

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

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	INCLUDED	INCLUDED	INCLUDED	INCLUDED
DEBARMENT NOTICE	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.

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- 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.

Trenton Water Works
 Central Pumping Station
 Project No. 207103172
 RFP 2021-01
 Summary of Tasks
 LABOR

Discipline Task/Grade Name:	PP Principal Stanley	PM Mgr M.A.	Hydraulics Eng III Youssef	Site/Process Eng IV R Flayeh	Engr SR Engr Scl. Months	ICA Sr PM Prebsci	ICA Sr PM Hinds	ICA Eng I Sundaraman	Electrical Sr Eng Ammer	Electrical VP Mazzilli	Electrical Eng III Trahade	Mechanical VP/SG LaPlaza	Mechanical D Wang	Mechanical C Lopez	Survey F w. DiBenedo	Survey C R. Andrews	Structural F Nieto	Structural E Li	Structural C Alvarez	Structural C Thompson	Total Hours	Labor Fee	Direct Costs	Total Fee
Task 1 - Preliminary Design - Data Collection	10	15	53	18	4	0	0	0	6	6	0	8	10	10	24	8	0	0	0	0	178	\$ 28,150.00	\$ 1,650.00	\$ 30,000.00
Task 2 - Design and Permitting	29	85	49	245	0	11	81	78	119	31	177	31	46	46	0	0	8	13	44	72	1,102	\$ 81,000.00	\$ 500.00	\$ 161,500.00
Task 3 - Bidding	1	7	6	22	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	46	\$ 7,000.00	\$ 1,500.00	\$ 8,500.00
Task 4 - Construction Administration	20	74	0	188	0	0	28	44	52	16	12	22	6	6	0	0	6	0	24	16	510	\$ 85,800.00	\$ 600.00	\$ 86,400.00
Task 5 - Allowances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ 150,000.00	\$ 50,000.00	\$ 200,000.00
Task 6 - Resident Observation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	750	\$ 71,750.00	\$ 5,000.00	\$ 76,750.00
Total Hours	60	164	129	473	4	11	101	122	177	47	189	64	64	64	24	8	14	13	69	89	2,886	\$ 386,700.00	\$ 5,250.00	\$ 419,950.00
Total Labor Fee:	\$ 18,000.00	\$ 46,453.77	\$ 91,877.00	\$ 51,743.87	\$ 787.84	\$ 2,541.33	\$ 21,365.24	\$ 11,961.59	\$ 16,827.61	\$ 16,827.61	\$ 20,463.72	\$ 2,473.88	\$ 11,878.14	\$ 5,157.20	\$ 4,094.56	\$ 916.00	\$ 3,076.10	\$ 2,344.35	\$ 7,405.16	\$ 3,313.52	\$ 386,700.00	\$ 5,250.00	\$ 419,950.00	



Phase		Task Description	Billing Titles and Hourly Rates										Phase Description	
			Staff 2	Proj 1	Sen. Inspector	Proj 2	Sr Proj	PM	Sen. PM	Principal	Equipment, Travel, Lab Services, 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												\$ 9,700.00
		Design - Water Process		320									416	\$ 56,400.00
		Design - Electrical											176	\$ 32,400.00
		Design - Atc Flash / Short Circuit Studies (Ex. + Prop Gear)											110	\$ 20,250.00
		Design - Controls											88	\$ 16,200.00
		Design - Security Components (limited to Video, Door Alarms)											44	\$ 8,100.00
		Design - Structural (Pedestals and Thrust Restraint)			40								60	\$ 8,580.00
		Permitting - Limited to NJDEP / BWSE			40								52	\$ 7,140.00
2	Bid Services	NJ I-Bank - Application Support		80								132	\$ 19,500.00	
		Design Phase Meetings		16								40	\$ 6,600.00	
		PM and QA/QC										32	\$ 6,120.00	
		Coord Advertisement		4								5	\$ 660.00	
		Administer Pre-Bid Meeting		4								10	\$ 1,650.00	
		Bid Phase RFIs		24								36	\$ 5,220.00	
		Bid Opening / Review / Recommendation		4								10	\$ 1,650.00	
		Pre-Con Meeting		8								14	\$ 2,130.00	
		Shop Drawing Submittals Management		80								108	\$ 14,820.00	
		RFI Management		80								108	\$ 14,820.00	
3	Con Services	Amendment Request Reviews		24								36	\$ 5,220.00	
		Pay App Reviews		80								104	\$ 14,100.00	
		Monthly Progress Meetings Management		160								260	\$ 38,100.00	
		O&M Manuals		80								108	\$ 14,820.00	
		As-Built Drawings		40								56	\$ 7,860.00	
		Punchlist Management		20								30	\$ 4,290.00	
		Administrative Closeout		16								21	\$ 2,865.00	
		Resident Observer				750							750	\$ 93,750.00
		Allowance - Miscellaneous											0	\$ 50,000.00
TASK TOTAL			0	1280	750	0	0	909	0	163	52500	3102	\$ 500,145.00	
			0%	41%	24%	0%	0%	29%	0%	5%				

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.