



SHOAL CREEK TRUNK SEWER IMPROVEMENT PROJECT

Public Information Open House

Date: November 14, 2023
November 16, 2023

Project Email : shoalcreektrunksewer@dekalbcountyga.gov

Project Website : [Shoal Creek Trunk Sewer Improvement](#)

DWM Project Hotline : 1-800-986-1108 (M.-F. 8.30 a.m. – 5 p.m.)



Agenda



Reasons for Project

- Drivers/Needs
- Problems/Proposed Solutions
- Basis for Shoal Creek Project
- Condition of Existing Trunk Sewers

Scope Overview

- Shoal Creek Scope Background/Overview
- Impact to Private Properties
- Environmental Impact
- Construction Options
- Project Timeline

Communication Plan

- Virtual Meeting Room/Website
- Method of Communication

Shoal Creek Trunk Sewer Improvement Project Background



- DeKalb County - Entered into Modified Consent Decree (MCD) in 2021, Included Specific Projects and Milestones
- The Shoal Creek Trunk Sewer Project – Critical Path
- Completion Milestone Under the Current MCD - December 2027
- Shoal Creek - Part of Capital Improvement Project (CIP)
- Sewer Master Plan - Identified Numerous Trunk Sewers that Require to Carry 2050 Projected Flows

DRIVERS/ NEEDS

Priority Fix List (PFL) Sites

- 13 PFL Sites in this area
- Experiences 34 SSOs Per Year, Spilling Avg. 3.4 Million Gallon Per Year

Excessive I/I
(Inflow/Infiltration)

Aged Infrastructure
(Installed in 1960s)

Growth - Lack of
Capacity

Operational
Efficiencies (Reverse
Slope, Exposed Pipe,
Stream Bank, etc)

Benefits to Our Shared Environment

- ▶ The County understands the connection between a quality sanitary sewer system and a healthy environment.
- ▶ Eliminating sewer spills from the County's rivers and streams is key to improving our aquatic environment
- ▶ The ecological health of our water resources benefits both the environment and our citizens.



Benefits of the Consent Decree



BENEFITS

JOB CREATION

Priority Area Rehab and Trunk Sewer Projects will:

- ▶ Create an estimated 1,891 jobs from 2021 through 2026.

ALLOW GROWTH AND DEVELOPMENT

New Connections

- ▶ Since 2017, there have been 1,551 requests to connect to the sewer system
- ▶ 379 are pending approval
- ▶ These represent delays to new commercial developments.

PLANNED GROWTH

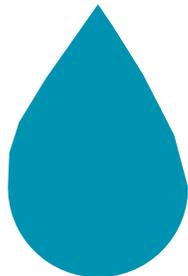
By 2050:

- ▶ Population served to be an estimated 900,000
- ▶ Employment in the County's service area to be approximately 640,000.



SUPPORTING GROWTH & DEVELOPMENT

Sewer connections allow new residents and increased employment



YEAR	SERVICE AREA POPULATION (1)	SERVICE AREA EMPLOYMENT(1)
2020	695,282	514,037
2030	755,525	561,264
2040	832,390	585,634
2050	904,379	637,893
2060	972,697	718,974
2070	1,041,015	773,028

(1) Source: DeKalb County Sewer Master Plan (2020)

History of Capacity Related Sanitary Sewer Overflows (SSOs)

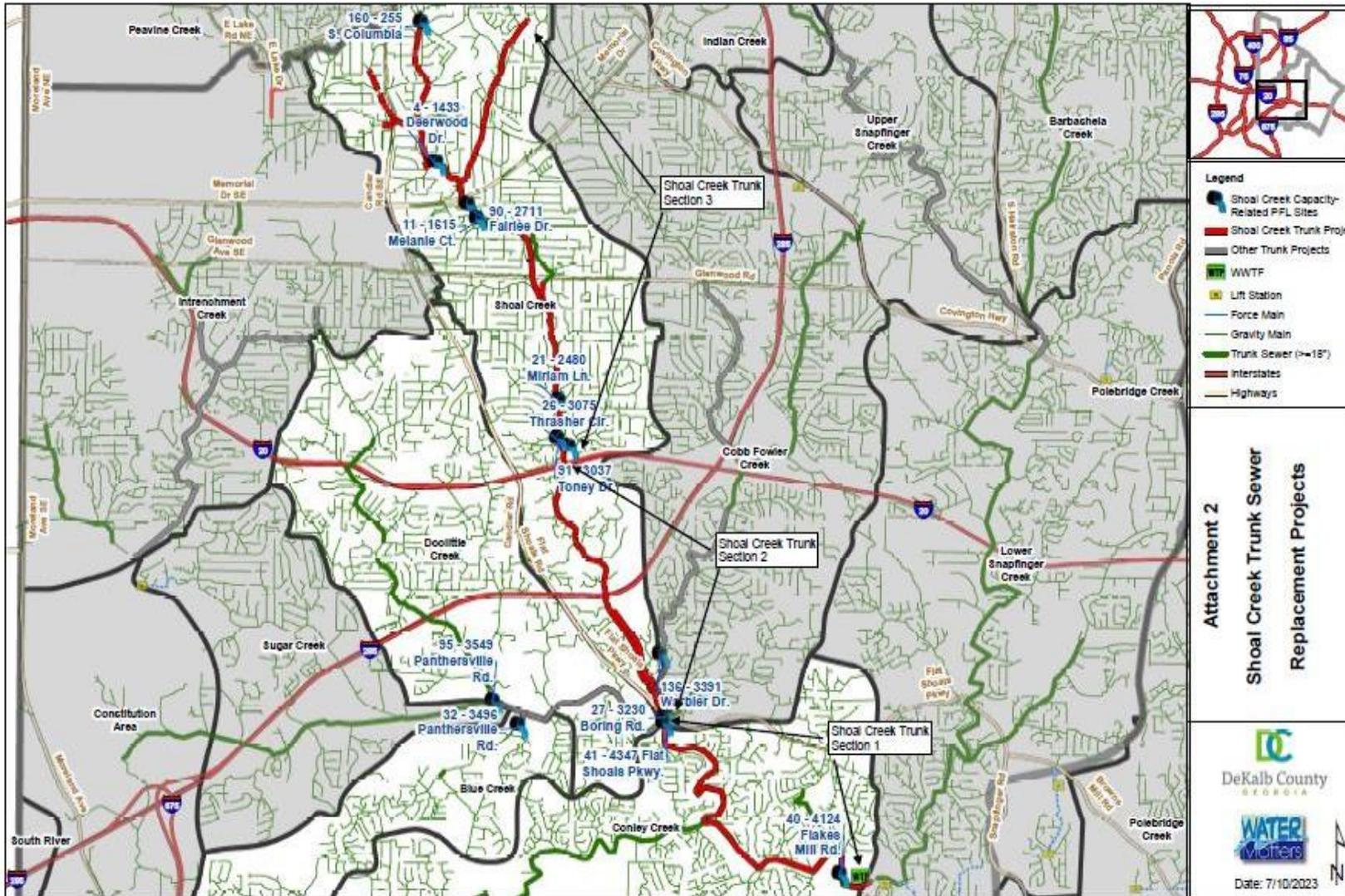


- Shoal Creek associated with 13 Priority Fix List (PFL) Sites as Defined in MCD
- Per MCD – PFL Sites Need Adequately Fixed by Dec 2027
- These PFL Sites – Significant History of Capacity Related SSOs

PFL No.	Address	Total SSOs ⁽¹⁾	Total Estimated SSO Volume
4	DEERWOOD DRIVE	3	121,550
11	MELANIE COURT	31	1,930,800
21	MIRIAM LANE	29	2,020,409
26	THRASHER CIRCLE	29	1,131,953
27	BORING ROAD	18	1,542,090
32	PANTHERSVILLE ROAD	2	12,260
40	FLAKES MILL ROAD	21	6,385,669
41	FLAT SHOALS PARKWAY	7	381,608
90	FAIRLEE DRIVE	11	1,056,907
91	TONEY DRIVE	7	414,280
95	PANTHERSVILLE ROAD	7	1,867,397
136	WARBLER DRIVE	12	2,009,669
160	SOUTH COLUMBIA	8	17,590
Total =		185	18,892,182

(1) - SSO Occurrences since 2017

Map of 13 Priority Fix List (PFL) Sites – Shoal Creek



PFL No.	Address
4	DEERWOOD DRIVE
11	MELANIE COURT
21	MIRIAM LANE
26	THRASHER CIRCLE
27	BORING ROAD
32	PANTHERSVILLE ROAD
40	FLAKES MILL ROAD
41	FLAT SHOALS PARKWAY
90	FAIRLEE DRIVE
91	TONEY DRIVE
95	PANTHERSVILLE ROAD
136	WARBLER DRIVE
160	SOUTH COLUMBIA

Approximate 129,618 LF of Replacement/Upsizing/Rehabilitation was Completed for these PFL Sites To Date

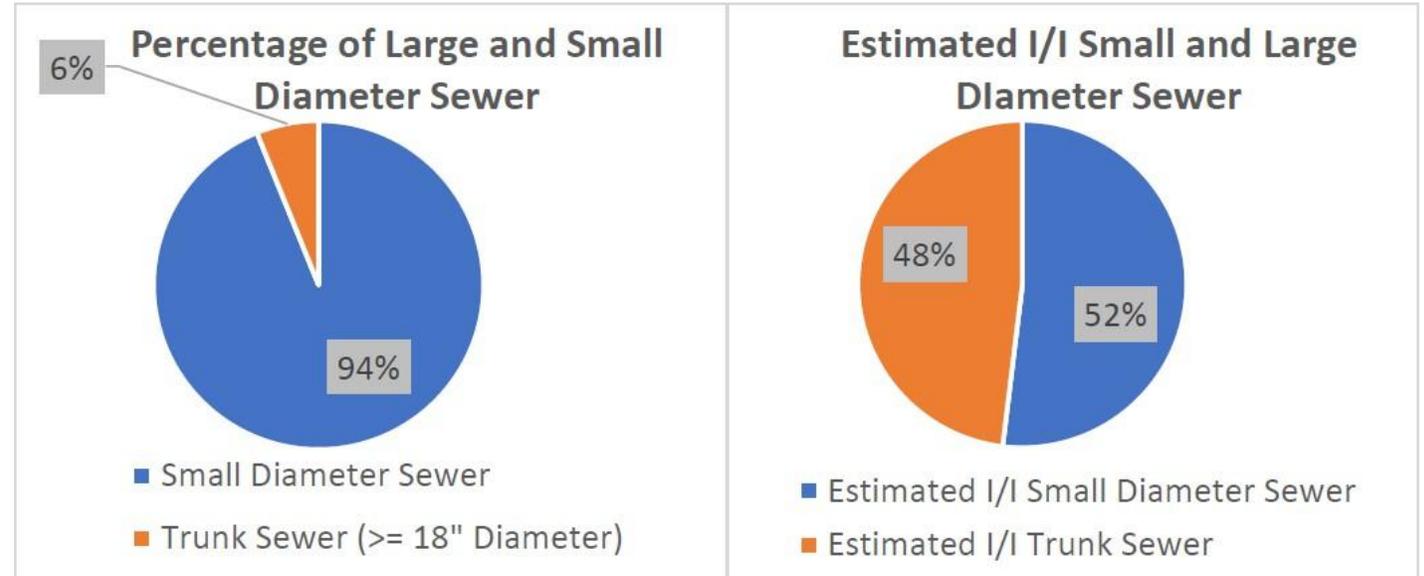


Basis for Shoal Creek Trunk Sewer Improvement Project



Proposed Solutions:

- **Replacement of Sewer** – Most Effective, Time- Sensitive Approach
- **Reduce I/I, Increase System Capacity** for the next 50-75 Years
- **Existing Sewers** – Poor Conditions – Reverse/Flat Grade, Aerial Creek Crossing, Located in Stream Bank/Wetland
- As a **Result of Comprehensive Rehab Pilot Study** – Not Sufficient to Address Capacity Related SSOs in Shoal Creek without Replacing/Upsizing
- **Delaying** will Result in Continued Spills of Similar or Greater Magnitudes

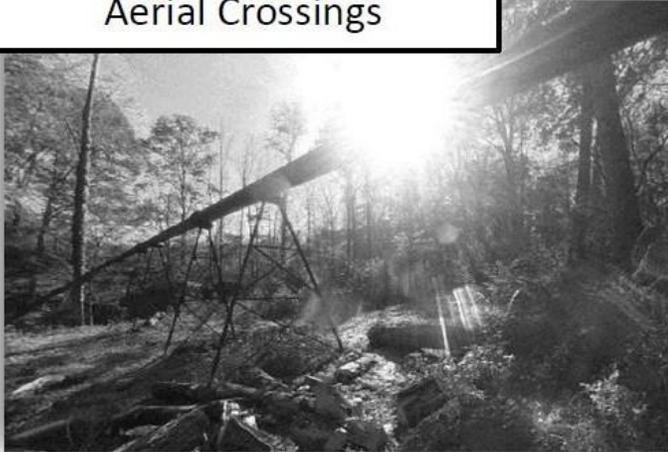


Shoal Creek Trunk Represents Only 6% of Sewer in Shoal Creek Sewershed but Contributes as much as 48% of I/I Within Sewershed, per the Calculation Used in MCD

Conditions of Existing Shoal Creek Trunk



Aerial Crossings



Wetlands



Reverse Slopes

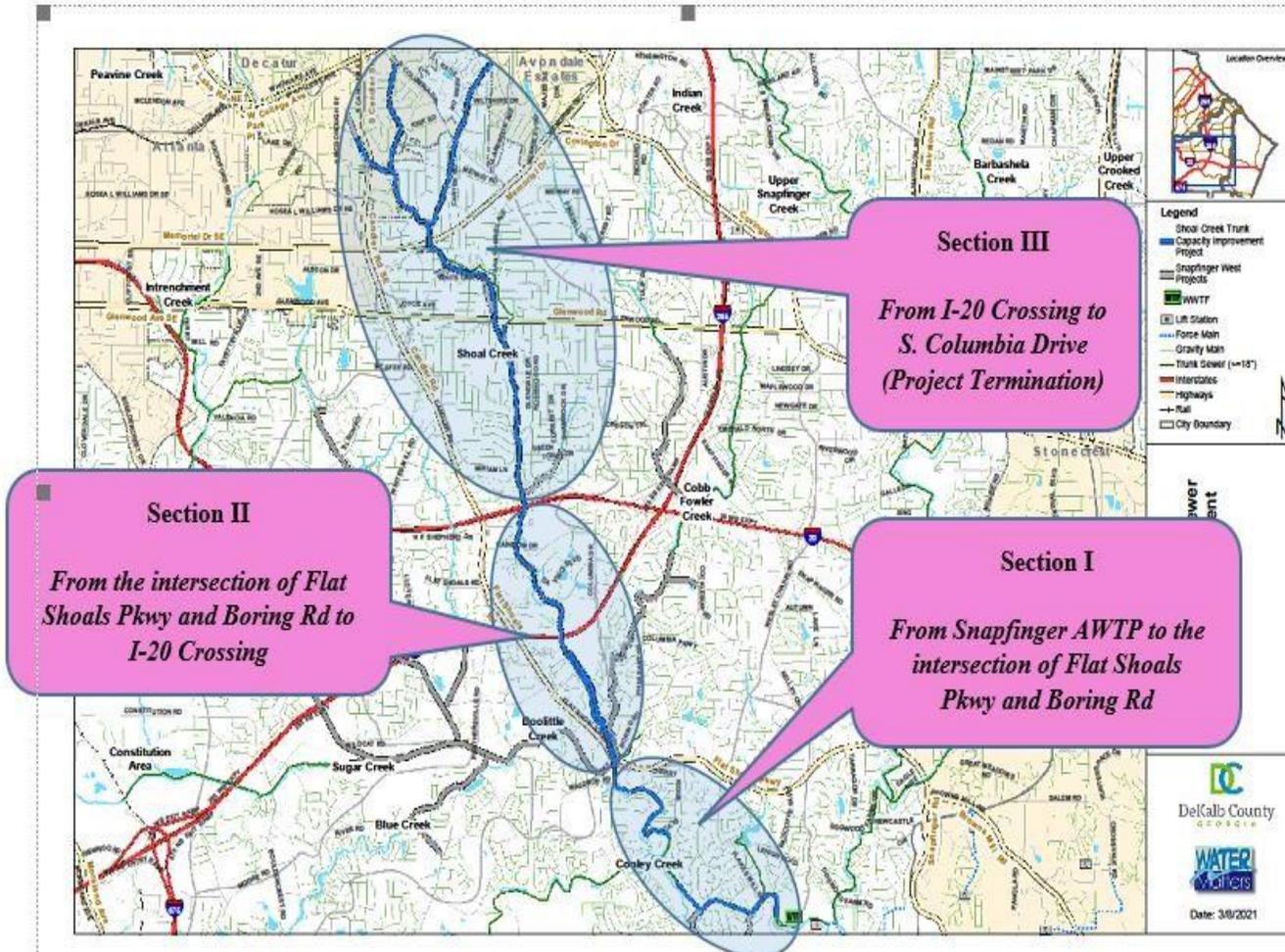


Large Trees on Existing Easement

Manhole in creek bank



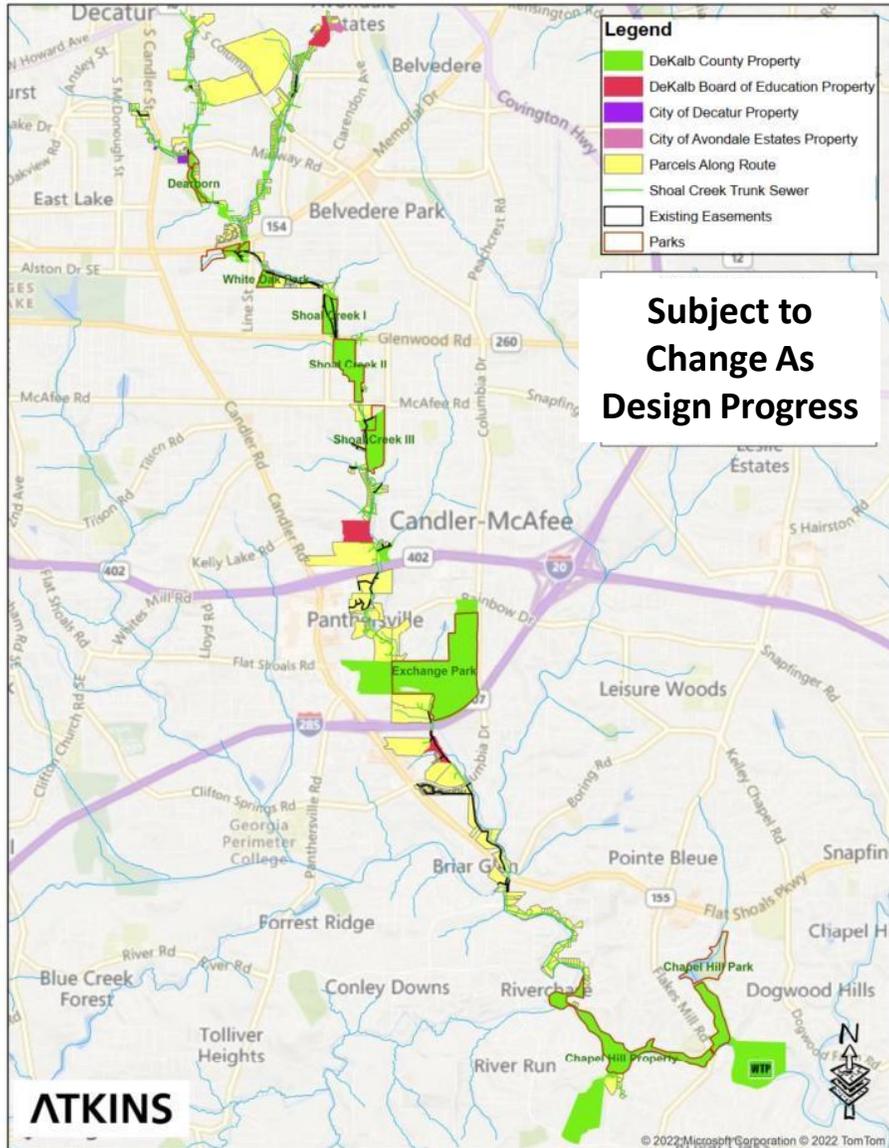
Shoal Creek Trunk Sewer Improvement Scope Overview



*Section 1: The replacement is pending the decision of the Governing Authority

- Total of approximately **70,485 LF (~13.3 miles)**
- Design Engineer: **Atkins**
- Existing size: **8” - 60”**, proposed size: **12” - 72”**
- Consist of 3 Sections:
 - **Section III:** *From I-20 Crossing to S. Columbia Drive*
 - **Section II:** *From the intersection of Flat Shoals Pkwy and Boring Rd to I-20 Crossing*
 - **Section I:** *From Snapfinger AWTP to the intersection of Flat Shoals Pkwy and Boring Rd*
- Two Interstate Crossings (**I-285/I-20**)
- Two Highway Crossings (**Memorial Dr., Glenwood Rd., Flat Shoal Pkwy**)
- Commissioner District **2, 3, 4**
- Super Commissioner District **6, 7**

Shoal Creek Trunk Project Impact on Private Properties



Sections	No. of Parcels*	Existing Easement (10-20 LF)**	DeKalb County Properties***	Jurisdiction
Section 1	91	52	5 DeKalb Properties, Plant	Unincorporated DeKalb
Section 2	36	17	5 DeKalb Properties, 1 Board of Education	Unincorporated DeKalb
Section 3	220	35	22 DeKalb Properties, 3 Board of Education	Unincorporated DeKalb, City of Decatur, City of Avondale Estates
TOTAL	347	104		

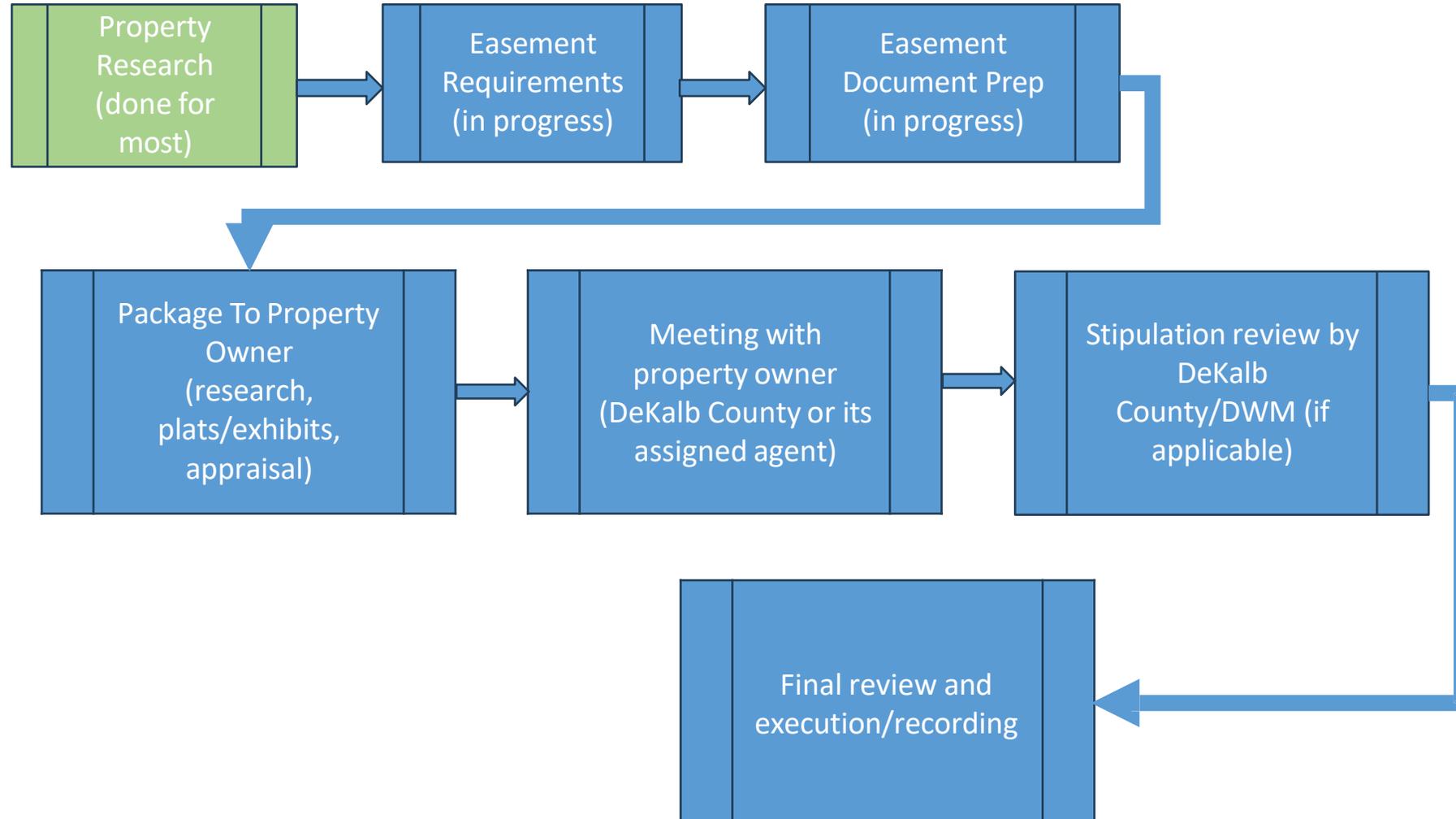
**Approximate No. of Parcels at 60% Design Stage*

***Record of Existing Easement Need Confirmation from Easement Research at Courthouse*

****Easement Plats and Legals are Required for Board of Education Properties Only*

**Section 1: The replacement is pending the decision of the Governing Authority*

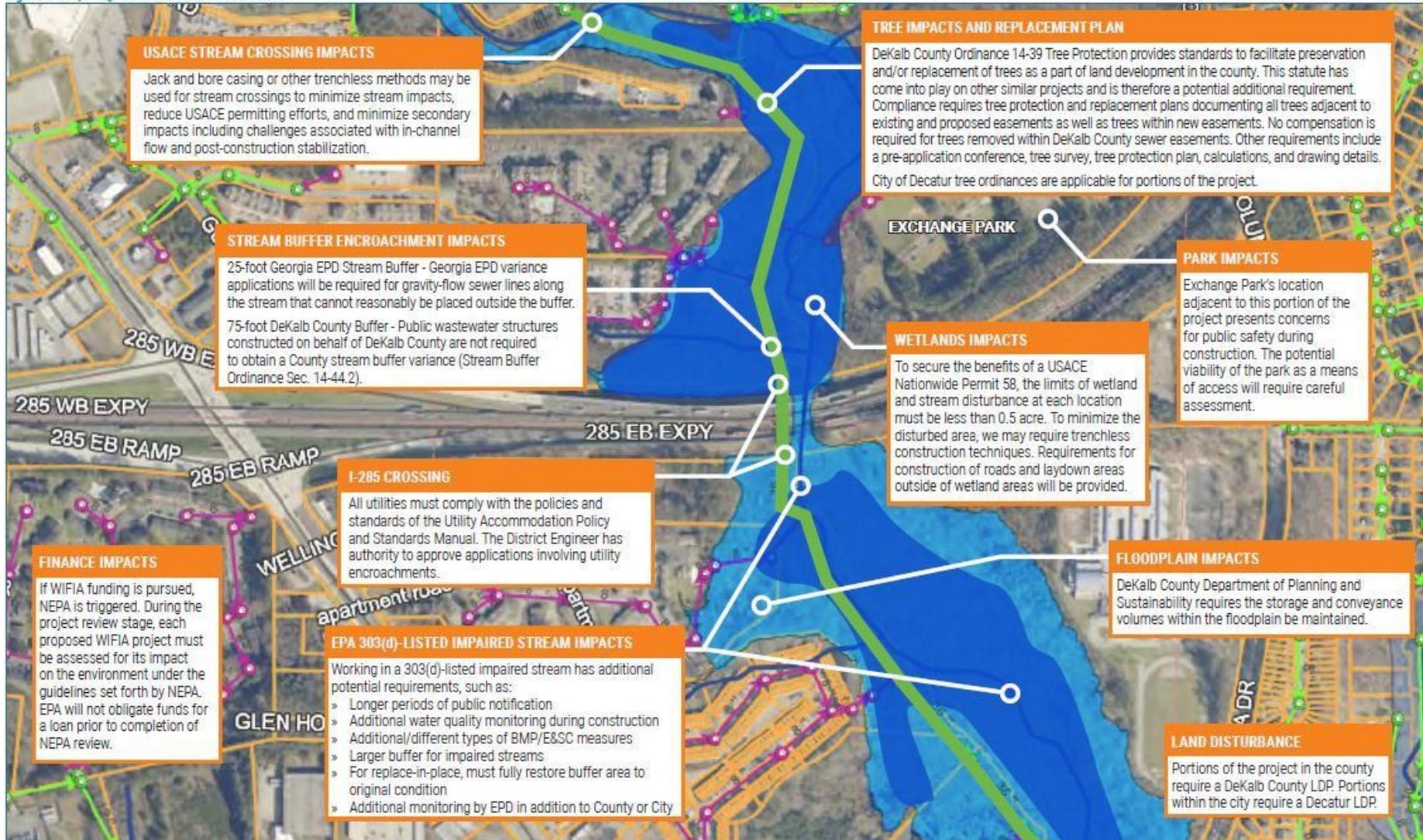
Easement Negotiation Process Workflow



Environmental Impact



Figure 4-9. Key design and construction considerations



List of Permits

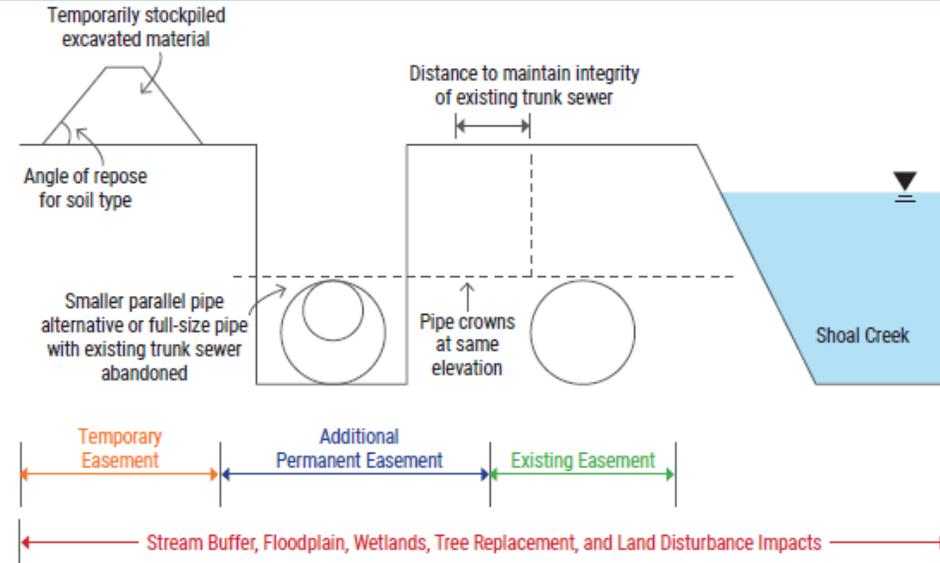
- US Army Corps of Engineers (USACE)
- EPD Stream Buffer Variance
- GDOT
- DeKalb Land Disturbance Permit (LDP)
- City of Decatur LDP
- City of Avondale LDP

Shoal Creek Trunk Sewer Replacement Options

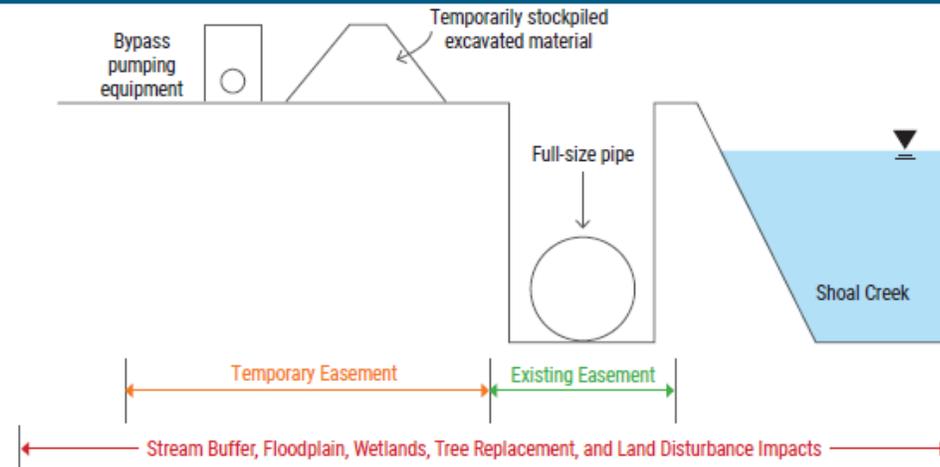


- **Replace Pipe in Same Trench**
- **Parallel Relief Sewer (partial flow)**
- **Relief Sewer (full flow)/Abandon Existing Sewer**
- **Future Rehabilitation of Existing Pipe**

PARALLEL PIPE INSTALLATION (not to scale)



REPLACE IN-PLACE (not to scale)



Shoal Creek Trunk Sewer Replacement Options – 3D Visualization

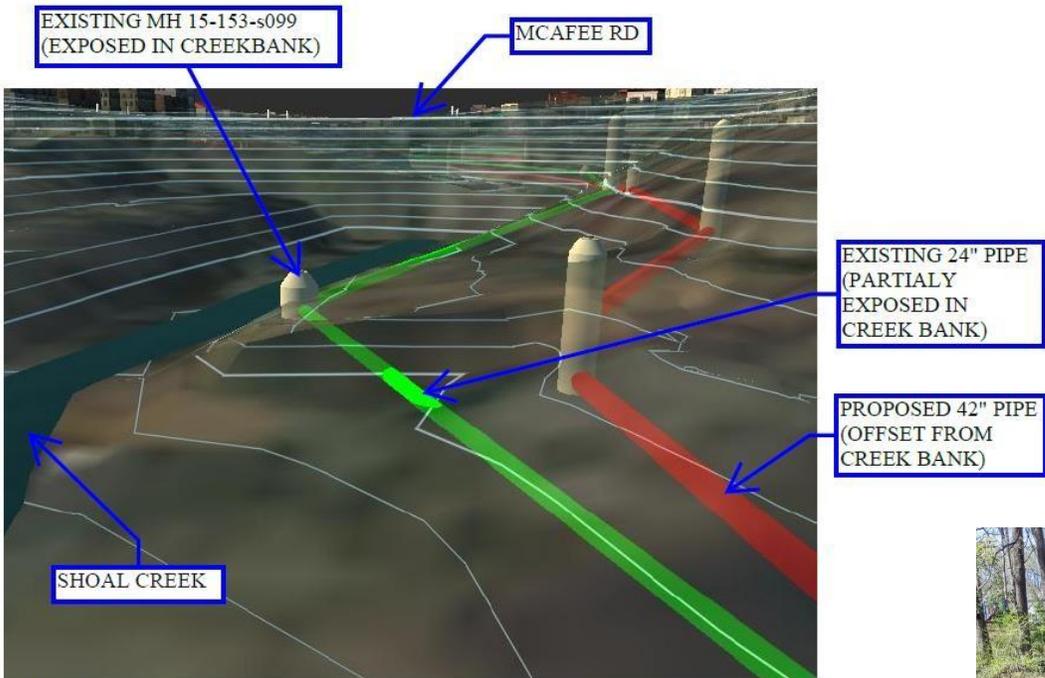


FIGURE 3: INFRAWORKS MODEL SNAPSHOT | 30% DESIGN | SHOAL CREEK SECTION IIIA

NOTE:
EXISTING PIPES SHOWN IN GREEN
PROPOSED PIPES SHOWN IN RED

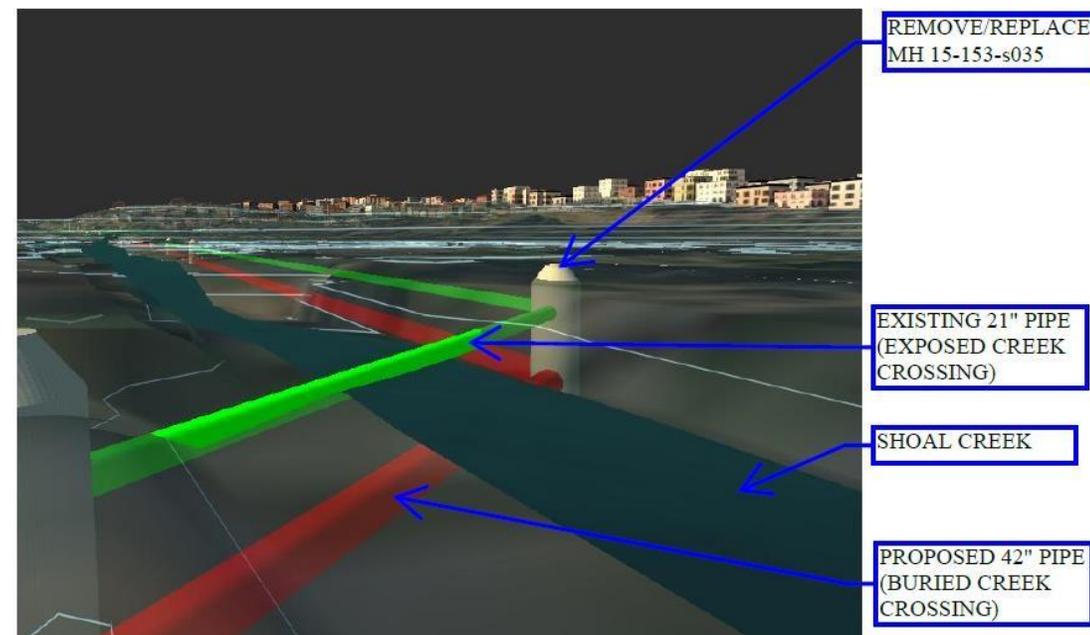


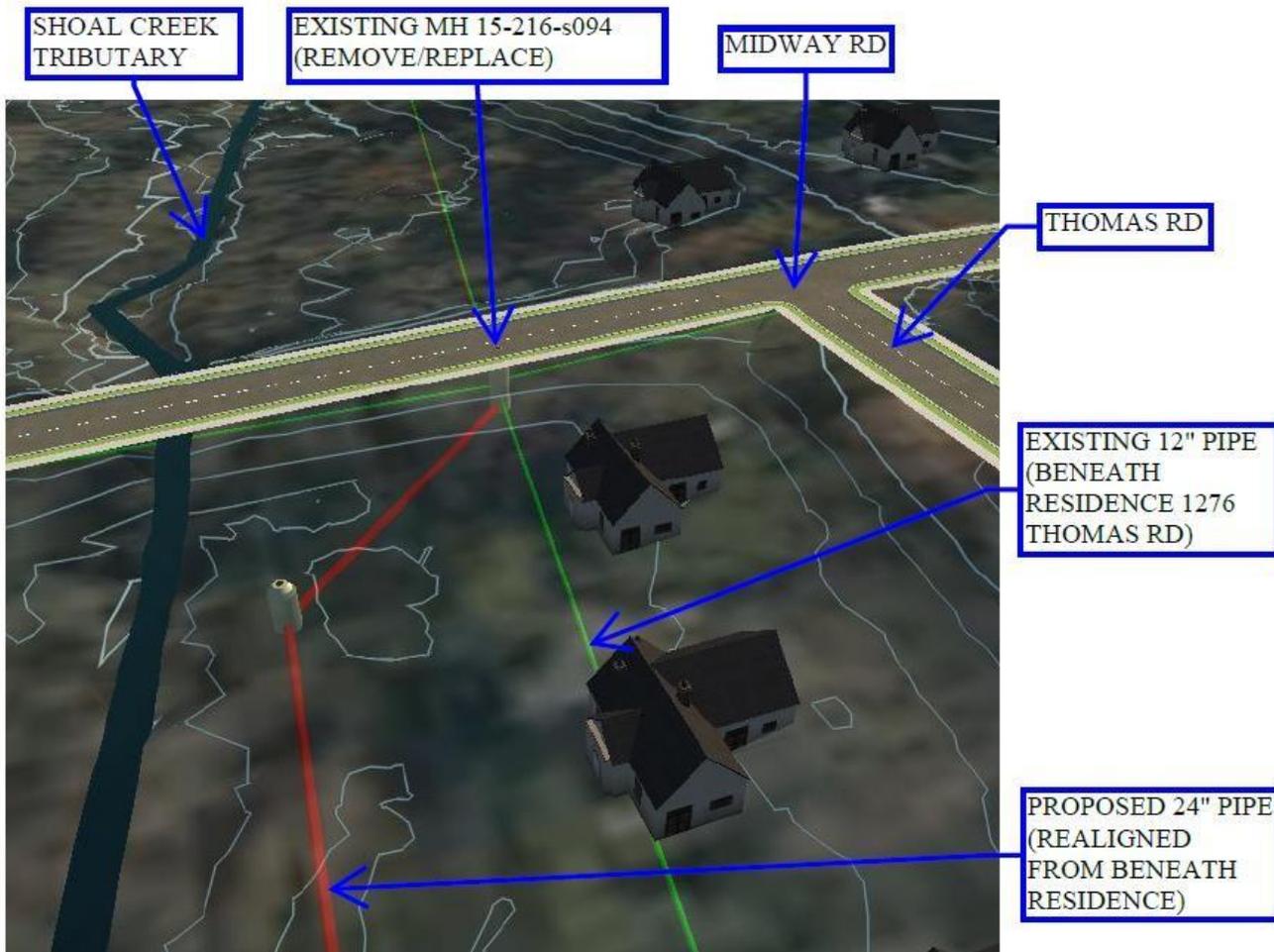
FIGURE 1: INFRAWORKS MODEL SNAPSHOT | 30% DESIGN | SHOAL CREEK SECTION IIIA

NOTE:
EXISTING PIPES SHOWN IN GREEN
PROPOSED PIPES SHOWN IN RED



Example of Relief Sewer/Abandon Existing Sewer – Exposed Pipe/Aerial Crossing

Shoal Creek Trunk Sewer Replacement Options – 3D Visualization

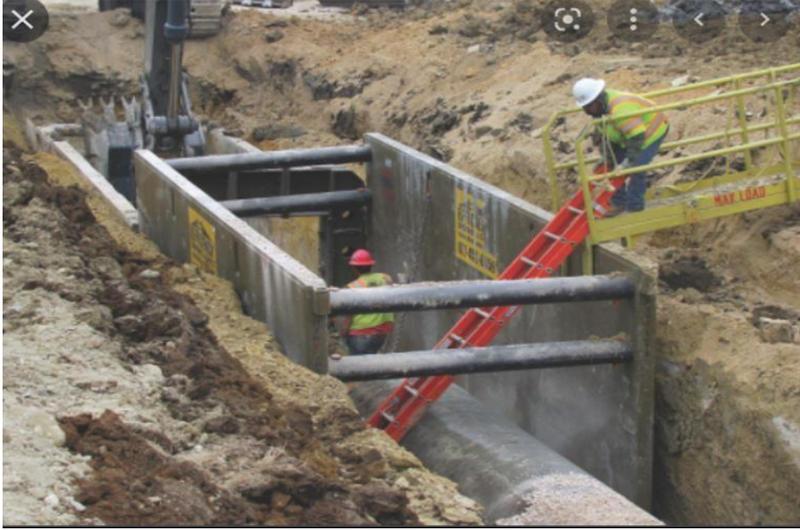


Example of Relief Sewer/Abandon Existing Sewer – Existing Pipe Run Underneath the Residence

FIGURE 4: INFRAWORKS MODEL SNAPSHOT | 30% DESIGN | SHOAL CREEK SECTION IIIB

NOTE:
EXISTING PIPES SHOWN IN GREEN
PROPOSED PIPES SHOWN IN RED

Method of Construction



**Open Trench Excavation –
Majority of Shoal Creek
Trunk Upsize**

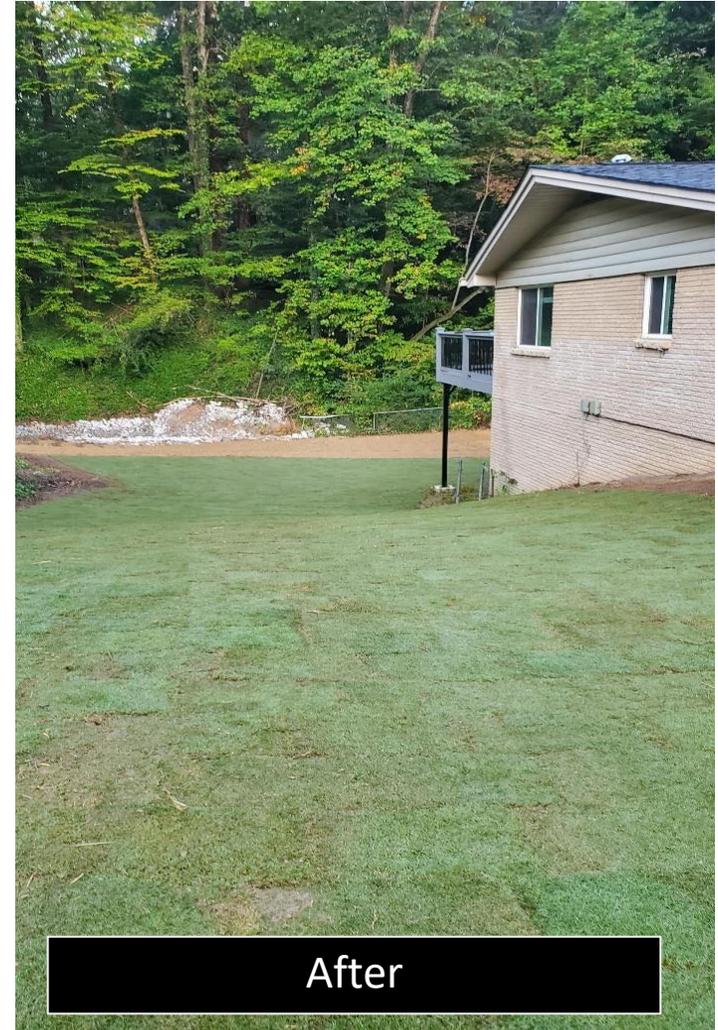


**Jack and Bore and Micro
Tunneling Under Major
Highway/Interstate/GDOT
Crossing**

Site Restoration



Restore In Kind



Shoal Creek Trunk Sewer Improvement Project Timeline



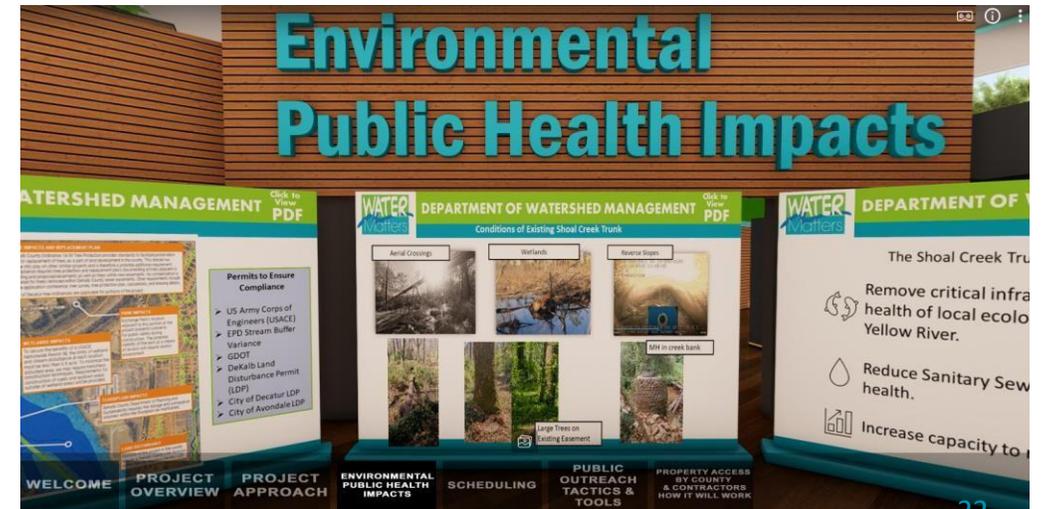
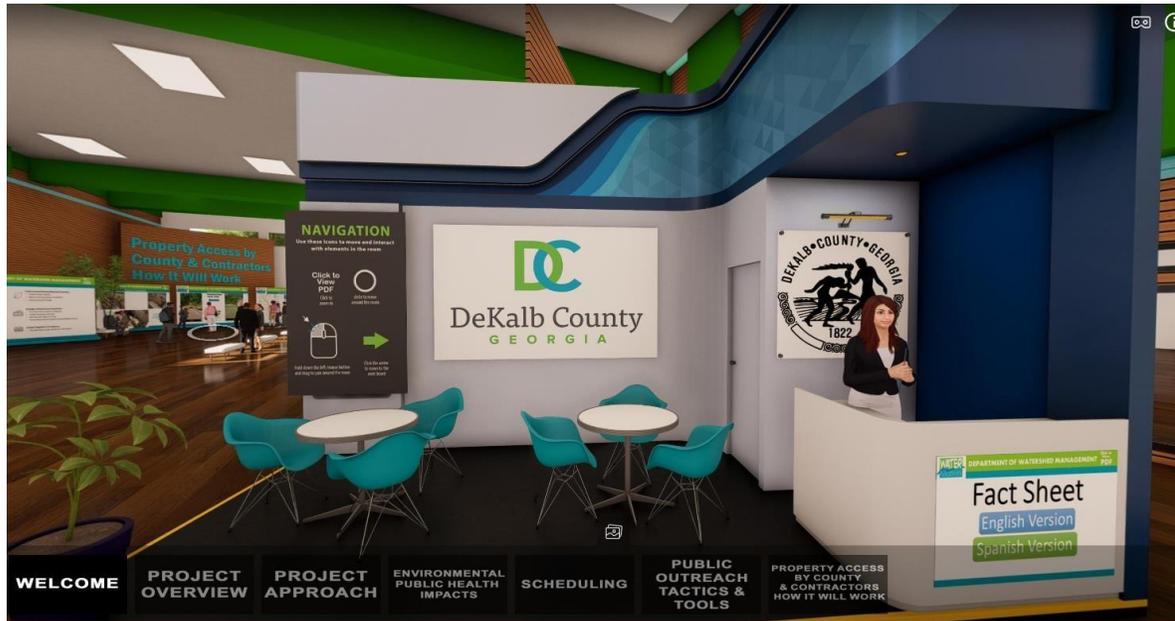
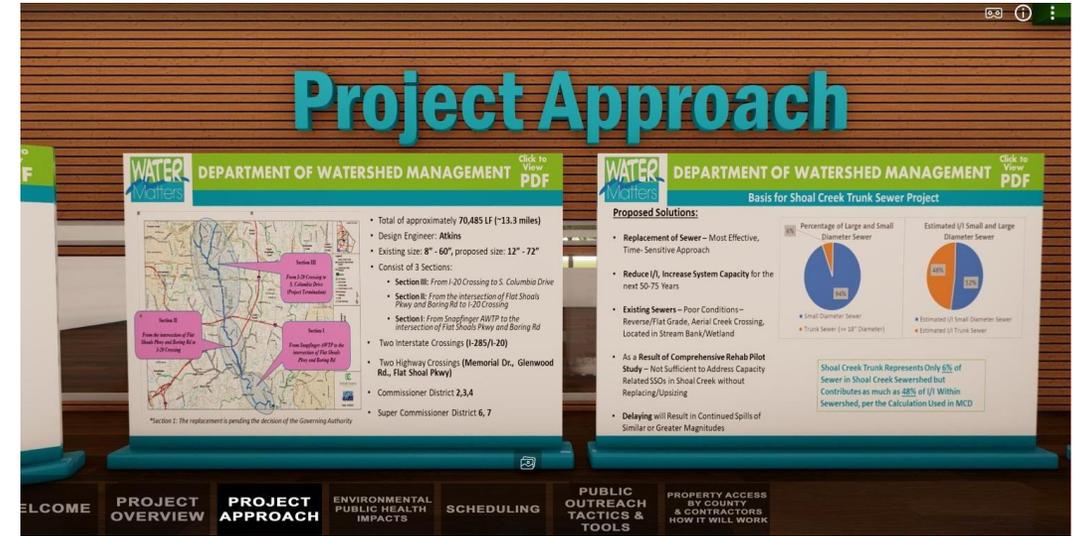
**Estimate Schedule*



Website and Virtual Meeting Room



- Interactive Web Access for Project Information
- Reside on DWM website

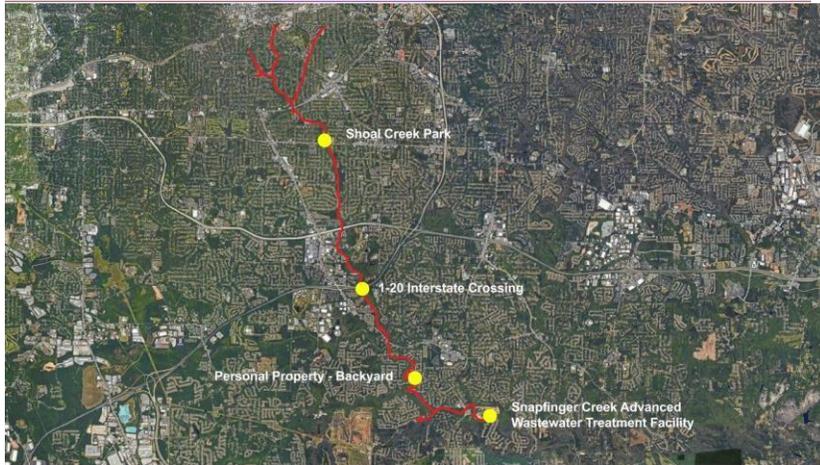
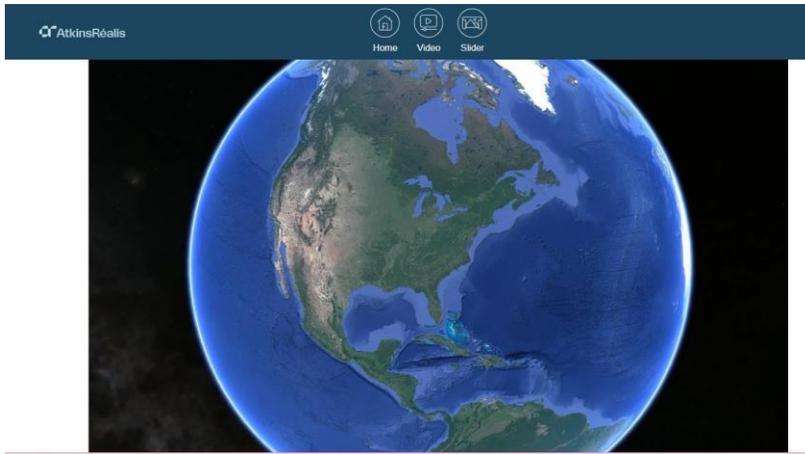


Link to Virtual Room: [Virtual Meeting Room](#)

Visualization Capabilities (Available on Website)



Fly over video

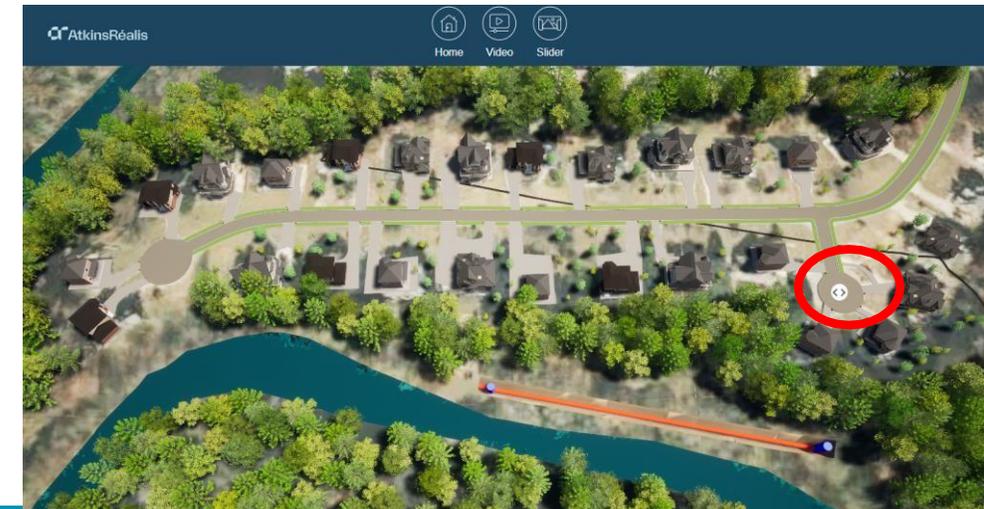


Link to Visualization Page: [Visualization Capabilities](#)

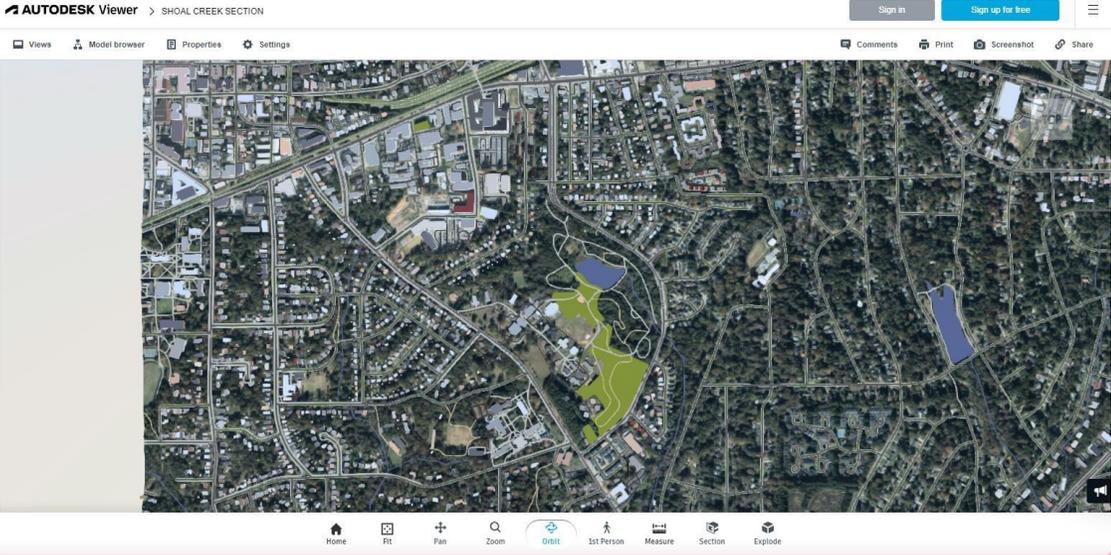
3D tour of critical points



Slider – slide the arrow left and right for visualization



Visualization Model (Available on Website)



Ability to Zoom in/
Pan/ Measure/ Tilt to
specific property/area
of interest



Link to Visualization Model: [Visualization Model](#)

Method of Communication



NEXTDOR

Subject: DWM and contractors schedule to proceed with Public Information Open House events for a new trunk sewer project design. Updated event dates are Nov. 14 and Nov. 16.
Audience: Residents and Businesses of Decatur

- 1433 Deerwood Dr, Decatur, GA 30030
- 1615 Melrose Ct, Decatur, GA 30022
- 2480 Miriam Ln, Decatur, GA 30022
- 3139 Thrasher Circle, Decatur, GA 30032
- 3230 Bonnie Rd, Decatur, GA 30024
- 4347 Flat Shoals Pkwy, Decatur, GA 30034
- 4148 Fabus Mill Rd, Decatur, GA 30034

DECATUR, GA

As part of DeKalb County's \$2.4 billion capital improvement program, the Department of Watershed Management (DWM) will be improving the capacity and service of the watershed systems serving your community. The Shoal Creek Trunk Sewer Improvement Project is being designed to improve the watershed system in your community.

Please join the department to learn more about the Shoal Creek Trunk Sewer Improvement Project, interact with the project team and provide feedback.

The county confirms and will host two (2) Public Information Open House (PIOH) events about this project. Both events will present the same information.

Meeting Dates & Times:

Tuesday, November 14
4:30 - 7:30 p.m.
DeKalb County Government facility
180 Sams St.,
Decatur, GA 30030

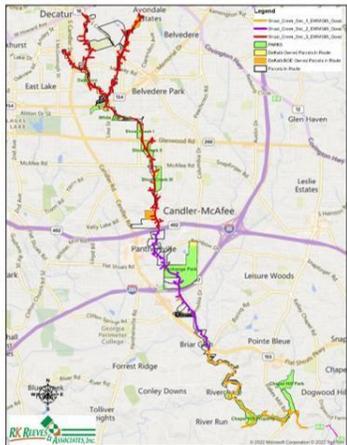
Thursday, November 16
4:30 - 7:30 p.m.
Community Achievement Center
4522 Flat Shoals Parkway
Decatur, GA

The Shoal Creek Trunk Sewer Improvement Project will address repeat sanitary sewer overflow areas and help meet future sewer demands for the next 50 years.

Construction is expected to begin in 2025 and last approximately three years, barring any unforeseen circumstances and weather delays.

Atkins, working on behalf of DeKalb County, is the engineering and design company for the Shoal Creek Trunk Sewer Improvement Project. Should you have any questions or concerns about this project, please contact the DWM Project Information Line at 1-800-986-1108 or email projectinfo@dekalbcountyga.gov.

DWM looks forward to your attendance and appreciates your support as we work diligently to improve DeKalb County's watershed system.



DOOR HANGERS/FLYERS



770.621.7200 (o)
770.621.7271 (f)
DeKalbCountyga.gov

Watershed Management
1550 Roadhaven Drive
Stone Mountain, GA 30083

David E. Hayes, Director

Chief Executive Officer
Michael Thurmond

Board of Commissioners

District 1

Robert Patrick

District 2

Michelle Long Spears

District 3

Larry Johnson

District 4

Stephen Bradshaw

District 5

Mereda Davis Johnson

District 6

Edward "Ted" Terry

District 7

Lorraine Cochran-Johnson

October XX, 2023

Subject: Shoal Creek Trunk Sewer Improvement Project - Public Information Open House Events

Dear Resident/Homeowner,

As part of DeKalb County's \$2.4 billion capital improvement program, the Department of Watershed Management (DWM) will be improving the capacity and service of the Watershed systems serving your community. The Shoal Creek Trunk Sewer Improvement Project is being designed to improve the watershed system in your community.

This letter serves as a formal invitation to learn more about the Shoal Creek Trunk Sewer Replacement Project, interact with the project team and provide feedback.

The county confirms and will host two (2) Public Information Open House (PIOH) events about this project. Both of these events will present the same information.

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We look forward to your attendance and appreciate your support as we work diligently to improve DeKalb County's watershed system.

MEDIA RELEASE



MEDIA CONTACTS:

- Andrew Cauthen, Communications Manager, acauthen@dekalbcountyga.gov, 470-553-4408 (c)
- Alicia Pennie, Public Relations Manager, apennie@dekalbcountyga.gov, 678-858-9488 (c)

FOR IMMEDIATE RELEASE

November 8, 2023

Public Information Open House Events for Shoal Creek Trunk Sewer Improvement Project On Nov. 14 and 16

DECATUR, Ga.— Efforts to improve the watershed system throughout DeKalb County continues with the design of Shoal Creek Trunk Sewer Improvement Project.

The county confirms and will host two (2) Public Information Open House (PIOH) events about this project. Both of these events will present the same information.

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For more information about the Shoal Creek Trunk Sewer Improvement Project and its upcoming open house events, contact the DWM Project Information Line at 1-800-986-1108 or email projectinfo@dekalbcountyga.gov.

- Notification Letter/Doorhanger
- News Release
- Website
- NextDoor – to targeted stakeholders
- Media Relations
- Social Media
- Project Fact Sheet (English and Spanish version)
- Frequently Asked Questions, FAQ (English and Spanish version)

Questions

