



Water Main Replacement

IN THE AREA OF EMANUEL CLEAVER II BOULEVARD
TO TOPPING AVENUE FROM EAST 39TH STREET TO
EAST 43RD TERRACE



Meeting Logistics and Protocols

- This meeting is being recorded. The recording will be posted on the KC Water website after its conclusion.
- If you wish to ask a question, please use the “Show Conversation” or “Raise Your Hand” feature at the top of your screen.
- If you are participating by phone and wish to ask a question, please address the meeting moderator when comments or questions from phone participants is requested.
- If you still have questions after the meeting, please contact the project manager. Contact information will be provided at the end of the presentation.

Project Team

- Jeff Martin, PE Chief Engineering Officer, Water Service Department
- Melanie Jollett, PE Water Distribution Division Head
- Christian Hoyos KC Water Project Manager
- Prema Railey (Sean Allen) KC Water Inspector
- Bill Clark Pyramid Excavation & Construction, Inc., Superintendent
- John Wright Pyramid Excavation & Construction, Inc., Project Manager

OUR WATER SOURCE



THREE UTILITIES



Water



Wastewater



Stormwater

Assets



1 Water treatment plant
18 Pump stations
2,800 Miles of water main
47,186 Valves
25,240 Fire hydrants



6 Wastewater treatment plants
43 Pump stations
2,552 Miles of sewer main
73,046 Manholes
1,350 Acre farm for biosolids land application

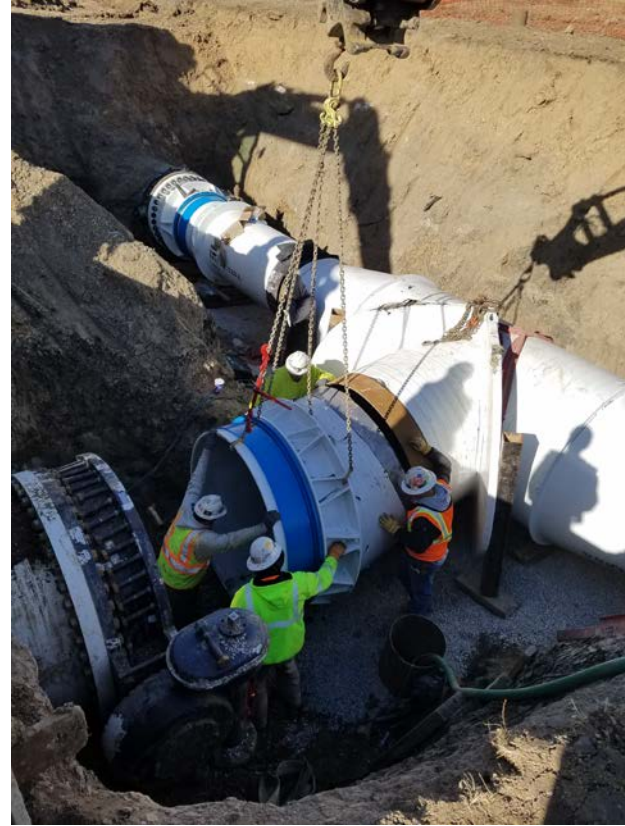


630 Miles of storm sewer
46,745 Storm inlets
15 Flood pump stations
13 Miles of levee
660 Green infrastructure assets



Water Main Replacement Program

- KC Water distribution system includes ~2,800 miles of water mains.
- Some water mains date back to the 1800s.
- Aging infrastructure is a nationwide challenge.
- KC Water WMR Program is to replace **1% per year, or 28 miles**, each year.
- The WMR Program is in its 7th year, and we've replaced more than **200 miles** to date.

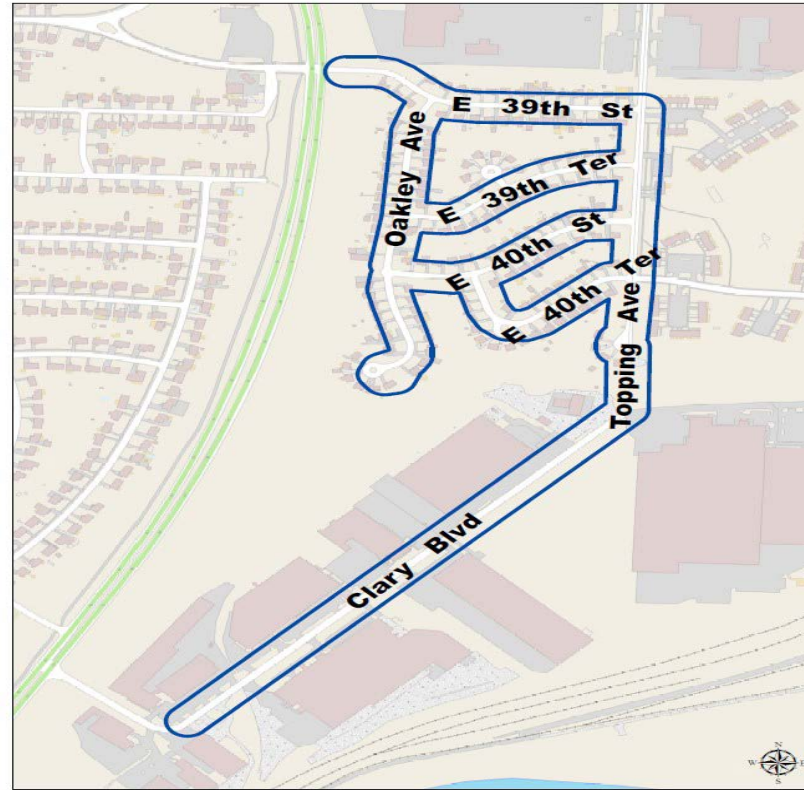


Data-Driven Priorities

- Evaluation of water main condition
- Risk of water mains is determined based on:
 - Likelihood of Failure
 - Consequence of Failure
- WMR Projects are developed and designed; new mains are zinc coated ductile iron wrapped in a polyethylene sleeve.
- This long-term infrastructure plan will reduce service interruptions due to **breaks**, reduce **costs**, and increase **capacity and fire protection**.



Upgrading Your Water Mains

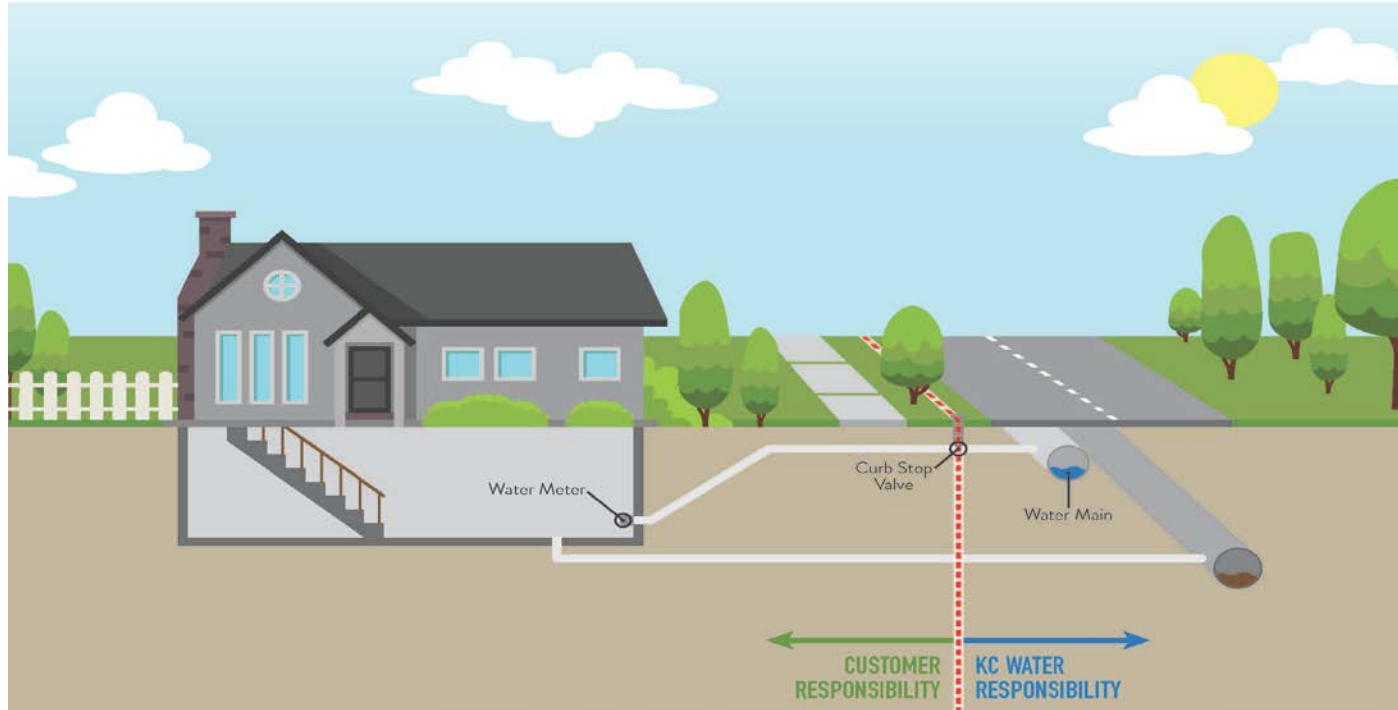


What Happens on Your Block

- Mark utilities and pothole to verify locations and elevations.
- Traffic control plan implemented.
- Saw cut pavement; Excavate narrow trench; Bury new pipe in gravel.
- Construct temporary connection; Test and disinfect the new water main.
*May take a week or more; you'll see little activity. Once the main passes the tests:
1st outage to connect the new main to the existing system.*
- With both new and old water mains in service, transfer customer service lines to the new pipe.
*If your meter is inside, we'll remove it and install a new one in your yard
2nd outage to connect service line*
- Construct permanent connection and abandon the old water main
3rd outage to connect the other end of the new main to be in service
- Restoration – temporary and permanent
We will restore curbs, sidewalks, driveways and, in season, lawns we disturb

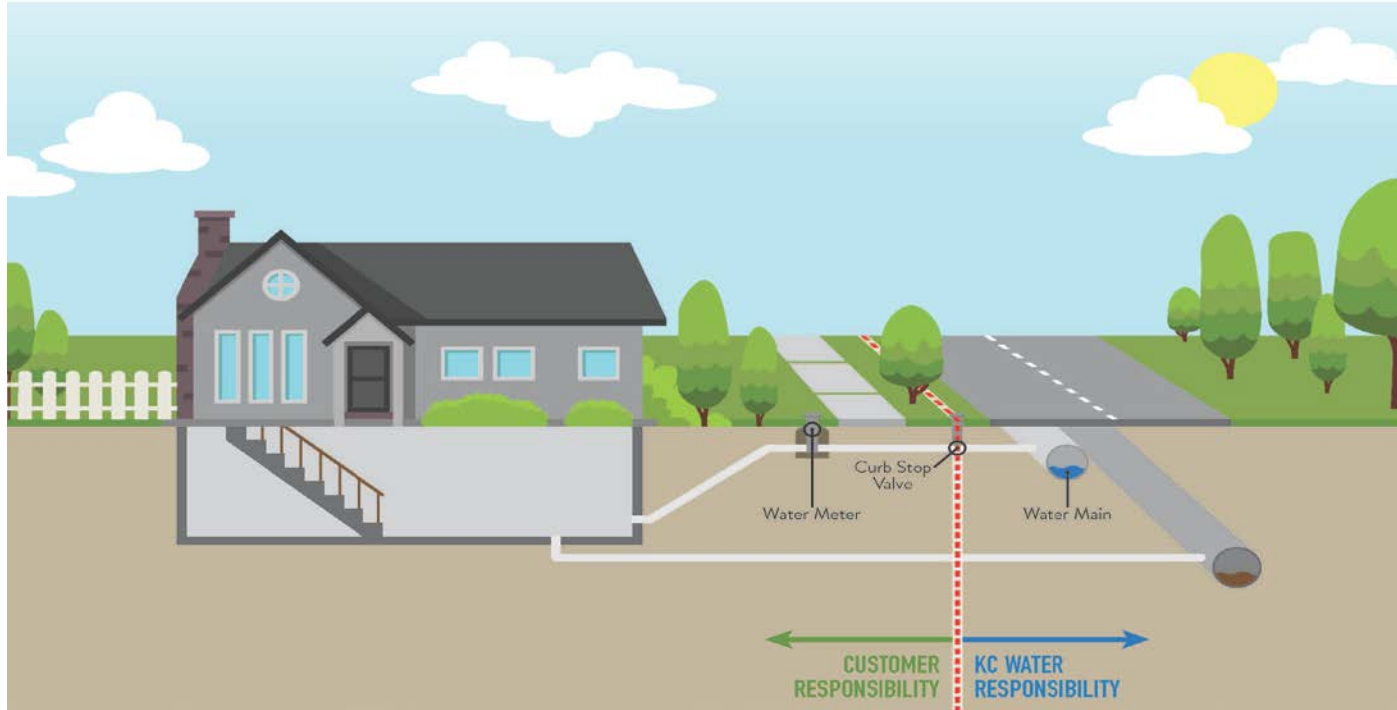
What to Expect

- Large equipment will be in use, creating noise and dusty conditions which will be controlled.
- Water service will be interrupted for short periods of time. You will be notified beforehand with door hangers or by other means.
- Affected curbs, driveways, and other pavement will be restored per KCMO Public Works Department Standards.
- Disturbed established lawn areas will be sodded after work is completed and as the season permits; other areas seeded.
- Ordinary travel routes may be temporarily restricted.
- Reduces the chance of a water main break in the future.
- Fire protection will be enhanced in the neighborhood.





CUSTOMER RESPONSIBILITY (WATER) OUTSIDE WATER METER INSTALLATION



Schedule and Logistics

- Anticipated start date: May 2021
- Project schedule: May 2021 – November 2021
- More information
- Postcard invitation to this meeting
- www.kcwater.us/projects/current-projects
Find this project for an information sheet
- KC Water Project Manager: Christian Hoyos 816-513-0363 christian.hoyos@kcmo.org
- Superintendent: Bill Clark 913-208-0743, Pyramid Excavation
- Project Manager: John Wright 816-238-5991, john@pyramidexcavation.com
- KC Water Inspection: Sean Allen 816-513-0318, Prema Railey, 816-308-5940, prema.railey@kcmo.org



QUESTIONS?





THANK YOU.

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APPENDIX

