

REQUEST AUTHORIZATION FOR MAYOR AND FINANCE OFFICER TO SIGN PROFESSIONAL SERVICES AGREEMENT OR AMENDMENT

Date:

Project Name & Number: Trunk Sewer Master Plan – East Blvd to St. Patrick Street – Project Number 16-2353 **CIP #:** 50878

Project Description: This project is for preliminary design of a trunk sewer between East Blvd and St. Joseph Street to determine pipe diameter and routing. The consultant will provide preliminary sewer design information to be used in the construction plans for the reconstruction of East Blvd and Omaha Street (Project No. 14-2170).

Consultant: FMG, Inc.

Original Contract Amount: \$54,345.00 **Original Contract Date:** March 21, 2017 **Original Completion Date:** December 31, 2017

Addendum No:

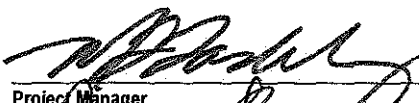


Amendment Description:



Current Contract Amount: _____ **Current Completion Date:** _____
Change Requested: _____
New Contract Amount: _____ \$0.00 **New Completion Date:** _____

Funding Source This Request:

Amount	Dept.	Line Item	Fund	Comments
\$54,345.00	833	4380	604	
		4003		
\$54,345.00	Total			

Agreement Review & Approvals

 3-6-17
 Project Manager _____ Date
 3-6-17
 Compliance Specialist _____ Date
 3-7-17
 City Attorney _____ Date

 3-7-17
 Division Manager _____ Date
 3-7-17
 Department Director _____ Date

ROUTING INSTRUCTIONS

Route two originals of the Agreement for review and signatures.
 Finance Office - Retain one original
 Project Manager - Retain second original for delivery to Consultant
 cc: Public Works
 Engineering
 Project Manager

FINANCE OFFICE USE ONLY

(Note to Finance: Please write date of Agreement in appropriate space in the Agreement document)

	Date	Initials	Approved
Appropriation	3/8/17	JW	Y N
Cash Flow			Y N

**Agreement Between City of Rapid City and FMG, Inc. for Design and Bidding
Professional Services for Trunk Sewer Master Plan – East Blvd to St. Patrick
Street,
Project No. 16-2353**

AGREEMENT made March 21, 2017, between the City of Rapid City, SD (City) and FMG, Inc., (Engineer), located at 3700 Sturgis Road, Rapid City, SD 57702. City intends to obtain services for design and bidding for the Trunk Sewer Master Plan – East Blvd to St. Patrick Street, Project No. 16-2353 CIP No. 50878. The scope of services is as described within this document and as further described in Exhibits A, B and C (attached).

The City and the Engineer agree as follows:

The Engineer shall provide professional engineering services for the City in all phases of the Project and as further defined in Exhibits A, B and C (attached), serve as the City's professional engineering representative for the Project, and give professional engineering consultation and advice to the City while performing its services.

Section 1—Basic Services of Engineer

1.1 General

- 1.1.1 The Engineer shall perform professional services described in this agreement, which include customary engineering services. Engineer intends to serve as the City's professional representative for those services as defined in this agreement and to provide advice and consultation to the City as a professional. Any opinions of probable project cost, approvals, and other decisions provided by Engineer for the City are rendered on the basis of experience and qualifications and represent Engineer's professional judgment.
- 1.1.2 All work shall be performed by or under the direct supervision of a professional Engineer licensed to practice in South Dakota.
- 1.1.3 All documents including Drawings and Specifications provided or furnished by Engineer pursuant to this Agreement are instruments of service in respect of the Project and Engineer shall retain an ownership therein. Reuse of any documents pertaining to this project by the City on extensions of this project or on any other project shall be at the City's risk. The City agrees to defend, indemnify, and hold harmless Engineer from all claims, damages, and expenses including attorney's fees arising out of such reuse of the documents by the City or by others acting through the City.



- 1.1.4 The contract will be based on an hourly rate and reimbursable fee schedule with a maximum not-to-exceed amount.

1.2 Scope of Work

The Engineer shall:

- 1.2.1 Consult with the City, other agencies, groups, consultants, and/or individuals to clarify and define requirements for the Project and review available data.
- 1.2.2 Perform the tasks described in the Scope of Services. (See Exhibit A.)
- 1.2.3 Conduct a location survey of the Project to the extent deemed necessary to provide adequate site information.
- 1.2.4 Prepare a report presenting the results of the study as outlined in the scope of services.

Section 2—Information Provided by City

The City will provide any information in its possession for the project at no cost to the Engineer.

Section 3—Notice to Proceed

The City will issue a written notification to the Engineer to proceed with the work. The Engineer shall not start work prior to receipt of the written notice. The Engineer shall not be paid for any work performed prior to receiving the Notice to Proceed.

Section 4—Mutual Covenants

4.1 General

- 4.1.1 The Engineer shall not sublet or assign any part of the work under this Agreement without written authority from the City.
- 4.1.2 The City and the Engineer each binds itself and partners, successors, executors, administrators, assigns, and legal representatives to the other party to this agreement and to the partners, successors, executors, administrators, assigns, and legal representatives of such other party, regarding all covenants, agreements, and obligations of this agreement.
- 4.1.3 Nothing in this agreement shall give any rights or benefits to anyone other than the City and the Engineer.



- 4.1.4 This agreement constitutes the entire agreement between the City and the Engineer and supersedes all prior written or oral understandings. This agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.
- 4.1.5 The Engineer shall make such revisions in plans which may already have been completed, approved, and accepted by the City, as are necessary to correct Engineer's errors or omissions in the plans, when requested to do so by the City, without extra compensation therefore.
- 4.1.6 If the City requests that previously satisfactorily completed and accepted plans or parts thereof be revised, the Engineer shall make the revisions requested by the City. This work shall be paid for as extra work.
- 4.1.7 If the City changes the location from the one furnished to the Engineer, or changes the basic design requiring a new survey for the portions so changed, the redesign will be paid for as extra work.
- 4.1.8 The City may at any time by written order make changes within the general scope of this Agreement in the work and services to be performed by the Engineer. Any changes which materially increase or reduce the cost of or the time required for the performance of the Agreement shall be deemed a change in the scope of work for which an adjustment shall be made in the Agreement price or of the time for performance, or both, and the Agreement shall be modified in writing accordingly. Additional work necessary due to the extension of project limits shall be paid for as extra work.
- 4.1.9 Extra work, as authorized by the City, will be paid for separately and be in addition to the consideration of this Section.
- 4.1.10 For those projects involving conceptual or process development services, activities often cannot be fully defined during the initial planning. As the project does progress, facts and conditions uncovered may reveal a change in direction that may alter the scope of services. Engineer will promptly inform the City in writing of such situations so that changes in this agreement can be renegotiated.
- 4.1.11 This Agreement may be terminated (a) by the City with or without cause upon seven days' written notice to the Engineer and (b) by the Engineer for cause upon seven days' written notice to the City. If the City terminates the agreement without cause, the Engineer will be



paid for all services rendered and all reimbursable expenses incurred prior to the date of termination.

If termination is due to the failure of the Engineer to fulfill its agreement obligations, the City may take over the work and complete it. In such case, the Engineer shall be liable to the City for any additional cost to the extent directly resulting from Engineer's action.

- 4.1.12 The City or its duly authorized representatives may examine any books, documents, papers, and records of the Engineer involving transactions related to this agreement for three years after final payment. All examinations will be performed at reasonable times, with proper notice. Engineer's documentation will be in a format consistent with general accounting procedures.
- 4.1.13 The City shall designate a representative authorized to act on the City's behalf with respect to the Project. The City or such authorized representative shall render decisions in a timely manner pertaining to documents submitted by the Engineer in order to avoid unreasonable delay in the orderly and sequential progress of the Engineer's services.
- 4.1.14 Costs and schedule commitments shall be subject to renegotiation for delays caused by the City's failure to provide specified facilities or information or for delays caused by other parties, excluding sub-contractors and sub-consultants, unpredictable occurrences including without limitation, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults by suppliers of materials or services, process shutdowns, acts of God, or the public enemy, or acts of regulations of any governmental agency or any other conditions or circumstances beyond the control of the City or Engineer. Temporary delays of services caused by any of the above which results in additional costs beyond those outlined may require renegotiation of this agreement.
- 4.1.15 The City will give prompt written notice to the Engineer if the City becomes aware of any fault or defect in the Project or nonconformance with the Project Documents.
- 4.1.16 Unless otherwise provided in this Agreement, the Engineer and the Engineer's consultants shall have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to hazardous materials in any form at the project site, including but not limited to asbestos products, polychlorinated biphenyl (PCB), or other toxic substances.



- 4.1.17 In the event asbestos or toxic materials are encountered at the jobsite, or should it become known in any way that such materials may be present at the jobsite or any adjacent areas that may affect the performance of Engineer's services, Engineer may, at their option and without liability for consequential or any other damages, suspend performance of services on the project until the City retains appropriate specialist CONSULTANT(S) or contractor(s) to identify, abate, and/or remove the asbestos or hazardous or toxic materials.
- 4.1.18 This agreement, unless explicitly indicated in writing, shall not be construed as giving Engineer the responsibility or authority to direct or supervise construction means, methods, techniques, sequences, or procedures of construction selected by any contractors or subcontractors or the safety precautions and programs incident to the work of any contractors or subcontractors.
- 4.1.19 Neither the City nor the Engineer, nor its Consultants, shall hold the other liable for any claim based upon, arising out of, or in any way involving the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids, or gases, waste materials, or other irritants, contaminants, or pollutants.
- 4.1.20 Neither the City nor the Engineer, nor its Consultants, shall hold the other liable for any claim based upon, arising out of, or any way involving the specification or recommendation of asbestos, in any form, or any claims based upon use of a product containing asbestos.
- 4.1.21 Engineer hereby represents and warrants that it does not fail or refuse to collect or remit South Dakota or City sales or use tax for transactions which are taxable under the laws of the State of South Dakota.

4.2 City of Rapid City NonDiscrimination Policy Statement

In compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination act of 1975, the Americans with Disabilities Act of 1990, and other nondiscrimination authorities it is the policy of the City of Rapid City, 300 Sixth Street, Rapid City, SD 57701-5035, to provide benefits, services, and employment to all persons without regard to race, color, national origin, sex, disabilities/handicaps, age, or income status. No distinction is made among any persons in eligibility for the reception of benefits and services provided by or through the auspices of the City of Rapid City.

Engineer will permit access to any and all records pertaining to hiring and employment and to other pertinent data and records for the purpose of enabling the Commission, its agencies or representatives, to ascertain compliance with the above provisions.



This section shall be binding on all subcontractors or suppliers.

Section 5—Payments to the Engineer

5.1 Schedule of Pay Rates

The City will pay the Engineer for services rendered or authorized extra work according to the Engineer's hourly and reimbursable rate schedule described in Exhibit C.

5.2 Fee

The maximum amount of the fee for the services as detailed in Section 1.2 shall not exceed \$53,385.00 unless the scope of the project is changed as outlined in Section 4. If expenses exceed the maximum amount, the Engineer shall complete the design as agreed upon here without any additional compensation. Sub task dollar amounts may be reallocated to other tasks as long as the total fee is not exceeded. Prime consultant may not mark up sub-consultant or sub-contractor services.

5.3 Progress Payments

Monthly progress payments shall be processed by the City upon receipt of the claim as computed by the Engineer based on work completed during the month per the hourly rates and allowable reimbursable as established in Section 5.1 and approved by the City.

Net payment to the Engineer shall be due within forty-five (45) days of receipt by the City.

Section 6—Completion of Services

The Engineer shall complete services on or before December 31, 2017 based on an award date of March 21, 2017.

Section 7—Insurance Requirements

7.1 Insurance Required

The Engineer shall secure the insurance specified below. The insurance shall be issued by insurance company(s) acceptable to the City and may be in a policy or policies of insurance, primary or excess. Certificates of all required insurance including any policy endorsements shall be provided to the City prior to or upon the execution of this Agreement.



7.2 Cancellation

The Engineer will provide the City with at least 30 days' written notice of an insurer's intent to cancel or not renew any of the insurance coverage. The Contractor agrees to hold the City harmless from any liability, including additional premium due because of the Contractor's failure to maintain the coverage limits required.

7.3 City Acceptance of Proof

The City's approval or acceptance of certificates of insurance does not constitute City assumption of responsibility for the validity of any insurance policies nor does the City represent that the coverages and limits described in this agreement are adequate to protect the Engineer, its consultants or subcontractors interests, and assumes no liability therefore. The Engineer will hold the City harmless from any liability, including additional premium due, because of the Engineer's failure to maintain the coverage limits required.

7.4 Specific Requirements

- 7.4.1 Workers' compensation insurance with statutory limits required by South Dakota law. Coverage B-Employer's Liability coverage of not less than \$500,000 each accident, \$500,000 disease-policy limit, and \$500,000 disease-each employee.
- 7.4.2 Commercial general liability insurance providing occurrence form contractual, personal injury, bodily injury and property damage liability coverage with limits of not less than \$1,000,000 per occurrence, \$2,000,000 general aggregate, and \$2,000,000 aggregate products and completed operations. If the occurrence form is not available, claims-made coverage shall be maintained for three years after completion of the terms of this agreement. The policy shall name the City and its representatives as an additional insured.
- 7.4.3 Automobile liability insurance covering all owned, nonowned, and hired automobiles, trucks, and trailers. The coverage shall be at least as broad as that found in the standard comprehensive automobile liability policy with limits of not less than \$1,000,000 combined single limit each occurrence. The required limit may include excess liability (umbrella) coverage.
- 7.4.4 Professional liability insurance providing claims-made coverage for claims arising from the negligent acts, errors or omissions of the Engineer or its consultants, of not less than \$1,000,000 each occurrence and not less than \$1,000,000 annual aggregate.



Coverage shall be maintained for at least three years after final completion of the services.

Section 8—Hold Harmless

The Engineer hereby agrees to hold the City harmless from any and all claims or liability including attorneys' fees arising out of the professional services furnished under this Agreement, and for bodily injury or property damage arising out of services furnished under this Agreement, providing that such claims or liability are the result of a negligent act, error or omission of the Engineer and/or its employees/agents arising out of the professional services described in the Agreement.

Section 9—Independent Business

The parties agree that the Engineer operates an independent business and is contracting to do work according to his own methods, without being subject to the control of the City, except as to the product or the result of the work. The relationship between the City and the Engineer shall be that as between an independent contractor and the City and not as an employer-employee relationship. The payment to the Engineer is inclusive of any use, excise, income or any other tax arising out of this agreement.

Section 10-Indemnification

If this project involves construction and Engineer does not provide consulting services during construction including, but not limited to, onsite monitoring, site visits, site observation, shop drawing review and/or design clarifications, City agrees to indemnify and hold harmless Engineer from any liability arising from the construction activities undertaken for this project, except to the extent such liability is caused by Engineer's negligence.

Section 11-Controlling Law and Venue

This Agreement shall be subject to, interpreted and enforced according to the laws of the State of South Dakota, without regard to any conflicts of law provisions. Parties agree to submit to the exclusive venue and jurisdiction of the State of South Dakota, 7th Judicial Circuit, Pennington County.

Section 12-Severability

Any unenforceable provision herein shall be amended to the extent necessary to make it enforceable; if not possible, it shall be deleted and all other provisions shall remain in full force and effect.



Section 13—Funds Appropriation

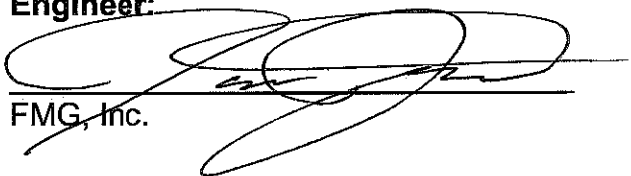
If funds are not budgeted or appropriated for any fiscal year for services provided by the terms of this agreement, this agreement shall impose no obligation on the City for payment. This agreement is null and void except as to annual payments herein agreed upon for which funds have been budgeted or appropriated, and no right of action or damage shall accrue to the benefit of the Engineer, its successors or assignees, for any further payments. For future phases of this or any project, project components not identified within this contract shall not constitute an obligation by the City until funding for that component has been appropriated.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day and year first above written.

City of Rapid City:

Engineer:

MAYOR



FMG, Inc.

DATE: _____

DATE: 3/2/17

ATTEST:

FINANCE OFFICER

Reviewed By:



Michelle Lashley, PROJECT MANAGER

DATE: 3/2/17

CITY'S DESIGNATED PROJECT REPRESENTATIVE

ENGINEERING FIRM'S DESIGNATED PROJECT REPRESENTATIVE

NAME Michelle Lashley
PHONE 605-394-4154
EMAIL michelle.lashley@rcgov.org

NAME Jason Pettyjohn
PHONE 605-342-4105
EMAIL jpettyjohn@fmgenengineering.com



EXHIBIT A

SCOPE OF SERVICES

TRUNK SEWER MASTER PLAN – EAST BLVD. TO ST. PATRICK STREET

PROJECT NO. 16-2353 CIP 50878

The City of Rapid City has determined the need to procure professional services for Preliminary Design for the Trunk Sewer between East Boulevard and St. Patrick Street.

The scope of this project is to determine the required size of trunk sewer beginning at the intersection of 1st Street and Omaha Street and ending at the 42” trunk sewer near Rapid Creek. The City would like the sewer to be sized for the 2115 flows using the population projections provided by the City of Rapid City. The population is projected to increase by approximately 72% overall, however, the specific area contributing to this trunk sewer should be used.

The size, route and minimum slope will be provided to another consultant to prepare design plans for the reconstruction of the East Boulevard – Omaha Street intersection (CIP 50866). The preparation of design plans are not a part of this scope. The intersection reconstruction is currently scheduled for 2018 and 2019. Timing of this project is critical for inclusion in the design plans.

The project was not identified on the Utility System Master Plan, nor has it been specifically identified in any report. However, a need for review of this trunk sewer was identified during the design of the Southeast Area Trunk Sewer on St. Patrick Street, by City staff, and during the Omaha Street reconstruction project done in 2002 by CETEC. Flow monitoring in 2011 showed that during a significant storm event, the 33” trunk sewer was at capacity, and generally flows approximately 70% full.

It is anticipated that the improvements will include the following:

1. Preliminary design including sizing and routing for a new trunk sewer from East Saint Joseph Street near the SDSM&T Stadium to First Street and Omaha Street. The consultant will evaluate existing utilities, right-of-ways, easements, etc. to aid in the determination of the best route for the future trunk sewer. The sizing and routing will include evaluating one large trunk sewer, or multiple smaller parallel sewers, and at what point the existing parallel sewers should be combined, if at all.
2. The size will be based on the projected 2115 population from the contributing area upstream of this trunk sewer. The slope will be dictated by the route and upstream and downstream connection points.
3. Preliminary design of the sanitary trunk sewer from First Street through the intersection of East Boulevard and Omaha Street. This will include determining the size and best location for the trunk sewer, and providing that information to KLJ for incorporation into the East Boulevard/East North Street Reconstruction project (CIP No. 50866, Project No. 07-2170).



TASK 1 - PRELIMINARY DESIGN SERVICES:

This task consists of all services necessary to take the project from beginning through the Preliminary Design submittal stage, and may include the following itemized services.

- 1.1 Review background information and any other resources as necessary.
- 1.2 Perform a desktop review of potential trunk sewer routes between the intersection of 1st Street and Omaha Street to East Saint Joseph Street across from the O'Hare Stadium using City GIS information and available as-built drawings. Consultant will collect detailed aerial photography of the potential routes with an Unmanned Aerial Vehicle (UAV). Based on the desktop review, preliminary routes will be proposed to the City in the form of a Technical Memorandum with a recommendation of the preferred route based on technical feasibility, constructability, and engineering judgement. The City will review the proposed routes and recommendation and provide the consultant with a decision of the preferred route. Following that concurrence, limited topographic survey of the desired route will commence.
- 1.3 Perform site surveys sufficient for preliminary design plan preparation. Site survey will be limited to verification of critical rim and invert elevations for any proposed sewer connections and potential existing pipe elevations for minimal clearance crossings of other grade critical utilities. The site surveys do not include property boundary surveys. Property boundaries and right-of-ways will be established using parcel data from the City's GIS system. If necessary, the City will provide pothole services for the consultant's surveyors to establish elevations of existing utility crossings. Existing public and private utility locations will be established by record drawings provided by the utility. The route and topography survey shall be tied to at least two City of Rapid City Monument Control system monuments utilizing State Plane coordinates and the NAVD 88 vertical datum.
- 1.4 Private Utilities Base Plan Verification Meeting: The consultant shall send base plans to the private utilities requesting verification that their utilities are shown correctly per their records. A meeting with the private utilities shall be scheduled after submitting plans to verify that the utilities are shown correctly and to make plan revisions as needed.
- 1.5 Meet with individual property owners regarding ROW and permanent and temporary easement needs and regarding specific project issues and components.
- 1.6 Meet with DOT, Railroad, and other entities as necessary regarding proposed sewer locations in State or private Right-of-Way.
- 1.7 Conceptual Design Submittal
The Conceptual Design Submittal shall generally consist of the following documents:
 - A. Conceptual Design Report
Prepare a Conceptual Design Report: The design report shall incorporate the findings of the Technical Memo and the decision process leading to the preferred sewer route. The consultant shall establish and indicate project specific design criteria and standards within



the Conceptual Design Report (including pipe material evaluation). The consultant shall include all design assumptions in the report. The Consultant shall include design life, design criteria, and reference of design resources. The Consultant shall use the City Infrastructure Design Criteria Manual to establish design criteria and standards, or indicate any deviations from the design criteria, and the reason for the deviations.

The Conceptual Design Report shall evaluate and recommend preliminary horizontal and vertical alignments for the trunk sewer main. Establish pipe sizes. Provide justification for the facility and analysis of alternatives. Preliminary design of this project will not include a geotechnical investigation or report. The Consultant shall elaborate on other project components as necessary.

A probable opinion of construction costs for the project(s) shall be included. The costs shall be itemized based on the City's standard bid items and appropriate contingency item allowance.

The consultant shall establish and indicate project specific design criteria and standards within the Conceptual Design Report. Use the City Infrastructure Design Criteria Manual to establish design criteria and standards. The Conceptual Design Report shall provide review of compliance with City's Standard Specifications for construction of the project(s).

Identify the existing right-of-way (ROW) location and any ROW or easements necessary for the Project. Include size and extent of such ROW and easements and contact information of property owners.

Submit three (3) copies and a PDF version of the Conceptual Design Report and preliminary plans and specifications to City of Rapid City's project manager for review and comment.

B. Conceptual Drawings

Provide three (3) copies and a PDF version of the conceptual drawings. The conceptual drawings shall contain the following sheets:

- Cover Sheet – Note the index of Sheets indicating the anticipated drawing sheets shall be provided.
- Survey Control Sheet – The Survey Control sheet shall include control points with Northing, Easting, Elevation, and Description with Station and Offset to the closest alignment. Horizontal alignments including beginning and end stations, and deflections and curve data. Combined ground to grid scale factor and Basis of Bearings.
- Plan and Profile Sheets - Show existing and proposed utility mains and existing services, storm sewers, driveway locations, fittings, and proposed surfacing and drainage items. The utilities should be shown in profile as well.
- Plan sheets shall be prepared utilizing the latest City of Rapid City Drafting Standards. Use current City-provided drawing templates.



- 1.8 Attend submittal review meeting with City staff, if necessary.
- 1.9 Final Report – A final preliminary design report will be prepared documenting all decisions.
- 1.10 Coordinate with KLJ for incorporation into the East Boulevard/East North Street Reconstruction project (CIP No. 50866, Project No. 14-2170).

PROJECT TEAM, MEETINGS, AND SUBMITTALS SUMMARY:

This task consists of all services necessary to take project from Task 1 Preliminary Design Services through the Final Design Services, and may include the following itemized services.

- 2.1 Project team members will include:
 - The Consultant
 - City Engineering Services staff
 - Operations Division staff
 - Utility Maintenance Division (Service area and O&M related issues)
 - Water Reclamation Division
- 2.2 Meetings requiring the Consultant’s participation will likely include, but may not be limited to the following:
 - Private Utility coordination meeting
 - Conceptual Design Report submittal review meeting
- 2.3 Submittals include:
 - All submittals shall include a title, date of submittal, name of person at the City the submittal is being delivered to, and name of firm and individual making the submittal. Submittals and drawings shall also clearly be labeled with one of the following statements:
 - “For Review Only”
 - Other as maybe necessary to effectuate submittal purpose.
 - Conceptual Design Report and Drawings Review Submittal, Task 1 including meeting minutes
 - Final Preliminary Design Report, Task 1 including meeting minutes. Final design reports shall be bound utilizing a comb binder or equal. 3-ring binders are not permitted without project manager’s prior approval.

SCHEDULE:

Notice to Proceed	March 21, 2017
Technical Memorandum	April 10, 2017
Conceptual Design Services Submittal	May 29, 2017
Final Preliminary Design Services Submittal	July 3, 2017



EXHIBIT B

**TASK SCHEDULE & ESTIMATED FEES
TRUNK SEWER MASTER PLAN
EAST BOULEVARD TO ST. JOSEPH STREET
PROJECT NO. 16-2353 CIP 50878
FMG, INC. - 3/2/17**

TASK 1 - PRELIMINARY DESIGN		
1.1	Collect and Review Background Information	\$ 2,950.00
1.2	Perform Desktop Route Review	
1.2.2	Route Alternative Analysis	\$ 7,260.00
1.2.3	Tech Memo	\$ 3,550.00
1.3	Perform Limited Route Survey - Selected Alternative	
1.3.1	Horizontal/Vertical Control	\$ 650.00
1.3.2	Rim/Invert & Existing Utility Elevation Verification	\$ 1,525.00
1.3.3	Private Utility Coordination	\$ 480.00
1.3.4	Collect Water and Sewer Service Cards	\$ 510.00
1.3.5	Drafting Survey Information/Set Up Design Sheets	\$ 1,335.00
1.4	Private Utility Base Map Verification Meeting	\$ 290.00
1.5	Meet with Individual Property Owners	\$ 620.00
1.6	Meet with DOT & Railroad	\$ 620.00
1.7A	Conceptual Design Report	
1.7.1	Conceptual Design Report	\$ 4,510.00
1.7.2	Determine Future Flows from City Provided TAZ Info	\$ 2,810.00
1.7.3	Analysis of Existing Utility Crossings & Required Relocations	\$ 1,500.00
1.7.4	Analysis of Sewer Service Impacts due to Sewer Re-Alignments	\$ 1,500.00
1.7.5	Establish Project Specific Design Criteria	\$ 2,000.00
1.7.6	Opinion of Probable Construction Costs	\$ 1,060.00
1.7.7	Identify ROW or Easement Acquisition Needs	\$ 240.00
1.7.8	Identify Design Exceptions Required	\$ 240.00
1.7.B	Conceptual Design Drawings	
1.7.9	Cover Sheet	\$ 70.00
1.7.10	Survey Control Sheet	\$ 225.00
1.7.11	Plan & Profile Sheets (11 Plan Sheets & 11 Profile Sheets)	\$ 17,305.00
1.8	Attend Submittal Review Meeting with City Staff	\$ 410.00
1.9	Incorporate Comments into Final Preliminary Design Report	\$ 720.00
1.10	Coordinate with KLJ	\$ 480.00
1.11	Reimbursables	\$ 525.00
TOTAL FOR TASK 1-PRELIMINARY DESIGN		\$ 53,385.00



EXHIBIT C

FMG ENGINEERING

RATE SCHEDULE

FOR

TRUNK SEWER MASTER PLAN – EAST BLVD. TO ST. PATRICK STREET

PROJECT NO. 16-2353 CIP 50878

<u>PRIMARY PERSONNEL</u>	<u>RATE</u>
Principal Civil Engineer	\$140.00/hr
Senior Civil Engineer	\$120.00/hr
Civil Engineer – PE / II	\$85.00/hr
Registered Land Surveyor	\$85.00/hr
<u>SUPPORT STAFF</u>	
Civil Engineer – PE / I	\$80.00/hr
Civil Engineer – EIT	\$75.00/hr
CADD Technician	\$70.00/hr
GIS Specialist	\$80.00/hr
Engineering Technician	\$55.00/hr
Survey Crew Chief	\$65.00/hr
Survey Technician	\$55.00/hr
Senior Administrative Assistant	\$55.00/hr
<u>VEHICLES & EXPENSES</u>	
Mobilization (support vehicle)	\$0.70/mile
Travel Costs - air, lodging, transport, meals, etc.	cost
Document/Plans Reproduction	cost