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

Project Name & Number: Southeast Area Trunk Sewer Reconstruction – Elm Avenue to Prairie Avenue  
CIP #: 50829

Project Description: Design services for replacement of an existing 12” trunk sewer with an 18” trunk sewer, replacement of water infrastructure along the trunk sewer alignment and preliminary design of drainage improvements, approximately 3,000 LF, through an existing developed residential area. The original agreement was for preliminary design services only to determine the best route for the trunk sewer.

Consultant: Longbranch Civil Engineering, Inc

Original Contract Amount: $122,370.00  
Original Contract Date: April 5, 2021  
Original Completion Date: December 31, 2021

Addendum No: 1

Amendment Description: This amendment is for professional services for additional preliminary design, final design and bidding services for the project. An amendment to the original agreement was expected when the original agreement was executed for this additional effort in order to complete engineering services for the City to be able to bid a project for construction. Along the selected trunk sewer route, the project is anticipated to include 18” trunk sewer, replacement of water infrastructure, partial to full street reconstruction, ADA improvements and drainage improvements.

Current Contract Amount: $122,370.00  
Current Completion Date: December 31, 2021

Change Requested: $380,890.00

New Contract Amount: $503,260.00  
New Completion Date: December 31, 2023

Funding Source This Request:

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Agreement Review & Approvals

Project Manager:  
Date: 2/17/2022

Division Manager:  
Date: 2/18/22

CIP Manager:  
Date: 2/18/22

Department Director:  
Date: 2/21/22

City Attorney:  
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)

Appropriation:  
Date: 2/24/22  
Initials: Y  
Approved: N

Cash Flow:  
Date: 2/24/22  
Initials: Y  
Approved: N

109A Authorization for Mayor & Finance Officer to Sign

Rev. 03/2009
AMENDMENT NO. 1 TO AGREEMENT

Project: Southeast Area Trunk Sewer Reconstruction – Elm Avenue to Prairie Avenue, City Project No. 20-2571 / CIP 50829

Background Data:
The original agreement with Longbranch Civil Engineering, Inc. included preliminary design services to assist the City in determining the best route for replacement of an existing 12” trunk sewer with an 18” trunk sewer. A route for the new 18” sewer has since been determined.

Nature of Amendment:
This amendment is for professional services for additional preliminary design, final design and bidding services for the project. An amendment to the original agreement was expected when the original agreement was executed for this additional effort in order to complete engineering services for the City to be able to bid the project for construction. Along the selected trunk sewer route, the project is anticipated to include 18” trunk sewer, replacement of water infrastructure, partial to full street reconstruction, ADA improvements and drainage improvements.

This amendment also extends to completion date to December 31, 2023.

Current Contract Amount: $122,370.00
Change Requested: $380,890.00
New Contract Amount: $503,260.00

Owner and Engineer hereby agree to modify the above referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The effective date of this Amendment is:

______________________________
CITY OF RAPID CITY:               Engineer:  ___________________________
By: Steve Allender, Mayor          By: Kale McNaboe, Longbranch Civil
                                      Engineering, Inc.
Date Signed:  ______________________
ATTEST:                            Date Signed:  2-17-22
By: ______________________________
    Pauline Sumption, Finance Director
Date Signed:  _____________________
Exhibit A
Amendment No. 1

Southeast Area Trunk Sewer Reconstruction – Elm Ave. to Prairie Ave.
Project No. 20-2571 / CIP No. 50829

Background and Purpose
The purpose of this Amendment No. 1 is to allow for final engineering design for the Southeast Area Trunk Sewer Reconstruction – Elm Ave. to Prairie Ave. project. The initial scope of services was limited to conceptual designs to determine possible rerouting alignments of the existing trunk sanitary sewer. These conceptual designs allowed the City to review each alignment and determine which route was in the best interest of the City. A route has now been chosen by the City, and final construction plans are needed for the collector sanitary sewer to be rerouted.

The goal of this project is to reconstruct a portion of the trunk sanitary sewer in the South Park Subdivision generally located from the intersection of E. Flormann St. and Elm Ave. to half a block east of the intersection of Prairie Ave. and Saint Francis St. The project is needed due to the existing sanitary sewer having high infiltration rates of groundwater and recommended improvements from previous master plans. This results in sewer backups into private residences. Additionally, this area is to have future drainage improvements installed which may conflict with other utilities such as the water and sewer mains.

From the previous analysis work completed with the conceptual design, the following improvements are anticipated:

- Replace the trunk sewer along the alignment shown in Exhibit D.
- Replacement of existing infrastructure along the alignment based on minimizing disturbed areas.
- Existing AC and Iron watermain anticipated to be replaced along the construction route.
- Existing PVC watermain to be left in place with cathodic protection anticipated to be retrofitted to the existing main along with new service lines.
- A box culvert extension is anticipated from the intersection of Elm Avenue and Meade Street to the intersection of Maple Avenue and Meade Street.
- Drainage improvements along the Michigan Avenue concrete open channel from Saint Anne Street to Meade Street are anticipated. Improvements include reconstruction the concrete channel as a wider grassed lined channel with the installation of a stormwater intake structure near the intersection of Meade Street and Michigan Avenue to direct channel flows underground.
- Partial to full reconstruction of street sections including: sidewalks, curb and gutter, pavement sections, etc.
- Provide vertical and horizontal alignments of proposed new underground infrastructure to minimize conflicts with a future box culvert expansion.
Below, are itemized tasks and services that are necessary to complete the project. A brief description is provided on each task conveying responsibilities of the prime-consultant and its sub-consultants if needed. It was assumed for the purposes of this project that Longbranch Civil Engineering Inc. will be responsible for all tasks with the exception of preparing and conducting the geotechnical analysis and reports. This task will be the responsibility of American Engineering and Testing.

It should be noted that some of the previous scope of services described in the original "Exhibit A" of the original design contract have been updated in this document to include the additional work needed to complete this project. For better consistency between the original contract and this Amendment No. 1, task numbers have been kept the same from the original contract. Any additional modifications to previous tasks have been included within the original task description as italicized and bold font.

**Task 1 – Preliminary Design Recommendation Services**

1.1 Kick-off Conference: The consultant shall meet with City staff to detail project concept and scope. The consultant shall prepare an agenda, take minutes, and distribute minutes.

1.2 Review background information listed in the RFP, scoping meeting, and kick-off conference, and any other resource as necessary.

1.3 **Perform site surveys sufficient for design preliminary plan preparation.** The route and topography survey shall be in NAD83 (2011) NAVD88 South Dakota State Plane South Zone. The horizontal and vertical coordinates shall be established from the Rapid City Primary Control Network.

   The following site survey tasks will be completed for the final design:

   1.) Provide full boundary survey including R.O.W. centerline alignments for all road sections within the project area.

   2.) Water and Sewer services to be located and surveyed within boundary survey limits.

   3.) Full onsite surveying to be conducted. This includes documentation of private utilities.
1.4 Determine Locations of existing water services
   A. Rapid City Utility Maintenance will provide locating services for all water mains and services.
   B. Rapid City Utility Billing and Service will operate curb stops to verify individual water connections. City will be responsible for repairing broken or inoperable curb stops.
   C. Engineer will coordinate schedule with Rapid City Billing and Service and be responsible for notifying property owners of temporary water shutoffs and request for entry into structures to verify shutoffs.
   D. Water service to structures will be verified by Engineer following closing of the curb stop. Verification will at a minimum require operating an outside hose bib valve to ensure water is shutoff by the curb stop.
   E. Water services will be located by Engineer’s utility locating subcontractor using available tracer wire or by connecting to metallic water service components inside of each structure.

1.5 Determine locations of existing sanitary sewer services
   A. Rapid City Utility Maintenance will provide locating services of all sanitary sewer mains and services. City will flush sanitary sewer mains as necessary prior to CCTV work.
   B. Rapid City Utility Maintenance will provide a vacuum truck and operator in the event that the vertical location of a sanitary sewer service is in question or in potential conflict with proposed facilities.
   C. City of Rapid City to provide CCTV of the sewer main. This inspection will also include measurements along the sewer main to points of interests such as service taps and any areas of defect.
   D. Sewer services will be inspected via recorded CCTV from each structure to the sanitary sewer main using a locator. Location of sanitary sewer camera/service line will be recorded on the ground surface using GPS survey equipment. Engineer subconsultant will flush sanitary sewer services prior to CCTV inspection.
   E. If necessary, the third party inspection company may be required to CCTV the sewer main at tap locations and Engineer will operate a fixture(s) inside each structure to verify service connection location.
   F. To resolve conflicting information, Engineer and/or its subconsultant may utilize dye tablets to determine sewer service tap locations.
   G. Sewer main and sewer service CCTV inspection will be completed according to NASSCO standards.
1.6 Develop and distribute a survey questionnaire to property owners adjacent to proposed construction areas approximately 3 months or more ahead of soliciting bids for construction. The questionnaire should be developed to obtain information on site-specific concerns such as landscaping or irrigation systems, service line locations, special needs such as access considerations during construction, or history of utility or infrastructure problems at the property. Questionnaires would be returned to and evaluated by the consultant, who would follow up with appropriate individual contact with property owners prior to completion of 100% plans and contract documents to review project considerations that may be addressed or mitigated by the project work. Arrange and conduct meetings with affected property owners as deemed necessary.

1.7 Generate necessary temporary and permanent easements to facilitate construction of the proposed project.

1.8 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.
1.9 Conceptual Design Submittal shall generally consist of the following documents:

A. Conceptual Design Report - Engineer to provide the following with regards to each Prepare a Conceptual Design Report: The consultant shall establish and indicate project specific design criteria and standards within the Conceptual Design Report (including ADA requirements). The consultant shall submit all design assumptions for pipe sections, water, sewer, and storm sewer locations, pavement sections, etc. 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. The Conceptual Design Report shall evaluate and recommend preliminary horizontal and vertical alignments for utilities, project phasing and limits, and other public improvements. Establish pipe sizes, evaluate alignments for the trunk sewer and future regional drainage improvements, etc. The project’s geotechnical report shall be included within the Conceptual Project Design Report and include soil classifications, N values, water levels, proctors, CBR’s, resistivity tests, pavement design, and testing recommendations. The Consultant shall elaborate on other project components as necessary such as evaluation of existing street for conformance with current City Design Standards, document City concurrence when criteria non-conformance occurs, and provide recommendations and/or alternative solutions to achieve conformance.

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.

Identify all non-conforming water and sewer service lines and include a map showing a proposed solution to making them conform with the City’s current standards.

Submit 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 a digital copy (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 Bearing.
- **Anticipated traffic control phasing and erosion control measures**
- **Property Layout and Land Ownership**
- **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.
- **Anticipated Rapid City Standard Details**
- **Special Details** – Conceptual layouts for special/critical elements for example buildings, special drainage structures, pump facilities, etc.
- **Plan sheets shall be prepared utilizing the latest City of Rapid City Drafting Standards. Plans to be in 11”x17” format with colorized proposed utilities.**
- **Conceptual Drawings submitted to the City to be considered 65% completed plans.**

1.10 Drainage Analysis

To conform to current Codified Federal Regulations Section 65.12, a stormwater hydraulic analysis is to be provided demonstrating that the proposed improvements will not create an increase in water levels within the surrounding area. This drainage analysis shall include the use of HEC-RAS software to determine probable current and post-construction water inundation spread and depths within the project area. A drainage report shall be created documenting the results of the hydraulic analysis.

The drainage analysis is intended to meet current requirements for Rapid City Floodplain Development Permitting. Engineer to anticipate submitting necessary information and documentation to the City of Rapid City to obtain an approved Floodplain Development Permit.

In the event that it is found that a floodwater rise may occur due to this project, the engineer and the City reserve the right to discuss alternative solutions to mitigate floodwater levels and may result in additional expansion of current scope of services.
1.11 Attend submittal review meeting with City staff, if necessary.

1.12 Attend Public Works and Council meetings as necessary.

1.13 *Future Sanitary Sewer Reconstruction Recommendations Report*  
*Due to the proposed relocation of existing collector sanitary sewer, the Engineer shall create a sanitary sewer master plan report detailing the recommended improvements of the existing sanitary sewer within the project area as described in Exhibit E. This report is anticipated to determine if portions of the existing sanitary sewer should be resized due to lower contributing flows as well as determine if some portions of the infrastructure should be redirected to minimize shallow bury depths. Engineer to anticipate analyzing known non-conforming sewer services to determine if future infrastructure expansion is necessary to provide conforming services. Report to provide the City with recommendations for future sanitary sewer projects as well as determine a sequence for these projects.*

**TASK 2 - FINAL DESIGN SERVICES:**  
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 Address City comments from the Task 1 City review(s) and finalize Conceptual Design Report. The Conceptual Design Report should be now titled “Project Design Report”

2.2 Provide project layout to include lot lines (front and side) and addresses of all properties (adjacent to construction, or alternatively, in service area). Identify if property is owner occupied or a rental.

2.3 Determine removal limits with approval of City of Rapid City representative

2.4 Coordinate with the geotechnical engineer to complete these services and provide a geotechnical report to be included in the Project Design Report and project plans or specifications. Geotechnical Report to address the slope stability of the project area as well as provide recommendations for remediation.

2.5 Incorporate design features as necessary to meet the requirements outlined in the Project Design Report.

2.6 Incorporate ADA compliance items, for example fillet, driveway and sidewalk improvements. All applicable ADA requirements shall be outlined in the Project Design Report.
2.7 Provide a complete stormwater pollution prevention narrative which will include detailed erosion and sediment control measures and specifications. Provide a complete erosion and sediment control site plan which includes station and offset locations for each implemented measure. Include both temporary and permanent erosion and sediment control measures. Include an erosion and sediment control sequence of implementation and phasing schedule. Each erosion control item shall be bid separately.

2.8 Provide detailed traffic control plans showing all devices required for a MUTCD compliant plan. Show all streets and alleys that may be impacted by this project. Show all existing signage, pavement markings, etc. All work zones, road closures, lane closures, and pavement marking removals shall be indicated on the plan. A detailed layout will be included for each phase of multi-phased projects. The traffic control sequence of implementation and phasing schedule shall coincide with erosion and sediment control sequence of implementation and phasing schedule. Each traffic control device shall be bid separately. The City will provide an electronic version of an aerial photo for the selected consultant’s use.

2.9 Provide a Project Sequence of implementation and phasing schedule which shall include such items as traffic control, erosion and sediment control, utility installations, paving, restoration, and construction milestones.

2.10 The consultant shall create a detailed list of all potential utility conflicts caused by the project. City Project Manager shall schedule the Private Utility Coordination Meeting. The consultant shall prepare the meeting agenda and include the list of utility conflicts for discussion at the meeting. If a private utility intends to replace their infrastructure, the consultant shall coordinate a location corridor for the utilities and show the proposed location on the drawings. Indicate if the private utilities intend to abandon or replace the infrastructure prior to or during this project’s construction. Coordinate directly with utility companies’ engineering divisions to ensure that all existing utilities are completely and accurately identified and located in the field; that pertinent information regarding depth, material, size, etc. are noted on the plans; and that conflicts requiring relocation of utilities or special construction techniques are fully specified in the contract documents. Prior to the meeting, preliminary plans shall be provided to the pertinent utilities for comment at the time they are complete. The consultant shall document the resolution of each utility conflict agreed upon by each utility company.

2.11 Provide the City Project Manger a list of all private utility conflict resolutions. If private utilities will need to be relocated, assist PM as necessary with formal notification.
2.12 Engineer shall obtain a design exception for Infrastructure Design Criteria manual requirements and Standard Specifications if needed. Exceptions to the Standard Specifications shall be documented on the Cover sheet of the construction plans. The table shall include the following:

- City Exception File Number
- Specification Section
- Description
- Stipulations

If desiring exceptions from City requirements or specifications, it is the Consultant’s responsibility to request and secure exceptions. Failure by the City to comment on a nonconforming item during a review does not constitute the granting of an exception. Engineer shall obtain a design exception for Infrastructure Design Criteria manual requirements as needed.

2.13 Provide detailed specifications supplementing the City of Rapid City Standard Specifications, as necessary. Typically, project drawing specific issues should be indicated as a General Note on the drawings. Material types and material specific items would be included as a detailed specification.

Additional Anticipated Detailed Specifications Include:

- Open Channel Concrete Wing Wall Detail
- Open Channel Drop Structure Detail
- Open Channel/Saint Anne Retaining Wall Detail
- Stormwater Velocity Reduction Detail (Rip Rap, Drop, Etc.)
- Box Culvert Detail
- Saint Anne Street Sidewalk Drain Detail
- Driveway Joint Detail (20’ Approaches – Match Ex. Driveway Widths)

2.14 Provide complete plans and specifications for a unit price construction contract. Plan sheets shall be prepared utilizing the latest City of Rapid City Drafting Standards.

2.15 Staking information shall include:

- Station offsets and required grades for all items of work requiring field staking.

2.16 Facilitate permanent and/or temporary construction easement acquisition, and obtain property owner contact information, prepare easement and/or ROW exhibits as necessary, provide copies of current deeds of properties where easements are needed, conduct property owner meetings for easement and/or ROW acquisition, and document acquisition meetings as needed. The City will prepare necessary legal documents. The consultant will acquire easements on behalf of the City for this project.
2.17 Provide one (1) PDF version of the finalized Project Design Report.

2.18 Provide one (1) PDF version of the Final 100% Design Services submittal. The submittal shall consist of complete plans, specifications, contract documents, and opinion of probable construction cost to the City of Rapid City’s project manager for review. The Final Design Services submittal will be made to the City when the consultant believes the plans, specifications, contract documents, and opinion of probable construction cost are 100% complete.

2.19 Address 100% submittal staff comments as necessary.

2.20 All submittals (drawings and specifications) believed by the Engineer of Record to be a final, shall contain a Certification Statement of Conformance with City Standards which shall read, “I (insert Engineer of Record’s name) Certify that I have read and understand the provisions contained in the City of Rapid City Standard Specifications for Public Works Construction, current edition and the City of Rapid City’s adopted Design Criteria Manuals. The drawings and specifications contained here within, to the best of my knowledge, were prepared in accordance with these documents or a properly executed exception to the Standard Specifications and/or Infrastructure Design Criteria Manual has been secured”. This statement shall appear on the title sheet of the drawings and on the first page of specifications after the cover sheet. The “Certification Statement of Conformance with City Specifications” shall be signed and dated by the Engineer of Record.

2.21 Prepare any and all permits with exhibits the City will need to execute for the project.

2.22 Identify permits that will be required for the Contractor. Identify permit costs and indicate if any permit costs are paid for directly by the owner or if it is a Contractor cost. Typically, all permit costs are the Contractor’s obligation except as indicated in the City’s contract front end documents.

2.23 Prepare final “Engineer’s Estimate” of probable construction cost for the project.
2.24 Deliver the following:

- Provide one (1) PDF version of bid documents including complete plans, specifications, and Engineer’s Estimate of probable construction cost to the City of Rapid City’s project manager for City distribution.
- Provide complete plans on CD compatible with AutoCAD Release 2011 or newer format.
- Provide all topographic, control, and design points in the .dwg file and in tabular format, both on CD and on hard copy printout.
- Provide complete specifications and contract documents on CD in Microsoft Word XP or previous versions.
- Provide a unit price cost estimate on CD in Microsoft Excel XP or previous version on the City of Rapid City “Engineer’s Estimate” form.
- Provide Engineer’s Estimate of probable construction costs as a component of this submittal.
- Provide one (1) PDF of plans/drawings to the City of Rapid City at 11” x 17” scale for construction services personnel.

2.25 The City will submit plans and specifications to the Department of Environment and Natural Resources for approval, and the Consultant shall address any comments or corrections required.

2.26 Engineer to arrange and conduct a public open house with affected residents. The open house shall be held sufficiently ahead of the project advertisement for bids such that public comments and concerns can be addressed within the final project documents if necessary.

**TASK 3 – BIDDING SERVICES:**
This task consists of all services necessary for the administration of the Bidding Services of the project, and may include the following itemized services.

3.1 Submit sufficient information to the City of Rapid City project manager for completion of City Advertising Authority form.

3.2 Consultant shall proof print quality at printers before full production of copies are made.

3.3 Arrange and conduct a Pre-bid Conference. Record attendance and minutes. Distribute pre-bid agenda to all attendees. Provide Pre-Bid Conference minutes to the City Project Manager only. An example of an agenda is enclosed as Attachment Five for your information.

3.4 Prepare and issue addenda to the bid documents as required.

3.5 Attend Public Works Committee and Council Meetings as required.
3.6 Review Bidder’s Proposals for errors & unbalanced bids and review and sign the City Engineering Services prepared Bid Tab, prepare an award recommendation letter to the City of Rapid City project manager, and sign a City Engineering Services prepared Award Summary.

3.7 Prepare “As-Built” plans and specifications. A hard copy of the “As-Built” plans and specifications shall be submitted to the City in the same size and format as construction plans. Additionally, the consultant will provide PDF’s and CAD files on a CD or DVD.

The digital submittal must be compatible with AutoCAD Civil 3D 2010, or newer, and contain all files and data packaged in a format that will allow City personnel to seamlessly open “As Built” drawings. The Consultant will work with the City CAD technician, in person, to demonstrate the CAD file operation and compatibility with City CAD software.

If the Consultant is hired for Tasks 4 and 5, “As Built” plans and specifications shall be provided thirty (30) days following project acceptance. However, if the Consultant is not hired for Tasks 4 and 5, “As Builts” shall be provided thirty (30) days following the Consultant’s receipt of City markups/redlines.

The Consultant will be paid for this work in advance, on the last invoice, but is required to complete the work at a later date per the contract, even if the Consultant has billed 100% of the contract and the City has closed the contract.

All “As Built” plans and specifications, believed by the Engineer of Record to be a final, shall contain a Certification Statement of Conformance, which shall read, “I (insert Engineer of Record’s name) Certify that the As Built Drawings and specifications contained here within, to the best of my knowledge, represent the constructed project.” This statement shall appear on the title sheet of the drawings and on the first page of specifications after the cover sheet. The “Certification Statement of Conformance” shall be signed and dated by the Engineer of Record.
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<tr>
<td>2.8</td>
<td>Provide Traffic Control Plans</td>
<td>7,250.00</td>
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<td>2.9</td>
<td>Provide Project Specifications</td>
<td>7,250.00</td>
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<tr>
<td>2.10</td>
<td>Identify Potential Utility Conflicts</td>
<td>$4,600.00</td>
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<tr>
<td>2.11</td>
<td>Provide Substitutions to Utility Conflicts</td>
<td>$5,340.00</td>
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<tr>
<td>2.12</td>
<td>Design Alternatives if Required</td>
<td>$8,000.00</td>
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<tr>
<td>2.13</td>
<td>Provide Stated Specifications</td>
<td>$27,400.00</td>
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<tr>
<td>2.14</td>
<td>Provide Complete Plans and Specifications</td>
<td>$330.00</td>
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<tr>
<td>2.15</td>
<td>Label Staging Information on Construction Plans</td>
<td>$1,750.00</td>
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<tr>
<td>2.16</td>
<td>Acquire Permit and Temporary Requirements</td>
<td>32,200.00</td>
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<tr>
<td>2.17</td>
<td>Preliminary Version of Frontal Project Design Report</td>
<td>$1,840.00</td>
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<td>2.18</td>
<td>Preliminary Version of Final Design Services Construction Plan, Submittal</td>
<td>$450.00</td>
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<tr>
<td>2.19</td>
<td>Address 100% Submittal Comments</td>
<td>$10,250.00</td>
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<tr>
<td>2.20</td>
<td>Stages and Certify All Reports and Construction Plans</td>
<td>$450.00</td>
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<td>2.39</td>
<td>Prepare any Permits with Sidewalk for the City</td>
<td>$8,330.00</td>
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<td>2.27</td>
<td>Verify Permits that are Required by the Contractor</td>
<td>$1,000.00</td>
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<td>2.28</td>
<td>Proper Final &quot;Improver's Estimate&quot;</td>
<td>$3,480.00</td>
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<td>2.29</td>
<td>Free Deliverables: Copy of Bid Documents, Finalized Construction Plans, Design Report, etc.</td>
<td>$1,380.00</td>
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<td>2.30</td>
<td>Copy Submittal Plans and Specifications to SODAGAR</td>
<td>0.00</td>
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<td>2.31</td>
<td>Arrange and Conduct Public Open House</td>
<td>1,740.00</td>
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<tr>
<td><strong>Task 2 Total Cost:</strong></td>
<td></td>
<td><strong>$218,515.00</strong></td>
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<td>3.1</td>
<td>Solicitation Information to Accounting Authority</td>
<td>$900.00</td>
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<td>3.2</td>
<td>Sort Project Plans to Field Substitution of Copies</td>
<td>$150.00</td>
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<td>3.3</td>
<td>Arrange and Conduct Preliminary Conference</td>
<td>$100.00</td>
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<td>3.4</td>
<td>Prepare and Send Additions to Field Documents</td>
<td>$1,215.00</td>
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<td>3.5</td>
<td>Amend Public Work and City Council Meetings</td>
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<td>3.6</td>
<td>Review Director’s Requests</td>
<td>$85.00</td>
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<td>3.7</td>
<td>Prepare &quot;No Bid&quot; Plans and Specifications</td>
<td>$1,010.00</td>
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<tr>
<td><strong>Task 3 Total Cost:</strong></td>
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<td><strong>$3,200.00</strong></td>
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**TOTAL OF TASK 1, 2, AND 3:** $380,820.00

*All tasks and descriptions have been provided for such task. Longbeach Civil Engineering, Inc. shall waive the right to estimate entries in other tasks subject to the restrictions listed in the above.*
## EXHIBIT C
### EFFECTIVE LABOR RATES

<table>
<thead>
<tr>
<th>Position</th>
<th>Rate</th>
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</thead>
<tbody>
<tr>
<td>Senior Engineer, P.E.</td>
<td>$165.00 / hr.</td>
</tr>
<tr>
<td>Staff Engineer, P.E.</td>
<td>$150.00 / hr.</td>
</tr>
<tr>
<td>Staff Engineer, E.I.T.</td>
<td>$95.00 / hr.</td>
</tr>
<tr>
<td>Land Surveyor, L.S.</td>
<td>$125.00 / hr.</td>
</tr>
<tr>
<td>Land Surveyor, L.S.I.T.</td>
<td>$90.00 / hr.</td>
</tr>
<tr>
<td>Survey Technician</td>
<td>$75.00 / hr.</td>
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<tr>
<td>Engineer's On-Site Representative</td>
<td>$75.00 / hr.</td>
</tr>
<tr>
<td>CAD Technician II</td>
<td>$95.00 / hr.</td>
</tr>
<tr>
<td>CAD Technician I</td>
<td>$85.00 / hr.</td>
</tr>
<tr>
<td>Mileage</td>
<td>$0.60 / mi.</td>
</tr>
<tr>
<td>Plans Reproduction</td>
<td>1.0 x Cost</td>
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<tr>
<td>Reimbursable</td>
<td>1.0 x Cost</td>
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