



**ENGINEERING DEPARTMENT**

**Michael G. Lewis**  
Director of Public Works / City Engineer

414/302-8360  
414/302-8366 (Fax)

City Hall  
7525 West Greenfield Avenue  
West Allis, Wisconsin 53214

[www.westalliswi.gov](http://www.westalliswi.gov)  
[mlewis@westalliswi.gov](mailto:mlewis@westalliswi.gov)

## Memorandum

**TO:** Board of Public Works

**FROM:** Michael Lewis, Director of Public Works/City Engineer

**DATE:** June 1, 2016

**RE:** **Communication from the Director of Public Works/City Engineer regarding the request to place street lights along the west side of 85<sup>th</sup> Street instead of the east side.**

At least one resident and the District Aldermen have requested that the street lighting installation be changed from the east to west side of 85<sup>th</sup> Street. We have investigated the additional cost, if any, of changing the original design. As Mr. St. Clair points out in the e-mail below, it will cost an additional \$1,927 because of the need to place one additional light adjacent to Greenfield Avenue.

I believe the issue here is the same as the issue with the mountable curb. Basically, why should the taxpayers pay for accommodating State Fair parking?

**From:** Chris St. Clair

**Sent:** Thursday, May 19, 2016 1:38 PM

**To:** Michael Lewis; Michael May; Gary T. Barczak

**Cc:** Cathleen Probst; Martin Weigel; Daniel Schwartz; Michael Brofka; Brian Block; Peter Daniels

**Subject:** Results-Aldermanic request to redesign street lights-85th Washington to Greenfield

Mike Lewis,

*As you are aware, both Alderman Barczak and Alderman May have requested that the Engineering Dept. redesign the street lighting to be installed as part of the ongoing CIP 2016 Project No. 1. Their specific request was to move the proposed lights that were designed to be placed on the east side of S. 85<sup>th</sup> St. over to the west side.*

*Brian Block and I have worked on this redesign as our time has allowed and we now have a preliminary lighting layout with the lights placed all on the west side of the street.*

*Because the west side of the street has a few more trees, a different layout of driveways, and a different layout of existing and new underground utilities; moving the lights was not just a matter of jumping them over to the other side.*

*In order to keep the lighting levels within our standards, moving the lights to the west side of the road results in each of the 7 originally proposed poles being "shifted" approximately 50 feet to the north. For most of this project's length, this poses no real issue with placement or performance. However, because the lights need to move to the north, and the circuit is fed from the north, the new roadway closest to the intersection of W. Greenfield Ave. would have lighting levels that may be non-standard. This would affect street lighting performance at both #8436 and #8500 W. Greenfield Ave. on S. 85<sup>th</sup> St.*

*I performed nighttime investigations on two evenings on S. 85<sup>th</sup> St. just north of W. Greenfield Ave. in the hopes that light "overflow" from the existing (but not our current standard fixtures) lights on W. Greenfield Ave. would "fill in" this non-standard area. Unfortunately this is not the case. The area in question is the location of the drive entrances for two businesses. I have attached a photo of the area in question. The area about where the dump truck is in the photo will be the most affected.*

*In order to move the street lights over to the west side of S. 85<sup>th</sup> St., I would recommend that an additional street light be added, on S. 85<sup>th</sup> St., around the middle of the property of #8500 W. Greenfield Ave. This additional light would insure consistent lighting levels along the new roadway. The cost break down of this work is:*

<i>Additional Conduit Trenching</i>	<i>\$780</i>
<i>Additional Conduit</i>	<i>\$71</i>
<i>Wire in Conduit</i>	<i>\$11</i>
<i>Wire/Fuses/Connectors in Pole</i>	<i>\$49</i>
<i>New Pole</i>	<i>\$473</i>
<i>New Pole Base</i>	<i>\$121</i>
<i>New LED Fixture</i>	<i>\$422</i>
<i>Total</i>	<i>\$1927</i>

*The above cost, other than the conduit trenching that is a contract item, does not include DPW staff nor equipment time and their associated costs.*

*Please advise me if it is our desire to continue with this redesign. We can finalized Engineering plans and have the changes to the contractor and City forces relatively quickly.*

*I believe that I will need to know what to do here by June 10<sup>th</sup>.  
Chris St. Clair  
Principal Engineer - Field Services  
City of West Allis Engineering Department*