

**RFP2019-08: ENGINEERING, DESIGN AND CONSTRUCTION INSPECTION SERVICES FOR STRUCTURAL IMPROVEMENTS TO
FIREHOUSE APPARATUS FLOOR AT ENGINE NO. 8 FOR THE CITY OF TRENTON, DEPARTMENT OF PUBLIC WORK
PROPOSAL OPENING 1/30/19 AT 11:00AM**



1

Cost Proposal by Phase

| | |
|---------------------|----------|
| Design Phase: | \$8,250 |
| Bid Phase: | \$2,540 |
| Construction Phase: | \$3,850 |
| Project total: | \$14,640 |

Detailed Phase Costs:

| | |
|--|------------|
| • Survey and Assessment | \$2,000.00 |
| • 75% Preliminary Construction Plans / Specifications / Bid Document Preparation | \$4,687.50 |
| • Final Construction Plans / Specifications / Bid Document Preparation | \$2,562.50 |
| • Bid Tabulation and Contract Administration | \$1,540.00 |
| • Construction Inspection and Management | \$3,850.00 |

Additional Personnel Fee Schedule

Fee Schedule for City of Trenton

| | |
|---------------------------------------|-----------|
| Principal Engineer | \$150.00 |
| Design Engineer - Licensed | \$135.00 |
| Design Engineer | \$110.00 |
| Architect | \$150.00 |
| Reg Landscape Architect | \$135.00 |
| Project Manager | \$90.00 |
| Survey Crew | \$135.00 |
| CAD Operator / Draftsman / Technician | \$90.00 |
| Head Inspector / Construction Manager | \$110.00 |
| Inspection / Inspector | \$90.00 |
| Office Administration / Clerical | No Charge |

Miscellaneous Reimbursable Expenses:

| | |
|--------------------------------|---------------|
| Postage, Federal Express, etc. | \$Cost |
| Printing | \$5.00/sheet |
| Computer Mylars/Color Plots | \$25.00/sheet |
| Outside Services or Fees | \$Cost |
| Color Copies | \$1.50 /each |

All outside expenses will be charged at direct cost, no markup to the City of Trenton.

No mileage expenses for travel will be charged to the City of Trenton



2

TOTAL BASE COST PROPOSAL

\$14,490.00

| | |
|---|-------------|
| Phase I - Survey and Assessment | \$3,175.00 |
| Phase II - 75% Preliminary Submission | \$5,055.00 |
| Phase III - Final Construction Submission | \$1,505.00 |
| Phase IV - Bid Tabulation and Contract Administration | \$490.00 |
| Phase V - Construction Inspection and Management | \$4,265.00 |
| <hr/> | |
| TOTAL | \$14,490.00 |

| | |
|--|-------------|
| Alternative 1 - Floor or French Drain | \$13,140.00 |
| Alternative 2 - Entire 1st Floor Replacement | \$7,960.00 |
| Alternative 3 - Laser Scanning | \$1,800.00 |

Hourly and unit costs are illustrated in the attachments.



Professional Engineering Services
Structural Improvements to Firehouse Apparatus
Floor at Engine No. 8, City of Trenton

| PHASE | DESCRIPTION | PRINCIPAL | PROJECT MANAGER | LEAD STRUCTURAL ENGINEER | PROJECT ENGINEER | JUNIOR ENGINEER | TOTAL HOURS | COST PER TASK |
|---|---|-------------|--------------------|--------------------------|------------------|--------------------|---------------------|--------------------|
| I SURVEY & ASSESSMENT | | | | | | | | |
| | Kick-off Meeting and Meeting minutes | | 1 | 2 | | | 3 | \$ 390.00 |
| | As-built inspection, including utility identification | | | 4 | | 2 | 6 | \$ 670.00 |
| | Signed & Sealed as-built plan | | | 1 | | 8 | 9 | \$ 805.00 |
| | Signed & Sealed calculations | | | 6 | | 2 | 8 | \$ 920.00 |
| | Progress Meeting and meeting minutes | | 1 | 2 | | | 3 | \$ 390.00 |
| | TOTAL PHASE I | | | | | | | \$ 3,175.00 |
| II 75% PRELIMINARY CALCULATIONS/SPECIFICATIONS/BID DOCUMENTS | | | | | | | | |
| | Calculations | | | | | | | |
| | Supplemental Beams | | | 6 | | 2 | 8 | \$ 920.00 |
| | Post & Footings analysis and/or new | | | 6 | | 2 | 8 | \$ 920.00 |
| | 75% Plans | | 1 | 16 | | | 17 | \$ 2,140.00 |
| | 75% Specs and Project Manual | | 1 | 2 | | 2 | 5 | \$ 560.00 |
| | Construction Estimate | | | 1 | | | 1 | \$ 125.00 |
| | Progress Meeting and meeting minutes | | 1 | 2 | | | 3 | \$ 390.00 |
| | TOTAL PHASE II | | | | | | | \$ 5,055.00 |
| III FINAL CONSTRUCTION PLANS/SPECIFICATIONS/BID DOCUMENTS | | | | | | | | |
| | Incorporation of revisions | | | | | 1 | 1 | \$ 85.00 |
| | Finalize design details/connections | | 1 | 6 | | | 7 | \$ 890.00 |
| | Revise Project Manual and Specifications | | 1 | 1 | | | 2 | \$ 265.00 |
| | Revise Cost Estimate | | 1 | 1 | | | 2 | \$ 265.00 |
| | TOTAL PHASE III | | | | | | | \$ 1,505.00 |
| IV BID TABULATIONS & CONTRACT ADMINISTRATION | | | | | | | | |
| | Review of bids received | | | 1 | | | 1 | \$ 125.00 |
| | Tabulation of Bids Received | | | | | 2 | 2 | \$ 170.00 |
| | Recommendation to City | | 0.5 | 1 | | | 1.5 | \$ 195.00 |
| | TOTAL PHASE IV | | | | | | | \$ 490.00 |
| V CONSTRUCTION ADMINISTRATION & INSPECTION | | | | | | | | |
| | Pre-Con Meeting incl. coordination | | 1 | 1 | | | 2 | \$ 265.00 |
| | RFI, Submittal & Shop Drawing Review | | | 16 | | | 16 | \$ 2,000.00 |
| | Inspections & Testing | | | | | | | \$ - |
| | Develop Written Inspection & Testing Schedule | | | 1 | | | 1 | \$ 125.00 |
| | 10 inspection as detailed in proposal | | | 10 | | | 10 | \$ 1,250.00 |
| | Written Insp. Reports (allow. 10x) | | | 5 | | | 5 | \$ 625.00 |
| | TOTAL PHASE V | | | | | | | \$ 4,265.00 |
| | (a) Man-hours | 0 | 9.5 | 91 | 0 | 21 | 121.5 | |
| | (b) 2018 Rate | \$ 150.00 | \$ 140.00 | \$ 125.00 | \$ 110.00 | \$ 85.00 | | |
| | TOTAL COST: (a)x(b) | \$ - | \$ 1,330.00 | \$ 11,375.00 | \$ - | \$ 1,785.00 | \$ 14,490.00 | |



Professional Engineering Services
Structural Improvements to Firehouse Apparatus Floor at Engine No. 8, City of
Trenton
ALTERNATE 1- DRAIN

| PHASE | DESCRIPTION | PRINCIPAL | PROJECT MANAGER | LEAD STRUCTURAL ENGINEER | PROJECT ENGINEER | JUNIOR ENGINEER | SENIOR SURVEYOR | FIELD CREW | CAD TECHNICIAN | TOTAL HOURS | COST PER TASK |
|-------|--|-----------|-----------------|--------------------------|------------------|-----------------|-----------------|------------|----------------|-------------|--------------------|
| I | <u>ADDITIONAL SURVEY & ASSESSMENT</u> Land Survey | | | | | | | | | | |
| | <u>TOTAL PHASE I</u> | | | | | | | 4 | 24 | 40 | 68 |
| II | <u>ADDITIONAL 75% PRELIMINARY CALCULATIONS/SPECIFICATIONS/BID DOCUMENTS</u> Calculation Oil/Samp/operater Conned./Slope to Storm Water 75% Plans 75% Specs Project Manual Construction Estimate <u>TOTAL PHASE II</u> | | | 4 | 2 | | | | 6 | | \$670.00 |
| | | | | 8 | 2 | | | | | 10 | \$1,170.00 |
| | | | | 1 | 24 | | | | | 25 | \$3,140.00 |
| | | | | 1 | 4 | | | | | 5 | \$640.00 |
| | | | | 1 | | | | | | 1 | \$125.00 |
| III | <u>ADDITIONAL FINAL CONSTRUCTION PLANS/SPECIFICATIONS/BID DOCUMENTS</u> Finalize details/connections <u>TOTAL PHASE III</u> | | | 1 | 6 | | | | | 7 | \$890.00 |
| IV | <u>ADDITIONAL TABULATIONS & CONTRACT ADMINISTRATION</u> <u>TOTAL PHASE IV</u> | | | | | | | | | | \$890.00 |
| V | <u>ADDITIONAL CONSTRUCTION ADMINISTRATION AND INSPECTION</u> <u>Additional Inspections & Testing</u> 4 additional inspection Written 10% Reports (allow: 4x) <u>TOTAL PHASE V</u> | | | 6 | | | | | 6 | | \$750.00 |
| | | | | 3 | | | | | 3 | | \$375.00 |
| | | | | | | | | | | | \$1,125.00 |
| | (a) Man-hours | 0 | 3 | 56 | 0 | 4 | 4 | 24 | 40 | 131 | |
| | (b) 2018 Rate | \$150.00 | \$140.00 | \$125.00 | \$110.00 | \$85.00 | \$125.00 | \$95.00 | \$65.00 | | |
| | <u>TOTAL COST: (a)(b)</u> | \$- | \$420.00 | \$7,000.00 | \$- | \$340.00 | \$500.00 | \$2,280.00 | \$2,600.00 | | <u>\$13,140.00</u> |



Professional Engineering Services
Structural Improvements to Firehouse Apparatus
Floor at Engine No. 8, City of Trenton
ALTERNATE 2- FULL 1ST FLOOR

| PHASE | DESCRIPTION | PRINCIPAL | PROJECT MANAGER | LEAD STRUCTURAL ENGINEER | PROJECT ENGINEER | JUNIOR ENGINEER | TOTAL HOURS | COST PER TASK |
|-------|--|------------|-----------------|--------------------------|------------------|-----------------|-------------|-------------------|
| I | ADDITIONAL SURVEY & ASSESSMENT | | | | | | | |
| | Signed & Sealed calculations | | | 10 | | 4 | 14 | \$1,590.00 |
| | TOTAL PHASE I | | | | | | | \$1,590.00 |
| II | ADDITIONAL 75% PRELIMINARY CALCULATIONS/SPECIFICATIONS/BID DOCUMENTS | | | | | | | |
| | Calculations | | | | | | | |
| | Stair Framing | | | 4 | | 2 | 6 | \$670.00 |
| | Kitchen Framing | | | 8 | | 2 | 10 | \$1,170.00 |
| | 75% Plans | | 1 | 12 | | | 13 | \$1,640.00 |
| | Construction Estimate | | | 1 | | | 1 | \$125.00 |
| | TOTAL PHASE II | | | | | | | \$3,605.00 |
| III | ADDITIONAL FINAL CONSTRUCTION PLANS/SPECIFICATIONS/BID DOCUMENTS | | | | | | | |
| | Finalize design details/connections | | 1 | 12 | | | 13 | \$1,640.00 |
| | TOTAL PHASE III | | | | | | | \$1,640.00 |
| IV | ADDITIONAL BID TABULATIONS & CONTRACT ADMINISTRATION | | | | | | | |
| | TOTAL PHASE IV | | | | | | | \$- |
| V | ADDITIONAL CONSTRUCTION ADMINISTRATION AND INSPECTION | | | | | | | |
| | <i>Additional Inspections & Testing</i> | | | | | | | |
| | 4 additional inspection | | | 6 | | | 6 | \$750.00 |
| | Written Insp. Reports (allow. 4x) | | | 3 | | | 3 | \$375.00 |
| | TOTAL PHASE V | | | | | | | \$1,125.00 |
| | (a) Man-hours | 0 | 2 | 56 | 0 | 8 | 66 | |
| | (b) 2018 Rate | \$150.00 | \$140.00 | \$125.00 | \$110.00 | \$85.00 | | |
| | TOTAL COST: (a)x(b) | \$- | \$280.00 | \$7,000.00 | \$- | \$680.00 | | \$7,960.00 |



Professional Engineering Services
Structural Improvements to Firehouse Apparatus Floor at Engine No. 8, City of Trenton
ALTERNATE 3- LASER SCANNING

| PHASE | DESCRIPTION | PRINCIPAL | PROJECT MANAGER | LEAD STRUCTURAL ENGINEER | PROJECT ENGINEER | JUNIOR ENGINEER | SENIOR SURVEYOR | FIELD CREW | CAD TECHNICIAN | ADMINISTRATOR | TOTAL HOURS | COST PER TASK |
|-------|--|-----------|---------------------------|--------------------------|------------------|-----------------|-----------------|------------|----------------|---------------|-------------|---------------|
| I | ADDITIONAL SURVEY & ASSESSMENT | | | | | | | 8 | 16 | | 24 | \$ 1,800.00 |
| | Laser Scanning and Processing | | | | | | | | | | | \$ 1,800.00 |
| | TOTAL PHASE I | | | | | | | | | | | |
| II | ADDITIONAL 75% PRELIMINARY CALCULATIONS/SPECIFICATIONS/BID DOCUMENTS | | | | | | | | | | | \$- |
| | TOTAL PHASE II | | | | | | | | | | | |
| III | ADDITIONAL FINAL CONSTRUCTION PLANS/SPECIFICATIONS/BID DOCUMENTS | | | | | | | | | | | \$- |
| | TOTAL PHASE III | | | | | | | | | | | |
| IV | ADDITIONAL BID TABULATIONS & CONTRACT ADMINISTRATION | | | | | | | | | | | \$- |
| | TOTAL PHASE IV | | | | | | | | | | | |
| V | ADDITIONAL CONSTRUCTION ADMINISTRATION AND INSPECTION | | | | | | | | | | | \$- |
| | TOTAL PHASE V | | | | | | | | | | | |
| | | | (a) Man-hours | 0 | 0 | 0 | 0 | 8 | 16 | 0 | 24 | |
| | | | (b) 2018 Rate | \$150.00 | \$140.00 | \$125.00 | \$110.00 | \$85.00 | \$125.00 | \$95.00 | \$65.00 | |
| | | | TOTAL COST: (b)(b) | \$- | \$- | \$- | \$- | \$- | \$760.00 | \$1,040.00 | \$- | \$ 1,800.00 |



(3)

City of Trenton
Structural Improvements, Floor at Station No. 8
January 29, 2019
Page 5

VII. FEES

The 75% Preliminary Design Phase and the Final design Phase effort is anticipated to involve a fee of \$ 15,100. The Construction Administration (CA) effort cannot accurately be determined without information from the contractor. However, we have projected that two half-day site visits will be performed along with office review of contractor information. The CA effort is projected to involve a fee of \$3,000.

In summary, the structural engineering scope of basic services fee is \$ 18,100. Expenses for printing, mail, travel, and related items are budgeted to be an order of magnitude cost of \$ 640. Invoice submissions will be in accordance with the attached General Conditions of service and Schedule of Charges (the Schedule) and City of Trenton protocols. PS&S has about 13 employees who live in close proximity of Trenton and will use their services where practical. We understand that Trenton will not reimburse for travel expenses beyond 20 miles of the city limits.

The appropriate proposal submission documents are attached, separately.

VIII. CLOSURE

PS&S appreciates the opportunity to submit this proposal to the City of Trenton. We are well qualified to assist you with the floor framing issue at Station No. 8. upon your authorization to proceed and receipt of a purchase order, we are prepared to begin our efforts within 5 days.

Should you have any comments regarding this proposal, please feel free to contact Robert or George. Thank you.

Very truly yours,

PAULUS, SOKOŁOWSKI & SARTOR, LLC

A handwritten signature in black ink, appearing to read 'Robert Bernard'.

Robert Bernard, P.E.
Senior Associate

A handwritten signature in black ink, appearing to read 'George A. Reichert'.

George A. Reichert, NICET II
Associate Principal



67A Mountain Blvd Ext
PO Box 4039
Warren, NJ 07059

Proposal/Contract No: 09018-0053-001
Date: January 29, 2019

SCHEDULE OF CHARGES & HOURLY RATES

1. CHARGES FOR SERVICES

When PS&S is to be paid on the basis of time expended and expenses incurred on the Project, compensation shall be determined using the hourly rates. These rates are effective October 1, 2018, but may be modified any time six months thereafter by PS&S, depending upon market conditions.

If the Client requests PS&S to provide other Services in addition to those described in the attached Proposal, PS&S requires a written additional service authorization amending this Agreement, before PS&S will proceed with that work.

| <u>Billable Hourly Rate</u> | <u>Title</u> |
|-----------------------------|--|
| \$ 245 | Principal, SVP, VP, Principal LSRP |
| \$ 220 | Sr. Director, Sr. Project (Manager, Engineer, Architect, Planner, Designer, Scientist, or LSRP) |
| \$ 200 | Director, Project (Engineer, Architect, Planner, Designer, Scientist, or LSRP), Project Manager II |
| \$ 185 | Sr. (Engineer, Architect, Planner, Designer, Scientist, Surveyor or LSRP), Project Manager I |
| \$ 165 | Engineer IV, Architect IV, Planner IV, Designer VI, Scientist VI, LSRP |
| \$ 155 | Engineer III, Architect III, Planner III, Designer V, Scientist V, Project Controls III |
| \$ 145 | Surveyor III, Inspector III |
| \$ 140 | Engineer II, Architect II, Planner II, Designer IV, Scientist IV |
| \$ 130 | Engineer I, Architect I, Planner I, Designer III, Scientist III, CAD Technician III, Project Controls II |
| \$ 120 | Surveyor II, Inspector II |
| \$ 115 | Designer II, Scientist II, Cad Technician II |
| \$ 110 | Designer I, Scientist I, Cad Technician I |
| \$ 100 | Project Controls I |
| \$ 95 | Surveyor I, Inspector I |
| \$ 80 | Technician I |

When survey field crew time is billed on a crew basis, the following rates apply (portal to portal):

| | |
|--------|---------------|
| \$ 235 | 2-person crew |
| \$ 315 | 3-person crew |

2. LICENSED SITE REMEDIATION PROFESSIONAL (LSRP) CONDITIONS

When work performed by PS&S includes the services of an Licensed Site Remediation Professional ("LSRP"), the LSRP will use his or her professional judgment to make recommendations as to actions required based upon the LSRP's review of the applicable statutes, regulations and guidance documents. The Client acknowledges that the LSRP's recommendations or issuance of any Response Action Outcome ("RAO") shall not constitute: (i) any acceptance of liability on behalf of PS&S or any LSRP employed by PS&S; (ii) any form of guarantee, indemnity or insurance for any legal liability or obligation of the Client. Further, the Client acknowledges that when PS&S's services hereunder entail the use of professional judgment, PS&S is not providing any guarantee that any other professional reviewing PS&S's work hereunder will not offer different recommendations or reach different conclusions based on that professional's use of his or her judgment. The Client acknowledges that PS&S is not responsible to the Client or any third-party for costs resulting from a different recommendation or different conclusion rendered by another party.

Under the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. ("SRRA"), the New Jersey Department of Environmental Protection (NJDEP) can audit and review an RAO and the Site Remediation Professional Board can review work performed by an LSRP. Further, an RAO can be invalidated if NJDEP determines that the RAO is not protective of human health and the environment. Neither PS&S nor the LSRP shall be held responsible for the invalidation of the RAO, and any services which might be required due to any such invalidation shall be considered an Additional Service.

The State has established mandatory and regulatory time frames to complete certain remediation requirements. If these time frames are not met, fines and potential NJDEP direct oversight could be imposed upon the Client. To the extent provided for in the scope of work, PS&S will advise the Client of deadlines and actions necessary to fulfill the requirements of such time frames. The Client acknowledges that PS&S's provision of such advice will not and does not shift responsibility for compliance with such time frames to PS&S. Further, if the Client delays in approving and proceeding with the recommendations of PS&S's LSRP in meeting these time frames or the Client delays in payment of services rendered by PS&S, which results in a delay to the progress of the project, the Client agrees that PS&S will not be held responsible or liable for any fees, fines, or financial impacts incurred as a result of NJDEP's direct oversight, fines, and fees.

Furthermore, the Client acknowledges that in the context of supporting any conclusions or recommendations made to any third-party or governmental entity, PS&S may be required to release or otherwise publish: data from tests performed on samples taken from the project location; physical observations of the project location; or other technical information obtained by PS&S regarding the physical conditions of the project location, including but not limited to, submissions made by PS&S's LSRP in connection with a project. Client expressly acknowledges that under SRRA, if the LSRP identifies a condition at the Site that, in the professional judgment of the LSRP, is an Immediate Environmental Concern ("IEC") (as defined in the SRRA), the LSRP is obligated to so advise the Client and to call the NJDEP's telephone hotline to advise the NJDEP of such IEC.

flange structural steel beams. These beams are supported by steel pipe columns and the foundation walls. As indicated above, the supplemental structural framing provided to stabilize the floor framing involves two sets of (2) 3 1/2" x 14" built-up timber girders running parallel with the steel beams and supported by 6" x6" timber posts and temporary adjustable steel shoring jacks. It is PS&S's understanding the location of the timber girders is centered below the approximate location of the wheels of the fire truck.

Beyond the area of the cellar, the first floor is finished as a concrete slab-on-grade. The second floor and roof framing were not reviewed during the walkthrough reconnaissance, and it is believed that no floor repair work involves any areas beyond the vehicle bay.

II. SCOPE OF BASIC SERVICES

PS&S proposes to perform the following Scope of Basic Services in conjunction with this project:

75% Preliminary Design Phase:

1. Visit the site to perform a condition assessment of the existing first floor framing and perform localized building measurements as required due to lack of structural drawings. Plan sketches, along with details, will be prepared to document existing features of the first-floor framing. In addition, observations of the existing conditions will be performed to search for any problematic conditions that may impact anticipate repair or remedial work
2. Utilizing the field collected as-built information, perform structural analysis of the existing first floor framing components to determine their load carrying capacity.
3. Meet with the Trenton Fire Department Chief, or his designee, and the Trenton department of Public works, as appropriate, to consult on facility layout and development of the structural modifications design for the support of a fire truck. PS&S may provide general concepts for reinforcing the existing supplemental supports or, perhaps, reframe the portion of floor utilizing a concrete on composite metal deck floor system.
4. Provide 75% construction drawings with specification information, sections, details, typical details, and general notes, for internal review during a 2-week period.

Final Design Phase:

1. Incorporate comments based on feedback from the City of Trenton representatives.
2. Meet with the Trenton Fire Department Chief, or his designee, and Trenton Department of Public Works, as appropriate, to consult on final layout and development of the structural modifications design for the support of the fire truck.
3. Provide 100% construction drawings and calculations signed and sealed by a Professional Engineer licensed in New Jersey.
4. PS&S will be available to review the Bids received from qualified contractors. The Bid information will be tabulated and summarized, with a recommendation for award.

III. CONSTRUCTION ADMINISTRATION PHASE

1. Review and approve or take other appropriate action upon the Contractor's submittals such as shop drawings, product data and samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Construction Documents. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities or for substantiating instructions for installation or performance of equipment or systems designed by the Contractor, all of which remain the responsibility of the Contractor to the extent required by the Construction Documents.
2. Responses to Requests for Information (RFIs) submitted by the Contractor(s)
3. Visit the site at intervals appropriate to the stage of construction to become generally familiar with the progress and quality of the construction completed and to determine in general if the construction is being performed in a manner indicating that the construction when completed will be in accordance with the Construction Documents. This proposal includes up to two (2) visits during construction.
4. The extent of Construction Administration (CA) services cannot be accurately projected without benefit of determining the method to address the current floor framing concerns. Consequently, the projected effort is subject to adjustment based on the final design and construction approach. The staffing protocols and schedule of the contractor will impact the duration of the CA effort.



900 Haddon Avenue, Suite 412
Collingswood, NJ 08108-2113

Phone: 856-869-4980
Fax: 856-869-4975
E-Mail: bob@remusarchitecture.com

44

Fee Proposal from Remus Architecture LLC

**Engineering Design for the Improvements to Firehouse #8 Floors
Trenton, NJ
Project Number: RFP2019-08**

| | |
|--|---------------------------|
| Survey & Assessment | \$5,740.00 |
| Construction Documents & Specifications | <u>\$15,330.00</u> |
| Sub-Total - Design Phase | \$21,070.00 |
| | |
| Bidding Phase | \$1,470.00 |
| Construction Administration | <u>\$10,240.00</u> |
| | |
| TOTAL – ALL SERVICES | \$32,780.00 |

5

RFP 2019-08
COST PROPOSAL
ENGINEERING DESIGN SERVICES
City Of Trenton

| <u>TASK</u> | <u>Lump Sum Fee</u> |
|--|---------------------|
| A, Survey and Assessment | \$ 3,000.00 |
| 2. Preliminary Bid Document | \$ 13,500.00 |
| 3. Final Bid Document | \$ 8,500.00 |
| 4. BID Evaluation / Tabulation | \$ 800.00 |
| 5. Construction Inspection & Management | \$ 8,500.00 |
| 6. Expenses (Printing / Postage / Mileages / Toll | \$ 1,000.00 |
| TOTAL COST | \$ 35,300.00 |

Signature
Date: 1-28-2019

Kim Law, P.E., President

CONTRACT PRICING PROPOSAL

(Cost Plus Fixed Fee Contracts)

This form is for use when submission of cost or pricing data for a Cost Plus Fixed Fee contract is required.

Page No.
1No. Of Pages
2

| | | |
|--|--|--|
| Name of Offeror | Richard Maloney | Supplies and/or Services to be Furnished |
| Home Office Address | 331 Newman Springs Rd. Ste 203, Red Bank, NJ 07701 | Structral Design and Construction Administration for the Apparatus floor at Engine No. 8 |
| Divisions and Locations Where Work is to be Performed: Engine No. 8 Trenton, NJ | | Total Amount of Proposal \$41,714 |

DETAIL DESCRIPTION OF COST ELEMENTS

| 1. DIRECT LABOR- Specify Employee Title | Estimated Hours | Payroll Rate/ Hours | Est Cost (\$) | | Reference |
|---|-----------------|-----------------------|--------------------|---|-----------|
| Senior Tech. Dir. - Geotech | 1 | \$70.00 | \$70 | | |
| Senior Project Manager - Geotech. | 12 | \$60.00 | \$720 | | |
| Site Tech. - Geotech | 10 | \$40.00 | \$400 | | |
| Senior Tech. Dir. - Struct. Design | 3 | \$70.00 | \$210 | | |
| Senior Project Manager - Struct. Design | 46 | \$60.00 | \$2,760 | | |
| Tech. Professional -Struct. Design | 60 | \$40.00 | \$2,400 | | |
| Tech. Dir. Project Manager - CM | 55 | \$50.00 | \$2,750 | | |
| Site Tech. - CM | 55 | \$35.00 | \$1,925 | | |
| | | | \$0 | | |
| | | | \$0 | | |
| | | | \$0 | | |
| | | | \$0 | | |
| | | | \$0 | | |
| | | | \$0 | | |
| | | | \$0 | | |
| TOTAL DIRECT LABOR | | | \$11,235.00 | | |
| 2. LABOR OVERHEAD (Specify Cost Center) | O.H. Rate | X Direct Labor Base = | Est Cost (\$) | | |
| | 172.80% | \$11,235.00 | \$19,414.08 | | |
| | | | | * | |
| | | | | | |
| TOTAL LABOR OVERHEAD | | | \$19,414.08 | | |
| 3. Direct Expenses (From Exhibit A) | | | | | |
| Total Direct Expenses | | | \$500.00 | | |
| | | | | | |
| 4. SUB-CONSULTANTS - (You must provide a separate detailed budget for each if over \$5,000) | | | Est Cost (\$) | | |
| Geotech: Saw Cutting, Coring, Restoration | | | \$2,500.00 | | |
| Plumbing Engineer: Floor Drain Design | | | \$5,000.00 | | |
| | | | \$0.00 | | |
| | | | \$0.00 | | |
| | | | \$0.00 | | |
| | | | \$0.00 | | |
| | | | \$0.00 | | |
| TOTAL SUB-CONSULTANTS | | | \$7,500 | | |
| 5. TOTAL OF ITEMS 1 -4: DIRECT LABOR, LABOR OVERHEAD,DIRECT EXPENSES, SUB-CONSULTANTS | | | \$38,649 | | |
| FEE OR PROFIT (10% of ITEMS 1 AND 2 Direct Labor & Overhead) | | | | | |
| Items 1 & 2-Direct Labor and Overhead | | | \$30,649.08 | | |
| 6.Fee or Profit | | | \$3,064.91 | | |
| | | | | | |
| | | | | | |
| 7. TOTAL ESTIMATED COST AND FEE OR PROFIT (ADD ITEMS 5 AND 6) | | | \$41,713.99 | | |

This Proposal is Submitted for use in connection with and in response to (Describe RFP, etc.)

and reflects our best estimates as of this date, in accordance with the instructions to Offerors and the Footnotes which follow.

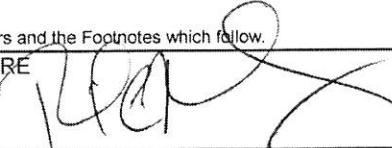
| | | |
|---|--|---|
| TYPED NAME AND TITLE Richard Maloney P.E., Discipline Leader | | SIGNATURE  |
| NAME OF FIRM Maser Consulting | | Date of Submission 1/30/2019 |

EXHIBIT A-SUPPORTING SCHEDULE - DIRECT EXPENSES (specify If more space is needed, use reverse)

| COST EL NO. | Item Description (See footnote 5) | EST COST (\$) |
|-------------|---|---------------|
| | | |
| | Materials and Supplies (Describe) | |
| | Example: Printing | \$500.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | Travel (Describe) | |
| | Example: Automobile | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | Special Equipment and/or Testing (Describe) | |
| | | \$0.00 |
| | | \$0.00 |
| | Other Direct Expenses (Describe) | |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | \$0.00 |
| | | |
| | Total Direct Expenses | \$500.00 |

I. Has any Executive Agency of the United States Government Performed any Review of Your Accounts or Records in Connection with any other Government Prime Contract or Subcontract Within the Past Twelve Months?

YES NO (If Yes, identify below)

| | |
|---|----------------------------|
| NAME AND ADDRESS OF REVIEWING OFFICE AND INDIVIDUAL | TELEPHONE NUMBER/EXTENSION |
|---|----------------------------|

II. Will you Require the use of any Government Property in the Performance of this Proposed Contract?

YES NO (If Yes identify on reverse or separate page)

III. Do you now Require Government Contract Financing to Perform this Proposed Contract?

YES NO Advance Payments Progress Payments or Guaranteed Loans
(If yes, identify)

IV. Do you now hold any Contract (Or, do you have independently financed (IR&D) projects) For the same or similar work called for by this Proposed Contract?

YES NO (If yes, identify)

V. Does this Cost Summary Conform with the Cost Principles set forth in Agency Regulations?

YES NO (If No explain on reverse or separate page)



PROFESSIONAL ENGINEERING AND CONSTRUCTION INSPECTION SERVICES REGARDING STRUCTURAL IMPROVEMENTS TO FIRE APPARATUS FLOORS AT ENGINE STATIONS NO. 8
CITY OF TRENTON, MERCER COUNTY, NEW JERSEY

| ASCE GRADE | PVII | PVI | PV | PIV | PIII | PII | P1 | E1S | E13 | E14 | Clerical |
|--|--|---|--|--|-----------------------|-----------------------------------|-----------------------------------|---|---|---------------------|------------|
| DESCRIPTION | PRINCIPAL, SENIOR TECHNICAL DIRECTOR/ LSRP | SENIOR PROJECT PROFESSIONAL PROJECT MANAGER | SENIOR TECHNICAL DIRECTOR/ PROJECT MANAGER | SENIOR PROJECT SPECIALIST SENIOR TECH. PROF. | PROJECT SPECIALIST | SENIOR TECHNICAL SPECIALIST | SENIOR TECHNICAL SPECIALIST | SENIOR DATA TECHNICIAN/ SENIOR TECH. ASSISTANT | SENIOR DATA TECHNICIAN/ SENIOR TECH. ASSISTANT | TECH. SPECIALIST | TOTAL. |
| TASK | | | | | | | | | | | |
| 1a | Survey and Assessment - Geotechnical | | | | | | | | | | 23 |
| 1b | Survey and Assessment - Structural | | | | | | | | | | 31 |
| 2 | 75% Preliminary Construction Plans/Specs | 1 | 15 | | | | | | | | 36 |
| 3 | Final Construction Plans/Specs | 1 | 10 | | | | | | | | 28 |
| 4 | Bid Tabulation and Contract Administration | 2 | | | | | 4 | | | | 6 |
| 5 | Construction Inspection and Management | 4 | 55 | | | | 4 | 55 | | | 118 |
| | | | | | | | | | | | 0 |
| | | | | | | | | | | | 0 |
| | | | | | | | | | | | 0 |
| | | | | | | | | | | | 0 |
| | | | | | | | | | | | 0 |
| | | | | | | | | | | | 0 |
| | | | | | | | | | | | 242 |
| Hours Total | | | | | | | | | | | |
| Maximum Direct Hourly Wage Rate (See Note 1) | \$77.00 | \$70.00 | \$60.00 | \$50.00 | \$45.00 | \$40.00 | \$45.00 | \$55.00 | \$26.50 | \$22.00 | \$1,235.00 |

Notes: 1 Maximum Direct Hourly Wage Rate is used to establish Total Project Not To Exceed Direct Hourly Rate per Title/ASCE grade for the project duration.

| | |
|---------------------------------|--------------------|
| Direct Salaries Total | \$11,235.00 |
| Overhead Rate (1.728) | \$ 19,414.68 |
| Fixed Fee (10%) | \$ 3,664.91 |
| Direct Expenses: Subconsultants | \$7,500.00 |
| Direct Expenses: Other | \$500.00 |
| Project Total | \$41,713.99 |

ESTIMATED FEES

| Task A. Survey and Assessment | | |
|---|----------------------|--------------------|
| One (1) Site Visit | | |
| As-built Structural (Second, Ground Floor & Basement) Framing Plans | | |
| One (1) 2-hr Teleconference Call Meeting | | |
| | Lump Sum | \$4,750 |
| Task B. 75% Preliminary Construction Plans / Specifications / Bid Document Preparation | | |
| One (1) Submission of 75% Preliminary Bid Package | | |
| One (1) 4-hr Teleconference Call Meeting | | |
| | Lump Sum | \$10,350 |
| Task C. Final Construction Plans / Specifications / Bid Document Preparation | | |
| Final Bid Package | | |
| One (1) 4-hr Teleconference Call Meeting | | |
| | Lump Sum | \$5,725 |
| Task D. Bid Tabulation and Contract Administration | | |
| Review of Bids | | |
| Contract Award Assistance and Support | | |
| | Lump Sum | \$3,800 |
| Task E. Construction Inspection and Management | | |
| Construction Inspections & Full-time Oversight @ \$90.60/hr | | |
| Construction Management @ \$118.79/hr | | |
| | Not to Exceed Budget | \$46,000 |
| Reimbursable Expenses | | |
| Mileage & Tolls | | |
| Document Reproduction | | |
| | Not to Exceed Budget | \$3,000 |
| GRAND TOTAL | | \$73,625.00 |

EXCLUSIONS

1. Services not explicitly described above are not included within the scope of this proposal.
2. Permits and approvals required for all work included above shall be the responsibility of the client.
3. See exclusions stated in the notes section within each scope of work Tasks A, B, C, D, and E listed above.

TERMS AND CONDITIONS

1. The fees listed in this proposal are valid for 45 calendar days, from the date listed on the front page. It is in MFS's sole discretion to extend the validity date of the fees beyond 45 calendar days.
2. MFS will invoice monthly, based on progress, in accordance with the above fees and 2018 MFS Schedule of Fees, Terms, and Conditions.
3. Any work completed outside of the proposed scope (e.g. change orders) will be invoiced in accordance with the 2018 MFS Schedule of Fees, Terms and Conditions.
4. Additional design changes after completion of 100% design drawings, if required, will be completed on a time and material basis. Additional charges will not apply if the design changes are due to MFS error/omission.
5. All drawings and calculation packages will be signed and sealed by a New Jersey Professional Engineer.
6. Any hours worked outside of normal construction site hours (Monday through Friday, 7:00 am - 3:30 pm) for site visits or field inspections will be billed at the corresponding overtime premium.
7. Meetings and field visits outside the scope will be billed using the construction administration budget amount.
8. This proposal includes two (2) drawing sets (24 x 36 inch) for each submittal as stated in the above scope. Any additional sets will be billed at the below per sheet prices plus time spent in plotting process.

| | | | |
|---------------|------------------|-----------------|-------------------|
| A. 18x24 B&W: | \$2.50/per sheet | D. 18x24 Color: | \$4.00/per sheet |
| B. 24x36 B&W: | \$4.00/per sheet | E. 24x36 Color: | \$7.00/per sheet |
| C. 36x48 B&W: | \$7.00/per sheet | F. 36x48 Color: | \$13.00/per sheet |
9. Any reimbursable expenses shall be billed in accordance with the attached 2018 MFS Schedule of Fees, Terms and Conditions.

SCHEDULE

MFS is available to start work immediately upon given written authorization to proceed and receipt of project deliverables.

Note: If the required project deliverables are not received from the client upon award of project, MFS cannot guarantee above deadlines will be met.

The client will be invoiced on a monthly basis, as work is completed. The client will pay MFS invoices for its fees for services within 30 days from the date of the invoice. MFS will not exceed the above budget amounts without prior authorization.

Cost Proposal

| | Planned Hrs | Bill Rate | Planned Billed |
|---|--------------|------------------|----------------|
| Trenton Firehouse Apparatus Floor Improvements | | | |
| Labor | 640.0 | 93,722.00 | |
| Total for Trenton Firehouse Apparatus Floor Improvements | 640.0 | 93,722.00 | |
| Cost Breakdown | | | |
| Survey and Assessment | | | |
| Labor | 80.0 | 12,760.00 | |
| Ressler, Kenneth | 8.0 | 175.00 | 1,400.00 |
| Trovato, Jacqueline | 16.0 | 169.00 | 2,704.00 |
| Butler, Mitchell | 40.0 | 164.00 | 6,560.00 |
| Mobilio, Michael | 16.0 | 131.00 | 2,096.00 |
| Total for Survey and Assessment | 80.0 | 12,760.00 | |
| Total for 75% Construction Plans/Specifications/Bid Document Preparation | | | |
| Labor | 76.0 | 11,492.00 | |
| Ressler, Kenneth | 4.0 | 175.00 | 700.00 |
| Trovato, Jacqueline | 8.0 | 169.00 | 1,352.00 |
| Butler, Mitchell | 32.0 | 164.00 | 5,248.00 |
| Mobilio, Michael | 32.0 | 131.00 | 4,192.00 |
| Total for 75% Construction Plans/Specifications/Bid Document Preparation | 76.0 | 11,492.00 | |
| Final Construction Plans/Specifications/Bid Document Preparation | | | |
| Labor | 92.0 | 12,892.00 | |
| Ressler, Kenneth | 4.0 | 175.00 | 700.00 |
| Trovato, Jacqueline | 8.0 | 169.00 | 1,352.00 |
| Gomes, John | 32.0 | 164.00 | 5,248.00 |
| Mobilio, Michael | 32.0 | 131.00 | 4,192.00 |
| Meyer, Carl | 8.0 | 104.00 | 832.00 |
| Rodgers, Gail | 8.0 | 71.00 | 568.00 |
| Total for Final Construction Plans/Specifications/Bid Document Preparation | 92.0 | 12,892.00 | |
| Bidding and Contract Administration | | | |
| Labor | 36.0 | 5,308.00 | |
| Ressler, Kenneth | 8.0 | 175.00 | 1,400.00 |
| Trovato, Jacqueline | 12.0 | 169.00 | 2,028.00 |
| Butler, Mitchell | 8.0 | 164.00 | 1,312.00 |
| Rodgers, Gail | 8.0 | 71.00 | 568.00 |
| Total for Bidding and Contract Administration | 36.0 | 5,308.00 | |
| Construction Inspection and Management | | | |
| Labor | 356.0 | 51,320.00 | |
| Ressler, Kenneth | 16.0 | 175.00 | 2,800.00 |
| Trovato, Jacqueline | 40.0 | 169.00 | 6,760.00 |
| Donofrio, Anthony | 60.0 | 164.00 | 9,840.00 |
| Observer NICET II/III | 240.0 | 133.00 | 31,920.00 |
| Total for Construction Inspection and Management | 356.0 | 51,320.00 | |
| Total for Trenton Firehouse Apparatus Floor Improvements | 640.0 | 93,772.00 | |