

CC2021-04 DESIGN, BIDDING AND CONSTRUCTION PHASE ENGINEERING SERVICES FOR PHASE 1 FOR THE INSTALLATION OF STORAGE TANKS AT 942 PROSPECT STREET FOR THE CITY OF TRENTON,  
DEPARTMENT OF WATER AND SEWER PROPOSALS OPENED 9/8/2021 AT 11:00AM

## PROPOSAL FEE BREAKDOWN

## STAFFING

PHASE DESCRIPTION	PIC/PO	Sr. PM	PM	Sr. Proj. Licensed Professional	Licensed Professional	Sr. Designer/Sr. Survey Analyst	Designer/Survey Analyst	Proj. Administrator	Sr. Inspector	Technician	Total Hrs	Sub-Consultant(s)	Expenses	Total \$
Project 1: Storage Tanks - Task 3 - Construction Phase Services	8	0	137.5	32	355	0	170	50	2080	0	2832.5	\$ -	\$ 1,325	\$ 341,993
Project 2: Distribution Improvements - Task 1 - Design/Permitting Services	26.75	8	47	0	240	68	510	18	16	77	853.25	\$ 30,000	\$ 3,800	\$ 160,339
Project 2: Distribution Improvements - Task 2 - Bid Services	1	0	6	0	20	0	8	10	0	0	45	\$ -	\$ 2,125	\$ 8,025
Project 2: Distribution Improvements - Task 3 - Construction Phase Services	6	0	68.5	0	145	0	78	14	800	0	1111.5	\$ -	\$ 80,625	\$ 214,748
Project 2: Distribution Improvements - Task 4 - TWW Operational Materials & Support	4	0	28	0	208	0	0	0	0	0	240	\$ -	\$ 500	\$ 33,560
<b>Total Hours</b>	<b>45.75</b>	<b>8</b>	<b>287</b>	<b>32</b>	<b>968</b>	<b>68</b>	<b>766</b>	<b>92</b>	<b>2896</b>	<b>77</b>	<b>5082.25</b>	<b>\$ 30,000</b>	<b>\$ 88,375</b>	<b>\$ 758,664</b>
<b>Fee Structures</b>	<b>\$ 160</b>	<b>\$ 158</b>	<b>\$ 155</b>	<b>\$ 150</b>	<b>\$ 135</b>	<b>\$ 125</b>	<b>\$ 120</b>	<b>\$ 115</b>	<b>\$ 115</b>	<b>\$ 100</b>				
<b>Total</b>	<b>\$ 7,320</b>	<b>\$ 1,264</b>	<b>\$ 44,485</b>	<b>\$ 4,800</b>	<b>\$ 130,680</b>	<b>\$ 8,500</b>	<b>\$ 91,920</b>	<b>\$ 10,580</b>	<b>\$ 333,040</b>	<b>\$ 7,700</b>			<b>CHECK</b>	<b>\$ 758,664</b>



## 08. Fee Proposal

Below we present Arcadis' proposed fee and a tabular breakdown of labor and expenses for the project.

**Fee Table**

Task	Hours	Hourly Rate	Labor	Subs	Expenses	Total Not-to-Exceed Fee
1 Design / Permitting (Mains and PRV Stations)	1360	\$ 126.54	\$172,090	\$12,595	\$ 192	\$184,877
2 Bid Services (Mains and PRV Stations)	67	\$ 146.18	\$ 9,794	\$ -	\$ 1,100	\$ 10,894
3a Construction Admin (Mains and PRV)	374	\$ 130.38	\$ 48,763	\$ -	\$ 2,400	\$ 51,163
3b Construction Admin (Tanks)	2438	\$ 144.23	\$351,628	\$ -	\$ 24,960	\$376,588
4 Operations Support	218	\$ 152.25	\$ 33,190	\$ -	\$ 288	\$ 33,478
<b>TOTAL</b>	<b>4457</b>	<b>\$ 138.09</b>	<b>\$615,465</b>	<b>\$12,595</b>	<b>\$ 28,940</b>	<b>\$657,000</b>

Note: A general allowance of \$80,000 and soil borings/geotechnical allowance of \$30,000 will also be included upon execution of the contract.

**Labor Table**

Task	Principal-in-Charge	Principal Engineer II	Principal Engineer I	Senior Engineer/Scientist II	Senior Engineer/Scientist I	Project Engineer/Scientist	Staff Engineer	Design Tech II	TOTAL
1 Design / Permitting (Mains and PRV Stations)	12	0	229	49	602	0	0	468	<b>1360</b>
2 Bid Services (Mains and PRV Stations)	0	0	6	17	44	0	0	0	<b>67</b>
3a Construction Admin (Mains and PRV)	0	0	28	56	62	0	228	0	<b>374</b>
3b Construction Admin (Tanks)	8	0	96	2260	74	0	0	0	<b>2438</b>
4 Operations Support	0	0	17	93	108	0	0	0	<b>218</b>
<b>TOTAL</b>	<b>20</b>	<b>0</b>	<b>376</b>	<b>2475</b>	<b>890</b>	<b>0</b>	<b>228</b>	<b>468</b>	<b>4457</b>

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Trenton Water Works - Design, Bidding & Construction Phase Services -  
 Phase 1 Off-Site Water Distribution System Improvements & Construction  
 Phase Engineering for Installation of Storage Tank at 942 Prospect Street

	Planned Hours	Billing Rates	Planned Bill
<b>Total Project Summary:</b>			
Project 1 - Installation of Storage Tanks at 942 Prospect	1,876.00	\$238,700.00	
Project 2A - Water Distribution Improvements at Pennington Reservoir	1,693.00	\$214,090.00	
Project 2B - Pressure Relief Structures	1,678.00	\$210,395.00	
Mileage - Total Project		\$13,000.00	
Allowance - Unforeseen Conditions		\$80,000.00	
Allowance - Geotechnical		\$30,000.00	
<b>Total for Trenton City Water Works - Phase 1 Offsite Water Distribution Improvements &amp; Construction Phase for Installation of Prospect Street Tanks</b>	<b>5,247.00</b>	<b>\$786,185.00</b>	
<b>Project 1 - Installation of Storage Tanks at 942 Prospect Street</b>			
Cuthbert, Stephanie - Project Manager	12.00	\$175.00	\$2,100.00
Marques, Timothy - Senior Engineering Technician	32.00	\$120.00	\$3,840.00
Mingle, Joseph - Design Engineer	32.00	\$130.00	\$4,160.00
Parent, Gabriel - Inspector	600.00	\$127.00	\$76,200.00
Stathakopoulos, Chris - Inspector	900.00	\$127.00	\$114,300.00
Gezzi, Robert - Inspector	300.00	\$127.00	\$38,100.00
<b>Total for Project 1 - Installation of Storage Tanks at 942 Prospect Street</b>	<b>1,876.00</b>		<b>\$238,700.00</b>
<b>Project 2A - Water Distribution System Improvements at Pennington Reservoir</b>			
<b>Data Collection &amp; Document Review</b>			
Cuthbert, Stephanie - Project Manager	1.00	\$175.00	\$175.00
Hankins, James - Senior Design Engineer	20.00	\$155.00	\$3,100.00
Hubal, Mark - Senior Design Engineer	5.00	\$155.00	\$775.00
Marques, Timothy - Senior Engineer Technician	24.00	\$120.00	\$2,880.00
<b>Total for Data Collection &amp; Document Review</b>	<b>50.00</b>		<b>\$6,930.00</b>
<b>Design Memorandum</b>			
Cuthbert, Stephanie - Project Manager	2.00	\$175.00	\$350.00
Hankins, James - Senior Design Engineer	40.00	\$155.00	\$6,200.00
Hubal, Mark - Senior Design Engineer	4.00	\$155.00	\$620.00
Marques, Timothy - Senior Engineer Technician	40.00	\$120.00	\$4,800.00
Yoder, Dennis - QAQC	1.00	\$175.00	\$175.00
<b>Total for Design Memorandum</b>	<b>87.00</b>		<b>\$12,145.00</b>
<b>Survey</b>			
Adamson, Charles - Survey QAQC	3.00	\$140.00	\$420.00
Kordes Jr., Mark - Rodperson	68.00	\$95.00	\$6,460.00
Kordes, Mark - Party Chief	68.00	\$100.00	\$6,800.00
Savage, James - Draftsperson	78.00	\$120.00	\$9,360.00
Taylor, Brian - Survey PM	12.00	\$135.00	\$1,620.00
Yorkiewicz, Brian - Survey Manager	5.00	\$135.00	\$675.00
<b>Total for Survey</b>	<b>234.00</b>		<b>\$25,335.00</b>
<b>Plans &amp; Specifications</b>			
Cuthbert, Stephanie - Project Manager	10.00	\$175.00	\$1,750.00
Gomes, John - Senior Draftsperson	140.00	\$120.00	\$16,800.00
Hankins, James - Senior Design Engineer	120.00	\$155.00	\$18,600.00
Hubal, Mark - Senior Design Engineer	38.00	\$155.00	\$5,890.00

Marques, Timothy - Senior Engineer Technician	230.00	\$120.00	\$27,600.00
Meyer, Carl - Technical Aide Reproduction	4.00	\$95.00	\$380.00
Rodgers, Gail - Technical Aide	16.00	\$65.00	\$1,040.00
Yoder, Dennis - QAQC	2.00	\$175.00	\$350.00
<b>Total for Plans &amp; Specifications</b>	<b>560.00</b>		<b>\$72,410.00</b>
<b>Permitting</b>			
Cuthbert, Stephanie - Project Manager	2.00	\$175.00	\$350.00
DiBerardino, Kathryn - Permitting	64.00	\$95.00	\$6,080.00
Hankins, James - Senior Design Engineer	16.00	\$155.00	\$2,480.00
<b>Total for Permitting</b>	<b>82.00</b>		<b>\$8,910.00</b>
<b>NJ I Bank Support</b>			
Kelley, Paul - Ibank Specialist	52.00	\$155.00	\$8,060.00
<b>Total for NJ I Bank Support</b>	<b>52.00</b>		<b>\$8,060.00</b>
<b>Design Phase Meetings</b>			
Cuthbert, Stephanie - Project Manager	16.00	\$175.00	\$2,800.00
Hankins, James - Senior Design Engineer	16.00	\$155.00	\$2,480.00
Marques, Timothy - Senior Engineer Technician	16.00	\$120.00	\$1,920.00
<b>Total for Design Phase Meetings</b>	<b>48.00</b>		<b>\$7,200.00</b>
<b>Bid Phase Services</b>			
Cuthbert, Stephanie - Project Manager	4.00	\$175.00	\$700.00
Hankins, James - Senior Design Engineer	16.00	\$155.00	\$2,480.00
Marques, Timothy - Senior Engineer Technician	24.00	\$120.00	\$2,880.00
Meyer, Carl - Technical Aide Reproduction	4.00	\$95.00	\$380.00
Rodgers, Gail - Technical Aide	12.00	\$65.00	\$780.00
<b>Total for Bid Phase Services</b>	<b>60.00</b>		<b>\$7,220.00</b>
<b>Construction Phase Engineering &amp; Inspection Services</b>			
Cuthbert, Stephanie - Project Manager	8.00	\$175.00	\$1,400.00
Hankins, James - Senior Design Engineer	40.00	\$155.00	\$6,200.00
Marques, Timothy - Senior Engineer Technician	48.00	\$120.00	\$5,760.00
Ott, Elisa - Contract Admin	20.00	\$110.00	\$2,200.00
Parent, Gabriel or Gezzi, Robert	360.00	\$127.00	\$45,720.00
Valentine, Ronald - Contract Admin	20.00	\$110.00	\$2,200.00
<b>Total for Construction Phase Engineering &amp; Inspection Services</b>	<b>496.00</b>		<b>\$63,480.00</b>
<b>Operational Materials &amp; Support</b>			
Cantwell, Joseph - Licensed Operator	24.00	\$100.00	\$2,400.00
<b>Total for Project 2A - Water Distribution Improvements at Pennington Reservoir</b>	<b>1,693.00</b>		<b>\$214,090.00</b>
<b>Project 2B - Pressure Reducing Valve Stations</b>			
<b>Data Collection &amp; Document Review</b>			
Arnobit, Judy Leigh - Senior Design Engineer	24.00	\$155.00	\$3,720.00
Cuthbert, Stephanie - Project Manager	2.00	\$175.00	\$350.00
Kramer, Kristin	38.00	\$120.00	\$4,560.00
Mingle, Joseph - Design Engineer	8.00	\$130.00	\$1,040.00
<b>Total for Data Collection &amp; Document Review</b>	<b>72.00</b>		<b>\$9,670.00</b>
<b>Design Memorandum</b>			
Arnobit, Judy Leigh - Senior Design Engineer	24.00	\$155.00	\$3,720.00
Cuthbert, Stephanie - Project Manager	4.00	\$175.00	\$700.00
Kramer, Kristin - Senior Engineering Technician	48.00	\$120.00	\$5,760.00
Meyer, Carl - Technical Aide Repo	1.00	\$95.00	\$95.00
Mingle, Joseph - Design Engineer	16.00	\$130.00	\$2,080.00
Rodgers, Gail - Technical Aide	2.00	\$65.00	\$130.00
Yoder, Dennis - QAQC	1.00	\$175.00	\$175.00
<b>Total for Design Memorandum</b>	<b>96.00</b>		<b>\$12,660.00</b>
<b>Survey</b>			
Adamson, Charles - Survey QAQC	9.00	\$140.00	\$1,260.00
Kordes Jr., Mark - Rodperson	72.00	\$95.00	\$6,840.00
Kordes, Mark - Party Chief	72.00	\$100.00	\$7,200.00
Savage, James - Draftsperson	78.00	\$120.00	\$9,360.00

Taylor, Brian - Survey PM	16.00	\$135.00	\$2,160.00
Yorkiewicz, Brian - Survey Manager	9.00	\$135.00	\$1,215.00
<b>Total for Survey</b>	<b>256.00</b>		<b>\$28,035.00</b>
<b>Plans &amp; Specifications</b>			
Arnobit, Judy Leigh - Senior Design Engineer	88.00	\$155.00	\$13,640.00
Cuthbert, Stephanie - Project Manager	10.00	\$175.00	\$1,750.00
Gomes, John - Senior Draftsperson	100.00	\$120.00	\$12,000.00
Kramer, Kristin - Senior Engineering Technician	240.00	\$120.00	\$28,800.00
Mingle, Joseph - Design Engineer	48.00	\$130.00	\$6,240.00
Yoder, Dennis - QAQC	2.00	\$175.00	\$350.00
<b>Total for Plans &amp; Specifications</b>	<b>488.00</b>		<b>\$62,780.00</b>
<b>Permitting</b>			
Arnobit, Judy Leigh - Senior Design Engineer	8.00	\$155.00	\$1,240.00
Cuthbert, Stephanie - Project Manager	2.00	\$175.00	\$350.00
DiBerardino, Kathryn - Permitting	48.00	\$95.00	\$4,560.00
<b>Total for Permitting</b>	<b>58.00</b>		<b>\$6,150.00</b>
<b>NJ IBank Support</b>			
Kelley, Paul - ibank Specialist	48.00	\$155.00	\$7,440.00
<b>Total for NJ IBank Support</b>	<b>48.00</b>		<b>\$7,440.00</b>
<b>Design Phase Meetings</b>			
Cuthbert, Stephanie - Project Manager	12.00	\$175.00	\$2,100.00
Kramer, Kristin - Senior Engineering Technician	12.00	\$120.00	\$1,440.00
Mingle, Joseph - Design Engineer	12.00	\$130.00	\$1,560.00
<b>Total for Design Phase Meetings</b>	<b>36.00</b>		<b>\$5,100.00</b>
<b>Bid Phase Services</b>			
Arnobit, Judy Leigh - Senior Design Engineer	12.00	\$155.00	\$1,860.00
Cuthbert, Stephanie - Project Manager	2.00	\$175.00	\$350.00
Kramer, Kristin - Senior Engineering Technician	16.00	\$120.00	\$1,920.00
Meyer, Carl - Technical Aide Repo	3.00	\$95.00	\$285.00
Rodgers, Gail - Technical Aide	8.00	\$65.00	\$520.00
<b>Total for Bid Phase Services</b>	<b>41.00</b>		<b>\$4,935.00</b>
<b>Construction Phase Engineering &amp; Inspection Services</b>			
Arnobit, Judy Leigh	24.00	\$155.00	\$3,720.00
Cuthbert, Stephanie - Project Manager	8.00	\$175.00	\$1,400.00
Kramer, Kristin - Senior Engineering Technician	40.00	\$120.00	\$4,800.00
Ott, Elisa - Contract Admin	16.00	\$110.00	\$1,760.00
Parent, Gabriel - Inspector	455.00	\$127.00	\$57,785.00
Valentine, Ronald - Contract Admin	16.00	\$110.00	\$1,760.00
<b>Total for Construction Phase Engineering &amp; Inspection Services</b>	<b>559.00</b>		<b>\$71,225.00</b>
<b>Operational Materials &amp; Support</b>			
Manganaro, John B - Licensed Operator	24.00		\$2,400.00
<b>Total for Project 2B - Pressure Reducing Valve Stations</b>	<b>1,678.00</b>		<b>\$210,395.00</b>

<b>Allowance 1 -Unforeseen Conditions</b>		
Allowance - if & where directed		\$80,000.00
<b>Total for Allowance 1 - Unforeseen Conditions</b>		<b>\$80,000.00</b>
<b>Allowance 2 - Geotechnical / Soil Borings</b>		
Allowance - if & where directed		\$30,000.00
<b>Total for Allowance 2 - Geotechnical / Soil Borings</b>		<b>\$30,000.00</b>

## 8. Fee proposal

This section provides a summary of our engineering fee proposal and man hour breakdown summary for each project task. As outlined in the RFP, all fees will be Reimbursable Not-To-Exceed.

Task 1A – Pennington Transmission Main Design and Permitting.....	\$118,941.58
Task 1B – PRV Vault Design and Permitting.....	\$117,192.91
Task 2A – Pennington Transmission Main Bidding.....	\$8,151.89
Task 2B – PRV Vault Bidding.....	\$7,779.85
Task 3A – 923 Prospect Street Tank Construction Phase Engineering .....	\$95,387.48
Task 3B – Transmission Main Construction Phase Engineering .....	\$66,784.60
Task 3C – PRV Vault Construction Phase Engineering .....	\$106,027.07
Task 3D – 923 Prospect Street Tank and Transmission Main RPR.....	\$198,504.00
Task 3E – PRV Vault RPR.....	\$98,990.56
Task 3F – Allowance.....	\$80,000.00
Task 4 – Operational Materials and Support.....	\$13,097.42
Task 5 – Geotechnical Allowance.....	\$30,000.00
<b>Total Base Bid .....</b>	<b>\$940,857.36</b>

As requested, we are including the allowances for geotechnical work and the general allowance requested under the construction phase. We have assumed 1800 hours of resident project representation for the 923 Prospect Street Tank construction, and 800 hours of separate resident project representation for the Transmission Main and PRV vault construction. Please note that since these services are reimbursable not to exceed, there will be some variance in the costs proposed for these items based upon the number of hours proposed.

We are proposing separate PRV and Transmission Main design, bid and construction tasks so as to remove the PRV vaults, which are not part of the ACO from the critical path of the project. The minor additional costs of separate packages are more than offset by the reduced risk of PRV vault permitting and construction issues impacting the Transmission main construction, which is essential for ACO compliance.

A breakdown of each task by hours and labor categories is attached.

We would be willing to discuss with TWW the concept of separating the tank construction administration and storage tank resident project representative work from the transmission main and PRV vault design, permitting, and bidding phases, if TWW feels that it would be more advantageous to spread the work around multiple contracts.

(4)

## Summary of tasks

Discipline Title/Grade: Name:	QA Principal Mount	QA Principal Stanley	QA PMSr. M Claire K	CM	Civil/Process PM M. Altland	Civil Process PM J. Marie	Civil/Process Eng II Lutz	Civil/Process Eng IV R. Reyes	Civil Process Eng III Youssef	Mechanical Sr. Mech LaPilusa	Mechanical Proj Eng Wang	Mechanical Eng III Lopez	Electrical Principal PM F. Mescal	Electrical Eng IV S. Lubin	Electrical Designer IV R. Partykevych	Structural PM Nieto	Structural Principal Heacock	Structural Eng III L. Sison	Structural Tech C. Thompson	Enviro Principal E. Moore	Enviro scientist C. Morissette	ICA Principal Eng T. Kuhn	ICA Sr. Proj Man D. Hinds	ICA Engineer I J. Hussain	Survey Principal W. DiBartolo	Survey Surveyor IV R. Andrews	Survey Specialist II A. Rinaldi	Total Hours	Labor Fee	Direct Costs	Total Fee	
Task 1A - Pennington Transmission Design and Permitting	10	6	0	67	140	0	485	53	0	0	0	0	0	0	0	6	3	0	48	2	8	0	0	0	0	4	24	4	860	\$ 117,441.58	\$ 1,500.00	\$ 118,941.58
Task 1 B PRV Vaults Design and Permitting	18	2	0	50	88	0	253	28	6	0	8	8	42	42	12	2	28	36	4	16	8	28	48	16	48	4	795	\$ 115,692.91	\$ 1,500.00	\$ 117,192.91		
Task 2A Transmission Main Bidding	3	0	0	4	10	0	17	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	\$ 6,651.89	\$ 1,500.00	\$ 8,151.89		
Task 2 B Valve Vault Bidding	2	0	0	5	8	0	17	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	\$ 6,279.85	\$ 1,500.00	\$ 7,779.85		
Task 3A Water Storage Tank Construction Phase	10	10	148	20	0	0	280	0	0	0	0	0	0	0	0	8	0	64	0	0	0	0	0	0	0	0	6	546	\$ 90,387.48	\$ 5,000.00	\$ 95,387.48	
Task 3B Transmission Main Construction Phase	22	6	24	22	106	0	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	390	\$ 64,384.60	\$ 2,400.00	\$ 66,784.60		
Task 3C Valve Vault Construction	26	9	9	35	92	162	0	0	1	6	12	6	96	0	8	1	44	0	0	0	0	0	24	96	0	0	6	633	\$ 103,627.07	\$ 2,400.00	\$ 105,027.07	
Task 3D Tank and Transmission Main RPR	0	0	0	0	0	1,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,800	\$ 189,504.00	\$ 9,000.00	\$ 198,504.00			
Task 3E Vault RPR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	806	\$ 94,590.56	\$ 4,400.00	\$ 98,990.56		
Task 3F Allowance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ 80,000.00	\$ 80,000.00		
Task 4 Operational Materials and Support	0	6	0	7	0	0	0	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	\$ 12,997.42	\$ 100.00	\$ 13,097.42		
Task 5 - Geotechnical Allowance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ 30,000.00	\$ 30,000.00		
<b>Total Hours:</b>	<b>91</b>	<b>39</b>	<b>181</b>	<b>210</b>	<b>444</b>	<b>1,962</b>	<b>1,256</b>	<b>973</b>	<b>7</b>	<b>6</b>	<b>20</b>	<b>14</b>	<b>138</b>	<b>42</b>	<b>34</b>	<b>6</b>	<b>136</b>	<b>84</b>	<b>6</b>	<b>24</b>	<b>8</b>	<b>52</b>	<b>144</b>	<b>20</b>	<b>72</b>	<b>32</b>	<b>6,001</b>					
<b>Total Labor Fee:</b>	<b>\$ 30,459.41</b>	<b>\$ 12,299.98</b>	<b>\$ 40,639.93</b>	<b>\$ 61,439.94</b>	<b>\$ 74,449.68</b>	<b>\$ 206,559.36</b>	<b>\$ 139,397.98</b>	<b>\$ 109,591.77</b>	<b>\$ 2,014.36</b>	<b>\$ 1,141.80</b>	<b>\$ 2,577.24</b>	<b>\$ 4,173.70</b>	<b>\$ 22,110.66</b>	<b>\$ 3,972.78</b>	<b>\$ 9,612.54</b>	<b>\$ 2,135.67</b>	<b>\$ 18,705.72</b>	<b>\$ 13,315.20</b>	<b>\$ 1,224.48</b>	<b>\$ 2,607.60</b>	<b>\$ 2,147.20</b>	<b>\$ 11,458.64</b>	<b>\$ 15,140.64</b>	<b>\$ 3,251.80</b>	<b>\$ 8,248.32</b>	<b>\$ 2,880.96</b>		<b>\$ 801,557.36</b>	<b>\$ 139,300.00</b>	<b>\$ 940,857.36</b>		

## ENVIRONMENTAL RESOLUTIONS, INC.

CC2021-04

5

DESIGN, BIDDING & CONSTRUCTION PHASE ENGINEERING SERVICES FOR PHASE 1 OFF-SITE WATER DISTRIBUTION SYSTEM IMPROVEMENTS AND CONSTRUCTION PHASE ENGINEERING FOR THE  
 INSTALLATION OF STORAGE TANKS AT 942 PROSPECT STREET  
 CITY OF TRENTON, NJ

	Principal Officer	Project Engineers	Engineering Assistants	Inspectors	Total Hours for Task	Total \$/Task
<b>PROJECT 1.: INSTALLATION OF STORAGE TANKS AT 942 PROSPECT STREET</b>	Chris Noll, PE, CME, PP	Jennifer Harris, PE Karen Hermack, PE	William Guida, EIT Katherine Villacis, EIT Christa Ouellette, EIT	John Potts, NICET III John Scott, NICET III Andrew Pisarcik		
	\$170.00	\$145.00	\$90.00	\$100.00		
Loan Administration/Management	203	406	203	0	812	\$ 111,650.00
Progress Reporting	41	487	0	82	610	\$ 85,785.00
Meetings & Site Visits	84	186	94	92	456	\$ 58,910.00
Project Oversight	401	2810	1186	300	4697	\$ 612,360.00
Construction Inspection Tasks	0	0	0	3488	3488	\$ 348,800.00
<b>TOTAL HOURS FOR LABOR</b>	<b>729</b>	<b>3889</b>	<b>1483</b>	<b>3962</b>	<b>10063</b>	
<b>TOTAL LABOR COSTS PROJECT #1</b>	<b>\$123,930.00</b>	<b>\$563,905.00</b>	<b>\$133,470.00</b>	<b>\$396,200.00</b>		<b>\$1,217,505.00</b>

SUMMARY	
Mileage	\$1,000.00
Total Labor Costs from Above	\$1,217,505.00
<b>TOTAL PROJECT COST FOR PROJECT 1:</b>	<b>\$ 1,218,505.00</b>

\* Fees as shown represent number of man hours required for construction based on 405 calendar days for construction completion plus 60 days for project closeout activities.

# Fee Proposal



Our fee for the work as defined in the RFP and as clarified by our approach and scope is **\$1,682,175**. This includes a \$30,000 allowance under Task 1 for soil borings/geotechnical investigative work as noted in Addendum No. 1 and an \$80,000 under Task 3 as noted in the RFP for unforeseen and miscellaneous services as requested by TWW that are outside of the tasks listed in the RFP and this proposal.

Task	Description	Year 1 Rate				Sr. Project Manager	Project Manager	Senior Technologist	Senior Engineer	Project Engineer	Engineer	Irr. Engineer	CADD Technician	Sr. Resident Engineer	Resident Engineer		
		Hours	Labor Costs	Expenses	Total Costs												
1	Design/Permitting Services - Off-Site Water Distribution	1,170	\$ 159,600	\$ 70,500	\$ 230,100	60	180		20	300		610					
2	Bid Services - Off-Site Water Distribution	78	\$ 11,770	\$ 2,500	\$ 14,270	2	16		8	30		22					
3a	Construction Phase Engineering Services - Off-Site Water Distribution	2,854	\$ 426,595	\$ 3,000	\$ 429,595		709		181		40	411	168	657	688		
3b	Construction Phase Engineering Services - Water Storage Tank	5,398	\$ 860,630	\$ 87,000	\$ 947,630	557		126	959	74	188	747	246	2,501			
4	TWW Operational Materials and Support	380	\$ 60,080	\$ 500	\$ 60,580	38			342								
<b>Totals</b>		<b>9,880</b>	<b>\$ 1,518,675</b>	<b>\$ 163,500</b>	<b>\$ 1,682,175</b>	<b>657</b>	<b>905</b>	<b>126</b>	<b>1,168</b>	<b>746</b>	<b>228</b>	<b>1,790</b>	<b>414</b>	<b>3158</b>	<b>688</b>		

\*Rates are based on a labor rate by labor category. They escalate by 3% on January 1, 2023.

\*\*Expenses include a \$30,000 allowance in Task 1 as per Addendum No. 1 and an \$80,000 allowance in Task 3 as per the RFP.

