



McDonough Associates Inc.
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November 1, 2010

Mr. Edward Wilmes
Director of Public Works
Village of Orland Park
15655 Ravinia Avenue
Orland Park, IL 60462

RE: Proposal for Pre-Phase I Engineering Services
143rd Street and Southwest Highway Intersection

Dear Mr. Wilmes:

McDonough Associates, Inc. appreciates the opportunity to submit for your review and consideration a proposal for Pre-Phase I Engineering services for re-alignment alternatives at the intersection of 143rd Street and Southwest Highway.

McDonough Associates proposes to provide the Village of Orland Park Pre-Phase I Engineering services to study potential alternatives for the re-alignment of the intersection at 143rd Street and Southwest Highway that were not included as part of the original IDOT Phase I study of 143rd Street. Due to the recent removal of commercial buildings in the Northwest corner of the 143rd Street/SW Highway intersection, re-alignment alternatives previously not considered are now possible. McDonough Associates will study and develop new roadway alignment options that the Village of Orland Park can utilize when considering development of a new Phase I and/or IDS at this intersection.

McDonough Associates has prepared a man-hour and cost analysis to complete the engineering services outlined above (See Attached). McDonough Associates has estimated a fee of \$9,938.40 to provide the Village of Orland Park roadway re-alignment alternatives at the intersection of 143rd Street and Southwest Highway. This estimate is based on standard IDOT rates (2.8 multiplier) along with actual costs for all in-house direct costs and outside services. Invoicing will follow standard IDOT billing format.

We propose to perform these services in a deliverable upon request format (DUR) with a task maximum of \$9,938.40 as stated above. If this proposal for engineering services is acceptable, please sign in the



McDonough Associates Inc.

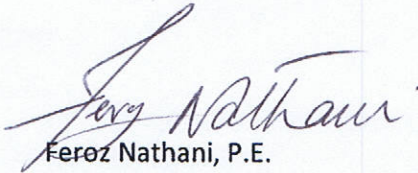
area provided below and return to our office. By signing and returning this proposal, this document will act as our Notice to Proceed.

McDonough Associates appreciates the opportunity to submit this proposal and look forward to providing engineering services to the Village of Orland Park for this project.

If you have any questions regarding this proposal, please contact us at (708)226-9261.

Sincerely

McDonough Associates, Inc.



Feroz Nathani, P.E.

President

Encl: Scope of Services

cc: M. Hannemann S. Ravanesi File

Acceptance by the Village of Orland Park:

Printed Name (Director of Public Works)

Signature (Director of Public Works)

Date

**Phase I Intersection Re-Alignment Study
143rd Street and Southwest Highway
Village of Orland Park**

Scope of Work

The project will consist of preparing a Phase I Intersection Design Study for the potential re-alignment of the intersection at 143rd Street and Southwest Highway. The project will update the recommendations and findings made in the IDOT Phase I Report an IDS for 143rd Street report to reflect the recent clearing of commercial buildings on the NW corner of the intersection. The updated study will look at new alignment possibilities that were not available as alternatives during the original study. All work will be performed in full accordance with IDOT standards, procedures, requirements and criteria.

Working Tasks

Total Man-hours

1.0 Update Data Collection / Gather Information

Utility Atlas Sheets	Not Included
Property Delineation and Ownership	Not Included

2.0 Early Project Coordination

Establish Design Criteria - Horizontal / Vertical	2
Prepare Work Plan	Not Included
Meetings and Coordination with Village	8
Meetings and Coordination with IDOT	4
Prepare Project Schedule	Not Included

3.0 Update Phase I Field Survey

Horizontal Control and Centerline Survey	Not Included
Vertical Control, Benchmarks and Ties	
Topographic Information	
Property Corners	

4.0 Update Traffic Analysis & Intersection Design Study

24 Hour machine counts	Not Included
AM Peak Hour Directional Counts	
PM Peak Hour Directional Counts	
Year 2030 Projected Traffic	
Capacity Analysis	
Traffic Signal Warrants	
Intersection Design Study Plan	
Intersection Auto turn Exhibits	

5.0 Update Accident Analysis

Compile Accident Reports and Records (most recent three years)	Not Included
Analysis of Collision Accident Data	
Determine Accident Rates and Compare to Statewide Averages	
Wet Weather Accident Analysis	

6.0 Alternative Alignments and Design Analysis

Horizontal Alignment Analysis	40
Vertical Alignment Analysis	Not Included
Typical Section Study	4

	Roadway Geometrics, Lanes, Median and Widths	8
	Turn Storage Requirements, Tapers and Turn Radii	Not Included
	Retaining Walls, Side slopes and Guardrail vs. ROW Issues	
	Temporary Construction Easements	
	Plan Geometrics for Report Exhibits	
	Profile Geometrics for Report Exhibits	
	Cross Section Impact Analysis	
	Determine Right-Of-Way and Easement Requirements	
	Pavement Marking Details	
	Landscaping Issues	
	Embankment, Cuts and Excess Earthwork	
	Utility Relocations	
	Safety Issues	
	Lighting Issues	
7.0 Railroad Coordination		
	Meetings and Coordination	Not Included
	Grades and Crossing	
	Signal Equipment & Railroad Preemption	
8.0 Streetscaping Issues		
	Landscaping Issues	Not Included
	Street Lighting Issues	
	Decorative Features	
9.0 Socio-Economic Business Establishment Issues		
	Meet with Businesses	Not Included
	Economic Issues	
	Traffic and Access Issues	
	Parking Issues	
	Safety Issues	
10.0 Maintenance of Traffic and Detour Route Analysis		
	Detour Route Analysis	Not Included
	Construction Staging Issues	
	Plan Packaging Issues	
11.0 Drainage Studies		
	Existing Drainage Plan Preparation and Submittal	Not Included
	Drainage Investigations, Flooding and Areas of Concern	
	Proposed Drainage Criteria	
	Hydraulic Atlas, Base Floodplains and Requirements	
	Floodplain and Floodway Maps and Requirements	
	Floodplain and Floodway Impacts	
	FEMA and FIRM Investigations	
	Compensatory Floodplain Storage	
	Drainage Outlet Evaluation	
	Stormwater Detention Analysis	
	Hydraulic Modeling	
	Culvert Waterway Tables (2 locations)	
	Culvert Hydraulics and Opening Sizes	

	Proposed Drainage Plan and Profile	
	Drainage Report Text and Exhibits	
	Erosion and Sediment Control Details	
	Scour Analysis	
12.0 Structural Studies		
	Retaining Wall Analysis and Calculations	Not Included
	Culverts and Wingwall Analysis and Calculations	
	Retaining Wall Alternatives	
	Culverts and Wingwall Alternatives	
	Preliminary TS&L for Retaining Walls	
	Preliminary TS&L for Culverts and Wingwalls	
	Structural Recommendations	
	Structural Cost Estimate	
13.0 Wetland Delineation, Classification, Mitigation		
	Delineation	Not Included
	Classification	
	Mitigation	
	Avoidance Alternatives	
	Wetland Impact Assessment	
14.0 Environmental Studies		
	Environmental Survey Request Form	Not Included
	Archaeological, Historical and Architectural Inventory	
	Preliminary Environmental Site Assessment	
	Hazardous Waste	
	Special Waste	
	Air Analysis	
	Noise Analysis	
	Section 4(f) Evaluation - Use of Public Properties	
	Section 6(f) Evaluations - Use of Land Acquired through Grants	
	Wetland Permits	
	Floodway and Floodplain Permits	
	Tree and Vegetation Evaluation	
15.0 Meetings, Coordination and Special Issues		
	County Forest Preserve	Not Included
	Illinois Nature Preserve	
	County Highway Department	
	Illinois Historic Preservation Officer	
	Department of Natural Resources	
	US Army Corps of Engineers	
	Villages and Townships	
	Illinois Department of Transportation	
	Coordination of Services by Others	
16.0 Public Involvement		
	Compile Mailing List from List of Property Owners	
	Prepare and Mail Informational Brochures	
	Prepare Public Meeting Displays and Presentation	

	Secure Public Meeting Site	Not Included
	Hold Public Meeting and Gather Input	
	Prepare Response to Comments at Public Meeting	
	Transportation to Meeting (2 trips)	
	Exhibit Board Preparation	
17.0 Cost Estimate		
	Preliminary	4
	Final	4
18.0 In-House Direct Costs		
	Printing and Reproductions	\$ 200.00
	Preliminary Submittal	
	Xerox Copies	
	Paper Plots	
	Blueline Copies	
	PreFinal Submittal	
	Xerox Copies	
	Paper Plots	
	Blueline Copies	
	Vellum Plots	
	Final Submittal	
	Xerox Copies	
	Paper Plots	
	Blueline Copies	
	Vellum Plots	
	Mylar Plots	
	Survey Vehicle Transportation	
	Field Survey Trips	
	Meeting Transportation	
	Meeting Trips	
	Special Meeting Exhibits and Presentation Material	
	Public Meeting Room Rental	
	Public Meeting Brochures	
	Public Meeting Exhibit Printing/Mounting	
19.0 Services By Others		
	Aerial Photography	Not Included
	Soil Borings / Wetland Borings / Pavement Cores	
	Traffic Counting (Peak Hours, Directional and 24-Hour Tube)	
	Hazardous / Special Waste Site Assessment Survey	
	Air Analysis	
	Noise Analysis	
	Erosion Control Plans	
	Water Quality Issues	
	Wetland Delineation and Classification	
	Total Man-Hours (Estimated)	74
	Labor (Estimated)	\$ 9,738.40
	In-House Costs and Services by Others (See above)	\$ 200.00
	Project Total	\$ 9,938.40