



December 21, 2022

Lisa Ramundo, Commissioner
Albany County DPW
447 New Salem Road
Voorheesville, NY 12186

**Re: Watervliet Shaker Road (CR157), Project NO.20-C558
Phase III Roadway Improvement Project
County of Albany
Bid Analysis**

Ms. Ramundo,

M.J. Engineering & Land Surveying, P.C. has reviewed the bids received on December 15, 2022 for the above-referenced contract. The bidder's information and the Engineer's Estimate have been compared and are summarized below.

Four (4) bids were received, which are tallied in order as follows:

<u>BIDDER</u>	<u>BID (\$)</u>
<u>Peter Luizzi & Bros. Contracting, Inc.</u>	<u>\$7,338,482.95</u>
<u>New Castle Paving, LLC</u>	<u>\$7,399,333.55</u>
<u>James H. Maloy, Inc.</u>	<u>\$7,575,000.00</u>
<u>Carver Construction Inc.</u>	<u>\$7,658,145.00</u>

M.J. Engineering & Land Surveying, P.C. is recommending that Peter Luizzi & Bros. Contracting, Inc. be chosen as the lowest bidder. The chosen low bidder is a responsible contractor because:

1. They have adequate expertise and experience.
2. They have no known criminal conduct in connection with government contracts.
3. They do not have any open OSHA violations regarding the personal safety of employees, government personnel or members of the public.
4. There is no record of willful non-compliance with prevailing wage laws.
5. They have no known significant labor law violations.
6. They have no known violations of the Workers Compensation Laws.
7. There is no record of criminal conduct involving violations of Environmental Conservation Law or other environmental statutes.
8. There is no record of failure to demonstrate good faith efforts to comply with Federal or State statutes and regulations regarding efforts to solicit and utilize Minority, Women, or Disadvantaged Business Enterprises on government contracts.
9. There is no record of failure to comply with State and federal equal opportunity statutes and regulations.
10. They have not submitted a bid which is so much lower than the estimate that it appears performance at that price is unlikely or impossible.



11. There is not any other cause of so serious or compelling a nature that it raises questions about the present responsibility of a contractor/vendor.

The low bid contains individual quantity bids which are 25 percent or more over the engineer's estimate and exceed \$10,000 total cost, as summarized below:

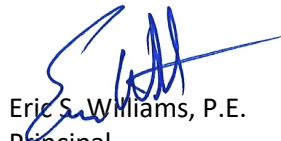
Item No.	Description	Explanation
201.07	Clearing and Grubbing	Low production, close proximity to project limits.
203.02	Unclassified Excavation and Disposal	Trucking cost to remove from site.
203.07	Select Granular Fill	Increase in material costs.
209.1801	Rolled Erosion Control Product, Class I Type A, Short Term	Due to stage construction, use will be staggered.
604.301772	Rectangular Drainage Structure Type Q for Cast Iron F2 Frame	Increase in material costs/delivery.
604.302016	Rectangular Drainage Structure Type T for #16 Welded Frame	Increase in material costs/delivery.
604.4048	Round Precast Concrete Manhole Type 48	Increase in material costs/delivery.
605.1701	Optional Underdrain Pipe, 4 Inch Diameter	Labor intensive production.
608.72225108	Non-security Bollard-Fixed in Ground, With Lighting, Width Over 3 Inches to 5 Inches, Height Over 30 Inches to 36 Inches	Specialty item of work.
619.080102	Remove Pavement Marking Stripes, Epoxy Paint	Multiple mobilizations for staging.
621.03	Cleaning Closed Drainage Systems	Small quantity throughout the project.
637.11	Engineer's Field Office – Type 1	Rates for rentals have increased.
655.0705	Cast Frame F2, Unmountable Curb Box CU2 & Reticuline Grate G2	Increase in material costs/delivery.
663.160606	Tapping Sleeve, Valve & Valve Box Assembly, 6"X6"	Small quantities in the project.
670.2602	Rigid Plastic Conduit, 2"	Increase in material costs/delivery.
670.3020	Pullboxes 10.1 Cubic Feet to 15 Cubic Feet, Inside Volume (Lighting)	Increase in material costs/delivery.
670.7006	Single Conductor Cable, Number 10 Gauge	Increase in material costs/delivery.
670.7501	Ground Wire No. 6 AWG	Increase in material costs/delivery.
680.80310008	Furnish and Install Microcomputer (Model 2070) Complete with Stretch-Type Cabinet	Increase in material costs/delivery.
680.8120	Traffic Signal Disconnect Hanger	Increase in material costs/delivery.
680.82208304	Solar Powered Flashing Beacon Assembly-8in Beacon	Increase in material costs.
685.11	White Epoxy Reflectorized Pavement Stripes – 20 MILS	Increase due to availability of paint.



Item No.	Description	Explanation
685.12	Yellow Epoxy Reflectorized Pavement Stripes – 20 MILS	Increase due to availability of paint.

The recommended low bid is balanced and complete. Based on the figures analyzed, M.J. Engineering and Land Surveying, P.C. concludes that the variations in bid prices as submitted by Peter Luizzi & Bros. Contracting, Inc. are justifiable.

Sincerely,



Eric S. Williams, P.E.
Principal

Attachments:
Bid Verification

No permanent employment or employment for any term is intended or can be implied by this offer. All employees of M.J. Engineering and Land Surveying, P.C., are “at will,” which means that they are employed for a term of indefinite duration and either M.J. Engineering or the employee may terminate the employment relationship at any time, for any reason, with or without cause and with or without notice.

Bid Verification Sheet

M.J. Engineering & Land Surveying, P.C.

Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project

12/21/2022

ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
201.06	CLEARING AND GRUBBING	LS	1	\$ 15,000.00	\$ 15,000.00
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	28,830	\$ 20.00	\$ 576,600.00
203.03	EMBANKMENT IN PLACE	CY	5,830	\$ 25.00	\$ 145,750.00
203.07	SELECT GRANULAR FILL	CY	2,230	\$ 20.00	\$ 44,600.00
203.20	SELECT GRANULAR SUBGRADE	CY	1,940	\$ 40.00	\$ 77,600.00
203.25	SAND BACKFILL	CY	100	\$ 30.00	\$ 3,000.00
203.24010017	SHOULDER BACKUP MATERIAL	TON	100	\$ 100.00	\$ 10,000.00
204.01	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	CY	11	\$ 250.00	\$ 2,750.00
206.0201	TRENCH AND CULVERT EXCAVATION	CY	3,730	\$ 40.00	\$ 149,200.00
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	5,603	\$ 25.00	\$ 140,075.00
206.05	TEST PIT EXCAVATION	EACH	20	\$ 650.00	\$ 13,000.00
207.24	GEOTEXTILE STABILIZATION	SY	16,230	\$ 2.50	\$ 40,575.00
209.100101	MULCH - TEMPORARY	SY	31,740	\$ 1.00	\$ 31,740.00
209.1003	SEED AND MULCH - TEMPORARY	SY	12,700	\$ 1.00	\$ 12,700.00
209.110101	CHECK DAM (DITCH BOTTOM WIDTH 0.0 TO 3'), STONE - TEMPORARY	EACH	28	\$ 350.00	\$ 9,800.00
209.13	SILT FENCE-TEMPORARY	LF	3,300	\$ 10.00	\$ 33,000.00
209.1801	ROLLED EROSION CONTROL PRODUCT, CLASS I TYPE A, SHORT TERM	SY	4,990	\$ 1.00	\$ 4,990.00
209.2301	SEDIMENT FILTER LOG-TEMPORARY,12"	LF	900	\$ 9.00	\$ 8,100.00
304.12	SUBBASE COURSE, TYPE 2	CY	8,500	\$ 60.00	\$ 510,000.00
404.018901	TRUING & LEVELING F9, WMA, 80 SERIES COMPACTION	TON	210	\$ 105.00	\$ 22,050.00
404.126201	12.5 F2 TOP COURSE WMA, 60 SERIES COMPACTION	TON	3,860	\$ 110.00	\$ 424,600.00
404.196901	19 F9 BINDER COURSE WMA, 60 SERIES COMPACTION	TON	2,770	\$ 110.00	\$ 304,700.00
404.256901	25 F9 BINDER COURSE WMA, 60 SERIES COMPACTION	TON	3,650	\$ 110.00	\$ 401,500.00
407.0103	STRAIGHT TACK COAT	GAL	2,850	\$ 4.00	\$ 11,400.00
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	22,519	\$ 0.50	\$ 11,259.50
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	18,360	\$ 3.75	\$ 68,850.00
552.17	SHIELDS AND SHORING	SF	8,630	\$ 0.50	\$ 4,315.00
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	21	\$ 850.00	\$ 17,850.00
603.171116	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE	EACH	6	\$ 300.00	\$ 1,800.00
603.171216	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 18 INCH DIAMETER, 16 GAUGE	EACH	4	\$ 350.00	\$ 1,400.00
603.171316	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 21 INCH DIAMETER, 16 GAUGE	EACH	1	\$ 400.00	\$ 400.00
603.7301	REINFORCED CONCRETE PIPE END SECTIONS 12 INCHDIAMETER	EACH	3	\$ 1,500.00	\$ 4,500.00
603.7302	REINFORCED CONCRETE PIPE END SECTIONS 15 INCHDIAMETER	EACH	1	\$ 2,000.00	\$ 2,000.00
603.7401	REINFORCED CONCRETE PIPE, CLASS II, 12 INCH DIAMETER	LF	160	\$ 100.00	\$ 16,000.00
603.7402	REINFORCED CONCRETE PIPE, CLASS II, 15 INCH DIAMETER	LF	449	\$ 120.00	\$ 53,880.00
603.7403	REINFORCED CONCRETE PIPE, CLASS II, 18 INCH DIAMETER	LF	47	\$ 150.00	\$ 7,050.00
603.7405	REINFORCED CONCRETE PIPE, CLASS II, 24 INCH DIAMETER	LF	380	\$ 180.00	\$ 68,400.00
603.77	CONCRETE COLLARS	EACH	6	\$ 2,000.00	\$ 12,000.00
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 12 INCH DIAMETER	LF	118	\$ 50.00	\$ 5,900.00
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 15 INCH DIAMETER	LF	1,741	\$ 65.00	\$ 113,165.00
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 18 INCH DIAMETER	LF	751	\$ 75.00	\$ 56,325.00
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 24 INCH DIAMETER	LF	229	\$ 85.00	\$ 19,465.00
603.9836	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 36 INCH DIAMETER	LF	6	\$ 100.00	\$ 600.00
604.070101	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	3	\$ 750.00	\$ 2,250.00
604.300103	RECTANGULAR DRAINAGE STRUCTURE (TYPE A) FOR #3 WELDED FRAME	LF	13	\$ 750.00	\$ 9,750.00
604.300671	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F1 FRAME	LF	21	\$ 750.00	\$ 15,750.00
604.300771	RECTANGULAR DRAINAGE STRUCTURE TYPE G FOR CAST IRON F1 FRAME	LF	7	\$ 850.00	\$ 5,950.00
604.301772	RECTANGULAR DRAINAGE STRUCTURE TYPE Q FOR CAST IRON F2 FRAME	LF	78	\$ 500.00	\$ 39,000.00
604.302016	RECTANGULAR DRAINAGE STRUCTURE TYPE T FOR #16 WELDED FRAME	LF	23	\$ 500.00	\$ 11,500.00
604.4048	ROUND PRECAST CONCRETE MANHOLE TYPE 48	LF	29	\$ 500.00	\$ 14,500.00
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60	LF	17	\$ 750.00	\$ 12,750.00
604.4072	ROUND PRECAST CONCRETE MANHOLE TYPE 72	LF	17	\$ 1,250.00	\$ 21,250.00
604.4084	ROUND PRECAST CONCRETE MANHOLE TYPE 84	LF	16	\$ 1,600.00	\$ 25,600.00
605.0901	UNDERDRAIN FILTER TYPE 1	CY	290	\$ 65.00	\$ 18,850.00
605.1701	OPTIONAL UNDERDRAIN PIPE, 4 INCH DIAMETER	LF	4,310	\$ 3.00	\$ 12,930.00
606.10	BOX BEAM GUIDE RAILING	LF	310	\$ 55.00	\$ 17,050.00
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	4	\$ 2,500.00	\$ 10,000.00
606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	LF	470	\$ 5.00	\$ 2,350.00

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 75,000.00	\$ 75,000.00
\$ 26.50	\$ 763,995.00
\$ 30.00	\$ 174,900.00
\$ 32.00	\$ 71,360.00
\$ 31.00	\$ 60,140.00
\$ 55.00	\$ 5,500.00
\$ 60.00	\$ 6,000.00
\$ 390.00	\$ 4,290.00
\$ 24.00	\$ 89,520.00
\$ 21.00	\$ 117,663.00
\$ 850.00	\$ 17,000.00
\$ 2.20	\$ 35,706.00
\$ 0.50	\$ 15,870.00
\$ 0.60	\$ 7,620.00
\$ 250.00	\$ 7,000.00
\$ 3.90	\$ 12,870.00
\$ 3.60	\$ 17,964.00
\$ 10.00	\$ 9,000.00
\$ 62.00	\$ 527,000.00
\$ 116.00	\$ 24,360.00
\$ 93.00	\$ 358,980.00
\$ 92.00	\$ 254,840.00
\$ 86.00	\$ 313,900.00
\$ 7.30	\$ 20,805.00
\$ 0.75	\$ 16,889.25
\$ 3.00	\$ 55,080.00
\$ 1.00	\$ 8,630.00
\$ 460.00	\$ 9,660.00
\$ 450.00	\$ 2,700.00
\$ 460.00	\$ 1,840.00
\$ 500.00	\$ 500.00
\$ 2,900.00	\$ 8,700.00
\$ 3,000.00	\$ 3,000.00
\$ 105.00	\$ 16,800.00
\$ 107.00	\$ 48,043.00
\$ 125.00	\$ 5,875.00
\$ 150.00	\$ 57,000.00
\$ 1,300.00	\$ 7,800.00
\$ 65.00	\$ 7,670.00
\$ 70.00	\$ 121,870.00
\$ 83.00	\$ 62,333.00
\$ 125.00	\$ 28,625.00
\$ 500.00	\$ 3,000.00
\$ 1,400.00	\$ 4,200.00
\$ 1,050.00	\$ 13,650.00
\$ 1,100.00	\$ 23,100.00
\$ 1,140.00	\$ 7,980.00
\$ 1,050.00	\$ 81,900.00
\$ 1,000.00	\$ 23,000.00
\$ 1,000.00	\$ 29,000.00
\$ 1,100.00	\$ 18,700.00
\$ 1,200.00	\$ 20,400.00
\$ 1,800.00	\$ 28,800.00
\$ 85.00	\$ 24,650.00
\$ 7.50	\$ 32,325.00
\$ 60.00	\$ 18,600.00
\$ 3,700.00	\$ 14,800.00
\$ 7.00	\$ 3,290.00

New Castle Paving, LLC	
Unit Price	Total Price
\$ 77,861.00	\$ 77,861.00
\$ 22.75	\$ 655,882.50
\$ 21.00	\$ 122,430.00
\$ 28.00	\$ 62,440.00
\$ 38.00	\$ 73,720.00
\$ 52.50	\$ 5,250.00
\$ 68.00	\$ 6,800.00
\$ 485.00	\$ 5,335.00
\$ 18.00	\$ 67,140.00
\$ 20.50	\$ 114,861.50
\$ 1,000.00	\$ 20,000.00
\$ 2.50	\$ 40,575.00
\$ 0.75	\$ 23,805.00
\$ 1.00	\$ 12,700.00
\$ 450.00	\$ 12,600.00
\$ 6.25	\$ 20,625.00
\$ 3.25	\$ 16,217.50
\$ 13.50	\$ 12,150.00
\$ 66.00	\$ 561,000.00
\$ 125.00	\$ 26,250.00
\$ 83.25	\$ 321,345.00
\$ 86.00	\$ 238,220.00
\$ 85.00	\$ 310,250.00
\$ 10.00	\$ 28,500.00
\$ 0.80	\$ 18,015.20
\$ 3.50	\$ 64,260.00
\$ 0.01	\$ 86.30
\$ 720.00	\$ 15,120.00
\$ 275.00	\$ 1,650.00
\$ 315.00	\$ 1,260.00
\$ 330.00	\$ 330.00
\$ 1,730.00	\$ 5,190.00
\$ 1,750.00	\$ 1,750.00
\$ 205.00	\$ 32,800.00
\$ 106.00	\$ 47,594.00
\$ 162.00	\$ 7,614.00
\$ 141.00	\$ 53,580.00
\$ 1,600.00	\$ 9,600.00
\$ 101.00	\$ 11,918.00
\$ 104.00	\$ 181,064.00
\$ 114.00	\$ 85,614.00
\$ 132.00	\$ 30,228.00
\$ 920.00	\$ 5,520.00
\$ 1,200.00	\$ 3,600.00
\$ 960.00	\$ 12,480.00
\$ 1,100.00	\$ 23,100.00
\$ 955.00	\$ 6,685.00
\$ 920.00	\$ 71,760.00
\$ 900.00	\$ 20,700.00
\$ 841.00	\$ 24,389.00
\$ 962.00	\$ 16,354.00
\$ 1,750.00	\$ 29,750.00
\$ 2,065.00	\$ 33,040.00
\$ 130.00	\$ 37,700.00
\$ 11.50	\$ 49,565.00
\$ 52.00	\$ 16,120.00
\$ 3,213.00	\$ 12,852.00
\$ 6.00	\$ 2,820.00

James H. Maloy Inc.	
Unit Price	Total Price
\$ 56,000.00	\$ 56,000.00
\$ 24.00	\$ 691,920.00
\$ 9.00	\$ 52,470.00
\$ 110.00	\$ 245,300.00
\$ 40.00	\$ 77,600.00
\$ 100.00	\$ 10,000.00
\$ 80.00	\$ 8,000.00
\$ 150.00	\$ 1,650.00
\$ 87.00	\$ 324,510.00
\$ 21.00	\$ 117,663.00
\$ 800.00	\$ 16,000.00
\$ 2.40	\$ 38,952.00
\$ 1.00	\$ 31,740.00
\$ 1.10	\$ 13,970.00
\$ 420.00	\$ 11,760.00
\$ 7.00	\$ 23,100.00
\$ 2.75	\$ 13,722.50
\$ 12.00	\$ 10,800.00
\$ 75.00	\$ 637,500.00
\$ 132.00	\$ 27,720.00
\$ 98.00	\$ 378,280.00
\$ 125.00	\$ 346,250.00
\$ 115.00	\$ 419,750.00
\$ 12.00	\$ 34,200.00
\$ 0.70	\$ 15,763.30
\$ 3.00	\$ 55,080.00
\$ 0.80	\$ 6,904.00
\$ 400.00	\$ 8,400.00
\$ 1,000.00	\$ 6,000.00
\$ 1,100.00	\$ 4,400.00
\$ 1,300.00	\$ 1,300.00
\$ 2,700.00	\$ 8,100.00
\$ 2,900.00	\$ 2,900.00
\$ 90.00	\$ 14,400.00
\$ 93.00	\$ 41,757.00
\$ 107.00	\$ 5,029.00
\$ 120.00	\$ 45,600.00
\$ 1,400.00	\$ 8,400.00
\$ 42.00	\$ 4,956.00
\$ 45.00	\$ 78,345.00
\$ 55.00	\$ 41,305.00
\$ 70.00	\$ 16,030.00
\$ 370.00	\$ 2,220.00
\$ 1,000.00	\$ 3,000.00
\$ 690.00	\$ 8,970.00
\$ 825.00	\$ 17,325.00
\$ 770.00	\$ 5,390.00
\$ 615.00	\$ 47,970.00
\$ 605.00	\$ 13,915.00
\$ 580.00	\$ 16,820.00
\$ 685.00	\$ 11,645.00
\$ 780.00	\$ 13,260.00
\$ 1,100.00	\$ 17,600.00
\$ 90.00	\$ 26,100.00
\$ 2.25	\$ 9,697.50
\$ 52.00	\$ 16,120.00
\$ 3,200.00	\$ 12,800.00
\$ 6.00	\$ 2,820.00

Carver Construction Inc.	
Unit Price	Total Price
\$ 75,000.00	\$ 75,000.00
\$ 27.50	\$ 792,825.00
\$ 9.00	\$ 52,470.00
\$ 33.00	\$ 73,590.00
\$ 27.00	\$ 52,380.00
\$ 74.50	\$ 7,450.00
\$ 40.00	\$ 4,000.00
\$ 450.00	\$ 4,950.00
\$ 30.00	\$ 111,900.00
\$ 21.00	\$ 117,663.00
\$ 950.00	\$ 19,000.00
\$ 1.50	\$ 24,345.00
\$ 1.00	\$ 31,740.00
\$ 1.00	\$ 12,700.00
\$ 1,875.00	\$ 52,500.00
\$ 5.50	\$ 18,150.00
\$ 9.00	\$ 44,910.00
\$ 12.00	\$ 10,800.00
\$ 63.00	\$ 535,500.00
\$ 135.00	\$ 28,350.00
\$ 110.00	\$ 424,600.00
\$ 107.00	\$ 296,390.00
\$ 100.00	\$ 365,000.00
\$ 8.75	\$ 24,937.50
\$ 1.50	\$ 33,778.50
\$ 4.50	\$ 82,620.00
\$ 0.01	\$ 86.30
\$ 450.00	\$ 9,450.00
\$ 560.00	\$ 3,360.00
\$ 595.00	\$ 2,380.00
\$ 635.00	\$ 635.00
\$ 1,450.00	\$ 4,350.00
\$ 1,580.00	\$ 1,580.00
\$ 134.00	\$ 21,440.00
\$ 136.00	\$ 61,064.00
\$ 150.00	\$ 7,050.00
\$ 175.00	\$ 66,500.00
\$ 1,500.00	\$ 9,000.00
\$ 72.50	\$ 8,555.00
\$ 75.50	\$ 131,445.50
\$ 93.00	\$ 69,843.00
\$ 96.00	\$ 21,984.00
\$ 498.00	\$ 2,988.00
\$ 1,250.00	\$ 3,750.00
\$ 920.00	\$ 11,960.00
\$ 850.00	\$ 17,850.00
\$ 720.00	\$ 5,040.00
\$ 650.00	\$ 50,700.00
\$ 720.00	\$ 16,560.00
\$ 590.00	\$ 17,110.00
\$ 790.00	\$ 13,430.00
\$ 885.00	\$ 15,045.00
\$ 1,355.00	\$ 21,680.00
\$ 110.00	\$ 31,900.00
\$ 12.00	\$ 51,720.00
\$ 55.00	\$ 17,050.00
\$ 3,350.00	\$ 13,400.00
\$ 7.00	\$ 3,290.00

Bid Verification Sheet

M.J. Engineering & Land Surveying, P.C.

Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project

12/21/2022

ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
607.08040010	WOOD FENCE - 4 FEET - 0 INCHES HEIGHT	LF	190	\$ 60.00	\$ 11,400.00
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	660	\$ 5.00	\$ 3,300.00
607.97000008	REMOVE AND RESET EXISTING FENCE	LF	45	\$ 30.00	\$ 1,350.00
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY	155	\$ 840.00	\$ 130,200.00
608.01020005	COLORLED AND IMPRINTED PORTLAND CEMENT CONCRETE SIDEWALK	CY	120	\$ 1,300.00	\$ 156,000.00
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS,AND VEGETATION CONTROL STRIPS	TON	1,000	\$ 150.00	\$ 150,000.00
608.03040008	REMOVE, STORE AND RESET CONCRETE BLOCK PAVERS	SY	10	\$ 300.00	\$ 3,000.00
608.21000003	CAST IRON EMBEDDED DETECTABLE WARNING UNITS	SY	30	\$ 450.00	\$ 13,500.00
608.72225108	NON-SECURITY BOLLARD-FIXED IN GROUND, WITH LIGHTING, WIDTH OVER 3 INCHES TO 5 INCHES, HEIGHT OVER 30 INCHES TO 36 INCHES	EACH	24	\$ 900.00	\$ 21,600.00
609.0401	CAST-IN-PLACE CONCRETE CURB TYPE VF6	LF	5,190	\$ 40.00	\$ 207,600.00
610.0501	FERTILIZER	LB	343	\$ 4.00	\$ 1,372.00
610.0701	MYCORRHIZAL FUNGI	LB	423	\$ 20.00	\$ 8,460.00
610.1402	TOPSOIL - ROADSIDE	CY	700	\$ 80.00	\$ 56,000.00
610.1403	TOPSOIL - LAWNS	CY	712	\$ 150.00	\$ 106,800.00
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	6,300	\$ 2.50	\$ 15,750.00
610.1602	TURF ESTABLISHMENT - LAWNS	SY	6,410	\$ 3.00	\$ 19,230.00
610.19	WATERING VEGETATION	MGAL	720	\$ 2.00	\$ 1,440.00
611.0151	PLANTING - MAJOR DECIDUOUS TREES - 2 INCH CALIPER BALL& BURLAP, FIELD POTTED OR FIELD BOXED	EACH	8	\$ 700.00	\$ 5,600.00
611.0161	PLANTING - MAJOR DECIDUOUS TREES - 2 1/2 INCH CALIPER BALL& BURLAP, FIELD POTTED OR FIELD BOXED	EACH	5	\$ 800.00	\$ 4,000.00
611.0171	PLANTING - MAJOR DECIDUOUS TREES - 3 INCH CALIPER BALL& BURLAP, FIELD POTTED OR FIELD BOXED	EACH	13	\$ 1,200.00	\$ 15,600.00
611.0241	PLANTING - MINOR DECIDUOUS TREES - 5 FOOT HEIGHT BALL & BURLAP, FIELD POTTED OR FIELD BOXED	EACH	4	\$ 300.00	\$ 1,200.00
611.0391	PLANTING - CONIFEROUS TREES - 9 FOOT HEIGHT BALL & BURLAP, FIELD POTTED OR FIELD BOXED	EACH	1	\$ 1,200.00	\$ 1,200.00
611.0412	PLANTING - DECIDUOUS SHRUBS - AS SPECIFIED CONTAINER OR BOXGROWN	EACH	231	\$ 100.00	\$ 23,100.00
611.0452	PLANTING - DECIDUOUS SHRUBS - 3 FOOT HEIGHT/SPREADCONTAINER OR BOX GROWN	EACH	108	\$ 200.00	\$ 21,600.00
611.0512	PLANTING - EVERGREEN SHRUBS - AS SPECIFIED CONTAINER OR BOXGROWN	EACH	26	\$ 100.00	\$ 2,600.00
611.17	PORTABLE DRIP IRRIGATION SYSTEM	EACH	31	\$ 55.00	\$ 1,705.00
611.18	REMOVAL OF PORTABLE DRIP IRRIGATION SYSTEM	EACH	31	\$ 15.00	\$ 465.00
611.19	POST-PLANTING CARE	EACH	396	\$ 40.00	\$ 15,840.00
614.060301	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREASTHEIGHT - STUMPS CUT TO ABOVE GRADE	EACH	7	\$ 500.00	\$ 3,500.00
614.060401	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREASTHEIGHT - STUMPS CUT TO ABOVE GRADE	EACH	1	\$ 600.00	\$ 600.00
614.060203	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT TO BELOW GRADE	EACH	5	\$ 250.00	\$ 1,250.00
614.060204	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	EACH	1	\$ 500.00	\$ 500.00
614.060304	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREASTHEIGHT - STUMPS GRUBBED	EACH	2	\$ 600.00	\$ 1,200.00
614.060404	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREASTHEIGHT - STUMPS GRUBBED	EACH	1	\$ 750.00	\$ 750.00
615.02050124	REMOVE, STORE AND RESET BOULDER, TYPE 01	EACH	5	\$ 250.00	\$ 1,250.00
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	\$ 250,000.00	\$ 250,000.00
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	12	\$ 150.00	\$ 1,800.00
619.080102	REMOVE PAVEMENT MARKING STRIPES, EPOXY PAINT	LF	23,280	\$ 1.50	\$ 34,920.00
619.100101	INTERIM PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT)	LF	43,530	\$ 0.50	\$ 21,765.00
619.110712	(PVMS) LARGE SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENTSPECIFIED, CELLULAR COMMUNICATIONS	EACH	2	\$ 10,000.00	\$ 20,000.00
619.11071201	(PVMS) LARGE SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENTSPECIFIED, CELLULAR COMMUNICATIONS	EACH	3	\$ 30,000.00	\$ 90,000.00
619.27	MAILBOXES	EACH	9	\$ 250.00	\$ 2,250.00
620.0802	BEDDING MATERIAL, TYPE 2	CY	15	\$ 100.00	\$ 1,500.00
620.03	STONE FILLING (LIGHT)	CY	35	\$ 110.00	\$ 3,850.00
621.03	CLEANING CLOSED DRAINAGE SYSTEMS	LF	1,790	\$ 5.00	\$ 8,950.00
621.04	CLEANING DRAINAGE STRUCTURES	EACH	21	\$ 300.00	\$ 6,300.00
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	25	\$ 165.00	\$ 4,125.00
624.01	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS	SF	3,770	\$ 20.00	\$ 75,400.00
625.01	SURVEY OPERATIONS	LS	1	\$ 50,000.00	\$ 50,000.00
625.04	CONCRETE RIGHT-OF-WAY MARKER TYPE L (LOW)	EACH	7	\$ 450.00	\$ 3,150.00
627.50140008	CUTTING PAVEMENT	LF	5,090	\$ 2.50	\$ 12,725.00
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	18	\$ 2,000.00	\$ 36,000.00
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 32 SF, WITH Z-BARS	SF	300	\$ 45.00	\$ 13,500.00
645.73000001	ORNAMENTAL SIGN	EACH	2	\$ 5,000.00	\$ 10,000.00
645.81	TYPE A SIGN POSTS	EACH	49	\$ 200.00	\$ 9,800.00
646.21	REFERENCE MARKER PANEL	EACH	6	\$ 40.00	\$ 240.00
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	EACH	9	\$ 40.00	\$ 360.00
646.32	STEEL POST, 2.0 LB/FT	EACH	14	\$ 75.00	\$ 1,050.00

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 75.00	\$ 14,250.00
\$ 5.00	\$ 3,300.00
\$ 81.00	\$ 3,645.00
\$ 770.00	\$ 119,350.00
\$ 1,200.00	\$ 144,000.00
\$ 106.00	\$ 106,000.00
\$ 370.00	\$ 3,700.00
\$ 380.00	\$ 11,400.00
\$ 3,600.00	\$ 86,400.00
\$ 35.00	\$ 181,650.00
\$ 5.70	\$ 1,955.10
\$ 23.00	\$ 9,729.00
\$ 55.00	\$ 38,500.00
\$ 55.00	\$ 39,160.00
\$ 1.40	\$ 8,820.00
\$ 1.40	\$ 8,974.00
\$ 3.00	\$ 2,160.00
\$ 760.00	\$ 6,080.00
\$ 850.00	\$ 4,250.00
\$ 950.00	\$ 12,350.00
\$ 350.00	\$ 1,400.00
\$ 850.00	\$ 850.00
\$ 74.00	\$ 17,094.00
\$ 85.00	\$ 9,180.00
\$ 115.00	\$ 2,990.00
\$ 56.00	\$ 1,736.00
\$ 11.50	\$ 356.50
\$ 5.50	\$ 2,178.00
\$ 1,200.00	\$ 8,400.00
\$ 1,600.00	\$ 1,600.00
\$ 850.00	\$ 4,250.00
\$ 1,000.00	\$ 1,000.00
\$ 1,350.00	\$ 2,700.00
\$ 1,700.00	\$ 1,700.00
\$ 240.00	\$ 1,200.00
\$ 254,000.00	\$ 254,000.00
\$ 210.00	\$ 2,520.00
\$ 2.00	\$ 46,560.00
\$ 0.35	\$ 15,235.50
\$ 14,000.00	\$ 28,000.00
\$ 25,400.00	\$ 76,200.00
\$ 170.00	\$ 1,530.00
\$ 55.00	\$ 825.00
\$ 145.00	\$ 5,075.00
\$ 11.50	\$ 20,585.00
\$ 235.00	\$ 4,935.00
\$ 70.00	\$ 3,250.00
\$ 14.00	\$ 52,780.00
\$ 50,000.00	\$ 50,000.00
\$ 450.00	\$ 3,150.00
\$ 3.20	\$ 16,288.00
\$ 2,600.00	\$ 46,800.00
\$ 60.00	\$ 18,000.00
\$ 2,900.00	\$ 5,800.00
\$ 235.00	\$ 11,515.00
\$ 40.00	\$ 240.00
\$ 21.00	\$ 189.00
\$ 94.00	\$ 1,316.00

New Castle Paving, LLC	
Unit Price	Total Price
\$ 50.20	\$ 9,538.00
\$ 6.00	\$ 3,960.00
\$ 46.00	\$ 2,070.00
\$ 624.00	\$ 96,720.00
\$ 1,160.00	\$ 139,200.00
\$ 180.00	\$ 180,000.00
\$ 480.00	\$ 4,800.00
\$ 365.00	\$ 10,950.00
\$ 3,800.00	\$ 91,200.00
\$ 19.00	\$ 98,610.00
\$ 8.15	\$ 2,795.45
\$ 15.30	\$ 6,471.90
\$ 64.00	\$ 44,800.00
\$ 104.00	\$ 74,048.00
\$ 1.20	\$ 7,560.00
\$ 1.20	\$ 7,692.00
\$ 20.40	\$ 14,688.00
\$ 500.00	\$ 4,000.00
\$ 510.00	\$ 2,550.00
\$ 535.00	\$ 6,955.00
\$ 357.00	\$ 1,428.00
\$ 714.00	\$ 714.00
\$ 66.00	\$ 15,246.00
\$ 87.00	\$ 9,396.00
\$ 117.00	\$ 3,042.00
\$ 51.00	\$ 1,581.00
\$ 20.50	\$ 635.50
\$ 18.00	\$ 7,128.00
\$ 750.00	\$ 5,250.00
\$ 1,200.00	\$ 1,200.00
\$ 500.00	\$ 2,500.00
\$ 600.00	\$ 600.00
\$ 800.00	\$ 1,600.00
\$ 1,400.00	\$ 1,400.00
\$ 400.00	\$ 2,000.00
\$ 414,000.00	\$ 414,000.00
\$ 115.00	\$ 1,380.00
\$ 1.83	\$ 42,602.40
\$ 0.30	\$ 13,059.00
\$ 13,483.00	\$ 26,966.00
\$ 21,465.00	\$ 64,395.00
\$ 350.00	\$ 3,150.00
\$ 155.00	\$ 2,325.00
\$ 200.00	\$ 7,000.00
\$ 11.00	\$ 19,690.00
\$ 275.00	\$ 5,775.00
\$ 130.00	\$ 3,250.00
\$ 7.90	\$ 29,783.00
\$ 112,000.00	\$ 112,000.00
\$ 620.00	\$ 4,340.00
\$ 5.75	\$ 29,267.50
\$ 2,500.00	\$ 45,000.00
\$ 52.50	\$ 15,750.00
\$ 7,135.00	\$ 14,270.00
\$ 204.00	\$ 9,996.00
\$ 36.00	\$ 216.00
\$ 18.00	\$ 162.00
\$ 81.00	\$ 1,134.00

James H. Maloy Inc.	
Unit Price	Total Price
\$ 100.00	\$ 19,000.00
\$ 7.50	\$ 4,950.00
\$ 20.00	\$ 900.00
\$ 670.00	\$ 103,850.00
\$ 1,200.00	\$ 144,000.00
\$ 150.00	\$ 150,000.00
\$ 200.00	\$ 2,000.00
\$ 400.00	\$ 12,000.00
\$ 3,300.00	\$ 79,200.00
\$ 23.00	\$ 119,370.00
\$ 9.00	\$ 3,087.00
\$ 16.00	\$ 6,768.00
\$ 60.00	\$ 42,000.00
\$ 80.00	\$ 56,960.00
\$ 1.25	\$ 7,875.00
\$ 1.25	\$ 8,012.50
\$ 22.00	\$ 15,840.00
\$ 500.00	\$ 4,000.00
\$ 525.00	\$ 2,625.00
\$ 550.00	\$ 7,150.00
\$ 370.00	\$ 1,480.00
\$ 725.00	\$ 725.00
\$ 68.00	\$ 15,708.00
\$ 87.00	\$ 9,396.00
\$ 120.00	\$ 3,120.00
\$ 52.00	\$ 1,612.00
\$ 21.00	\$ 651.00
\$ 19.00	\$ 7,524.00
\$ 700.00	\$ 4,900.00
\$ 1,200.00	\$ 1,200.00
\$ 1,000.00	\$ 5,000.00
\$ 2,000.00	\$ 2,000.00
\$ 1,400.00	\$ 2,800.00
\$ 2,300.00	\$ 2,300.00
\$ 100.00	\$ 500.00
\$ 132,211.70	\$ 132,211.70
\$ 200.00	\$ 2,400.00
\$ 2.00	\$ 46,560.00
\$ 0.30	\$ 15,235.50
\$ 11,000.00	\$ 22,000.00
\$ 22,000.00	\$ 66,000.00
\$ 250.00	\$ 2,250.00
\$ 110.00	\$ 1,650.00
\$ 100.00	\$ 3,500.00
\$ 10.00	\$ 17,900.00
\$ 575.00	\$ 12,075.00
\$ 155.00	\$ 3,875.00
\$ 10.00	\$ 37,700.00
\$ 50,000.00	\$ 50,000.00
\$ 700.00	\$ 4,900.00
\$ 6.50	\$ 33,085.00
\$ 4,500.00	\$ 81,000.00
\$ 52.00	\$ 15,600.00
\$ 5,000.00	\$ 10,000.00
\$ 205.00	\$ 10,045.00
\$ 37.00	\$ 222.00
\$ 18.00	\$ 162.00
\$ 83.00	\$ 1,162.00

Carver Construction Inc.	
Unit Price	Total Price
\$ 55.00	\$ 10,450.00
\$ 6.50	\$ 4,290.00
\$ 220.00	\$ 9,900.00
\$ 800.00	\$ 124,000.00
\$ 1,450.00	\$ 174,000.00
\$ 175.00	\$ 175,000.00
\$ 275.00	\$ 2,750.00
\$ 400.00	\$ 12,000.00
\$ 3,750.00	\$ 90,000.00
\$ 34.00	\$ 176,460.00
\$ 6.00	\$ 2,058.00
\$ 24.00	\$ 10,152.00
\$ 115.00	\$ 80,500.00
\$ 119.00	\$ 84,728.00
\$ 1.50	\$ 9,450.00
\$ 1.50	\$ 9,615.00
\$ 3.50	\$ 2,520.00
\$ 750.00	\$ 6,000.00
\$ 850.00	\$ 4,250.00
\$ 950.00	\$ 12,350.00
\$ 350.00	\$ 1,400.00
\$ 850.00	\$ 850.00
\$ 75.00	\$ 17,325.00
\$ 85.00	\$ 9,180.00
\$ 110.00	\$ 2,860.00
\$ 55.00	\$ 1,705.00
\$ 11.00	\$ 341.00
\$ 5.50	\$ 2,178.00
\$ 1,575.00	\$ 11,025.00
\$ 1,850.00	\$ 1,850.00
\$ 1,100.00	\$ 5,500.00
\$ 1,100.00	\$ 1,100.00
\$ 1,600.00	\$ 3,200.00
\$ 1,800.00	\$ 1,800.00
\$ 700.00	\$ 3,500.00
\$ 196,706.45	\$ 196,706.45
\$ 110.00	\$ 1,320.00
\$ 2.00	\$ 46,560.00
\$ 0.35	\$ 15,235.50
\$ 2,500.00	\$ 5,000.00
\$ 27,950.00	\$ 83,850.00
\$ 800.00	\$ 7,200.00
\$ 100.00	\$ 1,500.00
\$ 145.00	\$ 5,075.00
\$ 9.50	\$ 17,005.00
\$ 575.00	\$ 12,075.00
\$ 120.00	\$ 3,000.00
\$ 10.50	\$ 39,585.00
\$ 45,000.00	\$ 45,000.00
\$ 600.00	\$ 4,200.00
\$ 2.00	\$ 10,180.00
\$ 4,100.00	\$ 73,800.00
\$ 55.50	\$ 16,650.00
\$ 3,250.00	\$ 6,500.00
\$ 225.00	\$ 11,025.00
\$ 40.00	\$ 240.00
\$ 19.00	\$ 171.00
\$ 90.00	\$ 1,260.00

Bid Verification Sheet

M.J. Engineering & Land Surveying, P.C.

Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project
12/21/2022

ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30SQUARE FEET)	EACH	8	\$ 100.00	\$ 800.00
647.51	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I(UNDER 30 SQUARE FEET)	EACH	24	\$ 50.00	\$ 1,200.00
647.01000102	REMOVE AND DISPOSE COMMERCIAL SIGN STRUCTURE	EACH	2	\$ 750.00	\$ 1,500.00
647.83001002	REMOVAL AND DISPOSAL OF DELINEATORS AND/OR REFERENCE MARKERSWITH OR WITHOUT POSTS	EACH	20	\$ 20.00	\$ 400.00
655.05010010	RESETTING EXISTING SANITARY SEWER MANHOLE CASTINGS	EACH	5	\$ 1,000.00	\$ 5,000.00
655.0704	CAST FRAME F1, UNMOUNTABLE CURB BOX CU1 & RETICULINEGRATE G1	EACH	5	\$ 1,500.00	\$ 7,500.00
655.0705	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINEGRATE G2	EACH	18	\$ 1,700.00	\$ 30,600.00
655.1103	WELDED FRAME AND RETICULINE GRATE 3	EACH	3	\$ 900.00	\$ 2,700.00
655.1116	WELDED FRAME AND RETICULINE GRATE 16	EACH	5	\$ 1,250.00	\$ 6,250.00
655.1201	MANHOLE FRAME AND GRATE	EACH	1	\$ 1,200.00	\$ 1,200.00
655.1202	MANHOLE FRAME AND COVER	EACH	13	\$ 1,100.00	\$ 14,300.00
661.01000108	REESTABLISHING ELECTRICAL SERVICE TO CUSTOMERS	LS	1	\$ 21,000.00	\$ 21,000.00
662.60030008	ALTERING ELEVATION OF GAS VALVE BOXES	EACH	17	\$ 400.00	\$ 6,800.00
662.60510008	ADJUST MANHOLE TO GRADE (TELEPHONE)	EACH	5	\$ 700.00	\$ 3,500.00
663.0106	DUCTILE IRON CEMENT LINED WATER PIPE, 6"	LF	77	\$ 150.00	\$ 11,550.00
663.0112	DUCTILE IRON CEMENT LINED WATER PIPE, 12"	LF	18	\$ 200.00	\$ 3,600.00
663.0603	COPPER WATER SERVICE PIPE 3/4"	LF	30	\$ 50.00	\$ 1,500.00
663.0604	COPPER WATER SERVICE PIPE 1"	LF	97	\$ 70.00	\$ 6,790.00
663.0607	COPPER WATER SERVICE PIPE 2"	LF	135	\$ 90.00	\$ 12,150.00
663.1206	DOUBLE DISK GATE VALVE & VALVE BOX, 6 " IF NEEDED	EACH	1	\$ 700.00	\$ 700.00
663.1301	HYDRANT	EACH	1	\$ 6,000.00	\$ 6,000.00
663.160606	TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 6" X 6"	EACH	6	\$ 6,500.00	\$ 39,000.00
663.2001	IRON WATER MAIN FITTINGS (3 " - 8 ")	LB	450	\$ 10.00	\$ 4,500.00
663.2002	IRON WATER MAIN FITTINGS (10" - 16")	LB	880	\$ 15.00	\$ 13,200.00
663.2503	WATER SERVICE CONNECTION, 3/4"	EACH	1	\$ 1,000.00	\$ 1,000.00
663.2504	WATER SERVICE CONNECTION, 1"	EACH	1	\$ 1,500.00	\$ 1,500.00
663.2507	WATER SERVICE CONNECTION, 2"	EACH	1	\$ 3,000.00	\$ 3,000.00
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EACH	17	\$ 300.00	\$ 5,100.00
663.40	DISCONNECT AND CAP EXISTING WATER MAIN	EACH	1	\$ 1,500.00	\$ 1,500.00
663.4106	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 6"	LF	66	\$ 25.00	\$ 1,650.00
663.4112	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12"	LF	18	\$ 50.00	\$ 900.00
663.42	REMOVE AND DISPOSE OF EXISTING WATER VALVE & VALVE BOX IF NEEDED	EACH	1	\$ 300.00	\$ 300.00
663.43	REMOVE AND DISPOSE OF EXISTING HYDRANT	EACH	1	\$ 1,000.00	\$ 1,000.00
663.44	REMOVE AND DISPOSE OF EXISTING WATER SERVICE CONNECTION	EACH	3	\$ 1,000.00	\$ 3,000.00
670.0107	FOUNDATION FOR LIGHT STANDARDS, 7 FEET LONG	EACH	10	\$ 2,500.00	\$ 25,000.00
670.01360039	LED ROADWAY LUMINAIRE	EACH	12	\$ 1,000.00	\$ 12,000.00
670.1136	ALUMINUM LIGHT STANDARDS FOR SINGLE MEMBER OR TRUSS ARM(S),36 FEET HIGH	EACH	10	\$ 3,000.00	\$ 30,000.00
670.1312	ALUMINUM TRUSSED ARM, 12 FEET LONG	EACH	12	\$ 1,000.00	\$ 12,000.00
670.19	BREAKAWAY TRANSFORMER BASE (ALUMINUM)	EACH	10	\$ 700.00	\$ 7,000.00
670.2602	RIGID PLASTIC CONDUIT, 2"	LF	4,698	\$ 6.00	\$ 28,188.00
670.3020	PULLBOXES 10.1 CUBIC FEET TO 15 CUBIC FEET,INSIDE VOLUME (LIGHTING)	EACH	34	\$ 1,250.00	\$ 42,500.00
670.60	PHOTOELECTRIC CONTROLS	EACH	12	\$ 100.00	\$ 1,200.00
670.7006	SINGLE CONDUCTOR CABLE, NUMBER 10 GAGE	LF	4,698	\$ 2.50	\$ 11,745.00
670.7501	GROUND WIRE NO. 6 AWG	LF	4,698	\$ 4.00	\$ 18,792.00
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EACH	3	\$ 25,000.00	\$ 75,000.00
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	60	\$ 1,500.00	\$ 90,000.00
680.5002	CONCRETE BASE FOR CONTROLLER CABINET	EACH	3	\$ 3,000.00	\$ 9,000.00
680.510501	PULLBOX-RECTANGULAR, 26 X 18 INCH, REINFORCEDCONCRETE	EACH	13	\$ 1,500.00	\$ 19,500.00
680.520103	CONDUIT, METAL STEEL, ZINC COATED, 1"	LF	80	\$ 25.00	\$ 2,000.00
680.520506	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 2"	LF	800	\$ 12.00	\$ 9,600.00
680.520508	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 3"	LF	105	\$ 20.00	\$ 2,100.00
680.601129	TRAFFIC SIGNAL POLE-SPAN WIRE 11,000 POUND LOAD, 29 FEETLONG	EACH	1	\$ 13,000.00	\$ 13,000.00
680.601131	TRAFFIC SIGNAL POLE-SPAN WIRE 11,000 POUND LOAD, 31 FEETLONG	EACH	1	\$ 13,000.00	\$ 13,000.00
680.601431	TRAFFIC SIGNAL POLE-SPAN WIRE 14,000 POUND LOAD, 31 FEETLONG	EACH	1	\$ 15,000.00	\$ 15,000.00
680.601432	TRAFFIC SIGNAL POLE-SPAN WIRE 14,000 POUND LOAD, 32 FEETLONG	EACH	1	\$ 15,000.00	\$ 15,000.00
680.601532	TRAFFIC SIGNAL POLE-SPAN WIRE 15,000 POUND LOAD, 32 FEETLONG	EACH	1	\$ 18,000.00	\$ 18,000.00
680.601535	TRAFFIC SIGNAL POLE-SPAN WIRE 15,000 POUND LOAD, 35 FEETLONG	EACH	1	\$ 18,000.00	\$ 18,000.00
680.6708	TRAFFIC SIGNAL POLE POST TOP MOUNT, 8 FEET MOUNTING HEIGHT	EACH	9	\$ 1,200.00	\$ 10,800.00

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 18.00	\$ 144.00
\$ 29.00	\$ 696.00
\$ 580.00	\$ 1,160.00
\$ 23.00	\$ 460.00
\$ 1,100.00	\$ 5,500.00
\$ 1,830.00	\$ 9,150.00
\$ 2,270.00	\$ 40,860.00
\$ 1,400.00	\$ 4,200.00
\$ 1,730.00	\$ 8,650.00
\$ 990.00	\$ 990.00
\$ 880.00	\$ 11,440.00
\$ 8,400.00	\$ 8,400.00
\$ 380.00	\$ 6,460.00
\$ 980.00	\$ 4,900.00
\$ 120.00	\$ 9,240.00
\$ 280.00	\$ 5,040.00
\$ 89.00	\$ 2,670.00
\$ 95.00	\$ 9,215.00
\$ 115.00	\$ 15,525.00
\$ 4,300.00	\$ 4,300.00
\$ 9,100.00	\$ 9,100.00
\$ 8,400.00	\$ 50,400.00
\$ 7.00	\$ 3,150.00
\$ 8.00	\$ 7,040.00
\$ 820.00	\$ 820.00
\$ 900.00	\$ 900.00
\$ 1,150.00	\$ 1,150.00
\$ 340.00	\$ 5,780.00
\$ 2,900.00	\$ 2,900.00
\$ 43.00	\$ 2,838.00
\$ 70.00	\$ 1,260.00
\$ 350.00	\$ 350.00
\$ 1,150.00	\$ 1,150.00
\$ 1,650.00	\$ 4,950.00
\$ 1,650.00	\$ 16,500.00
\$ 620.00	\$ 7,440.00
\$ 3,100.00	\$ 31,000.00
\$ 1,100.00	\$ 13,200.00
\$ 800.00	\$ 8,000.00
\$ 8.50	\$ 39,933.00
\$ 1,650.00	\$ 56,100.00
\$ 85.00	\$ 1,020.00
\$ 5.70	\$ 26,778.60
\$ 6.50	\$ 30,537.00
\$ 24,000.00	\$ 72,000.00
\$ 1,400.00	\$ 84,000.00
\$ 1,800.00	\$ 5,400.00
\$ 1,500.00	\$ 19,500.00
\$ 34.00	\$ 2,720.00
\$ 8.50	\$ 6,800.00
\$ 35.00	\$ 3,675.00
\$ 16,500.00	\$ 16,500.00
\$ 16,500.00	\$ 16,500.00
\$ 20,000.00	\$ 20,000.00
\$ 20,000.00	\$ 20,000.00
\$ 22,000.00	\$ 22,000.00
\$ 22,000.00	\$ 22,000.00
\$ 1,250.00	\$ 11,250.00

New Castle Paving, LLC	
Unit Price	Total Price
\$ 122.40	\$ 979.20
\$ 25.50	\$ 612.00
\$ 250.00	\$ 500.00
\$ 20.40	\$ 408.00
\$ 1,000.00	\$ 5,000.00
\$ 1,555.00	\$ 7,775.00
\$ 1,980.00	\$ 35,640.00
\$ 859.00	\$ 2,577.00
\$ 1,400.00	\$ 7,000.00
\$ 918.00	\$ 918.00
\$ 873.00	\$ 11,349.00
\$ 31,237.00	\$ 31,237.00
\$ 345.00	\$ 5,865.00
\$ 1,730.00	\$ 8,650.00
\$ 133.00	\$ 10,241.00
\$ 560.00	\$ 10,080.00
\$ 49.00	\$ 1,470.00
\$ 94.00	\$ 9,118.00
\$ 94.00	\$ 12,690.00
\$ 2,400.00	\$ 2,400.00
\$ 6,600.00	\$ 6,600.00
\$ 5,645.00	\$ 33,870.00
\$ 24.00	\$ 10,800.00
\$ 15.50	\$ 13,640.00
\$ 1,300.00	\$ 1,300.00
\$ 1,300.00	\$ 1,300.00
\$ 2,700.00	\$ 2,700.00
\$ 200.00	\$ 3,400.00
\$ 1,550.00	\$ 1,550.00
\$ 10.00	\$ 660.00
\$ 28.00	\$ 504.00
\$ 217.00	\$ 217.00
\$ 500.00	\$ 500.00
\$ 335.00	\$ 1,005.00
\$ 1,468.00	\$ 14,680.00
\$ 540.00	\$ 6,480.00
\$ 2,764.00	\$ 27,640.00
\$ 974.00	\$ 11,688.00
\$ 693.00	\$ 6,930.00
\$ 7.75	\$ 36,409.50
\$ 1,428.00	\$ 48,552.00
\$ 76.50	\$ 918.00
\$ 5.10	\$ 23,959.80
\$ 5.70	\$ 26,778.60
\$ 21,000.00	\$ 63,000.00
\$ 1,225.00	\$ 73,500.00
\$ 1,630.00	\$ 4,890.00
\$ 1,326.00	\$ 17,238.00
\$ 30.25	\$ 2,420.00
\$ 7.60	\$ 6,080.00
\$ 31.00	\$ 3,255.00
\$ 14,500.00	\$ 14,500.00
\$ 14,500.00	\$ 14,500.00
\$ 17,750.00	\$ 17,750.00
\$ 17,850.00	\$ 17,850.00
\$ 19,500.00	\$ 19,500.00
\$ 19,800.00	\$ 19,800.00
\$ 1,122.00	\$ 10,098.00

James H. Maloy Inc.	
Unit Price	Total Price
\$ 125.00	\$ 1,000.00
\$ 40.00	\$ 960.00
\$ 1,600.00	\$ 3,200.00
\$ 20.00	\$ 400.00
\$ 1,500.00	\$ 7,500.00
\$ 3,100.00	\$ 15,500.00
\$ 3,500.00	\$ 63,000.00
\$ 1,700.00	\$ 5,100.00
\$ 2,200.00	\$ 11,000.00
\$ 2,000.00	\$ 2,000.00
\$ 1,500.00	\$ 19,500.00
\$ 8,000.00	\$ 8,000.00
\$ 250.00	\$ 4,250.00
\$ 1,500.00	\$ 7,500.00
\$ 150.00	\$ 11,550.00
\$ 575.00	\$ 10,350.00
\$ 33.00	\$ 990.00
\$ 34.00	\$ 3,298.00
\$ 50.00	\$ 6,750.00
\$ 3,500.00	\$ 3,500.00
\$ 6,500.00	\$ 6,500.00
\$ 8,000.00	\$ 48,000.00
\$ 18.00	\$ 8,100.00
\$ 19.00	\$ 16,720.00
\$ 800.00	\$ 800.00
\$ 830.00	\$ 830.00
\$ 1,100.00	\$ 1,100.00
\$ 300.00	\$ 5,100.00
\$ 2,500.00	\$ 2,500.00
\$ 70.00	\$ 4,620.00
\$ 110.00	\$ 1,980.00
\$ 800.00	\$ 800.00
\$ 900.00	\$ 900.00
\$ 900.00	\$ 2,700.00
\$ 1,500.00	\$ 15,000.00
\$ 550.00	\$ 6,600.00
\$ 2,800.00	\$ 28,000.00
\$ 1,000.00	\$ 12,000.00
\$ 720.00	\$ 7,200.00
\$ 8.00	\$ 37,584.00
\$ 1,500.00	\$ 51,000.00
\$ 80.00	\$ 960.00
\$ 5.25	\$ 24,664.50
\$ 6.00	\$ 28,188.00
\$ 21,000.00	\$ 63,000.00
\$ 1,300.00	\$ 78,000.00
\$ 1,700.00	\$ 5,100.00
\$ 1,400.00	\$ 18,200.00
\$ 30.00	\$ 2,400.00
\$ 8.00	\$ 6,400.00
\$ 31.00	\$ 3,255.00
\$ 15,000.00	\$ 15,000.00
\$ 15,000.00	\$ 15,000.00
\$ 18,000.00	\$ 18,000.00
\$ 18,000.00	\$ 18,000.00
\$ 20,000.00	\$ 20,000.00
\$ 20,000.00	\$ 20,000.00
\$ 1,150.00	\$ 10,350.00

Carver Construction Inc.	
Unit Price	Total Price
\$ 135.00	\$ 1,080.00
\$ 27.50	\$ 660.00
\$ 2,500.00	\$ 5,000.00
\$ 22.50	\$ 450.00
\$ 1,300.00	\$ 6,500.00
\$ 1,785.00	\$ 8,925.00
\$ 2,425.00	\$ 43,650.00
\$ 1,350.00	\$ 4,050.00
\$ 1,700.00	\$ 8,500.00
\$ 1,200.00	\$ 1,200.00
\$ 1,200.00	\$ 15,600.00
\$ 8,500.00	\$ 8,500.00
\$ 450.00	\$ 7,650.00
\$ 450.00	\$ 2,250.00
\$ 135.00	\$ 10,395.00
\$ 320.00	\$ 5,760.00
\$ 75.00	\$ 2,250.00
\$ 71.00	\$ 6,887.00
\$ 107.00	\$ 14,445.00
\$ 2,550.00	\$ 2,550.00
\$ 10,000.00	\$ 10,000.00
\$ 500.00	\$ 3,000.00
\$ 14.50	\$ 6,525.00
\$ 15.00	\$ 13,200.00
\$ 2,300.00	\$ 2,300.00
\$ 2,300.00	\$ 2,300.00
\$ 4,700.00	\$ 4,700.00
\$ 500.00	\$ 8,500.00
\$ 1,100.00	\$ 1,100.00
\$ 30.00	\$ 1,980.00
\$ 24.00	\$ 432.00
\$ 425.00	\$ 425.00
\$ 875.00	\$ 875.00
\$ 875.00	\$ 2,625.00
\$ 1,650.00	\$ 16,500.00
\$ 600.00	\$ 7,200.00
\$ 3,100.00	\$ 31,000.00
\$ 1,100.00	\$ 13,200.00
\$ 775.00	\$ 7,750.00
\$ 8.50	\$ 39,933.00
\$ 1,600.00	\$ 54,400.00
\$ 85.00	\$ 1,020.00
\$ 5.50	\$ 25,839.00
\$ 6.50	\$ 30,537.00
\$ 22,750.00	\$ 68,250.00
\$ 1,400.00	\$ 84,000.00
\$ 1,870.00	\$ 5,610.00
\$ 1,450.00	\$ 18,850.00
\$ 32.50	\$ 2,600.00
\$ 9.00	\$ 7,200.00
\$ 33.50	\$ 3,517.50
\$ 15,500.00	\$ 15,500.00
\$ 15,500.00	\$ 15,500.00
\$ 19,500.00	\$ 19,500.00
\$ 19,500.00	\$ 19,500.00
\$ 21,500.00	\$ 21,500.00
\$ 21,500.00	\$ 21,500.00
\$ 1,250.00	\$ 11,250.00

Bid Verification Sheet

M.J. Engineering & Land Surveying, P.C.

Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project

12/21/2022

ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
680.7002	DUAL SPAN WIRE ASSEMBLY WITH UPPER TETHER WIRE	EACH	3	\$ 1,900.00	\$ 5,700.00
680.730314	SIGNAL CABLE 3 CONDUCTORS, 14 AWG	LF	865	\$ 3.00	\$ 2,595.00
680.730514	SIGNAL CABLE 5 CONDUCTORS, 14 AWG	LF	3,235	\$ 4.00	\$ 12,940.00
680.731014	SIGNAL CABLE 10 CONDUCTORS, 14 AWG	LF	345	\$ 5.00	\$ 1,725.00
680.731514	SIGNAL CABLE 15 CONDUCTORS, 14 AWG	LF	195	\$ 7.00	\$ 1,365.00
680.732014	SIGNAL CABLE 20 CONDUCTORS, 14 AWG	LF	110	\$ 8.00	\$ 880.00
680.77000001	MODIFY TRAFFIC SIGNAL EQUIPMENT	LS	1	\$ 13,400.00	\$ 13,400.00
680.78000001	MODIFY AND REMOVE TRAFFIC SIGNAL EQUIPMENT	LS	1	\$ 25,000.00	\$ 25,000.00
680.80310008	FURNISH AND INSTALL MICROCOMPUTER (MODEL 2070)COMPLETE WITH STRETCH-TYPE CABINET	EACH	3	\$ 15,000.00	\$ 45,000.00
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EACH	26	\$ 150.00	\$ 3,900.00
680.810102	TRAFFIC SIGNAL MODULE - 12 INCH, RED ARROW, LED	EACH	11	\$ 150.00	\$ 1,650.00
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EACH	26	\$ 150.00	\$ 3,900.00
680.810104	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW ARROW, LED	EACH	24	\$ 150.00	\$ 3,600.00
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EACH	26	\$ 150.00	\$ 3,900.00
680.810106	TRAFFIC SIGNAL MODULE - 12 INCH GREEN ARROW, LED	EACH	13	\$ 150.00	\$ 1,950.00
680.810107	TRAFFIC SIGNAL SECTION - TYPE I, 12 INCH	EACH	126	\$ 200.00	\$ 25,200.00
680.810308	INSTALL BALL/ARROW LED TRAFFIC SIGNAL MODULE	EACH	126	\$ 60.00	\$ 7,560.00
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EACH	23	\$ 300.00	\$ 6,900.00
680.8112	TRAFFIC SIGNAL BRACKET ASSEMBLY - 2 WAY	EACH	2	\$ 400.00	\$ 800.00
680.8113	TRAFFIC SIGNAL BRACKET ASSEMBLY - 3 WAY	EACH	2	\$ 800.00	\$ 1,600.00
680.8114	TRAFFIC SIGNAL BRACKET ASSEMBLY - 4 WAY	EACH	1	\$ 1,200.00	\$ 1,200.00
680.8120	TRAFFIC SIGNAL DISCONNECT HANGER	EACH	28	\$ 150.00	\$ 4,200.00
680.813103	PEDESTRIAN SIGNAL SECTION - TYPE I, 12 INCH	EACH	32	\$ 175.00	\$ 5,600.00
680.813104	INSTALL LED PEDESTRIAN SIGNAL MODULE	EACH	32	\$ 60.00	\$ 1,920.00
680.813105	PEDESTRIAN SIGNAL MODULE - 12 INCH BI-MODAL,HAND/MAN SYMBOLS LED	EACH	16	\$ 200.00	\$ 3,200.00
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	6	\$ 175.00	\$ 1,050.00
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EACH	9	\$ 200.00	\$ 1,800.00
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	16	\$ 200.00	\$ 3,200.00
680.81990008	TRAFFIC SIGNAL BACK PLATES WITH YELLOW REFLECTIVE TAPE	EACH	37	\$ 200.00	\$ 7,400.00
680.8209	OVERHEAD SIGN ASSEMBLY, TYPE I	EACH	14	\$ 1,000.00	\$ 14,000.00
680.8225	PEDESTRIAN PUSHBUTTON AND SIGN - WITHOUT POST	EACH	12	\$ 1,000.00	\$ 12,000.00
680.8226	PEDESTRIAN PUSHBUTTON AND SIGN - WITH POST	EACH	4	\$ 1,250.00	\$ 5,000.00
680.82208304	SOLAR POWERED FLASHING BEACON ASSEMBLY - 8IN BEACON	EACH	2	\$ 7,500.00	\$ 15,000.00
680.90920008	ELECTRIC METER SOCKET, 200 AMP, SINGLE PHASE, 240/120VOLT W/ BYPASS SWITCH FOR SIGNAL INSTALLATIONS	EACH	3	\$ 750.00	\$ 2,250.00
680.93500101	SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	EACH	2	\$ 3,000.00	\$ 6,000.00
680.93500301	REMOTE ANTENNA CABLE FOR SPREAD SPECTRUM WIRELESS TRAFFICCONTROL	LF	100	\$ 12.00	\$ 1,200.00
680.94997008	FURNISH AND INSTALL ELECTRICAL DISCONNECT GENERATOR TRANSFERSWITCH	EACH	3	\$ 1,000.00	\$ 3,000.00
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	25,815	\$ 1.00	\$ 25,815.00
685.12	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	16,730	\$ 1.00	\$ 16,730.00
685.13	WHITE EPOXY REFLECTORIZED PAVEMENT LETTERS - 20 MILS	EACH	64	\$ 50.00	\$ 3,200.00
685.14	WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS - 20 MILS	EACH	53	\$ 150.00	\$ 7,950.00
697.03	FIELD CHANGE PAYMENT	DC	1	\$ 318,720.58	\$ 318,720.58
698.04	ASPHALT PRICE ADJUSTMENT	DC	1	\$ 30,000.00	\$ 30,000.00
698.05	FUEL PRICE ADJUSTMENT	DC	1	\$ 110,000.00	\$ 110,000.00
699.040001	MOBILIZATION	LS	1	\$ 273,325.28	\$ 274,000.00

Total: \$7,107,132.08

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 2,900.00	\$ 8,700.00
\$ 2.90	\$ 2,508.50
\$ 5.70	\$ 18,439.50
\$ 6.00	\$ 2,070.00
\$ 11.40	\$ 2,223.00
\$ 15.00	\$ 1,650.00
\$ 1,700.00	\$ 1,700.00
\$ 21,000.00	\$ 21,000.00
\$ 27,000.00	\$ 81,000.00
\$ 70.00	\$ 1,820.00
\$ 75.00	\$ 825.00
\$ 75.00	\$ 1,950.00
\$ 75.00	\$ 1,800.00
\$ 82.00	\$ 2,132.00
\$ 82.00	\$ 1,066.00
\$ 220.00	\$ 27,720.00
\$ 74.00	\$ 9,324.00
\$ 470.00	\$ 10,810.00
\$ 670.00	\$ 1,340.00
\$ 1,000.00	\$ 2,000.00
\$ 1,400.00	\$ 1,400.00
\$ 1,150.00	\$ 32,200.00
\$ 250.00	\$ 8,000.00
\$ 75.00	\$ 2,400.00
\$ 175.00	\$ 2,800.00
\$ 250.00	\$ 1,500.00
\$ 240.00	\$ 2,160.00
\$ 190.00	\$ 3,040.00
\$ 430.00	\$ 15,910.00
\$ 1,050.00	\$ 14,700.00
\$ 780.00	\$ 9,360.00
\$ 2,000.00	\$ 8,000.00
\$ 15,000.00	\$ 30,000.00
\$ 950.00	\$ 2,850.00
\$ 6,300.00	\$ 12,600.00
\$ 8.20	\$ 820.00
\$ 850.00	\$ 2,550.00
\$ 3.20	\$ 82,608.00
\$ 2.10	\$ 35,133.00
\$ 82.00	\$ 5,248.00
\$ 230.00	\$ 12,190.00
\$ 319,000.00	\$ 319,000.00
\$ 30,000.00	\$ 30,000.00
\$ 110,000.00	\$ 110,000.00
\$ 273,000.00	\$ 273,000.00

\$ 7,338,482.95

New Castle Paving, LLC	
Unit Price	Total Price
\$ 2,550.00	\$ 7,650.00
\$ 2.55	\$ 2,205.75
\$ 4.95	\$ 16,013.25
\$ 5.30	\$ 1,828.50
\$ 9.95	\$ 1,940.25
\$ 13.25	\$ 1,457.50
\$ 1,530.00	\$ 1,530.00
\$ 18,750.00	\$ 18,750.00
\$ 23,600.00	\$ 70,800.00
\$ 61.20	\$ 1,591.20
\$ 66.00	\$ 726.00
\$ 66.00	\$ 1,716.00
\$ 66.00	\$ 1,584.00
\$ 72.00	\$ 1,872.00
\$ 72.00	\$ 936.00
\$ 193.00	\$ 24,318.00
\$ 64.00	\$ 8,064.00
\$ 418.00	\$ 9,614.00
\$ 581.00	\$ 1,162.00
\$ 877.00	\$ 1,754.00
\$ 1,280.00	\$ 1,280.00
\$ 1,020.00	\$ 28,560.00
\$ 224.00	\$ 7,168.00
\$ 66.50	\$ 2,128.00
\$ 153.00	\$ 2,448.00
\$ 219.00	\$ 1,314.00
\$ 209.00	\$ 1,881.00
\$ 168.00	\$ 2,688.00
\$ 377.00	\$ 13,949.00
\$ 944.00	\$ 13,216.00
\$ 683.00	\$ 8,196.00
\$ 1,785.00	\$ 7,140.00
\$ 13,000.00	\$ 26,000.00
\$ 826.00	\$ 2,478.00
\$ 5,500.00	\$ 11,000.00
\$ 7.10	\$ 710.00
\$ 739.00	\$ 2,217.00
\$ 2.85	\$ 73,572.75
\$ 1.83	\$ 30,615.90
\$ 71.40	\$ 4,569.60
\$ 204.00	\$ 10,812.00
\$ 319,000.00	\$ 319,000.00
\$ 30,000.00	\$ 30,000.00
\$ 110,000.00	\$ 110,000.00
\$ 284,000.00	\$ 284,000.00

\$ 7,399,333.55

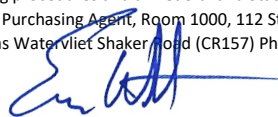
James H. Maloy Inc.	
Unit Price	Total Price
\$ 2,600.00	\$ 7,800.00
\$ 2.70	\$ 2,335.50
\$ 5.00	\$ 16,175.00
\$ 5.50	\$ 1,897.50
\$ 10.00	\$ 1,950.00
\$ 14.00	\$ 1,540.00
\$ 1,600.00	\$ 1,600.00
\$ 19,000.00	\$ 19,000.00
\$ 24,000.00	\$ 72,000.00
\$ 65.00	\$ 1,690.00
\$ 70.00	\$ 770.00
\$ 70.00	\$ 1,820.00
\$ 70.00	\$ 1,680.00
\$ 72.00	\$ 1,872.00
\$ 73.00	\$ 949.00
\$ 200.00	\$ 25,200.00
\$ 65.00	\$ 8,190.00
\$ 440.00	\$ 10,120.00
\$ 600.00	\$ 1,200.00
\$ 900.00	\$ 1,800.00
\$ 1,300.00	\$ 1,300.00
\$ 1,050.00	\$ 29,400.00
\$ 230.00	\$ 7,360.00
\$ 70.00	\$ 2,240.00
\$ 160.00	\$ 2,560.00
\$ 220.00	\$ 1,320.00
\$ 210.00	\$ 1,890.00
\$ 177.00	\$ 2,832.00
\$ 390.00	\$ 14,430.00
\$ 975.00	\$ 13,650.00
\$ 700.00	\$ 8,400.00
\$ 1,800.00	\$ 7,200.00
\$ 13,500.00	\$ 27,000.00
\$ 850.00	\$ 2,550.00
\$ 5,700.00	\$ 11,400.00
\$ 7.20	\$ 720.00
\$ 750.00	\$ 2,250.00
\$ 3.00	\$ 77,445.00
\$ 1.90	\$ 31,787.00
\$ 72.00	\$ 4,608.00
\$ 210.00	\$ 11,130.00
\$ 319,000.00	\$ 319,000.00
\$ 30,000.00	\$ 30,000.00
\$ 110,000.00	\$ 110,000.00
\$ 290,000.00	\$ 290,000.00

\$ 7,575,000.00

Carver Construction Inc.	
Unit Price	Total Price
\$ 2,950.00	\$ 8,850.00
\$ 3.00	\$ 2,595.00
\$ 5.25	\$ 16,983.75
\$ 6.00	\$ 2,070.00
\$ 11.00	\$ 2,145.00
\$ 15.00	\$ 1,650.00
\$ 1,750.00	\$ 1,750.00
\$ 21,500.00	\$ 21,500.00
\$ 27,000.00	\$ 81,000.00
\$ 70.00	\$ 1,820.00
\$ 75.00	\$ 825.00
\$ 75.00	\$ 1,950.00
\$ 75.00	\$ 1,800.00
\$ 80.00	\$ 2,080.00
\$ 80.00	\$ 1,040.00
\$ 220.00	\$ 27,720.00
\$ 72.50	\$ 9,135.00
\$ 465.00	\$ 10,695.00
\$ 650.00	\$ 1,300.00
\$ 975.00	\$ 1,950.00
\$ 1,425.00	\$ 1,425.00
\$ 1,175.00	\$ 32,900.00
\$ 255.00	\$ 8,160.00
\$ 75.00	\$ 2,400.00
\$ 165.00	\$ 2,640.00
\$ 255.00	\$ 1,530.00
\$ 235.00	\$ 2,115.00
\$ 185.00	\$ 2,960.00
\$ 415.00	\$ 15,355.00
\$ 1,100.00	\$ 15,400.00
\$ 740.00	\$ 8,880.00
\$ 1,950.00	\$ 7,800.00
\$ 14,500.00	\$ 29,000.00
\$ 965.00	\$ 2,895.00
\$ 6,250.00	\$ 12,500.00
\$ 8.00	\$ 800.00
\$ 850.00	\$ 2,550.00
\$ 3.00	\$ 77,445.00
\$ 2.00	\$ 33,460.00
\$ 79.00	\$ 5,056.00
\$ 225.00	\$ 11,925.00
\$ 319,000.00	\$ 319,000.00
\$ 30,000.00	\$ 30,000.00
\$ 110,000.00	\$ 110,000.00
\$ 290,000.00	\$ 290,000.00

\$ 7,658,145.00

I, representing M.J. Engineering & Land Surveying, P.C., acting on behalf of the County of Albany, hereby certify that this contract was bid in accordance with the applicable competitive bidding procedures and all Federal and State rules and regulations pursuant thereto, and that this tabulation includes all bids received at the public bid opening held at the Albany County Purchasing Agent, Room 1000, 112 State Street, Albany, New York 12207 at 11:00 AM on Thursday, 12/15/2022 for a contract in the County of Albany for the project identified as Watervliet Shaker Road (CR157) Phase III Highway Improvement Project.

Signature:  December 21, 2022
Eric Williams, P.E. Vice President Date

Low Bid Analysis

M.J. Engineering & Land Surveying, P.C.

Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project
12/21/2022

ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
201.06	CLEARING AND GRUBBING	LS	1	\$ 15,000.00	\$ 15,000.00
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	28,830	\$ 20.00	\$ 576,600.00
203.03	EMBANKMENT IN PLACE	CY	5,830	\$ 25.00	\$ 145,750.00
203.07	SELECT GRANULAR FILL	CY	2,230	\$ 20.00	\$ 44,600.00
203.20	SELECT GRANULAR SUBGRADE	CY	1,940	\$ 40.00	\$ 77,600.00
203.25	SAND BACKFILL	CY	100	\$ 30.00	\$ 3,000.00
203.24010017	SHOULDER BACKUP MATERIAL	TON	100	\$ 100.00	\$ 10,000.00
204.01	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	CY	11	\$ 250.00	\$ 2,750.00
206.0201	TRENCH AND CULVERT EXCAVATION	CY	3,730	\$ 40.00	\$ 149,200.00
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	5,603	\$ 25.00	\$ 140,075.00
206.05	TEST PIT EXCAVATION	EACH	20	\$ 650.00	\$ 13,000.00
207.24	GEOTEXTILE STABILIZATION	SY	16,230	\$ 2.50	\$ 40,575.00
209.100101	MULCH - TEMPORARY	SY	31,740	\$ 1.00	\$ 31,740.00
209.1003	SEED AND MULCH - TEMPORARY	SY	12,700	\$ 1.00	\$ 12,700.00
209.110101	CHECK DAM (DITCH BOTTOM WIDTH 0.0 TO 3'), STONE - TEMPORARY	EACH	28	\$ 350.00	\$ 9,800.00
209.13	SILT FENCE-TEMPORARY	LF	3,300	\$ 10.00	\$ 33,000.00
209.1801	ROLLED EROSION CONTROL PRODUCT, CLASS I TYPE A, SHORT TERM	SY	4,990	\$ 1.00	\$ 4,990.00
209.2301	SEDIMENT FILTER LOG-TEMPORARY,12"	LF	900	\$ 9.00	\$ 8,100.00
304.12	SUBBASE COURSE, TYPE 2	CY	8,500	\$ 60.00	\$ 510,000.00
404.018901	TRUING & LEVELING F9, WMA, 80 SERIES COMPACTION	TON	210	\$ 105.00	\$ 22,050.00
404.126201	12.5 F2 TOP COURSE WMA, 60 SERIES COMPACTION	TON	3,860	\$ 110.00	\$ 424,600.00
404.196901	19 F9 BINDER COURSE WMA, 60 SERIES COMPACTION	TON	2,770	\$ 110.00	\$ 304,700.00
404.256901	25 F9 BINDER COURSE WMA, 60 SERIES COMPACTION	TON	3,650	\$ 110.00	\$ 401,500.00
407.0103	STRAIGHT TACK COAT	GAL	2,850	\$ 4.00	\$ 11,400.00
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	22,519	\$ 0.50	\$ 11,259.50
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	18,360	\$ 3.75	\$ 68,850.00
552.17	SHIELDS AND SHORING	SF	8,630	\$ 0.50	\$ 4,315.00
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	21	\$ 850.00	\$ 17,850.00
603.171116	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE	EACH	6	\$ 300.00	\$ 1,800.00
603.171216	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 18 INCH DIAMETER, 16 GAUGE	EACH	4	\$ 350.00	\$ 1,400.00
603.171316	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 21 INCH DIAMETER, 16 GAUGE	EACH	1	\$ 400.00	\$ 400.00
603.7301	REINFORCED CONCRETE PIPE END SECTIONS 12 INCHDIAMETER	EACH	3	\$ 1,500.00	\$ 4,500.00
603.7302	REINFORCED CONCRETE PIPE END SECTIONS 15 INCHDIAMETER	EACH	1	\$ 2,000.00	\$ 2,000.00
603.7401	REINFORCED CONCRETE PIPE, CLASS II, 12 INCH DIAMETER	LF	160	\$ 100.00	\$ 16,000.00
603.7402	REINFORCED CONCRETE PIPE, CLASS II, 15 INCH DIAMETER	LF	449	\$ 120.00	\$ 53,880.00
603.7403	REINFORCED CONCRETE PIPE, CLASS II, 18 INCH DIAMETER	LF	47	\$ 150.00	\$ 7,050.00
603.7405	REINFORCED CONCRETE PIPE, CLASS II, 24 INCH DIAMETER	LF	380	\$ 180.00	\$ 68,400.00
603.77	CONCRETE COLLARS	EACH	6	\$ 2,000.00	\$ 12,000.00
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 12 INCH DIAMETER	LF	118	\$ 50.00	\$ 5,900.00
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 15 INCH DIAMETER	LF	1,741	\$ 65.00	\$ 113,165.00
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 18 INCH DIAMETER	LF	751	\$ 75.00	\$ 56,325.00
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 24 INCH DIAMETER	LF	229	\$ 85.00	\$ 19,465.00
603.9836	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 36 INCH DIAMETER	LF	6	\$ 100.00	\$ 600.00
604.070101	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	3	\$ 750.00	\$ 2,250.00
604.300103	RECTANGULAR DRAINAGE STRUCTURE (TYPE A) FOR #3 WELDED FRAME	LF	13	\$ 750.00	\$ 9,750.00
604.300671	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F1 FRAME	LF	21	\$ 750.00	\$ 15,750.00
604.300771	RECTANGULAR DRAINAGE STRUCTURE TYPE G FOR CAST IRON F1 FRAME	LF	7	\$ 850.00	\$ 5,950.00
604.301772	RECTANGULAR DRAINAGE STRUCTURE TYPE Q FOR CAST IRON F2 FRAME	LF	78	\$ 500.00	\$ 39,000.00
604.302016	RECTANGULAR DRAINAGE STRUCTURE TYPE T FOR #16 WELDED FRAME	LF	23	\$ 500.00	\$ 11,500.00
604.4048	ROUND PRECAST CONCRETE MANHOLE TYPE 48	LF	29	\$ 500.00	\$ 14,500.00

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 75,000.00	\$ 75,000.00
\$ 26.50	\$ 763,995.00
\$ 30.00	\$ 174,900.00
\$ 32.00	\$ 71,360.00
\$ 31.00	\$ 60,140.00
\$ 55.00	\$ 5,500.00
\$ 60.00	\$ 6,000.00
\$ 390.00	\$ 4,290.00
\$ 24.00	\$ 89,520.00
\$ 21.00	\$ 117,663.00
\$ 850.00	\$ 17,000.00
\$ 2.20	\$ 35,706.00
\$ 0.50	\$ 15,870.00
\$ 0.60	\$ 7,620.00
\$ 250.00	\$ 7,000.00
\$ 3.90	\$ 12,870.00
\$ 3.60	\$ 17,964.00
\$ 10.00	\$ 9,000.00
\$ 62.00	\$ 527,000.00
\$ 116.00	\$ 24,360.00
\$ 93.00	\$ 358,980.00
\$ 92.00	\$ 254,840.00
\$ 86.00	\$ 313,900.00
\$ 7.30	\$ 20,805.00
\$ 0.75	\$ 16,889.25
\$ 3.00	\$ 55,080.00
\$ 1.00	\$ 8,630.00
\$ 460.00	\$ 9,660.00
\$ 450.00	\$ 2,700.00
\$ 460.00	\$ 1,840.00
\$ 500.00	\$ 500.00
\$ 2,900.00	\$ 8,700.00
\$ 3,000.00	\$ 3,000.00
\$ 105.00	\$ 16,800.00
\$ 107.00	\$ 48,043.00
\$ 125.00	\$ 5,875.00
\$ 150.00	\$ 57,000.00
\$ 1,300.00	\$ 7,800.00
\$ 65.00	\$ 7,670.00
\$ 70.00	\$ 121,870.00
\$ 83.00	\$ 62,333.00
\$ 125.00	\$ 28,625.00
\$ 500.00	\$ 3,000.00
\$ 1,400.00	\$ 4,200.00
\$ 1,050.00	\$ 13,650.00
\$ 1,100.00	\$ 23,100.00
\$ 1,140.00	\$ 7,980.00
\$ 1,050.00	\$ 81,900.00
\$ 1,000.00	\$ 23,000.00
\$ 1,000.00	\$ 29,000.00

High/Low Bid Items	Major Item	Difference Eng. Est. to Low Bidder	Ratio Low Bid to Eng. Est.
HIGH		\$ (60,000.00)	500.00%
HIGH	MAJOR	\$ (187,395.00)	132.50%
	MAJOR	\$ (29,150.00)	120.00%
HIGH		\$ (26,760.00)	160.00%
LOW		\$ 17,460.00	77.50%
HIGH		\$ (2,500.00)	183.33%
LOW		\$ 4,000.00	60.00%
HIGH		\$ (1,540.00)	156.00%
LOW		\$ 59,680.00	60.00%
	MAJOR	\$ 22,412.00	84.00%
HIGH		\$ (4,000.00)	130.77%
		\$ 4,869.00	88.00%
LOW		\$ 15,870.00	50.00%
LOW		\$ 5,080.00	60.00%
LOW		\$ 2,800.00	71.43%
LOW		\$ 20,130.00	39.00%
HIGH		\$ (12,974.00)	360.00%
		\$ (900.00)	111.11%
	MAJOR	\$ (17,000.00)	103.33%
		\$ (2,310.00)	110.48%
	MAJOR	\$ 65,620.00	84.55%
	MAJOR	\$ 49,860.00	83.64%
LOW	MAJOR	\$ 87,600.00	78.18%
HIGH		\$ (9,405.00)	182.50%
HIGH		\$ (5,629.75)	150.00%
		\$ 13,770.00	80.00%
HIGH		\$ (4,315.00)	200.00%
LOW		\$ 8,190.00	54.12%
HIGH		\$ (900.00)	150.00%
HIGH		\$ (440.00)	131.43%
		\$ (100.00)	125.00%
HIGH		\$ (4,200.00)	193.33%
HIGH		\$ (1,000.00)	150.00%
		\$ (800.00)	105.00%
		\$ 5,837.00	89.17%
		\$ 1,175.00	83.33%
		\$ 11,400.00	83.33%
LOW		\$ 4,200.00	65.00%
HIGH		\$ (1,770.00)	130.00%
	MAJOR	\$ (8,705.00)	107.69%
		\$ (6,008.00)	110.67%
HIGH		\$ (9,160.00)	147.06%
HIGH		\$ (2,400.00)	500.00%
HIGH		\$ (1,950.00)	186.67%
HIGH		\$ (3,900.00)	140.00%
HIGH		\$ (7,350.00)	146.67%
HIGH		\$ (2,030.00)	134.12%
HIGH		\$ (42,900.00)	210.00%
HIGH		\$ (11,500.00)	200.00%
HIGH		\$ (14,500.00)	200.00%

Low Bid Analysis M.J. Engineering & Land Surveying, P.C. Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project 12/21/2022					
ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60	LF	17	\$ 750.00	\$ 12,750.00
604.4072	ROUND PRECAST CONCRETE MANHOLE TYPE 72	LF	17	\$ 1,250.00	\$ 21,250.00
604.4084	ROUND PRECAST CONCRETE MANHOLE TYPE 84	LF	16	\$ 1,600.00	\$ 25,600.00
605.0901	UNDERDRAIN FILTER TYPE 1	CY	290	\$ 65.00	\$ 18,850.00
605.1701	OPTIONAL UNDERDRAIN PIPE, 4 INCH DIAMETER	LF	4,310	\$ 3.00	\$ 12,930.00
606.10	BOX BEAM GUIDE RAILING	LF	310	\$ 55.00	\$ 17,050.00
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	4	\$ 2,500.00	\$ 10,000.00
606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	LF	470	\$ 5.00	\$ 2,350.00
607.08040010	WOOD FENCE - 4 FEET - 0 INCHES HEIGHT	LF	190	\$ 60.00	\$ 11,400.00
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	660	\$ 5.00	\$ 3,300.00
607.97000008	REMOVE AND RESET EXISTING FENCE	LF	45	\$ 30.00	\$ 1,350.00
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY	155	\$ 840.00	\$ 130,200.00
608.01020005	COLORLED AND IMPRINTED PORTLAND CEMENT CONCRETE SIDEWALK	CY	120	\$ 1,300.00	\$ 156,000.00
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS,AND VEGETATION CONTROL STRIPS	TON	1,000	\$ 150.00	\$ 150,000.00
608.03040008	REMOVE, STORE AND RESET CONCRETE BLOCK PAVERS	SY	10	\$ 300.00	\$ 3,000.00
608.21000003	CAST IRON EMBEDDED DETECTABLE WARNING UNITS	SY	30	\$ 450.00	\$ 13,500.00
608.72225108	NON-SECURITY BOLLARD-FIXED IN GROUND, WITH LIGHTING, WIDTH OVER 3 INCHES TO 5 INCHES, HEIGHT OVER 30 INCHES TO 36 INCHES	EACH	24	\$ 900.00	\$ 21,600.00
609.0401	CAST-IN-PLACE CONCRETE CURB TYPE VF6	LF	5,190	\$ 40.00	\$ 207,600.00
610.0501	FERTILIZER	LB	343	\$ 4.00	\$ 1,372.00
610.0701	MYCORRHIZAL FUNGI	LB	423	\$ 20.00	\$ 8,460.00
610.1402	TOPSOIL - ROADSIDE	CY	700	\$ 80.00	\$ 56,000.00
610.1403	TOPSOIL - LAWNS	CY	712	\$ 150.00	\$ 106,800.00
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	6,300	\$ 2.50	\$ 15,750.00
610.1602	TURF ESTABLISHMENT - LAWNS	SY	6,410	\$ 3.00	\$ 19,230.00
610.19	WATERING VEGETATION	MGAL	720	\$ 2.00	\$ 1,440.00
611.0151	PLANTING - MAJOR DECIDUOUS TREES - 2 INCH CALIPER BALL& BURLAP, FIELD POTTED OR FIELD BOXED	EACH	8	\$ 700.00	\$ 5,600.00
611.0161	PLANTING - MAJOR DECIDUOUS TREES - 2 1/2 INCH CALIPER BALL& BURLAP, FIELD POTTED OR FIELD BOXED	EACH	5	\$ 800.00	\$ 4,000.00
611.0171	PLANTING - MAJOR DECIDUOUS TREES - 3 INCH CALIPER BALL& BURLAP, FIELD POTTED OR FIELD BOXED	EACH	13	\$ 1,200.00	\$ 15,600.00
611.0241	PLANTING - MINOR DECIDUOUS TREES - 5 FOOT HEIGHT BALL & BURLAP, FIELD POTTED OR FIELD BOXED	EACH	4	\$ 300.00	\$ 1,200.00
611.0391	PLANTING - CONIFEROUS TREES - 9 FOOT HEIGHT BALL & BURLAP, FIELD POTTED OR FIELD BOXED	EACH	1	\$ 1,200.00	\$ 1,200.00
611.0412	PLANTING - DECIDUOUS SHRUBS - AS SPECIFIED CONTAINER OR BOXGROWN	EACH	231	\$ 100.00	\$ 23,100.00
611.0452	PLANTING - DECIDUOUS SHRUBS - 3 FOOT HEIGHT/SPREADCONTAINER OR BOX GROWN	EACH	108	\$ 200.00	\$ 21,600.00
611.0512	PLANTING - EVERGREEN SHRUBS - AS SPECIFIED CONTAINER OR BOXGROWN	EACH	26	\$ 100.00	\$ 2,600.00
611.17	PORTABLE DRIP IRRIGATION SYSTEM	EACH	31	\$ 55.00	\$ 1,705.00
611.18	REMOVAL OF PORTABLE DRIP IRRIGATION SYSTEM	EACH	31	\$ 15.00	\$ 465.00
611.19	POST-PLANTING CARE	EACH	396	\$ 40.00	\$ 15,840.00
614.060301	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREASTHEIGHT - STUMPS CUT TO ABOVE GRADE	EACH	7	\$ 500.00	\$ 3,500.00
614.060401	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREASTHEIGHT - STUMPS CUT TO ABOVE GRADE	EACH	1	\$ 600.00	\$ 600.00
614.060203	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT TO BELOW GRADE	EACH	5	\$ 250.00	\$ 1,250.00
614.060204	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	EACH	1	\$ 500.00	\$ 500.00
614.060304	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREASTHEIGHT - STUMPS GRUBBED	EACH	2	\$ 600.00	\$ 1,200.00
614.060404	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREASTHEIGHT - STUMPS GRUBBED	EACH	1	\$ 750.00	\$ 750.00
615.02050124	REMOVE, STORE AND RESET BOULDER, TYPE 01	EACH	5	\$ 250.00	\$ 1,250.00
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	\$ 250,000.00	\$ 250,000.00
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	12	\$ 150.00	\$ 1,800.00
619.080102	REMOVE PAVEMENT MARKING STRIPES, EPOXY PAINT	LF	23,280	\$ 1.50	\$ 34,920.00
619.100101	INTERIM PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT)	LF	43,530	\$ 0.50	\$ 21,765.00
619.110712	(PVMS) LARGE SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENTSPECIFIED, CELLULAR COMMUNICATIONS	EACH	2	\$ 10,000.00	\$ 20,000.00
619.11071201	(PVMS) LARGE SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENTSPECIFIED, CELLULAR COMMUNICATIONS	EACH	3	\$ 30,000.00	\$ 90,000.00

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 1,100.00	\$ 18,700.00
\$ 1,200.00	\$ 20,400.00
\$ 1,800.00	\$ 28,800.00
\$ 85.00	\$ 24,650.00
\$ 7.50	\$ 32,325.00
\$ 60.00	\$ 18,600.00
\$ 3,700.00	\$ 14,800.00
\$ 7.00	\$ 3,290.00
\$ 75.00	\$ 14,250.00
\$ 5.00	\$ 3,300.00
\$ 81.00	\$ 3,645.00
\$ 770.00	\$ 119,350.00
\$ 1,200.00	\$ 144,000.00
\$ 106.00	\$ 106,000.00
\$ 370.00	\$ 3,700.00
\$ 380.00	\$ 11,400.00
\$ 3,600.00	\$ 86,400.00
\$ 35.00	\$ 181,650.00
\$ 5.70	\$ 1,955.10
\$ 23.00	\$ 9,729.00
\$ 55.00	\$ 38,500.00
\$ 55.00	\$ 39,160.00
\$ 1.40	\$ 8,820.00
\$ 1.40	\$ 8,974.00
\$ 3.00	\$ 2,160.00
\$ 760.00	\$ 6,080.00
\$ 850.00	\$ 4,250.00
\$ 950.00	\$ 12,350.00
\$ 350.00	\$ 1,400.00
\$ 850.00	\$ 850.00
\$ 74.00	\$ 17,094.00
\$ 85.00	\$ 9,180.00
\$ 115.00	\$ 2,990.00
\$ 56.00	\$ 1,736.00
\$ 11.50	\$ 356.50
\$ 5.50	\$ 2,178.00
\$ 1,200.00	\$ 8,400.00
\$ 1,600.00	\$ 1,600.00
\$ 850.00	\$ 4,250.00
\$ 1,000.00	\$ 1,000.00
\$ 1,350.00	\$ 2,700.00
\$ 1,700.00	\$ 1,700.00
\$ 240.00	\$ 1,200.00
\$ 254,000.00	\$ 254,000.00
\$ 210.00	\$ 2,520.00
\$ 2.00	\$ 46,560.00
\$ 0.35	\$ 15,235.50
\$ 14,000.00	\$ 28,000.00
\$ 25,400.00	\$ 76,200.00

High/Low Bid Items	Major Item	Difference Eng. Est. to Low Bidder	Ratio Low Bid to Eng. Est.
HIGH		\$ (5,950.00)	146.67%
		\$ 850.00	96.00%
		\$ (3,200.00)	112.50%
HIGH		\$ (5,800.00)	130.77%
HIGH		\$ (19,395.00)	250.00%
		\$ (1,550.00)	109.09%
HIGH		\$ (4,800.00)	148.00%
HIGH		\$ (940.00)	140.00%
		\$ (2,850.00)	125.00%
		\$ -	100.00%
HIGH		\$ (2,295.00)	270.00%
	MAJOR	\$ 10,850.00	91.67%
	MAJOR	\$ 12,000.00	92.31%
LOW		\$ 44,000.00	70.67%
		\$ (700.00)	123.33%
		\$ 2,100.00	84.44%
HIGH		\$ (64,800.00)	400.00%
	MAJOR	\$ 25,950.00	87.50%
HIGH		\$ (583.10)	142.50%
		\$ (1,269.00)	115.00%
LOW		\$ 17,500.00	68.75%
LOW		\$ 67,640.00	36.67%
LOW		\$ 6,930.00	56.00%
LOW		\$ 10,256.00	46.67%
HIGH		\$ (720.00)	150.00%
		\$ (480.00)	108.57%
		\$ (250.00)	106.25%
LOW		\$ 3,250.00	79.17%
		\$ (200.00)	116.67%
LOW		\$ 350.00	70.83%
LOW		\$ 6,006.00	74.00%
LOW		\$ 12,420.00	42.50%
		\$ (390.00)	115.00%
		\$ (31.00)	101.82%
LOW		\$ 108.50	76.67%
LOW		\$ 13,662.00	13.75%
HIGH		\$ (4,900.00)	240.00%
HIGH		\$ (1,000.00)	266.67%
HIGH		\$ (3,000.00)	340.00%
HIGH		\$ (500.00)	200.00%
HIGH		\$ (1,500.00)	225.00%
HIGH		\$ (950.00)	226.67%
		\$ 50.00	96.00%
	MAJOR	\$ (4,000.00)	101.60%
HIGH		\$ (720.00)	140.00%
HIGH		\$ (11,640.00)	133.33%
LOW		\$ 6,529.50	70.00%
HIGH		\$ (8,000.00)	140.00%
		\$ 13,800.00	84.67%

Low Bid Analysis

M.J. Engineering & Land Surveying, P.C.

Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project
12/21/2022

ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
619.27	MAILBOXES	EACH	9	\$ 250.00	\$ 2,250.00
620.0802	BEDDING MATERIAL, TYPE 2	CY	15	\$ 100.00	\$ 1,500.00
620.03	STONE FILLING (LIGHT)	CY	35	\$ 110.00	\$ 3,850.00
621.03	CLEANING CLOSED DRAINAGE SYSTEMS	LF	1,790	\$ 5.00	\$ 8,950.00
621.04	CLEANING DRAINAGE STRUCTURES	EACH	21	\$ 300.00	\$ 6,300.00
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	25	\$ 165.00	\$ 4,125.00
624.01	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS	SF	3,770	\$ 20.00	\$ 75,400.00
625.01	SURVEY OPERATIONS	LS	1	\$ 50,000.00	\$ 50,000.00
625.04	CONCRETE RIGHT-OF-WAY MARKER TYPE L (LOW)	EACH	7	\$ 450.00	\$ 3,150.00
627.50140008	CUTTING PAVEMENT	LF	5,090	\$ 2.50	\$ 12,725.00
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	18	\$ 2,000.00	\$ 36,000.00
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 32 SF, WITH Z-BARS	SF	300	\$ 45.00	\$ 13,500.00
645.73000001	ORNAMENTAL SIGN	EACH	2	\$ 5,000.00	\$ 10,000.00
645.81	TYPE A SIGN POSTS	EACH	49	\$ 200.00	\$ 9,800.00
646.21	REFERENCE MARKER PANEL	EACH	6	\$ 40.00	\$ 240.00
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	EACH	9	\$ 40.00	\$ 360.00
646.32	STEEL POST, 2.0 LB/FT	EACH	14	\$ 75.00	\$ 1,050.00
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30SQUARE FEET)	EACH	8	\$ 100.00	\$ 800.00
647.51	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I(UNDER 30 SQUARE FEET)	EACH	24	\$ 50.00	\$ 1,200.00
647.01000102	REMOVE AND DISPOSE COMMERCIAL SIGN STRUCTURE	EACH	2	\$ 750.00	\$ 1,500.00
647.83001002	REMOVAL AND DISPOSAL OF DELINEATORS AND/OR REFERENCE MARKERSWITH OR WITHOUT POSTS	EACH	20	\$ 20.00	\$ 400.00
655.05010010	RESETTING EXISTING SANITARY SEWER MANHOLE CASTINGS	EACH	5	\$ 1,000.00	\$ 5,000.00
655.0704	CAST FRAME F1, UNMOUNTABLE CURB BOX CU1 & RETICULINEGRATE G1	EACH	5	\$ 1,500.00	\$ 7,500.00
655.0705	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINEGRATE G2	EACH	18	\$ 1,700.00	\$ 30,600.00
655.1103	WELDED FRAME AND RETICULINE GRATE 3	EACH	3	\$ 900.00	\$ 2,700.00
655.1116	WELDED FRAME AND RETICULINE GRATE 16	EACH	5	\$ 1,250.00	\$ 6,250.00
655.1201	MANHOLE FRAME AND GRATE	EACH	1	\$ 1,200.00	\$ 1,200.00
655.1202	MANHOLE FRAME AND COVER	EACH	13	\$ 1,100.00	\$ 14,300.00
661.01000108	REESTABLISHING ELECTRICAL SERVICE TO CUSTOMERS	LS	1	\$ 21,000.00	\$ 21,000.00
662.60030008	ALTERING ELEVATION OF GAS VALVE BOXES	EACH	17	\$ 400.00	\$ 6,800.00
662.60510008	ADJUST MANHOLE TO GRADE (TELEPHONE)	EACH	5	\$ 700.00	\$ 3,500.00
663.0106	DUCTILE IRON CEMENT LINED WATER PIPE, 6"	LF	77	\$ 150.00	\$ 11,550.00
663.0112	DUCTILE IRON CEMENT LINED WATER PIPE, 12"	LF	18	\$ 200.00	\$ 3,600.00
663.0603	COPPER WATER SERVICE PIPE 3/4"	LF	30	\$ 50.00	\$ 1,500.00
663.0604	COPPER WATER SERVICE PIPE 1"	LF	97	\$ 70.00	\$ 6,790.00
663.0607	COPPER WATER SERVICE PIPE 2"	LF	135	\$ 90.00	\$ 12,150.00
663.1206	DOUBLE DISK GATE VALVE & VALVE BOX, 6 " IF NEEDED	EACH	1	\$ 700.00	\$ 700.00
663.1301	HYDRANT	EACH	1	\$ 6,000.00	\$ 6,000.00
663.160606	TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 6" X 6"	EACH	6	\$ 6,500.00	\$ 39,000.00
663.2001	IRON WATER MAIN FITTINGS (3 " - 8 ")	LB	450	\$ 10.00	\$ 4,500.00
663.2002	IRON WATER MAIN FITTINGS (10" - 16")	LB	880	\$ 15.00	\$ 13,200.00
663.2503	WATER SERVICE CONNECTION, 3/4"	EACH	1	\$ 1,000.00	\$ 1,000.00
663.2504	WATER SERVICE CONNECTION, 1"	EACH	1	\$ 1,500.00	\$ 1,500.00
663.2507	WATER SERVICE CONNECTION, 2"	EACH	1	\$ 3,000.00	\$ 3,000.00
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EACH	17	\$ 300.00	\$ 5,100.00
663.40	DISCONNECT AND CAP EXISTING WATER MAIN	EACH	1	\$ 1,500.00	\$ 1,500.00
663.4106	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 6"	LF	66	\$ 25.00	\$ 1,650.00
663.4112	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12"	LF	18	\$ 50.00	\$ 900.00
663.42	REMOVE AND DISPOSE OF EXISTING WATER VALVE & VALVE BOX IF NEEDED	EACH	1	\$ 300.00	\$ 300.00
663.43	REMOVE AND DISPOSE OF EXISTING HYDRANT	EACH	1	\$ 1,000.00	\$ 1,000.00

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 170.00	\$ 1,530.00
\$ 55.00	\$ 825.00
\$ 145.00	\$ 5,075.00
\$ 11.50	\$ 20,585.00
\$ 235.00	\$ 4,935.00
\$ 70.00	\$ 1,750.00
\$ 14.00	\$ 52,780.00
\$ 50,000.00	\$ 50,000.00
\$ 450.00	\$ 3,150.00
\$ 3.20	\$ 16,288.00
\$ 2,600.00	\$ 46,800.00
\$ 60.00	\$ 18,000.00
\$ 2,900.00	\$ 5,800.00
\$ 235.00	\$ 11,515.00
\$ 40.00	\$ 240.00
\$ 21.00	\$ 189.00
\$ 94.00	\$ 1,316.00
\$ 18.00	\$ 144.00
\$ 29.00	\$ 696.00
\$ 580.00	\$ 1,160.00
\$ 23.00	\$ 460.00
\$ 1,100.00	\$ 5,500.00
\$ 1,830.00	\$ 9,150.00
\$ 2,270.00	\$ 40,860.00
\$ 1,400.00	\$ 4,200.00
\$ 1,730.00	\$ 8,650.00
\$ 990.00	\$ 990.00
\$ 880.00	\$ 11,440.00
\$ 8,400.00	\$ 8,400.00
\$ 380.00	\$ 6,460.00
\$ 980.00	\$ 4,900.00
\$ 120.00	\$ 9,240.00
\$ 280.00	\$ 5,040.00
\$ 89.00	\$ 2,670.00
\$ 95.00	\$ 9,215.00
\$ 115.00	\$ 15,525.00
\$ 4,300.00	\$ 4,300.00
\$ 9,100.00	\$ 9,100.00
\$ 8,400.00	\$ 50,400.00
\$ 7.00	\$ 3,150.00
\$ 8.00	\$ 7,040.00
\$ 820.00	\$ 820.00
\$ 900.00	\$ 900.00
\$ 1,150.00	\$ 1,150.00
\$ 340.00	\$ 5,780.00
\$ 2,900.00	\$ 2,900.00
\$ 43.00	\$ 2,838.00
\$ 70.00	\$ 1,260.00
\$ 350.00	\$ 350.00
\$ 1,150.00	\$ 1,150.00

High/Low Bid Items	Major Item	Difference Eng. Est. to Low Bidder	Ratio Low Bid to Eng. Est.
LOW		\$ 720.00	68.00%
LOW		\$ 675.00	55.00%
HIGH		\$ (1,225.00)	131.82%
HIGH		\$ (11,635.00)	230.00%
LOW		\$ 1,365.00	78.33%
LOW		\$ 2,375.00	42.42%
LOW		\$ 22,620.00	70.00%
		\$ -	100.00%
		\$ -	100.00%
HIGH		\$ (3,563.00)	128.00%
HIGH		\$ (10,800.00)	130.00%
HIGH		\$ (4,500.00)	133.33%
LOW		\$ 4,200.00	58.00%
		\$ (1,715.00)	117.50%
		\$ -	100.00%
LOW		\$ 171.00	52.50%
HIGH		\$ (266.00)	125.33%
LOW		\$ 656.00	18.00%
LOW		\$ 504.00	58.00%
LOW		\$ 340.00	77.33%
		\$ (60.00)	115.00%
		\$ (500.00)	110.00%
		\$ (1,650.00)	122.00%
HIGH		\$ (10,260.00)	133.53%
HIGH		\$ (1,500.00)	155.56%
HIGH		\$ (2,400.00)	138.40%
		\$ 210.00	82.50%
		\$ 2,860.00	80.00%
LOW		\$ 12,600.00	40.00%
		\$ 340.00	95.00%
HIGH		\$ (1,400.00)	140.00%
		\$ 2,310.00	80.00%
HIGH		\$ (1,440.00)	140.00%
HIGH		\$ (1,170.00)	178.00%
HIGH		\$ (2,425.00)	135.71%
HIGH		\$ (3,375.00)	127.78%
HIGH		\$ (3,600.00)	614.29%
HIGH		\$ (3,100.00)	151.67%
HIGH		\$ (11,400.00)	129.23%
LOW		\$ 1,350.00	70.00%
LOW		\$ 6,160.00	53.33%
		\$ 180.00	82.00%
LOW		\$ 600.00	60.00%
LOW		\$ 1,850.00	38.33%
		\$ (680.00)	113.33%
HIGH		\$ (1,400.00)	193.33%
HIGH		\$ (1,188.00)	172.00%
HIGH		\$ (360.00)	140.00%
		\$ (50.00)	116.67%
		\$ (150.00)	115.00%

Low Bid Analysis					
M.J. Engineering & Land Surveying, P.C.					
Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project					
12/21/2022					
ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
663.44	REMOVE AND DISPOSE OF EXISTING WATER SERVICE CONNECTION	EACH	3	\$ 1,000.00	\$ 3,000.00
670.0107	FOUNDATION FOR LIGHT STANDARDS, 7 FEET LONG	EACH	10	\$ 2,500.00	\$ 25,000.00
670.01360039	LED ROADWAY LUMINAIRE	EACH	12	\$ 1,000.00	\$ 12,000.00
670.1136	ALUMINUM LIGHT STANDARDS FOR SINGLE MEMBER OR TRUSS ARM(S),36 FEET HIGH	EACH	10	\$ 3,000.00	\$ 30,000.00
670.1312	ALUMINUM TRUSSED ARM, 12 FEET LONG	EACH	12	\$ 1,000.00	\$ 12,000.00
670.19	BREAKAWAY TRANSFORMER BASE (ALUMINUM)	EACH	10	\$ 700.00	\$ 7,000.00
670.2602	RIGID PLASTIC CONDUIT, 2"	LF	4,698	\$ 6.00	\$ 28,188.00
670.3020	PULLBOXES 10.1 CUBIC FEET TO 15 CUBIC FEET,INSIDE VOLUME (LIGHTING)	EACH	34	\$ 1,250.00	\$ 42,500.00
670.60	PHOTOELECTRIC CONTROLS	EACH	12	\$ 100.00	\$ 1,200.00
670.7006	SINGLE CONDUCTOR CABLE, NUMBER 10 GAGE	LF	4,698	\$ 2.50	\$ 11,745.00
670.7501	GROUND WIRE NO. 6 AWG	LF	4,698	\$ 4.00	\$ 18,792.00
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EACH	3	\$ 25,000.00	\$ 75,000.00
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	60	\$ 1,500.00	\$ 90,000.00
680.5002	CONCRETE BASE FOR CONTROLLER CABINET	EACH	3	\$ 3,000.00	\$ 9,000.00
680.510501	PULLBOX-RECTANGULAR, 26 X 18 INCH, REINFORCEDCONCRETE	EACH	13	\$ 1,500.00	\$ 19,500.00
680.520103	CONDUIT, METAL STEEL, ZINC COATED, 1"	LF	80	\$ 25.00	\$ 2,000.00
680.520506	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 2"	LF	800	\$ 12.00	\$ 9,600.00
680.520508	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 3"	LF	105	\$ 20.00	\$ 2,100.00
680.601129	TRAFFIC SIGNAL POLE-SPAN WIRE 11,000 POUND LOAD, 29 FEETLONG	EACH	1	\$ 13,000.00	\$ 13,000.00
680.601131	TRAFFIC SIGNAL POLE-SPAN WIRE 11,000 POUND LOAD, 31 FEETLONG	EACH	1	\$ 13,000.00	\$ 13,000.00
680.601431	TRAFFIC SIGNAL POLE-SPAN WIRE 14,000 POUND LOAD, 31 FEETLONG	EACH	1	\$ 15,000.00	\$ 15,000.00
680.601432	TRAFFIC SIGNAL POLE-SPAN WIRE 14,000 POUND LOAD, 32 FEETLONG	EACH	1	\$ 15,000.00	\$ 15,000.00
680.601532	TRAFFIC SIGNAL POLE-SPAN WIRE 15,000 POUND LOAD, 32 FEETLONG	EACH	1	\$ 18,000.00	\$ 18,000.00
680.601535	TRAFFIC SIGNAL POLE-SPAN WIRE 15,000 POUND LOAD, 35 FEETLONG	EACH	1	\$ 18,000.00	\$ 18,000.00
680.6708	TRAFFIC SIGNAL POLE POST TOP MOUNT, 8 FEET MOUNTING HEIGHT	EACH	9	\$ 1,200.00	\$ 10,800.00
680.7002	DUAL SPAN WIRE ASSEMBLY WITH UPPER TETHER WIRE	EACH	3	\$ 1,900.00	\$ 5,700.00
680.730314	SIGNAL CABLE 3 CONDUCTORS, 14 AWG	LF	865	\$ 3.00	\$ 2,595.00
680.730514	SIGNAL CABLE 5 CONDUCTORS, 14 AWG	LF	3,235	\$ 4.00	\$ 12,940.00
680.731014	SIGNAL CABLE 10 CONDUCTORS, 14 AWG	LF	345	\$ 5.00	\$ 1,725.00
680.731514	SIGNAL CABLE 15 CONDUCTORS, 14 AWG	LF	195	\$ 7.00	\$ 1,365.00
680.732014	SIGNAL CABLE 20 CONDUCTORS, 14 AWG	LF	110	\$ 8.00	\$ 880.00
680.77000001	MODIFY TRAFFIC SIGNAL EQUIPMENT	LS	1	\$ 13,400.00	\$ 13,400.00
680.78000001	MODIFY AND REMOVE TRAFFIC SIGNAL EQUIPMENT	LS	1	\$ 25,000.00	\$ 25,000.00
680.80310008	FURNISH AND INSTALL MICROCOMPUTER (MODEL 2070)COMPLETE WITH STRETCH-TYPE CABINET	EACH	3	\$ 15,000.00	\$ 45,000.00
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EACH	26	\$ 150.00	\$ 3,900.00
680.810102	TRAFFIC SIGNAL MODULE - 12 INCH, RED ARROW, LED	EACH	11	\$ 150.00	\$ 1,650.00
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EACH	26	\$ 150.00	\$ 3,900.00
680.810104	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW ARROW, LED	EACH	24	\$ 150.00	\$ 3,600.00
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EACH	26	\$ 150.00	\$ 3,900.00
680.810106	TRAFFIC SIGNAL MODULE - 12 INCH GREEN ARROW, LED	EACH	13	\$ 150.00	\$ 1,950.00
680.810107	TRAFFIC SIGNAL SECTION - TYPE I, 12 INCH	EACH	126	\$ 200.00	\$ 25,200.00
680.810308	INSTALL BALL/ARROW LED TRAFFIC SIGNAL MODULE	EACH	126	\$ 60.00	\$ 7,560.00
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EACH	23	\$ 300.00	\$ 6,900.00
680.8112	TRAFFIC SIGNAL BRACKET ASSEMBLY - 2 WAY	EACH	2	\$ 400.00	\$ 800.00
680.8113	TRAFFIC SIGNAL BRACKET ASSEMBLY - 3 WAY	EACH	2	\$ 800.00	\$ 1,600.00
680.8114	TRAFFIC SIGNAL BRACKET ASSEMBLY - 4 WAY	EACH	1	\$ 1,200.00	\$ 1,200.00
680.8120	TRAFFIC SIGNAL DISCONNECT HANGER	EACH	28	\$ 150.00	\$ 4,200.00
680.813103	PEDESTRIAN SIGNAL SECTION - TYPE I, 12 INCH	EACH	32	\$ 175.00	\$ 5,600.00
680.813104	INSTALL LED PEDESTRIAN SIGNAL MODULE	EACH	32	\$ 60.00	\$ 1,920.00
680.813105	PEDESTRIAN SIGNAL MODULE - 12 INCH BI-MODAL,HAND/MAN SYMBOLS LED	EACH	16	\$ 200.00	\$ 3,200.00

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 1,650.00	\$ 4,950.00
\$ 1,650.00	\$ 16,500.00
\$ 620.00	\$ 7,440.00
\$ 3,100.00	\$ 31,000.00
\$ 1,100.00	\$ 13,200.00
\$ 800.00	\$ 8,000.00
\$ 8.50	\$ 39,933.00
\$ 1,650.00	\$ 56,100.00
\$ 85.00	\$ 1,020.00
\$ 5.70	\$ 26,778.60
\$ 6.50	\$ 30,537.00
\$ 24,000.00	\$ 72,000.00
\$ 1,400.00	\$ 84,000.00
\$ 1,800.00	\$ 5,400.00
\$ 1,500.00	\$ 19,500.00
\$ 34.00	\$ 2,720.00
\$ 8.50	\$ 6,800.00
\$ 35.00	\$ 3,675.00
\$ 16,500.00	\$ 16,500.00
\$ 16,500.00	\$ 16,500.00
\$ 20,000.00	\$ 20,000.00
\$ 20,000.00	\$ 20,000.00
\$ 22,000.00	\$ 22,000.00
\$ 22,000.00	\$ 22,000.00
\$ 1,250.00	\$ 11,250.00
\$ 2,900.00	\$ 8,700.00
\$ 2.90	\$ 2,508.50
\$ 5.70	\$ 18,439.50
\$ 6.00	\$ 2,070.00
\$ 11.40	\$ 2,223.00
\$ 15.00	\$ 1,650.00
\$ 1,700.00	\$ 1,700.00
\$ 21,000.00	\$ 21,000.00
\$ 27,000.00	\$ 81,000.00
\$ 70.00	\$ 1,820.00
\$ 75.00	\$ 825.00
\$ 75.00	\$ 1,950.00
\$ 75.00	\$ 1,800.00
\$ 82.00	\$ 2,132.00
\$ 82.00	\$ 1,066.00
\$ 220.00	\$ 27,720.00
\$ 74.00	\$ 9,324.00
\$ 470.00	\$ 10,810.00
\$ 670.00	\$ 1,340.00
\$ 1,000.00	\$ 2,000.00
\$ 1,400.00	\$ 1,400.00
\$ 1,150.00	\$ 32,200.00
\$ 250.00	\$ 8,000.00
\$ 75.00	\$ 2,400.00
\$ 175.00	\$ 2,800.00

High/Low Bid Items	Major Item	Difference Eng. Est. to Low Bidder	Ratio Low Bid to Eng. Est.
HIGH		\$ (1,950.00)	165.00%
LOW		\$ 8,500.00	66.00%
LOW		\$ 4,560.00	62.00%
		\$ (1,000.00)	103.33%
		\$ (1,200.00)	110.00%
		\$ (1,000.00)	114.29%
HIGH		\$ (11,745.00)	141.67%
HIGH		\$ (13,600.00)	132.00%
		\$ 180.00	85.00%
HIGH		\$ (15,033.60)	228.00%
HIGH		\$ (11,745.00)	162.50%
		\$ 3,000.00	96.00%
		\$ 6,000.00	93.33%
LOW		\$ 3,600.00	60.00%
		\$ -	100.00%
HIGH		\$ (720.00)	136.00%
LOW		\$ 2,800.00	70.83%
HIGH		\$ (1,575.00)	175.00%
HIGH		\$ (3,500.00)	126.92%
HIGH		\$ (3,500.00)	126.92%
HIGH		\$ (5,000.00)	133.33%
HIGH		\$ (5,000.00)	133.33%
		\$ (4,000.00)	122.22%
		\$ (4,000.00)	122.22%
		\$ (450.00)	104.17%
HIGH		\$ (3,000.00)	152.63%
		\$ 86.50	96.67%
HIGH		\$ (5,499.50)	142.50%
		\$ (345.00)	120.00%
HIGH		\$ (858.00)	162.86%
HIGH		\$ (770.00)	187.50%
LOW		\$ 11,700.00	12.69%
		\$ 4,000.00	84.00%
HIGH		\$ (36,000.00)	180.00%
LOW		\$ 2,080.00	46.67%
LOW		\$ 825.00	50.00%
LOW		\$ 1,950.00	50.00%
LOW		\$ 1,800.00	50.00%
LOW		\$ 1,768.00	54.67%
LOW		\$ 884.00	54.67%
		\$ (2,520.00)	110.00%
		\$ (1,764.00)	123.33%
HIGH		\$ (3,910.00)	156.67%
HIGH		\$ (540.00)	167.50%
		\$ (400.00)	125.00%
		\$ (200.00)	116.67%
HIGH		\$ (28,000.00)	766.67%
HIGH		\$ (2,400.00)	142.86%
		\$ (480.00)	125.00%
		\$ 400.00	87.50%

Low Bid Analysis

M.J. Engineering & Land Surveying, P.C.

Watervliet Shaker Road (CR157) Phase III Roadway Improvement Project
12/21/2022

ITEM	DESCRIPTION	UNIT	Total QTY	Unit Cost	Total Cost
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	6	\$ 175.00	\$ 1,050.00
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EACH	9	\$ 200.00	\$ 1,800.00
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	16	\$ 200.00	\$ 3,200.00
680.81990008	TRAFFIC SIGNAL BACK PLATES WITH YELLOW REFLECTIVE TAPE	EACH	37	\$ 200.00	\$ 7,400.00
680.8209	OVERHEAD SIGN ASSEMBLY, TYPE I	EACH	14	\$ 1,000.00	\$ 14,000.00
680.8225	PEDESTRIAN PUSHBUTTON AND SIGN - WITHOUT POST	EACH	12	\$ 1,000.00	\$ 12,000.00
680.8226	PEDESTRIAN PUSHBUTTON AND SIGN - WITH POST	EACH	4	\$ 1,250.00	\$ 5,000.00
680.82208304	SOLAR POWERED FLASHING BEACON ASSEMBLY - 8IN BEACON	EACH	2	\$ 7,500.00	\$ 15,000.00
680.90920008	ELECTRIC METER SOCKET, 200 AMP, SINGLE PHASE, 240/120VOLT W/ BYPASS SWITCH FOR SIGNAL INSTALLATIONS	EACH	3	\$ 750.00	\$ 2,250.00
680.93500101	SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	EACH	2	\$ 3,000.00	\$ 6,000.00
680.93500301	REMOTE ANTENNA CABLE FOR SPREAD SPECTRUM WIRELESS TRAFFICCONTROL	LF	100	\$ 12.00	\$ 1,200.00
680.94997008	FURNISH AND INSTALL ELECTRICAL DISCONNECT GENERATOR TRANSFERSWITCH	EACH	3	\$ 1,000.00	\$ 3,000.00
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	25,815	\$ 1.00	\$ 25,815.00
685.12	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	16,730	\$ 1.00	\$ 16,730.00
685.13	WHITE EPOXY REFLECTORIZED PAVEMENT LETTERS - 20 MILS	EACH	64	\$ 50.00	\$ 3,200.00
685.14	WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS - 20 MILS	EACH	53	\$ 150.00	\$ 7,950.00
697.03	FIELD CHANGE PAYMENT	DC	1	\$ 318,720.58	\$ 318,720.58
698.04	ASPHALT PRICE ADJUSTMENT	DC	1	\$ 30,000.00	\$ 30,000.00
698.05	FUEL PRICE ADJUSTMENT	DC	1	\$ 110,000.00	\$ 110,000.00
699.040001	MOBILIZATION	LS	1	\$ 273,325.28	\$ 274,000.00

Total:	\$7,107,132.08
Rounded:	\$7,108,000.00

\$ 7,338,482.95

Peter Luizzi & Bros Contracting Inc	
Unit Price	Total Price
\$ 250.00	\$ 1,500.00
\$ 240.00	\$ 2,160.00
\$ 190.00	\$ 3,040.00
\$ 430.00	\$ 15,910.00
\$ 1,050.00	\$ 14,700.00
\$ 780.00	\$ 9,360.00
\$ 2,000.00	\$ 8,000.00
\$ 15,000.00	\$ 30,000.00
\$ 950.00	\$ 2,850.00
\$ 6,300.00	\$ 12,600.00
\$ 8.20	\$ 820.00
\$ 850.00	\$ 2,550.00
\$ 3.20	\$ 82,608.00
\$ 2.10	\$ 35,133.00
\$ 82.00	\$ 5,248.00
\$ 230.00	\$ 12,190.00
\$ 319,000.00	\$ 319,000.00
\$ 30,000.00	\$ 30,000.00
\$ 110,000.00	\$ 110,000.00
\$ 273,000.00	\$ 273,000.00

High/Low Bid Items	Major Item	Difference Eng. Est. to Low Bidder	Ratio Low Bid to Eng. Est.
HIGH		\$ (450.00)	142.86%
		\$ (360.00)	120.00%
		\$ 160.00	95.00%
HIGH		\$ (8,510.00)	215.00%
		\$ (700.00)	105.00%
LOW		\$ 2,640.00	78.00%
HIGH		\$ (3,000.00)	160.00%
HIGH		\$ (15,000.00)	200.00%
HIGH		\$ (600.00)	126.67%
HIGH		\$ (6,600.00)	210.00%
LOW		\$ 380.00	68.33%
		\$ 450.00	85.00%
HIGH		\$ (56,793.00)	320.00%
HIGH		\$ (18,403.00)	210.00%
HIGH		\$ (2,048.00)	164.00%
HIGH		\$ (4,240.00)	153.33%
	MAJOR	\$ (279.42)	100.09%
		\$ -	100.00%
		\$ -	100.00%
	MAJOR	\$ 1,000.00	99.64%

I, representing M.J. Engineering & Land Surveying, P.C., acting on behalf of the County of Albany, hereby certify that this contract was bid in accordance with the applicable competitive bidding procedures and all Federal and State rules and regulations pursuant thereto, and that this tabulation includes all bids received at the public bid opening held at the Albany County Purchasing Agent, Room 1000, 112 State Street, Albany, New York 12207 at 11:00 AM on Thursday, 12/15/2022 for a contract in the County of Albany for the project identified as Watervliet Shaker Road (CR157) Phase III Highway Improvement Project.

Signature:Eric Williams, P.E.

Vice President

December 21, 2022Date