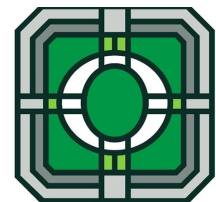




CiorbaGroup
CONSULTING ENGINEERS

Proposal for:

Fernway Road & Ditch Reconstruction
Phases 7, 8 and 9



**ORLAND
PARK**

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Scope of Services

Ciorba Group's Project Team has the technical expertise required by the Village of Orland Park to complete the Phase II design engineering services for the Fernway Road and Ditch Reconstruction Phase 7, 8 and 9 project. Ciorba Group will follow the requirements and scope of services as outlined in the Village's RFP and as described below.

1. Meetings, Coordination and Data Collection

Ciorba Group will attend an initial kick off meeting with the Village to review the proposed scope of improvements, engineering parameters, and project schedule. Prior to this meeting, Ciorba will request the following information to be provided at the meeting if possible: Electronic copies of standard Village specifications, contract conditions and details; Village public utility atlases and GIS data; any available right of way information; and historic as-built plans. An additional meeting will be scheduled with the Village to discuss plan review comments.

Coordination will be conducted with the Village, ILAW and the various private utility companies with facilities within the project limits. We will obtain atlases from private utility companies once Notice to Proceed is received from the Village. This information will be added onto our base sheets with the drafted topographic survey data. A critical item is to identify any private utility adjustments or relocations as soon as possible. During design, the staff will identify any potential conflicts so that the utility company can be contacted immediately to verify the conflict. Utility coordination will go beyond contacting the various companies about potential adjustments of their facilities. Once verified, we will request the private utility company develop a schedule for the adjustment or relocation to avoid delaying the start of construction. We will also discuss with utility companies any known future improvements planned for the project area so that the work can be coordinated with the roadway construction.

2. Topographic Survey and Base Sheet Preparation

Horizontal and vertical topographic survey will be completed the entire length of each street in the project. Survey tasks will include setting horizontal and vertical control; establishing the approximate existing right-of-way boundary based on monumentation found in the field and other records; isolated survey of rear yards; and obtaining public utility information and conditions. Collecting storm sewer and sanitary sewer manhole inverts and frame elevations will be important to identify potential conflicts.

Once the survey is completed, the topographic data will be used to develop base sheets for the design plan preparation.

3. Preliminary Plans, Specifications and Cost Estimates

Ciorba Group will prepare preliminary plans, specifications, and cost estimates for submittal to the Village for review. The plans will include but are not limited to: Title Sheet; General Notes; Summary of Quantities; Typical Sections; Maintenance of Traffic Notes and Details, Plan and Profile; Erosion Control Plan; Quantity Schedules; Cross Sections; and Special Details. All specifications will conform to the IDOT Standard Specifications for Road and Bridge Construction and Village of Orland Park requirements. Special Provisions will be prepared for pay items not addressed by the Standard Specifications. A Status of Utilities will be included in the specifications. An Estimate of Time and an Opinion of Probable Cost will be prepared for this submittal. Before the preliminary PS&E are submitted to the Village, a QC/QA Engineer not associated with the project's day to day work efforts will review the documents in accordance with the established QC/QA Plan.

Information will be requested from the Village's Public Works Department on any reported drainage issues. Ciorba will investigate these reports and develop improvement concepts for Village review. As directed, the improvement concepts will be incorporated into the plans. Maintenance of traffic plans will consist of IDOT standards as well as notes and special details. The Village will provide supplemental soil borings and geotechnical report of the existing pavement section conditions.

4. Permits

Ciorba will submit permit applications to the necessary regulatory agencies. We anticipate that only a National Pollutant Discharge Elimination System (NPDES) permit and Storm Water Pollution Prevention Plan (SWPPP) with Notice of Intent (NOI) will be prepared for submittal. If any sanitary sewers or structures will be impacted during construction, we will work with ILAW to replace or adjust any of their facilities in accordance with their requirements.

5. Final Plans, Specifications and Cost Estimates

The PS&E will be revised per Village comments on the preliminary documents. After a last QC/QA review, the final PS&E will be submitted to the Village for bid letting review. Final last-minute adjustments will be made to the documents if required by the Village.

Ciorba Group anticipates that the final plans, specifications, and cost estimates will be completed and approved by the Village on schedule for a spring 2022 start of construction. Our design goal for the roadway and ditch improvements will be to minimize impacts to both private and public utilities and thereby avoid delays to the start of construction.



Proposal

Cost Estimate and Consultant Services

Client: Village of Orland Park

Date: 9/10/2021

ITEM	MANHOURS (A)	PAYROLL (B)	(2.8) TIMES PAYROLL (C)	DIRECT COSTS (D)	SERVICES BY OTHERS (E)	TOTAL (C+D+E)	% OF GRAND TOTAL
Meetings, Coordination & Data Collection	33	\$ 1,474.99	\$ 4,129.97	\$ 73.60		\$ 4,203.57	2.27%
Topographic Survey	202	\$ 8,445.65	\$ 23,647.81	\$ 1,336.80		\$ 24,984.61	13.52%
Water Resources and Permitting	328	\$ 12,925.26	\$ 36,190.74			\$ 36,190.74	19.58%
Engineering Plans	963	\$ 37,835.14	\$ 105,938.39			\$ 105,938.39	57.31%
QC/QA	32	\$ 2,720.00	\$ 7,616.00			\$ 7,616.00	4.12%
Project Management & Administration	30	\$ 2,110.02	\$ 5,908.06			\$ 5,908.06	3.20%
TOTALS	1588	\$ 65,511.06	\$ 183,430.96	\$ 1,410.40		\$ 184,841.36	100.00%



Proposal

Staff Hours

Task Sub-Task	Activity	Grand Total	Principal	Project Manager	Project Engineer	Senior Engineer	Engineer II	Engineer I	Senior Technician	QC/QA Engineer
		1588	10	165	51	160	714	304	152	32
1. Meetings, Coordination & Data Collection	Task Total:	33		11			22			
010 Meetings	Subtotal:	8		4			4			
	Meetings with Village - 2 meetings	8		4			4			
011 Coordination	Subtotal:	21		7			14			
	Coordination with Village	8		4			4			
	Coordination with Utilities including ILAW	10		2			8			
	Submit Plans to Utilities	3		1			2			
012 Data Collection	Subtotal:	4					4			
	Obtain Utility Atlases	4					4			
2. Topographic Survey	Task Total:	202		1	5	8	20	16	152	
020 Field Survey	Subtotal:	174		1	5		12	16	140	
	Project Setup	6		1	1				4	
	Site Visits by Staff	8			4		4			
	Establish Control Points and Ties	40					8		32	
	Horizontal Topography	48							48	
	Cross Sections @ 50' Intervals	32							32	
	Supplemental Survey	8							8	
	Utility Structure Inventory	32						16	16	
021 Process Survey Information	Subtotal:	28				8	8		12	
	Down Loading Total Station	12							12	
	Create Digital Terrain Model	16				8	8			
3. Water Resources and Permitting	Task Total:	328		12	44	60	108	104		
031 Stormwater Facility Design	Subtotal:	316		12	40	60	100	104		
	Ditch, Culvert and Storm Sewer Hydraulic Design	280		10	30	60	100	80		
	Erosion and Sediment Control Notes and Schedules	36		2	10			24		
035 Permits	Subtotal:	12			4		8			
	Permit - NPDES	12			4		8			



Proposal

Task Sub-Task	Activity	Grand Total	Principal	Project Manager	Project Engineer	Senior Engineer	Engineer II	Engineer I	Senior Technician	QC/QA Engineer
3. Engineering Plans		Task Total:	963		121	2	92	564	184	
055	Contract Plans	Subtotal:	66	8			10	48		
	Title Sheet	8					2	6		
	General Notes/Index/IDOT Highway Standards List	10		2				8		
	Summary of Quantities	12		2				10		
	Typical Sections	26		2			4	20		
	Plan Assembly - 2 Submittals	4						4		
	Disposition of Comments - 2 Submittals	6		2			4			
056	Roadway and Drainage Plans	Subtotal:	722	78		80	486	78		
	Schedule of Quantities	30		6			12	12		
	Maintenance of Traffic Notes and Details	8		2				6		
	Proposed Plan and Profile Sheets (1"=20')	300		50			190	60		
	Details including IDOT Standards	34		10			24			
	Cross Sections (50' Intervals, 8 X-Sec/Sheet)	350		10		80	260			
058	Quantity Calculations	Subtotal:	115	7	2	12	36	58		
	Quantities (Removals)	23				2	4	17		
	Quantities (Earthwork)	24		2		2	20			
	Quantities (Proposed Plan)	40		4			12	24		
	Quantities (Water Resources)	28		1	2	8		17		
059	Specifications & Estimates	Subtotal:	60	28			32			
	Specifications and Contract Documents	40		20			20			
	Estimate of Time (Pre-final & Final)	6		2			4			
	Estimate of Cost (Pre-final & Final)	14		6			8			
4. QC/QA		Task Total:	32							32
090	QC/QA	Subtotal:	32							32
	Roadway	16								16
	Water Resources	16								16



Proposal

Task Sub-Task	Activity		Grand Total	Principal	Project Manager	Project Engineer	Senior Engineer	Engineer II	Engineer I	Senior Technician	QC/QA Engineer
5. Project Management & Administration			Task Total:	30	10	20					
100 Project Management & Administration			Subtotal:	30	10	20					
Project Administration				15	5	10					
Project Management				15	5	10					



Proposal

Rates

CLASSIFICATION	CURRENT RATE	ESCALATED RATE
Principal	\$83.50	\$84.50
Project Manager	\$62.50	\$63.25
Project Engineer	\$51.00	\$51.61
Senior Engineer	\$44.50	\$45.03
Engineer II	\$35.00	\$35.42
Engineer I	\$32.00	\$32.38
Senior Technician	\$42.50	\$43.01
QC/QA Engineer	\$84.00	\$85.00



Proposal

Indirect Costs

Meetings, Coordination & Data Collection

Description	Unit	Unit Cost	Quantity	Extended Cost
Vehicle (mileage)	mile	\$ 0.575	128	\$ 73.60
Total:				<u>\$ 73.60</u>

Topographic Survey

Description	Unit	Unit Cost	Quantity	Extended Cost
Vehicle (mileage)	mile	\$ 0.58	64	\$ 36.80
Vehicle (day)	day	\$ 65.00	20	\$ 1,300.00
Total:				<u>\$ 1,336.80</u>

