



# Save the Rain

## Walton Street - CSO 029 Reduction & Conveyance Modifications Project

Community Meeting  
June 28, 2022



J. Ryan McMahon, II  
County Executive

# Agenda

- 1 Introductions
- 2 Save the Rain Program Overview
- 3 CSO 029 Project Overview
- 4 Construction Overview
- 5 Road and sidewalk closures
- 6 Parking Impacts
- 7 Open Discussion
- 8 Closing



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# Introductions



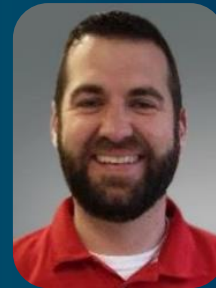
**Adam Woodburn, RLA**

Program Coordinator,  
Stormwater Management  
Onondaga Department of  
Water Environment Protection



**Jed Walsh**

Project Coordinator,  
Save the Rain Program  
Onondaga Department of  
Water Environment Protection



**Benjamin Tillotson, PE**

Project Manager

Arcadis



**Benjamin Taylor, EIT**

Project Engineer

Arcadis



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# Program Overview



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# Combined Sewer System

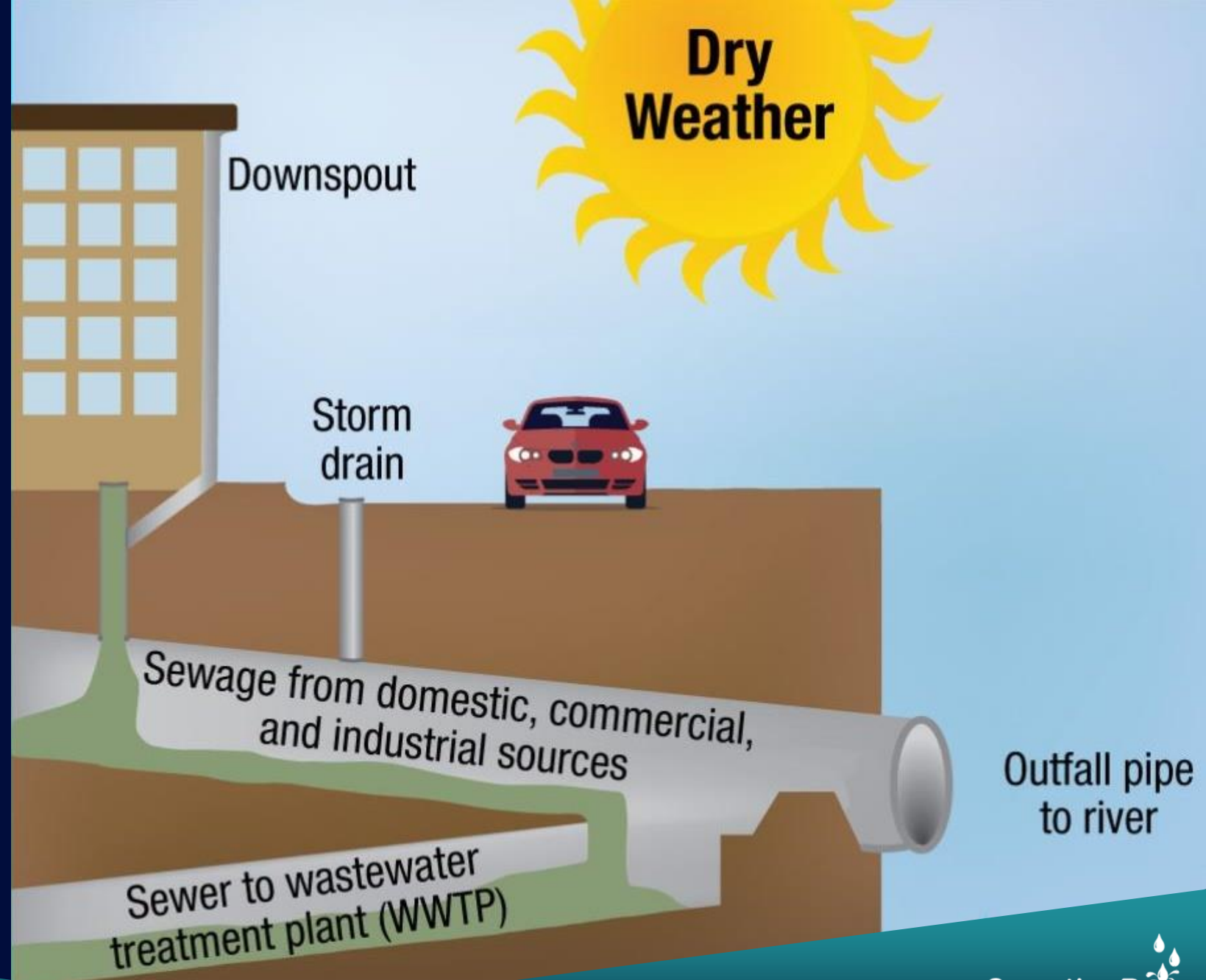
- Infrastructure dates back to 1800s



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# Combined Sewer Overflows

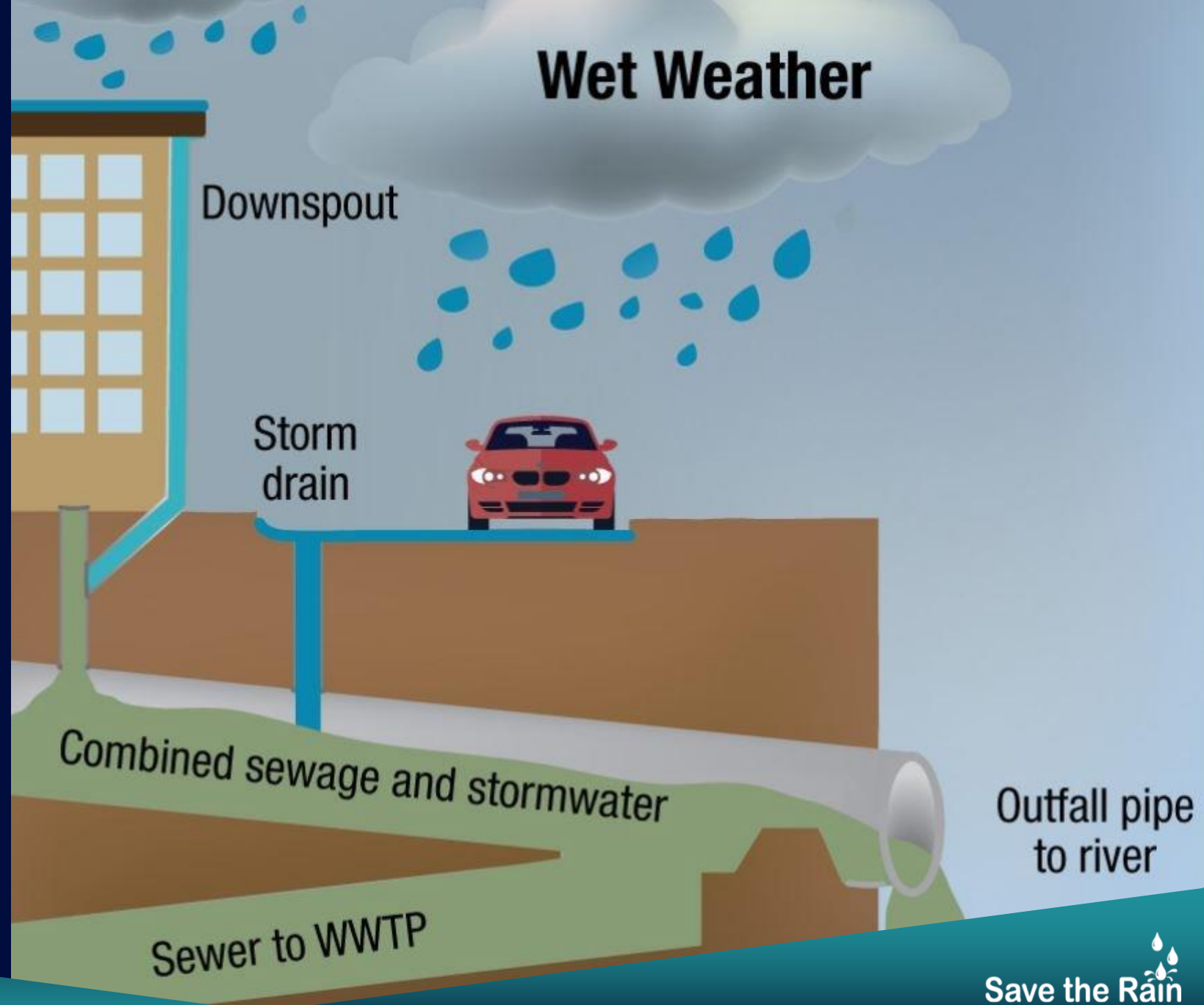
- CSOs occur when stormwater enters the combined sewer system causing system overload. During these overloads, the system releases this excess flow into waterbodies.



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# Combined Sewer Overflows

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# Combined Sewer System

- CSOs Impact Onondaga Lake and Tributaries



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# GREEN

Save the Rain

# GRAY



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# Gray Infrastructure

- Consists of modification of sewer and water treatment infrastructure (i.e. sewer reconfiguration, sewer separation, and storage facilities) to divert water away from CSO-prone areas.



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# Gray Infrastructure Accomplishments

**\$469 MILLION**  
SPENT ON GRAY

**312 MILLION GAL**  
CAPTURED BY GRAY



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# Gray Infrastructure Processes

## STEP 1: Preliminary Treatment

- Screening & Grit Removal
- Low-lift Pump

## STEP 2: Primary & Secondary Treatment

- Primary Clarification
- Aeration
- Secondary Clarification

## STEP 3: Advanced Treatment

- Biological Aerated Filtration
- High-Rate Flocculated Settling
- Ultraviolet Disinfection

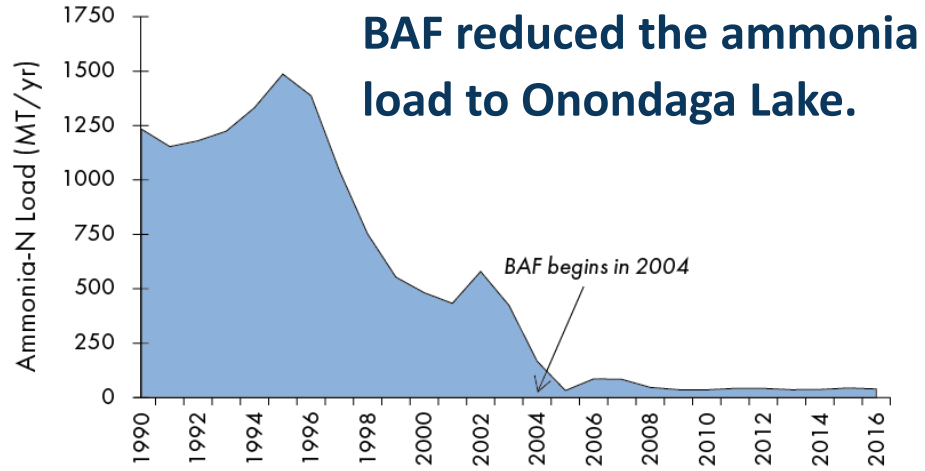
## Solids Treatment & Disposal

- Thickening
- Anaerobic Digestion
- Energy Recovery



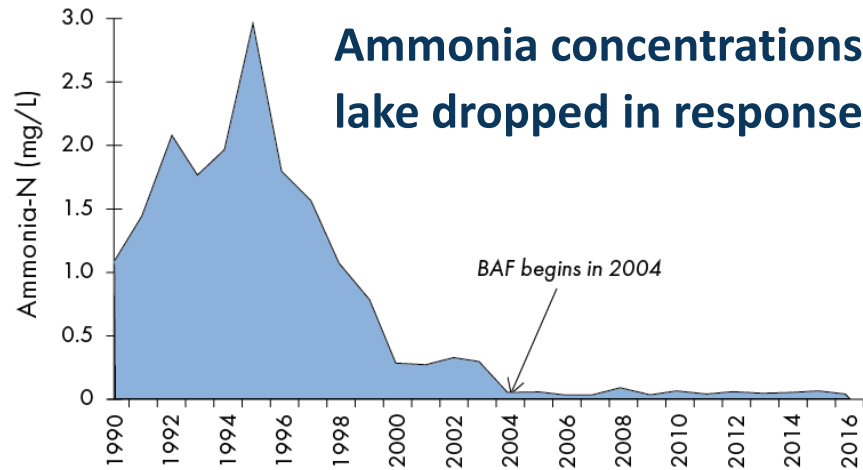
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# METRO



## AMMONIA

# ONONDAGA LAKE



\*Summer avg., upper waters

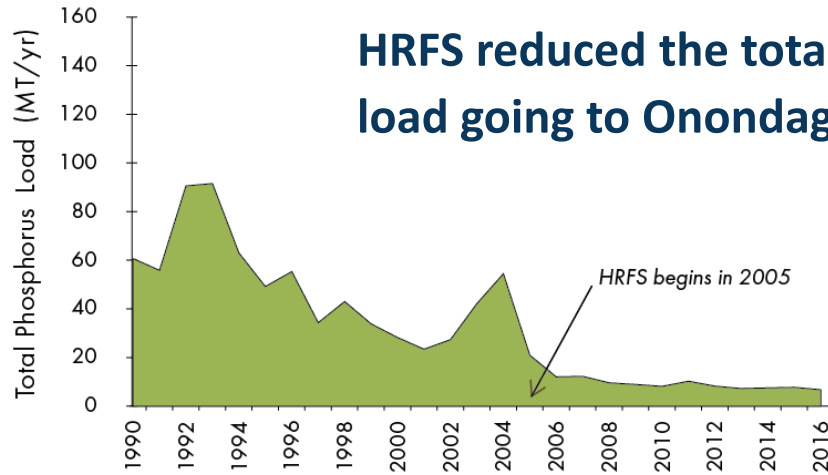


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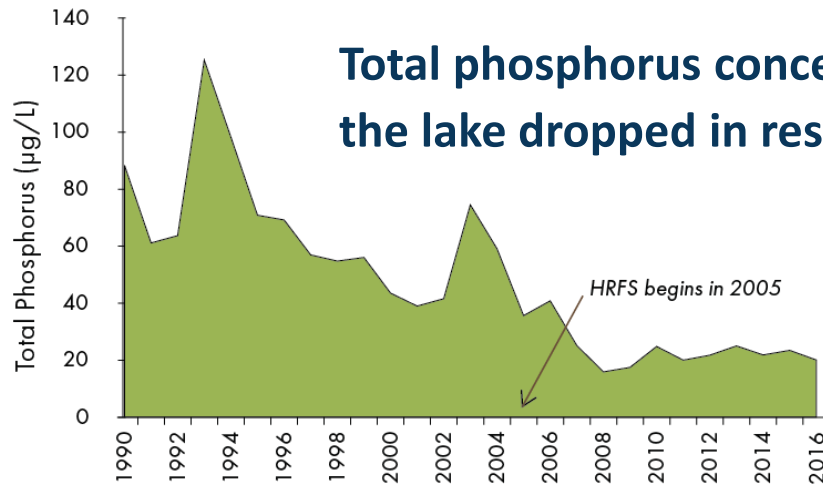


# METRO



## TOTAL PHOSPHORUS

# ONONDAGA LAKE



\*Summer avg., upper waters



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# Green Infrastructure

- Consists of bioretention areas, porous pavers/pavement, rain gardens, rain barrels/rainwater trenches and green roofs. These practices typically capture stormwater and infiltrate it back into the soil before it can enter the combined sewer system.



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# Green Infrastructure Accomplishments



**\$ 83 MILLION**  
**SPENT ON GREEN**



**157 MILLION GAL**  
**CAPTURED BY GREEN**

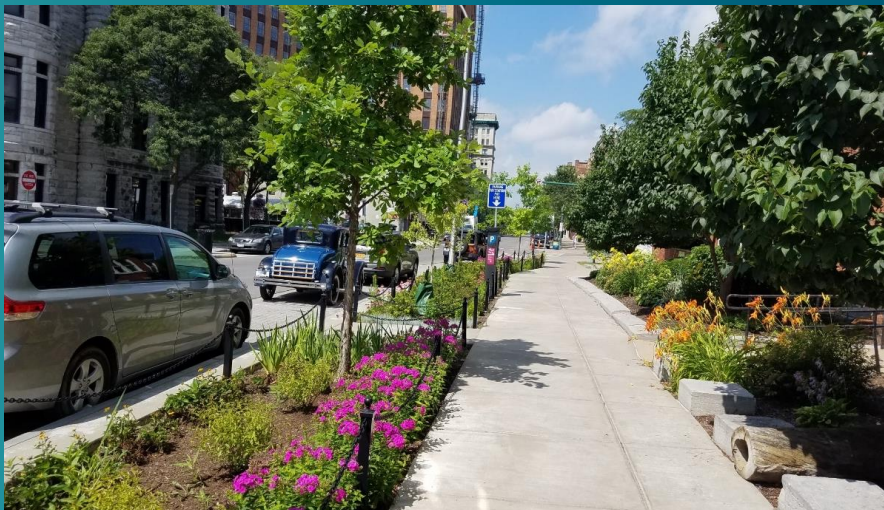


**225 PROJECTS**  
**COMPLETED**



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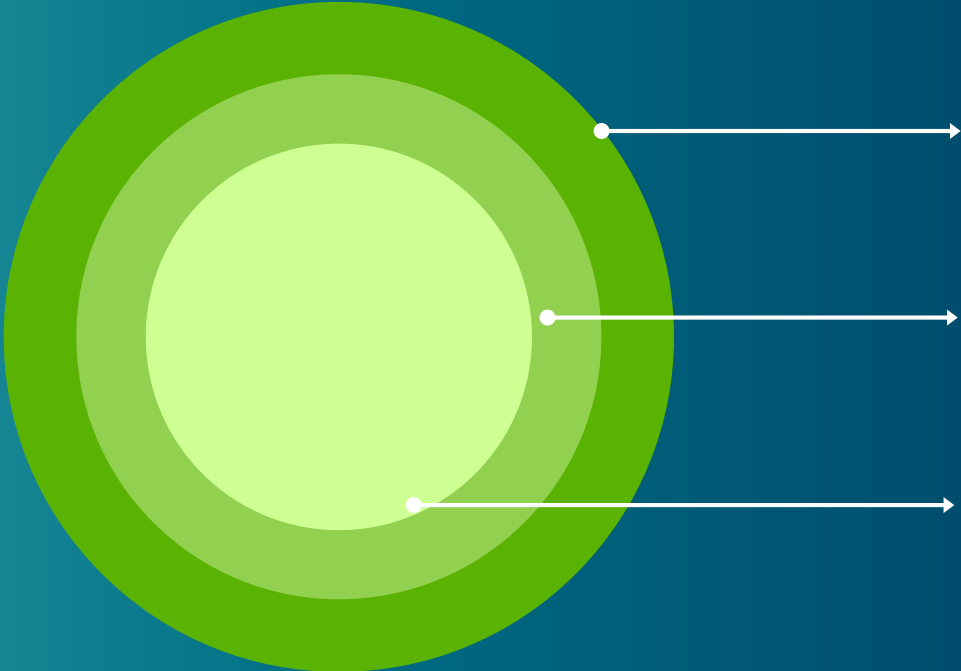
# Project Overview



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# Project Goals



Reduce combined sewer overflow entering Onondaga Creek

Improve water quality in Onondaga Lake

Improve quality of life and business in Downtown Syracuse



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# Project Timeline



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# Project Timeline



Construction Contractor: J.J. Lane Construction Inc.

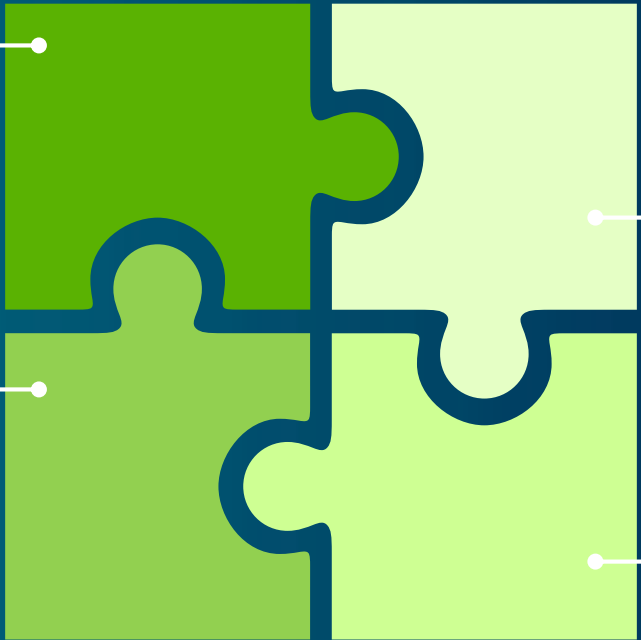


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# Major Project Elements

Replace regulator structure  
near Walton Street bridge

Replace adjacent piping  
and manhole



Raise and widen weir within  
regulator structure

Sidewalk, ADA ramp, &  
asphalt improvements



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# Figures



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# Overall Site

- Work on Walton Street in downtown Syracuse

**KEY**

- Construction area boundary
- - - Temporary construction fenceline
- Security guard post

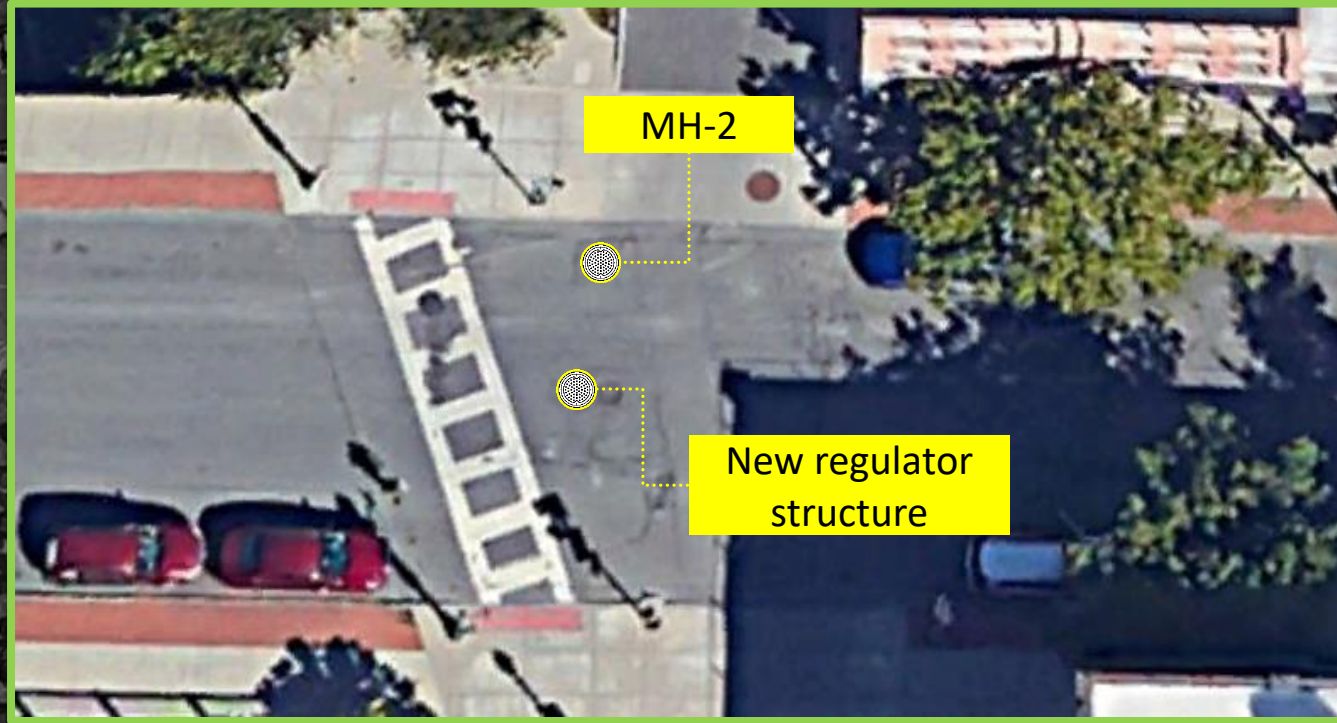


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# New Regulator Structure

- 10-ft diameter
- Completely underground
- New piping to and from new regulator structure
- Also replacing nearby manhole “MH-2”






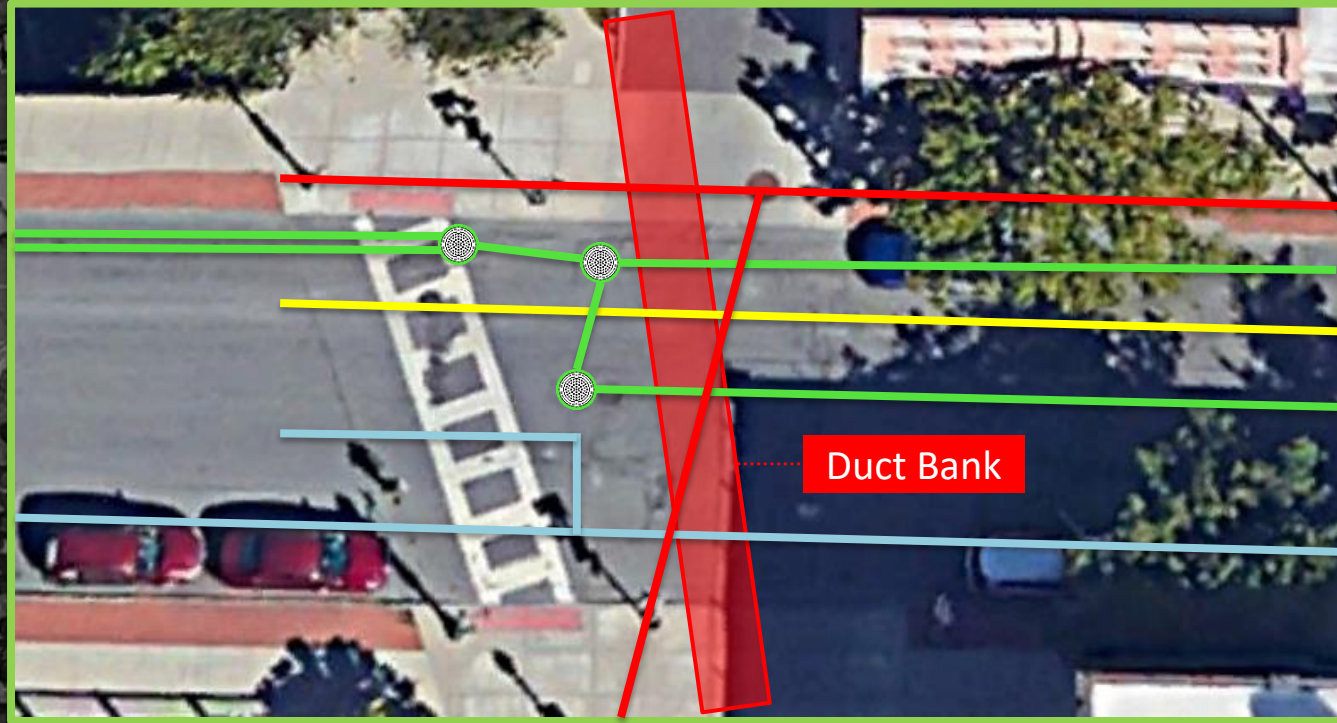
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# Utilities

- National Grid duct bank
- National Grid gas line
- City of Syracuse water line

KEY		
	Electric	
	Comb Sewer	
	Water	
	Gas	



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# Construction Sequence



**4**  
**WEEKS**

- Excavation Protection (Sheeting)
- Bypass Pumping Setup
- Water Line Blowoff Relocation

**8**  
**WEEKS**

- Manhole Demolition
- Helical pile installation
- Manhole and piping install

**5**  
**WEEKS**

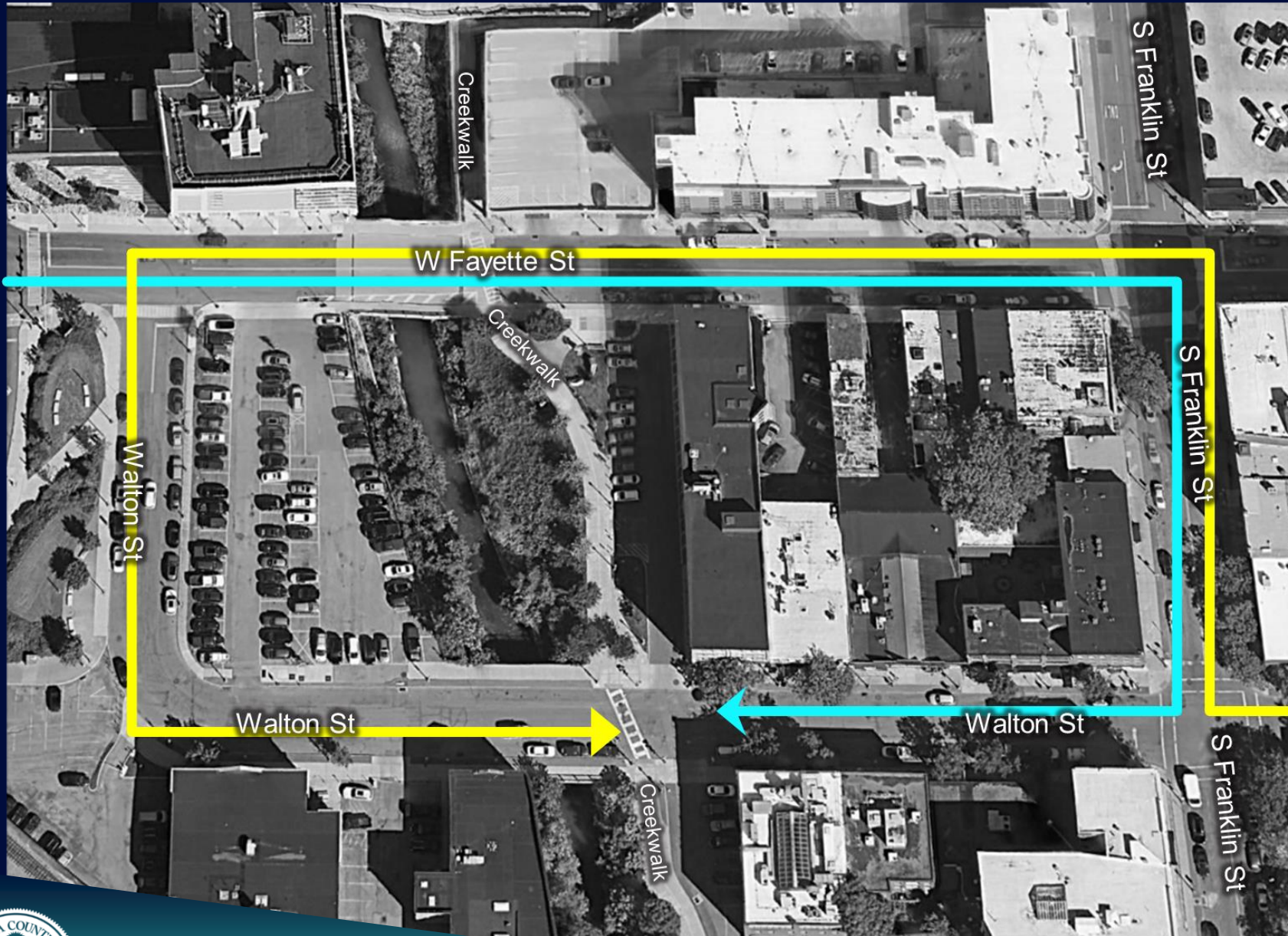
- Backfill and compaction
- Sidewalk, ADA Ramp, and asphalt restoration



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# Full Road Closures

- Anticipated 4 months of closure of the Walton St. Bridge Area
- Detour signs along W Fayette, S Franklin, Walton



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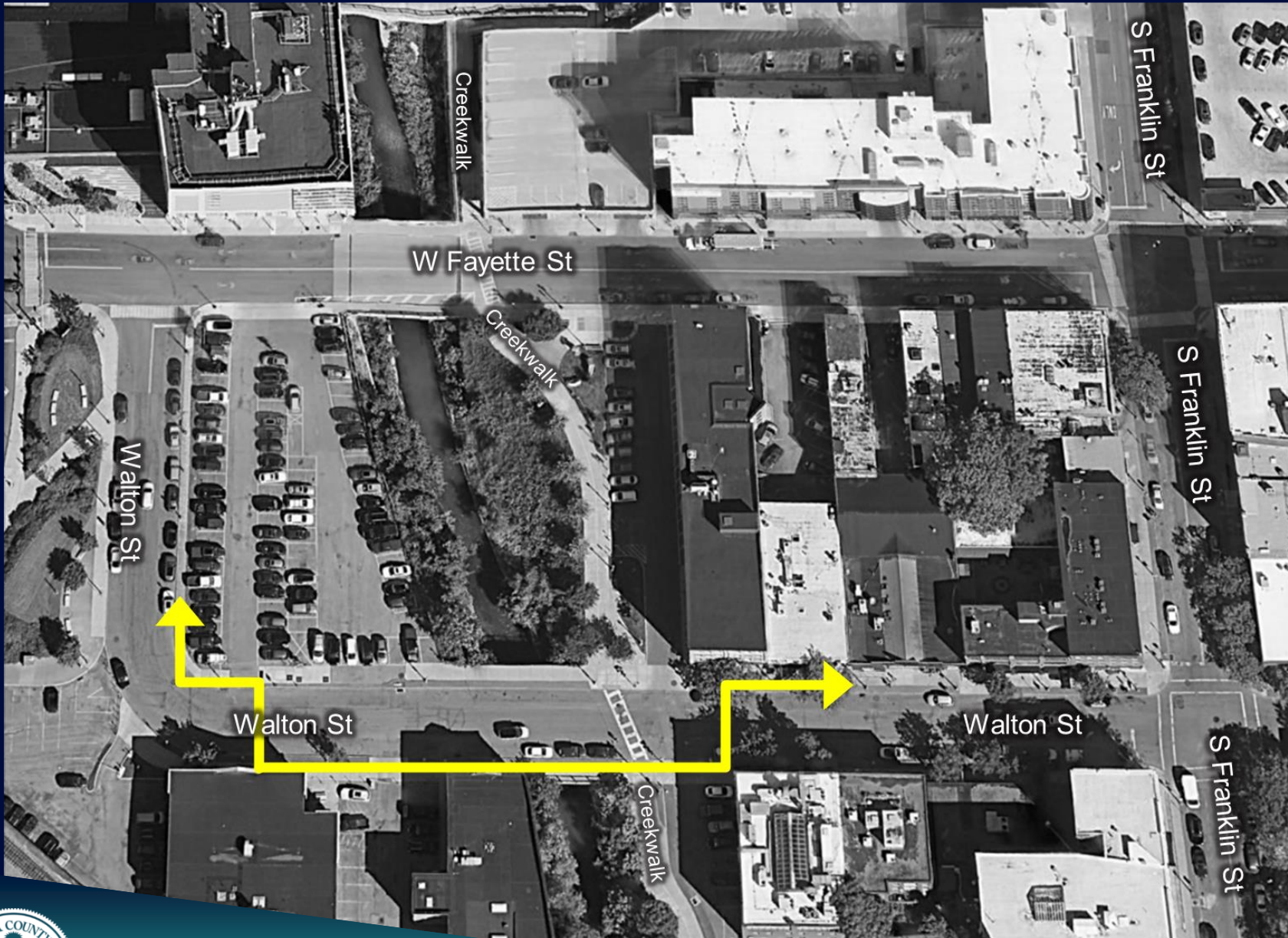
# Creekwalk Closure

- Pedestrian/Bike signs posted on Creekwalk to divert traffic to the west



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# Sidewalk Closures

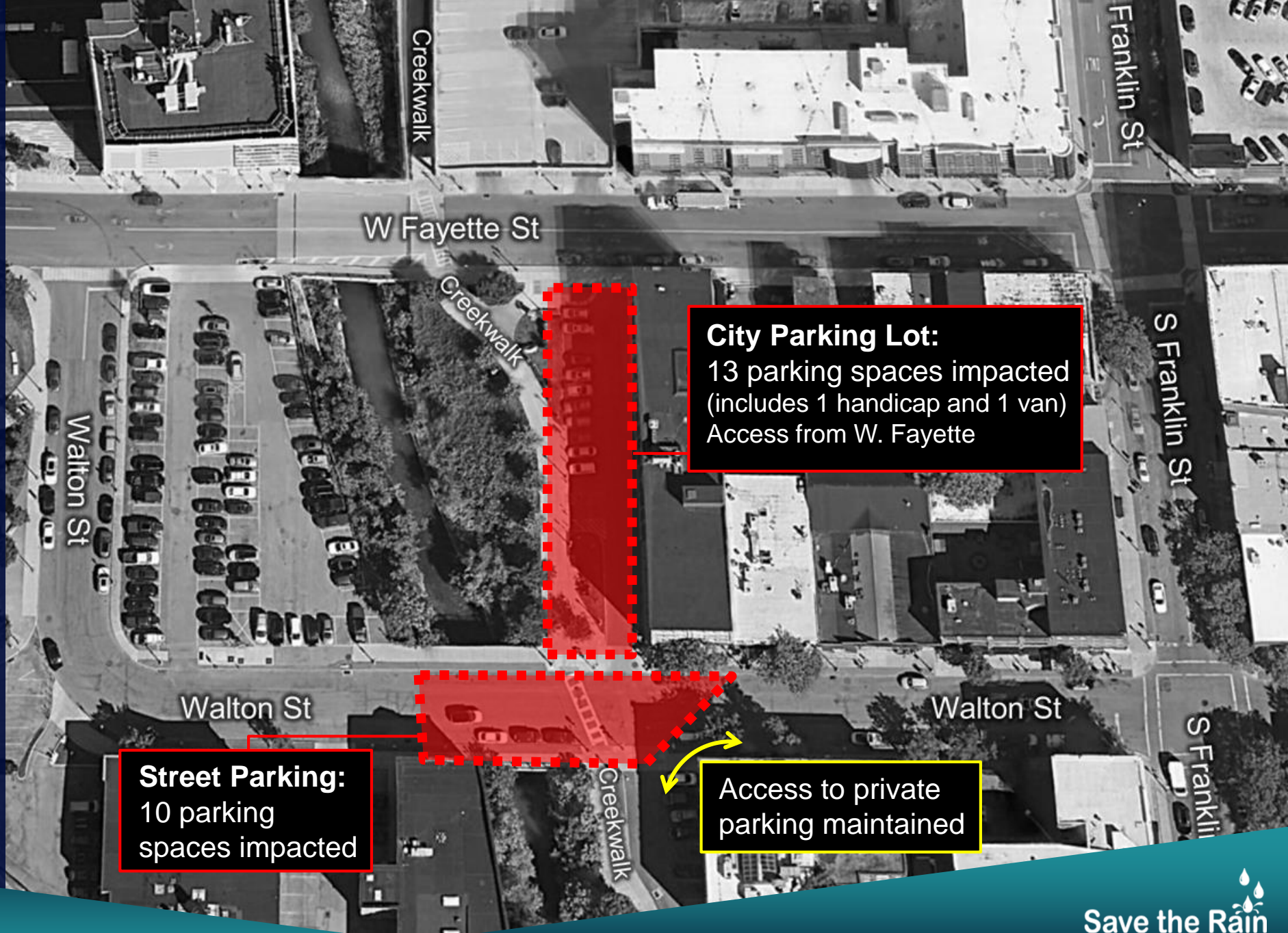
- Pedestrian signs posted on sidewalks to divert traffic to the south of Walton St.



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# Parking Impacts (During full closure)



**City Parking Lot:**  
13 parking spaces impacted  
(includes 1 handicap and 1 van)  
Access from W. Fayette

**Street Parking:**  
10 parking spaces impacted

Access to private parking maintained



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# Open Discussion



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FOLLOW SAVE THE RAIN



## For more information, contact:

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Save the Rain Program*

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