

**AGENDA ITEM EXECUTIVE SUMMARY**

Agenda Item number: 5.e

Title:

Recommendation to Approve Professional Service Agreement for the IL Rt. 31 & Roosevelt Sewer Main Replacement

Presenter:

Tim Wilson

Meeting: Government Services Committee

Date: November 25, 2019

Proposed Cost: \$239,618

Budgeted Amount: \$275,000

Not Budgeted: ☐**Executive Summary** *(if not budgeted please explain):*

The design portion of the IL Rt. 31 and Roosevelt sewer trunk main replacement project is budgeted for this fiscal year. Currently the existing sewer main is in poor condition, undersized for growth and past its useful life. This project will replace and upsize approximately 1,550 liner feet of clay sanitary sewer main along Rt. 31 between Roosevelt and Mosedale Street. In addition, the project is proposing to replace an additional 2,200 liner feet along Roosevelt between IL Rt. 31 and Elm Street.

The project contract will include the design engineering, easements, permitting and bidding documents with the anticipated construction bid advertisements being distributed towards the end of 2020.

City staff followed a two-step process for Engineering Procurement based on the qualifications selection. The first step of this process is to issue a Request for Qualifications (RFQ). On October 21, 2019, the City received eight (8) RFQ submissions. City staff evaluated the RFQ submittals and ranked the firms based on the standard criteria. The second step of the process is negotiating the contract and scope of work. The City started the negotiating phase on November 1, 2019.

As a result of this process, staff selected and negotiated fees with Engineering Enterprises Inc. The engineering fees associated with this project are based on cumulative hourly rates not to exceed the total project cost. Based on the complexity and size of the project, the proposal rates provided are comparable to several other Environmental Services projects. The City attorney has reviewed the contract and the recommended changes made.

Attachments *(please list):*

* Proposed Project Map * IL Rt. 31 & Roosevelt Trunk Main Design Professional Services Agreement

Recommendation/Suggested Action *(briefly explain):*

Recommendation to approve Professional Services Agreement for the IL Rt. 31 and Roosevelt Sewer Main Design to Engineering Enterprises Inc. for \$239,618.

Legend

 Trunk Sewer Limits



Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
(630) 466-6700
www.eeiweb.com

City of St. Charles
2 East Main Street
St. Charles, IL 60174
(630) 377-4400

DATE: November 2019
PROJECT NO.: SR1911
BY: MJT
PATH: H:\GIS\Public\St Charles\2019\SR1911\SR1911_Extent 1.mxd
FILE: SR1911_RT 31 Trunk Sewer

**ROUTE 31 & ROOSEVELT ST
TRUNK SEWER MAIN
REPLACEMENT**

ATTACHMENT D

N



Engineering Enterprises, Inc.

November 8, 2019

Mr. Tim Wilson
Public Works Manager - Environmental Services
City of St. Charles
Two East Main Street
St. Charles, IL 60174

**Re: IL Rte 31 & Roosevelt Trunk Sewer Main Replacement
City of St. Charles, Illinois**

Dear Mr. Wilson:

In accordance with your request, enclosed for your review and consideration is our proposed agreement to provide design services for the project. The agreement includes a detailed scope of services, estimate of level of effort and associated cost and schedule for the project.

We look forward to continuing our outstanding partnership with the City and look forward to working with you and members of your staff on this project. If you have any questions or require any additional information, please do not hesitate to contact me.

Respectfully submitted,

ENGINEERING ENTERPRISES, INC.

Jeffrey W. Freeman, P.E., CFM, LEED AP
Vice President

JWF/ars

Enclosures

pc: JAM, DMT, ARS, BPS – EEI (Via E-mail)

G:\Public\St. Charles\2019\SR1911 Rt 31 & Roosevelt Truck Sewer Main Replacement RFQ\PSA\SR1911 Cover Letter.doc

**ATTACHMENT A
AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES**

This Agreement, by and between the City of St. Charles, Kane and DuPage Counties, Illinois, hereafter referred to as the OWNER, and Engineering Enterprises, Inc., Sugar Grove, Illinois hereinafter referred to as the ENGINEER:

ENGINEER agrees to furnish to the City the following services: The ENGINEER shall provide any and all necessary engineering services to the City as indicated on the attached exhibits. Design engineering will be provided for approximately 3,750 linear feet of 21-inch sanitary sewer improvements on Roosevelt Street and Rt 31 (see Attachment D for project limits). Engineering Services assume routing of the sanitary sewer within Rt 31 right-of-way. Engineering will be in accordance with all City, Standard Specifications for Water and Sewer Construction in Illinois, Illinois Department of Transportation, and Illinois Environmental Protection Agency requirements.

WITNESSETH:

That for and in consideration of the mutual covenants and promises between the parties hereto, it is hereby agreed:

SECTION A - PROFESSIONAL DESIGN ENGINEERING SERVICES

The ENGINEER shall furnish professional design engineering as follows:

1. The ENGINEER will attend conferences with the OWNER, or other interested parties as may be reasonably necessary, as noted in Attachment B.
2. The ENGINEER will perform the necessary preliminary and design engineering to accomplish the detailed design of the project, prepare construction drawings, specifications and contract documents, and prepare a final cost estimate based on the final design. The proposed work items for the design engineering services are as noted in Attachment B.
3. The contract documents furnished by the ENGINEER under Section A shall utilize IEPA endorsed construction contract documents, including Supplemental General Conditions, Contract Change Orders, and partial payment estimates.

(Section A – Continued)

4. Prior to the advertisement for bids, the ENGINEER will provide for each construction contract, not to exceed five copies of detailed drawings, specifications, and contract documents for use by the OWNER, appropriate Federal, State, and local agencies from whom approval of the project must be obtained. The cost of such drawings, specifications, and contract documents shall be included in the basic compensation paid to the ENGINEER.
5. The ENGINEER will furnish additional copies of the drawings, specifications and contract documents as required by prospective bidders, material suppliers, and other interested parties, but may charge them for the reasonable cost of such copies. Upon award of each contract, the ENGINEER will furnish to the OWNER five sets of the drawings, specifications and contract documents for execution. The cost of these sets shall be included in the basic compensation paid to the ENGINEER. Original documents, survey notes, tracings, and the like, except those furnished to the ENGINEER by the OWNER, are and shall remain the property of the ENGINEER.
6. The drawings prepared by the ENGINEER under the provisions of Section A above shall be in sufficient detail to permit the actual location of the proposed improvements on the ground. The ENGINEER shall prepare and furnish to the OWNER without any additional compensation, copies of map(s) showing the general location of needed construction easements and permanent easements and the land to be acquired. Property surveys, property plats, property descriptions, abstracting and negotiations for land rights shall be accomplished by the OWNER, unless the OWNER requests, and the ENGINEER agrees to provide those services. In the event the ENGINEER is requested to provide such services, the ENGINEER shall be additionally compensated as set out in Section C hereof.
7. The ENGINEER further agrees to obtain and maintain, at the ENGINEER's expense, such insurance as will protect the ENGINEER from claims under the Workman's Compensation Act and such comprehensive general liability insurance as will protect the OWNER and the ENGINEER from all claims for bodily injury, death, or property damage which may arise from the performance by the ENGINEER or by the ENGINEER's employees of the ENGINEER's functions and services required under this Agreement.

(Section A – Continued)

8. The ENGINEER will complete the Preliminary and Final Design, specifications and contract documents and submit for approval of the OWNER, and all State regulatory agencies to meet the project schedule as summarized in Attachment C: "Proposed Schedule" dated November 8, 2019.

If the above is not accomplished within the time period specified, this Agreement may be terminated by the OWNER. The time for completion may be extended by the OWNER for a reasonable time if completion is delayed due to unforeseeable cases beyond the control and without the fault or negligence of the ENGINEER.

SECTION B – COMPENSATION FOR ENGINEERING SERVICES

1. The OWNER shall compensate the ENGINEER for the professional engineering services for the Hourly Not-To-Exceed amount of Two Hundred Thirty-Nine Thousand, Six Hundred Eighteen Dollars (\$239,618) as summarized in Attachment B: "Level of Effort and Associated Cost" dated November 8, 2019.
2. The compensation for any additional engineering services authorized by the OWNER pursuant to Section C shall be payable as follows:
 - (a) A sum which equals any charges for work actually completed and invoiced shall be paid at least once per month.

SECTION C – ADDITIONAL ENGINEERING SERVICES

In addition to the foregoing being performed, the following services may be provided UPON PRIOR WRITTEN AUTHORIZATION OF THE OWNER.

1. Laboratory tests, well tests, test wells, specialized geological soils, hydraulic, or other studies recommended by the ENGINEER.
2. Property surveys, detailed description of sites, maps, drawings, or estimates related thereto; assistance in negotiating for land and easement rights.
3. Necessary data and filing maps for litigation, such as condemnation.
4. Redesigns ordered by the OWNER after final plans have been accepted by the OWNER and IEPA.

(Section C – Continued)

5. Appearances before courts or boards on matters of litigation or hearings related to the project. Notwithstanding the above, Owner shall have no obligation to pay for said services should said litigation, hearing or arbitration have been brought on account of ENGINEER's negligent acts.
6. Preparation of environmental impact assessments or environmental impact statements.
7. Making drawings from field measurements of existing facilities when required for planning additions or alterations thereto.
8. Services due to changes in the scope of the Project or its design, including but not limited to, changes in size, complexity, schedule or character of construction.
9. Revising studies or reports which have previously been approved by the OWNER, or when revisions are due to cases beyond the control of the ENGINEER.
10. Preparation of design documents for alternate bids where major changes require additional documents. Major changes shall be generally defined as alternate bids that would require additional design documentation within the plan set (i.e. additional plan views, section views and/or details).
11. Preparation of detailed renderings, exhibits or scale models for the Project.
12. Providing special analysis of the OWNER's needs such as owning and operating analysis, plan for operation and maintenance, OWNER's special operating drawings or charts, and any other similar analysis.
13. The preparation of feasibility studies, appraisals and evaluations, detailed quantity surveys of material and labor, and material audits or inventories by the OWNER.
14. Additional or extended services during construction made necessary by (1) work damaged by fire or other cause during construction, (2) defective or incomplete work of the Contractor, and/or (3) the Contractor's default on the Construction Contract due to delinquency or insolvency.
15. Providing design services relating to future facilities, systems and equipment which are not intended to be constructed or operated as a part of the Project.

(Section C – Continued)

16. Providing other services not otherwise provided for in this Agreement, including services normally furnished by the OWNER as described in Section E – SPECIAL PROVISIONS – Owner's Responsibilities.

Payment for the services specified in this Section C shall be as agreed in writing between the OWNER and the ENGINEER prior to commencement of the work. The ENGINEER will render to OWNER for such services an itemized bill, separate from any other billing, once each month, for compensation for services performed hereunder during such period, the same to be due and payable by OWNER to the ENGINEER 30 days after the bill has been received and approved. Payment for services noted in this Section C shall be at Actual Cost (AC), Fixed Fee (FF) or Hourly (HR).

SECTION D - INTEREST ON UNPAID SUMS

OWNER shall make all payments to ENGINEER in accord with the requirements of the Illinois Local Government Prompt Payment Act, 50 ILCS 505/1 et seq., including but not limited to the penalty provisions contained therein.

SECTION E - SPECIAL PROVISIONS

1. OWNER'S RESPONSIBILITIES

- (a) Provide to the ENGINEER all criteria, design and construction standards and full information as to the OWNER's requirements for the Project.
- (b) Designate a person authorized to act as the OWNER's representative. The OWNER or his representative shall receive and examine documents submitted by the ENGINEER, interpret and define the OWNER's policies and render decisions and authorizations in writing promptly to prevent unreasonable delay in the progress of the ENGINEER's services.
- (c) Furnish laboratory tests, air and water pollution tests, reports and inspections of samples, materials or other items required by law or by governmental authorities having jurisdiction over this Project, or as recommended by the ENGINEER.
- (d) Provide legal, accounting, right-of-way acquisition and insurance counseling services necessary for the Project, legal review of the construction Contract Documents, and such auditing services as the OWNER may require to account for expenditures of sums paid to the Contractor.

(Section E – Continued)

- (e) Furnish above services at the OWNER's expense and in such manner that the ENGINEER may rely upon them in the performance of his services under this Agreement and in accordance with the Project timetable.
 - (f) In the event that the OWNER shall bring any suit, cause of action or counterclaim against the ENGINEER, to the extent that the ENGINEER shall substantially prevail, the party initiating such action shall pay to the ENGINEER the cost and expenses incurred to answer and/or defend such action, including reasonable attorney fees and court costs. In the event that the ENGINEER shall bring any suit, cause of action or counterclaim against the OWNER, to the extent that the OWNER shall substantially prevail, the party initiating such action shall pay to the OWNER the cost and expenses incurred to answer and/or defend such action, including reasonable attorney fees and court costs. In no event shall the ENGINEER or OWNER indemnify any other party for the consequences of that party's negligence, including failure to follow that party's recommendations and direction. In the event a party does not substantially prevail against the other, each party shall pay its own costs, expenses and reasonable attorney fees.
 - (g) Guarantee full and free access for the ENGINEER to enter upon all property required for the performance of the ENGINEER's services under this Agreement.
 - (h) Give prompt written notice to the ENGINEER whenever the OWNER observes or otherwise becomes aware of any defect in the Project or other event which may substantially affect the ENGINEER's performance of services under this Agreement.
 - (i) Protect and preserve all survey stakes and markers placed at the project site prior to the assumption of this responsibility by the Contractor and bear all costs of replacing stakes or markers damaged or removed during said time interval.
2. All original documents, including but not limited to ideas, designs, drawings and specifications, are to remain the property of the ENGINEER, however, the ENGINEER shall provide signed duplicate originals of same to the OWNER. Modifications of any signed duplicate original document not authorized by ENGINEER will be at OWNER's sole risk and without legal liability to the ENGINEER. Use of any incomplete, unsigned document will, likewise, be at the OWNER's sole risk and without legal liability to the ENGINEER.

(Section E – Continued)

3. Delegation of Duties - Neither the OWNER nor the ENGINEER shall delegate his duties under this Agreement without the written consent of the other.
4. Extent of Agreement - This Agreement represents the entire and integrated Agreement between the OWNER and the ENGINEER and supersedes all prior negotiations, representations or agreement, either written or oral. This Agreement may be amended only by written instrument signed by the OWNER and the ENGINEER.
5. Governing Law - Unless otherwise specified within this Agreement, this Agreement shall be governed by the law of the State of Illinois in the Counties of Kane and DuPage.
6. In the event any provisions of this Agreement shall be held to be invalid and unenforceable, the remaining provisions shall be valid and binding upon the parties.
7. The ENGINEER has not been retained or compensated to provide design services relating to the Contractor's safety precautions or to means, methods, techniques, sequences, or procedures required by the Contractor to perform his work but not relating to the final or completed structure; omitted services include but are not limited to shoring, scaffolding, underpinning, temporary retainment of excavations and any erection methods and temporary bracing.
8. The ENGINEER shall render his services under this Agreement in accordance with generally accepted professional practices for the intended use of the Project.
9. Since the ENGINEER has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s) methods of determining prices, or over competitive bidding or market conditions, his opinions of probable Project Costs and Construction Costs provided for herein are to be made on the basis of his experience and qualifications and represent his best judgment as an experienced and qualified professional engineer, familiar with the construction industry; but the ENGINEER cannot and does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable cost prepared by him. If prior to the bidding or negotiating phase OWNER wishes greater assurance as to project or construction costs he shall employ an independent cost estimator.

(Section E – Continued)

10. TERMINATION

- (a) Should the OWNER decide to abandon, discontinue, or terminate the Project at any stage of development, the ENGINEER shall receive seven (7) days written notice and be compensated for their services through the appropriate fee schedule provided for in the Agreement to date of abandonment, discontinuance or termination.
- (b) In the event the project is delayed for causes beyond the control of the ENGINEER for a period of six months or more, the ENGINEER shall be paid for his services to the beginning of the delay on the basis of actual cost– “actual cost” being defined as material costs plus actual payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expense will be reimbursed to the ENGINEER at his actual cost.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in duplicate on the respective dates indicated below.

(SEAL)

OWNER: City of St. Charles

By _____

ATTEST _____

Print Name _____

Print Name _____

Title _____

Title _____

Date _____

(SEAL)

ENGINEER: Engineering Enterprises, Inc.

By Jeffrey W. Freeman (AS)

ATTEST Angie Smith

Print Name Jeffrey W. Freeman, P.E., CFM, LEED AP

Print Name Angie R. Smith

Title Vice President

Title Executive Assistant

Date 11/8/19



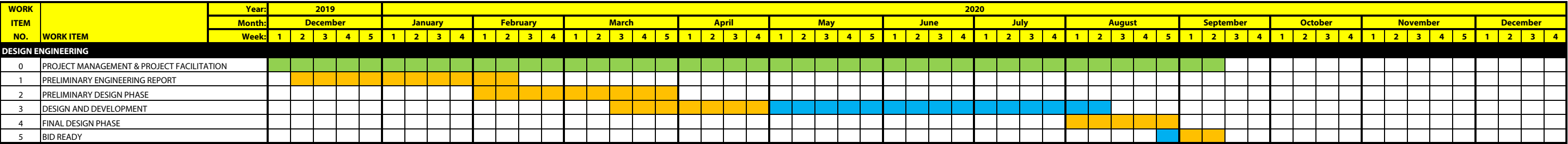
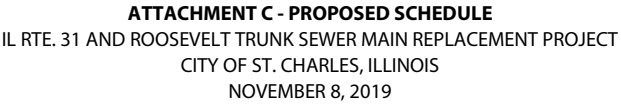
ATTACHMENT B - ESTIMATE OF LEVEL OF EFFORT
PROFESSIONAL ENGINEERING SERVICES
IL RTE 31 AND ROOSEVELT TRUNK SEWER MAIN REPLACEMENT PROJECT
CITY OF ST. CHARLES, ILLINOIS
NOVEMBER 8, 2019



| WORK ITEM NO. | WORK ITEM | ENTITY: | ENGINEERING | | | | | SURVEYING | | | DRAFTING | | ADMIN. | WORK ITEM HOUR SUMM. | COST PER ITEM | |
|---|---|---------------|---------------------------|-------|--------------------|------------------|----------|------------------------------|--------------------|-----------------------------------|----------------|---------------------------------|--------|-------------------------------|---------------------|---------|
| | | PROJECT ROLE: | PRINCIPAL IN CHARGE | QC/QA | PROJECT MANAGER | LEAD DESIGNER | DESIGNER | SENIOR PROJECT MANAGER | PROJECT MANAGER | SENIOR PROJECT TECHNICAL II | CAD MANAGER | SENIOR PROJECT TECHNICIAN | ADMIN. | | | |
| | | HOURLY RATE: | \$208 | \$208 | \$197 | \$165 | \$141 | \$197 | \$178 | \$153 | \$178 | \$141 | \$70 | | | |
| PROJECT MANAGEMENT & PROJECT FACILITATION | | | | | | | | | | | | | | | | |
| 0.1 | Kick-off Meeting with City Staff | | 3 | | 8 | 8 | | | | | | | | 19 | \$ | 3,520 |
| 0.2 | Evaluate and Determine Project Schedule | | 1 | | 4 | 4 | | | | | | | | 9 | \$ | 1,656 |
| 0.3 | Schedule and Facilitate Progress Meetings | | 10 | | 20 | 20 | | | | | | | | 50 | \$ | 9,320 |
| 0.4 | Review of Existing Information | | | | 8 | 8 | | | | | | | | 16 | \$ | 2,896 |
| 0.5 | Monthly Status Reports to City | | | | 12 | 12 | | | | | | | | 24 | \$ | 4,344 |
| Project Management & Project Facilitation Subtotal: | | | 14 | - | 52 | 52 | - | - | - | - | - | - | - | 118 | \$ | 21,736 |
| PRELIMINARY ENGINEERING REPORT | | | | | | | | | | | | | | | | |
| 1.1 | Prepare Alternative Concept Designs (Incl. Site Visits) | | | 2 | 8 | 16 | | | | | | 8 | | 34 | \$ | 5,760 |
| 1.2 | Preliminary Topographic Survey | | | 1 | 2 | 6 | 6 | 20 | 20 | | | | | 55 | \$ | 9,938 |
| 1.3 | Coordinate Geotechnical Investigation (12 Borings Minimum) | | | | 3 | 6 | 3 | | | | | | | 12 | \$ | 2,004 |
| 1.4 | Meet with City and IDOT | | 4 | | 4 | 4 | | | | | | | | 12 | \$ | 2,280 |
| 1.5 | Easement Research along west side of Route 31 | | | | 1 | 1 | | 6 | | | | | | 8 | \$ | 1,544 |
| 1.6 | Prepare Alternative Concept Designs | | | 2 | 10 | 16 | | | | | | 8 | | 36 | \$ | 6,154 |
| 1.7 | Meeting and Presentation of Alternative Designs w/City | | 3 | | 3 | 3 | | | | | | | | 9 | \$ | 1,710 |
| 1.8 | Prepare Concept Level Cost Estimates for Top 2 Alternatives | | | 1 | 3 | 16 | 4 | | | | | | | 24 | \$ | 4,003 |
| 1.9 | Meeting with City Staff to Review Top 2 Concept Design Alternatives | | 3 | | 3 | 3 | | | | | | | 2 | 11 | \$ | 1,850 |
| 1.10 | Develop Final Concept Design | | | 2 | 10 | 22 | 8 | | | | | 8 | | 50 | \$ | 8,272 |
| 1.11 | Prepare Final Concept Cost Estimate | | | 1 | 2 | 6 | 6 | | | | | | | 15 | \$ | 2,438 |
| Preliminary Engineering Report Subtotal: | | | 10 | 9 | 49 | 99 | 27 | 26 | 20 | - | - | 24 | 2 | 266 | \$ | 45,953 |
| PRELIMINARY DESIGN PHASE | | | | | | | | | | | | | | | | |
| 2.1 | Investigate Existing Conditions | | | | 6 | 8 | 6 | | | | | | | 20 | \$ | 3,348 |
| 2.2 | Conduct Topographic Survey | | | | 1 | 4 | | 30 | | 60 | | | | 95 | \$ | 15,947 |
| 2.3 | Prepare Preliminary Plans (25% Design) | | | | 12 | 24 | | | | | 8 | 24 | | 68 | \$ | 11,132 |
| 2.4 | Meet with City to Review Preliminary Plans (25% Design) | | 3 | | 3 | 3 | | | | | | | | 9 | \$ | 1,710 |
| 2.5 | Meet with City and IDOT | | 4 | | 4 | 4 | | | | | | | | 12 | \$ | 2,280 |
| Preliminary Design Phase Subtotal: | | | 7 | - | 26 | 43 | 6 | 30 | - | 60 | 8 | 24 | - | 204 | \$ | 34,417 |
| DESIGN AND DEVELOPMENT | | | | | | | | | | | | | | | | |
| 3.1 | Prepare Final Plans and Specifications - 60% | | 1 | 2 | 24 | 120 | 40 | | | | 20 | 80 | 1 | 288 | \$ | 45,702 |
| 3.2 | Prepare Opinion of Probable Cost - 60% | | | | 4 | 4 | 4 | | | | | | | 12 | \$ | 2,012 |
| 3.3 | Coordination with Subcontractors | | | | 4 | 8 | 4 | | | | | | | 16 | \$ | 2,672 |
| 3.4 | Prepare Final Plans and Specifications - 95% | | 1 | 4 | 12 | 45 | 35 | | | | 20 | 80 | 1 | 198 | \$ | 30,674 |
| 3.5 | Prepare Opinion of Probable Cost - 95% | | | | 2 | 15 | 15 | | | | | | | 32 | \$ | 4,984 |
| 3.6 | Furnish 95% Documents to the City and Permitting Agencies | | | | 4 | 8 | | | | | | | | 12 | \$ | 2,108 |
| 3.7 | Permit Coordination | | | | 4 | 8 | 8 | | | | | | 1 | 21 | \$ | 3,306 |
| Design And Development Subtotal: | | | 2 | 6 | 54 | 208 | 106 | - | - | - | 40 | 160 | 3 | 579 | \$ | 91,458 |
| FINAL DESIGN PHASE | | | | | | | | | | | | | | | | |
| 4.1 | Plan Revisions per Reviewing Agencies | | | | 8 | 16 | 8 | | | | 4 | 16 | | 52 | \$ | 8,312 |
| 4.2 | Acquisition of Permits | | | | 8 | 14 | 8 | | | | | | | 30 | \$ | 5,014 |
| 4.3 | Prepare Final Plans and Specifications - 100% | | | 1 | 8 | 12 | | | | | 4 | 16 | 1 | 42 | \$ | 6,802 |
| 4.4 | Prepare Opinion of Probable Cost - 100% | | | 1 | 6 | 8 | | | | | | | 1 | 16 | \$ | 2,780 |
| Final Design Phase Subtotal: | | | - | 2 | 30 | 50 | 16 | - | - | - | 8 | 32 | 2 | 140 | \$ | 22,908 |
| BID READY | | | | | | | | | | | | | | | | |
| 5.1 | Provide 100% Complete Documents to the City | | | | 1 | 1 | | | | | | | 1 | 3 | \$ | 432 |
| Bid Ready Subtotal: | | | - | - | 1 | 1 | - | - | - | - | - | - | 1 | 3 | \$ | 432 |
| PROJECT TOTAL: | | | 33 | 17 | 212 | 453 | 155 | 56 | 20 | 60 | 56 | 240 | 8 | 1,310 | \$ | 216,904 |

| DIRECT EXPENSES | |
|-----------------------|-----------|
| Printing = | \$ 100 |
| Geotechnical (Rubino) | \$ 17,614 |
| CCDD (Rubino) | \$ 5,000 |
| | |
| DIRECT EXPENSES = | \$ 22,714 |

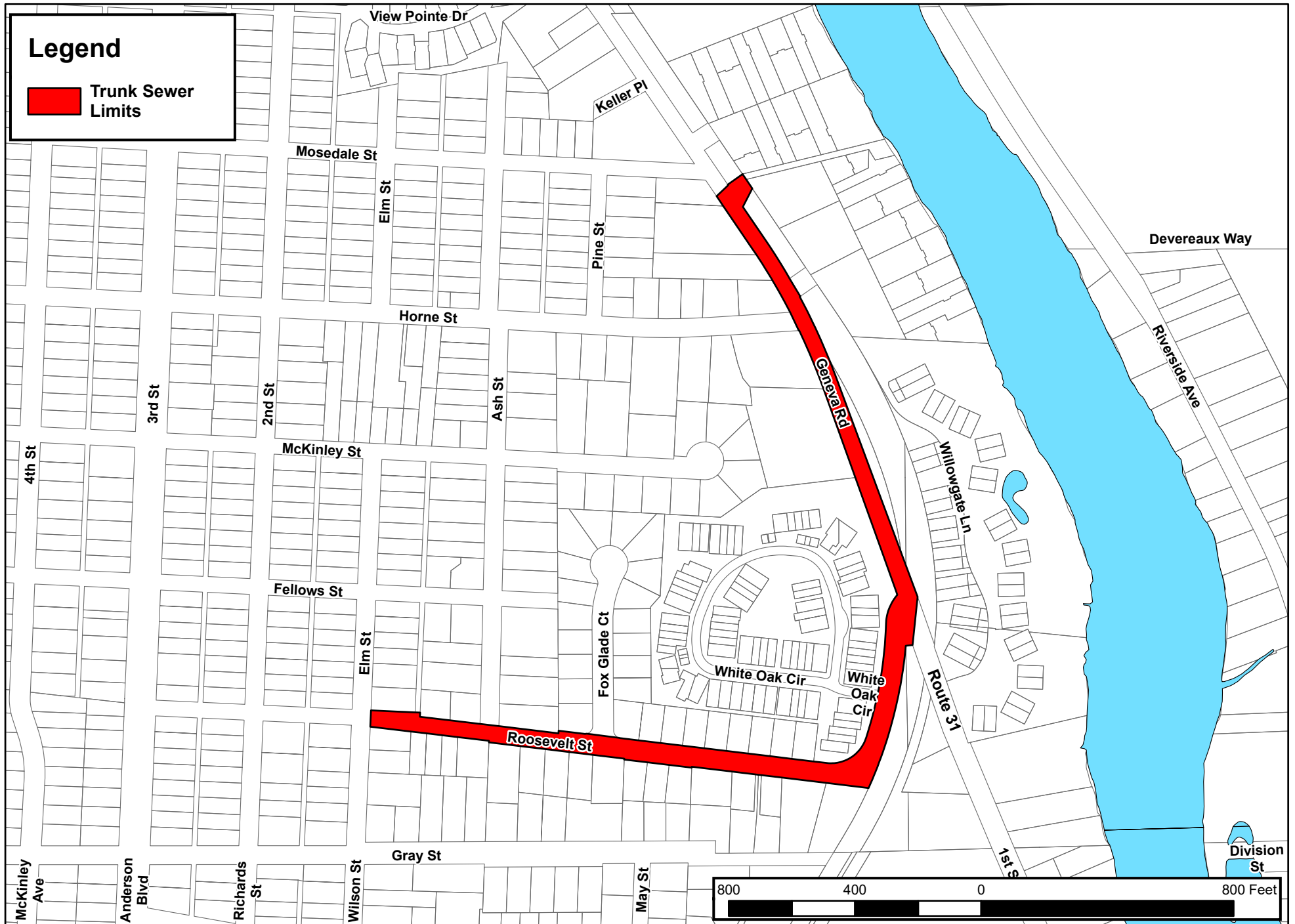
| LABOR SUMMARY | |
|-----------------------------|------------|
| Engineering Expenses = | \$ 148,764 |
| Surveying Expenses = | \$ 23,772 |
| Drafting Expenses = | \$ 43,808 |
| Administrative Expenses = | \$ 560 |
| TOTAL LABOR EXPENSES = | \$ 216,904 |
| TOTAL EXPENSES = \$ 239,618 | |



| Legend | |
|--------|-------------------------------------|
| | Project Management and Facilitation |
| | Engineering |
| | Permitting |

Legend

 Trunk Sewer Limits





Standard Schedule of Charges

January 1, 2019

| EMPLOYEE DESIGNATION | CLASSIFICATION | HOURLY RATE |
|---|----------------|-------------|
| Senior Principal | E-4 | \$208.00 |
| Principal | E-3 | \$203.00 |
| Senior Project Manager | E-2 | \$197.00 |
| Project Manager | E-1 | \$178.00 |
| Senior Project Engineer/Planner/Surveyor II | P-6 | \$165.00 |
| Senior Project Engineer/Planner/Surveyor I | P-5 | \$153.00 |
| Project Engineer/Planner/Surveyor | P-4 | \$141.00 |
| Senior Engineer/Planner/Surveyor | P-3 | \$129.00 |
| Engineer/Planner/Surveyor | P-2 | \$117.00 |
| Associate Engineer/Planner/Surveyor | P-1 | \$106.00 |
| Senior Project Technician II | T-6 | \$153.00 |
| Senior Project Technician I | T-5 | \$141.00 |
| Project Technician | T-4 | \$129.00 |
| Senior Technician | T-3 | \$117.00 |
| Technician | T-2 | \$106.00 |
| Associate Technician | T-1 | \$ 93.00 |
| Engineering/Land Surveying Intern | I-1 | \$ 84.00 |
| GIS Technician | G-1 | \$ 75.00 |
| Administrative Assistant | A-3 | \$ 70.00 |

CREW RATES, VEHICLES AND REPROGRAPHICS

| | |
|---|--|
| 1 Man Field Crew with Standard Survey Equipment | \$168.00 |
| 2 Man Field Crew with Standard Survey Equipment | \$262.00 |
| 1 Man Field Crew with RTS or GPS * | \$208.00 |
| 2 Man Field Crew with RTS or GPS * | \$302.00 |
| Vehicle for Construction Observation | \$15.00 |
| In-House Scanning and Reproduction | \$0.25/Sq. Ft. (Black & White) \$1.00/Sq. Ft. (Color) |
| Reimbursable Direct Costs & Services by Others | Cost + 10% |

*RTS = Robotic Total Station / GPS = Global Positioning System