

## *Clerk's Contract and Agreement Cover Page*

**Year:** 2008-0

**Legistar File ID#:**

**Multi Year:**

**Amount** \$0.00

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**Contract Type:** Professional Services

**Contractor's Name:** McDonough Associates Inc

**Contractor's AKA:**

**Execution Date:** 3/4/2008

**Termination Date:** 12/31/2009

**Renewal Date:**

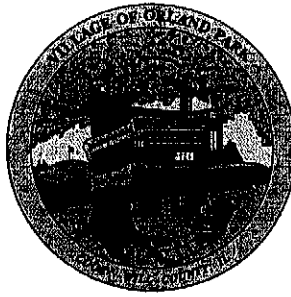
**Department:** Public Works

**Originating Person:** Denise Domalewski/Pete Casey

**Contract Description:** Professional Engineering Services General Contract  
2008-2009  
3.4.08 \$209,616 Ped Bridge  
3.4.08 \$75,230 Decorative Façade  
5.13.09 104th Ave Bike Path \$34,165.38  
12.1.09 - addendum to extend contract thru 2010  
6.16.10 Bike Path add \$23,420.48  
6.17.10 proposal Wolf & 183rd water main \$18,160.00  
  
12/23/10 Addendum B - extending General through  
2011  
1/20/11 - 143rd SW Hghwy Realignment \$9938.04 (PO  
59353)  
6/10/11 - Change Services Wolf Rd & 183rd St Water  
Main \$11,130.00 (4/14/11 proposal)  
5/31/11 \$2,666.00 Wolf Rd & 183rd WM Consruction  
Services  
9/1/11 -\$210,752 PH1 143rd - SWHwy to Wolf 2011-  
0351  
9/1/11 \$420,699.80 Ph2 143rd - Wolf to Will Cook 2011-0353

*Thursday, September 01, 2011*

MAYOR  
Daniel J. McLaughlin  
VILLAGE CLERK  
David P. Maher  
14700 S. Ravinia Ave.  
Orland Park, IL 60462  
(708) 403-6100  
[www.orland-park.il.us](http://www.orland-park.il.us)



VILLAGE HALL

TRUSTEES  
Kathleen M. Fenton  
Brad S. O'Halloran  
James V. Dodge  
Edward G. Schussler III  
Patricia A. Gira  
Carole Griffin Ruzich

September 1, 2011

Mr. Feroz Nathani  
President  
McDonough Associates Inc.  
130 East Randolph  
Suite 1000  
Chicago, Illinois 60601

**RE: *Proposal dated April 13, 2011 – Phase I Engineering for 143<sup>rd</sup> Street, Southwest Highway to Wolf Road.***  
***Proposal dated May 10, 2011 – Phase II Engineering for 143<sup>rd</sup> Street, Wolf to Will-Cook***

Dear Mr. Nathani:

Enclosed are signed copies of the proposals referenced above. The purchase order applicable to phase I is #61481 and the purchase order applicable to phase II is #61511. Please attach these signed proposals to the general contract dated March 4, 2008, revised December 23, 2010 extending the term to 2011.

If you have any questions, please call me at 708-403-6173.

Sincerely,

Denise Domalewski  
Contract Administrator

cc: Ed Wilmes



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**McDonough Associates Inc.**  
16634 South 107<sup>th</sup> Court  
Orland Park, Illinois 60467-8898  
708/226-9261 Fax: 708/226-9345  
[www.malengr.com](http://www.malengr.com)

April 13, 2011

Mayor Daniel J. McLaughlin  
Village of Orland Park  
14700 Ravinia Avenue  
Orland Park, IL 60462

Re: Phase I Engineering Design Services  
143<sup>rd</sup> Street – Wolf Road to Southwest Highway

Dear Mayor McLaughlin:

Please find attached a proposal to complete Phase I Engineering Design Services for the above reference project. The proposed services account for changes to the scope of this project which are detailed in the attached documents.

We appreciate the opportunity to provide engineering services to the Village of Orland Park. Please call me at (312) 946-7104 if you have any questions or require additional information.

Very truly yours,  
McDonough Associates Inc.

Feroz Nathani, PE  
President

**Phase I Update**  
**Illinois Route 7 (143rd Street) - Wolf Road to Southwest Highway**  
**Village of Orland Park**

**Scope of Work**

**143rd Street Phase I Update**

The project will consist of updating the current Phase I Project Development report and environmental items based on the new right-of-way agreement with the Forest Preserve District of Cook County along with the new requirements from the March 15, 2001 FHWA/IDOT coordination meeting. Existing traffic will need to be counted and projected to 2040, geometry will need to be revised based on the new ROW as well as Complete Streets requirements, all environmental work will need to be revisited and closed, a new public meeting will need to be held and the Project Development report and exhibits will need to be revised and resubmitted to IDOT for approval. The Location Drainage Study and Hydraulic Report have previously been approved and will require addendums to account for the new geometry. All work will be performed in full accordance with IDOT standards, procedures, requirements and criteria. NOTE - This project will meet the limits of the improvements to Southwest Highway on the west leg of the intersection of Southwest Highway and 143rd Street.

**Southwest Highway Realignment Studies**

The project will consist of preparing an Intersection Design Study for the potential realignment of the intersection at 143rd Street and Southwest Highway. The project will update the recommendations and findings made in the IDOT Phase I Report for 143rd Street 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. The project will also look at 2040 traffic projections for the intersection. A public meeting will be held to present the findings of the intersection improvement study to all stakeholders and interested parties. All work will be performed in full accordance with IDOT standards, procedures, requirements and criteria.

**143rd Phase I Update Working Tasks**

**Total Man-hours**

<b>1.0 Update Data Collection / Gather Information</b>		
Request and Plot Latest Utility Atlas Sheets		6
Request Latest Existing Roadway Plans		2
Property Delineation and Ownership		8
Taxing Maps		2
Planning Maps		2
Existing Drainage Plans		0
Development Plans		4
	<i>Sub-Total</i>	24
<b>2.0 Early Project Coordination</b>		
Re-establish Design Criteria - Horizontal / Vertical		6
Prepare New Work Plan		2
Prepare New Project Schedule		2
	<i>Sub-Total</i>	10
<b>3.0 Update Phase I Field Survey</b>		
Horizontal Control and Centerline Survey		8
Vertical Control, Benchmarks and Ties		8
Topographic Information		0
Property Corners		0
Drainage Survey		16
New Developments and Construction		48
Cross Sections		0
	<i>Sub-Total</i>	80

<b>4.0 Update Traffic Analysis &amp; Intersection Design Study</b>		
24 Hour machine counts		included by others
AM Peak Hour Directional Counts		included by others
PM Peak Hour Directional Counts		included by others
Year 2040 Projected Traffic (ADT and DHV)		16
Capacity Analysis		24
Traffic Signal Warrants		12
Intersection Design Study Plans (3 Intersections)		300
Intersection Autoturn Exhibits		24
	<i>Sub-Total</i>	376
<b>5.0 Update Crash Analysis</b>		
Compile Crash Reports and Records (most recent three years)		4
Analysis of Collision Accident Data		4
Prepare Crash Analysis Report and Exhibits		16
	<i>Sub-Total</i>	24
<b>6.0 143rd Street Alternative Alignments and Design Analysis</b>		
Horizontal Alignment Analysis		24
Vertical Alignment Analysis		16
Typical Section Study		16
Roadway Geometrics, Lanes, Median and Widths		4
Turn Storage Requirements, Tapers and Turn Radii		4
Retaining Walls, Side slopes and Guardrail vs. ROW Issues		8
Temporary Construction Easements		2
Plan Geometrics for IDS		24
Profile Geometrics for IDS		24
Cross Section Impact Analysis		4
Determine Right-Of-Way and Easement Requirements		4
Pavement Marking Details		2
Complete Streets Design		16
Utility Relocations		4
Safety Issues		4
	<i>Sub-Total</i>	156
<b>7.0 Streetscaping Issues</b>		
Landscaping Issues		Not Included
Street Lighting Issues		
Decorative Features		
	<i>Sub-Total</i>	
<b>8.0 Socio-Economic Business Establishment Issues</b>		
Meet with Businesses		Not Included
Economic Issues		
Traffic and Access Issues		
Parking Issues		
Safety Issues		
	<i>Sub-Total</i>	
<b>9.0 Maintenance of Traffic and Detour Route Analysis</b>		
Detour Route Analysis		0
Construction Staging Issues		8
Plan Packaging Options		4
	<i>Sub-Total</i>	12
<b>10.0 Hydraulic Report Addendum</b>		
Hydraulic Analysis Based on New Culvert Length		32
Revise Waterway Information Tables		16
Revise Compensatory Storage Calculations and Site Plan		16
Permit Summary for Floodway		8
Revise Hydraulic Report, Data Sheets, and PBDHR BLR 10210		32
Update General Plan and Elevation for Culvert		8
	<i>Sub-Total</i>	112

<b>11.0 Location Drainage Study Addendum</b>		
Update Existing Conditions		16
Revise Proposed Drainage Plan and Profiles		80
Analyze New Drainage Alternatives		16
Storm Sewer Calculations and Detention Calculations		72
Amend Location Drainage Study Report and Exhibits		48
Meetings and Coordination		24
	<i>Sub-Total</i>	256
<b>12.0 Structural Studies</b>		
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		
	<i>Sub-Total</i>	
<b>13.0 Wetland Delineation, Classification, Mitigation</b>		
Delineation		Not Included
Classification		
Mitigation		
Avoidance Alternatives		
Wetland Impact Re-Assessment and WIE Forms		
	<i>Sub-Total</i>	16
<b>14.0 Environmental Studies</b>		
Environmental Survey Request Form		0
Eco Cat On-Line Application		2
Archaeological, Historical and Architectural Inventory		0
Preliminary Environmental Site Assessment		0
Hazardous Waste		
Special Waste		0
Air Analysis		0
Noise Analysis		0
Section 4(f) Evaluation - Closeout with FPDCC		24
Wetland Permits		0
Revisit and Close all ECAD Items		32
Floodway and Floodplain Permits		0
Tree and Vegetation Evaluation		0
	<i>Sub-Total</i>	58
<b>15.0 Meetings, Coordination and Special Issues</b>		
Forest Preserve District of Cook County		16
Illinois Nature Preserve		0
Cook County Highway Department		4
Illinois Historic Preservation Officer		0
Illinois Department of Natural Resources		0
US Army Corps of Engineers		0
Illinois Department of Transportation		24
FHWA		4
Coordination of Services by Others		2
	<i>Sub-Total</i>	50
<b>16.0 143rd Street Public Involvement (Informational Meeting)</b>		
Compile Mailing List from List of Property Owners		2
Prepare and Mail Informational Brochures		4
Prepare Public Meeting Displays and Presentation		24
Secure Public Meeting Site		by Orland Park
Hold Public Meeting and Gather Input		16
Prepare Summary of Comments at Public Meeting		8
Transportation to Meeting (2 trips)		
	<i>Sub-Total</i>	54

<b>17.0 Cost Estimate</b>		
Preliminary		6
Final		4
	<i>Sub-Total</i>	10
<b>18.0 143rd Street Phase I Project Development Report</b>		
Revise PDR Text and Exhibits		48
Compile Final Report		16
	<i>Sub-Total</i>	64
<b>19.0 In-House Direct Costs</b>		
Printing and Reproductions		
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		
		\$ 2,000.00
<b>20.0 Services By Others</b>		
Aerial Photography		Not Included
Soil Borings / Wetland Borings / Pavement Cores		Not Included
Traffic Counting (Peak Hours, Directional and 24-Hour Tube)		\$ 6,000.00
Hazardous / Special Waste Site Assessment Survey		
Air Analysis		
Noise Analysis		
Erosion Control Plans		Not Included
Water Quality Issues		
Wetland Delineation and Classification		

<b>Estimate Total Man-Hours</b>	<b>1302</b>
<b>Estimate Average Hourly Wage Rate \$</b>	<b>43.50</b>
<b>Multiplier</b>	<b>2.8</b>
<b>Sub-Total \$</b>	<b>158,583.60</b>
<b>In-House Costs and Services by Others (see above) \$</b>	<b>8,000.00</b>
<b>Project Sub-Total \$</b>	<b>166,583.60</b>

# Southwest Highway Realignment Working Tasks

Total Man-hours

<b>1.0 Southwest Highway Realignment Study &amp; Intersection Design Study</b>		
Horizontal Alignment Analysis		24
Vertical Alignment Analysis		16
Typical Section Study		4
Roadway Geometrics, Lanes, Median and Widths		4
Turn Storage Requirements, Tapers and Turn Radii		4
Retaining Walls, Side slopes and Guardrail vs. ROW Issues		4
Temporary Construction Easements		2
Plan Geometrics for IDS		8
Profile Geometrics for IDS		8
Cross Section Impact Analysis		4
Determine Right-Of-Way and Easement Requirements		4
Pavement Marking Details		2
School Access Issues		16
Utility Relocations		4
24 Hour machine counts		Included by others
AM Peak Hour Directional Counts		Included by others
PM Peak Hour Directional Counts		Included by others
Capacity Analysis		12
Traffic Signal Warrants		4
Intersection Design Study Plans (3 Intersections)		100
Intersection Autoturn Exhibits		8
	<i>Sub-Total</i>	228
<b>2.0 Railroad Coordination</b>		
Meetings and Coordination		4
Grades and Crossing		4
Signal Equipment & Railroad Preemption		4
	<i>Sub-Total</i>	12
<b>3.0 Southwest Highway Public Involvement (Informational Meeting)</b>		
Prepare Public Meeting Displays and Presentation		24
Secure Public Meeting Site		by Orland Park
Hold Public Meeting and Gather Input		16
Public Outreach and Follow Up with School and Property Owners		16
Transportation to Meeting (2 trips)		
	<i>Sub-Total</i>	56
<b>4.0 Cost Estimate</b>		
Preliminary		6
Final		4
	<i>Sub-Total</i>	10
<b>5.0 Southwest Highway Phase I Project Development Report</b>		
Prepare PDR Text and Exhibits		24
Compile Final Report		8
	<i>Sub-Total</i>	32
<b>6.0 In-House Direct Costs</b>		
Printing and Reproductions		
Preliminary Submittal		
Xerox Copies		
Paper Plots		
Blueline Copies		
PreFinal Submittal		
Xerox Copies		
Paper Plots		
Blueline Copies		
Vellum Plots		
Final Submittal		
Xerox Copies		
Paper Plots		
		\$ 1,000.00



Blue-line 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	
<b>7.0 Services By Others</b>	
Aerial Photography	Not Included
Soil Borings / Wetland Borings / Pavement Cores	
Traffic Counting (Peak Hours, Directional and 24-Hour Tube)	\$ 2,000.00
Hazardous / Special Waste Site Assessment Survey	
Air Analysis	
Noise Analysis	Not Included
Erosion Control Plans	
Water Quality Issues	
Wetland Delineation and Classification	

Estimate Total Man-Hours	338
Estimate Average Hourly Wage Rate \$	43.50
Multiplier	2.8
Sub-Total \$	41,168.40
In-House Costs and Services by Others (see above) \$	3,000.00
Project Sub-Total \$	44,168.40

**PROJECT GRAND TOTAL \$ 210,752.00**

Accepted and Approved by

Village of Orland Park

by:

Paul G. Grimes

Village Manager

date:

8/31/11

**REQUEST FOR ACTION REPORT**

BOARD

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File Number:	2011-0351
Orig. Department:	Public Works Department
File Name:	Supplement for Design Engineering McDonough Associates - 143rd Street, Southwest Highway to Wolf Road

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**BACKGROUND:**

Over the past several years, McDonough Associates Inc. (MAI) of Chicago, Illinois, has been performing Phase I Engineering for the 143rd Street corridor, generally from LaGrange Road west to Will Cook Road as conditions have allowed them to continue. 143rd Street is an IDOT road, with the Village taking the lead on advance engineering and ultimately reconstruction. Federal funding has been secured for the engineering and construction with the local match set at thirty percent (30%).

The 143rd Street corridor project was split into two smaller projects (LaGrange Road to Wolf Road (Segment 1) and Wolf Road to Will Cook Road (Segment 2) when challenges with right-of-way acquisition along the Cook County Forest Preserve District (FPDCC) property arose. The scope of their work for both projects is to develop a Phase I report and preliminary plans, etc., for the proposed reconstruction and expansion of the corridor from 2 lanes to 4 lanes with a shared median turn lane or raised median, depending upon location.

Since the original work has been undertaken, the easternmost limits for Segment 1 have been reduced from the LaGrange Road terminus to Southwest Highway due to advance work on 143rd Street from generally LaGrange to Beacon related to the Village's Triangle Development.

As noted, the Segment 1 project was suspended for a number of years due to the uncertainty of construction options. Right-of-way acquisition issues arose during Phase I development regarding the roadway's proposed relocated proximity to residential properties within this section, and the potential need to obtain right-of way from the FPDCC. Since the early 2011 acquisition of the needed right of way from FPDCC, work on this project is able to be fully resumed.

During late 2010, the Village asked McDonough to provide a Feasibility Report regarding an opportunity to realign Southwest Highway with Union Avenue at 143rd Street, thereby eliminating the "fifth leg" of the current intersection at that location. Since that study has been returned and deemed a feasible project by the Village and IDOT, Segment 1 has been split into Segments 1A and 1B. Segment 1A is generally the Southwest Highway/Union Avenue and 143rd Street realignment project, and Segment 1B is 143rd Street from Southwest Highway to Wolf Road.

To move the Segment 1A project forward, the Village has met with parties involved including school District 135 staff. No formal approval for Segment 1A has been provided thus far. Therefore while the proposal includes fees in the amount of \$44,168.40 for the continuation of this realignment work, no expenditures will be made until a formal agreement is made with the affected landowner and District 135 regarding the proposed Southwest Highway realignment

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**Segment 1A project.**

After the additional right of way was acquired from FPDCC, the Village requested the status of the project from IDOT and FHWA. McDonough has advised of the work remaining since the project was suspended approximately five years ago. The proposal provides a scope for the work for Segment 1B (estimated at \$166,583.60) to complete the Phase I report to finalize this initial portion of the work leading to the reconstruction and widening of the 143rd Street corridor to four through-lanes, with a fifth shared turn lane. To date, the Village has spent approximately \$494,770 on Phase I engineering for this segment of 143rd Street.

Staff has reviewed the proposal from McDonough Associates for the Phase I engineering work for both projects and finds the proposed fee of \$210,752.00 appropriate for the effort to be undertaken. The Village will be reimbursed for seventy percent (70%) of the total cost of the work.

On June 6, 2011, this item was reviewed and approved by the Public Works and Engineering Committee and referred to the Board for approval.

INFORMATION PREVIOUSLY PROVIDED AS PART OF THE JUNE 6, 2011, PUBLIC WORKS AND ENGINEERING COMMITTEE PACKET.

**BUDGET IMPACT:**

Budget remaining from the 143rd Street and LaGrange Road project which will not be used due to the low construction bid received for the project will be used to fund this item.

**REQUESTED ACTION:**

I move to approve authorizing the Village Manager to execute Supplemental Agreement dated April 13, 2011, with McDonough Associates Inc. of Chicago, Illinois, to complete Phase I Design Engineering services for 143rd Street from Southwest Highway to Wolf Road (Segment 1B) and to provide Engineering Services, report submittals and Public Meetings related to the realignment of Southwest Highway with Union Avenue at 143rd Street (Segment 1A) in an amount not to exceed \$210,752.00.

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