been told that the West Louisville Fiber Route cost estimates are high. Because we did not pay for a full engineering study (estimated to cost \$100,000), the quote in budget proposal for the West Louisville route reflects some additional contingency funding given the unknowns around construction and make ready in the area. For instance, due to earlier engineering work for another project, we know that the poles are overloaded from 9<sup>th</sup>-18<sup>th</sup> St on Broadway and we will need to either identify existing open or install new conduits. We do not know the state of the poles beyond 18<sup>th</sup> on Broadway.

**By funding the West Louisville Fiber Route at \$100,000 per mile, we put the 6.6 miles in West Louisville at risk.**

An infrastructure investment at scale also allows us to leverage the \$5.4M to receive a one for one match on a submitted US Department of Transportation's Advanced Transportation and Congestion Management Technologies Deployment Initiative grant proposal. This enables us to receive \$5.4M in funding from US DOT to invest in advanced traffic system technologies to improve congestion and traffic safety. **If the funding is cut to \$3.8M, the match is limited to \$3.8M.**