DEPARTMENT OF WATERSHED MANAGEMENT



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

Priority Fix List (PFL) Sites

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

DRIVERS/ NEEDS

Excessive I/I (Inflow/Infiltration)

Aged Infrastructure (Installed in 1960s)

Growth - Lack of Capacity

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

Benefits of the Consent Decree



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

History of Capacity Related Sanity Sewer Overflows (SSOs)

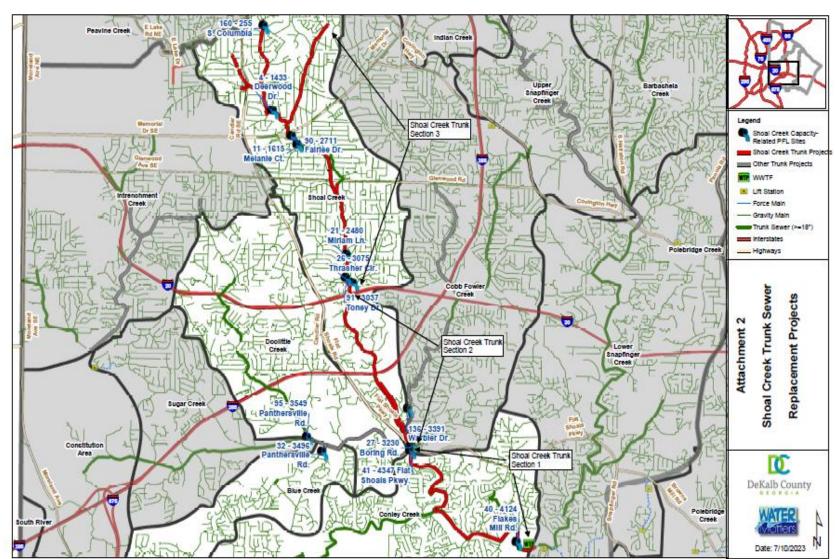


- Shoal Creek associated with 13
 Priority Fix List (PFL) Sites as
 Defined in MCD
- Per MCD PFL Sites Need
 Adequately Fixed by Dec 2027
- These PFL Sites Significant History of Capacity Related SSOs

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

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





Address
DEERWOOD DRIVE
MELANIE COURT
MIRIAM LANE
THRASHER CIRCLE
BORING ROAD
PANTHERSVILLE ROAD
FLAKES MILL ROAD
FLAT SHOALS PARKWAY
FAIRLEE DRIVE
TONEY DRIVE
PANTHERSVILLE ROAD
WARBLER DRIVE
SOUTH COLUMBIA

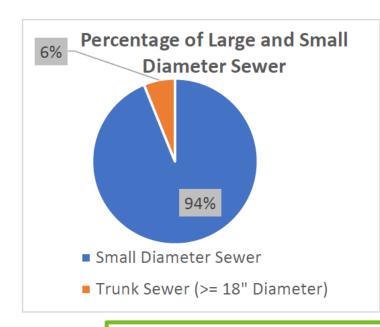
Approximate 129,618 LF of Replacement/Upsizing/Rehabilitation was Completed for these PFL Sites To Date

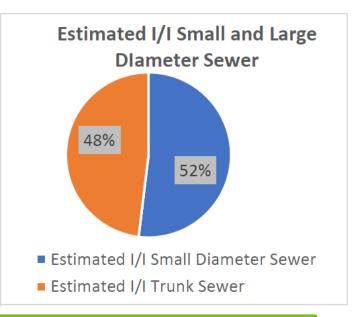
Basis for Shoal Creek Trunk Sewer Improvement Project



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

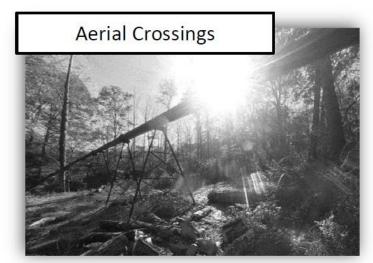




Shoal Creek Trunk Represents Only <u>6%</u> of Sewer in Shoal Creek Sewershed but Contributes as much as <u>48%</u> of I/I Within Sewershed, per the Calculation Used in MCD

Conditions of Existing Shoal Creek Trunk









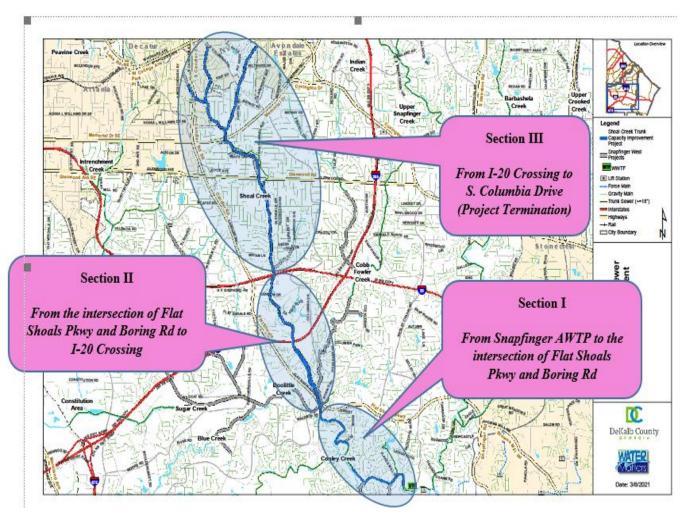






Shoal Creek Trunk Sewer Improvement Scope Overview



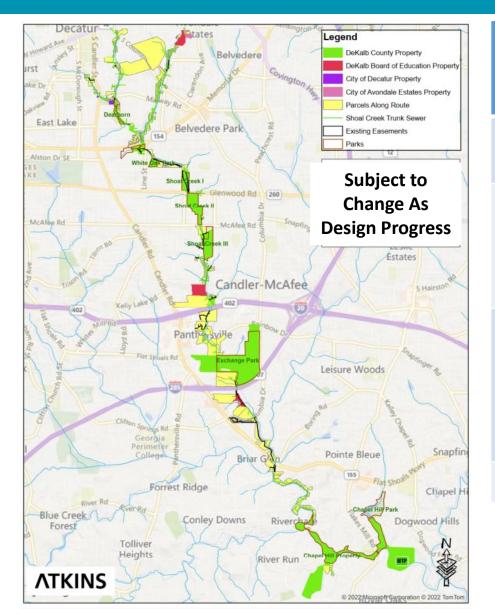


*Section 1: The replacement is pending the decision of the Governing Authority

- 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

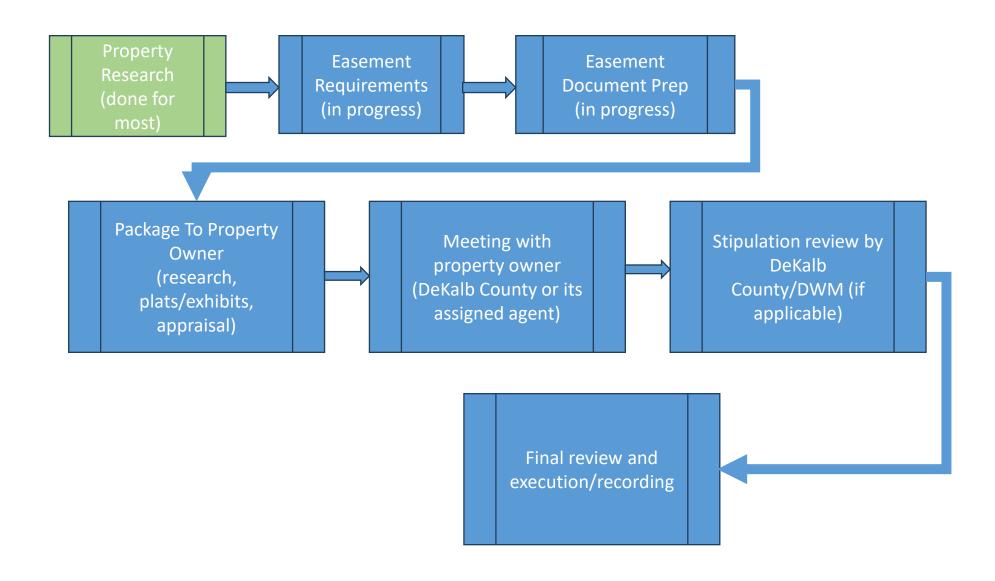
^{**}Record of Existing Easement Need Confirmation from Easement Research at Courthouse

^{***}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





Example of Right of Entry Form (ROE) and Easement Plat





RIGHT OF ENTRY (ROE) PERMISSION FORM

Date and Time	
Property Address	
Name (Print)	
Property Owner	
Phone Number (Home and/or Work)	
Property Owner	
Name (Print)	
County or Contractor Employee	
Phone Number	
County or Contractor Employee	
ROE Tracking Number	

Dekalo County ("County") and/or its contractor will be required to be outside of the County-owned easement area located on or adjacent to your property for sewer line assessment work associated with the Shoal Creek Trunk Sewer Replacement Project. The County and/or its contractor will require access to enter the property at ___Insert address) ______. Your permission will be required for County crews and/or Contractors to perform sewer line replacement outside dedicated easements or rights of way. They project is required by the ______. Pour permission will be required by the ______. They could be a contracted by the ______. They contrac

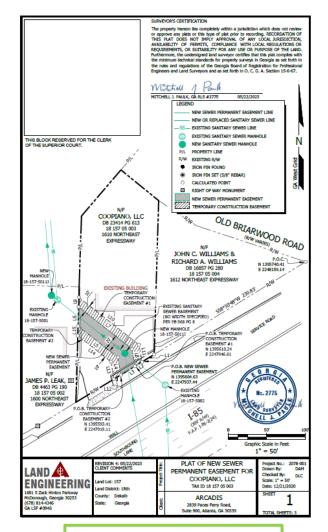
The County and its contractor(s) are required to restore your property and any authorized improvements back to substantially the same condition once the work is complete. This includes any portion of authorized driveways, fences, and trees, and the potential replacement of any lown areas with new seed or sod. Excavated material will be used as backfill when possible.

Please note however, that the County will not be responsible for damages to, or replacement of, any irrigation systems, fences, wires, poles, or structures that have been installed either: (1) in the County Right-of-Way in violation of DeKalb County County one Sec.17-6 (see below); or (2) in any County-owned easement area in violation of the terms of such personnel.

the terms of such easement.			
l,	(Property Owner), do hereby give my permission for the County and/or its		
contractor to enter my property in effect until the assessment w		ewer line assessment work. The right	of entry will remain
Signature (Property Owner)		Date	-
Signature (County Representati	ve/Firm}	Date	_

ROE Permission Form Page 2 Attachment 1: Sec. 17-6. - Obstructions to right-of-way, (a) Prohibited, it shall be unlawful for any person to obstruct the right-of-way of any public road, stress or other easement in the unincorporated area of the county by placing or maintaining thereon any obstruction, whether it is in the nature of

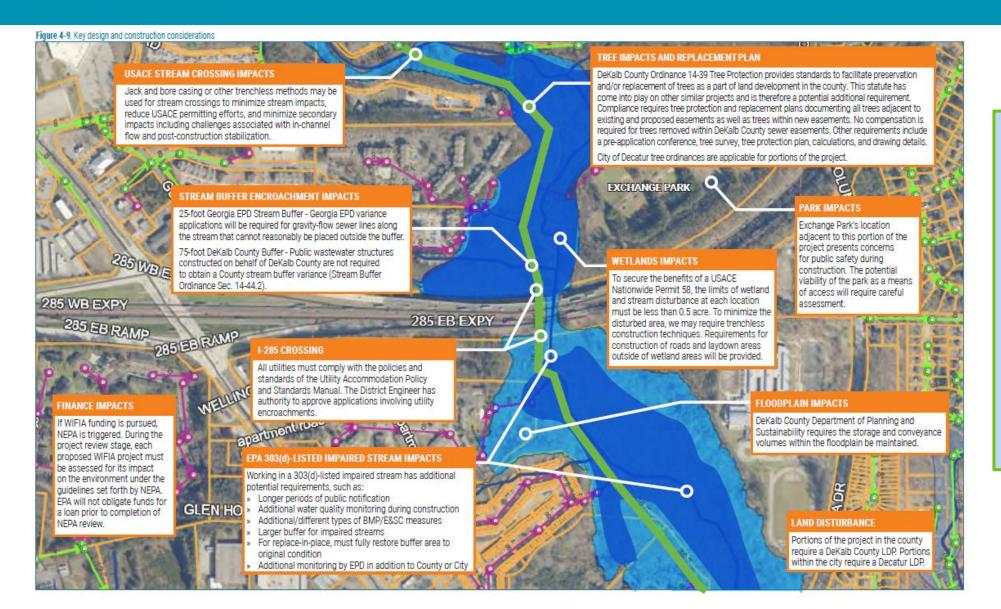
Example of Right of Entry Form (ROE)



Example of Easement Plat

Environmental Impact





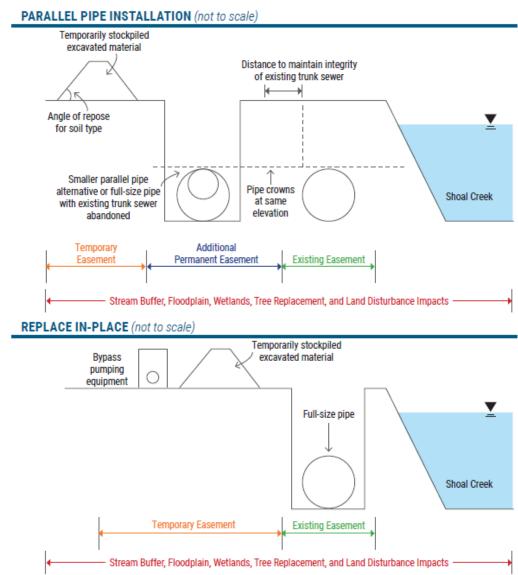
List of Permits

- US Army Corps of Engineers (USACE)
- EPD Stream Buffer Variance
- ➢ GDOT
- DeKalb LandDisturbance 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)/AbandonExisting Sewer
- Future Rehabilitation of Existing Pipe



Shoal Creek Trunk Sewer Replacement Options – 3D **Visualization**

EXPOSED IN

OFFSET FROM



MH 15-153-s035

EXPOSED CREEK

BURIED CREEK

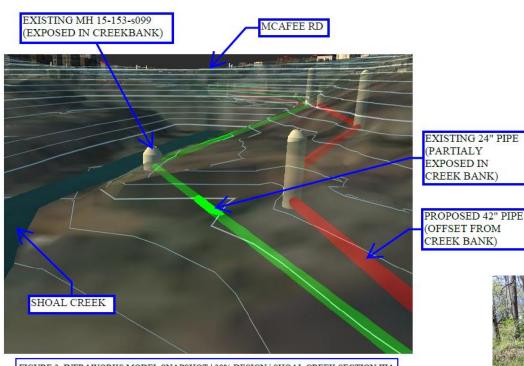


FIGURE 3: INFRAWORKS MODEL SNAPSHOT | 30% DESIGN | SHOAL CREEK SECTION IIIA

EXISTING PIPES SHOWN IN GREEN PROPOSED PIPES SHOWN IN RED

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



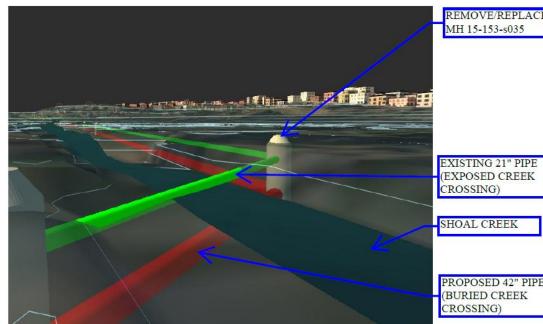
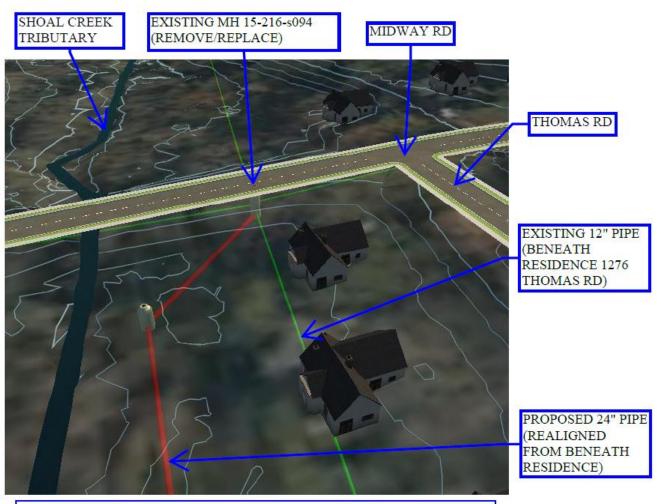


FIGURE 1: INFRAWORKS MODEL SNAPSHOT | 30% DESIGN | SHOAL CREEK SECTION IIIA

EXISTING PIPES SHOWN IN GREEN PROPOSED PIPES SHOWN IN RED

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

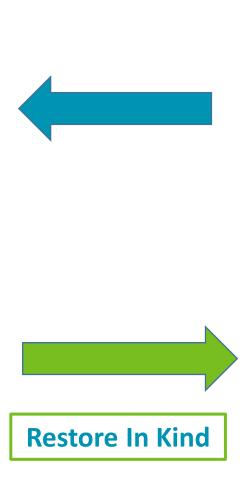


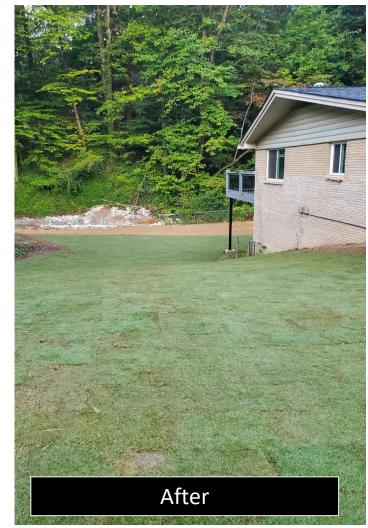
Jack and Bore and Micro
Tunneling Under Major
Highway/Interstate/GDOT
Crossing

Site Restoration









Shoal Creek Trunk Sewer Improvement Project Timeline



*Estimate Schedule

Design Phase

• Bid Phase: Mid 2024

• **Bid Duration:** Up to 12 mo.

Construction Phase

Warranty Period: 2028

• **Duration**: 12 mo.









• NTP: 8/5/2022

• Kick Off: 8/29/2022

• **30% Design:** Feb 2023

• **60% Design:** Jun 2023

• **90% Design:** Oct 2023

• 100% Design: Jan 2024

• Easement Acquisition

Permitting

• **Duration**: Up to 24 mo.

Bid Phase

• Construction: Early/Mid 2025

• **Duration**: Approx. 3 Years

Section 1

Section 2

Section 3A/3B

• Substantial Completion: Dec 2027

• Final Completion: Early 2028

Post Construction Phase

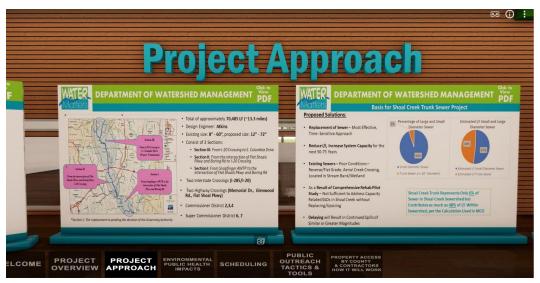
Website and Virtual Meeting Room



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



Link to <u>Virtual Room</u>: <u>Virtual Meeting Room</u>

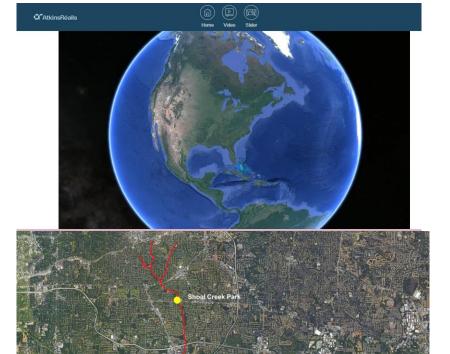




Visualization Capabilities (Available on Website)



Fly over video

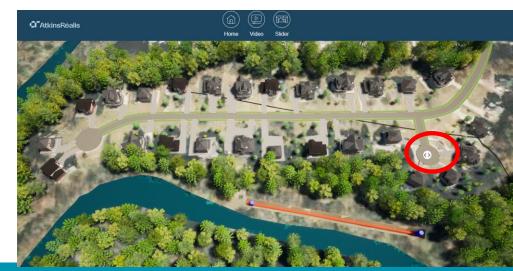


3D tour of critical points





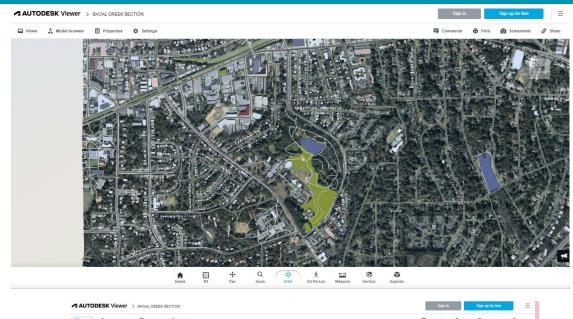
Slider – slide the arrow left and right for visualization



Link to <u>Visualization Page</u>: <u>Visualization Capabilities</u>

Visualization Model (Available on Website)







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



Link to <u>Visualization Model</u>: <u>Visualization Model</u>

Method of Communication



NEXTDOOR

Audience: Residents and Rusinesses of Decatur

- 3230 Boring Rd, Decatur, GA 30034 4347 Flat Shoals Pkwy, Decatur, GA 30034 4124 Flakes Mill Rd, Decatur, GA 30034

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

Please inin the department to learn more about the Shoal Creek Trunk Sewer Improvement Project interact

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

Meeting Dates & Times:

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 unforeseer circumstances and weather delays.

Atkins, working on behalf of DelKalb 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 DVM Project Information line at 1-80-985-1106 or email projecting/delable/pounty/sq.gov.







DOOR HANGERS/FLYERS

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

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)

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.

The project is expected to begin in 2025 and last approximately three years,

Atkins, working on behalf of DeKalb County, is the engineering and design company for the Shoal Creek Trunk Sewer Replacement Project. Should you have any questions or concerns about this project, please contact the DWM Project Information

We look forward to your attendance and appreciate your support as we work diligently

barring any unforeseen circumstances and weather delays

line at 1-800-986-1108 or email projectinfo@dekalbcountyga.gov

to improve DeKalb County's watershed system.

events about this project. Both of these events will present the same information.



October XX, 2023

Open House Events

Dear Resident/Homeowner

Meeting Dates & Times:

Tuesday, November 14

DeKalb County Government facility

4:30 - 7:30 p.m.

180 Sams St.

Decatur, GA 30030

770.621.7200 (o) 770.621.7271 (f)

Thursday, November 16

Community Achievement

4522 Flat Shoals Parkway

4:30 - 7:30 p.m.

Decatur, GA

Watershed Management 1580 Roadhaven Drive

David E. Haves, Director

Subject: Shoal Creek Trunk Sewer Improvement Project - Public Information

Stephen Bradshaw

Edward "Ted" Terry

Chief Executive Officer

District 1 Robert Patrick District 2 Michelle Long Spears District 3 Larry Johnson District 4

District 5 Mereda Davis Johnson District 6

Lorraine Cochran-

MEDIA RELEASE



Department of

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

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.

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

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

Atkins, working on behalf of DeKalb County, is the engineering and design company for the Shoal Creek Trunk Sewer Improvement Project

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





