



# Water Main Replacement

IN THE AREA OF WEST CITY LIMITS TO WORNALL  
ROAD, W. 85<sup>TH</sup> STREET TO W. 93<sup>RD</sup> STREET AND AT 1-  
143 W. BANNISTER RD



# 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
- Kelly Finn KC Water Project Manager
- Gregg Gillaspie KC Water Inspector
- John Wright Pyramid Excavation, Project Manager

# THREE UTILITIES



Water



Wastewater



Stormwater

# ASSETS



**1 Water Treatment Plant**  
**18 Pump Stations**  
**2,800 Miles of Water Main**  
**35,000 Valves**  
**23,000 Fire Hydrants**



**6 Wastewater Treatment Plants**  
**39 Pump Stations**  
**2,800 Miles of Sewer Main**  
**67,000 Manholes**



**630 Miles of Storm Sewer**  
**53,000 Storm Inlets**  
**15 Stormwater Pump Stations**  
**13.5 Miles of Levee**

# OUR WATER SOURCE





# 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 7<sup>th</sup> year, and we've replaced more than **200 miles** to date.



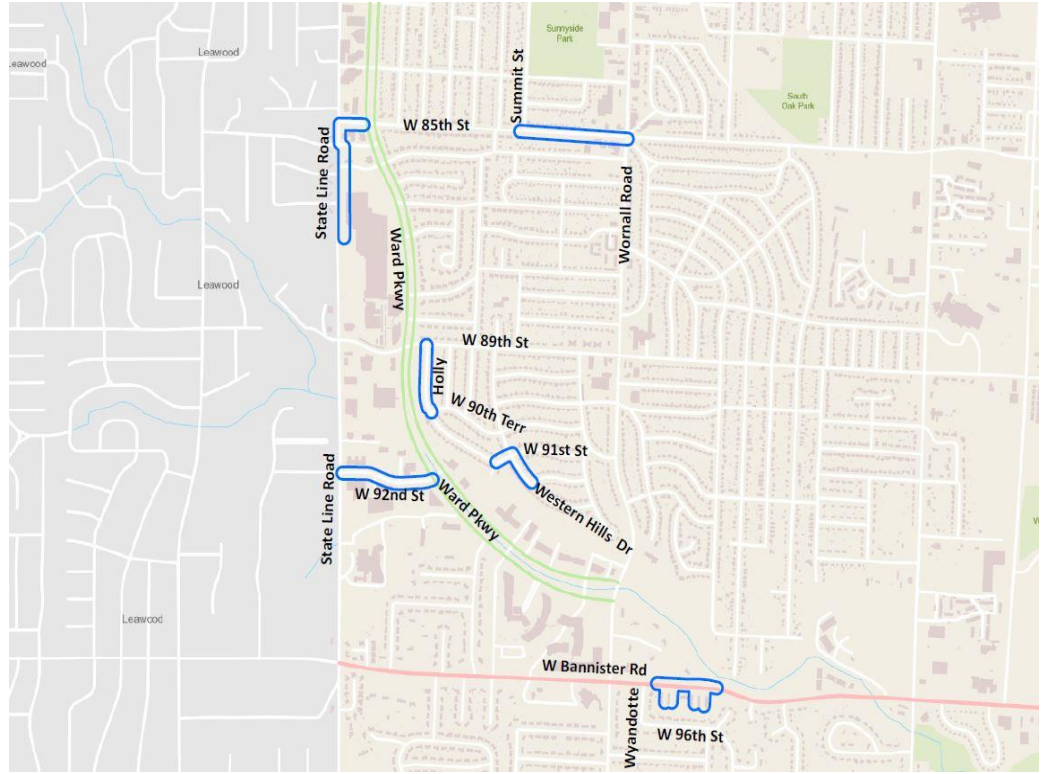
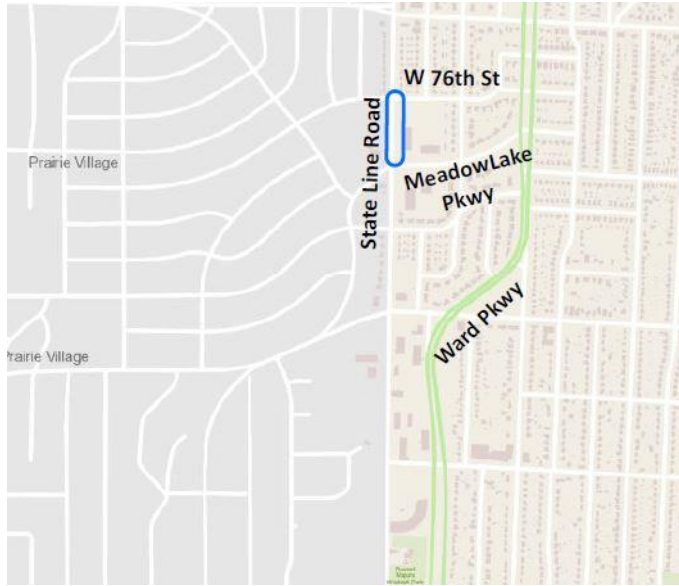
# Data-Driven Priorities

- 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.

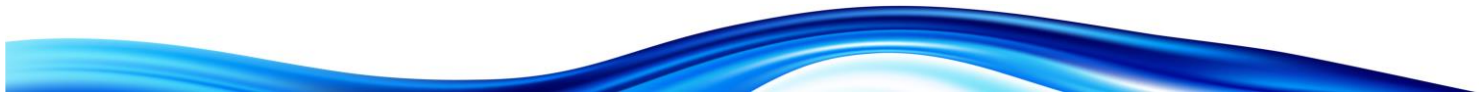
*May take a week or more; you'll see little activity*

- 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*

- Construct permanent connection and abandon the old water main
- Restoration – temporary and permanent

*We will restore curbs, sidewalks, driveways and, in season, lawns we disturb*

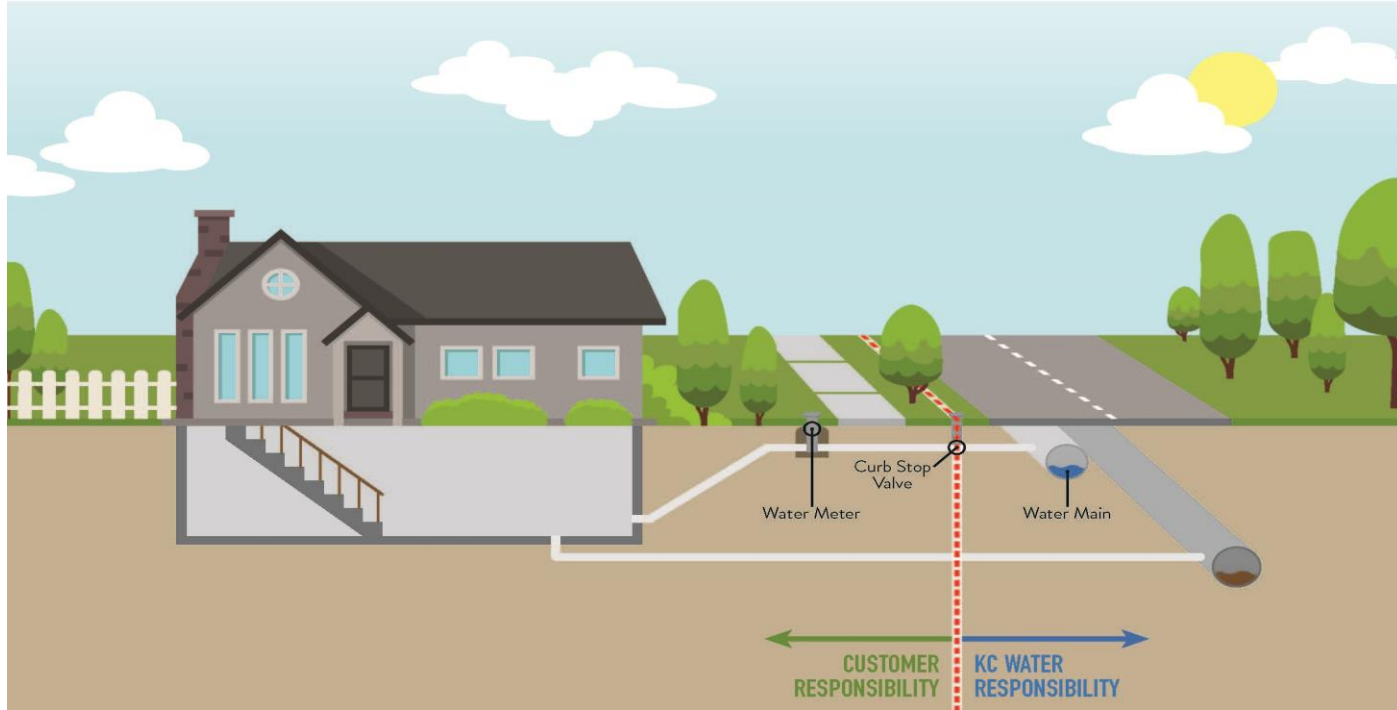


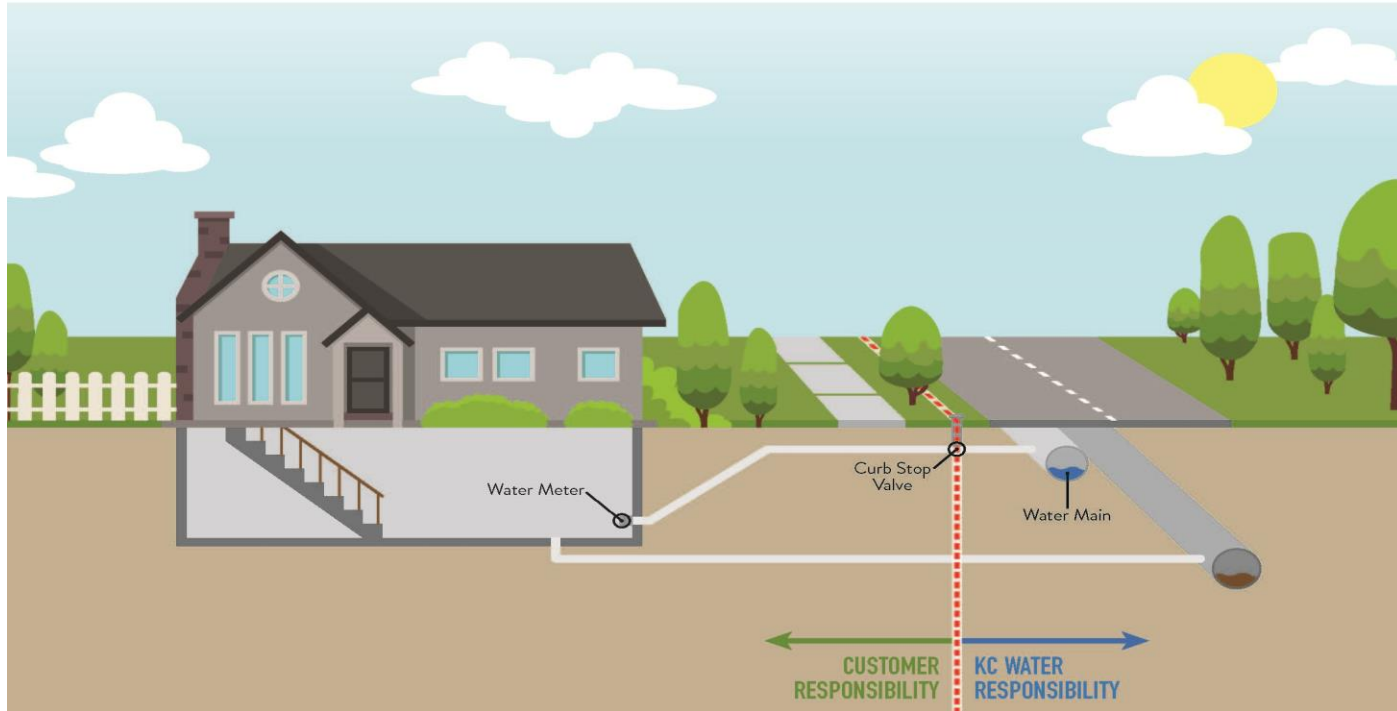
# What to Expect

- 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





# Project Sequencing and Duration

- June 2021 to July 2022
- 8 separate locations
- Start on water main replacements at 1-143 W. Bannister Road.
- Other locations to be scheduled following completion of the initial replacements.
- Contractor to provide written notice prior to start of work in your neighborhood.
- Water main replacement within the Ward Parkway Shopping Center in early 2022.



# Schedule and Logistics

- Anticipated start date: June 2021
- For more information:
  - Postcard invitation to this meeting
  - [www.kcwater.us/projects/current-projects](http://www.kcwater.us/projects/current-projects) and find this project for an information sheet
  - John Wright, Pyramid Excavation, 816-765-4464
  - Gregg Gillaspie, KC Water Resident Inspector, 816-513-0398
  - Kelly Finn, KC Water Project Manager, 816-513-0351



QUESTIONS?





# THANK YOU.

Kelly Finn, Project Manager, KC Water

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