

City of Canton Water Department  
**Avondale Area Phase II Water Main Replacement Project**

**Engineer's Estimate: Alternate 'A' = \$1,673,611.00**

Alternate 'B' = \$1,777,211.00

				WENGER EXCAVATING INC.				HM MILLER CONSTRUCTION CO.				CENTRAL ALLIED ENTERPRISES INC				KARVO COMPANIES INC				LOCKHART CONCRETE CO.				
(1) Bid	(2) ODOT Item	(2B) Description	(3) Qty	(4) Unit	(5) Labor	(6) Material	(7=5+6) Total Unit Price	(8=3x7) Total Amount	(5) Labor	(6) Material	(7=5+6) Total Unit Price	(8=3x7) Total Amount	(5) Labor	(6) Material	(7=5+6) Total Unit Price	(8=3x7) Total Amount	Written Amount	(5) Labor	(6) Material	(7=5+6) Total Unit Price	(8=3x7) Total Amount	Written Amount		
Roadway																								
1	201	Cleaning and Grubbing	1	Lump	\$4,234.00	\$0.00	\$4,234.00	\$4,234.00	\$100.00	\$100.00	\$200.00	\$200.00	\$50,000.00	\$30,000.00	\$80,000.00	\$2,500.00	\$2,500.00	\$5,000.00	\$2,500.00	\$2,000.00	\$4,500.00	\$4,500.00		
2	202	Curb and Gutter Removed	35	Foot	\$4.50	\$0.00	\$4.50	\$157.50	\$2.50	\$2.50	\$5.00	\$175.00	\$20.00	\$14.00	\$34.00	\$1,190.00	\$280.00	\$5,000.00	\$5.00	\$5.00	\$10.00	\$350.00		
3	301	Asphalt Concrete Base, PG 64-22	1179	C.Y	\$21.40	\$88.60	\$110.00	\$129,690.00	\$100.00	\$155.00	\$255.00	\$300,645.00	\$65.00	\$100.00	\$165.00	\$194,535.00	\$100.00	\$100.00	\$200.00	\$150.00	\$100.00	\$250.00	\$294,750.00	
4	304	Aggregate Base	553	C.Y	\$8.40	\$46.80	\$55.20	\$30,525.60	\$15.00	\$20.00	\$35.00	\$19,355.00	\$18.00	\$25.00	\$43.00	\$23,779.00	\$37.50	\$37.50	\$75.00	\$25.00	\$20.00	\$45.00	\$24,885.00	
5	407	Tack Coat (0.15 Gal./S.Y.)	322	Gal	\$1.20	\$1.10	\$2.30	\$740.60	\$1.50	\$1.00	\$2.50	\$805.00	\$0.55	\$2.00	\$2.55	\$821.10	\$1.25	\$1.25	\$2.50	\$3.00	\$2.00	\$5.00	\$1,610.00	
6	448	Asphalt Concrete Surface Course, Type 1, PG 64-28 (Non-Reinforced Concrete Pavement (Drive Apron) (Complete)	91	C.Y	\$28.80	\$172.80	\$199.60	\$18,163.60	\$160.00	\$210.00	\$360.00	\$32,760.00	\$120.00	\$180.00	\$300.00	\$27,300.00	\$292.50	\$292.50	\$585.00	\$147.50	\$147.50	\$295.00	\$26,845.00	
7	452	Combination Curb and Gutter, Type 2	31	S.Y	\$32.20	\$33.00	\$65.20	\$2,021.20	\$38.00	\$25.00	\$63.00	\$1,953.00	\$42.00	\$80.00	\$122.00	\$3,782.00	\$37.50	\$37.50	\$75.00	\$40.00	\$30.00	\$70.00	\$2,170.00	
8	609	Combination Curb and Gutter, Type 2	35	Foot	\$19.60	\$33.40	\$53.00	\$1,665.00	\$20.00	\$15.00	\$35.00	\$1,225.00	\$20.35	\$28.00	\$48.35	\$1,622.25	\$25.00	\$25.00	\$50.00	\$30.00	\$20.00	\$50.00	\$1,750.00	
9	653	4" Topsoil Fumished and Placed	1	Lump	\$2,659.00	\$5,564.00	\$8,223.00	\$8,223.00	\$8,000.00	\$8,750.00	\$16,750.00	\$31,000.00	\$12,000.00	\$19,000.00	\$31,000.00	\$16,000.00	\$16,000.00	\$32,000.00	\$2,500.00	\$2,500.00	\$5,000.00	\$5,000.00		
10	659	Seedling and Mulching	1	Lump	\$10,724.00	\$13,224.00	\$23,948.00	\$23,948.00	\$5,000.00	\$6,150.00	\$11,150.00	\$11,150.00	\$7,000.00	\$12,000.00	\$19,000.00	\$4,000.00	\$4,000.00	\$8,000.00	\$2,500.00	\$2,500.00	\$5,000.00	\$5,000.00		
11	SPCL	Asphalt Curb Removed and Replaced (Contingency Item)	1730	Foot	\$2.40	\$4.20	\$6.60	\$11,418.00	\$5.00	\$8.00	\$13.00	\$22,490.00	\$7.00	\$10.00	\$17.00	\$29,410.00	\$3.87	\$3.88	\$7.75	\$8.00	\$7.00	\$15.00	\$25,950.00	
Water Work																								
12	638	2" Blow-Off Assembly	1	Each	\$376.00	\$898.00	\$1,076.00	\$1,076.00	\$500.00	\$750.00	\$1,250.00	\$1,250.00	\$500.00	\$765.00	\$1,265.00	\$1,265.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00		
13	638	1" Polyethylene Service Branch w/Fittings, Curb Valve and Roadway Box, Complete	4025	Foot	\$14.70	\$14.80	\$29.50	\$118,737.50	\$30.00	\$7.00	\$37.00	\$148,925.00	\$17.00	\$20.00	\$37.00	\$148,925.00	\$31.00	\$31.00	\$62.00	\$5.00	\$5.00	\$10.00	\$40,250.00	
14	638	16" x 8" Tapping Sleeve	1	Each	\$1,599.00	\$3,762.00	\$5,361.00	\$5,361.00	\$2,000.00	\$2,260.00	\$4,260.00	\$4,260.00	\$2,360.00	\$3,000.00	\$5,360.00	\$5,360.00	\$5,000.00	\$5,000.00	\$10,000.00	\$1,500.00	\$1,000.00	\$2,500.00	\$2,500.00	
15	638	2" Tap Including Corp. Stop, As Per Plan	1	Each	\$307.00	\$321.00	\$628.00	\$628.00	\$250.00	\$350.00	\$600.00	\$600.00	\$400.00	\$320.00	\$720.00	\$720.00	\$300.00	\$300.00	\$600.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	
16	638	2" Polyethylene Service Branch	234	Foot	\$15.20	\$16.90	\$32.10	\$7,511.40	\$25.00	\$10.50	\$35.50	\$8,307.00	\$7.00	\$10.00	\$17.00	\$3,978.00	\$17.50	\$17.50	\$35.00	\$6.00	\$6.00	\$12.00	\$2,808.00	
17	638	2" Curb Valve	1	Each	\$264.00	\$377.00	\$641.00	\$641.00	\$250.00	\$250.00	\$500.00	\$500.00	\$360.00	\$500.00	\$860.00	\$860.00	\$215.00	\$215.00	\$430.00	\$170.00	\$170.00	\$340.00	\$340.00	
18	638	6"x8"x6" Tee	2	Each	\$204.00	\$506.00	\$710.00	\$1,420.00	\$135.00	\$250.00	\$385.00	\$770.00	\$300.00	\$310.00	\$610.00	\$1,220.00	\$187.50	\$187.50	\$375.00	\$165.00	\$100.00	\$265.00	\$530.00	
19	638	6"x8"x6" Tee	3	Each	\$202.00	\$478.00	\$680.00	\$2,040.00	\$135.00	\$185.00	\$320.00	\$660.00	\$220.00	\$300.00	\$520.00	\$1,560.00	\$187.50	\$187.50	\$375.00	\$143.00	\$143.00	\$286.00	\$568.00	
20	638	6"x6" Cross	2	Each	\$244.00	\$611.00	\$855.00	\$1,710.00	\$175.00	\$250.00	\$425.00	\$850.00	\$220.00	\$330.00	\$550.00	\$1,100.00	\$200.00	\$200.00	\$400.00	\$205.00	\$205.00	\$410.00	\$820.00	
21	638	6"x8" Cross	1	Each	\$250.00	\$632.00	\$882.00	\$882.00	\$175.00	\$275.00	\$450.00	\$450.00	\$160.00	\$400.00	\$560.00	\$560.00	\$225.00	\$225.00	\$450.00	\$190.00	\$190.00	\$380.00	\$380.00	
22	638	8" - 11.25" Bend	4	Each	\$102.00	\$200.00	\$302.00	\$1,208.00	\$110.00	\$135.00	\$245.00	\$980.00	\$170.00	\$200.00	\$370.00	\$1,480.00	\$142.50	\$142.50	\$285.00	\$80.00	\$80.00	\$160.00	\$640.00	
23	638	8" - 22.5" Bend	5	Each	\$103.00	\$203.00	\$306.00	\$1,530.00	\$110.00	\$140.00	\$250.00	\$1,250.00	\$175.00	\$200.00	\$375.00	\$1,875.00	\$145.00	\$145.00	\$290.00	\$100.00	\$95.00	\$185.00	\$925.00	
24	638	8" - 45" Bend	9	Each	\$106.00	\$207.00	\$313.00	\$2,817.00	\$110.00	\$140.00	\$250.00	\$2,250.00	\$175.00	\$200.00	\$375.00	\$3,375.00	\$145.00	\$145.00	\$290.00	\$100.00	\$94.00	\$194.00	\$1,746.00	
25	638	8" Plug	5	Each	\$112.00	\$221.00	\$333.00	\$1,665.00	\$70.00	\$75.00	\$145.00	\$725.00	\$195.00	\$200.00	\$395.00	\$1,975.00	\$137.50	\$137.50	\$275.00	\$55.00	\$50.00	\$105.00	\$525.00	
26	638	8" Gate Valve and Valve Box, Complete	18	Each	\$317.00	\$1,298.00	\$1,615.00	\$29,070.00	\$150.00	\$335.00	\$1,085.00	\$19,530.00	\$625.00	\$800.00	\$1,425.00	\$27,450.00	\$550.00	\$550.00	\$1,100.00	\$750.00	\$750.00	\$1,500.00	\$27,000.00	
27	638	6" Gate Valve and Valve Box, Complete	13	Each	\$314.00	\$1,004.00	\$1,318.00	\$17,134.00	\$125.00	\$630.00	\$755.00	\$9,815.00	\$470.00	\$700.00	\$1,170.00	\$15,210.00	\$380.00	\$380.00	\$760.00	\$500.00	\$400.00	\$900.00	\$11,700.00	
28	638	6" - 11.25" Bend	8	Each	\$98.00	\$171.00	\$269.00	\$2,152.00	\$85.00	\$105.00	\$190.00	\$1,520.00	\$145.00	\$200.00	\$345.00	\$2,760.00	\$117.50	\$117.50	\$235.00	\$75.00	\$75.00	\$150.00	\$1,200.00	
29	638	6" - 22.5" Bend	12	Each	\$99.00	\$178.00	\$273.00	\$3,300.00	\$85.00	\$105.00	\$190.00	\$2,280.00	\$155.00	\$200.00	\$355.00	\$4,260.00	\$117.50	\$117.50	\$235.00	\$80.00	\$75.00	\$155.00	\$1,860.00	
30	638	6" - 45" Bend	15	Each	\$100.00	\$179.00	\$279.00	\$4,185.00	\$85.00	\$105.00	\$190.00	\$2,850.00	\$160.00	\$200.00	\$360.00	\$5,260.00	\$117.50	\$117.50	\$235.00	\$90.00	\$75.00	\$165.00	\$2,475.00	
31	638	6" Plug	6	Each	\$109.00	\$214.00	\$323.00	\$1,938.00	\$70.00	\$50.00	\$120.00	\$720.00	\$125.00	\$200.00	\$325.00	\$1,950.00	\$100.00	\$100.00	\$200.00	\$40.00	\$40.00	\$80.00	\$480.00	
32	638	6"x6" Reducer	3	Each	\$144.00	\$196.00	\$340.00	\$1,020.00	\$50.00	\$80.00	\$130.00	\$380.00	\$165.00	\$200.00	\$365.00	\$1,155.00	\$87.50	\$87.50	\$175.00	\$65.00	\$65.00	\$130.00	\$510.00	
33	638	Hydrant Assembly, Complete	20	Each	\$879.00	\$4,024.00	\$4,903.00	\$98,060.00	\$1,450.00	\$2,935.00	\$4,385.00	\$87,700.00	\$1,500.00	\$2,700.00	\$4,200.00	\$84,000.00	\$2,375.00	\$2,375.00	\$4,750.00	\$2,850.00	\$2,850.00	\$5,700.00	\$114,000.00	
34	638	Connect New Water-Main to Existing Water Main	4	Each	\$879.00	\$446.00	\$1,325.00	\$5,300.00	\$2,500.00	\$2,650.00	\$5,150.00	\$26,000.00	\$2,000.00	\$2,580.00	\$4,580.00	\$18,320.00	\$997.50	\$997.50	\$1,995.00	\$1,250.00	\$1,250.00	\$2,500.00	\$10,000.00	
35	638	Ex. Hydrant Removed, As Per Plan	9	Each	\$476.00	\$102.00	\$578.00	\$5,202.00	\$150.00	\$75.00	\$225.00	\$900.00	\$6,000.00	\$2,000.00	\$8,000.00	\$8,000.00	\$477.50	\$477.50	\$955.00	\$300.00	\$200.00	\$500.00	\$4,500.00	
36	638	Ex. Valve Abandoned, As Per Plan	28	Each	\$88.00	\$46.00	\$134.00	\$3,752.00	\$25.00	\$25.00	\$50.00	\$1,400.00	\$200.00	\$250.00	\$450.00	\$12,800.00	\$75.00	\$75.00	\$150.00	\$30.00	\$20.00	\$50.00	\$1,400.00	
37	638	Ex. Cross/Tree Removed, As Per Plan	2	Each	\$217.00	\$142.00	\$359.00	\$718.00	\$50.00	\$50.00	\$100.00	\$450.00	\$200.00	\$250.00	\$450.00	\$800.00	\$2,100.00	\$2,100.00	\$4,200.00	\$100.00	\$100.00	\$200.00	\$400.00	
38	SPCL	Ex. Water Vault Abandoned, As Per Plan	1	Each	\$2,987.00	\$677.00	\$3,664.00	\$3,664.00	\$500.00	\$525.00	\$1,025.00	\$1,525.00	\$525.00	\$1,000.00	\$1,525.00	\$3,400.00	\$3,400.00	\$6,800.00	\$300.00	\$200.00	\$500.00	\$500.00		
Incidentals																								
39	207	Erosion Control, Complete	1	LIUMP	\$7,868.00	\$10,024.00	\$17,892.00	\$17,892.00	\$500.00	\$1,875.00	\$2,375.00	\$2,375.00	\$250.00	\$675.00	\$925.00	\$925.00	\$7,500.00	\$7,500.00	\$15,000.00	\$15,000.00	\$2,000.00	\$2,000.00	\$2,000.00	
40	614	Maintaining Traffic, Complete	1	LIUMP	\$25,878.00	\$16,774.00	\$42,652.00	\$42,652.00	\$25,000.00	\$5,250.00	\$30,250.00	\$30,250.00	\$30,000.00	\$10,000.00	\$40,000.00	\$40,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$13,750.00	\$13,750.00	\$27,500.00	\$27,500.00	
41	623	Construction Layout Stakes	1	LIUMP	\$7,762.00	\$924.00	\$8,686.00	\$8,686.00	\$30,000.00	\$9,000.00	\$39,000.00	\$39,000.00	\$6,000.00	\$2,000.00	\$8,000.00	\$8,000.00	\$9,000.00	\$9,000.00	\$18,000.00	\$8,500.00	\$8,500.00	\$17,000.00	\$17,000.00	
42	624	Mobilization	1	LIUMP	\$24,047.00	\$25,442.00	\$49,489.00	\$49,489.00	\$65,000.00	\$20,500.00	\$85,500.00	\$85,500.00	\$16,000.00	\$4,500.00	\$20,500.00	\$20,500.00	\$115,000.00	\$115,000.00	\$115,000.00	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	
Alternate 'A'																								
43	638	6" Water Main, PVC, C908, Push-on Joints	4964	Foot	\$18.70	\$36.30	\$55.00	\$273,020.00	\$30.00	\$18.00	\$48.00	\$238,272.00	\$21.00	\$30.50	\$51.50	\$255,648.00	\$20.00	\$20.00	\$40.00	\$60.00	\$40.00	\$100.00	\$496,400.00	\$507,364.00
44	638	8" Water Main, PVC, C909, Push-on Joints	4586	Foot	\$20.60	\$38.80	\$59.20	\$272,083.20	\$30.00	\$23.50	\$53													