

Department/Project: Traffic impact study for Taylorsville Rd between Blankenbaker Pkwy and Bolling Brook Dr

Additional Signatures

I have reviewed this request for an expenditure of city tax dollars, and have determined the funds will be used for a public purpose.

<u>District #</u>	<u>Council Member Signature</u>	<u>Amount</u>	<u>Date</u>
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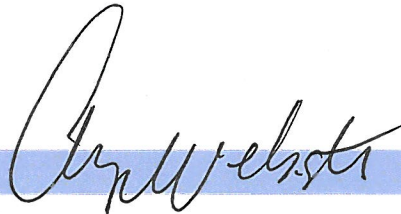
CIF, NDF, MAP OR PAV INTERAGENCY CHECKLIST

Interagency Name: Louisville Metro Public Works

Program/Project Name: Traffic impact study for Taylorsville Rd between Blankenbaker Pkwy and Bolling Brook Dr

	Yes/No/NA
Request Form: Is the Request Signed by all Council Member(s) Appropriating Funding?	Yes
Request Form: If matching funds are to be used, are they disclosed with account numbers in the request form description?	NA
Request Form: If matching funds are to be used, does the amount of the request exclude the matching fund amount?	NA
Request Form: If other funds are to be used for this project, are they disclosed with account numbers in the request form description?	NA
Funding Source: If CIF is being requested, does Metro Louisville own/will own the real estate, building or equipment? If not, the funding source is probably NDF.	NA
Funding Source: If CIF is being requested, does the project have a useful life of more than one year? If not, the funding source is probably NDF.	NA
Ordinance Required: Is the NDF request to a Metro Agency greater than \$5,000? If so, an ordinance is required.	Yes
Ordinance Required: Is the request a transfer from NDF to cost center? If so, is the amount given for the fiscal year \$25,000 or less?	NA
Supporting Documentation: Does the attachment include a valid estimate and description of cost?	Yes

Prepared by:



Date: 08/17/2016

Webster, Angela

From: Webster, Angela on behalf of Benson, Stuart
Sent: Wednesday, August 17, 2016 1:09 PM
To: Brown, Jeffrey E; Benson, Stuart
Subject: RE: Taylorsville Rd TIS

Jeff,

Councilman Benson is okay with the peak hour study. We will get the paperwork started today.

Angela Webster

From: Brown, Jeffrey E
Sent: Thursday, August 11, 2016 11:05 AM
To: Benson, Stuart
Subject: RE: Taylorsville Rd TIS

Reading the scope, it says they will only be conducting peak hour counts. I can have them provide 12-hour counts to determine the exact peak hour and cost should not be much more, but will be closer to \$5,000

Prepare a traffic impact study for Taylorsville Rd between Blankenbaker Pkwy and Bowling Brook Dr to determine the impact additional traffic will have at these intersections. Study shall include updated traffic counts, trip generation and distributions and intersection analysis under several scenarios.

Jeffrey Brown, PE, PTOE

From: Webster, Angela **On Behalf Of** Benson, Stuart
Sent: Thursday, August 11, 2016 9:46 AM
To: Brown, Jeffrey E
Subject: RE: Taylorsville Rd TIS

We would like to move forward with this. Can you send me the scope in writing so that I can get the paper work started.

From: Brown, Jeffrey E
Sent: Wednesday, August 10, 2016 10:33 AM
To: Webster, Angela
Subject: RE: Taylorsville Rd TIS

\$3,500

Jeffrey Brown, PE, PTOE

From: Webster, Angela
Sent: Wednesday, August 10, 2016 10:09 AM
To: Brown, Jeffrey E
Subject: RE: Taylorsville Rd TIS

I am going to review this with Stuart and we will get back to you tomorrow. However, he would also like to know why there is such a disparity between \$5,000 and \$10,000.

Angela Webster

From: Brown, Jeffrey E
Sent: Wednesday, August 10, 2016 9:34 AM
To: Webster, Angela
Subject: FW: Taylorsville Rd TIS

QK4 provided a review of the Traffic Impact Study for the apartment project on Taylorsville Rd. Did you still want a new study prepared? Tom had mentioned cost between \$5,000 & \$10,000 for the study

Jeffrey Brown, PE, PTOE

From: Springer, Tom [<mailto:tspringer@qk4.com>]
Sent: Tuesday, August 09, 2016 3:38 PM
To: Brown, Jeffrey E
Cc: Lukat, Jeremy
Subject: RE: Taylorsville Rd TIS

Jeff. Jeremy and I have looked over the TIS and offer the following comments.

Existing data. for the Bolling Brook Driver / KY 155 intersection the existing turning movement data was collected April 26, 2016. The same for the KY 155/Blankenbaker Parkway intersection is from February 25, 2014 – more than two years earlier. CDM Smith increased the 2014 data to match the 2016 data. While it would have been better to count both intersections on the same day, the methodology is acceptable.

Trip Generation and distribution. The methodology for identifying the amount of and distribution future trips from the 424 apartment units is acceptable. The current (9th Edition) of the ITE Trip Generation Manual was used, and the appropriate land use category of “Apartments (220)” best describes the development. The distribution of the trips to the exiting road network, while subjective task, seems reasonable and defensible.

Analysis. We did not verify or redo the projected build traffic scenario using HSC. However, assuming the analyses are correct, there are some decreases in level of service that are a concern at the Blankenbaker Parkway/KY 155 intersection:

- The KY 155 Eastbound 2020 AM Build LOS (No Build vs. with Build, respectively) decreases from C with 30.4 seconds of delay to D with 43.9 seconds of delay
- The KY 155 Eastbound 2020 PM Build LOS (No Build vs. with Build, respectively) decreases from C with 24.4 seconds of delay to D with 36.4 seconds of delay
- The Blankenbaker Parkway Southbound 2020 PM Build LOS is E for No Build and with Build, but the delay increases from 68.8 second to 78.2 seconds.

We do not know if any signal timing optimization was considered, nor if any adjustments to the signal or geometry of the intersection could be made to mitigation the anticipated impacts. The TIS does not address any options to the intersection.

Recommendations. The addition of Left Turn and Right Turn lanes into the development appears to mitigate the impacts to the through movements on KY 155. As stated above, no recommendations are proposed for the KY 155/Blankenbaker Parkway intersection.

As a side note, TISs often include volume/capacity data to supplement the LOS analysis. That is lacking and may be required by KYTC.

Tom Springer

From: Brown, Jeffrey E [<mailto:Jeffrey.Brown@louisvilleky.gov>]

Sent: Monday, August 08, 2016 12:55 PM

To: Springer, Tom

Subject: Taylorsville Rd TIS

We need a cost estimate to prepare a traffic impact study for a proposed multi-family site on Taylorsville Rd. The attached study was prepared by the applicant but we'd like an independent study prepared to verify the conclusions. Could you provide a quote for the traffic impact study with the same scope as the attached and an alternate for updated traffic counts?

Jeffrey Brown, PE, PTOE

Assistant Director of Public Works

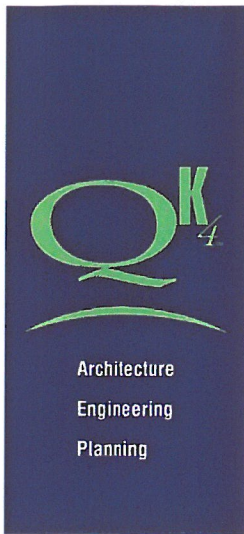
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Ph. 502-585-2222
www.qk4.com

August 10th, 2016

Mr. Jeffrey Brown, PE, PTOE
Assistant Director of Public Works
444 S 5th St, 4th Floor
Louisville, Kentucky 40202

Taylorsville Road Traffic Impact Study

Dear Mr. Brown:

The following scope and fee were put together to address the traffic impacts caused by the development of a proposed 424-unit apartment complex along KY 155 (Taylorsville Road) in Jefferson County.

SCOPE

Data Collection

A peak hour turning movement count would be conducted using our miovision traffic data collection units at the following intersections:

- Taylorsville Rd & Blankenbaker Pkwy
- Taylorsville Rd & Bowling Brook Dr

Trip Generation

Trips for any proposed development in the study area will be generated using the latest version of the Trip Generation manual.

Trip Distribution / Assignment

Existing diverted trips and generated trips will be distributed and assigned based on existing traffic patterns in the study area.

Traffic Analysis

All study area intersections (including the proposed development entrance intersection with KY 155) will be analyzed for three scenarios using the Highway Capacity Software.

1. Existing Conditions
2. Existing Conditions + Background Growth
3. Existing Conditions + Background Growth + Development Traffic

Analysis results including level of service, delay, and v/c ratio by movement will be summarized in report.



Taylorsville Traffic Proposal
August 10th, 2016

Report

A report would be prepared explaining the process and summarizing the findings of the analysis while also recommending improvements to minimize any impacts caused by proposed access point closure.

FEE
\$3,500

This contract is subject to terms outlined in the Metro General Engineering Services (GEC) contract (RFP 3350). We can begin work upon notice to proceed. If you have any questions on this proposal please feel free to call. My number is (502) 719-7932.

Thanks,

Jeremy Lukat, PE

File ID: U:\15850 Metro GEC\15850 Taylorsville Road TIS 8-10-16\Taylorsville Scope Fee 08102016.doc

Helton, Jessamyn

From: Benson, Stuart
Sent: Wednesday, August 17, 2016 3:42 PM
To: Ott, Stephen
Cc: Helton, Jessamyn
Subject: Permission to sign

Jess,

Angela Webster, my legislative assistant has permission to sign a \$3,500 NDF to public works for a traffic impact study and a \$25,000 CIF to planning & design for the Floyds Fork Area Study.

Councilman Stuart Benson