

McDonough Associates Inc. 16634 South 107th Court Orland Park, Illinois 60467-8898 708/226-9261 Fax: 708/226-9345 Www.malengr.com

April 20, 2012

Ms. Karie Friling
Development Services Director
Village of Orland Park
14700 Ravinia Avenue
Orland Park, Illinois 60462

Re:

Proposal for Engineering Study (Phase I) Services - Revised

US 45 (LaGrange Rd.) IDS Update - 153rd St. and 149th St (including 149th St. TIS)

Dear Ms. Friling,

In response to your request, the meeting you had with Mr. Steve Ravenesi and Mr. Tim Werner of our office yesterday, MAI is pleased to present this revised Proposal to the Village of Orland Park to update the Intersection Design Study (IDS) at 149th Street and US 45, update the IDS at 153rd Street and US 45, and to provide a Traffic Impact Study (TIS) for the Intersection of 149th Street and US 45. This proposal includes the request to update the 149th intersection with a second southbound US 45 Left turn to the eastbound 149th Street entrance into Orland Square Mall, and now revised to include analysis of a second left turn lane for westbound 149th to US 45. This proposed work also includes the request to add and look at the impacts of dual left turn lanes from westbound 153rd Street to southbound US 45 and to provide a TIS for the 149th Street and US 45 intersection.

This work will entail updating the intersection plan and profile geometrics, signal timing, traffic updates for each intersection and the complete update of the analysis of trip generators for the TIS at 149th Street and LaGrange Road. This proposal assumes the availability and use of all files of the previously approved IDOT IDS's, as well as any traffic generator information for the surrounding developments from the Village of Orland Park at the 149th Street Intersection.

We propose a lump sum fee for these professional services of \$65,084.00.

These services will commence immediately upon receipt from the Village of the Notice to Proceed and will be completed to submit to IDOT for review as soon as possible. We cannot guarantee the time required by IDOT to complete their review and comments. If you have any questions regarding this proposal, please contact the undersigned. Thank you for the opportunity to be of service.

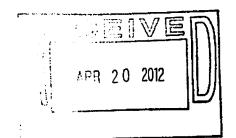
Very truly yours,

McDONOUGH ASSOCIATES INC.

Michael P. Hannemann, P.E.

Sr. Vice President

Encls: Scope of Work



LaGrange Road (US45) Intersection Design Studies at US45 & 149th and US45 & 153rd

Scope of Work Rev 04-20-2012

The scope of work will consist of updating two (2) Intersection Design Studies and preparing a Traffic Impact Study at the intersection of 149th Street at US45. The Village of Orland Park has initiated the request for the geometric and capacity changes in a letter to IDOT on March 08, 2012. The request includes adding a second left turn lane on southbound US45 at 149th Street and adding a second left turn lane on westbound 153rd Street at US45. On 04-20-2012 the proposal was modified to include the analysis of providing dual lefts WB-SB from 149th Street. All work will be performed in full accordance with IDOT standards, procedures, requirements and criteria.

4 0 11-4-4-	sks	Total Man-hours
1.0 Upgate	Data Collection / Gather Information	
	Utilities and Recent Improvements	3 (C)
	Property Delineation and Ownership	
2.0 Early Pr	oject Coordination	
	Establish Design Criteria	8
	Prepare Work Plan	
	Prepare Project Schedule	
3.0 Update	Phase I Field Survey	Not Included
		Hormonyce
4.0 Update	Traffic Analysis & Intersection Design Study	
	24 Hour machine counts	0
	AM Peak Hour Directional Counts	0
	PM Peak Hour Directional Counts	0
	Year 2040 Projected Traffic (CMAP)	p - e - e - e - e - e - e - e - e - e -
	Synchro Report AM & PM	32
	Traffic Signal Warrants	0
	Intersection Design Study Plan Geometrics	7.11 Think 236 Think 1.1
	Intersection Design Study Profile	- 18 48 - 18 18 18 18 18 18 18 18 18 18 18 18 18
	Intersection Auto turn Exhibits	18
5.0 Update	Accident Analysis	
	Compile Accident Reports and Records (most recent three years)	0
	Analysis of Collision Accident Data	0
	Determine Accident Rates and Compare to Statewide Averages	0
	Wet Weather Accident Analysis	0
6.0 Design	Analysis and Identification of Impacts	
	Horizontal Alignment Analysis	0
	Vertical Alignment Analysis	0
	Typical Section Study	0
	Roadway Geometrics, Lanes, Median and Widths	H1374 - 124 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 - 134 -
	Turn Storage Requirements, Tapers and Turn Radii	116
	Retaining Walls, Side slopes and Guardrail vs. ROW Issues	24
	Temporary Construction Easements	112.
	Plan Geometrics for Report Exhibits	0
	Profile Geometrics for Report Exhibits	0
	Cross Section Impact Analysis & Alternatives	
	Determine Right-Of-Way and Easement Requirements	
	Pavement Marking Details	
	Landscaping Issues	
	Embankment, Cuts and Excess Earthwork	0
	Utility Relocations	Half- de 14:16 April 1
	Safety Issues	
	Lighting Issues	0
	Lighting issues	0
	Coordination	
7.0 Village (•
7.0 Village (Meetings and Coordination	16.

LaGrange Road (US45) Intersection Design Studies at US45 & 149th and US45 & 153rd

	aping Issues	Not Included
9.0 Socio-E	conomic Business Establishment Issues	Not Included
		Not included
10.0 Mainte	nance of Traffic and Detour Route Analysis	Not Included
11.0 Draina	no Studios	
I I.V DIGING	ge olddies	Not Included
2.0 Traffic	Impact Studies - at 149th Street Intersection Only	
	Existing Traffic Conditions / Levels of Service	GAL AND AL 80 12 141
	Existing, Proposed and Planned Improvements	24
	Trip Generations	24
	Directional Distributions	24
	Background Traffic Growth	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Site Traffic Assignments	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Alternative Capacity Analysis / Synchro Report	16
	Proposed Traffic Conditions / Levels of Service	
	Conclusions, Impacts and Recommendations	16
	Calculations and Exhibits	
	Signal Warrant Review Summary	1. 11. 11. 11. 12. 11. 11. 11. 11. 11. 1
		Light of Stript Christian (□ the Light of the term
13.0 Structu	ral Studies	Not look do d
		Not Included
14.0 Wetlan	d Delineation, Classification, Mitigation	Not included
15.0 Enviror	nmental Studies	Not Included
	<u></u>	
16.0 Meeting	gs, Coordination and Special Issues	Not Included
	gs, Coordination and Special Issues Involvement	Not Included Not Included
17.0 Public	Involvement	
17.0 Public	Involvement stimate	Not Included
17.0 Public	Involvement stimate Preliminary	Not Included
7.0 Public	Involvement stimate	Not Included
17.0 Public 18.0 Cost E	Involvement stimate Preliminary	Not Included
17.0 Public 18.0 Cost E	Involvement stimate Preliminary Final se Direct Costs	Not Included
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9.0 In-Hous	Involvement stimate Preliminary Final se Direct Costs Printing and Reproductions Preliminary Submittal Xerox Copies Paper Plots PreFinal Submittal Xerox Copies Paper Plots Final Submittal Xerox Copies Paper Plots Meeting Transportation	Not Included

Estimate Total Man-Hours	520
Estimate Average Hourly Wage Rate	\$ 46.00
Multiplier	2.7
Sub-Total	\$ 64,584.00
In-House Costs and Services by Others (see above)	\$ 500.00
Project Total	\$ 65,084.00