

**ESTIMATED CONSTRUCTION COST**

**Project Name: Initial Village Water Main Extensions (Wauwatosa Water Supply)**

Client Name: Village of Elm Grove

Project No. 38-00000.100

Date Modified: 12/20/2022

Item No.	Description	Unit	Quantity	Unit Price	Total	Item Notes
<b>Watertown Plank Road (West side of Cemetery Parcel to West Side of Terrace Condominiums Parcel)</b>						
1	Traffic Control w/ Detour	L.S.	1	\$ 15,000.00	\$ 15,000.00	560' Project Corridor (Generally Under Pavement)
2	Erosion Control	L.S.	1	\$ 3,500.00	\$ 3,500.00	
3	8-inch Water Main - Open Cut w/ Granular Backfill	L.F.	75	\$ 170.00	\$ 12,750.00	
4	16-inch Water Main - Open Cut w/ Granular Backfill	L.F.	560	\$ 220.00	\$ 123,200.00	
5	8-inch Gate Valve	EA.	1	\$ 2,200.00	\$ 2,200.00	
6	12-inch Gate Valve	EA.	1	\$ 3,900.00	\$ 3,900.00	
7	16-inch Butterfly Valve	EA.	3	\$ 4,500.00	\$ 13,500.00	
8	Hydrant Assembly with 6-inch Valve	EA.	1	\$ 8,000.00	\$ 8,000.00	
9	6-inch Hydrant Lead	L.F.	43	\$ 200.00	\$ 8,600.00	
10	2-Inch Water Service - Open Cut	L.F.	450	\$ 95.00	\$ 42,750.00	
11	2-Inch Tap, Saddle and Corporation Valve	EA.	11	\$ 900.00	\$ 9,900.00	
12	2-Inch Curb Valve and Box	EA.	11	\$ 900.00	\$ 9,900.00	
13	6-Inch Water Service - Open Cut	L.F.	30	\$ 200.00	\$ 6,000.00	
14	6-Inch Service Valve	EA.	1	\$ 2,000.00	\$ 2,000.00	
15	Storm Sewer System and Culvert Replacement	L.S.	1	\$ 15,000.00	\$ 15,000.00	
16	10" Crushed Aggregate Base	Tons	800	\$ 22.00	\$ 17,600.00	
17	Remove and Replace Concrete Curb and Gutter	L.F.	450	\$ 30.00	\$ 13,500.00	
18	4" Asphalt Binder Course	Tons	250	\$ 95.00	\$ 23,750.00	
19	2" Asphalt Surface Course	Tons	130	\$ 100.00	\$ 13,000.00	
20	Asphalt Driveway Replacement	S.F.	1,000	\$ 8.00	\$ 8,000.00	
21	Concrete Driveway Replacement	S.F.	650	\$ 10.00	\$ 6,500.00	
22	Concrete Sidewalk Replacement	S.F.	600	\$ 8.00	\$ 4,800.00	
23	Detectable Warning Fields	S.F.	24	\$ 50.00	\$ 1,200.00	
24	Stamped Colored Concrete	S.F.	220	\$ 25.00	\$ 5,500.00	
25	Pavement Markings	L.S.	1	\$ 3,000.00	\$ 3,000.00	
26	Remove and Replace Street Lighting and Traffic Signal System	L.S.	1	\$ 10,000.00	\$ 10,000.00	
27	Vegetation Restoration	S.Y.	500	\$ 8.00	\$ 4,000.00	

Subtotal Construction =	\$ 387,050.00
Contingency (20%) =	\$ 77,410.00
Engineering (20%) =	\$ 92,892.00
<b>Project Segment Subtotal =</b>	<b>\$557,352.00</b>

**Assumptions**

- Estimates are in 2023 dollars.
- PVC water main pipe.
- Does not include special pipe and/or gasket materials for possible contaminated soils.
- 1-inch diameter service connections assumed for residential parcels.
- 6-inch diameter service connection assumed for Terrace Condominiums.
- 2-inch diameter service connections assumed for all other non-residential parcels for domestic use only.
- Larger diameter services to non-residential parcels for fire protection and/or non domestic use to be verified during detail design.
- Pipe sizing is approximate. Hydraulic modeling to confirm water main sizing will need to be completed using City of Wauwatosa water model during detail design.
- System static pressures in low areas may be greater than 80 psi requiring a pressure reducing valve on the service lateral inside the served building.

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Item No.	Description	Unit	Quantity	Unit Price	Total	Item Notes
<b>Legion Drive (Watertown Plank Road to Nicolet Avenue)</b>						
1	Traffic Control w/ Detour	L.S.	1	\$ 15,000.00	\$ 15,000.00	
2	Erosion Control	L.S.	1	\$ 8,700.00	\$ 8,700.00	1,450' Project Corridor
3	Tree Removal	L.S.	1	\$ 10,000.00	\$ 10,000.00	
4	8-inch Water Main - Open Cut w/ Granular Backfill	L.F.	105	\$ 170.00	\$ 17,850.00	
5	12-inch Water Main - Open Cut w/ Granular Backfill	L.F.	1,465	\$ 190.00	\$ 278,350.00	
9	8-inch Gate Valve	EA.	3	\$ 2,200.00	\$ 6,600.00	
10	12-inch Gate Valve	EA.	5	\$ 3,900.00	\$ 19,500.00	
13	Hydrant Assembly with 6-inch Valve	EA.	5	\$ 8,000.00	\$ 40,000.00	
14	6-inch Hydrant Lead	L.F.	62	\$ 200.00	\$ 12,400.00	
15	1-Inch Water Service - Open Cut	L.F.	50	\$ 85.00	\$ 4,250.00	
16	1-Inch Tap, Saddle and Corporation Valve	EA.	5	\$ 500.00	\$ 2,500.00	
17	1-Inch Curb Valve and Box	EA.	5	\$ 500.00	\$ 2,500.00	
18	2-Inch Water Service - Open Cut	L.F.	130	\$ 95.00	\$ 12,350.00	
19	2-Inch Tap, Saddle and Corporation Valve	EA.	5	\$ 900.00	\$ 4,500.00	
20	2-Inch Curb Valve and Box	EA.	5	\$ 900.00	\$ 4,500.00	
21	Storm Sewer System and Culvert Replacement	L.S.	1	\$ 35,000.00	\$ 35,000.00	
22	10" Crushed Aggregate Base	Ton	1,100	\$ 22.00	\$ 24,200.00	
23	Remove and Replace Concrete Curb and Gutter	L.F.	200	\$ 30.00	\$ 6,000.00	
24	4" Asphalt Binder Course	Tons	15	\$ 95.00	\$ 1,425.00	
25	3" Asphalt Binder Course	Tons	200	\$ 95.00	\$ 19,000.00	
26	2" Asphalt Surface Course	Tons	140	\$ 100.00	\$ 14,000.00	
27	Asphalt Driveway Replacement	S.F.	6,000	\$ 8.00	\$ 48,000.00	
28	Concrete Driveway Replacement	S.F.	220	\$ 10.00	\$ 2,200.00	
29	Concrete Sidewalk Replacement	S.F.	300	\$ 8.00	\$ 2,400.00	
30	Asphalt Pedestrian Pathway Replacement	Ton	50	\$ 150.00	\$ 7,500.00	
31	Detectable Warning Fields	S.F.	32	\$ 50.00	\$ 1,600.00	
32	Stamped Colored Concrete	S.F.	130	\$ 25.00	\$ 3,250.00	
33	Pavement Markings	L.S.	1	\$ 2,000.00	\$ 2,000.00	
35	Topsoil, Fertilizer, Seed and Erosion Mat	S.Y.	3,700	\$ 8.00	\$ 29,600.00	
Subtotal Construction =					\$ 635,175.00	
Contingency (20%) =					\$ 127,035.00	
Engineering (20%) =					\$ 152,442.00	
Project Segment Subtotal =					\$ 914,652.00	

**Assumptions**

- Estimates are in 2023 dollars.
- PVC water main pipe.
- Does not include special pipe and/or gasket materials for possible contaminated soils.
- Future water system connection for Marian Heights planned for at Juneau Boulevard.
- No service connections assumed for residential parcels north of Juneau Boulevard served by existing private Marian Heights Water System.
- 1-inch diameter service connections assumed for all other residential parcels.
- 8-inch diameter service connection for Village Hall / Village Park..
- 2-inch diameter service connections assumed for all other non-residential parcels for domestic use only.
- Larger diameter services to non-residential parcels for fire protection and/or non domestic use to be verified during detail design.
- Easement acquisition costs are not included.
- Pipe sizing is approximate. Hydraulic modeling to confirm water main sizing will need to be completed using City of Wauwatosa water model during detail design.
- System static pressures in low areas may be greater than 80 psi requiring a pressure reducing valve on the service lateral inside the served building.