

McDonough Associates Inc. 130 East Randolph Street Suite 1000 Chicago, illinois 60601-6214 312/946-8600 Fax: 312/946-7199 www.maiengr.com

May 10, 2011

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

Attn:

Paul Grimes

Village Manager

Re:

Phase 2 Engineering Design Services

143rd Street - Wolf Road to Will Cook Road .

Dear Mayor McLaughlin:

Please find attached a proposal to complete Phase 2 Engineering Design Services for the above referenced project. The proposed services for Phase 2 engineering as detailed in the attached documents total \$420,699.80 including sub-consultant services. Please be advised Phase 2 engineering is programmed for \$450,000 utilizing STP funding. The local share is 30%. Since 143<sup>rd</sup> Street is an unmarked state route under IDOT jurisdiction, the Village should consider writing a letter and request a joint agreement, as they did in Phase I, for IDOT to split the local match.

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.

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cc. Ed Wilmes, Mike Hannemann

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Village Manager's Office

MAY 12 2011

VILLAGE OF ORLAND PARK

## 143rd Street Reconstruction Will-Cook Road to Wolf Road Village of Orland Park

## Scope of Work

The project objective is to prepare Phase II Contract Plans and Specifications for the improvement of the 143rd Street between Will-Cook Road and Wolf Road. The roadway is being reconstructed from two-lane to four-lane with median/left-turn lane. The limits will be from the east leg of Will-Cook Road to the west leg of Wolf Road, tying into adjacent projects. It is assumed that no land bridge will be constructed as a part of this project. If this is not the case, an extra will be required to design the land bridge. Design includes a 10'x6' triple box culvert, new traffic signal installation at Creek Crossing Drive, new sidewalk and new closed drainage system. Approximate total length of project is 4,700 feet. All work will be performed in full accordance with IDOT standards, procedures, requirements and criteria.

d Survey	Man-hours	Direct Costs
Survey		
Establish Project Control and Alignment		010000000000000000000000000000000000000
Cross Sections	64	
A COLOMB CONTRACT CON	48	<u>.</u>
Topographic (object type, size, location, condition)	96	<b>!</b>
Drainage Survey ( size, type, invert and flow direction)	40	H
CADD	30	
Survey Materials		
Vehicle Allowance		\$ 100.00
		\$ 630.00
Sub-Total	280	\$ 730.00

2. Final Design Items

Culvert			T
10'x'6' Triple Box Culvert TS&L		90	
Draiπage System	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		AND THE RESERVE OF THE PARTY OF
Storm Sewer Calculations	The state of the s	24	
Detention Calculations		46	
Safety Guardrail and Handrail Decign			
Guardrail and Handrail Design	and the second of the second o	40	
	Sub-Total	160	\$ 150.00

3. Ground Stabilization Design and Coordination

Piled Embankment Design		10	
Settlement Analysis and Discussions	27 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	40	\$ 81,925.80
Preferred Alternative Meetings with Wang Engineeri	ng and Village Officials	24 24	
	Sub-Total	88	\$ 81,925,80

4. Permitting

United States Army Corps of Engineers 404 Permit and Regional Permits	40	
Illinois Department of Natural Resources - Office of Water Resources Floodway Permit	20	*************************
Illinois Environmental Protection Agency - NPDES Permit	4	
Sub-Total	64	\$ 250.00

ay - Contract Plans, Specifications and Estimate	Sheets	Hrs/Sheet	Man-hours	Direct Cost
Cover Sheet	1	8	8	
Plan Index, General Notes and Legend	Ĭ 1	30	30	i
Summary of Quantities and Schedules	5	20	100	·
Alignment, Ties, Benchmarks and Right-Of-Way Corners	2	20	4N	· 🕆
Traffic Control Drawings (3 Stages)	8	20	160	1
Typical Cross Section Drawings	2	24	48	1
Roadway Plan and Profile Drawing (4 Mainline)	4	30	120	<b> </b>
Drainage Plan and Profile Drawings (4 Mainline)	j 4	30	120	1
Retaining Wall Details and Sections	3	30	90	j
Triple Box Culvert Plans and Details	3	40	120	· ˈˈ ·····
Ground Stabilization Plans and Details	4	40	160	B

Sub-Total	al 71	1	1836	\$ 4.500.00
Meeting Transportation ( 10 meetings at \$36 )				\$ 4,000.00 \$ 500.00
Computer Ploting, Xerox Copies and Reproductions (See Exhibit G)			80	
DA/QC			40	
Quantity and Design Calculations	m		20	- <b>!</b>
Engineering Cost Estimate (Preliminary, PreFinal and Final)		ļ	20	<del> </del>
Storm Water Pollution Prevention Plan	- j		20	<b>.</b>
Specifications and Special Provisions	İ	Ï	40	1
Roadway Cross Sections (every 50 feet and driveways)	12	12	144	<b>i</b>
Pavement Marking Plans	4	30	120	
Landscaping and Erosion Control Plans	4	30	120	
Temporary Erosion Control Plans	4	20	80	
Traffic Signal Details	4	4	16	1
Traffic Signal Plans (Creek Crossing Drive)	4	30	120	Ĭ
Miscellaneous Design Details	2	20	40	

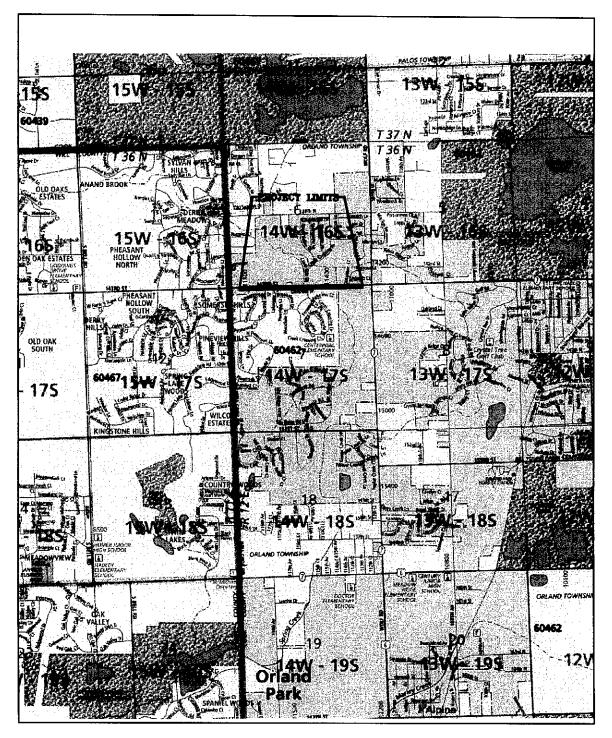
6. Meetings and Coordination

Village of Orland Park		1 12	T
Illinois Department of Transportation	The state of the s	40	White the comment of the second section of the comment of the comm
United States Army Corps of Engineers		40	ļ
Stakeholders, Businesses and General Public		16	<u> </u>
Project Management and Administration	***************************************	40	<b></b>
	Sub-Total	216	<u> </u>

TOTAL MAN-HOURS	2644	
ESTIMATED AVERAGE HOURLY WAGE RATE	\$	45.00
MULTIPLIER	2.8	
SUB-TOTAL	\$ 333,144.00	
IN-HOUSE COSTS AND SERVICES BY OTHERS (SEE ABOVE)	\$ 87,555.80	
PROJECT TOTAL	\$ 420,699.80	

## 143RD STREET IMPROVEMENTS Will-Cook Road to Wolf Road





## **LOCATION MAP**