

# Northeast Ohio Regional Sewer District

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Regional Stormwater Management Program Update

Parma City Council Meeting

August 3, 2020

# Agenda

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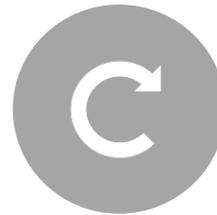
- Regional Stormwater Management Program (RSMP)
  - Completed Projects
  - Stormwater Master Planning
  - Current Projects
- RSMP – City of Parma's Community Cost Share Projects
- Member Community Infrastructure Program
- NEORSD Cost-Savings Programs

# What We Do

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Wastewater  
Treatment Plants



Interceptor Sewer  
Operation and  
Maintenance



Combined Sewer  
Overflow Control



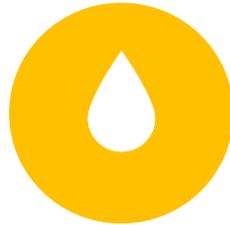
Regional Stormwater  
Management

# Regional Stormwater Management Program

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Stormwater  
Master Planning



Construct  
Stormwater  
Projects



Inspection and  
Maintenance



Credit and Cost-  
Saving Programs





# Why regional management?

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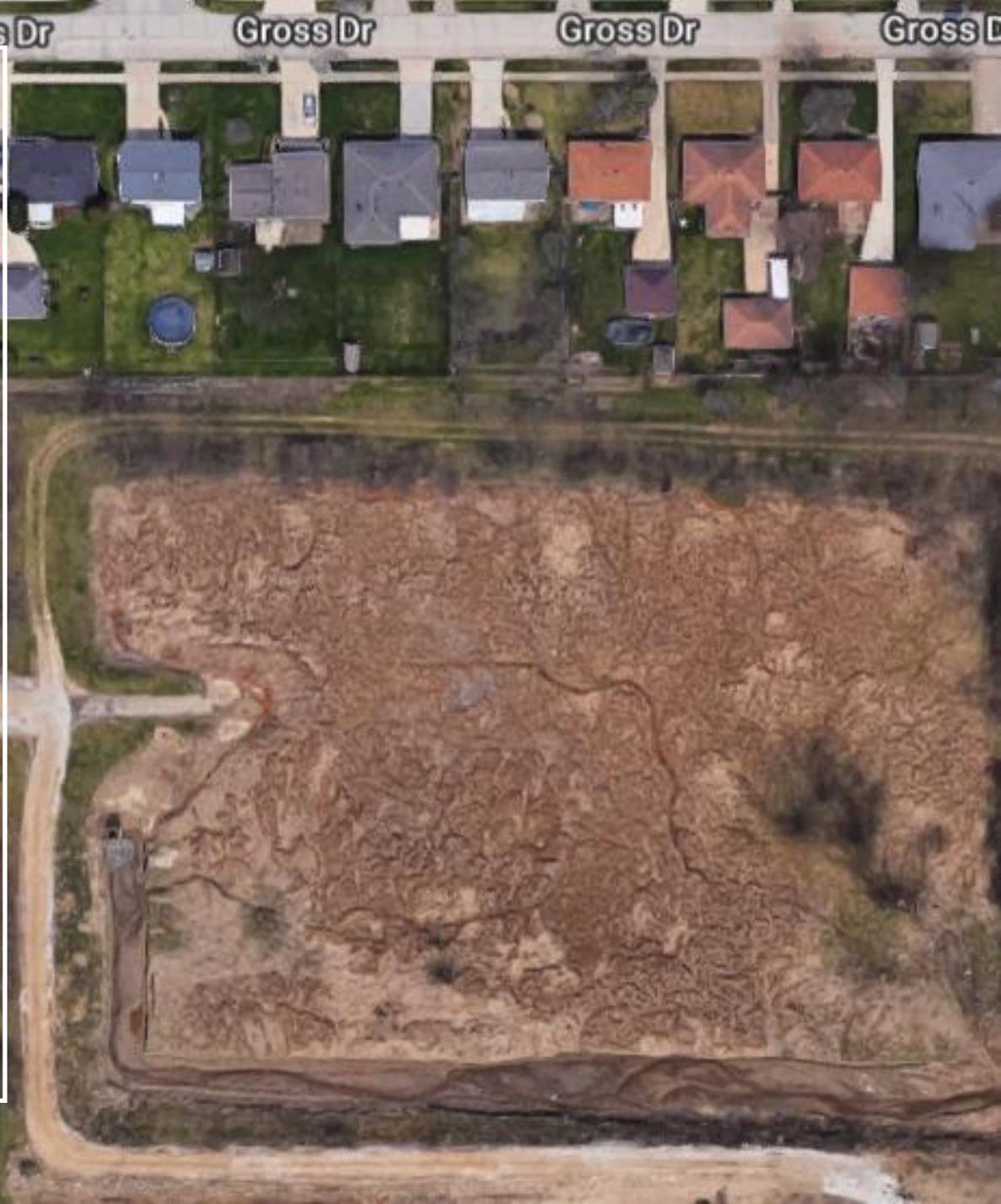
- Watersheds don't follow municipal boundaries
- Cost of projects
- Need for uniform, large scale planning

# Completed Projects

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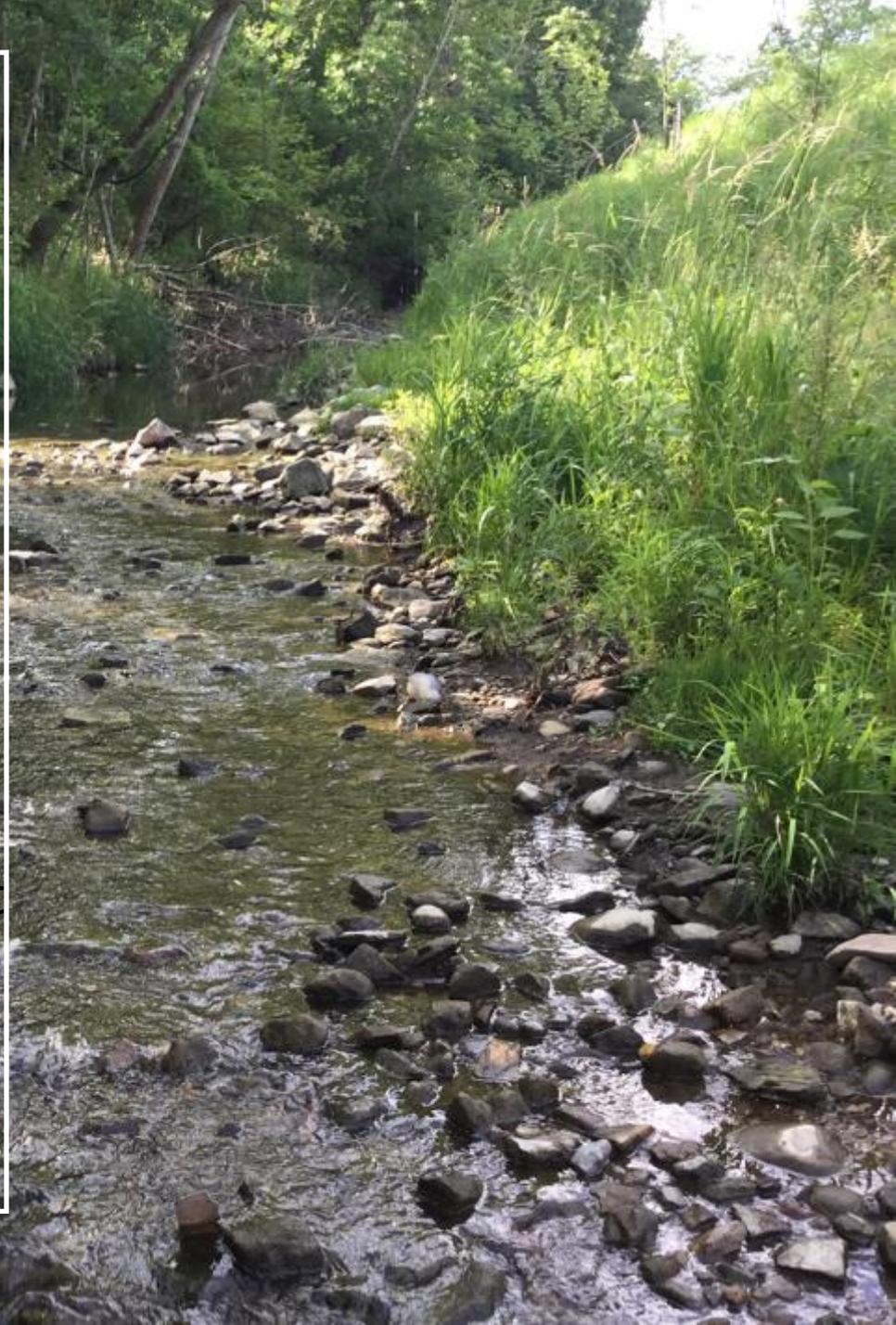
## Bonny Banks Basin (Stormes Drive)

- Dredged 12,000 CY of sediment to restore storage capacity of stormwater dry detention basin (Baldwin Creek)
- Completed in Fall 2018 (in advance of completed Stormwater Master Plan)
- Future work under design to be completed in this area



# Baldwin Creek Streambank Stabilization

- Location: E. Linden Lane, Parma
- Regional Stormwater System streambank stabilization project
- Reduce streambank erosion and repair failing retaining walls, guardrails, sidewalks and protect storm sewer outfalls and underground utilities (gas main)





Before Construction



Before Construction



After Construction



After Construction

# Stormwater Master Planning

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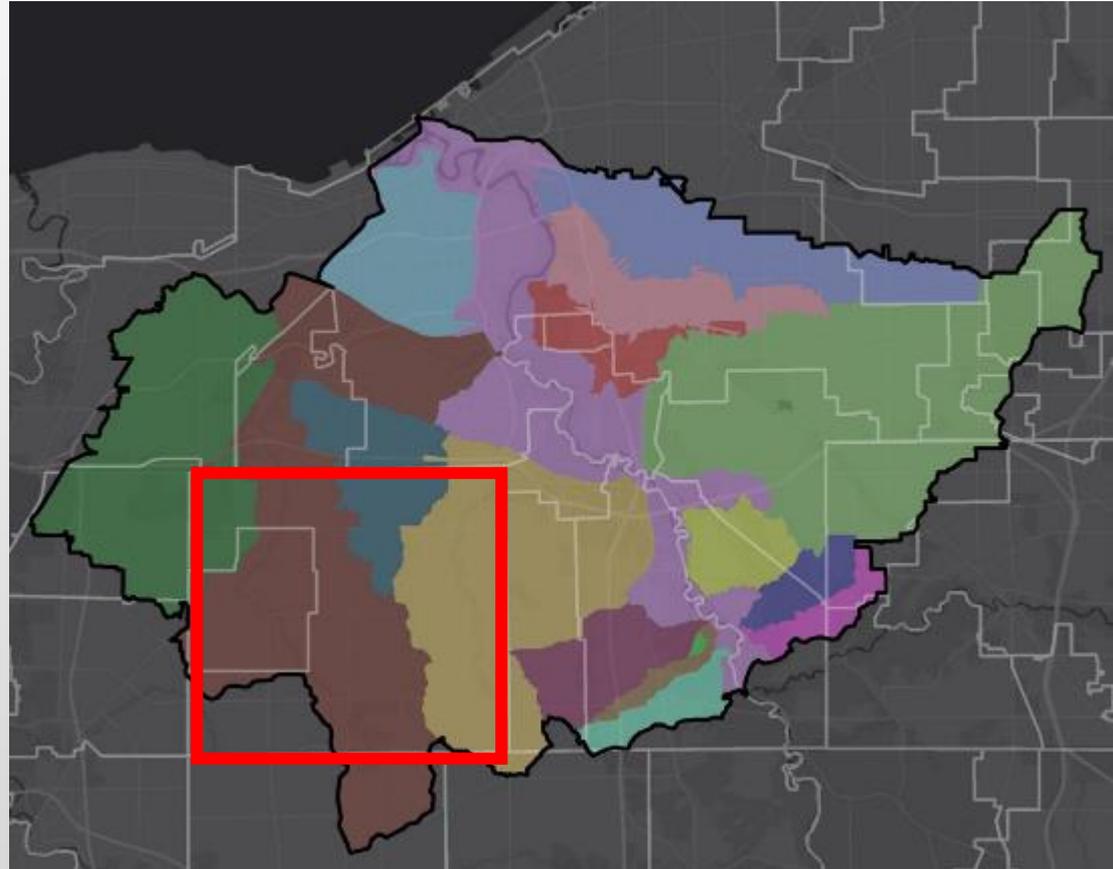
# Cuyahoga River North Stormwater Master Plan Study Area

## Total Study Area

- 99,000 acres
- 11 Subwatersheds
- 23 WAC Member Communities

**Budget: \$8.02 Million**

Finalizing recommendations  
and community report  
documents



To be completed August 2020

# Rocky River Stormwater Master Plan Study Area

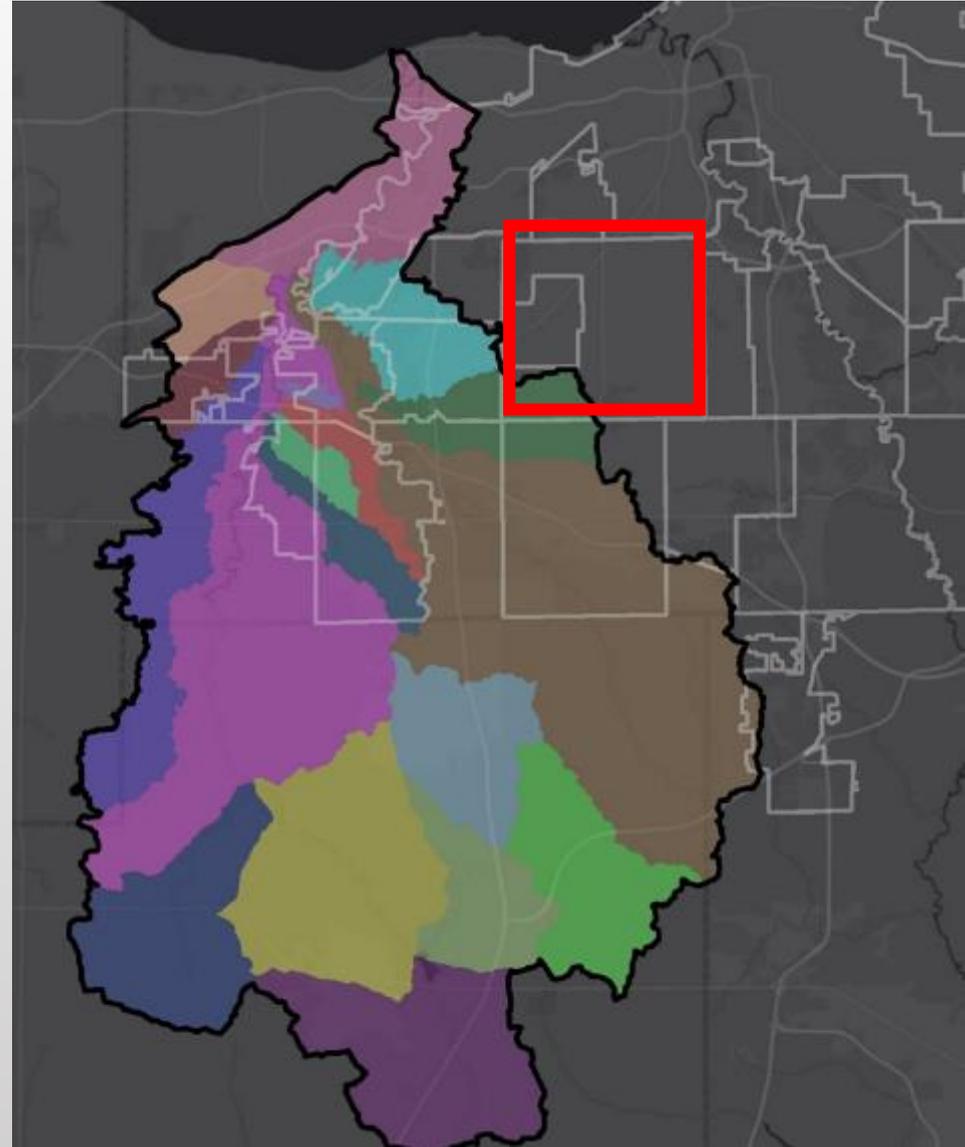
## Total Study Area

- 187,000 acres
- 46,000 acres within SWSA
- 7 Subwatersheds in the SWSA
- 13 WAC Member Communities

**Budget:** \$4.45 Million

Finalizing recommendations and  
community report documents

**To be Completed September  
2020**



# Current and Upcoming Projects

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# Upcoming RSMP projects in City of Parma

## West Creek Bank Stabilization by Sandpiper Drive

- Regional Stormwater System streambank failure
- Construction summer 2020

## Big Creek by Ridge Road Stabilization Project

- Flooding, streambank erosion and stream velocity mitigation
- Pre-design started July 2020, full designs will continue through 2021

## Upper Ridgewood Lake (Big Creek)

- Flood mitigation through lake modifications and rehabilitation
- Pre-design starting in 2020

## Big Creek Flood Reduction near Sprague Road

- Intercommunity issue on the border with North Royalton
- Design approaching 50% complete, design scheduled for completion in 2020

# Upcoming RSMP projects in City of Parma

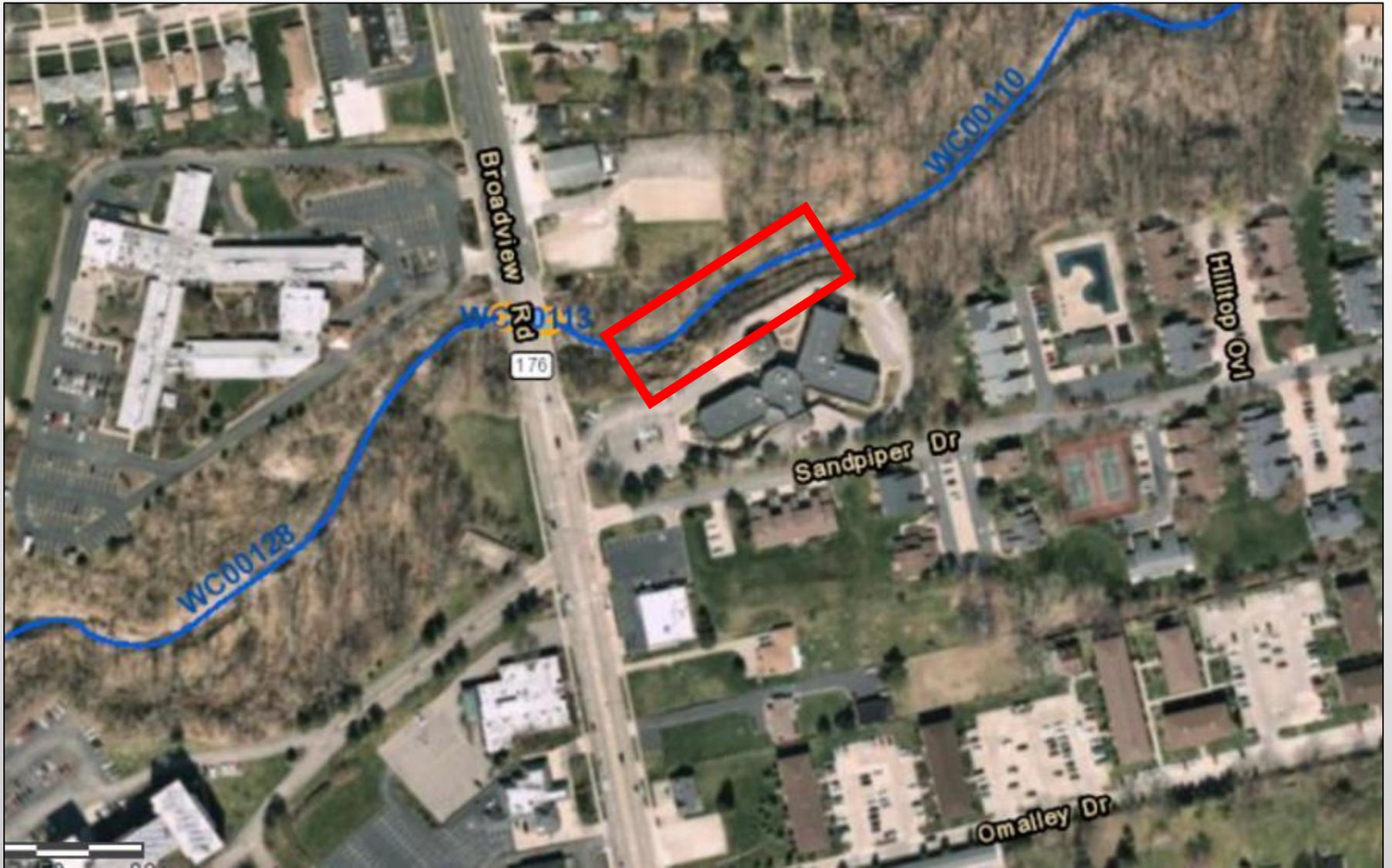
## Baldwin Creek - W. Pleasant Valley Road and York Road area

- Early conversations with property owners to acquire land to construct a regional stormwater detention facility to increase stormwater storage in the area and reduce flooding
- Field investigations on-going

## Stormes Drive relief culvert on Baldwin Creek

- Mitigate flooding on Stormes Drive
- Pre-design for relief culvert starting in late 2020

# West Creek Bank Stabilization by Sandpiper Drive



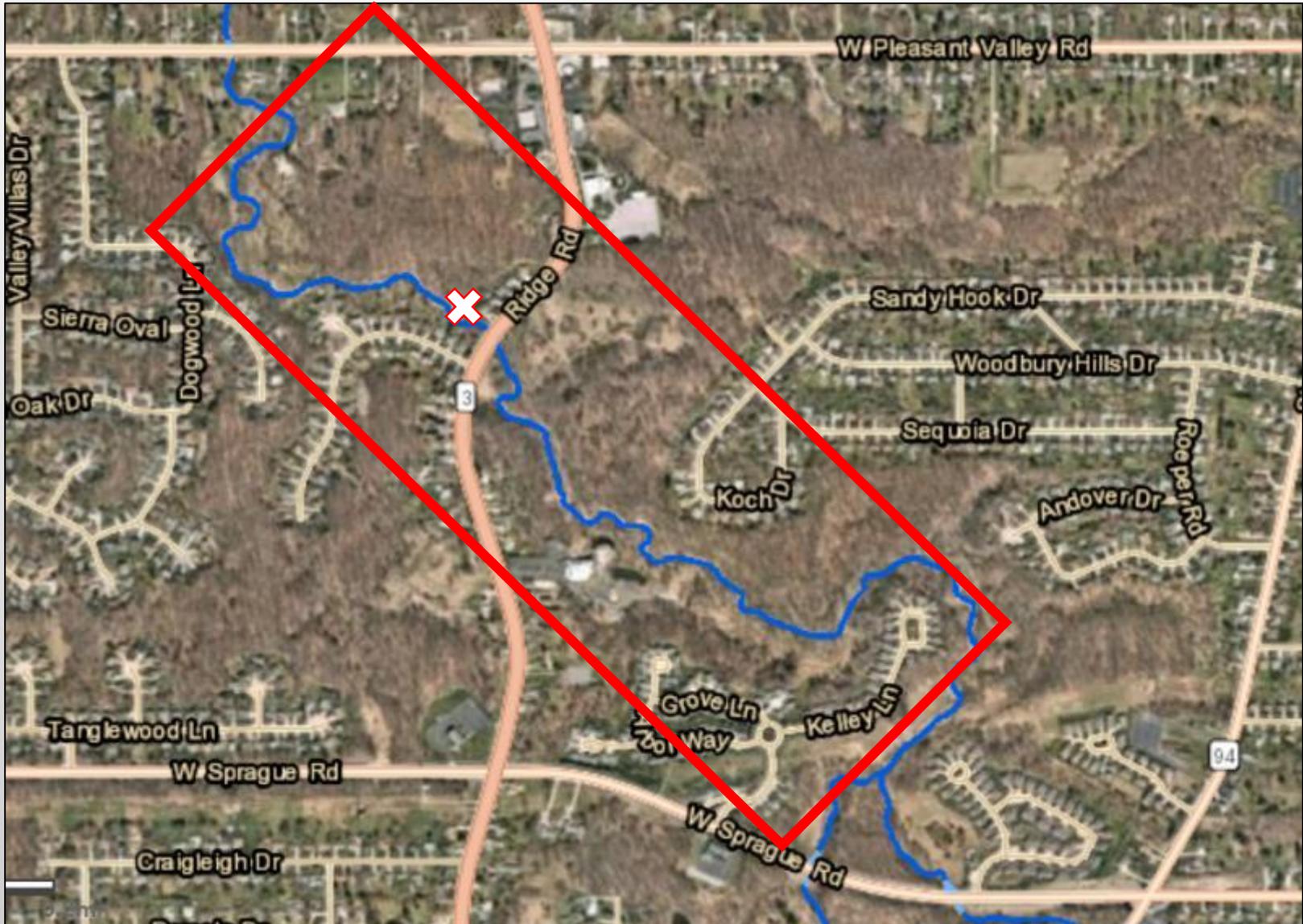
# West Creek Bank Stabilization by Sandpiper Drive



West Creek

Parma Care Nursing Home

# Big Creek Stream Restoration by Ridge Road



# Big Creek Stream Restoration by Ridge Road

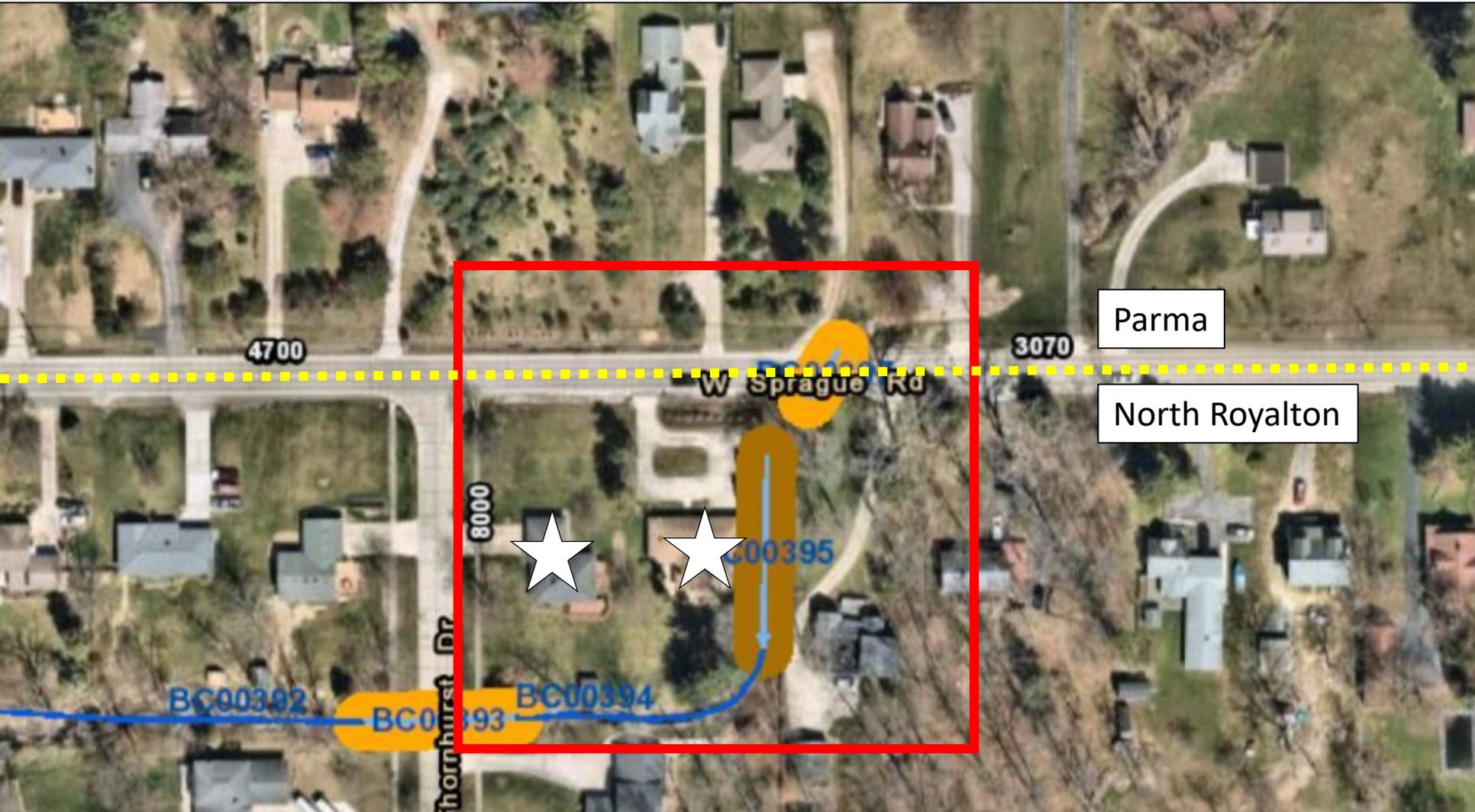


Ridge Road is to the right, picture is facing north

# Upper Ridgewood Lake (on Big Creek)



# Big Creek Flood Reduction near Sprague Road

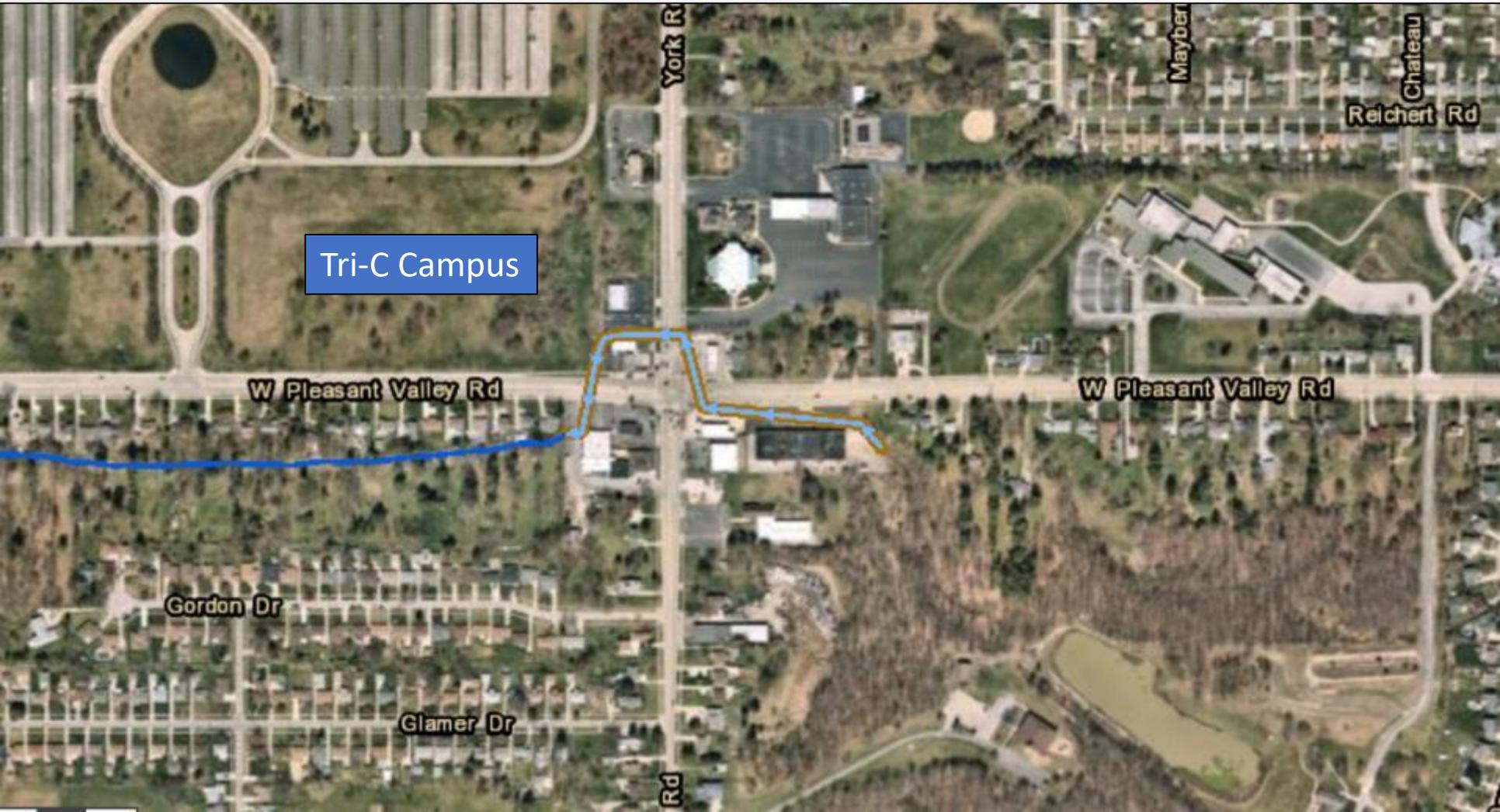


# Big Creek Flood Reduction near Sprague Road

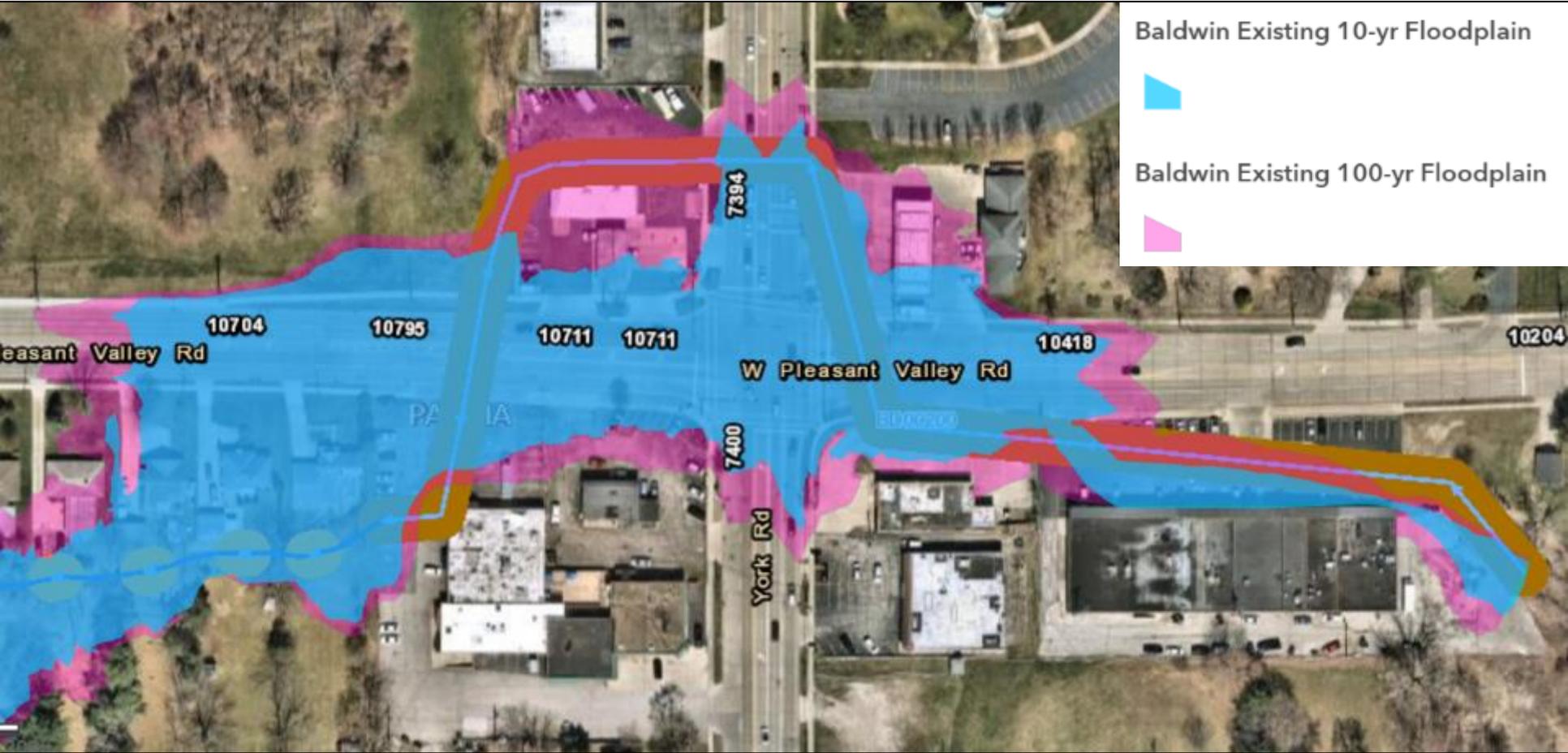


Picture is facing south, towards North Royalton. Vehicle is on Sprague Road.

# Flood Mitigation at W. Pleasant Valley and York Roads on Baldwin Creek



# Flood Mitigation at W. Pleasant Valley and York Roads on Baldwin Creek



# Relief Culvert by Stormes Drive on Baldwin Creek



# Local Efforts: Community Cost Share in Parma 2018-2020

- \$130,000- Baldwin Creek Project, headwall repair
- \$300,000- Orchard Park culvert and headwall repair
- \$245,000- South Canterbury culvert repair
- \$320,518- Stormwater equipment (\$1M agreement)
- \$750,000- Catch basin repair and replacement
- \$127,500- Storm Drainage on Lourdes Drive
- \$49,500- West Creek Restoration
- \$90,000- Stormwater Improvements on Hickory Hill Lane

## **Total:**

\$2,012,518 spent

on community stormwater infrastructure



# Member Community Infrastructure Program

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NEORSD grant funding for local sewer repairs and projects.

Targeted at reducing basement backups.

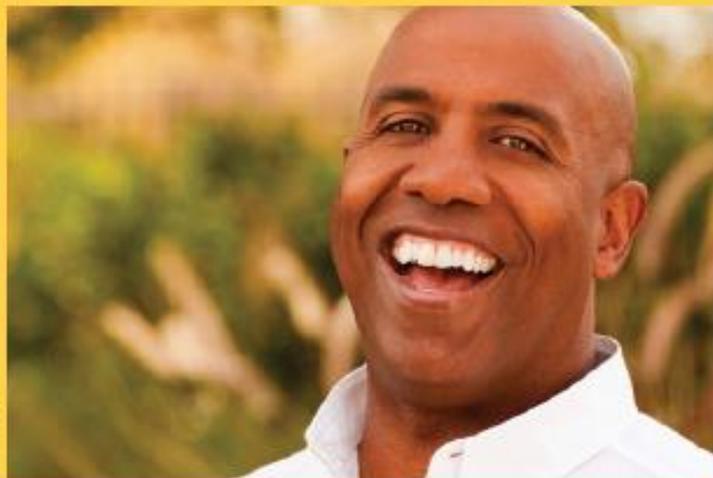
Parma has obtained these NEORSD grants in 2017, 2018, 2019, and 2020.

Total of \$1,912,043 in funding over four years.

\$15M available for NEORSD 2021 grant awards.

Parma applied for several project areas.

# ***You may be eligible for a lower utility bill.***



Sewer rate cost-saving programs for customers who need them most.

***neorsd.org/save*** or ***(216) 881-8247***



**Northeast Ohio  
Regional Sewer District**

# Questions?

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***Customer Service line: (216) 881-8247***