

ORDINANCE NO. 11-24

**AN ORDINANCE TO AWARD A BID AND ENTER INTO A JOINT CONSTRUCTION
PROJECT WITH AVON LAKE REGIONAL WATER FOR THE MILLER
ROAD WATER MAIN IMPROVEMENT PROJECT
AND DECLARING AN EMERGENCY**

WHEREAS, the Utility Department seeks to improve the efficiency and consistency of the public water distribution system while reducing overall raw water supply costs; and

WHEREAS, the recently upgraded Miller Road Water Distribution Booster Pump Station provides an opportunity to supply a larger percentage of Avon's water demand with lower unit cost supply water via its direct connection to the Avon Lake Regional Water (ALRW) System along Miller Road; and

WHEREAS, in order to obtain a larger utilization of lower cost supply water from the ALRW system via the Miller Road direct connection, it is necessary to make physical improvements including the removal of the existing 6-inch diameter water main which flows under the Norfolk & Southern Railroad at the Avon & Avon Lake municipal boundary and replace it with a proposed 12-inch diameter water main to be bored under said railroad tracks and appropriately connected to the ALRW system within the City of Avon Lake; and

WHEREAS, the City Engineer worked in conjunction with Chagrin Valley Engineering, Ltd., the Avon Utility Department, and ALRW to prepare plans, specifications, and cost estimations for a new bored 12-inch diameter water main, water meter vault, and appurtenances thereto necessary to facilitate an improved direct connection to the ALRW system; and

WHEREAS, ALRW has agreed to oversee and manage the public bidding process, construction management, and contract administration related to a proposed ALRW & City of Avon joint construction project known as the Miller Road Water Main Improvement Project; and

WHEREAS, the public bids were opened and read aloud at noon on January 3, 2024, at the ALRW Board Room and the following bids were received:

Contractor	Bid Total
DRS Enterprises, Inc.	\$240,421.08
Underground Utilities, Inc.	\$247,600.00
KMU Trucking & Excavating, LLC	\$260,900.00
Fechko Excavating	\$262,920.00
NEO Trenching Service, Inc.	\$325,600.00
Triad Engineering & Contracting Co.	\$473,900.00

WHEREAS, a bid tabulation of the received bids prepared and stamped by ALRW staff engineer Jack Gaydar, P.E., P.S., M. ASCE is attached as Exhibit A; and

WHEREAS, a breakdown of ALRW and City of Avon costs also prepared and stamped by ALRW staff engineer Jack Gaydar, P.E., P.S., M. ASCE is attached as Exhibit B with said

cost divisions being in agreement with cost divisions prepared by the Avon City Engineer thence approved by ALRW and the Avon Utility Department prior to bidding as depicted in the attached Exhibit C; and

WHEREAS, the bid submitted by DRS Enterprises, Inc. in the amount of \$240,421.08 is approximately 6.7% over the City Engineer's Estimate of \$225,300.00 without contingency as presented in the attached Exhibit D; and

WHEREAS, ARLW has determined that the City of Avon's portion of the bid project cost is \$116,629.71 without contingency, see Exhibit B; and

WHEREAS, ALRW has reviewed the DRS Enterprises, Inc. bid submitted and found the bid to be responsive and complete and that it be considered the lowest and best bid for the Miller Road Water Main Improvement Project; and

WHEREAS, the City Engineer recommends that a 10% contingency amount be added to the City of Avon's anticipated project cost of \$116,629.71 without contingency, thus totaling \$128,292.68 with contingency, to reasonably account for the final extents and quantities of work to be performed under the construction contract as determined by ALRW and approved by the Avon Service Director & Utility Superintendent; and

WHEREAS, the Avon Finance Director shall appropriate the amount of \$128,292.68 as the City of Avon's estimated share of the joint ALRW & City of Avon construction project known as the Miller Road Water Main Improvement Project; and

WHEREAS, Council finds that it is in the best interest of the health, safety, and welfare of the Community to go forward with the awarding of a joint construction contract with ARLW, dated January 3, 2024, based on the public bid submitted by the DRS Enterprises, Inc. for the Miller Road Water Main Improvement Project.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF AVON, COUNTY OF LORAIN, AND STATE OF OHIO:

Section 1 - That the bid for the Miller Road Water Main Improvement Project was received on January 3, 2024, at the Avon Lake Regional Water Board Room and read aloud.

Section 2 - That Council authorizes the award of a construction contract to DRS Enterprises, Inc. in the amount of \$240,421.08 corresponding to the public bid submitted by the same for the Miller Road Water Main Improvement Project.

Section 3 - That the Avon Finance Director is authorized to pay the City's share of this obligation from the Capital Improvements Water Fund No. 303.

Section 4 - That it is found and determined that all formal actions of the Council of the City of Avon concerning and relating to the adoption of this Ordinance were taken in an open meeting of the Council of the City of Avon and that all deliberations of this City's Council and

any of its committees that resulted in those formal actions were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

Section 5- That this Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public health, safety, and welfare of the citizens of the City of Avon, the immediate emergency being the necessity to undertake and substantially complete the Miller Road Water Main Improvement Project prior to the end of the 2024 construction season; therefore, this resolution shall be in full force and effect immediately upon its passage and approval by the Mayor.

PASSED: January 22, 2024 DATE SIGNED: January 22, 2024

By: Brian Fischer
Brian Fischer, Council President

DATE APPROVED BY THE MAYOR: January 23, 2024

Bryan K. Jensen
Bryan K. Jensen, Mayor

APPROVED AS TO FORM:

John A. Gasior
John A. Gasior, Law Director

ATTEST:

Barbara J. Brooks
Barbara Brooks
Clerk of Council

Posted: January 24, 2024
Electronically and at City Hall as
Provided by Council

Prepared By:
John A. Gasior, Esq.
Law Director

I, Barbara J. Brooks, Clerk of the Council of the City of Avon, Ohio, hereby certify this document to be a true and exact copy of Ordinance No. 11-24, passed by the Council of said City on January 22, 2024.

IN WITNESS WHEREOF, I have on this 23rd day of January, 2024, affixed my signature and official seal.

Barbara J. Brooks
Barbara J. Brooks, Clerk of the Council
of the City of Avon, Ohio

EXHIBIT A
to Ord. No. 11-24
PAGE 1 OF 6

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW Board Room Plan holder/attended MPP

Plan holder/attended MPP

Plan holder/did not attend MPP

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost	% total	DRS Enterprises, Inc.		KMU Trucking & Excavating, LLC		J.S. Bova Excavating, LLC	
							Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost
1	WATER MAIN REMOVED OR ABANDONED	Lump Sum	1.00	\$ 3,500.00	\$ 3,500.00	1.11%	\$ 2,500.00	\$ 2,500.00	\$ 14,000.00	\$ 14,000.00	\$ -	\$ -
2	WATER METER VAULT & APPT. REMOVED	Lump Sum	1.00	\$ 7,000.00	\$ 7,000.00	2.22%	\$ 6,000.00	\$ 6,000.00	\$ 8,800.00	\$ 8,800.00	\$ -	\$ -
3	12" C909 PVCO WATER LINE W/ 24" CASING PIPE FOR HORIZONTAL BORE	Lin. Ft.	80.00	\$ 905.61	\$ 72,448.80	22.94%	\$ 900.00	\$ 72,000.00	\$ 715.00	\$ 57,200.00	\$ -	\$ -
4	12" C909 PVCO WATER LINE	Lin. Ft.	150.00	\$ 231.87	\$ 34,780.50	11.01%	\$ 271.91	\$ 40,786.50	\$ 305.00	\$ 45,750.00	\$ -	\$ -
5	12" LINE VALVE WITH VALVE BOX	Each	6.00	\$ 5,893.34	\$ 35,360.04	11.20%	\$ 4,766.66	\$ 28,599.96	\$ 5,625.00	\$ 33,750.00	\$ -	\$ -
6	ALRW FIRE HYD. ASSEM.	Each	1.00	\$ 8,644.67	\$ 8,644.67	2.74%	\$ 8,702.91	\$ 8,702.91	\$ 8,800.00	\$ 8,800.00	\$ -	\$ -
7	8'-4"x16'-4" WATER METER VAULT & APPT.	Lump Sum	1.00	\$ 25,000.00	\$ 25,000.00	7.92%	\$ 27,636.50	\$ 27,636.50	\$ 39,100.00	\$ 39,100.00	\$ -	\$ -
8	AGGREGATE SURFACE	C.Y.	40.00	\$ 65.00	\$ 2,600.00	0.82%	\$ 72.50	\$ 2,900.00	\$ 50.00	\$ 2,000.00	\$ -	\$ -
9	MAINTENANCE OF TRAFFIC	Allowance	1.00	\$ 21,400.00	\$ 21,400.00	6.78%	\$ 15,000.00	\$ 15,000.00	\$ 11,000.00	\$ 11,000.00	\$ -	\$ -

DID NOT SUBMIT A BID

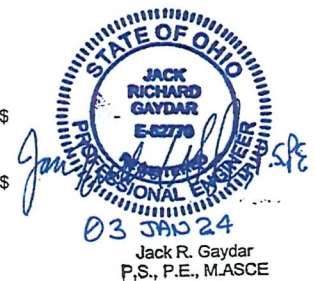


EXHIBIT A PAGE 2 OF 6

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW Board Room Plan holder/attended MPP

Plan holder/attended MPP

Plan holder/did not attend MPP

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost	% total	DRS Enterprises, Inc.		KMU Trucking & Excavating, LLC		J.S. Bova Excavating, LLC	
							Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost
10	MOBILIZATION(SEE BELOW)	Lump Sum	1.00	\$ -	\$ -		\$ 16,000.01	\$ 16,000.01	\$ 18,000.00	\$ 18,000.00	\$ -	\$ -
11	N.S. RAILROAD FEES	Allowance	1.00	\$ 13,000.00	\$ 13,000.00	4.12%	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ -	\$ -
12	EROSION CONTROL	Lump Sum	1.00	\$ 4,000.00	\$ 4,000.00	1.27%	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -
13	CONSTR. SURVERYING	Lump Sum	1.00	\$ 4,500.00	\$ 4,500.00	1.42%	\$ 4,795.20	\$ 4,795.20	\$ 7,000.00	\$ 7,000.00	\$ -	\$ -
			total		\$ 232,234.01	73.53%						
A	MOB & DEMOB	5%		\$ 10,730.16	\$ 11,611.70	3.68%						
B	BOND	3%		\$ 6,438.09	\$ 6,967.02	2.21%						
C	INSURANCE	3%		\$ 6,438.09	\$ 6,967.02	2.21%						
D	PCMU	15%		\$ 32,190.47	\$ 34,835.10	11.03%						
E	OH	10%		\$ 21,460.31	\$ 23,223.40	7.35%						
GRAND TOTAL							\$ 315,838.25	100.00%				
Engineers High End Estimate-Certified												
10% OVER ENGINEERS							\$ 347,422.08					
by: j.r. gaydar, p.s., p.e., 12/27/2023 @ 08:02 am												
REV. b: 01/03/24 @ 08:57												
total bid \$							\$ 240,421.08		total bid \$	\$ 260,900.00	total bid \$	\$ -
Addendum 1							√		Addendum 1	√	Addendum 1	
Addendum 2							√		Addendum 2	√	Addendum 2	
Addendum 3							√		Addendum 3	√	Addendum 3	
Addendum 4							√		Addendum 4	√	Addendum 4	
Bid Bond @10%							√		Bid Bond @10%	√	Bid Bond @10%	
Exceptions							none		Exceptions	none	Exceptions	
Errors?							none		Errors?	none	Errors?	
Minimum							\$ 240,421.08					
Maximum							\$ 473,900.00					
Average							\$ 301,890.18					
Median							\$ 261,910.00					
Std. Dev.							\$ 81,725.43					
BID Count							6					
Eligible to Bid							7					
% Bidding Resp							85.71%					

EXHIBIT A PAGE 3 OF 6

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW IPlan holder/attended MPP

Plan holder/attended MPP

Plan holder/attended MPP

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost	Triad engineering&contracting co.		Underground Utilities, Inc		J. Severino Construction	
						Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost
1	WATER MAIN REMOVED OR ABANDONED	Lump Sum	1.00	\$ 3,500.00	\$ 3,500.00	\$ 3,800.00	\$ 3,800.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -
2	WATER METER VAULT & APPT. REMOVED	Lump Sum	1.00	\$ 7,000.00	\$ 7,000.00	\$ 12,000.00	\$ 12,000.00	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -
3	12" C909 PVCO WATER LINE W/ 24" CASING PIPE FOR HORIZONTAL BORE	Lin. Ft.	80.00	\$ 905.61	\$ 72,448.80	\$ 1,700.00	\$ 136,000.00	\$ 630.00	\$ 50,400.00	\$ -	\$ -
4	12" C909 PVCO WATER LINE	Lin. Ft.	150.00	\$ 231.87	\$ 34,780.50	\$ 700.00	\$ 105,000.00	\$ 310.00	\$ 46,500.00	\$ -	\$ -
5	12" LINE VALVE WITH VALVE BOX	Each	6.00	\$ 5,893.34	\$ 35,360.04	\$ 4,700.00	\$ 28,200.00	\$ 3,600.00	\$ 21,600.00	\$ -	\$ -
6	ALRW FIRE HYD. ASSEM.	Each	1.00	\$ 8,644.67	\$ 8,644.67	\$ 10,500.00	\$ 10,500.00	\$ 6,400.00	\$ 6,400.00	\$ -	\$ -
7	8'-4"x16'-4" WATER METER VAULT & APPT.	Lump Sum	1.00	\$ 25,000.00	\$ 25,000.00	\$ 64,000.00	\$ 64,000.00	\$ 60,000.00	\$ 60,000.00	\$ -	\$ -
8	AGGREGATE SURFACE	C.Y.	40.00	\$ 65.00	\$ 2,600.00	\$ 60.00	\$ 2,400.00	\$ 30.00	\$ 1,200.00	\$ -	\$ -
9	MAINTENANCE OF TRAFFIC	Allowance	1.00	\$ 21,400.00	\$ 21,400.00	\$ 66,500.00	\$ 66,500.00	\$ 2,000.00	\$ 2,000.00	\$ -	\$ -

EXHIBIT A PAGE 4 OF 6

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW IPlan holder/attended MPP

Plan holder/attended MPP

Plan holder/attended MPP

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost	Triad engineering&contracting co.		Underground Utilities, Inc		J. Severino Construction	
						Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost
10	MOBILIZATION(SEE BELOW)	Lump Sum	1.00	\$ -	\$ -	\$ 14,000.00	\$ 14,000.00	\$ 35,000.00	\$ 35,000.00	\$ -	\$ -
11	N.S. RAILROAD FEES	Allowance	1.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ -	\$ -
12	EROSION CONTROL	Lump Sum	1.00	\$ 4,000.00	\$ 4,000.00	\$ 7,000.00	\$ 7,000.00	\$ 1,500.00	\$ 1,500.00	\$ -	\$ -
13	CONSTR. SURVERYING	Lump Sum	1.00	\$ 4,500.00	\$ 4,500.00	\$ 11,500.00	\$ 11,500.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -
			total		\$ 232,234.01						
A	MOB & DEMOB	5%		\$ 10,730.16	\$ 11,611.70						
B	BOND	3%		\$ 6,438.09	\$ 6,967.02						
C	INSURANCE	3%		\$ 6,438.09	\$ 6,967.02						
D	PCMU	15%		\$ 32,190.47	\$ 34,835.10						
E	OH	10%		\$ 21,460.31	\$ 23,223.40						
GRAND TOTAL \$ 315,838.25											
Engineers High End Estimate-Certified											
10% OVER ENGINEERS											
\$ 347,422.08											
by: j.r. gaydar, p.s., p.e., 12/27/2023 @ 08:02 am											
REV. b: 01/03/24 @ 08:57											

total bid \$

\$ 473,900.00

total bid \$

\$ 247,600.00

total bid \$

\$ -

Addendum 1

✓

Addendum 1

✓

Addendum 1

Addendum 2

✓

Addendum 2

✓

Addendum 2

Addendum 3

✓

Addendum 3

✓

Addendum 3

Addendum 4

✓

Addendum 4

✓

Addendum 4

Bid Bond @10%

✓

Bid Bond @10%

✓

Bid Bond @10%

Exceptions

none

Exceptions

none

Exceptions

Errors?

none

Errors?

none

Errors?

EXHIBIT A PAGE 5 OF 6

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW IPlan holder/attended MPP

Plan holder/attended MPP

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost	Fechko Excavating		NEO Trenching Serv. Inc	
						Unit Cost (\$)	Total Cost	Unit Cost (\$)	Total Cost
1	WATER MAIN REMOVED OR ABANDONED	Lump Sum	1.00	\$ 3,500.00	\$ 3,500.00	\$ 4,000.00	\$ 4,000.00	\$ 11,000.00	\$ 11,000.00
2	WATER METER VAULT & APPT. REMOVED	Lump Sum	1.00	\$ 7,000.00	\$ 7,000.00	\$ 2,000.00	\$ 2,000.00	\$ 12,000.00	\$ 12,000.00
3	12" C909 PVCO WATER LINE W/ 24" CASING PIPE FOR HORIZONTAL BORE	Lin. Ft.	80.00	\$ 905.61	\$ 72,448.80	\$ 794.00	\$ 63,520.00	\$ 850.00	\$ 68,000.00
4	12" C909 PVCO WATER LINE	Lin. Ft.	150.00	\$ 231.87	\$ 34,780.50	\$ 418.00	\$ 62,700.00	\$ 500.00	\$ 75,000.00
5	12" LINE VALVE WITH VALVE BOX	Each	6.00	\$ 5,893.34	\$ 35,360.04	\$ 4,000.00	\$ 24,000.00	\$ 6,500.00	\$ 39,000.00
6	ALRW FIRE HYD. ASSEM.	Each	1.00	\$ 8,644.67	\$ 8,644.67	\$ 9,000.00	\$ 9,000.00	\$ 9,500.00	\$ 9,500.00
7	8'-4"x16'-4" WATER METER VAULT & APPT.	Lump Sum	1.00	\$ 25,000.00	\$ 25,000.00	\$ 37,000.00	\$ 37,000.00	\$ 41,000.00	\$ 41,000.00
8	AGGREGATE SURFACE	C.Y.	40.00	\$ 65.00	\$ 2,600.00	\$ 80.00	\$ 3,200.00	\$ 90.00	\$ 3,600.00
9	MAINTENANCE OF TRAFFIC	Allowance	1.00	\$ 21,400.00	\$ 21,400.00	\$ 18,000.00	\$ 18,000.00	\$ 25,000.00	\$ 25,000.00

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost
10	MOBILIZATION(SEE BELOW)	Lump Sum	1.00	\$ -	\$ -
11	N.S. RAILROAD FEES	Allowance	1.00	\$ 13,000.00	\$ 13,000.00
12	EROSION CONTROL	Lump Sum	1.00	\$ 4,000.00	\$ 4,000.00
13	CONSTR. SURVERYING	Lump Sum	1.00	\$ 4,500.00	\$ 4,500.00
total					\$ 232,234.01
A	MOB & DEMOB	5%		\$ 10,730.16	\$ 11,611.70
B	BOND	3%		\$ 6,438.09	\$ 6,967.02
C	INSURANCE	3%		\$ 6,438.09	\$ 6,967.02
D	PCMU	15%		\$ 32,190.47	\$ 34,835.10
E	OH	10%		\$ 21,460.31	\$ 23,223.40
GRAND TOTAL \$ 315,838.25					
Engineers High End Estimate-Certified 10% OVER ENGINEERS					\$ 347,422.08

by: j.r. gaydar, p.s., p.e., 12/27/2023 @ 08:02 am
REV. b: 01/03/24 @ 08:57

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW Board Room. Oper: J.A. Larson, EIT.

TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW Board Room. Oper: J.A. Larson, EIT.							Plan holder/attended MPP		Plan holder/attended MPP		Plan holder/did not attend MPP		Plan holder/attended MPP		Plan holder/attended MPP		Plan holder/attended MPP		Plan holder/attended MPP		Plan holder/attended MPP	
Item No.	Item Description	Unit	Quantity	Unit Price	Total Cost	% total	ONS Enterprises, Inc.	Total Cost	BMU Trucking & Excavating, LLC	Total Cost	J.S. Grove Excavating, LLC	Total Cost	Triad engineering&contracting co.	Total Cost	Underground Utilities, Inc	Total Cost	J. Severine Construction	Total Cost	Stacy P. Levens	Total Cost	NEO Trenching Serv. Inc.	Total Cost
1	WATER MAIN REMOVED OR ABANDONED	Lump Sum	1.00	\$ 3,500.00	\$ 3,500.00	1.11%	\$ 2,500.00	\$ 2,500.00	\$ 14,000.00	\$ 14,000.00	DID NOT SUBMIT A BID		\$ 3,800.00	\$ 3,800.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -	\$ 4,000.00	\$ 4,000.00	\$ 11,000.00	\$ 11,000.00
2	WATER METER VAULT & APPT. REMOVED	Lump Sum	1.00	\$ 7,000.00	\$ 7,000.00	2.22%	\$ 6,000.00	\$ 6,000.00	\$ 8,800.00	\$ 8,800.00	\$ -	\$ -	\$ 12,000.00	\$ 12,000.00	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00	\$ 12,000.00	\$ 12,000.00
3	12" C909 PVC0 WATER LINE W/ 24" CASING PIPE FOR HORIZONTAL BORE	Lin. Ft.	80.00	\$ 905.61	\$ 72,448.80	22.94%	\$ 900.00	\$ 72,000.00	\$ 715.00	\$ 57,200.00	\$ -	\$ -	\$ 1,700.00	\$ 136,000.00	\$ 630.00	\$ 50,400.00	\$ -	\$ -	\$ 794.00	\$ 63,520.00	\$ 850.00	\$ 68,000.00
4	12" C909 PVC0 WATER LINE	Lin. Ft.	150.00	\$ 231.87	\$ 34,780.50	11.01%	\$ 271.91	\$ 40,786.50	\$ 305.00	\$ 45,750.00	\$ -	\$ -	\$ 700.00	\$ 105,000.00	\$ 310.00	\$ 46,500.00	\$ -	\$ -	\$ 418.00	\$ 62,700.00	\$ 500.00	\$ 75,000.00
5	12" LINE VALVE WITH VALVE BOX	Each	6.00	\$ 5,893.34	\$ 35,360.04	11.20%	\$ 4,766.66	\$ 28,599.96	\$ 5,625.00	\$ 33,750.00	\$ -	\$ -	\$ 4,700.00	\$ 28,200.00	\$ 3,600.00	\$ 21,600.00	\$ -	\$ -	\$ 4,000.00	\$ 24,000.00	\$ 8,500.00	\$ 39,000.00
6	ALRW FIRE HYD. ASSEM.	Each	1.00	\$ 8,644.67	\$ 8,644.67	2.74%	\$ 8,702.91	\$ 8,702.91	\$ 8,800.00	\$ 8,800.00	\$ -	\$ -	\$ 10,500.00	\$ 10,500.00	\$ 6,400.00	\$ 6,400.00	\$ -	\$ -	\$ 9,000.00	\$ 9,000.00	\$ 9,500.00	\$ 9,500.00
7	8'-4"x16'-4" WATER METER VAULT & APPT.	Lump Sum	1.00	\$ 25,000.00	\$ 25,000.00	7.92%	\$ 27,636.50	\$ 27,636.50	\$ 39,100.00	\$ 39,100.00	\$ -	\$ -	\$ 64,000.00	\$ 64,000.00	\$ 60,000.00	\$ 60,000.00	\$ -	\$ -	\$ 37,000.00	\$ 37,000.00	\$ 41,000.00	\$ 41,000.00
8	AGGREGATE SURFACE	C.Y.	40.00	\$ 65.00	\$ 2,600.00	0.82%	\$ 72.50	\$ 2,900.00	\$ 50.00	\$ 2,000.00	\$ -	\$ -	\$ 80.00	\$ 2,400.00	\$ 30.00	\$ 1,200.00	\$ -	\$ -	\$ 80.00	\$ 3,200.00	\$ 90.00	\$ 3,600.00
9	MAINTENANCE OF TRAFFIC	Allowance	1.00	\$ 21,400.00	\$ 21,400.00	6.78%	\$ 15,000.00	\$ 15,000.00	\$ 11,000.00	\$ 11,000.00	\$ -	\$ -	\$ 66,500.00	\$ 66,500.00	\$ 2,000.00	\$ 2,000.00	\$ -	\$ -	\$ 18,000.00	\$ 18,000.00	\$ 25,000.00	\$ 25,000.00
10	MOBILIZATION(SEE BELOW)	Lump Sum	1.00	\$ -	\$ -		\$ 16,000.01	\$ 16,000.01	\$ 18,000.00	\$ 18,000.00	\$ -	\$ -	\$ 14,000.00	\$ 14,000.00	\$ 35,000.00	\$ 35,000.00	\$ -	\$ -	\$ 18,000.00	\$ 18,000.00	\$ 18,500.00	\$ 18,500.00
11	N.S. RAILROAD FEES	Allowance	1.00	\$ 13,000.00	\$ 13,000.00	4.12%	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ -	\$ -	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ -	\$ -	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00
12	EROSION CONTROL	Lump Sum	1.00	\$ 4,000.00	\$ 4,000.00	1.27%	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -	\$ 7,000.00	\$ 7,000.00	\$ 1,500.00	\$ 1,500.00	\$ -	\$ -	\$ 3,000.00	\$ 3,000.00	\$ 5,000.00	\$ 5,000.00
13	CONSTR. SURVEYING	Lump Sum	1.00	\$ 4,500.00	\$ 4,500.00	1.42%	\$ 4,795.20	\$ 4,795.20	\$ 7,000.00	\$ 7,000.00	\$ -	\$ -	\$ 11,500.00	\$ 11,500.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -	\$ 5,500.00	\$ 5,500.00	\$ 5,000.00	\$ 5,000.00
total								\$ 232,234.01														
A	MOB & DEMOS	5%		\$ 10,730.16	\$ 11,811.70	3.68%	total bid \$ \$240,421.08		total bid \$ \$ 280,988.00		total bid \$ \$ -		total bid \$ \$ 473,900.00		total bid \$ \$ 247,808.00		total bid \$ \$ -		total bid \$ \$ 282,828.00		total bid \$ \$ 325,600.00	
B	BOND	3%		\$ 6,438.09	\$ 6,967.02	2.21%	Addendum 1	✓	Addendum 1	✓	Addendum 1		Addendum 1	✓	Addendum 1	✓	Addendum 1		Addendum 1	✓	Addendum 1	✓
C	INSURANCE	3%		\$ 6,438.09	\$ 6,967.02	2.21%	Addendum 2	✓	Addendum 2	✓	Addendum 2		Addendum 2	✓	Addendum 2	✓	Addendum 2		Addendum 2	✓	Addendum 2	✓
D	PCMU	15%		\$ 32,190.47	\$ 34,835.10	11.03%	Addendum 3	✓	Addendum 3	✓	Addendum 3		Addendum 3	✓	Addendum 3	✓	Addendum 3		Addendum 3	✓	Addendum 3	✓
E	OH	10%		\$ 21,480.31	\$ 23,223.40	7.35%	Addendum 4	✓	Addendum 4	✓	Addendum 4		Addendum 4	✓	Addendum 4	✓	Addendum 4		Addendum 4	✓	Addendum 4	✓
							Bid Bond @10%	✓	Bid Bond @10%	✓	Bid Bond @10%	✓	Bid Bond @10%	✓	Bid Bond @10%	✓	Bid Bond @10%	✓	Bid Bond @10%	✓	Bid Bond @10%	✓
							Exceptions	none	Exceptions	none	Exceptions	none	Exceptions	none	Exceptions	none	Exceptions	none	Exceptions	none	Exceptions	none
							Errors?	none	Errors?	none	Errors?	none	Errors?	none	Errors?	none	Errors?	none	Errors?	none	Errors?	none
GRAND TOTAL							\$ 315,838.25	100.00%														
Engineers High End Estimate-Certified							10% OVER ENGINEERS															
by: J.R. Gaydar, P.S., P.E. 12/27/2023 @ 08:02 am																						
REV. D. 01/03/24 @ 08:57																						

Engineers High End Estimate-Certified
10% OVER ENGINEERS

by: J.R. Gaydar, P.S., P.E. 12/27/2023 @ 08:02 am
REV. D. 01/03/24 @ 08:57



Jack R. Gaydar
P.S., P.E., M.ASCE

03 JAN 24

EXHIBIT B

to Ord. No. 11-24

PAGE 1 OF 2

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW Board Room. Oper: J.A. Larson, EIT.

Plan holder/attended MPP

DRS Enterprises, Inc.

COST SHARING

BREAKDOWN

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost	% total	Unit Cost (\$)	Total Cost	ALRW	AVON
1	WATER MAIN REMOVED OR ABANDONED	Lump Sum	1.00	\$ 3,500.00	\$ 3,500.00	1.11%	\$ 2,500.00	\$ 2,500.00	50%	50%
									\$ 1,250.00	\$ 1,250.00
2	WATER METER VAULT & APPT. REMOVED	Lump Sum	1.00	\$ 7,000.00	\$ 7,000.00	2.22%	\$ 6,000.00	\$ 6,000.00	0%	100%
									\$ -	\$ 6,000.00
3	12" C909 PVCO WATER LINE W/ 24" CASING PIPE FOR HORIZONTAL BORE	Lin. Ft.	80.00	\$ 905.61	\$ 72,448.80	22.94%	\$ 900.00	\$ 72,000.00	0%	100%
									\$ -	\$ 72,000.00
4	12" C909 PVCO WATER LINE	Lin. Ft.	150.00	\$ 231.87	\$ 34,780.50	11.01%	\$ 271.91	\$ 40,786.50	86%	14%
									\$ 35,076.39	\$ 5,710.11
5	12" LINE VALVE WITH VALVE BOX	Each	6.00	\$ 5,893.34	\$ 35,360.04	11.20%	\$ 4,766.66	\$ 28,599.96	83%	17%
									\$ 23,737.97	\$ 4,861.99
6	ALRW FIRE HYD. ASSEM.	Each	1.00	\$ 8,644.67	\$ 8,644.67	2.74%	\$ 8,702.91	\$ 8,702.91	100%	0%
									\$ 8,702.91	\$ -
7	8'-4"x16'-4" WATER METER VAULT & APPT.	Lump Sum	1.00	\$ 25,000.00	\$ 25,000.00	7.92%	\$ 27,636.50	\$ 27,636.50	100%	0%
									\$ 27,636.50	\$ -
8	AGGREGATE SURFACE	C.Y.	40.00	\$ 65.00	\$ 2,600.00	0.82%	\$ 72.50	\$ 2,900.00	60%	40%
									\$ 1,740.00	\$ 1,160.00
9	MAINTENANCE OF TRAFFIC	Allowance	1.00	\$ 21,400.00	\$ 21,400.00	6.78%	\$ 15,000.00	\$ 15,000.00	50%	50%
									\$ 7,500.00	\$ 7,500.00
10	MOBILIZATION(SEE BELOW)	Lump Sum	1.00	\$ -	\$ -		\$ 16,000.01	\$ 16,000.01	50%	50%
									\$ 8,000.01	\$ 8,000.01
11	N.S. RAILROAD FEES	Allowance	1.00	\$ 13,000.00	\$ 13,000.00	4.12%	\$ 13,000.00	\$ 13,000.00	50%	50%

AVON LAKE REGIONAL WATER and The City of Avon Joint Project.

Miller Road Water Main and Meter Vault Replacement Project

Date: 12/20/2023

by: J.R. Gaydar, P.S., P.E.

BID TABULATION-Bids opened 03 JAN 24 @ 12:00:00 on Bid Express opened in ALRW Board Room. Oper: J.A. Larson, EIT.

Plan holder/attended MPP

COST SHARING BREAKDOWN

Item No.	Item Description	Unit	Quantity +/-	Unit Price	Total Cost	% total	Unit Cost (\$)	Total Cost	ALRW	AVON
12	EROSION CONTROL	Lump Sum	1.00	\$ 4,000.00	\$ 4,000.00	1.27%	\$ 2,500.00	\$ 2,500.00	\$ 6,500.00 50%	\$ 6,500.00 50%
13	CONSTR. SURVEYING	Lump Sum	1.00	\$ 4,500.00	\$ 4,500.00	1.42%	\$ 4,795.20	\$ 4,795.20	\$ 1,250.00 50%	\$ 1,250.00 50%
			total		\$ 232,234.01	73.53%			\$ 2,397.60	\$ 2,397.60
A	MOB & DEMOB	5%		\$ 10,730.16	\$ 11,611.70	3.68%				
B	BOND	3%		\$ 6,438.09	\$ 6,967.02	2.21%				
C	INSURANCE	3%		\$ 6,438.09	\$ 6,967.02	2.21%				
D	PCMU	15%		\$ 32,190.47	\$ 34,835.10	11.03%				
E	OH	10%		\$ 21,460.31	\$ 23,223.40	7.35%				
				GRAND TOTAL	\$ 315,838.25	100.00%				
				Engineers High End Estimate-Certified						
				10% OVER ENGINEERS	\$ 347,422.08					
				by: j.r. gaydar, p.s., p.e., 12/27/2023 @ 08:02 am						
				REV. b: 01/03/24 @ 08:57						



Jack R. Gaydar
P.S., P.E., M.ASCE

03 JAN 24

EXHIBIT C to Ord. No. 11-24 PAGE 1 OF 1

- c. List of subcontractors.
- d. List of products.
- e. List of principal suppliers and fabricators.
- f. Schedule of submittals.

Provide a breakdown of the Contract Sum in sufficient detail to facilitate continued evaluation of "Applications for Payment" and progress reports. Break principal subcontract amounts down into several line items. Round amounts to nearest whole dollar; the total shall equal the Contract Sum. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment, purchased or fabricated and stored, but not yet installed, known as "Delivered Material". Differentiate between items stored on-site and items stored off-site. Include requirements for insurance and bonded warehousing, if required. Owner assumes No Responsibility for any delivered materials, whether on-site or off-site and/or material, hardware, components, systems installed for theft and/or damage until the entire project is completed, final and accepted by the Owner, "Substantial Completion".

PAYMENT PROCEDURES

Contractor shall submit Applications for Payment in accordance with the General Conditions. Application for Payment will be processed by ALRW & the City of Avon.

Requests for Payment shall be split into "Part A – Avon Lake Regional Water" and "Part B – City of Avon." The percentage breakdown for each line item shall be as follows:

Line Item	Part A – Avon Lake Regional Water	Part B – City of Avon
01 – Water main removal	50%	50%
02 – Meter vault removal	0%	100%
03 – 12" C909 w/ casing pipe	0%	100%
04 – 12" C909	86%	14%
05 – 12" valve	83%	17%
06 – Fire hydrant	100%	0%
07 – New meter vault	100%	0%
08 – Aggregate surface	60%	40%
09 – Maintenance of traffic	50%	50%
10 – Mobilization	50%	50%
11 – NS Railroad fees	50%	50%
12 – Erosion control	50%	50%
13 – Constr. Surveying	50%	50%

Contractor's invoices shall follow this percentage breakdown for each line item.

Note: This page is an excerpt from the project bid book prepared by Avon Lake Regional Water to reflect a pre-bidding agreement between City of Avon Utilities Department and Avon Lake Regional Water as to cost sharing responsibilities based on the work to be performed during the joint project. (REC, 1/9/24)



EXHIBIT D to Ord. No. 11-24 PAGE 1 OF 1

November 14, 2023

MILLER ROAD WATER MAIN IMPROVEMENTS

ESTIMATE OF PROJECT COSTS

Project Scope:

This proposed project will consist of the installation of an upgraded 12 inch water main under the Miller Road - NS Railroad crossing. These improvements will be bored under the NS Railroad Tracks and connect to an upgraded water meter vault in the City of Avon Lake on Miller Road.

ITEM NO.	ODOT NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	PROJECT TOTAL	AVON QUANTITY	AVON TOTAL	AVON LAKE QUANTITY	AVON LAKE TOTAL
1	SPEC	WATER MAIN REMOVED OR ABANDONED	LUMP	1	\$5,500.00	\$5,500.00	0.5	\$2,750.00	0.5	\$2,750.00
2	SPEC	WATER METER VAULT AND APPURTENANCES REMOVED	LUMP	1	\$2,500.00	\$2,500.00	1	\$2,500.00	0	\$0.00
3	SPEC	12" C909 PVC WATER MAIN WITH 24" CASING PIPE	LF	80	\$1,000.00	\$80,000.00	80	\$80,000.00	0	\$0.00
4	SPEC	12" C909 PVC WATER MAIN	LF	150	\$125.00	\$18,750.00	21	\$2,625.00	129	\$16,125.00
5	SPEC	12" LINE VALVE AND VALVE BOX	EACH	6	\$4,000.00	\$24,000.00	1	\$4,000.00	5	\$20,000.00
6	SPEC	ALRW FIRE HYDRANT ASSEMBLY	EACH	1	\$5,000.00	\$5,000.00	0	\$0.00	1	\$5,000.00
7	SPEC	8'-4" x 16'-4" WATER METER VAULT INCLUDING GATE VALVES, STRAINER, WATER METER, TESTABLE BACKFLOW DOUBLE CHECK VALVE, APPURTENANCES, SUMP PUMP, CONDUIT AND ELECTRICAL WIRING	LUMP	1	\$45,000.00	\$45,000.00	0	\$0.00	1	\$45,000.00
8	304	AGGREGATE SURFACE	CY	40	\$70.00	\$2,800.00	16	\$1,120.00	24	\$1,680.00
9	614	MAINTENANCE OF TRAFFIC	LUMP	1	\$15,000.00	\$15,000.00	0.5	\$7,500.00	0.5	\$7,500.00
10	624	MOBILIZATION	LUMP	1	\$6,500.00	\$6,500.00	0.5	\$3,250.00	0.5	\$3,250.00
11	SPEC	NS RAILROAD FEES	LUMP	1	\$12,750.00	\$12,750.00	0.5	\$6,375.00	0.5	\$6,375.00
12	832	EROSION CONTROL	LUMP	1	\$2,500.00	\$2,500.00	0.5	\$1,250.00	0.5	\$1,250.00
13	SPEC	CONSTRUCTION SURVEYING	LUMP	1	\$5,000.00	\$5,000.00	0.5	\$2,500.00	0.5	\$2,500.00
14	SPEC	GENERAL CONSTRUCTION CONTINGENCY ALLOWANCE	LUMP	1	\$22,000.00	\$22,000.00	0.5	\$11,000.00	0.5	\$11,000.00
TOTAL WATER MAIN CONSTRUCTION COSTS						\$247,300.00		\$124,870.00		\$122,430.00
CONSTRUCTION INSPECTION/CONSTRUCTION MANAGEMENT						\$13,000.00		\$13,000.00		
ENGINEERING						\$25,000.00		\$25,000.00		
TOTAL PROFESSIONAL SERVICES						\$38,000.00		\$38,000.00		\$0.00
TOTAL ESTIMATE OF PROJECT COSTS						\$285,300.00		\$162,870.00		\$122,430.00

Note:

The costs shown represent an estimate of probable construction costs prepared in good faith and reasonable care.

Chagrin Valley Engineering, Ltd. has no control over the costs of construction labor, materials or equipment, nor over competitive bidding.

