



# DIY Main Replacement Projects

SAVE TIME AND MONEY USING YOUR CURRENT STAFF.

# 2023 National Champions

## 15-0

**GAME 1**  
SEPT 2, 2023 | 12:00 | Peacock  
MICHIGAN STADIUM  
ANN ARBOR, MICHIGAN

**30-3**

1	2	3	4
0	0	0	0
7	16	7	0

**GAME 2**  
SEPT 9, 2023 | 3:30 | CBS  
MICHIGAN STADIUM  
ANN ARBOR, MICHIGAN

**35-7**

1	2	3	4
0	0	0	7
7	14	14	0

**GAME 3**  
SEPT 16, 2023 | 7:30 | BTN  
MICHIGAN STADIUM  
ANN ARBOR, MICHIGAN

**31-6**

1	2	3	4
0	6	0	0
7	7	17	0

**GAME 4**  
SEPT 23, 2023 | 12:00 | BTN  
MICHIGAN STADIUM  
ANN ARBOR, MICHIGAN

**31-7**

1	2	3	4
7	0	0	0
7	7	10	7

**GAME 5**  
SEPT 30, 2023 | 3:30 | FOX  
MEMORIAL STADIUM  
LINCOLN, NEBRASKA

**45-7**

1	2	3	4
14	14	7	10
0	0	0	7

**GAME 6**  
OCT 7, 2023 | 7:30 | NBC  
HUNTINGTON BANK STADIUM  
MINNEAPOLIS, MINNESOTA

**52-10**

1	2	3	4
10	14	21	7
3	7	0	0

**GAME 15**  
JAN 8, 2024 | 7:30 | ESPN  
NRG STADIUM  
HOUSTON, TEXAS

**34-13**

1	2	3	4
3	7	3	0
14	3	3	14

**GAME 13**  
DEC 2, 2023 | 8:00 | FOX  
LUCAS OIL STADIUM  
INDIANAPOLIS, INDIANA

**26-0**

1	2	3	4
10	0	10	6
0	0	0	0

**GAME 14**  
JAN 1, 2024 | 5:00 | ESPN  
ROSE BOWL STADIUM  
PASADENA, CALIFORNIA

**27-20**

1	2	3	4	OT
7	3	0	10	0
7	6	0	7	7

**2024 NATIONAL CHAMPIONSHIP**

**2023 BIG CHAMPIONSHIP**  
DISCOVER



**GAME 7**  
OCT 14, 2023 | 12:00 | FOX  
MICHIGAN STADIUM  
ANN ARBOR, MICHIGAN

**52-7**

1	2	3	4
7	0	0	0
0	21	17	14

**GAME 8**  
OCT 21, 2023 | 7:30 | NBC  
SPARTAN STADIUM  
EAST LANSING, MICHIGAN

**49-0**

1	2	3	4
14	14	14	7
0	0	0	0

**GAME 9**  
NOV 4, 2023 | 7:30 | NBC  
MICHIGAN STADIUM  
ANN ARBOR, MICHIGAN

**41-13**

1	2	3	4
0	4	0	7
17	3	7	14

**GAME 10**  
NOV 11, 2023 | 12:00 | FOX  
BEAVER STADIUM  
STATE COLLEGE, PENNSYLVANIA

**24-15**

1	2	3	4
0	14	3	7
3	6	0	6

**GAME 11**  
NOV 18, 2023 | 12:00 | FOX  
SECO STADIUM  
COLLEGE PARK, MARYLAND

**31-24**

1	2	3	4
16	7	6	2
3	7	14	0

**GAME 12**  
NOV 25, 2023 | 12:00 | FOX  
MICHIGAN STADIUM  
ANN ARBOR, MICHIGAN

**30-24**

1	2	3	4
3	7	7	7
7	7	10	6

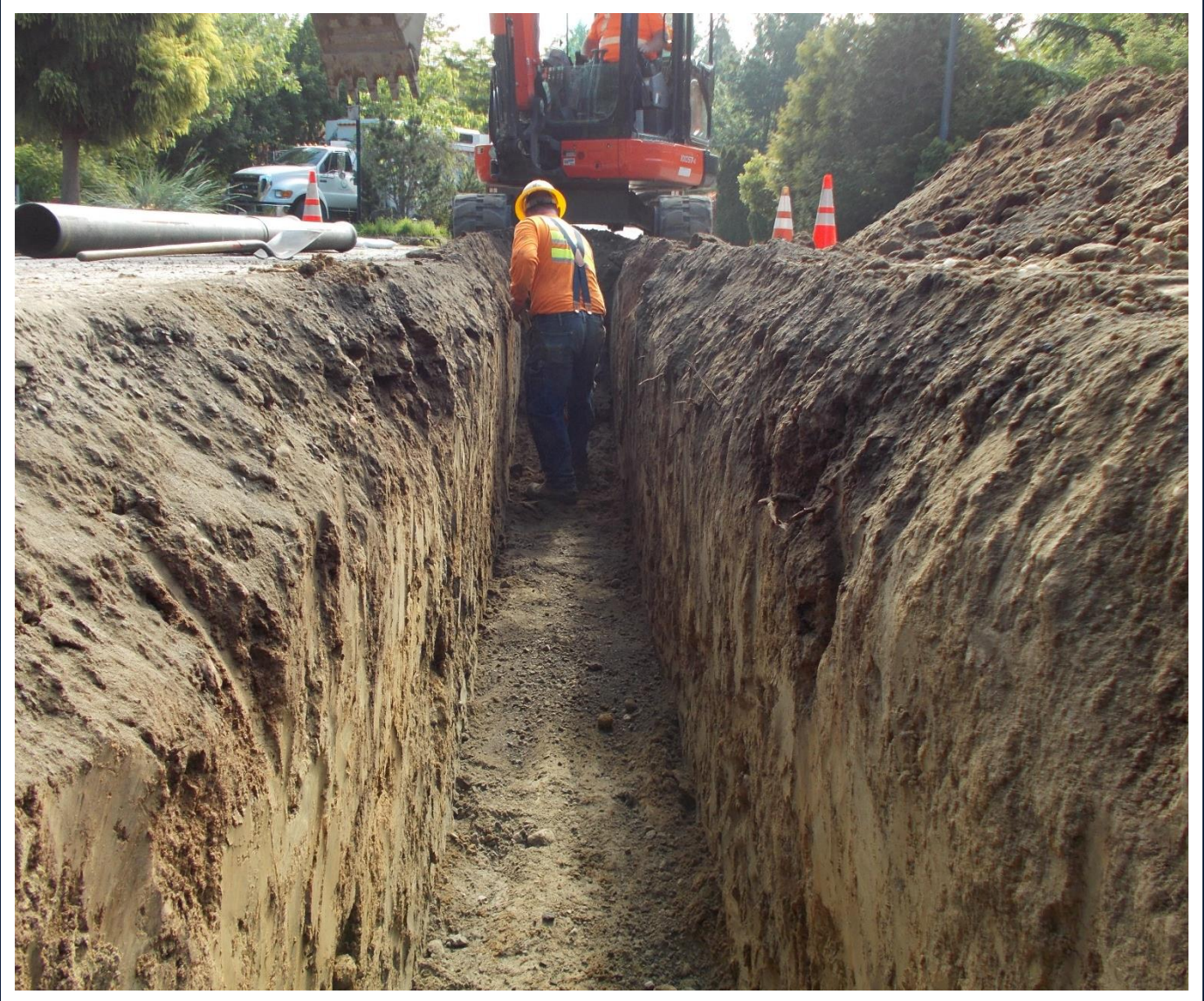


# DIY Main Replacement Project.

## Why do it yourself?

1. Be a "Good Steward" of rate payer dollars.
2. Expedite your project.
3. You already have the personnel.
4. Who knows your system standards better than you.

AND



# DIY Main Replacement Project.

6. Because you can.

The Washington State Legislature passed  
HB 1621 raising the dollar limit for Special  
Purpose district work.

SUBSTITUTE HOUSE BILL 1621 AS AMENDED BY THE SENATE Passed  
Legislature - 2023 Regular Session State of Washington 68th Legislature  
2023 Regular Session By House Local Government (originally sponsored by  
Representatives Ryu, Duerr, Pollet, Kloba, and Senn) READ FIRST TIME  
02/14/23.

(2) Any work ordered by a district commission, the estimated cost 18 of which is in excess of ((fifty thousand dollars, exclusive of sales 19 tax)) \$150,000 exclusive of sales tax if more than a single craft or 20 trade is involved with the public works project, or a public works 21 project in excess of \$75,500 exclusive of sales tax if only a single 1 craft or trade is involved with the public works project, shall be by 2 contract. However, a district commission may have its own regularly 3 employed personnel perform work which is an accepted industry 4 practice under prudent utility management without a contract. For 5 purposes of this section, "prudent utility management" means 6 performing work with regularly employed personnel utilizing material 7 of a worth not exceeding ((three hundred thousand dollars)) \$300,000 8 in value without a contract. This limit on the value of material 9 being utilized in work being performed by regularly employed 10 personnel shall not include the value of individual items of 11 equipment. For the purposes of this section, the term "equipment" 12 includes but is not limited to conductor, cabling, wire, pipe, or 13 lines used for electrical, water, fiber optic, or telecommunications.

# DIY Water Main Replacement Projects

- DO I NEED TO REPLACE A MAIN?
- Are having constant main failures in a section of pipe?
- Do I have aging and/or undersized infrastructure?
- Are cities or counties developing road improvement project?

# DIY Water Main Replacement Projects

- WHERE DO I START?
- Determine your project limits.
- Utilize staff experience for design development.
- Call in a design locate.
- Check field locates to ensure alignment will work and adjust as needed.

# DIY Water Main Replacement Projects

- THE NEXT STEP.
- Do I have all the equipment I need?



# DIY Water Main Replacement Projects

THE NEXT STEP.

Apply for permits.

Order materials.

Notify customers.

**FEBRUARY 7, 2023**  
**NOTICE OF CONSTRUCTION**  
**33<sup>RD</sup> AVE S & s 259<sup>TH</sup> PL WATER MAIN REPLACEMENT**

Dear Valued Customer:

Highline Water District plans to upgrade the existing water main near your home. The new water main will be made of modern materials and installed using current construction practices. The District will utilize its own construction crews to perform the work. Construction is anticipated to start the week of March 1st (weather dependent) and is expected to be completed within six (6) weeks. The District's project is in coordination with the City of Kent overlay program that will occur later this year.

During the construction:

- Your water service may be interrupted temporarily. You will be notified of interruptions to your water service 48 hours in advance unless: (1) the interruption is an emergency, or (2) for construction reasons a minimum notice of 24 hours will be given. Please contact the District as soon as possible if you have special conditions that the interruptions would affect.
- Traffic may be disrupted briefly. Residents will be notified if it becomes necessary to move vehicles parked in the right-of-way or easement. Any inconvenience in access to your residence will also be kept to a minimum.
- The Construction crews will clean up, repair, or replace disturbances to existing facilities resulting from this construction project.
- Emergency services (Police, Fire, etc.) will be maintained at all times.

Following the completion of the work in the project area, the District will install a permanent trench patch in the road (weather dependent). The City of Kent will overlay the road later this year.

Enclosed for your information is a map and a copy of the most frequently asked questions regarding the construction of this project. If you have any questions or concerns, please contact Dave Stanley, Field Supervisor, at (206) 592-8912.

Sincerely,



Phil Hite  
Operations Manager



# DIY Water Main Replacement Projects

Customer Notification :

Frequently Asked Questions.

Telephone: (206) 824-0375  
Fax: (206) 824-0806  
E-mail: mail@highlinewater.org



Polly Daigle  
Todd Fultz  
Vince Koester  
**GENERAL MANAGER**  
Jeremy DelMar

## FREQUENTLY ASKED QUESTIONS (FAQ) 33<sup>RD</sup> AVE S & S 259<sup>TH</sup> PL WATER MAIN REPLACEMENT

- Q1. Please describe this project.**  
A. *The scope of work generally consists of installation of approximately 1,200' LF of 8" diameter ductile iron pipe to replace existing 6" water mains. Work will also include the installation of new water services and other associated water system work, pavement, and landscape restoration. The District's work is in coordination with the City of Kent overlay program.*
- Q2. When will the project begin and how long will it take?**  
A. *We expect to begin construction the week of March 1, 2023 (weather dependent). The water work will take approximately six (6) weeks to complete. The District's asphalt contractor will return to patch the street within 30 days after completion of the water work (weather dependent).*
- Q3. What will be the hours of work?**  
A. *Water work will commence Monday through Friday, typically between the hours of 7:00 a.m. and 6:00 p.m. We do not anticipate water work on evenings, weekends, or holidays.*
- Q4. I am not within the project limits. Why am I receiving this letter?**  
A. *You are receiving this letter due to the proximity of your residence or business to the project location. The District desires to keep the neighborhood informed to minimize the inconvenience of construction.*
- Q5. How much will this project raise my bill?**  
A. *The project is funded by existing Rates/Capital Reserves. Your property will not be assessed any additional funds to pay for the project.*
- Q6. How long will my service interruption be?**  
A. *Service to our customers is cut-off only when absolutely necessary in order to make a connection to a new main, service line or an emergency repair. The service crew will restore service as soon as possible. Unless it is an emergency, the customer will be notified via a door hanger and/or a staff visit 48 hours in advance of any scheduled shutoff. Typical service interruptions range between one to four hours. Please contact the District as soon as possible if you have special conditions that would be adversely impacted by a water shutdown, or if your service is not restarted by 6:00 PM.*
- Q7. Will I have access to my Driveway?**  
A. *Traffic to your property may be disrupted briefly for short periods of time. Residents will be notified if it becomes necessary to move vehicles parked in the right-of-way. Our goal is to keep any inconvenience in access to your residence to a minimum. Emergency services (Police, Fire, etc.) will be maintained at all times.*
- Q8. What type of road surface restoration is the District doing to the existing road?**  
A. *Following the completion of work in the project area, the District will temporarily trench patch the road. The District's asphalt contractor will permanently patch the road within 30 days of completion. The City of Kent is scheduled to return to the site in the summer of 2022 to perform a full street overlay.*
- Q9. With the new construction, should I be concerned about the safety of my water?**  
A. *Before the new main is put in service, it will be disinfected, flushed, and sampled for purity per industry and regulatory standards.*









# DIY Water Main Replacement Projects

Customer Notification :  
Frequently Asked Questions.

## FREQUENTLY ASKED QUESTIONS (FAQ) 33<sup>RD</sup> AVE S & S 259<sup>TH</sup> PL WATER MAIN REPLACEMENT

Q10. What are all those painted lines on the ground?

A. *Before a construction project begins, all the local utilities must locate and mark their underground facilities. Each utility uses a different color as shown below:*

 PROPOSED EXCAVATION	 COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
 TEMPORARY SURVEY MARKINGS	 POTABLE WATER
 ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES	 RECLAIMED WATER, IRRIGATION AND SLURRY LINES
 GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS	 SEWER AND DRAIN LINES

Q11. Are there other potential impacts to my water service?

A. *Yes, if you are a property within the project limits, the District will be replacing designated water services. If not already equipped, the District will be installing a check valve with each meter exchange to prevent draining of your plumbing when interruption of service occurs in the future. With the installation of the check valve, your plumbing becomes a "closed" system. You will need to take safeguards to protect against pressure buildup in your system caused by thermal expansion from a hot water heater or boiler. At a minimum, a pressure relief valve must be properly installed to prevent potential system damage (typically installed on or near the water tank). Additional pressure limiting devices may also be necessary, such as a thermal expansion tank. If you have any questions or need further information regarding this device, you may contact Dave Stanley, Field Supervisor, at 206-592-8912, or call a licensed plumber or contractor to find out if your plumbing system is properly protected.*

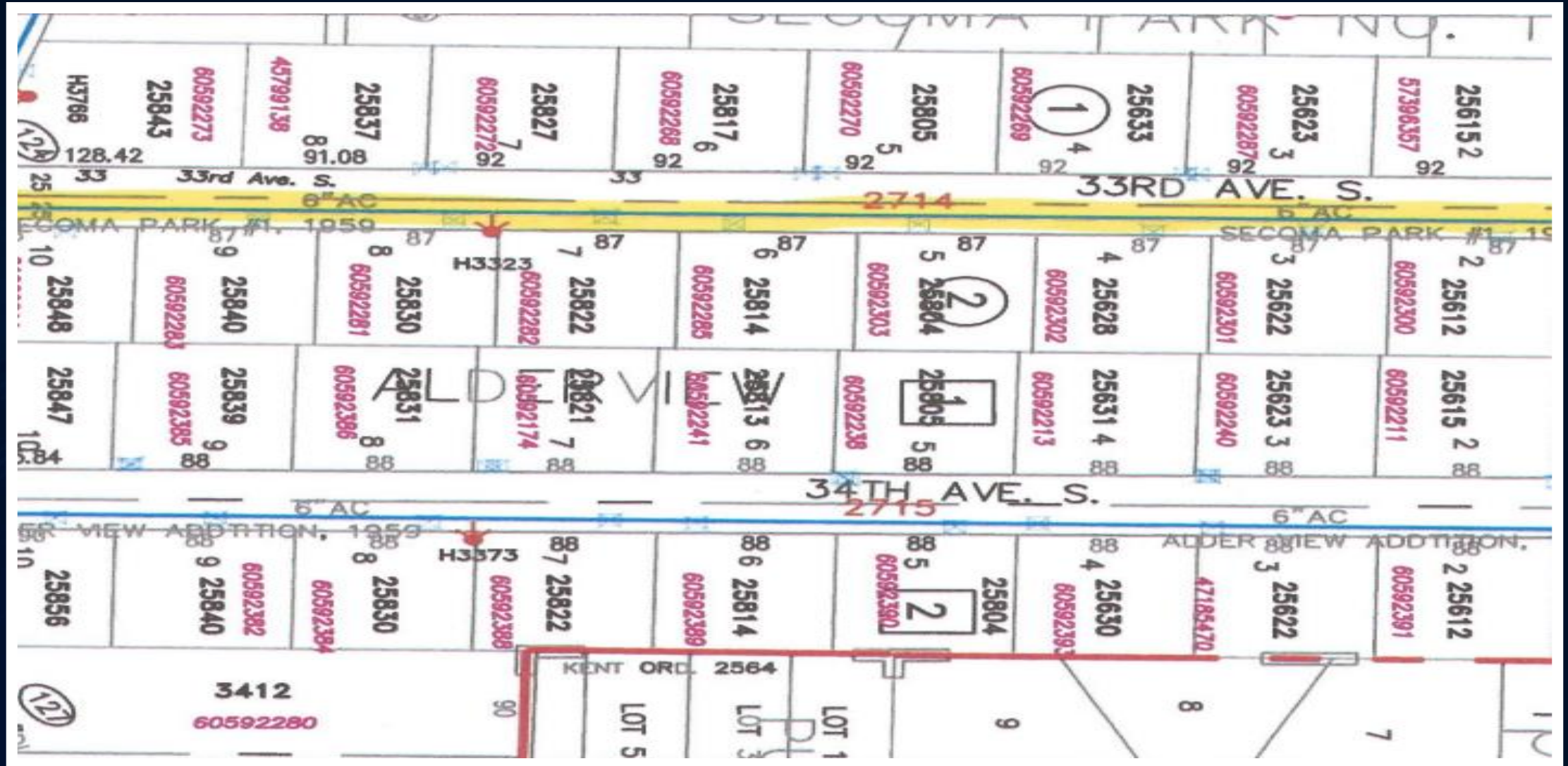
Q12. If I have problems or questions, who is the District contact?

A. 

Dave Stanley Field Supervisor DL: 206-592-8912 / FAX: 206-824-0806 Email: <a href="mailto:dstanley@highlinewater.org">dstanley@highlinewater.org</a>	or	Phil Hite Operations Manager DL: 206-592-8910 / FAX: 206-824-0806 Email: <a href="mailto:phite@highlinewater.org">phite@highlinewater.org</a>
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# DIY Water Main Replacement Projects

Customer Notification :  
Project Location Map



# DIY Water Main Replacement Projects

Prepare a schedule.

Find a laydown yard.

Determine flushing strategy.

Walk the project with your crew.

3/9 Grind Pot Hole	3/10 Grind Pot Hole String Pipe Lay first stick Install blow off	3/11 Lay Main	3/12 Lay Main	3/13 Lay Main Fill pipe
3/16 Pig & Flush Pressure test main	3/17 Sample	3/18 Do crossing on SW 19 <sup>1st</sup> & 4 <sup>th</sup> AV SW	3/19 Wait for results	3/20 Connect B/O Install 4 services 2 pairs 1 push 1 short
3/23 Install 4 services 2 pair Both pushes	3/24 Install 3 services 1 pair pushes 1 short	3/25 Install 3 services 1 pair pushes 1 short	3/26 Make Final Connection	3/27 Final Restoration

# DIY Water Main Replacement Projects

Begin Construction.

Asphalt removal & pot holing.

Install water main.

Cook, flush and pressure test.

Purity samples.

First connection.

Services.

Final connection.

Decommission existing main.

Final restoration.



# DIY Water Main Replacement Projects

## Material Expenses

2nd AV SW Main Replacement							
Materials:							
Quantity	Description	Part #	Price	Total			
450	8" DI Pipe	K8027	24.5 per ft	\$11,025.00			
2	8" FL x MJ Gate Valve	V923	\$897.00	\$1,794.00			
1	8" FL Tee	K8065	\$803.00	\$803.00			
1	8"x6" FL x MJ Tee	K8041	259	\$259.00			
1	8" x 6" MJ x FL Reducer	K8030	\$265.00	\$265.00			
1	6" x 8" MJ x PE Reducer	K8067	\$125.00	\$125.00			
2	6" MJ Sleeves	J6059	\$70.00	\$140.00			
1	8" MJ Plug	K8029	\$95.00	\$95.00			
1	4' Bury Hydrant	HYD03	\$1,800.00	\$1,800.00			
1	6" Gate Valve FL x MJ	V920	\$572.00	\$572.00			
30'	6" DI Pipe	J6058	20 per ft	\$600.00			
420'	1" Copper Tubing	B1138	4.22 per ft	\$1,772.40			
11	3/4" x 15" Setters	B1142	\$137.25	\$1,509.75			
11	B-10 Meter boxes	MBP04	\$52.00	\$763.00			
11	B-10 Plastic Lids	MMP09	\$39.00	\$429.00			
11	1" Corps	B1118	\$63.00	\$429.00			
11	3/4" x 1" MIP x Compression Adapters	A7514	\$15.00	\$165.00			
22	3/4" MIP x Compression Adapters	A7515	\$14.00	\$308.00			
22	3/4" Brass 90s	A7529	\$5.00	\$110.00			
3	Valve box complete		\$150.00	\$450.00			
3	6" MJ 45's	J6031	110	\$330.00			
25	8" Field Lock Gaskets	K8043	\$135.00	\$3,375.00			
3	8" Mega Lugs	K8059	\$60.00	\$180.00			
12	6" Mega Lugs	J6100	\$45.00	\$540.00			
				<b>Total Materials</b>	<b>\$27,839.15</b>		

# DIY Water Main Replacement Projects

## Labor Expenses

2nd AV SW Main Replacement							
Labor							
	Description	Personnel		Rate/Hour		Hours	Expense
Day 1	Install watermain.	4		54		8	\$1,728.00
Day 2	Install watermain.	4		54		8	\$1,728.00
Day 3	Install watermain.	4		54		8	\$1,728.00
Day 4	Install watermain.	4		54		8	\$1,728.00
Day 5	PSI Test	4		54		4	\$864.00
Day 6	6 Services	4		54		8	\$1,728.00
Day 7	5 services	4		54		8	\$1,728.00
Day 8	Final Connection	4		54		8	\$1,728.00
Day 9	Final Restoration	4		54		8	\$1,728.00
						Total Labor	\$14,688.00

# DIY Water Main Replacement Projects

## Equipment Expenses

Equipment									
Day 1									
Description	Equipment	per hour rate	hours	Expense					
Prep, string pipe, install watermain.									
Service truck	68	32	8	\$256.00					
Dump Truck	84	56	4	\$224.00					
Backhoe	3 & 63	37	7 ea	\$518.00					
Flat Bed	60	25	2	\$50.00					
				Total	\$1,048.00				
Day 2		Install watermain							
Description	Equipment	per hour rate	hours	Expense					
Service Truck	68	32	8	\$256.00					
Dump Truck	84	56	4	\$224.00					
Backhoe	3 & 63	37	7 ea	\$518.00					
Flatbed	60	25	2	\$50.00					
				Total	\$1,048.00				
2nd AV SW Main Replacement									
Day 3		Install watermain							
Description	Equipment	per hour rate	hours	Expense					
Service Truck	68	32	8	\$256.00					
Dump Truck	84	56	4	\$224.00					
Backhoe	3 & 63	37	7 ea	\$518.00					
Flatbed	60	25	2	\$50.00					
				Total	\$1,048.00				
Day 4		PSI test, flush and sample							
Description	Equipment	per hour rate	hours	Expense					
Service Truck	68	32	4	\$128.00					
				Total	\$128.00				



# DIY Water Main Replacement Projects

## Equipment Expenses

2nd AV SW Main Replacement							
Day 6 Install Services							
Description	Equipment	per hour rate	hours	Expense			
Service Truck	68	32	8	\$256.00			
Dump Truck	84	56	4	\$224.00			
Backhoe	3 & 63	37	7 ea	\$518.00			
Flatbed	60	25	2	\$50.00			
				Total	\$1,048.00		
Day 7 Install Services							
Description	Equipment	per hour rate	hours	Expense			
Service Truck	68	32	8	\$256.00			
Dump Truck	84	56	4	\$224.00			
Backhoe	3 & 63	37	7 ea	\$518.00			
Flatbed	60	25	2	\$50.00			
				Total	\$1,048.00		
Day 8 Final Connection							
Description	Equipment	per hour rate	hours	Expense			
Service Truck	68	32	8	\$256.00			
Dump Truck	84	56	4	\$224.00			
Backhoe	3	37	7	\$259.00			
Flatbed	60	35	2	\$50.00			
				Total	\$789.00		

# DIY Water Main Replacement Projects

## Equipment / Total Expenses

2nd AV SW Main Replacement							
Day 9 Final Restoration							
		Equipment		per hour rate		hours	Expense
Service Truck		68		32		8	\$256.00
Dump Truck		84		56		4	\$224.00
Backhoe		3		37		7	\$259.00
Flatbed		60		25		2	\$50.00
						Total	\$789.00
Total Expense							
	Equipment	Labor		Materials			
D 1	\$1,048.00						
D 2	\$1,048.00						
D 3	\$1,048.00						
D 4	\$1,048.00						
D 5	\$128.00						
D 6	\$1,048.00						
D 7	\$1,048.00						
D 8	\$789.00						
D 9	\$789.00						
TOTAL	\$7,994.00	\$14,688.00		\$27,839.15		Total Expense	\$50,521.15

# DIY Water Main Replacement Projects



- Using your current Personnel.
- Save Rate Payers Money.
- Save Time-Expedite your project.
- Challenge your crew.
- A Win, Win, Win Proposition.

# DIY Water Main Replacement Projects

QUESTIONS????

PROJECT COMPLETED

DAVE STANLEY

[DAVESH2OSERVICE@YAHOO.COM](mailto:DAVESH2OSERVICE@YAHOO.COM)

206-295-0954