

| Procurement Form (FOR) | | | | | | | |
|--|--|----------------------------|------------|--|--|--|--|
| Effective Date: Document #: FSA_PRO_FOR_0033 | | Revision Date: N/A | Revision#: | | | | |
| | | Document Owner/Department: | | | | | |

Document Title: Cost Tabulation/Notice of Respondents

Document Owner/Department: Procurement Team

Contract No./Title: 2202956/Professional and Technical Services for Sewer Meter Support

Date: 3/6/2023

| | | | | <u> </u> | | | | 1 | | | | PCI Vetrix | | μ: | ımlett Enginee | ring |
|------------|------------------|-------------------|---|--|---|--------------------|---------------------------------------|--|--|------------------------------------|--------------------------|----------------------------|----------------------------|----------------------|-----------------------------------|--------------------------------|
| | | # | | | | | | | | | | T CI VELIIX | | | miett Liiginee | |
| | | of Visits | | | | | | | | Notes | | | 5 Year | | | 5 Year |
| | | Per | Meter | Meter | Site | | Meter | Meter | Meter | Regarding | Unit | Annual | Total | Unit | Annual | Total |
| ustom | er Me | year eter Deta | UofM Identifier ail and Scheduled Work Co | Location sting Table | Name | Size | Make/Model | Туре | Type(s) | Access | Price | Cost | Cost | Price | Cost | Cost |
| | Requi | ired Visi | ts Per Year for Inspection (| Only (45) | | | T | 1 | T | Local Traffic | 1 | | | | | |
| 1-1 | 1.A.1 | 8 | Visits AP-S-1 | 16601 S. Dearborn | Enterprise & S. Dearborn | 2' | ISCO LaserFlow meter | Laser | Laser | Control Required | \$2,200.00 | \$17,600.00 | \$88,000.00 | \$600.00 | \$4,800.00 | \$24,000.0 |
| 1-2 | 1.A.2 | | Visits AP-S-2 | 1555 Fairlane Dr | Fairlane Dr, (Rotunda & Rouge River) | 8" | ABB /Magmaster | Magmeter | Inverted Siphon | '- | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$600.00 | \$4,800.00 | \$24,000.0 |
| 1-3 | 1.A.3 | 8 | Visits AP-S-3 | 14700 Moran Rd. | Moran & Old goddard rd | 6" | Siemens LUT 440 | Parshall Flume | Flume / Down Looker | MDOT Traffic | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| 1-4 | 1.A.4 | | Visits CL-S-1 | 8020 E. 8 Mile Rd | 8 Mile & Van Dyke (P.S.) | 10" | ABB /Magmaster | Magmeter | Magnetic | Control Required | \$2,440.00 | \$19,520.00 | \$97,600.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| 1-5 | 1.A.5 | 8 | Visits DN-S-2 | 2701 Greenfield Rd | Greenfield (P.S.) | 36" | Siemens MAGFLO | Magmeter | Magnetic | MDOT Traffic | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| 1-6 | 1.A.6 | | Visits DN-S-4 | 3824 Southfield Rd | Southfield (S), North of Hubbard Dr. | 12" | ABB /Magmaster | Magmeter | Magnetic | Control Required | \$2,440.00 | \$19,520.00 | \$97,600.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| 1-7 | 1.A.7 | 8 | Visits DN-S-5 | 3824 Southfield Rd | Southfield (NB), S of Hubbard Dr. Michigan Ave. & Emerson (E. of | 8" | ABB /Magmaster | Magmeter | Magnetic | - | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| l-8 l-9 | 1.A.8 | | Visits DN-S-6 | 17301 Michigan Ave | Southfield Fwy) | 3" | Miltronic OCM III | Parshall Flume | Flume / Down Looker | <u>-</u> | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| -10 | 1.A.9 1.A.10 | | Visits DN-S-7 Visits DN-S-8 | 19320 Ford Rd 1390 Miller Rd | Altar (E. of Evergreen) & Ford Rd. Miller Road (P.S.) | 3" 54" | Miltronic OCM III ADS / NivuFlow | Parshall Flume Continuous wave doppler | Flume / Down Looker Range Gated Doppler | - '- | \$1,440.00 \$1,440.00 | \$11,520.00 \$11,520.00 | \$57,600.00 \$57,600.00 | \$625.00 \$625.00 | \$5,000.00 \$5,000.00 | \$25,000. \$25,000. |
| -11 | 1.A.11 | 1 8 | Visits FA-S-1 | 22990 8 Mile Rd | 22990 8 Mile Rd | 9" | Siemens LUT400 | Parshall Flume | Flume / Down Looker | L. Contact Customer | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -12 | 1.A.12 | 2 8 | Visits GK-S-1 | 15115 E. Jefferson Ave | Jefferson & Maryl (P.S.) Storm Pump | 72" | Siemens LUT401 | Parshall Flume | Flume / Down Looker | Contact Customer for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| -13 | 1.A.13 | | Visits GK-S-2 | 15115 E. Jefferson Ave | Jefferson & Maryl (P.S.) | 16" | ADD /Magmastas | Magmatar | Magnetic | Contact Customer | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | ¢3E 000 / |
| -13 | 1.A.13 | 3 0 | VISILS GK-3-2 | 15115 E. JETTETSOTI AVE | Jerreison & Maryr (P.S.) | 10 | ABB /Magmaster | Magmeter | Magnetic | for Access Contact Customer | \$1,440.00 | \$11,520.00 | \$57,000.00 | \$625.00 | \$5,000.00 | \$25,000.0 |
| -14 | 1.A.14 | 4 8 | Visits GP-S-1 | 795 Neff Rd. | Charlevoix st. & Neff rd, | 18" | Siemens MAGFLO | Magmeter | Magnetic | for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -15 | 1.A.15 | 5 8 | Visits GPF-MAG | 312 Chalfonte Ave | Grosse Pointe Farms Sewage Pumping Station | 1' | ABB /Magmaster | Magmeter | Magnetic | Contact Customer for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| 16 | 1 / 1/ | | Visits ME-S-1 | 3250 Greenfield Rd | 3250 Greenfield Rd, Melvindale (P.S.) | 16" | A PR Water Master | | Magnetic | Contact Customer | ¢1 440 00 | ¢11 E20 00 | ¢E7 600 00 | ¢ear oo | \$5,000.00 | ¢2F 000 |
| -16 -17 | 1.A.16 1.A.17 | | Visits ME-S-1 Visits OC-S-1 | 8 Mile & Southfield Rd | 8 Mile & Southfield | 16" 5.5' | ABB Water Master NuSonic | Magmeter Magmeter-Seimens | Magnetic Transit-Time | for Access '- | \$1,440.00 \$1,440.00 | \$11,520.00 \$11,520.00 | \$57,600.00 \$57,600.00 | \$625.00 \$625.00 | \$5,000.00 | \$25,000. \$25,000. |
| | | | | | | | | | Magnetic | Contact Customer | | | | | | |
| -18 | 1.A.18 | 8 8 | Visits SE-S-1 | 20480 Dequindre | 8 Mile & Dequindre | 5.5' | Siemens MAGFLO | Magmeter | Magnetic | for Access Contact Customer | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -19 | 1.A.19 | | Visits WC-S-1 | 173 S Fort Street | S Fort & Oakwood | 6.5' | ADS / NivuFlow | Continuous wave doppler | Range Gated Doppler | for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -20 -21 | 1.A.20 | | Visits WC-S-2 Visits WC-S-3 | 2110 Ford Rd 3250 Greenfield Rd | Ford Road & Evergreen Ford Road & Evergreen | 5.5' 5' | ADS / NivuFlow ADS / NivuFlow | Continuous wave doppler Continuous wave doppler | Range Gated Doppler Range Gated Doppler | - - | \$1,440.00 \$1,440.00 | \$11,520.00 \$11,520.00 | \$57,600.00 \$57,600.00 | \$625.00 \$625.00 | \$5,000.00 \$5,000.00 | \$25,000. \$25,000. |
| 22 | 4 4 22 | | Visite WAACA | 244 Chalfanta A | Karlan Baard B C | 4211 | ADC / All Fla | Carting and a second | Daniel Catal Daniel | Contact Customer | £4.440.00 | Ć11 F30 00 | ¢57 600 00 | ¢625.00 | ÅF 000 00 | ¢25.000 |
| -22 | 1.A.22 | 2 8 | Visits WM-S-1 | 311 Chalfonte Ave | Kerby Road P.S. | 42" | ADS / NivuFlow | Continuous wave doppler | Range Gated Doppler | for Access Contact Customer | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -23 | 1.A.23 | 3 8 | Visits NES-DWP | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 1' | ABB /Magmaster | Magmeter | Magnetic | for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -24 | 1.A.24 | 4 8 | Visits NES-S-1 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 5' | ABB /Magmaster | Magmeter | Magnetic | Contact Customer for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| | | | | | | | | | | Contact Customer | | | | | | |
| -25 | 1.A.25 | 5 8 | Visits NES-S-2 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 5' | ABB /Magmaster | Magmeter | Magnetic | for Access Contact Customer | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -26 | 1.A.26 | 6 8 | Visits NES-S-4 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 4' | ABB /Magmaster | Magmeter | Magnetic | for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -27 | 1.A.27 | 7 8 | Visits NES-S-5 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 5' | ABB /Magmaster | Magmeter | Magnetic | Contact Customer for Access | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| | | | | | | | | | | Contact Customer | | | | | | |
| -28 | 1.A.28 | 8 8 | Visits NES-S-6 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 5' | ABB /Magmaster ADS NivuFlow / ISCO | Magmeter Continuous wave doppler / | Magnetic Range Gated Doppler / | for Access Shutdown | \$1,440.00 | \$11,520.00 | \$57,600.00 | \$625.00 | \$5,000.00 | \$25,000. |
| -29 | 1.B.1 | 2 | Visits BC-S-2 (2 meters) | | Baby Creek CSO Toward-Treatment Sewer | 6' | LaserFlowmeter | Laser Flow meter | Laser Flow Meter | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250. |
| -30 | 1.B.2 | 2 | Visits DT-S-1 | Evergreen Road north of Ann Arbor Trail | Northwest Interceptor at Evergreen Road | 6' | Teledyne / ISCO Pro 20 | Continuous wave doppler | ADFM | Shutdown Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250.0 |
| | | | | | Hubbell - Southfield at Ford HQ (Mercury | 14.25'h x | | | | Shutdown | | | | | | |
| -31 | 1.B.3 | 2 | Visits DT-S-3 | 16401 Ford Rd., Dearborn | Dr. and Executive Plaza Dr.) | 13.313' w | Accusonic 8510 IS | Open Channel Transit Time | Multi path (Transit-Time | Request Required Shutdown | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250. |
| -32 | 1.B.4 | 2 | Visits DT-S-6 | | Baby Creek, Highland Park | 24' | Accusonic 8510 IS | Open Channel Transit Time | Multi path (Transit-Time | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250. |
| -33 | 1.B.5 | 2 | Visits DT-S-7 | 12244 Jefferson Ave., Detroit | Conner Creek Forebay DT-S-7 | 7' | Accusonic 8510 IS | Open Channel Transit Time | Multi path (Transit-Time) | Shutdown Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250. |
| | | | | | , | | | | | Shutdown | | | | | | |
| -34 | 1.B.6 | 2 | Visits DT-S-8 | 9002 E. Jefferson, Detroit | DRI @ Jeffersonian Apartments | 11' | ADS / NivuFlow | Continuous wave doppler Pulse Doppler (ISCO Pro 20) | Range Gated Doppler | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250. |
| | | | | | | | | Accusonic, Has Pulsar level | | | | | | | | |
| | | | | | | | | sensor Pulsar has level Pro 20 has flow, level and | | Shutdown | | | | | | |
| -35 | 1.B.7 | 2 | Visits DT-S-10 | 2201 Franklin rd. | Franklin & Dubois st. | 13 | Teledyne / ISCO Pro 21 | velocity | ADFM | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250.0 |
| | | | | | | | | Pulse Doppler (ISCO Pro 20) Accusonic, Has Pulsar level | '[| | | | | | | |
| | | | | | | | | sensor Pulsar has level Pro | | | | | | | | |
| -36 | 1.B.8 | 2 | Visits DT-S-11 | Mt. Elliot and Palmer | Conant - Mt. Elliot | 16.25' | Teledyne / ISCO Pro 21 | 20 has flow, level and velocity | ADFM | Shutdown Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250 |
| | | | | | DRI @ Jefferson between Rosa Park and | | , , | | | Shutdown | | | | | | |
| -37 | 1.B.9 | 2 | Visits DT-S-12 | 1980 W. Jefferson Avenue | vermont | 15.25' 7' rect. | Accusonic 7510 IS | Open Channel Transit Time | Multi path (Transit-Time | Kequest Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250 |
| | | | | 8718 Seven Mile Rd., | Connor @ Mt. Olivet (weir) in Mt. Olivet | notch in | | Weir Ultrasonic level | | Shutdown | | _ | ١. | | | |
| 38 | 1.B.10 | 2 | Visits DT-S-13 | Detroit | cemetery | 18.5' pipe | Siemens LUT400 | sensor | Compound Weir | Request Required Access Request | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250 |
| 39 | 1.B.11 | | Visits DT-S-14 | 11010 E State Fair Avenue | NEWTP Discharge Flows | 6' | Teledyne / ISCO 2150 | Continuous wave doppler | Open Channel | Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250 |
| 40 | 1.B.12 | 2 2 | Visits Oakwood PS | N/A | Oakwood Pump Station | N/A | N/A | (2) Magmeters; (8) ADFM | N/A | N/A Must Coordinate | \$2,880.00 | \$5,760.00 | \$28,800.00 | \$625.00 | \$1,250.00 | \$6,250 |
| 41 | 1.B.13 | 3 2 | Visits WRRF SFE_48 | WRRF Basement | WRRF SFE 48-inch line | 4' | Accusonic 7510 IS | Open Channel Transit Time | Multi path (Transit-Time | with WRRF Staff | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250 |
| -42 | 1.B.14 | 4 2 | Visits WRRF SFE_60 | WRRF Basement | WRRF SFE 60-inch line | 5' | Accusonic 7510 IS | Open Channel Transit Time | Multi path (Transit-Time) | Must Coordinate with WRRF Staff | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$625.00 | \$1,250.00 | \$6,250 |
| | | | | 1202 Bishop, Grosse | | | Teledyne / ISCO | | | Coord. with 3 | | | | | | |
| -43 -44 | 1.B.19 | | Visits WM-S-2 Visits WRRF_P2 | Pointe Park WRRF Pump Station 2 | Fox Creek Enclosure @ Kercheval WRRF Pump Station 2 | 14' N/A | Signature N/A | Laser (8) Magmeters | Laser N/A | Agencies N/A | \$1,440.00 \$5,760.00 | \$2,880.00 \$11,520.00 | \$14,400.00 \$57,600.00 | \$625.00 \$625.00 | \$1,250.00 \$1,250.00 | \$6,250. \$6,250. |
| | | | | | | | | | | Must Coordinate | | | | | | |
| -45 | 1.B.17 | 7 2 | Visits WRRF (8 meters) | WRRF | WRRF | N/A | Accusonic 8510 IS | Open Channel Transit Time | Multi path (Transit-Time | | \$5,760.00 | \$11,520.00 | | | \$1,250.00 \$160,850.00 | \$6,250. \$804,250 . |
| | | | | | | | | | | Subtotal - PM | i | 2413,76U.UU | \$2,068,800.00 | | 9±00,00U.00 | 4,004,2 |



| Procurement Form (FOR) | | | | | | | |
|--------------------------|---------------------------------|---------------------------|------------|--|--|--|--|
| Effective Date: 5/1/2019 | Document #: FSA_PRO_FOR_0033 | Revision Date: N/A | Revision#: | | | | |
| | | Document Owner/Department | | | | | |

Document Title: Cost Tabulation/Notice of Respondents

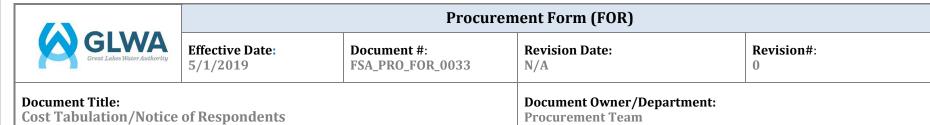
Document Owner/Department
Procurement Team

Contract No./Title: 2202956/Professional and Technical Services for Sewer Meter Support

Date: 3/6/2023

| | 1 | | | | | | | | | | | | PCI Vetrix | | На | ımlett Engine | ering |
|----------------|--------|--------------------------------------|------------------|--|--|---|--------------|---------------------------------------|--|--|------------------------------------|--------------------------|-----------------------------|--------------------------------------|--------------------------|-----------------------------|--------------------------------|
| | | # | | | | | | | | | | | PCI VELIIX | _ | ne | inilett Liigine | |
| | | Visits | | Makaa | Makas | Cia- | | M-4 | | Makaa | Notes | I I - i A | A 1 | 5 Year | I lock | A | 5 Year |
| # | Item | Per ns Year | UofM | Meter Identifier | Meter Location | Site Name | Size | Meter Make/Model | Meter Type | Meter Type(s) | Regarding Access | Unit Price | Annual Cost | Total Cost | Unit Price | Annual Cost | Total Cost |
| System 2 | | e <mark>r Detail</mark> uired Vis | | eduled Work Costi ear for PM and Cali | V | | | | | | | | _ | _ | _ | | |
| _ | | | | | | | | | | | Local Traffic | | | | | | |
| #2-1 #2-2 | 1.A.1 | | Visits Visits | | 16601 S. Dearborn 1555 Fairlane Dr | Enterprise & S. Dearborn Fairlane Dr, (Rotunda & Rouge River) | 2' 8" | ISCO LaserFlow meter ABB /Magmaster | Laser Magmeter | Laser Inverted Siphon | Control Required | \$2,200.00 \$1,440.00 | \$8,800.00 \$5,760.00 | \$44,000.00 \$28,800.00 | \$1,900.00 \$1,900.00 | \$7,600.00 \$7,600.00 | \$38,000.00 \$38,000.00 |
| #2-3 | 1.A.3 | | Visits | | 14700 Moran Rd. | Moran & Old goddard rd | 6" | Siemens LUT 440 | Parshall Flume | Flume / Down Looker | <u>.</u> | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | |
| #2-4 | 1.A.4 | 4 4 | Visits | CI-S-1 | 8020 E. 8 Mile Rd | 8 Mile & Van Dyke (P.S.) | 10" | ABB /Magmaster | Magmeter | Magnetic | MDOT Traffic Control Required | \$2,440.00 | \$9,760.00 | \$48,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-5 | 1.A.5 | | Visits | | 2701 Greenfield Rd | Greenfield (P.S.) | 36" | Siemens MAGFLO | Magmeter | Magnetic | <u>'-</u> | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-6 | 1.A.6 | 5 4 | Visits | DN-S-4 | 3824 Southfield Rd | Southfield (S), North of Hubbard Dr. | 12" | ABB /Magmaster | Magmeter | Magnetic | MDOT Traffic Control Required | \$2,440.00 | \$9,760.00 | \$48,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-7 | 1.A.7 | | Visits | | 3824 Southfield Rd | Southfield (NB), S of Hubbard Dr. | 8" | | Magmeter | Magnetic | Ļ | \$1,440.00 | \$5,760.00 | \$28,800.00 | | \$7,600.00 | |
| #2-8 | 1.A.8 | 8 4 | Visits | DN-S-6 | 17301 Michigan Ave | Michigan Ave. & Emerson (E. of Southfield Fwy) | 3" | Miltronic OCM III | Parshall Flume | Flume / Down Looker | L. | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-9 | 1.A.9 | 9 4 | Visits | DN-S-7 | 19320 Ford Rd | Altar (E. of Evergreen) & Ford Rd. | 3" | Miltronic OCM III | Parshall Flume | Flume / Down Looker | <u>'-</u> | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-10 #2-11 | 1.A.1 | | Visits Visits | DN-S-8 FA-S-1 | 1390 Miller Rd 22990 8 Mile Rd | Miller Road (P.S.) 22990 8 Mile Rd | 54" 9" | ADS / NivuFlow Siemens LUT400 | Continuous wave doppler Parshall Flume | Range Gated Doppler Flume / Down Looker | <u>.</u> | \$1,440.00 \$1,440.00 | \$5,760.00 \$5,760.00 | \$28,800.00 \$28,800.00 | \$1,900.00 \$1,900.00 | \$7,600.00 \$7,600.00 | |
| | | | | | | | | | | | Contact Customer | | | | | | |
| #2-12 | 1.A.1 | 12 4 | Visits | GK-S-1 | 15115 E. Jefferson Ave | Jefferson & Maryl (P.S.) Storm Pump | 72" | Siemens LUT401 | Parshall Flume | Flume / Down Looker | for Access Contact Customer | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-13 | 1.A.1 | 13 4 | Visits | GK-S-2 | 15115 E. Jefferson Ave | Jefferson & Maryl (P.S.) | 16" | ABB /Magmaster | Magmeter | Magnetic | for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-14 | 1.A.1 | 14 4 | Visits | GP-S-1 | 795 Neff Rd. | Charlevoix st. & Neff rd, | 18" | Siemens MAGFLO | Magmeter | Magnetic | Contact Customer for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| | | | | | | Grosse Pointe Farms Sewage Pumping | | | | | Contact Customer | | | | | | |
| #2-15 | 1.A.1 | 15 4 | Visits | GPF-MAG | 312 Chalfonte Ave | Station | 1' | ABB /Magmaster | Magmeter | Magnetic | for Access Contact Customer | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-16 | 1.A.1 | | | ME-S-1 | 3250 Greenfield Rd | 3250 Greenfield Rd, Melvindale (P.S.) | 16" | ABB Water Master | | Magnetic | for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | | \$7,600.00 | \$38,000.00 |
| #2-17 | 1.A.1 | 17 4 | Visits | OC-S-1 | 8 Mile & Southfield Rd | 8 Mile & Southfield | 5.5' | NuSonic | Magmeter-Seimens | Transit-Time | '- Contact Customer | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-18 | 1.A.1 | 18 4 | Visits | SE-S-1 | 20480 Dequindre | 8 Mile & Dequindre | 5.5' | Siemens MAGFLO | Magmeter | Magnetic | for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-19 | 1.A.1 | 10 1 | Vicito | WC-S-1 | 173 S Fort Street | S Fort & Oakwood | 6.5' | ADS / NivuFlow | Continuous wave doppler | Range Gated Doppler | Contact Customer for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-19 | 1.A.2 | 20 4 | Visits | WC-S-2 | 2110 Ford Rd | Ford Road & Evergreen | 5.5' | ADS / NivuFlow | Continuous wave doppler | Range Gated Doppler | '- | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-21 | 1.A.2 | 21 4 | Visits | WC-S-3 | 3250 Greenfield Rd | Ford Road & Evergreen | 5' | ADS / NivuFlow | Continuous wave doppler | Range Gated Doppler | '- Contact Customer | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-22 | 1.A.2 | 22 4 | Visits | WM-S-1 | 311 Chalfonte Ave | Kerby Road P.S. | 42" | ADS / NivuFlow | Continuous wave doppler | Range Gated Doppler | for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-23 | 1.A.2 | 23 4 | Visits | NES-DWP | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 1' | ABB /Magmaster | Magmeter | Magnetic | Contact Customer for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-24 | 1.A.2 | 24 4 | Visits | NES-S-1 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 5' | ABB /Magmaster | Magmeter | Magnetic | Contact Customer for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-25 | 1.A.2 | | | NES-S-2 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | | ABB /Magmaster | Magmeter | Magnetic | Contact Customer for Access | \$1,440.00 | \$5,760.00 | \$28,800.00 | | \$7,600.00 | \$38,000.00 |
| #2-26 | 1.A.2 | | | | 11000 E. 8 Mile Rd | | | | | | Contact Customer for Access | \$1,440.00 | | | | | |
| | | | | NES-S-4 | | Northeast Sewage Pumping Station (P.S.) | | ABB /Magmaster | Magmeter | Magnetic | Contact Customer | | \$5,760.00 | \$28,800.00 | | \$7,600.00 | \$38,000.00 |
| #2-27 | 1.A.2 | 27 4 | Visits | NES-S-5 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 5. | ABB /Magmaster | Magmeter | Magnetic | for Access Contact Customer | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-28 | 1.A.2 | 28 4 | Visits | NES-S-6 | 11000 E. 8 Mile Rd | Northeast Sewage Pumping Station (P.S.) | 5' | ABB /Magmaster ADS NivuFlow / ISCO | Magmeter Continuous wave doppler / | Magnetic Range Gated Doppler / | for Access Shutdown | \$1,440.00 | \$5,760.00 | \$28,800.00 | \$1,900.00 | \$7,600.00 | \$38,000.00 |
| #2-29 | 1.B.1 | 1 2 | Visits | BC-S-2 (2 meters) | Baby Creek CSO | Baby Creek CSO Toward-Treatment Sewer | 6' | LaserFlowmeter | Laser Flow meter | Laser Flow Meter | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| #2-30 | 1.B.2 | 2 2 | Visits | DT-S-1 | Evergreen Road north of Ann Arbor Trail | Northwest Interceptor at Evergreen Road | 6' | Teledyne / ISCO Pro 20 | Continuous wave doppler | ADFM | Shutdown Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| | | | | | | Hubbell - Southfield at Ford HQ (Mercury | | | | | Shutdown | | | | | | |
| #2-31 | 1.B.3 | 3 2 | Visits | DT-S-3 | 16401 Ford Rd., Dearborn | Dr. and Executive Plaza Dr.) | 14.25'h x 13 | Accusonic 8510 IS | Open Channel Transit Time | Multi path (Transit-Time) | Shutdown | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| #2-32 | 1.B.4 | 1 2 | Visits | DT-S-6 | 7457 Weatherby, Detroit 12244 Jefferson Ave., | Baby Creek, Highland Park | 24' | Accusonic 8510 IS | Open Channel Transit Time | Multi path (Transit-Time) | Request Required Shutdown | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| #2-33 | 1.B.5 | 5 2 | Visits | DT-S-7 | Detroit | Conner Creek Forebay DT-S-7 | 7' | Accusonic 8510 IS | Open Channel Transit Time | Multi path (Transit-Time) | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| #2-34 | 1 R 4 | 5 2 | Vicito | DT-S-8 | 9002 E Jefferson Detroit | DRI @ Jeffersonian Apartments | 11' | ADS / NivuFlow | Continuous wave doppler | Range Gated Doppler | Shutdown Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| WZ 34 | 1.0.0 | 1 | V131C3 | D1 3 0 | 5002 E. Jerrerson, Detroit | Ditt @ Jerrersonian Apartments | | ADS / NIVUTION | Pulse Doppler (ISCO Pro 20) | italige dated poppier | nequest nequired | \$1,440.00 | \$2,000.00 | \$14,400.00 | \$3,730.00 | \$7,500.00 | \$37,300.00 |
| | | | | | | | | | Accusonic, Has Pulsar level sensor Pulsar has level Pro | | | | | | | | |
| | | | | | | | | | 20 has flow, level and | | Shutdown | | | | | | |
| #2-35 | 1.B.7 | 7 2 | Visits | DT-S-10 | 2201 Franklin rd. | Franklin & Dubois st. | 13 | Teledyne / ISCO Pro 21 | velocity Pulse Doppler (ISCO Pro 20) | ADFM | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| | | | | | | | | | Accusonic, Has Pulsar level | | | | | | | | |
| | | | | | | | | | sensor Pulsar has level Pro 20 has flow, level and | | Shutdown | | | | | | |
| #2-36 | 1.B.8 | 3 2 | Visits | DT-S-11 | Mt. Elliot and Palmer | Conant - Mt. Elliot | 16.25' | Teledyne / ISCO Pro 21 | | ADFM | Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| #2-37 | 1.B.9 | 9 2 | Visits | DT-S-12 | 1980 W. Jefferson Avenue | DRI @ Jefferson between Rosa Park and Vermont | 15.25' | Accusonic 7510 IS | Open Channel Transit Time | Multi path (Transit-Time) | Shutdown Request Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| | | | | | 8718 Seven Mile Rd., | Connor @ Mt. Olivet (weir) in Mt. Olivet | | | Weir Ultrasonic level | | Shutdown | | | | | | |
| #2-38 | 1.B.1 | 10 2 | Visits | DT-S-13 | Detroit | cemetery | 7' rect. not | Siemens LUT400 | sensor | Compound Weir | Request Required Access Request | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| | 1.B.1 | | | DT-S-14 | | NEWTP Discharge Flows | 6' | | Continuous wave doppler | Open Channel | Required | \$1,440.00 | \$2,880.00 | \$14,400.00 | | \$7,500.00 | |
| #2-40 | 1.B.1 | 12 2 | Visits | Oakwood PS | N/A | Oakwood Pump Station | N/A | N/A | (2) Magmeters; (8) ADFM | N/A | N/A Must Coordinate | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| #2-41 | 1.B.1 | 13 2 | Visits | WRRF SFE_48 | WRRF Basement | WRRF SFE 48-inch line | 4' | Accusonic 7510 IS | Open Channel Transit Time | Multi path (Transit-Time) | with WRRF Staff | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| #2-42 | 1.B.1 | 14 2 | Visits | WRRF SFE_60 | WRRF Basement | WRRF SFE 60-inch line | 5' | Accusonic 7510 IS | Open Channel Transit Time | Multi path (Transit-Time) | Must Coordinate with WRRF Staff | \$1,440.00 | \$2,880.00 | \$14,400.00 | \$3,750.00 | \$7,500.00 | \$37,500.00 |
| | | | | | 1202 Bishop, Grosse | | | Teledyne / ISCO | | | Coord. with 3 | | | | | | |
| | 1.B.1 | | | WM-S-2 WRRF_P2 | Pointe Park WRRF Pump Station 2 | Fox Creek Enclosure @ Kercheval WRRF Pump Station 2 | 14' N/A | Signature N/A | Laser (8) Magmeters | N/A | Agencies N/A | \$1,440.00 \$5,760.00 | \$2,880.00 \$11,520.00 | \$14,400.00 \$57,600.00 | | \$7,500.00 \$7,500.00 | |
| | | | | _ | | · | | | | | Must Coordinate | | | | | | |
| #2-45 | [1.B.1 | 17 2 | Visits | WRRF (8 meters) | WRRF | WRRF | N/A | Accusonic 8510 IS | Open Channel Transit Time | Iviuiti path (Transit-Time) | with WRRF Staff Subtotal - PM | \$5,760.00 | \$11,520.00 \$238,560.00 | \$57,600.00 \$1,192,800.00 | \$25,000.00 | \$50,000.00 \$382,800.00 | \$250,000.00 \$1,914,000.00 |
| | | | | | | | | | | | | | | | | | |

| | | PCI Vetrix | | etrix | | Hamlett Engineer | ring | | |
|-----|---------------------------------------|-----------------------------------|-------|----------|--------------|------------------|----------|----------------|----------------|
| | | | Hours | | | Total | | | Total |
| | | | Per | Hourly | Annual | 5-Year | Hourly | Annual | 5-Year |
| # | Description | Staff | Year | Rate | Cost | Cost | Rate | Cost | Cost |
| | Task #2 - WATF and Maintenance Meetin | ngs (2) | | | | | | | |
| 2.1 | Bi-Weekly Maintenance Meetings | Project Manager/Senior Engineer | 80 | \$135.00 | \$10,800.00 | \$54,000.00 | \$150.00 | \$12,000.00 | \$60,000.00 |
| | Wastewater Analytical Task Force | | | | | | | | |
| 2.2 | Meetings | Project Manager/Senior Engineer | 40 | \$135.00 | \$5,400.00 | \$27,000.00 | \$150.00 | \$6,000.00 | \$30,000.00 |
| | | Subtotal - Task #2 | | | \$16,200.00 | \$81,000.00 | | \$18,000.00 | \$90,000.00 |
| | Task #3 - Managed Services (6) | | | | | | | | |
| 3.1 | Managed Services | Engineer (10+ years experience) | 1070 | \$120.00 | \$128,400.00 | \$642,000.00 | \$135.00 | \$144,450.00 | \$722,250.00 |
| 3.2 | Managed Services | Engineer (5-10 years experience) | 1070 | \$100.00 | \$107,000.00 | \$535,000.00 | \$115.00 | \$123,050.00 | \$615,250.00 |
| 3.3 | Managed Services | Radio Technician | 480 | \$65.00 | \$31,200.00 | \$156,000.00 | \$123.00 | \$59,040.00 | \$295,200.00 |
| | | Instrument Technician (10+ Years | | | | | | | |
| 3.4 | Managed Services | Experience) | 3120 | \$85.00 | \$265,200.00 | \$1,326,000.00 | \$100.00 | \$312,000.00 | \$1,560,000.00 |
| | | Instrument Technician (5-10 Years | | | | | | | |
| 3.5 | Managed Services | Experience) | 3120 | \$80.00 | \$249,600.00 | \$1,248,000.00 | \$90.00 | \$280,800.00 | \$1,404,000.00 |
| 3.6 | Managed Services | Instrument Mechanic | 3120 | \$60.00 | \$187,200.00 | \$936,000.00 | \$80.00 | \$249,600.00 | \$1,248,000.00 |
| | | Subtotal - Task #3 | | | \$968,600.00 | \$4,843,000.00 | | \$1,168,940.00 | \$5,844,700.00 |
| | | Task 2 & Task 3 Total | | | \$984,800.00 | \$4,924,000.00 | | \$1,186,940.00 | \$5,934,700.00 |



Contract No./Title: 2202956/Professional and Technical Services for Sewer Meter Support

Date: 3/6/2023

| | | | | PCI Vetrix | | | Hamlett Engineering | | |
|----------------|--------------------------------------|----------|--------------|--------------|----------------|--------------|---------------------|----------------|--|
| | | | | | Total | | | Total | |
| | | Quantity | Unit | Annual | 5-Year | Unit | Annual | 5-Year | |
| # | | Required | Price | Cost | Cost | Pri ce | Cost | Cost | |
| Tasks 4 & 5 Pr | rovisional Allowance | | | | | | | | |
| | | | | | | | | | |
| | Corrective and Emergency Maintenance | | | | | | | | |
| | Provisional Allowance (Must Enter | | | | | | | | |
| #0-1 | \$125,000.00) | 1 | \$125,000.00 | \$125,000.00 | \$625,000.00 | \$125,000.00 | \$125,000.00 | \$625,000.00 | |
| | Upgrade; Replacement; Relocation and | | | | | | | | |
| | New Meter Technology Provisional | | | | | | | | |
| #0-2 | Allowance (Must Enter \$390,000.00) | 1 | \$390,000.00 | \$390,000.00 | \$1,950,000.00 | \$390,000.00 | \$390,000.00 | \$1,950,000.00 | |
| | Total Provisional Allowance | | | \$515,000.00 | \$2,575,000.00 | | \$515,000.00 | \$2,575,000.00 | |

| | | | PCI Vetrix | Hamlett Engineering | | | |
|-----------|--|----------------|-------------------|---------------------|-------------------|--|--|
| | Description of Task | Annual Cost | Total 5-Year Cost | Annual Cost | Total 5-Year Cost | | |
| 1. Sewe | r Meter Preventative Maintenance & Inspection | | | | | | |
| A. | Customer Meter Costs | \$413,760.00 | \$2,068,800.00 | \$160,850.00 | \$804,250.00 | | |
| B. | System Meter Costs | \$238,560.00 | \$1,192,800.00 | \$382,800.00 | \$1,914,000.00 | | |
| 2. WAT | F & Bi-Weekly Maintenance Meetings | \$16,200.00 | \$81,000.00 | \$18,000.00 | \$90,000.00 | | |
| 3. Staff | Augmentation / Managed Services | \$968,600.00 | \$4,843,000.00 | \$1,168,940.00 | \$5,844,700.00 | | |
| | Subtotal Tasks 1-3 | \$1,637,120.00 | \$8,185,600.00 | \$1,730,590.00 | \$8,652,950.00 | | |
| 4. Provis | sional Allowance - Corrective and Emergency Maintenance | \$125,000.00 | \$625,000.00 | \$125,000.00 | \$625,000.00 | | |
| | sional Allowance - Upgrade; Replacement; Relocation; and New 'echnology | \$390,000.00 | \$1,950,000.00 | \$390,000.00 | \$1,950,000.00 | | |
| | TOTAL CONTRACT PRICE (Tasks 1-5) | \$2,152,120.00 | \$10,760,600.00 | \$2,245,590.00 | \$11,227,950.00 | | |

| ر Approved: _ ر |)oan Salwasser | 3/10/2023 |
|--------------------|----------------|-----------|
|--------------------|----------------|-----------|