

ADDENDUM No. 1
to the **CONTRACT DOCUMENTS**
for the
2024 ANNUAL TERM CONTRACT FOR
WATER AND SEWER CONSTRUCTION SERVICES

DATED: December 5, 2023

A. GENERAL

1. All information contained in this addendum shall now be considered an integral part of the contract documents.
2. Any bid form (Section 00 41 00) that is submitted must acknowledge the receipt of this addendum by date and number. Failure to do so may subject the bidder to disqualification
3. This, and all future addendums, are available for download on the BRWA's website under <http://www.brwa.com/developmentandcapitalprojects/SitePages/Projects%20for%20Bid.aspx>

B. MINUTES TO THE PREBID CONFERENCE

1. No pre-bid conference was held. Answers to questions to the contract are included in this Addendum.

C. QUESTIONS/ COMMENTS:

1. Question: *Can Bedford County provide a list of projects currently in the que for construction on the 2024 Annual Term Contract, including estimated cost for these projects?*

Response: Refer to Exhibit A – Pages 9-10 of our Capital Improvement Program Plan showing the Capital Improvements Program Projects Listing FY23-26.

2. Question: *Bid Bond, Performance, and Payment and Labor bonds are required for this project, correct?*

Response: The Bid Bond is required but will be retained until the Bidder has executed the Contract Documents, at which time it will be returned. The contract language is hereby changed to reflect that a Performance Bond will not be required on projects less than \$75,000.00 and may be required on projects with construction costs totaling over said amount.

3. Question: *Does the contractor need to bid on all the items, or can the bid be for just the items they are interested in?*

Response: Per Section 00 21 13, 1.17 Award of Contract, at a minimum Section I and Section II must be completed in order to award to the low bidder(s) of the sum of these two Sections. All items in Section I and II must be included in the bid.

4. Question: *Does this contract require contractor to be available to do projects immediately or they can be scheduled in a timely manner?*

Response: Projects are typically scheduled in a timely manner, however, we may have emergency work that requires immediate response but usually are projects short in duration, such as a point repair.

5. Question: *Is this a requirement for a full-time crew or will contractor be part time as needed?*

Response: Contractor usually assigns a crew on a project by project basis in order to complete the project in a timely manner. It is not anticipated that a crew would be needed full-time, and rare that work may be simultaneous to require the availability of additional crews. However, if additional crews and projects are available, the contractor may coordinate with the BRWA to perform multiple projects at once provided adequate funding is available.

6. Question: *Do you have any data on how much work was done on previous contract (i.e. footage size and quantity, total contract cost in a year)?*

Response: The projects completed under the previous contract were the following:

- North Parking Lot Expansion Project (major grading, storm sewer, and parking lot installation) – total Construction Cost after CO's: \$698,399.90
 - Route 122 Waterline Relocation due to waterline break – total Construction Cost: \$482,957. 568 LF of 18-inch waterline installed by traditional dig method with an additional 400 LF of 18-inch waterline installed by horizontal direction drilling.
7. Question: *Can information be provided stating how much of the construction contract was actually paid out each year for the past 3 years along with the bid results for the same?*

Response: Refer to Exhibit B – 2020-025 Bid Tabulation.

END OF DOCUMENT - ADDENDUM No. 1

Capital Improvement Program Projects Listing FY24-26



Projects by Service Area	Fiscal Year Ending:		
	2024	2025	2026
Central	\$ 245,000.00	\$ 124,000.00	\$ 1,145,000.00
Operational Needs	\$ 245,000.00	\$ 124,000.00	\$ 895,000.00
Stoney Creek Reservoir - Ph 2.B (Cleaning/Design)		\$ 124,000.00	
Stoney Creek Reservoir - Ph 3 (Rehab Construction)			\$ 845,000.00
Sewer Flow Meter - Bedford Weaving	\$ 25,000.00		
Central Pump Station 1 - Replacement Pumps/Motors	\$ 110,000.00		
Central Pump Station 2 - Replacement Pumps/Motors	\$ 110,000.00		
Central Pump Station 10 - Replacement Pump #1			\$ 50,000.00
System Structures & Tanks			\$ 250,000.00
Helm Street Tank Replacement			\$ 250,000.00
Central WTP	\$ 95,000.00	\$ 45,000.00	\$ 104,000.00
Operational Needs	\$ 95,000.00	\$ 45,000.00	\$ 104,000.00
Security Alarms and Fire Alarm System			\$ 29,000.00
Central WTP Filter Control SCADA Interface			\$ 75,000.00
Re-piping Domestic Pump to Hydropneumatic Tank	\$ 40,000.00		
Upgrade drainage system from holding ponds to VPDES outfall		\$ 45,000.00	
Hoist system for moving pumps - Currently out of service	\$ 55,000.00		
Central WWTP		\$ 47,000.00	\$ 115,000.00
Operational Needs		\$ 47,000.00	\$ 115,000.00
Central WWTP - New RAS Pump #2			\$ 55,000.00
Central WWTP - Replace railings and chains on primary basin #2		\$ 20,000.00	
Central WWTP - Replace the air actuator valves to electric valves on sandfilters			\$ 60,000.00
Central WWTP - Replace transfer switch in belt press building		\$ 27,000.00	
Forest		\$ 45,000.00	\$ 120,000.00
Operational Needs		\$ 45,000.00	\$ 120,000.00
Lynchburg Entry Point Control Valve (Graves Mill Rd)			\$ 120,000.00
Big Ben Actuator Gate Valve		\$ 45,000.00	
Moneta WWTP		\$ 30,000.00	
Operational Needs		\$ 30,000.00	
Moneta WWTP - New chains on Train 2 BLOWHEELS		\$ 20,000.00	
Moneta WWTP - Replace magnetic ballasts & wiring harness		\$ 10,000.00	

2023-072 - Exhibit A

Capital Improvement Program Projects Listing FY24-26



Projects by Service Area	Fiscal Year Ending:		
	2024	2025	2026
Office	\$ 120,000.00		\$ 125,000.00
Office Improvements	\$ 120,000.00		\$ 125,000.00
Bulletproof Glass & Front Desk modifications	\$ 120,000.00		
Annex Building Renovations			\$ 125,000.00
Purchases	\$ 46,000.00	\$ 264,000.00	
Customer Service		\$ 55,000.00	
Operations/Billing/Cartegraph Web Application		\$ 55,000.00	
Maintenance		\$ 163,000.00	
New Resource Durango		\$ 45,000.00	
New Resource Ram 1500		\$ 47,000.00	
4 - 12 Inch Hot Tap Machine / Mueller		\$ 32,000.00	
2DH-2 Concrete Mixer 2 Cubic Yards		\$ 39,000.00	
Personnel	\$ 46,000.00	\$ 46,000.00	
Vehicle for Construction Manager		\$ 46,000.00	
Maintenance Coordinator Ram 1500	\$ 46,000.00		
SCADA		\$ 36,000.00	
Operational Needs		\$ 36,000.00	
SCADA Hatch Intrusion Switches for Water Tanks		\$ 36,000.00	
SML	\$ 200,000.00		\$ 15,000.00
SML WTF (shared portion)	\$ 200,000.00		\$ 15,000.00
SML Tank - Standby generator			\$ 15,000.00
GAC Heated Building	\$ 200,000.00		
Mariners			\$ 68,000.00
Operational Needs			\$ 68,000.00
Mariners - Lake Retreat PRV Replacement			\$ 68,000.00
Paradise Point			\$ 10,000.00
Operational Needs			\$ 10,000.00
Paradise Point Electrical upgrade			\$ 10,000.00
Mariners WWTP			\$ 20,000.00
Operational Needs			\$ 20,000.00
Mariners WWTP - Recoat train 1 & 2 influent basins			\$ 20,000.00
Grand Total	\$ 706,000.00	\$ 591,000.00	\$ 1,722,000.00

Construction Annual Term Contract

Print Date: 11/20/2023

Bid Tabulation
December 02, 2020

2023-072 - Exhibit B

				J & M Infrastructure		Aaron J. Conner	
Item	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price
Section I, Division A Sanitary Sewer Line Construction							
IA - 1	4" PVC Sewer pipe (SDR 35)	500	L.F.	\$ 50.00	\$25,000.00	\$ 101.00	\$50,500.00
	6" PVC Sewer pipe (SDR 35)	500	L.F.	\$ 100.00	\$50,000.00	\$ 102.00	\$51,000.00
	8" PVC Sewer pipe (SDR 35)	1,000	L.F.	\$ 100.00	\$100,000.00	\$ 105.00	\$105,000.00
	10" PVC Sewer pipe (SDR 35)	100	L.F.	\$ 29.75	\$2,974.91	\$ 108.00	\$10,800.00
	12" PVC Sewer pipe (SDR 35)	100	L.F.	\$ 38.05	\$3,805.25	\$ 112.00	\$11,200.00
	16" PVC Sewer pipe (SDR 35)	100	L.F.	\$ 51.77	\$5,177.14	\$ 118.00	\$11,800.00
	18" PVC Sewer pipe (SDR 35)	100	L.F.	\$ 72.53	\$7,253.44	\$ 126.00	\$12,600.00
	4" PVC Sewer pipe (SDR 26)	100	L.F.	\$ 25.00	\$2,500.00	\$ 101.00	\$10,100.00
	6" PVC Sewer pipe (SDR 26)	100	L.F.	\$ 19.70	\$1,969.52	\$ 103.00	\$10,300.00
	8" PVC Sewer pipe (SDR 26)	2,000	L.F.	\$ 45.00	\$90,000.00	\$ 107.00	\$214,000.00
	10" PVC Sewer pipe (SDR 26)	100	L.F.	\$ 32.58	\$3,258.10	\$ 111.00	\$11,100.00
	12" PVC Sewer pipe (SDR 26)	100	L.F.	\$ 42.03	\$4,202.58	\$ 116.00	\$11,600.00
	16" PVC Sewer pipe (SDR 26)	100	L.F.	\$ 58.16	\$5,815.68	\$ 124.00	\$12,400.00
	18" PVC Sewer pipe (SDR 26)	100	L.F.	\$ 82.15	\$8,215.35	\$ 135.00	\$13,500.00
	6" D.I. Sewer pipe (Protecto 401 lining)	100	L.F.	\$ 100.00	\$10,000.00	\$ 135.00	\$13,500.00
	8" D.I. Sewer pipe (Protecto 401 lining)	500	L.F.	\$ 150.00	\$75,000.00	\$ 147.00	\$73,500.00
	10" D.I. Sewer pipe (Protecto 401 lining)	200	L.F.	\$ 91.13	\$18,226.17	\$ 154.00	\$30,800.00
	12" D.I. Sewer pipe (Protecto 401 lining)	100	L.F.	\$ 111.47	\$11,147.46	\$ 170.00	\$17,000.00
	16" D.I. Sewer pipe (Protecto 401 lining)	50	L.F.	\$ 154.10	\$7,704.92	\$ 199.00	\$9,950.00
	18" D.I. Sewer pipe (Protecto 401 lining)	50	L.F.	\$ 183.51	\$9,175.57	\$ 219.00	\$10,950.00
IA - 2	Bored or jacked 4" PVC Sewer pipe (SDR 26)	100	L.F.	\$ 100.00	\$10,000.00	\$ 391.00	\$39,100.00
	Bored or jacked 6" PVC Sewer pipe (SDR 26)	50	L.F.	\$ 100.00	\$5,000.00	\$ 481.00	\$24,050.00
	Bored or jacked 8" PVC Sewer pipe (SDR 26)	200	L.F.	\$ 100.00	\$20,000.00	\$ 571.00	\$114,200.00
	Bored or jacked 8" DI Sewer pipe	200	L.F.	\$ 100.00	\$20,000.00	\$ 698.00	\$139,600.00
	Bored or jacked 12" DI Sewer pipe	50	L.F.	\$ 455.35	\$22,767.70	\$ 930.00	\$46,500.00
IA - 3	Concrete Manhole, 48" diameter	200	v.f.	\$ 407.37	\$81,474.58	\$ 1,022.00	\$204,400.00
	Concrete Manhole, 60" diameter	20	v.f.	\$ 580.62	\$11,612.36	\$ 1,757.00	\$35,140.00
	Concrete Manhole, 72" diameter	10	v.f.	\$ 782.97	\$7,829.73	\$ 2,150.00	\$21,500.00
	Concrete Manhole, 84" diameter	10	v.f.	\$ 1,211.88	\$12,118.82	\$ 2,913.00	\$29,130.00
IA - 4	Interior Drop Connection (MH-6)	2	ea.	\$ 1,540.67	\$3,081.34	\$ 5,334.00	\$10,668.00
IA - 5	Doghouse Manhole	20	v.f.	\$ 1,349.18	\$26,983.51	\$ 1,595.00	\$31,900.00
IA - 6	Precast concrete riser ring	5	v.f.	\$ 370.98	\$1,854.89	\$ 1,330.00	\$6,650.00
IA - 7	Manhole Frame and Cover, Standard (FC-1)	20	ea.	\$ 1,455.25	\$29,105.08	\$ 1,883.00	\$37,660.00
	Manhole Frame and Cover, Watertight (FC-2)	20	ea.	\$ 1,467.36	\$29,347.27	\$ 1,932.00	\$38,640.00
IA - 8	4" x 4" PVC Wye	5	ea.	\$ 123.19	\$615.94	\$ 390.00	\$1,950.00
	6" x 4" PVC Wye	5	ea.	\$ 142.80	\$714.01	\$ 408.00	\$2,040.00
	8" x 6" PVC Wye	5	ea.	\$ 214.95	\$1,074.77	\$ 452.00	\$2,260.00
	6" X 4" D.I. Wye (Protecto 401 lining)	2	ea.	\$ 502.72	\$1,005.43	\$ 872.00	\$1,744.00
	8" X 4" D.I. Wye (Protecto 401 lining)	10	ea.	\$ 883.36	\$8,833.55	\$ 1,210.00	\$12,100.00
	8" X 6" D.I. Wye (Protecto 401 lining)	5	ea.	\$ 763.47	\$3,817.36	\$ 1,300.00	\$6,500.00
	12" X 4" D.I. Wye (Protecto 401 lining)	2	ea.	\$ 1,735.51	\$3,471.01	\$ 2,070.00	\$4,140.00
	12" X 6" D.I. Wye (Protecto 401 lining)	10	ea.	\$ 1,795.45	\$17,954.47	\$ 2,100.00	\$21,000.00
IA - 9	4" PVC Cleanout assembly (CO-2)	15	ea.	\$ 468.27	\$7,024.04	\$ 4,638.00	\$69,570.00
	4" PVC Double cleanout assembly (CO-3)	5	ea.	\$ 518.92	\$2,594.60	\$ 4,842.00	\$24,210.00
	6" PVC Cleanout assembly (CO-2)	5	ea.	\$ 670.71	\$3,353.53	\$ 4,745.00	\$23,725.00
	8" PVC Terminal Cleanout assembly (CO-1)	5	ea.	\$ 862.29	\$4,311.45	\$ 4,765.00	\$23,825.00
IA - 10	4" PVC (Cleanout vertical pipe where > 6' depth)	50	L.F.	\$ 11.22	\$561.15	\$ 90.00	\$4,500.00
	6" PVC (Cleanout vertical pipe where > 6' depth)	50	L.F.	\$ 13.63	\$681.27	\$ 92.00	\$4,600.00
IA - 11	8" PVC vertical pipe for terminal cleanout (> 6' depth)	50	L.F.	\$ 18.82	\$940.89	\$ 148.00	\$7,400.00
IA - 12	Standard cleanout cover	10	ea.	\$ 150.17	\$1,501.66	\$ 947.00	\$9,470.00
	Traffic bearing cleanout cover	10	ea.	\$ 282.51	\$2,825.05	\$ 979.00	\$9,790.00
IA - 13	Service saddle on existing line (4" and 6" tap)	5	ea.	\$ 3,000.00	\$15,000.00	\$ 8,997.00	\$44,985.00
IA - 14	Machine Coring Manholes (Up to 12")	10	ea.	\$ 1,363.68	\$13,636.82	\$ 11,088.00	\$110,880.00
IA - 15	4-inch "Harco" type coupling	10	ea.	\$ 25.00	\$250.00	\$ 463.00	\$4,630.00
	6-inch "Harco" type coupling	10	ea.	\$ 50.00	\$500.00	\$ 479.00	\$4,790.00
	8-inch "Harco" type coupling	10	ea.	\$ 82.00	\$820.00	\$ 501.00	\$5,010.00
	10-inch "Harco" type coupling	10	ea.	\$ 182.00	\$1,820.00	\$ 566.00	\$5,660.00
	12-inch "Harco" type coupling	10	ea.	\$ 165.00	\$1,650.00	\$ 626.00	\$6,260.00
IA - 16	Frame-Chimney Seals	10	ea.	\$ 1,030.72	\$10,307.24	\$ 1,139.00	\$11,390.00
IA - 17	2" Sewer Air Release Valve (< 100 psi, AR-3)	5	ea.	\$ 3,251.62	\$16,258.12	\$ 4,347.00	\$21,735.00
	2" Sewer Air Release Valve (> 100 psi, AR-4)	5	ea.	\$ 1,946.04	\$9,730.22	\$ 4,347.00	\$21,735.00
IA - 18	1-1/4" Force Main Connection (GP-2)	5	ea.	\$ 977.64	\$4,888.18	\$ 5,218.00	\$26,090.00
	2" Force Main Connection (GP-2)	2	ea.	\$ 1,325.20	\$2,650.39	\$ 5,431.00	\$10,862.00
Section I, Division B Waterline Construction							
IB - 1	2" Water pipe (PVC)	300	L.F.	\$ 15.12	\$4,536.49	\$ 61.00	\$18,300.00
	3" Water pipe (PVC)	500	L.F.	\$ 18.41	\$9,203.66	\$ 63.00	\$31,500.00
	4" Water pipe (PVC)	2,700	L.F.	\$ 14.94	\$40,335.19	\$ 60.00	\$162,000.00
	6" Water pipe (PVC)	300	L.F.	\$ 21.80	\$6,540.75	\$ 64.00	\$19,200.00
	8" Water pipe (PVC)	3,000	L.F.	\$ 26.29	\$78,855.63	\$ 68.00	\$204,000.00
	10" Water pipe (PVC)	100	L.F.	\$ 32.80	\$3,279.66	\$ 74.00	\$7,400.00
	12" Water pipe (PVC)	100	L.F.	\$ 40.78	\$4,078.31	\$ 81.00	\$8,100.00
	2" Water pipe (DIP)	50	L.F.	\$ 41.89	\$2,094.41	\$ 109.00	\$5,450.00
	4" Water pipe (DIP)	50	L.F.	\$ 44.37	\$2,218.60	\$ 83.00	\$4,150.00
	6" Water pipe (DIP)	300	L.F.	\$ 38.70	\$11,610.13	\$ 77.00	\$23,100.00
	8" Water pipe (DIP)	200	L.F.	\$ 48.49	\$9,697.35	\$ 83.00	\$16,600.00
	10" Water pipe (DIP)	50	L.F.	\$ 60.10	\$3,004.95	\$ 88.00	\$4,400.00
	12" Water pipe (DIP)	50	L.F.	\$ 71.10	\$3,554.83	\$ 97.00	\$4,850.00
	4" Water pipe (R.J.)	50	L.F.	\$ 52.94	\$2,647.02	\$ 90.00	\$4,500.00
	6" Water pipe (R.J.)	50	L.F.	\$ 52.55	\$2,627.46	\$ 84.00	\$4,200.00
	8" Water pipe (R.J.)	50	L.F.	\$ 67.96	\$3,398.02	\$ 93.00	\$4,650.00
	10" Water pipe (R.J.)	50	L.F.	\$ 86.76	\$4,338.19	\$ 100.00	\$5,000.00
	12" Water pipe (R.J.)	50	L.F.	\$ 104.59	\$5,229.64	\$ 116.00	\$5,800.00
IB - 2	Paved Entrance Crossing (free bore; carrier pipe 6" or less)	140	L.F.	\$ 195.25	\$27,335.31	\$ 159.00	\$22,260.00
IB - 3	Fittings (Accessories included)	7,000	lbs.	\$ 3.54	\$24,752.24	\$ 51.00	\$357,000.00
IB - 4	2" valves & boxes	2	ea.	\$ 599.53	\$1,199.06	\$ 1,564.00	\$3,128.00
	3" valves & boxes	1	ea.	\$ 800.48	\$800.48	\$ 1,714.00	\$1,714.00
	4" valves & boxes	3	ea.	\$ 993.99	\$2,981.97	\$ 1,769.00	\$5,307.00

Construction Annual Term Contract

Print Date: 11/20/2023

Bid Tabulation
December 02, 2020

2023-072 - Exhibit B

				J & M Infrastructure		Aaron J. Conner	
Item	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price
	6" valves & boxes	10	ea.	\$ 1,211.52	\$12,115.21	\$ 1,915.00	\$19,150.00
	8" valves & boxes	10	ea.	\$ 1,697.70	\$16,976.99	\$ 2,313.00	\$23,130.00
	10" valves & boxes	2	ea.	\$ 2,640.04	\$5,280.08	\$ 2,911.00	\$5,822.00
	12" valves & boxes	2	ea.	\$ 3,504.43	\$7,008.86	\$ 3,353.00	\$6,706.00
	2" Insert Valve Installation	1	ea.	\$ 782.40	\$782.40	\$ 11,131.00	\$11,131.00
	4" Insert Valve Installation	2	ea.	\$ 2,656.59	\$5,313.17	\$ 16,685.00	\$33,370.00
	6" Insert Valve Installation	2	ea.	\$ 2,806.28	\$5,612.55	\$ 18,069.00	\$36,138.00
	8" Insert Valve Installation	2	ea.	\$ 3,402.07	\$6,804.13	\$ 20,046.00	\$40,092.00
	10" Insert Valve Installation	1	ea.	\$ 5,252.89	\$5,252.89	\$ 27,052.00	\$27,052.00
IB - 5	4" Wet tap	3	ea.	\$ 2,893.52	\$8,680.55	\$ 10,825.00	\$32,475.00
	6" Wet tap	5	ea.	\$ 3,582.12	\$17,910.61	\$ 11,182.00	\$55,910.00
	8" Wet tap	1	ea.	\$ 4,805.19	\$4,805.19	\$ 11,559.00	\$11,559.00
	10" Wet tap	1	ea.	\$ 6,528.84	\$6,528.84	\$ 11,915.00	\$11,915.00
	12" Wet tap	1	ea.	\$ 8,233.71	\$8,233.71	\$ 12,271.00	\$12,271.00
IB - 6	1" Water services (open cut)	1,500	l.f.	\$ 100.00	\$150,000.00	\$ 54.00	\$81,000.00
	2" Water services (open cut)	100	l.f.	\$ 100.00	\$10,000.00	\$ 55.00	\$5,500.00
IB - 7	1" Water services (by jacking or boring, casing separate)	100	l.f.	\$ 50.00	\$5,000.00	\$ 116.00	\$11,600.00
	2" Water services (by jacking or boring, casing separate)	25	l.f.	\$ 50.00	\$1,250.00	\$ 120.00	\$3,000.00
IB - 8	Tie rods (3/4")	500	l.f.	\$ 7.11	\$3,554.74	\$ 37.00	\$18,500.00
IB - 9	Mega- Lugs / mechanical restraints	500	lbs.	\$ 3.55	\$1,776.60	\$ 159.00	\$79,500.00
IB - 10	Fire hydrants (high & low pressure, 4' standard bury)	7	ea.	\$ 3,233.90	\$22,637.27	\$ 4,612.00	\$32,284.00
	Fire hydrant barrel extension for depths greater than 4' (high & low pressure)	10	v.f.	\$ 1,338.02	\$13,380.16	\$ 1,876.00	\$18,760.00
IB - 11	5/8"x3/4", 3/4" Meter Boxes and Meter Assemblies (new construction, SC-1)	20	ea.	\$ 1,000.00	\$20,000.00	\$ 2,747.00	\$54,940.00
	5/8"x3/4", 3/4" Meter Boxes and Double Meter Assemblies (new construction, SC-3)	30	ea.	\$ 1,000.00	\$30,000.00	\$ 3,030.00	\$90,900.00
	1" Meter Boxes and Meter Assemblies (new construction - SC-1)	2	ea.	\$ 1,097.70	\$2,195.41	\$ 2,950.00	\$5,900.00
	2" Meter Boxes and Meter Assemblies (new construction, M-1)	5	ea.	\$ 2,638.30	\$13,191.51	\$ 7,672.00	\$38,360.00
IB - 12	5/8"x3/4", 3/4" Meter Boxes and Meter Assemblies (replacement of existing connection, SC-1)	20	ea.	\$ 1,300.00	\$26,000.00	\$ 9,336.00	\$186,720.00
	5/8"x3/4", 3/4" Meter Boxes and Double Meter Assemblies (replacement of existing connection, SC-3)	30	ea.	\$ 1,004.72	\$30,141.67	\$ 9,629.00	\$288,870.00
	1" Meter Boxes and Meter Assemblies (replacement of existing connection - SC-1)	2	ea.	\$ 1,360.23	\$2,720.46	\$ 9,541.00	\$19,082.00
	2" Meter Boxes and Meter Assemblies (replacement of existing connection, M-1)	5	ea.	\$ 2,900.83	\$14,504.13	\$ 12,072.00	\$60,360.00
IB - 13	Comb. 1" Air Release Valve (AR-2)	5	ea.	\$ 1,036.19	\$5,180.93	\$ 4,959.00	\$24,795.00
	Comb. 2" Air Release Valve (AR-1)	5	ea.	\$ 2,010.19	\$10,050.93	\$ 7,179.00	\$35,895.00
IB - 14	2" Blow-off Valve (BC-1)	5	ea.	\$ 1,200.85	\$6,004.23	\$ 5,395.00	\$26,975.00
IB - 15	2" Tie-in	5	ea.	\$ 452.91	\$2,264.53	\$ 9,126.00	\$45,630.00
	4" Tie-in	2	ea.	\$ 654.08	\$1,308.15	\$ 9,228.00	\$18,456.00
	6" Tie-in	1	ea.	\$ 731.15	\$731.15	\$ 9,312.00	\$9,312.00
IB - 16	2" Waterline abandonment (cut and cap)	5	ea.	\$ 639.75	\$3,198.73	\$ 9,169.00	\$45,845.00
	4" Waterline abandonment (cut and cap)	2	ea.	\$ 683.68	\$1,367.36	\$ 9,256.00	\$18,512.00
	6" Waterline abandonment (cut and cap)	2	ea.	\$ 916.71	\$1,833.41	\$ 9,294.00	\$18,588.00
IB - 17	1" - 2" Water Service Tapping Saddle (Up to 6")	2	ea.	\$ 2,000.00	\$4,000.00	\$ 4,564.00	\$9,128.00
	1" - 2" Water Service Tapping Saddle (6" to 8")	2	ea.	\$ 2,000.00	\$4,000.00	\$ 4,557.00	\$9,114.00
	1" - 2" Water Service Tapping Saddle (8" to 12")	2	ea.	\$ 2,000.00	\$4,000.00	\$ 3,692.00	\$7,384.00
	Water Service Tapping Saddle (16")			\$ -	\$0.00	\$ -	\$0.00
	1" x 16"	5	ea.	\$ 526.10	\$2,630.48	\$ 3,724.00	\$18,620.00
	2" x 16"	1	ea.	\$ 2,000.00	\$2,000.00	\$ 3,744.00	\$3,744.00
	Water Service Tapping Saddle (18")			\$ -	\$0.00	\$ -	\$0.00
	1" x 18"	5	ea.	\$ 644.02	\$3,220.12	\$ 3,744.00	\$18,720.00
	2" x 18"	1	ea.	\$ 2,000.00	\$2,000.00	\$ 3,744.00	\$3,744.00
	Water Service Tapping Saddle (20")			\$ -	\$0.00	\$ -	\$0.00
	1" x 20"	1	ea.	\$ 2,000.00	\$2,000.00	\$ 3,821.00	\$3,821.00
	2" x 20"	1	ea.	\$ 2,001.00	\$2,001.00	\$ 3,821.00	\$3,821.00
	1" Service connections to Asbestos Cement Lines	5	ea.	\$ 940.66	\$4,703.29	\$ 12,007.00	\$60,035.00
IB - 18	Bulkhead Anchor (CA-4)	5	ea.	\$ 1,603.34	\$8,016.69	\$ 9,986.00	\$49,930.00
Section I, Division C - Trenching, Backfilling & Compaction of Utilities							
IC - 1	Pavement cut and removal, Asphalt Concrete (for pipe installation)	100	s.y.	\$ 50.00	\$5,000.00	\$ 30.00	\$3,000.00
IC - 2	Pavement cut and removal, Unreinforced Concrete (for pipe installation)	50	s.y.	\$ 100.00	\$5,000.00	\$ 53.00	\$2,650.00
	Pavement cut and removal, Reinforced concrete (for pipe installation)	10	s.y.	\$ 50.00	\$500.00	\$ 101.00	\$1,010.00
IC - 4	Extra depth excavation (Std. depth to 16 feet)	1,000	c.y.	\$ 20.29	\$20,287.28	\$ 49.00	\$49,000.00
	Extra depth excavation (greater than 16 feet)	100	c.y.	\$ 45.65	\$4,564.64	\$ 152.00	\$15,200.00
IC - 5	Foundation Stone, VDOT #1	50	T	\$ 40.83	\$2,041.32	\$ 76.00	\$3,800.00
IC - 6	Compacted Aggregate Backfill	100	T	\$ 65.00	\$6,500.00	\$ 109.00	\$10,900.00
IC - 7	Course Granular Aggregate Backfill	100	T	\$ 65.00	\$6,500.00	\$ 70.00	\$7,000.00
IC - 8	Trench (Select) Borrow Backfill	500	c.y.	\$ 25.00	\$12,500.00	\$ 60.00	\$30,000.00
IC - 9	Rock Excavation (trench rock)	10	c.y.	\$ 600.00	\$6,000.00	\$ 402.00	\$4,020.00
IC - 10	Maintenance Stone for pipe installation 6" compacted layer, VDOT 21A	500	s.y.	\$ 25.00	\$12,500.00	\$ 23.00	\$11,500.00
IC - 11	Aggregate Base Stone for Paved Driveway Repair (6 in. layer)	200	s.y.	\$ 16.00	\$3,200.00	\$ 51.00	\$10,200.00
	Aggregate Base Stone for Gravel Driveway Repair (6 in. layer)	200	s.y.	\$ 16.00	\$3,200.00	\$ 51.00	\$10,200.00
IC - 13	Railroad Ballast	25	T	\$ 50.00	\$1,250.00	\$ 77.00	\$1,925.00
IC - 14	Stone dust (spread as directed)	50	T	\$ 27.60	\$1,380.00	\$ 48.00	\$2,400.00
Section I, Division D - Earthwork							
ID - 1	Offsite Borrow	500	c.y.	\$ 32.00	\$16,000.00	\$ 31.00	\$15,500.00
ID - 2	Regular Excavation	300	c.y.	\$ 25.00	\$7,500.00	\$ 49.00	\$14,700.00

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Bid Tabulation
December 02, 2020

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				J & M Infrastructure		Aaron J. Conner	
Item	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price
ID - 3	Rock Excavation	10	c.y.	\$ 600.00	\$6,000.00	\$ 402.00	\$4,020.00
ID - 4	Undercut Excavation	25	c.y.	\$ 60.00	\$1,500.00	\$ 63.00	\$1,575.00
ID - 5	Pavement cut and removal	50	s.y.	\$ 75.00	\$3,750.00	\$ 30.00	\$1,500.00
ID - 6	Concrete cut and removal	50	s.y.	\$ 100.00	\$5,000.00	\$ 139.00	\$6,950.00
ID - 7	Replacement of concrete curb & gutter DOT CG-6 type	100	l.f.	\$ 40.00	\$4,000.00	\$ 185.00	\$18,500.00
ID - 8	Replacement of straight curb with DOT Standard CG-2 type	50	l.f.	\$ 40.00	\$2,000.00	\$ 166.00	\$8,300.00
ID - 9	Replacement of VDOT standard straight curb with footer	50	l.f.	\$ 35.00	\$1,750.00	\$ 185.00	\$9,250.00
ID - 10	Replacement of Concrete driveways, entrances, and sidewalks, 7" thick	50	s.y.	\$ 116.10	\$5,805.00	\$ 498.00	\$24,900.00
ID - 11	Replacement of Concrete Sidewalk, 4" thick	100	s.y.	\$ 95.00	\$9,500.00	\$ 328.00	\$32,800.00
ID - 12	Facedown Concrete Curb	100	l.f.	\$ 35.00	\$3,500.00	\$ 207.00	\$20,700.00
ID - 13	Replacement of Concrete Handicap Ramp	50	s.y.	\$ 100.00	\$5,000.00	\$ 494.00	\$24,700.00
ID - 14	Unformed Concrete	10	c.y.	\$ 400.00	\$4,000.00	\$ 889.00	\$8,890.00
ID - 15	Formed Concrete	10	c.y.	\$ 400.00	\$4,000.00	\$ 5,467.00	\$54,670.00
ID - 16	Reinforcing Wire Mesh (6"X6", 10 GA)	10	ea.	\$ 60.00	\$600.00	\$ 889.00	\$8,890.00
ID - 17	Reinforcing Steel Bars	100	lbs.	\$ 1.68	\$167.90	\$ 451.00	\$45,100.00
Section I, Division E - Miscellaneous to All Sections							
IE - 1	Clearing and Grubbing, Lightly Wooded Areas	0.5	A	\$ 4,830.00	\$2,415.00	\$22,365.00	\$11,182.50
IE - 2	Clearing and Grubbing, Heavily Wooded Areas	0.5	A	\$ 6,727.50	\$3,363.75	\$30,915.00	\$15,457.50
IE - 3	Flowable fill	100	c.y.	\$ 150.00	\$15,000.00	\$ 953.00	\$95,300.00
IE - 4	Seeding and fine grading for areas < 500 s.y.	1,000	s.y.	\$ 2.00	\$2,000.00	\$ 16.00	\$16,000.00
	Seeding and fine grading > 500 s.y.	2,000	s.y.	\$ 1.50	\$3,000.00	\$ 16.00	\$32,000.00
IE - 5	Straw bale barrier	100	l.f.	\$ 20.00	\$2,000.00	\$ 17.00	\$1,700.00
IE - 6	Silt fence barrier	500	l.f.	\$ 5.00	\$2,500.00	\$ 5.00	\$2,500.00
IE - 7	Gravel Outfall Structures	25	T	\$ 40.00	\$1,000.00	\$ 214.00	\$5,350.00
IE - 8	Temporary Diversion Dikes	100	l.f.	\$ 13.00	\$1,300.00	\$ 74.00	\$7,400.00
IE - 9	Construction Entrance	100	T	\$ 35.00	\$3,500.00	\$ 152.00	\$15,200.00
IE - 10	Dry rip-rap Class I	50	T	\$ 45.00	\$2,250.00	\$ 181.00	\$9,050.00
	Grouted rip-rap Class I	50	T	\$ 90.00	\$4,500.00	\$ 253.00	\$12,650.00
	Dry rip-rap Class II	50	T	\$ 45.00	\$2,250.00	\$ 126.00	\$6,300.00
	Grouted rip-rap Class II	50	T	\$ 90.00	\$4,500.00	\$ 276.00	\$13,800.00
	Dry rip-rap, graded, Class A1	50	T	\$ 45.00	\$2,250.00	\$ 145.00	\$7,250.00
	Grouted rip-rap, graded, Class A1	50	T	\$ 90.00	\$4,500.00	\$ 295.00	\$14,750.00
	Grouted rip-rap, graded, Class A1	50	T	\$ 90.00	\$4,500.00	\$ 295.00	\$14,750.00
IE - 11	VDOT EC-2 matting	500	s.y.	\$ 6.00	\$3,000.00	\$ 15.00	\$7,500.00
IE - 12	Tree Removal (6" to 15" in diameter)	10	ea.	\$ 1,700.00	\$17,000.00	\$ 1,974.00	\$19,740.00
IE - 13	Tree Removal (over 15" in diameter)	10	ea.	\$ 1,900.00	\$19,000.00	\$ 2,641.00	\$26,410.00
IE - 14	Temporary Seeding (Fall/Winter Mix)	1,000	s.y.	\$ 2.00	\$2,000.00	\$ 15.00	\$15,000.00
IE - 16	Drop inlet silt trap	2	ea.	\$ 600.00	\$1,200.00	\$ 3,700.00	\$7,400.00
IE - 17	Service connections to Asbestos Cement Service Lines	5	ea.	\$ 500.00	\$2,500.00	\$11,978.00	\$59,890.00
Section II, Division A - Encasement Pipe							
IIA - 1	2" Casing for Water or Pressure Sewer (Bored)	100	l.f.	\$ 100.00	\$10,000.00	\$ 332.00	\$33,200.00
	4" Steel Casing for Water or Pressure Sewer (Bored)	600	l.f.	\$ 50.00	\$30,000.00	\$ 345.00	\$207,000.00
	8" Steel Casing for Water or Pressure Sewer (Bored)	25	l.f.	\$ 150.00	\$3,750.00	\$ 474.00	\$11,850.00
	12" Steel Casing for Water or Pressure Sewer (Bored)	25	l.f.	\$ 300.00	\$7,500.00	\$ 514.00	\$12,850.00
	16" to 20" Steel Casing for Water/Pressure Sewer (Bored)	25	l.f.	\$ 200.00	\$5,000.00	\$ 680.00	\$17,000.00
	18" to 22" Steel Casing for Water/Pressure Sewer (Bored)	25	l.f.	\$ 200.00	\$5,000.00	\$ 775.00	\$19,375.00
	20" to 24" Steel Casing for Water/Pressure Sewer (Bored)	25	l.f.	\$ 700.00	\$17,500.00	\$ 836.00	\$20,900.00
	30" to 36" Steel Casing for Water/Pressure Sewer (Bored)	25	l.f.	\$ 550.00	\$13,750.00	\$ 1,004.00	\$25,100.00
	8" Steel Casing for Gravity Sewer (Bored)	50	l.f.	\$ 200.00	\$10,000.00	\$ 514.00	\$25,700.00
	12" Steel Casing for Gravity Sewer (Bored)	25	l.f.	\$ 300.00	\$7,500.00	\$ 578.00	\$14,450.00
	16" to 20" Steel Casing for Gravity Sewer (Bored)	25	l.f.	\$ 200.00	\$5,000.00	\$ 749.00	\$18,725.00
	18" to 22" Steel Casing for Gravity Sewer (Bored)	25	l.f.	\$ 200.00	\$5,000.00	\$ 928.00	\$23,200.00
	20" to 24" Steel Casing for Gravity Sewer (Bored)	25	l.f.	\$ 700.00	\$17,500.00	\$ 1,004.00	\$25,100.00
	30" to 36" Steel Casing for Gravity Sewer (Bored)	25	l.f.	\$ 550.00	\$13,750.00	\$ 1,304.00	\$32,600.00
IIA - 2	2" Casing for Water or Pressure Sewer (Open Cut)	100	l.f.	\$ 100.00	\$10,000.00	\$ 392.00	\$39,200.00
	4" Steel Casing for Water or Pressure Sewer (Open Cut)	600	l.f.	\$ 50.00	\$30,000.00	\$ 319.00	\$191,400.00
	8" Steel Casing for Water or Pressure Sewer (Open Cut)	25	l.f.	\$ 100.00	\$2,500.00	\$ 445.00	\$11,125.00
	12" Steel Casing for Water or Pressure Sewer (Open Cut)	25	l.f.	\$ 150.00	\$3,750.00	\$ 475.00	\$11,875.00
	16" to 20" Steel Casing for Water/Pressure Sewer (Open Cut)	25	l.f.	\$ 100.00	\$2,500.00	\$ 569.00	\$14,225.00
	18" to 22" Steel Casing for Water/Pressure Sewer (Open Cut)	25	l.f.	\$ 197.00	\$4,925.00	\$ 716.00	\$17,900.00
	20" to 24" Steel Casing for Water/Pressure Sewer (Open Cut)	25	l.f.	\$ 250.00	\$6,250.00	\$ 568.00	\$14,200.00
	30" to 36" Steel Casing for Water/Pressure Sewer (Open Cut)	25	l.f.	\$ 281.00	\$7,025.00	\$ 686.00	\$17,150.00
	8" Steel Casing for Gravity Sewer (Open Cut)	50	l.f.	\$ 75.00	\$3,750.00	\$ 569.00	\$28,450.00
	12" Steel Casing for Gravity Sewer (Open Cut)	25	l.f.	\$ 150.00	\$3,750.00	\$ 742.00	\$18,550.00
	16" to 20" Steel Casing for Gravity Sewer (Open Cut)	25	l.f.	\$ 197.00	\$4,925.00	\$ 887.00	\$22,175.00
	18" to 22" Steel Casing for Gravity Sewer (Open Cut)	25	l.f.	\$ 177.00	\$4,425.00	\$ 895.00	\$22,375.00
	20" to 24" Steel Casing for Gravity Sewer (Open Cut)	25	l.f.	\$ 250.00	\$6,250.00	\$ 956.00	\$23,900.00
	30" to 36" Steel Casing for Gravity Sewer (Open Cut)	25	l.f.	\$ 281.00	\$7,025.00	\$ 1,198.00	\$29,950.00
IIA - 3	Bore Set-up for Water or Pressure Sewer	25	l.f.	\$ 2,000.00	\$50,000.00	\$ 5,475.00	\$136,875.00

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				J & M Infrastructure		Aaron J. Conner	
Item	Description	Quantity	Unit	Unit Price	Total Price	Unit Price	Total Price
	Bore Set-up for Gravity Sewer	25	l.f.	\$ 2,000.00	\$50,000.00	\$ 7,575.00	\$189,375.00
Section II, Division B - Water Line and Sewer Line Construction and Rehabilitation							
IIB - 1	Directional Drilling for 2" carrier and casing 0 - 50ft	50	l.f.	\$ 100.00	\$5,000.00	\$ 333.00	\$16,650.00
	50 - 100ft	100	l.f.	\$ 75.00	\$7,500.00	\$ 287.00	\$28,700.00
	100 - 200ft	200	l.f.	\$ 75.00	\$15,000.00	\$ 264.00	\$52,800.00
	Directional Drilling for 4" carrier and casing 0 - 50ft	50	l.f.	\$ 150.00	\$7,500.00	\$ 340.00	\$17,000.00
	50 - 100ft	100	l.f.	\$ 125.00	\$12,500.00	\$ 293.00	\$29,300.00
	100 - 200ft	200	l.f.	\$ 125.00	\$25,000.00	\$ 267.00	\$53,400.00
	Directional Drilling for 6" carrier and casing 0 - 50ft	50	l.f.	\$ 150.00	\$7,500.00	\$ 347.00	\$17,350.00
	50 - 100ft	100	l.f.	\$ 110.00	\$11,000.00	\$ 293.00	\$29,300.00
	100 - 200ft	200	l.f.	\$ 110.00	\$22,000.00	\$ 275.00	\$55,000.00
	Directional Drilling for 8" carrier and casing 0 - 50ft	50	l.f.	\$ 175.00	\$8,750.00	\$ 373.00	\$18,650.00
	50 - 100ft	100	l.f.	\$ 125.00	\$12,500.00	\$ 333.00	\$33,300.00
	100 - 200ft	200	l.f.	\$ 125.00	\$25,000.00	\$ 307.00	\$61,400.00
	Directional Drilling for 10" carrier and casing 0 - 50ft	50	l.f.	\$ 150.00	\$7,500.00	\$ 400.00	\$20,000.00
	50 - 100ft	100	l.f.	\$ 150.00	\$15,000.00	\$ 373.00	\$37,300.00
	100 - 200ft	200	l.f.	\$ 150.00	\$30,000.00	\$ 347.00	\$69,400.00
IIB - 2	Rehab of exist sewer using 8-inch flexible liner	200	l.f.	\$ 40.00	\$8,000.00	\$ 70.00	\$14,000.00
	Rehab of exist sewer using 10-inch flexible liner	100	l.f.	\$ 40.00	\$4,000.00	\$ 95.00	\$9,500.00
	Rehab of exist sewer using 12-inch flexible liner	100	l.f.	\$ 48.00	\$4,800.00	\$ 113.00	\$11,300.00
IIB - 3	Interior Manhole Sealant (Rehabilitation)	50	v.f.	\$ 150.00	\$7,500.00	\$ 544.00	\$27,200.00
IIB - 4	Asbestos Cement Pipe Removal (12 l.f. or less)	12	l.f.	\$ 600.00	\$7,200.00	\$ 909.00	\$10,908.00
	Asbestos Cement Pipe Removal (Greater than 12 l.f.)	120	l.f.	\$ 100.00	\$12,000.00	\$ 771.00	\$92,520.00
IIB - 5	Manhole abandonment (to include inlets)	10	ea.	\$ 1,000.00	\$10,000.00	\$ 3,217.00	\$32,170.00
Section III - Extra Work							
III - 1	Single axle dump truck	150	hrs.	\$ 100.00	\$15,000.00	\$ 72.00	\$10,800.00
III - 2	Tandem axle dump truck	200	hrs.	\$ 100.00	\$20,000.00	\$ 83.00	\$16,600.00
III - 3	Track loader (Model cat 955)	100	hrs.	\$ 150.00	\$15,000.00	\$ 126.00	\$12,600.00
III - 4	Rubber tired loader (Model Cat 930)	150	hrs.	\$ 150.00	\$22,500.00	\$ 98.00	\$14,700.00
III - 5	Backhoe (wheel type model Case 580)	200	hrs.	\$ 200.00	\$40,000.00	\$ 75.00	\$15,000.00
III - 6	Backhoe (crawler type model 225)	150	hrs.	\$ 200.00	\$30,000.00	\$ 149.00	\$22,350.00
III - 7	Farm tractor (35 H.P.)	10	hrs.	\$ 90.00	\$900.00	\$ 100.00	\$1,000.00
III - 8	Concrete Hoe Ram (7,500lbs)	25	hrs.	\$ 400.00	\$10,000.00	\$ 290.00	\$7,250.00
III - 9	Vacuum Excavator	10	hrs.	\$ 400.00	\$4,000.00	\$ 131.00	\$1,310.00
III - 10	Bobcat Excavator	50	hrs.	\$ 400.00	\$20,000.00	\$ 100.00	\$5,000.00
III - 11	Power broom	100	hrs.	\$ 60.00	\$6,000.00	\$ 75.00	\$7,500.00
III - 12	Asphalt saw	20	hrs.	\$ 100.00	\$2,000.00	\$ 42.00	\$840.00
III - 13	Flashing Directional arrow	50	hrs.	\$ 25.00	\$1,250.00	\$ 22.00	\$1,100.00
III - 14	Air Compressor (including attachments)	20	hrs.	\$ 50.00	\$1,000.00	\$ 42.00	\$840.00
III - 15	Man power (Labor & Supervision)	500	hrs.	\$ 50.00	\$25,000.00	\$ 164.00	\$82,000.00
III - 16	Traffic Cushion Truck	10	hrs.	\$ 85.00	\$850.00	\$ 90.00	\$900.00
III - 17	Longitudinal Channelizing Devices, i.e. Lighted Barrels	20	Ea./day	\$ 2.00	\$40.00	\$ 5.00	\$100.00
III - 18	Longitudinal Channelizing Devices, i.e. Barrels	20	Ea./day	\$ 2.00	\$40.00	\$ 4.00	\$80.00
III - 19	Type I Barricade	10	Ea./day	\$ 2.00	\$20.00	\$ 5.00	\$50.00
III - 20	Type III Barricade	10	Ea./day	\$ 2.00	\$20.00	\$ 15.00	\$150.00
III - 21	Pilot truck	50	hrs.	\$ 45.00	\$2,250.00	\$ 71.00	\$3,550.00
III - 22	Flaggers	10	hrs.	\$ 50.00	\$500.00	\$ 105.00	\$1,050.00
III - 23	Portable Light Tower	10	hrs.	\$ 50.00	\$500.00	\$ 22.00	\$220.00
Section IV - On-call Emergency and After-Hours Work							
IV - 1	Single axle dump truck	100	hrs.	\$ 200.00	\$20,000.00	\$ 144.00	\$14,400.00
IV - 2	Tandem axle dump truck	100	hrs.	\$ 300.00	\$30,000.00	\$ 166.00	\$16,600.00
IV - 3	Track loader (Model cat 955)	50	hrs.	\$ 250.00	\$12,500.00	\$ 252.00	\$12,600.00
IV - 4	Rubber tired loader (Model Cat 930)	50	hrs.	\$ 400.00	\$20,000.00	\$ 196.00	\$9,800.00
IV - 5	Backhoe (wheel type model Case 580)	100	hrs.	\$ 400.00	\$40,000.00	\$ 150.00	\$15,000.00
IV - 6	Backhoe (crawler type model 225)	100	hrs.	\$ 400.00	\$40,000.00	\$ 298.00	\$29,800.00
IV - 7	Farm tractor (35 H.P.)	10	hrs.	\$ 90.00	\$900.00	\$ 200.00	\$2,000.00
IV - 8	Concrete Hoe Ram (7,500lbs)	25	hrs.	\$ 500.00	\$12,500.00	\$ 580.00	\$14,500.00
IV - 9	Vacuum Excavator	10	hrs.	\$ 500.00	\$5,000.00	\$ 262.00	\$2,620.00
IV - 10	Bobcat Excavator	50	hrs.	\$ 500.00	\$25,000.00	\$ 200.00	\$10,000.00
IV - 11	Power broom	50	hrs.	\$ 250.00	\$12,500.00	\$ 150.00	\$7,500.00
IV - 12	Asphalt saw	10	hrs.	\$ 150.00	\$1,500.00	\$ 84.00	\$840.00
IV - 13	Flashing Directional arrow	25	hrs.	\$ 25.00	\$625.00	\$ 44.00	\$1,100.00
IV - 14	Air Compressor (including attachments)	20	hrs.	\$ 100.00	\$2,000.00	\$ 84.00	\$1,680.00
IV - 15	Man power (Labor & Supervision)	500	hrs.	\$ 100.00	\$50,000.00	\$ 328.00	\$164,000.00
IV - 16	Traffic Cushion Truck	10	hrs.	\$ 150.00	\$1,500.00	\$ 180.00	\$1,800.00
IV - 17	Longitudinal Channelizing Devices, i.e. Lighted Barrels	20	Ea./day	\$ 3.00	\$60.00	\$ 10.00	\$200.00
IV - 18	Longitudinal Channelizing Devices, i.e. Barrels	20	Ea./day	\$ 3.00	\$60.00	\$ 8.00	\$160.00
IV - 19	Type I Barricade	10	Ea./day	\$ 3.00	\$30.00	\$ 10.00	\$100.00
IV - 20	Type III Barricade	10	Ea./day	\$ 3.00	\$30.00	\$ 30.00	\$300.00
IV - 21	Pilot truck	25	hrs.	\$ 65.00	\$1,625.00	\$ 142.00	\$3,550.00
IV - 22	Flaggers	10	hrs.	\$ 1,500.00	\$15,000.00	\$ 210.00	\$2,100.00
IV - 23	Portable Light Tower	10	hrs.	\$ 100.00	\$1,000.00	\$ 44.00	\$440.00
IV - 24	After-Hour/ Emergency Mobilization	1	LS	\$ 10,000.00	\$10,000.00	\$ 8,720.00	\$8,720.00
IV - 25	After-Hours/ Emergency Maintenance of Traffic Setup	1	LS	\$ 10,000.00	\$10,000.00	\$ 7,000.00	\$7,000.00