

RESOLUTION NO. 16 - 18

A RESOLUTION APPROVING A CM&T WORK ORDER FOR THE PLUMMER BOULEVARD UNDERPASS REPAIR PROJECT

WHEREAS, the Village of Chatham (“Village”) is an Illinois Municipal Corporation existing and operating under the Illinois Municipal Code and the laws of the State of Illinois; and

WHEREAS, the engineers for the Village, CM&T, submitted a Work Order, attached as Exhibit A, to prepare plans, estimates and costs for the bidding of repairs to the storm sewers and sidewalks at the Plummer Boulevard underpass, including construction observation activities; and

WHEREAS, the Work Order states the compensation for services, including reimbursable expenses, will not exceed \$29,398 for design and construction engineering services; and

WHEREAS, the Board of Trustees of the Village believe it is in the best interest of the Village to approve the Work Order and authorize the Village Manager to execute same.

NOW THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Chatham, Sangamon County, Illinois, as follows:

Section 1. Recitals. The foregoing recitals shall be and are hereby incorporated into and made a part of this Resolution as if fully set forth in this Section 1.

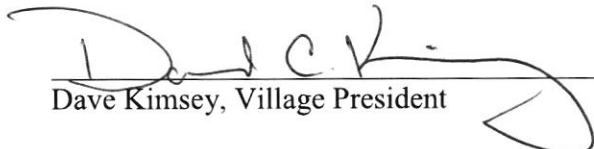
Section 2. Approval of Work Order. The Village Board hereby approves the Work Order submitted by CM&T for the Plummer Boulevard underpass, in an amount not to exceed \$29, 398, and authorize the Village Manager to execute same.

Section 3. Effective Date. This Resolution shall be in full force and effect from and after its passage and approval.

SO RESOLVED this 27th day of march, 2018.

	YES	NO	ABSENT	PRESENT
TERRY FOUNTAIN	X			
BRETT GERGER	X			
NINA LINDHORST	X			
RYAN MANN	X			
MATT MAU	X			
PAUL SCHERSCHEL	X			
DAVE KIMSEY				
TOTAL	6	0	0	

APPROVED by the President of the Village of Chatham, Illinois this 27th day of march, 2018.


Dave Kimsey, Village President

Attest:


Amy Dahlkamp, Village Clerk

**EXHIBIT A
WORK ORDER**

**Village of Chatham
2018 Engineering Services Work Order
CMT WORK ORDER 18-001**

Plummer Boulevard Underpass Repairs

Date: 03/19/18	Name: Plummer Boulevard Underpass Repairs
Project Description: <u>Prepare plans, estimates and costs for the bidding of repairs to the storm sewers and sidewalks at the Plummer Blvd underpass, including construction observation activities.</u>	
Services Required: <ol style="list-style-type: none">1. Preparation of engineering plans and specifications for storm sewer and sidewalk repairs.2. Prepare necessary bidding documents and assist the village in the letting process.3. Construction engineering services for the observation and documentation of the proposed improvements.	
Time Schedule: Work will begin upon receipt of this executed Engineering Services Work Order and will be completed August 1, 2018.	
Compensation: Compensation for the services provided under this Engineering Services Work Order will be in accordance with the provisions of the Retainer Contract. The compensation for the above services, including reimbursable expenses, will be invoiced as the work is performed. It is estimated that the compensation for the above services, including reimbursable expenses, will not exceed \$ 29,398.00 for design and construction engineering services. (See Exhibit A).	
Approval and Notice to Proceed:	
Village of Chatham	Crawford, Murphy & Tilly, Inc.
By: _____	By: James M. Michael, P.E.
Title: _____	Title: <u>Project Manager</u>
Date: _____	Date: 3/19/18
Chatham Work Order No. <u>18-001</u>	CMT Project No. <u>18046-01-01</u>
Notice To Proceed Date: _____	
Services provided under this Work Order shall be in accordance with the Agreement for Professional Services dated <u>2/2016</u> for general engineering services in 2018.	

Village of Chatham
Plummer Boulevard Underpass Repairs

Background

In February of 2018, the Village of Chatham (Village) engaged Crawford, Murphy and Tilly, Inc. (CMT) to investigate the collapsed sidewalk(s) at the Plummer Boulevard underpass between Ravina Drive and Park Avenue. This stretch of Plummer Blvd consists of 5' wide sidewalks that have settled due to loss of material beneath the sidewalks located between the back of curb and the cantilever retaining walls. One section of sidewalk on the south side has been completely undermined and collapsed. In response, the Village has closed the south sidewalk until repairs can be made.

The storm sewer for the Plummer Blvd underpass lies directly beneath the curb line on the south side of the road. At the recommendation of the Village, CMT hired a contractor to inspect/video the sewers to assist in determining the cause of the material loss beneath the sidewalk. Upon commencing the inspections, it was evident that the sewer backfill material (sand) has been making its way to the storm sewers through multiple defects or failures in the pipe and manhole structures. These defects include cracked and collapsed pipe, loose joints, and poor construction of the frame and grate to manhole structure. The Village was notified of presence of this material blocking the sewers and has been addressing the issue with their vacuum truck by jetting and clearing the sewers in conjunction with the video investigation. While CMT will receive the remainder of the inspection reports once the work is complete, it is apparent that this storm sewer would benefit from CIPP (Cured In Place Pipe lining) and point repairs at each of the manhole structures. As requested at the March village Board Meeting, CMT is moving forward and submitting a proposal for design and construction observation engineering services.

Scope of Work

Based on our investigations and plan review of the existing construction, the proposed improvements consist of replacing 195' of sidewalk and curb and gutter, point repairs and lining 13 manholes, CIPP for 614' of 12" diameter pipe, CIPP for 468' of 18" diameter pipe, and exploratory excavation near the curb and wall foundation for further assessment of the existing conditions. The scope of engineering services, described in more detail below and in the attached cost estimate, includes design and preparation of bid documents as well as part-time construction observation.

Scope of Services

1. Investigation and Plan Review

- Acquisition and review of record plans
- Storm sewer inspections, video recordings, and reports
- Onsite investigations
- Preliminary discussions for repair options and deficiency corrections

2. *Design Engineering*

➤ Plan Preparation

Preparation of preliminary / prefinal plans will include all design and drafting required to provide the following:

1. Cover Sheet
2. General Notes
3. Summary of Quantities
4. Typical Sections
5. Plan Sheets
6. Special Details
7. IDOT Highway Standards / Details
8. Contract Specifications
9. Estimates

3. *Construction Engineering and Observation*

CMT will provide bidding assistance, contract administration, and construction documentation and part-time construction observation. Construction observation will be on an as-needed basis with an emphasis on major construction tasks such as review of manhole point repairs, concrete pours, exploratory excavations, material certification and testing documentation, etc.

4. *Material Testing*

CRAWFORD, MURPHY & TILLY, INC.
CONTRACT ATTACHMENT - EXHIBIT A - 2018 PROFESSIONAL SERVICES COST ESTIMATE
CLIENT Village of Chatham
PROJECT NAME Plummer Blvd Underpass Repairs
CMT JOB NO. 18064-01-01

Prep By	PROJ MGR
DATE	03/20/18
Apprvd	PROJ PNCL
DATE	03/20/18

TASK NO.	TASKS \ CLASSIFICATIONS	PRINCIPAL	SENIOR PROJECT ENGINEER / MANAGER	ARCHITECT	PROJECT MANAGER	SENIOR ENGINEER / LAND SURVEYOR	SENIOR ARCHITECT	SENIOR ENGINEER / MANAGER	SENIOR TECHNICAL GIS SPECIALIST	SENIOR PLANNER	ARCHITECT	ENGINEER	SENIOR TECHNICIAN	TECHNICAL MGR / PLANNER	TECHNICIAN MGR	TECHNICIAN II	TECHNICIAN I	ADMIN ASSISTANT / ACCOUNTANT	MAN HOURS & LABOR SUMMARY	TOTAL	
																					CURRENT YEAR 2018 HOURLY RATES
			\$210	\$205	\$175	\$140	\$130	\$120	\$120	\$130	\$85	\$105	\$80	\$50							
1	Investigation and Plan Review				10	30															40
2	Design Engineering				5	45										10					60
3	Construction Engineering and Observation				5	30										65					100
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
	TOTAL MAN HOURS				20	105									75						200
	SUBTOTAL - BASE LABOR EFFORT				\$3,500	\$14,700									\$7,875						\$26,075
TASKS (CONTINUED)		TOTAL LABOR EFFORT	DIRECT EXPENSE & REIMBURSABLES										TOTAL EXPENSE	TOTAL FEE							
			TRAVEL MILEAGE	MEALS & LODGING	PRINTING	EQUIP-MENT	MISC	SURVEY MTL	SUBS	SUBS ADMIN	OTHER EXP	OTHER EXP									
1	Investigation and Plan Review	\$5,950							\$1,930	\$193				\$2,123	\$8,073						
2	Design Engineering	\$8,225			\$100									\$100	\$8,325						
3	Construction Engineering and Observation	\$11,900													\$11,900						
4	Material Testing								\$1,000	\$100				\$1,100	\$1,100						
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
	TOTALS	\$26,075			\$100				\$2,930	\$293				\$3,323	\$29,398						
	TIME PERIOD OF PROJECT	2018	2019	2020	2021	TOTAL	EST % OF OT HRS INCLUDED ABOVE AVERAGE OVERTIME RATE PREMIUM					15%	MULTI-YEAR + OT MLTPLR & AMT								
	PERCENTAGE OF WORK TO BE PERFORMED BY YEAR	100%				100%	OT ADJUSTMENT FACTOR					1.0000									
	WEIGHTING FACTOR FOR 5% ANNUAL ADJUSTMENT	1.0000				1.0000															
	ESTIMATED CONTINGENCY																				
	ROUNDING																				
	TOTAL FEE		MATH CROSS CHECK IS OK											\$29,398							