

RFP2021-36 DESIGN, BIDDING AND CONSTRUCTION PHASE ENGINEERING SERVICES FOR MAJOR UPGRADE TO THE CENTRAL PUMPING STATION FOR THE CITY OF TRENTON, DEPARTMENT OF WATER AND SEWER PROPOSALS OPENED 7/22/2021 AT 11:00AM

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| RFP2021-36 DESIGN, BIDDING AND CONSTRUCTION PHASE ENGINEERING SERVICES FOR MAJOR UPGRADE TO THE CENTRAL PUMPING STATION FOR THE CITY OF TRENTON, DEPARTMENT OF WATER AND SEWER | | | | |
| NUMBER OF RESPONDENTS: | 4 | | | |
| NAME OF BIDDER | HERBERT, ROWLAND AND GRUBIC, INC. | MOTT MACDONALD, LLC | H2M ASSOCIATES, INC. | JACOBS ENGINEERING GROUP, INC. |
| ADDRESS | 501 ALLENDALE ROAD, SUITE 203 | 111 WOOD AVENUE SOUTH | 4810 BELMAR BOULEVARD | 412 MT. KEMBLE AVENUE, SUITE 100S |
| CITY, STATE, ZIP | KING OF PRUSSIA, PA 19406 | ISELIN, NJ 08830 | WALL TOWNSHIP, NJ 07753 | MORRISTOWN, NJ 07960-1936 |
| CONTACT NAME | ALLEN SNYDER | DAVID THOMAS, CENG | STEVEN C. HEARL, P.E., LEED AP, VICE PRESIDENT | RUSEEL FORD, PHD, PE |
| TELEPHONE | 484-460-7050 | 973-912-2516 | 732-414-2661 | 862-242-7040 |
| FAX | 717-564-1158 | 973-376-2516 | 732-414-2662 | 973-267-3555 |
| E-MAIL | ASNYDER@HRG-INC.COM | DAVID.THOMAS@MOTTMAC.COM | SHEARL@H2M.COM | RUSSELL.FORD@JACOBS.COM |
| OWNERSHIP DISCLOSURE STATEMENT | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| EQUAL EMPLOYMENT OPPORTUNITY EXHIBIT A | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| REQUIRED EVIDENCE EEO/AFFIRMATIVE ACTION REGULATIONS QUESTIONNAIRE | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| ACKNOWLEDGEMENT OF RECEIPT OF ADDENDA #1 DATE 7/8/2021 | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| ACKNOWLEDGEMENT OF RECEIPT OF ADDENDA #2 DATE 7/12/2021 | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| NJ BUSINESS REGISTRATION CERTIFICATE | REQUIRED FROM AWARDED VENDOR | INCLUDED | INCLUDED | INCLUDED |
| NON-COLLUSION AFFADAVIT | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| AMERICANS WITH DISABILITIES ACT OF 1990 LANGUAGE | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| ETHICS COMPLAINT DISCLOSURE DEFARMENT NOTICE | INCLUDED INCLUDED | INCLUDED INCLUDED | INCLUDED INCLUDED | INCLUDED INCLUDED |
| CERTIFICATION AND DISCLOSURE OF POLITICAL CONTRIBUTIONS | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| DISCLOSURE OF INVESTED ACTIVITIES IN IRAN | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| CITY OF TRENTON RESIDENT EMPLOYMENT POLICY | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| EIC | REQUIRED FROM AWARDED VENDOR | CERT.#2062 EXP. 08/15/2024 | CERT.#3244 EXP. 05/15/2023 | CERT.#3187 EXP. 01/15/2023 |
| CERTIFICATE OF INSURANCE | REQUIRED FROM AWARDED VENDOR | REQUIRED FROM AWARDED VENDOR | REQUIRED FROM AWARDED VENDOR | REQUIRED FROM AWARDED VENDOR |
| 60-DAY EXTENSION COMPLIANCE | YES | YES | YES | YES |
| PROVIDE PRIORITY EMERGENCY SERVICES | YES | YES | YES | YES |
| REFERENCES | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| W-9 | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| EXCEPTIONS (IF ANY) | NONE | NONE | NONE | NONE |
| TOTAL LUMP SUM FEE | \$350,700.00 SEE ATTACHED BREAKDOWN OF PRICING | \$419,950.00 (SEE ATTACHED BREAKDOWN OF PRICING) | \$500,145.00 (SEE ATTACHED BREAKDOWN OF PRICING) | \$745,750.00 (SEE ATTACHED BREAKDOWN OF PRICING) |
| FATAL FLAW | NONE | NONE | NONE | NONE |

ESTIMATED FEE & BILLING RATES

Estimated Fee

HRG proposes to perform the Base Scope of Services identified in Section 4 of our proposal for a lump sum fee of \$350,700. The breakdown of fee for our services is further described below:

| | |
|---|-------------------|
| Preliminary Design Memorandum (30% Completion): | \$ 59,100 |
| Final Design (30-100% Completion): | \$ 88,700 |
| Arc Flash Analysis: | \$ 22,000 |
| Project Management: | \$ 10,000 |
| Permitting: | \$ 7,000 |
| NJ iBank Funding Support: | \$ 9,500 |
| Bid Phase: | \$ 8,400 |
| Construction Administration: | \$ 80,500 |
| Resident Project Representative: | <u>\$ 65,500</u> |
| TOTAL LUMP SUM FEE: | \$ 350,700 |

The fees above exclude the following additional services which would be provided by HRG upon authorization from the City

1. HRG will perform the required Hydraulic Modeling of the Phase I and Phase II improvements to aid in the selection of the proposed pumps for an additional lump sum fee of \$28,000.
2. 3D laser modeling of the interior of the pump station including first floor and basement, to provide base mapping to be utilized for more detailed construction drawings/documents for an additional lump sum fee of \$12,000.

Billing Rates

The following fee schedule of hourly rates for all HRG employees to be engaged in the design of the Project is provided in accordance with the RFP. This fee schedule will remain effective for the Project upon the Town's acceptance and extending through project completion.



| 2021 HRG RATES | |
|--|---------------|
| BILLING CATEGORIES | RANGE |
| Administration I | \$55 - \$65 |
| Administration II | \$65 - \$80 |
| Environmental Scientist I | \$85 - \$105 |
| Environmental Scientist II | \$105 - \$125 |
| Senior Environmental Scientist | \$125 - \$140 |
| Planner I | \$85 - \$105 |
| Planner II | \$105 - \$125 |
| Senior Planner | \$125 - \$140 |
| Landscape Architect I | \$85 - \$105 |
| Landscape Architect II | \$105 - \$125 |
| Senior Landscape Architect | \$125 - \$140 |
| Surveyor I | \$70 - \$90 |
| Surveyor II | \$90 - \$120 |
| Senior Surveyor | \$120 - \$135 |
| GIS Professional I | \$85 - \$105 |
| GIS Professional II | \$105 - \$125 |
| Senior GIS Professional | \$125 - \$150 |
| Resident Project Representative I | \$70 - \$100 |
| Resident Project Representative II | \$100 - \$120 |
| Senior Resident Project Representative | \$120 - \$135 |
| Junior Technician | \$60 - \$65 |
| Technician I | \$85 - \$105 |
| Technician II | \$105 - \$125 |
| Senior Technician | \$125 - \$140 |
| Financial Services Professional I | \$105 - \$125 |
| Financial Services Professional II | \$125 - \$135 |
| Senior Financial Services Professional | \$135 - \$150 |
| Engineering Professional I | \$105 - \$125 |
| Engineering Professional II | \$125 - \$145 |
| Project Engineer | \$145 - \$155 |
| Senior Project Engineer | \$155 - \$165 |
| Assistant Project Manager | \$125 - \$145 |
| Project Manager | \$145 - \$155 |
| Senior Project Manager | \$155 - \$165 |
| Operations Manager/Senior Technical Leader | \$155 - \$180 |
| Principal | \$175 - \$185 |

All non-exempt employees have overtime rates of 1.5 times their normal billing rate.

PLEASE NOTE: HRG adjusts the rate schedule annually to reflect the cost of doing business for the coming year. This rate schedule is effective January 1, 2021 through December 31, 2021.

01/01/21

- Professionals include Engineers, Land Surveyors, Landscape Architects, Planners, Geologists, Scientists and similar professionals.
- Technicians include Designers, CADD Operators, Survey Technicians and similar technical staff.

8. Fee proposal

This section provides a summary of our engineering fee proposal and labor breakdown summary for each project task. The fees for each task are reimbursable not to exceed fees as requested in the RFP. The fee for resident observation will be reimbursable and is based on the RFP specified 750 hours of field inspection.

Our not to exceed fees are as follows:

| | |
|---|----------------------|
| Preliminary design and data collection | \$30,000.00 |
| Design, Permitting and Loan Application | \$ 161,500.00 |
| Bid Period Services | \$ 8,500.00 |
| Construction Phase Services | \$86,200.00 |
| Resident Project Representative | \$83,750.00 |
| Allowance | \$ 50,000.00 |
| Total Fee | \$ 419,950.00 |

The following table includes the breakdown of the labor for each task.

| Phase | Task Description | Phase Description | Billing Titles and Hourly Rates | | | | | | | | | | |
|----------|-----------------------------|---|---------------------------------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|---|-------------------------|---------------|
| | | | Staff 2 | Proj 1 | Sen. Inspector | Proj 2 | Sr Proj | PM | Sen. PM | Principal | Equipment, Travel, Lab, Service, Printing | Total H2M Hours by Task | Fee Submittal |
| | | HOURLY RATE | \$ 105.00 | \$ 120.00 | \$ 125.00 | \$ 135.00 | \$ 155.00 | \$ 180.00 | \$ 205.00 | \$ 225.00 | | | |
| 1 | Design & Permits | Data Collection & Document Review | 80 | | | 40 | | 8 | | | 128 | \$ 18,600.00 | |
| | | Design Memorandum | 80 | | | 40 | | 8 | | | 128 | \$ 18,600.00 | |
| | | Design - Water Process - 3D Scanning Effort/Equip. Allowance | 320 | | | 40 | | | | | \$ 2,500.00 | 40 | \$ 9,700.00 |
| | | Design - Water Process | | | | 80 | | 16 | | | 416 | | \$ 56,400.00 |
| | | Design - Electrical | | | | 160 | | 16 | | | 176 | | \$ 32,400.00 |
| | | Design - Arc Flash / Short Circuit Studies (Ex. + Prop. Gear) | | | | 100 | | 10 | | | 110 | | \$ 20,250.00 |
| | | Design - Controls | | | | 80 | | 8 | | | 88 | | \$ 16,200.00 |
| | | Design - Security Components (Limited to Video, Door Alarms) | | | | 40 | | 4 | | | 44 | | \$ 6,100.00 |
| | | Design - Structural (Pedestals and Thrust Restraint) | 40 | | | 16 | | 4 | | | 60 | | \$ 8,580.00 |
| | | Permitting - Limited to NJDEP / BWSE | 40 | | | 8 | | 4 | | | 52 | | \$ 7,140.00 |
| | | NJ-Bank - Application Support | 80 | | | 40 | | 12 | | | 132 | | \$ 19,500.00 |
| | | Design Phase Meetings | 16 | | | 16 | | 8 | | | 40 | | \$ 6,600.00 |
| | | PM and QAQC | 24 | | | 24 | | 8 | | | 32 | | \$ 6,120.00 |
| 2 | Bid Services | Coord Advertisement | | | | 1 | | | | | 5 | | \$ 660.00 |
| | | Administer Pre-Bid Meeting | 4 | | | 4 | | 2 | | | 10 | | \$ 1,680.00 |
| | | Bid Phase RFIs | 24 | | | 8 | | 4 | | | 36 | | \$ 5,220.00 |
| | | Bid Opening / Review / Recommendation | 4 | | | 4 | | 2 | | | 10 | | \$ 1,680.00 |
| 3 | Con Services | Pre-Con Meeting | | | | 4 | | 2 | | | 14 | | \$ 2,130.00 |
| | | Shop Drawing Submittals Management | 8 | | | 24 | | 4 | | | 108 | | \$ 14,820.00 |
| | | RFI Management | 80 | | | 24 | | 4 | | | 108 | | \$ 14,820.00 |
| | | Amendment Request Reviews | 24 | | | 8 | | 4 | | | 36 | | \$ 5,220.00 |
| | | Pay / App Reviews | 80 | | | 20 | | 4 | | | 104 | | \$ 14,100.00 |
| | | Monthly Progress Meetings Management | 160 | | | 80 | | 20 | | | 260 | | \$ 38,100.00 |
| | | O&M Manuals | 80 | | | 24 | | 4 | | | 108 | | \$ 14,820.00 |
| | | As-Built Drawings | 40 | | | 12 | | 4 | | | 56 | | \$ 7,860.00 |
| | | Purchlist Management | 20 | | | 8 | | 2 | | | 30 | | \$ 4,290.00 |
| | | Administrative Closeout | 16 | | | 4 | | 1 | | | 21 | | \$ 2,865.00 |
| | | Resident Observer | | | | 750 | | | | | 750 | | \$ 93,750.00 |
| | | Allallowance - Miscellaneous | | | | | | | | | | | \$ 262,775.00 |
| | | TASK TOTAL | 0 | 1280 | 41% | 750 | 0 | 0 | 0 | 909 | 0 | 163 | \$ 500,145.00 |
| | | | 0% | | | | | | | 29% | 0% | 5% | |
| | | | | | | | | | | 52500 | 3102 | | \$ 500,145.00 |

8. Fee Proposal

Our fee for the work as defined in the RFP and as clarified by our approach and scope is \$745,750. This includes the \$50,000 allowance in Task 3, Construction. A breakdown of our costs, hours, expenses and rates is provided in the table below.

| Rate Year 1-> | | | | | | | | | | \$ 278 | \$ 244 | \$ 201 | \$ 166 | \$ 158 | \$ 180 | \$ 90 | \$ 100 | \$ 222 | \$ 234 | \$ 147 | \$ 104 |
|---------------|--------------|-------|-------------|-----------|-------------|------------------|-----------------|-------|------------------|----------|---------------------|------------------------|---------------------|--------|-------------------|-------------------|----------------------|--------|--------|--------|--------|
| Task | Description | Hours | Labor Costs | Expenses | Total Costs | Project Director | Project Manager | QA/QC | Project Engineer | Security | Structural Engineer | JR Structural Engineer | Electrical Engineer | I&C | Hydraulic Modeler | Resident Engineer | Jr. Project Engineer | | | | |
| 1 | Design | 1884 | \$ 297,267 | \$ 4,500 | \$ 301,767 | 16 | 220 | 100 | 400 | 100 | 8 | 40 | 360 | 160 | 80 | 0 | 400 | | | | |
| 2 | Bidding | 66 | \$ 9,537 | \$ 252 | \$ 9,789 | 2 | 8 | 0 | 16 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 24 | | | | |
| 3 | Construction | 2270 | \$ 382,694 | \$ 51,500 | \$ 434,194 | 8 | 496 | 0 | 248 | 0 | 4 | 16 | 276 | 64 | 40 | 750 | 368 | | | | |
| | | 4,220 | \$ 689,498 | \$ 56,252 | \$ 745,750 | 26 | 724 | 100 | 664 | 100 | 12 | 56 | 652 | 224 | 120 | 750 | 792 | | | | |

Rates will be based on a 2.5 multiplier. They escalate by 3% on Jan 1, 2022 and Jan 1, 2023.

Expenses include \$50,000 allowance in Task 3 per the RFP.