



# Water Main Replacement

IN THE AREA OF JEFFERSON STREET TO MILL CREEK  
PARKWAY, 46<sup>TH</sup> STREET TO WARD PARKWAY



# Project Team Presenters



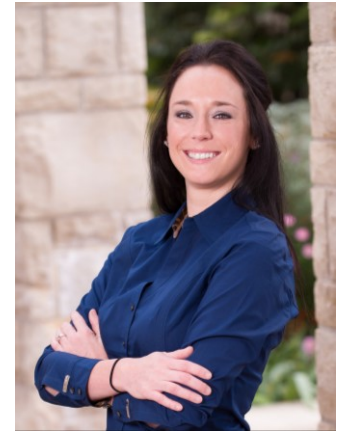
Melanie Jollett  
*KC Water  
Water Distribution  
Division Head*



Terry Thomas  
*KC Water  
Project Manager*



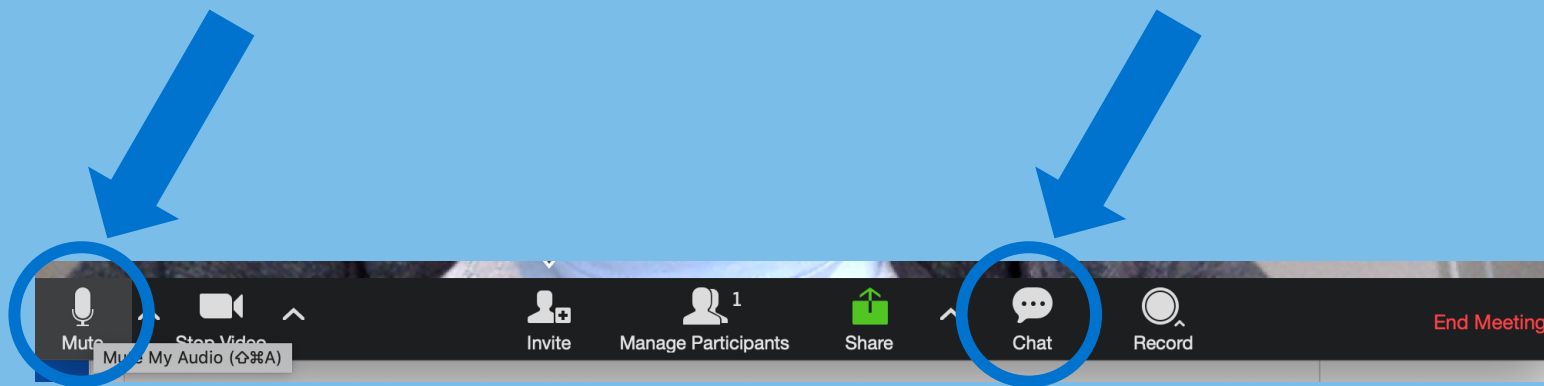
Dave Oshel  
*Leath and Sons  
Contractor*



Shelby Ferguson  
*Shockey Consulting  
Public Outreach*

# Meeting Logistics and Protocols

- Please remain muted during the presentation portions of this meeting.
- Having technical issues? Have a question? Use the chat function and someone from our team will respond and help!



# Meeting Logistics and Protocols

- Join by phone for audio. Instructions can be found in the chat.
  - \*6 – mute/unmute
  - \*9 – raise your hand
- This meeting is being recorded. The recording will be posted on the KC Water website after its conclusion.
- If you still have questions after the meeting, please contact the project manager. Contact information will be provided at the end of the presentation.

# OUR WATER SOURCE



# 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**

# WATER MAIN REPLACEMENT





# Replacing Water Mains: Infrastructure Challenge

- KC Water maintains more than 2,800 miles of drinking water infrastructure.
- Some water mains date back to the 1800s.
- Aging infrastructure is a nationwide challenge.
- KC Water's solution is to replace **1% per year, or 28 miles**, each year.
- Since the start of the program, we've replaced more than **200 miles**.



# Data-Driven Priorities

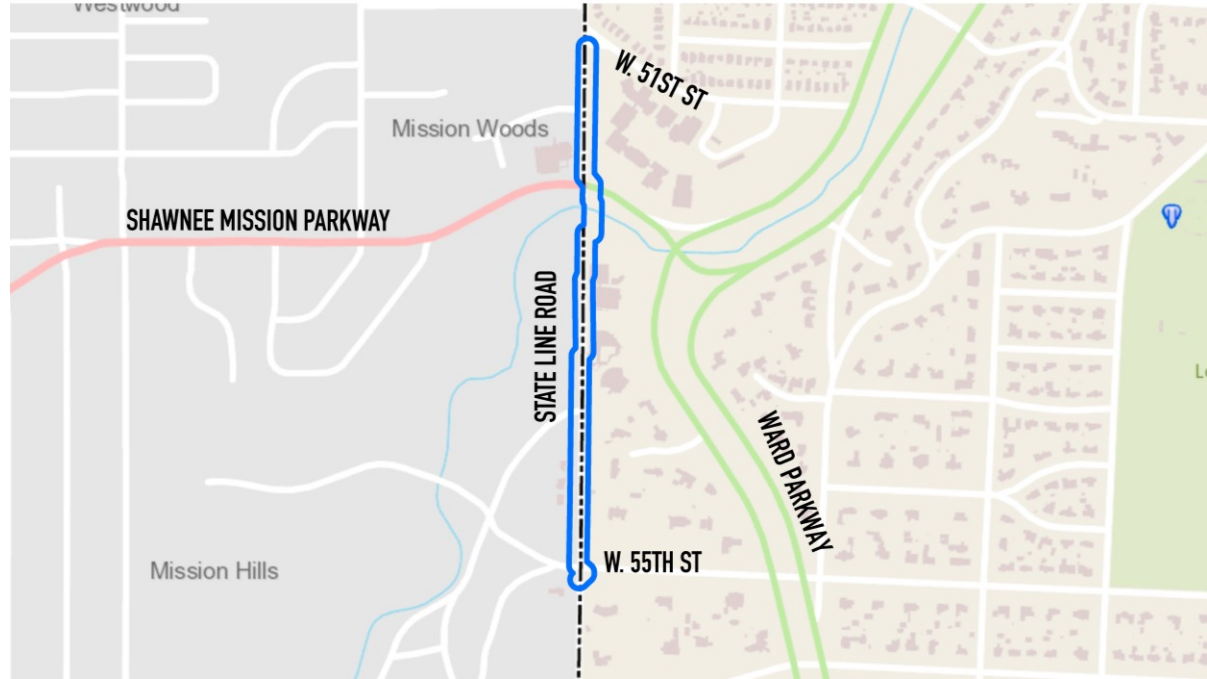
- The water mains with the highest risk are replaced first.
- Each pipe section is rated on two factors:
  - Probability of Failure
  - Consequence of Failure
- New pipe consists of zinc-coated ductile iron pipe wrapped in a polyethylene sleeve and is designed last **100 years** or more.
- This long-term infrastructure plan will reduce service interruptions due to **breaks**, reduce **costs**, and increase **capacity and fire protection**.



# Upgrades on the Plaza Project Area

State Line Road

*(February 2021 – May 2021)*



# Upgrades on the Plaza Project Area

Ward Parkway/49<sup>th</sup> Street  
(February 2021 –May 2021)

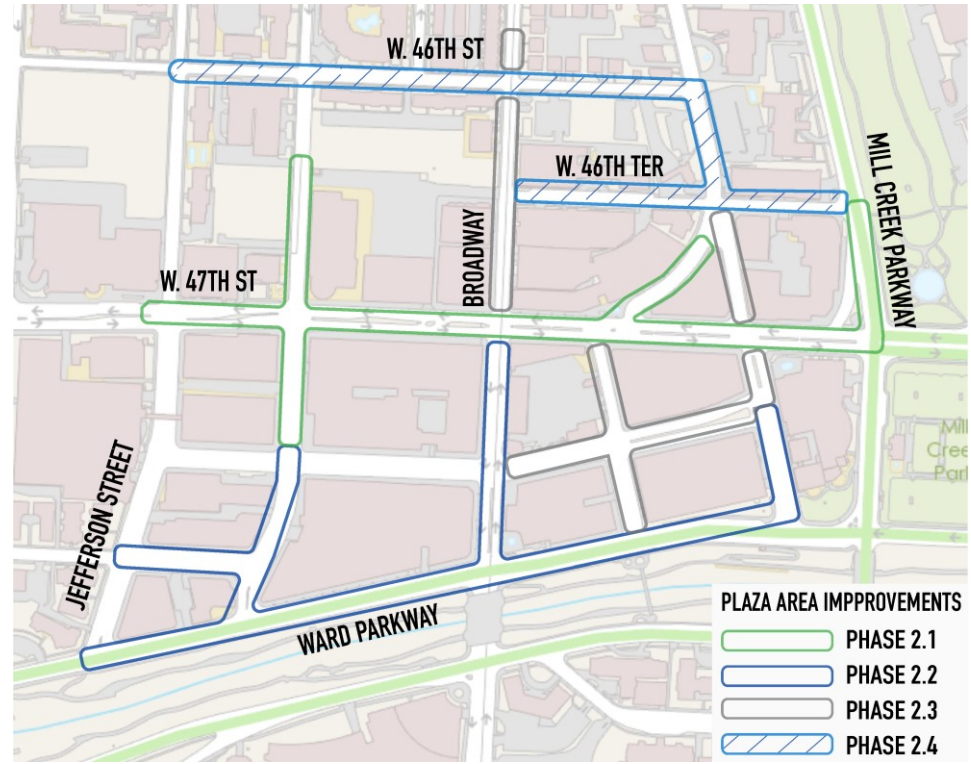




# Upgrades on the Plaza Project Area

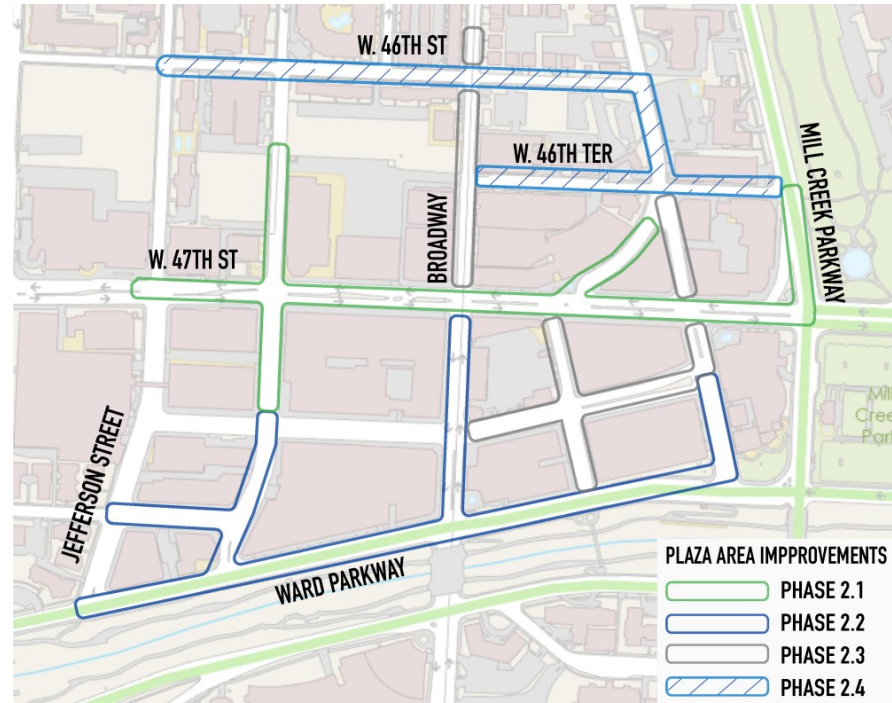
On the Plaza

*(April 2021 –March 2022)*



# Jefferson Street to Mill Creek Parkway, 46<sup>th</sup> Street to Ward Parkway

- Boundaries:
  - North: 46<sup>th</sup> Street
  - South: Ward Parkway
- 13,200 linear feet of water main
- Size of mains
  - 8"
  - 12"
- New valves and fire hydrants along the corridor.





# Anticipated Schedule

- Anticipated start date: April 19, 2021 (weather pending)
  - Project schedule: Mid-April 2021 to March 2022
  - Water main replacement will be in four phases:
    - Phase 1: 47<sup>th</sup> Street – Jefferson going east to Main Street
    - Phase 2: Ward Parkway – Jefferson going east to Wornall Road
    - Phase 3: Nichols Road – Broadway going east to Wyandotte Street
    - Phase 4: 46<sup>th</sup> Street – Jefferson going east to Wornall Road
- Additional segments in each phase – detailed order on project webpage*
- Overall Upgrades on the Plaza project anticipated completion March 2022

# What Happens on Your Block

- Potholing to verify location of other utilities
- Open the trench and bury new pipe

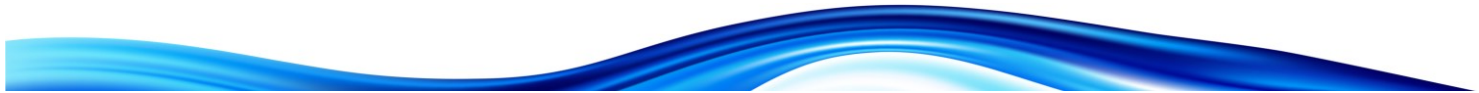
*Crews are on-site to ensure they work quickly to allow ingress and egress as quickly as possible.*

- Connect new pipe to the distribution main and test the connection

*May take a week or two; you'll see no activity*

- Turn off the old water main and turn on the new water main
- Restoration

*We will restore curbs, sidewalks, and, in season, green space we disturb.*



# What to Expect

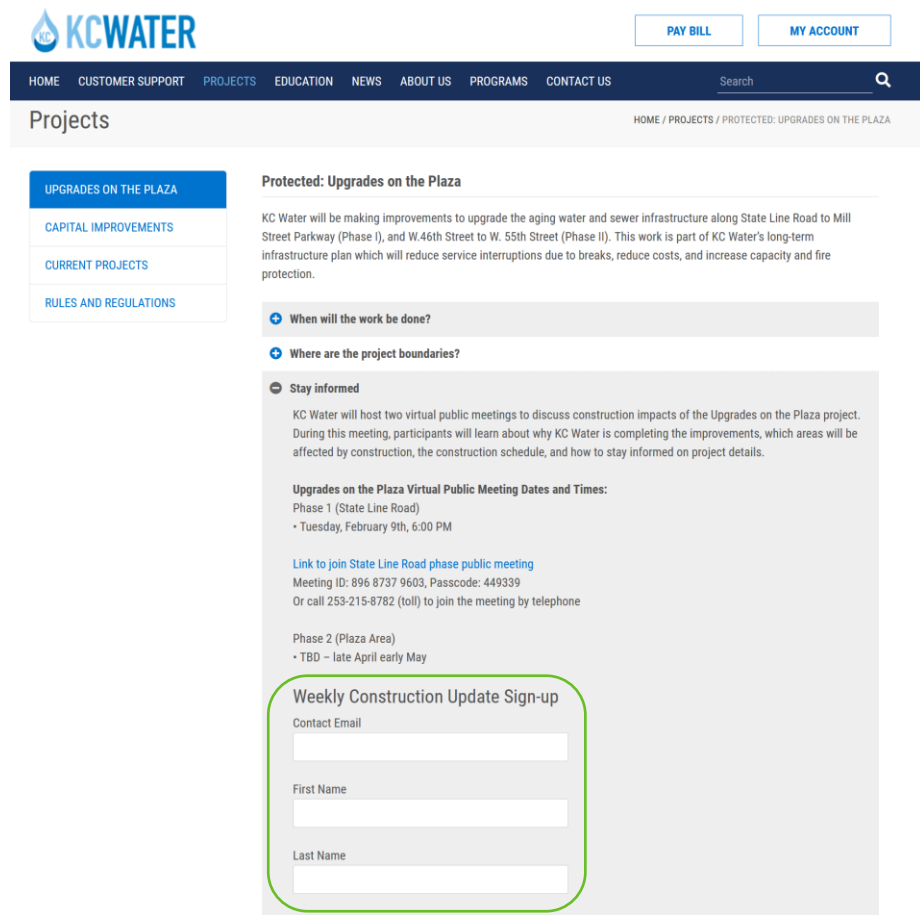
- Large equipment will be in use, creating noise and dusty conditions which will be controlled.
- Water service will be interrupted for short periods of time. You will be notified beforehand with door hangers or by other means.
- Work will take place during business hours (7am – 4pm). Crews will work with businesses to limit visibility and access issues to storefronts.
- Metal plates will be placed over open trenches in the evening to not disrupt access to streets, sidewalks and parking garages.
- Crews will coordinate with tenants and residents as needed for garage access.
- Affected curbs, driveways, and other pavement will be replaced.
- Ordinary travel routes may be temporarily restricted.

KEEP INFORMED



# Keep Informed

- Hotline 816-206-1318
- Email:  
[water.upgradesontheplaza@kcmo.org](mailto:water.upgradesontheplaza@kcmo.org)
- Project Webpage :  
[kcwater.us/upgradesontheplaza](http://kcwater.us/upgradesontheplaza)
- Weekly Construction Update
  - Sign up for this at the top of the homepage
- On-going stakeholder meetings
- Social Media
  - Facebook: KC Water
  - Instagram: [kcmowater](#)
  - Twitter: [@KCMOWater](#)



The screenshot shows the KC Water website's 'Projects' page. The header includes the KC Water logo, navigation links (HOME, CUSTOMER SUPPORT, PROJECTS, EDUCATION, NEWS, ABOUT US, PROGRAMS, CONTACT US), and buttons for 'PAY BILL' and 'MY ACCOUNT'. The 'Projects' section is active, showing a list of project categories: 'UPGRADES ON THE PLAZA' (highlighted), 'CAPITAL IMPROVEMENTS', 'CURRENT PROJECTS', and 'RULES AND REGULATIONS'. The 'Protected: Upgrades on the Plaza' section provides details about infrastructure improvements along State Line Road and W. 46th Street to W. 55th Street. It includes a 'Stay informed' section with virtual public meeting dates and times. At the bottom, a 'Weekly Construction Update Sign-up' form is highlighted with a green border, containing fields for 'Contact Email', 'First Name', and 'Last Name'.

**KC WATER**

[PAY BILL](#) [MY ACCOUNT](#)

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Projects HOME / PROJECTS / PROTECTED: UPGRADES ON THE PLAZA

**UPGRADES ON THE PLAZA**

CAPITAL IMPROVEMENTS

CURRENT PROJECTS

RULES AND REGULATIONS

**Protected: Upgrades on the Plaza**

KC Water will be making improvements to upgrade the aging water and sewer infrastructure along State Line Road to Mill Street Parkway (Phase I), and W.46th Street to W. 55th Street (Phase II). This work is part of KC Water's long-term infrastructure plan which will reduce service interruptions due to breaks, reduce costs, and increase capacity and fire protection.

➔ When will the work be done?

➔ Where are the project boundaries?

☰ Stay informed

KC Water will host two virtual public meetings to discuss construction impacts of the Upgrades on the Plaza project. During this meeting, participants will learn about why KC Water is completing the improvements, which areas will be affected by construction, the construction schedule, and how to stay informed on project details.

**Upgrades on the Plaza Virtual Public Meeting Dates and Times:**

Phase 1 (State Line Road)

- Tuesday, February 9th, 6:00 PM

[Link to join State Line Road phase public meeting](#)

Meeting ID: 896 8737 9603, Passcode: 449339

Or call 253-215-8782 (toll) to join the meeting by telephone

Phase 2 (Plaza Area)

- TBD – late April early May

**Weekly Construction Update Sign-up**

Contact Email

First Name

Last Name

# QUESTIONS?

Terry Thomas

[Terry.D.Thomas@kcmo.org](mailto:Terry.D.Thomas@kcmo.org)

816.513.0262

