

WORK ORDER  
PURSUANT TO AN AGREEMENT BETWEEN  
THE CITY OF FORT COLLINS  
AND  
CTL Thompson, LLC

Work Order Number: 1-400904400-19

Purchase Order Number:

Project Title: Willow Street Improvements

Original Bid/RFP Project Number & Name: 8413 Geotechnical Testing Services On-Call

Commencement Date: May 20, 2019

Completion Date: November 30, 2019

Maximum Fee: (time and reimbursable direct costs): \$11,440.00

Project Description: QA/QC and Testing services

Scope of Services: See attached scope of service dated May 17, 2019.

Professional agrees to perform the services identified above and on the attached forms in accordance with the terms and conditions contained herein and in the Professional Services Agreement between the parties. In the event of a conflict between or ambiguity in the terms of the Professional Services Agreement and this work order (including the attached forms) the Professional Services Agreement shall control.

The attached forms consisting of five (5) pages are hereby accepted and incorporated herein, by this reference, and Notice to Proceed is hereby given.

City of Fort Collins

DocuSigned by:  
By: Nicole Hahn  
Project Manager 325BB43C57C5417...

Date: 6/20/2019

By: \_\_\_\_\_  
Gerry Paul  
Director of Purchasing and Risk Management  
(over \$60,000.00)

Date: \_\_\_\_\_

Professional

DocuSigned by:  
By: Heather Grubb  
3F8A5E8A866742C...

Date: 6/20/2019



May 17, 2019

City of Fort Collins  
 Engineering Department  
 281 N. College Avenue  
 P.O. Box 580  
 Fort Collins, Colorado 80522-0580

Attention: Nicole Hahn, PE

Subject: Fee Estimate for Construction Observation and Materials Testing Services  
 Willow Street Improvements Project  
 Fort Collins, Colorado  
 Fee Estimate No. FC 19-0199

At your request, CTL|Thompson, Inc. is pleased to provide this fee estimate for Construction Observation and Materials Testing services for the Willow Street Improvements project located in Fort Collins, Colorado. We used the testing quantities and plans that were provided in preparation of our proposal.

We understand that the city will use our estimate for the basis of establishing a budget for the project and to issue a purchase order for our services. Our estimated scope of services and associated fees were prepared according to the terms and conditions of our professional services agreement with the City of Fort Collins and are presented below.

Soil Compaction Testing: Compaction testing for utility trench backfill, road subgrade, sidewalk subgrade, curb subgrade, and aggregate base course will be necessary. We estimate 30 site visits will be necessary.

Soil Compaction Testing	30 days x 2 hrs/day x \$70/hr	\$4,200.00
Proctor Test	3 tests x \$100/test	\$300.00
Gradation Test	3 tests x \$50/test	\$150.00
Atterberg Limits Test	3 tests x \$70/test	<u>\$210.00</u>
	Subtotal:	\$4,860.00

Asphalt Testing: Asphalt testing on will be necessary. We estimate 3 full days of paving will be necessary.

AC/Gradation Test	5 tests x \$170/test	\$850.00
Max Theoretical Density Test	5 tests x \$90/test	\$450.00
Asphalt Testing	3 days x 8 hrs/day x \$70/hr	<u>\$1,680.00</u>
	Subtotal:	\$2,980.00



Concrete Testing: Concrete testing will be required for the sidewalks, curb, pavement, crosspans, and driveways. We estimate 20 tests will be required.

Concrete Tests	20 tests x \$180/test	<u>\$3,600.00</u>
	Subtotal:	\$3,600.00

TOTAL ESTIMATED FEE: \$11,440.00

It should be emphasized that this estimate is based upon assumptions of actual quantities and contractor's schedule. The fee will be charged only for the actual hours and unit rates presented for tests and observations requested by the owner, contractor or subcontractors who schedule the services.

If we can be of further assistance, please contact us at your convenience.

Very truly yours,  
CTL | THOMPSON, INC.

Heather Grubb  
Field Department Manager