



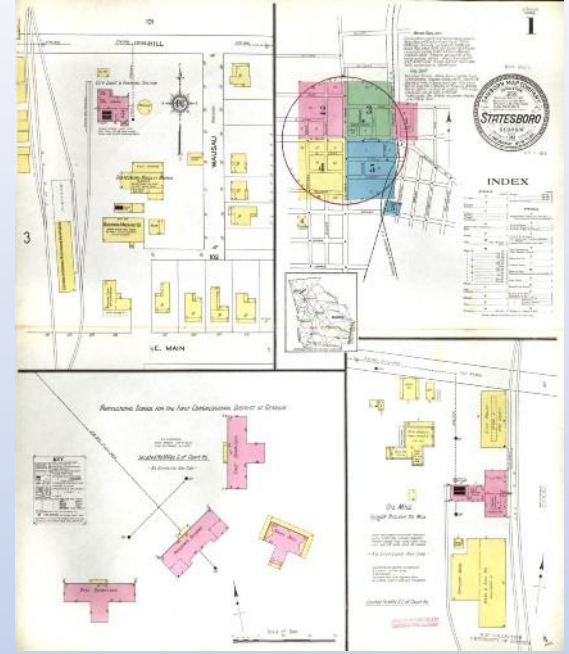
Mayor & Council Work Session

September 17, 2024 at 4:00 P.M



Agenda

1. Transportation Master Plan Presentation
2. Housing Rehabilitation Program
3. Water and Wastewater System Presentation
4. Strategic Plan Update



Statesboro Bulloch County Long-Range Transportation Plan Update

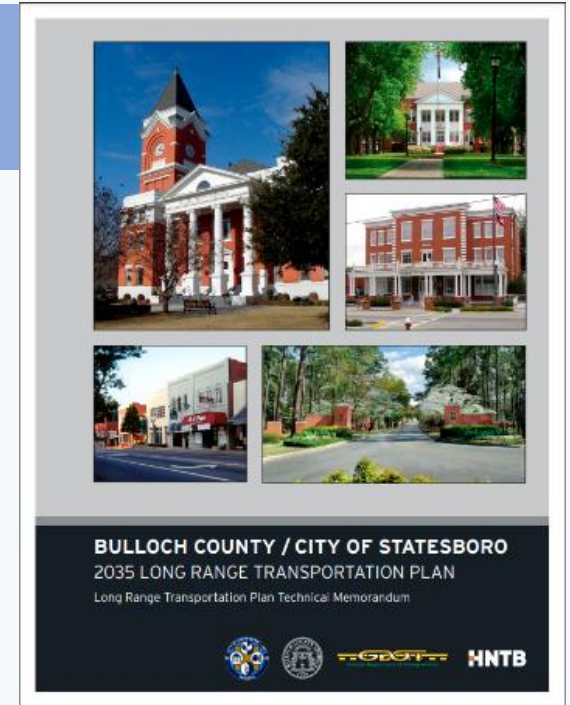


**Mayor & City Council
September 17, 2024**

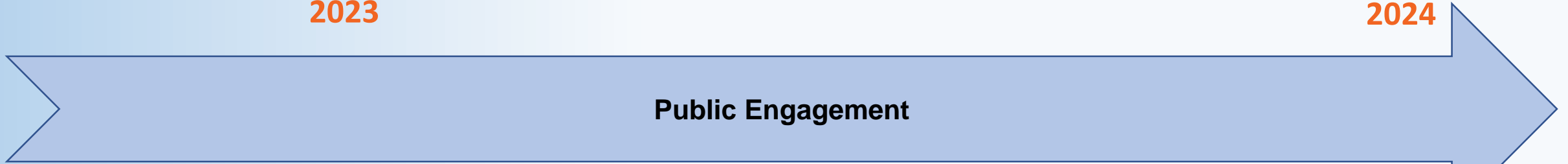
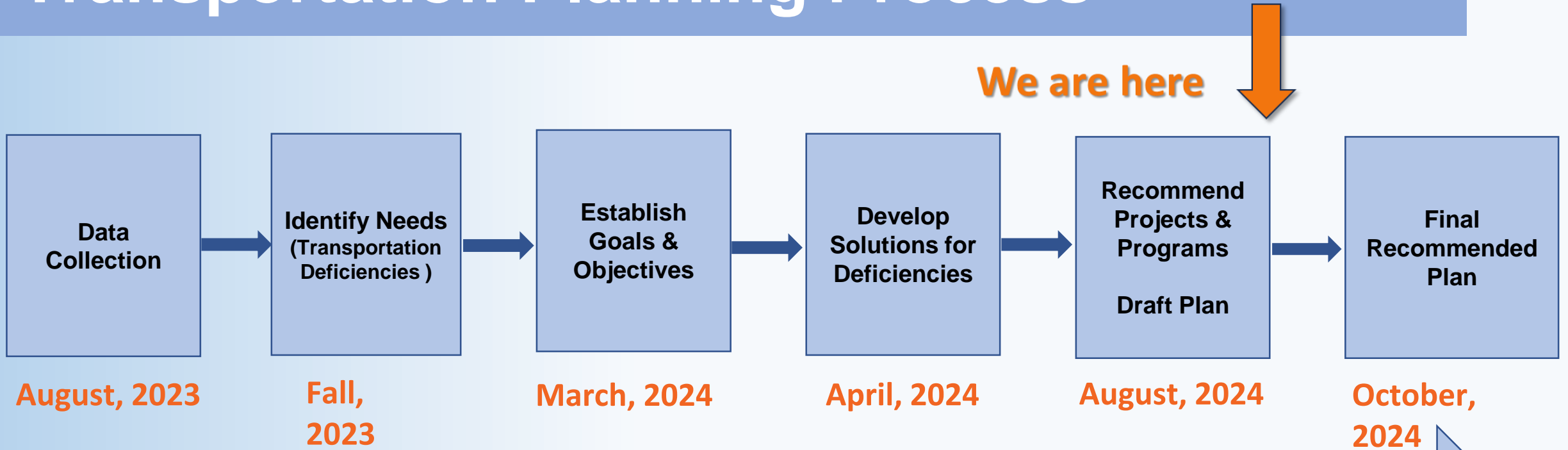


Transportation Plan

- » Long Range Transportation Plan 2045
- » Update from 2035 Long Range Transportation Plan from 2009
- » Multimodal – Vehicles, Bike, Walk & Transit
- » Functionality of Transportation
- » Maintain Character of Community



Transportation Planning Process



We are here



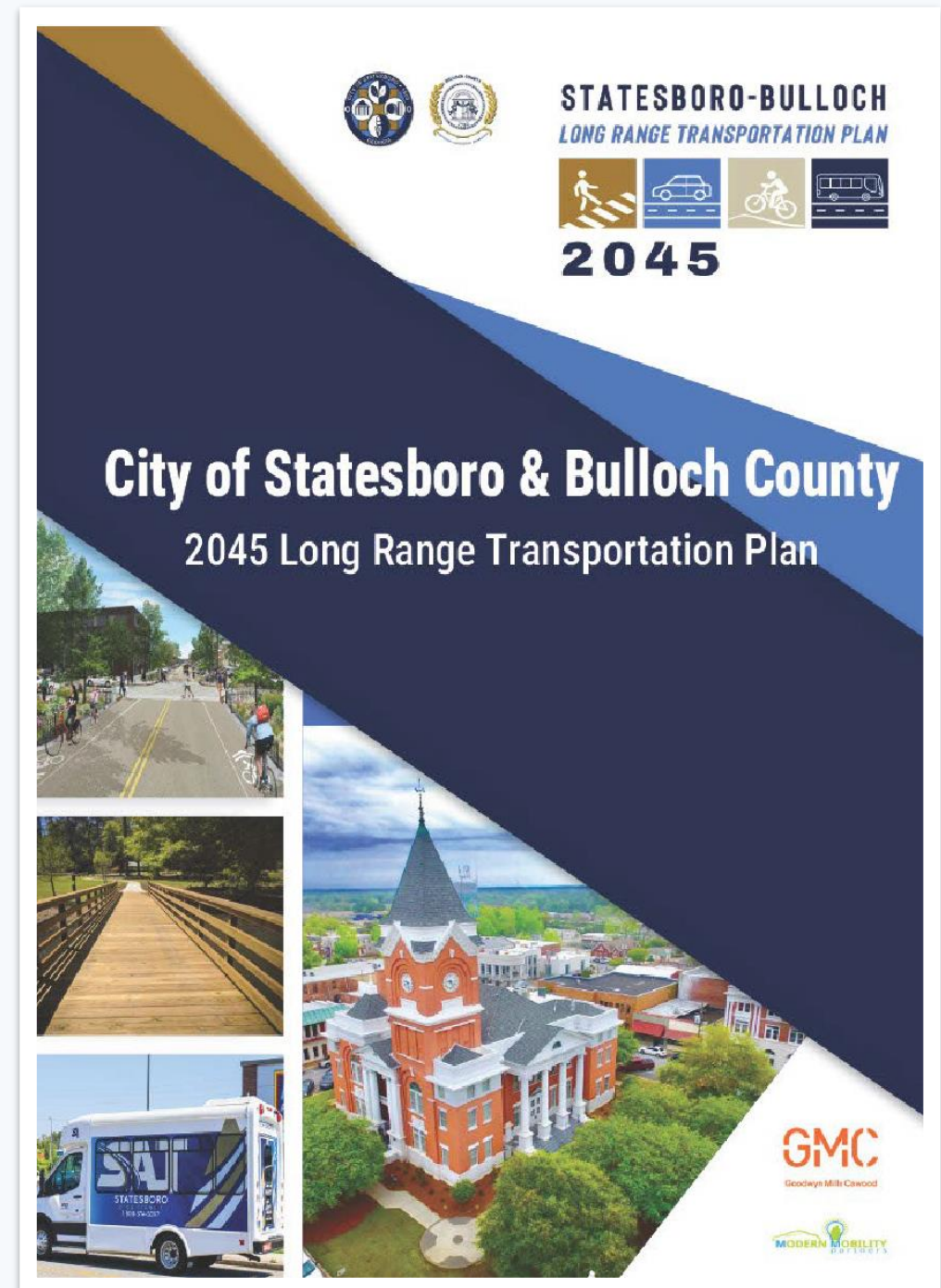
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Public Involvement

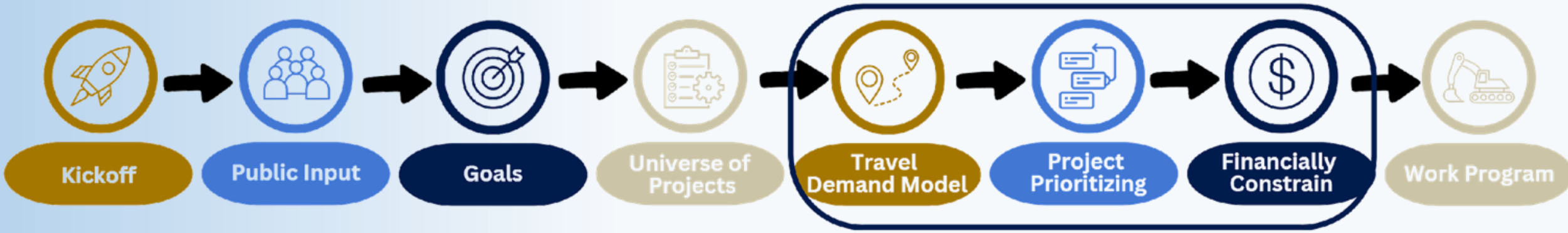
1. Public Open House Workshops:
 - » September 25th in Statesboro
 - » November 16th in Brooklet
 - » March 12th in Statesboro
 - » September 19th in Statesboro
2. Online Community Survey – 1,000 respondents
3. Web Site and Social Media – Web Site Updates
4. Technical Advisory Committee – 4 Meetings
5. Mayor and City Council Updates
6. Board of Commissioners Updates



Draft 2045 Long Range Transportation Plan



Transportation Planning Process



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Four-Step Travel Demand Model



Trip Generation

How many trips?



Trip Distribution

Where are they going?



Mode Choice

What mode are they using?



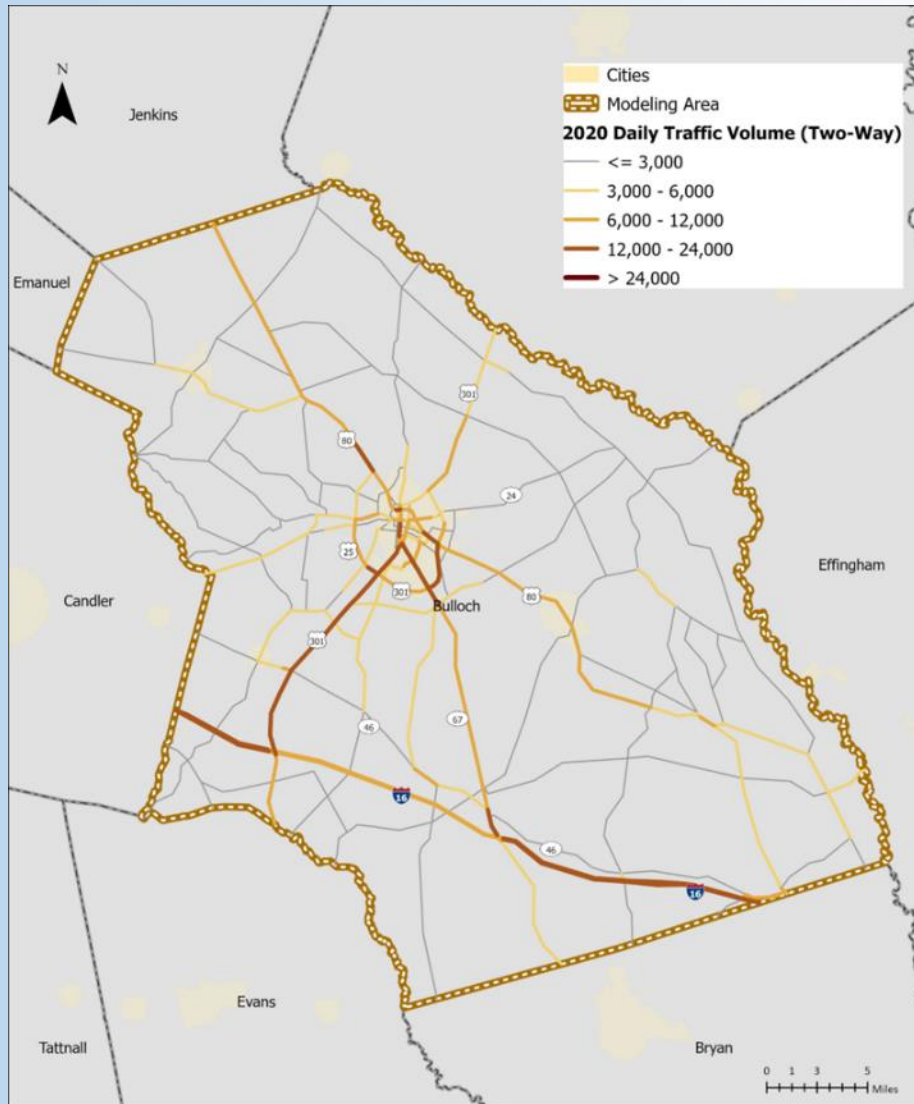
Trip Assignment

What route will they use?

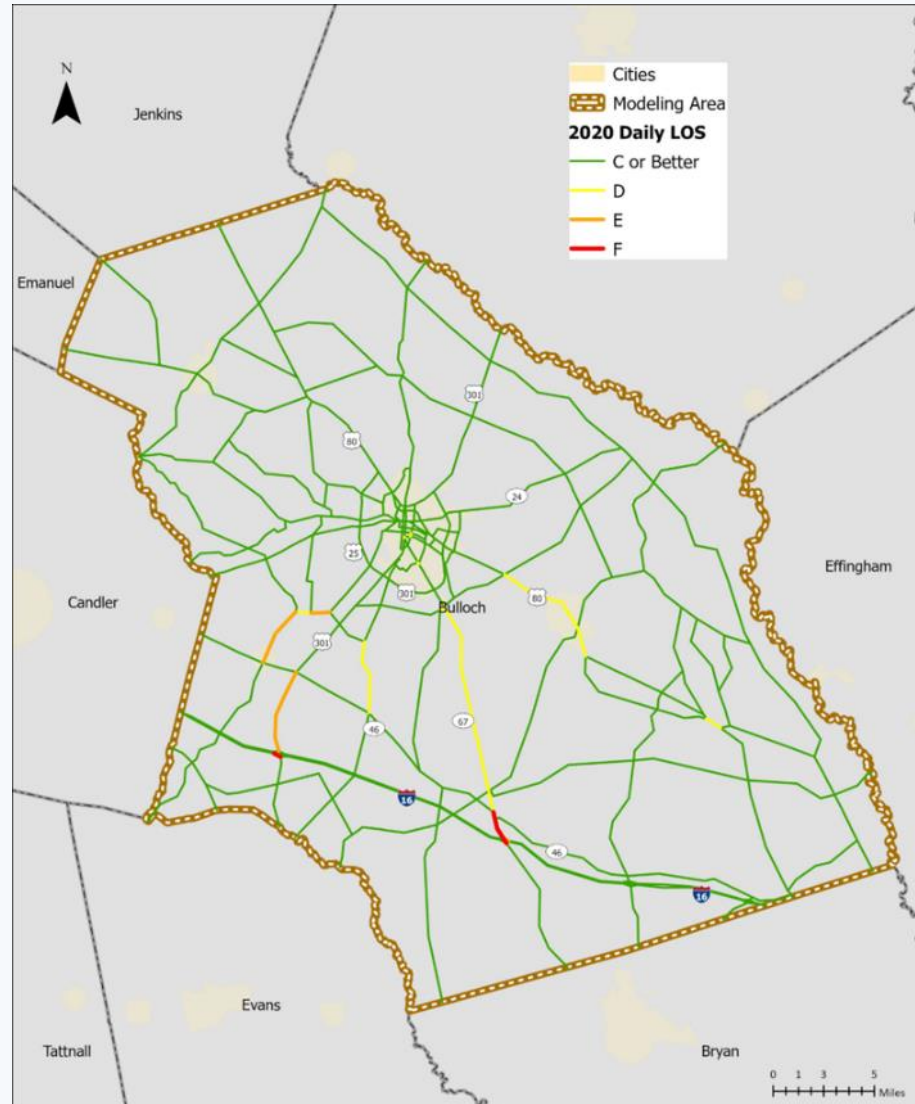


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Travel Demand Model



Bulloch County 2020 Travel Demand Model
2020 Daily Traffic Volume (Two-Way)



Bulloch County 2020 Travel Demand Model
2020 Daily Level of Service (LOS)



Prioritization & Evaluation Criteria

23 Metrics in 8 Categories

1. Congestion & Connectivity
2. Roadway Operations
3. Roadway Conditions
4. Active Transportation
5. Regional Mobility & Economic Development
6. Transit
7. Environment & Equity
8. Feasibility



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Prioritization & Evaluation Criteria - Examples

Congestion & Connectivity				
Metric 1: Reduction of Vehicle Hours Traveled Source: MMP Travel Demand Model	Percent improvement over base year:			Projects that reduce the time people spend driving should be highly encouraged.
	>-15%	4		
	-10%--15%	3		
	-5%--10%	2		
	<-5%	1		
	Does not improve	0		
	Increases VHT	-1		
Metric 2: Level of Service Source: MMP Travel Demand Model	Does the project improve the LOS of an existing facility?	Yes	1	Projects that improve the level of service rating for an existing facility should be prioritized.
		No	0	
Roadway Operations				
Metric 3: Improve Operational Efficiency and Reliability Source: GMC Staff	Operational, Intersection, or safety project?	Yes	2	Projects that improve the efficiency and reliability of traffic flow throughout the county are a priority.
		No	0	



Prioritization & Evaluation Criteria - Examples

Feasibility			
	TAC/Public Survey Indicated Priority:		
Metric 19: Stakeholder Priority Source: TAC & Public Input	Very High	4	Projects that were determined to be a high priority by the TAC and public input should be prioritized.
	High	3	
	Medium	2	
	Low	1	
Metric 20: Right-of-way Acquisition Source: City/County Staff	The project does not require additional ROW	5	Right-of-way acquisitions can be a major limiting factor in project feasibility. Projects that have available ROW should be prioritized.
	The project requires additional ROW and is readily available	3	
	The necessary ROW for the project is constrained or limited	0	
	There is no additional ROW acquisition available	-1	



Funding Sources

FEDERAL	<ul style="list-style-type: none"> • Highway Trust Fund • Usually 50% to 80% 	National Highway Performance, Surface Transportation Program, Congestion Mitigation & Air Quality Program, Highway Safety Improvement Program, Transportation Alternatives Program, Federal Transit Administration
STATE	<ul style="list-style-type: none"> • Georgia Department of Transportation (GDOT) • Primarily on State Routes 	Local Maintenance and Improvement Grant (LMIG) State Transportation Improvement Program (STIP)
LOCAL	<ul style="list-style-type: none"> • General Fund • Sales Taxes 	Special Purpose Local Option Sales Tax Program (SPLOST) Transportation Special Purpose Local Option Sales Tax Program (TSPLOST)



Estimated Funding Availability 2025-2029

Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Bulloch County						
TSPLOST	\$ 8,500,000	\$ 8,500,000	\$ 8,500,000	\$ 8,500,000	\$ 8,500,000	\$ 8,500,000
LMIG (GDOT)	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000	\$ 1,750,000
TAP	\$ 650,400	\$ 4,232,300				
Total	\$ 10,900,400	\$ 14,482,300	\$ 10,250,000	\$ 10,250,000	\$ 10,250,000	\$ 10,250,000
City of Statesboro						
TSPLOST Roads	\$ 4,194,000	\$ 5,592,000	\$ 5,592,000	\$ 5,592,000	\$ 5,592,000	\$ 1,398,000
TSPLOST Transit	\$ 450,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 150,000
LMIG (GDOT)	\$ 1,689,000	\$ 0	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Total	\$ 6,333,000	\$ 6,192,000	\$ 6,492,000	\$ 6,492,000	\$ 6,492,000	\$ 1,848,000
Combined						
Total	\$ 17,233,400	\$ 20,674,300	\$ 16,742,000	\$ 16,742,000	\$ 16,742,000	\$ 12,098,000



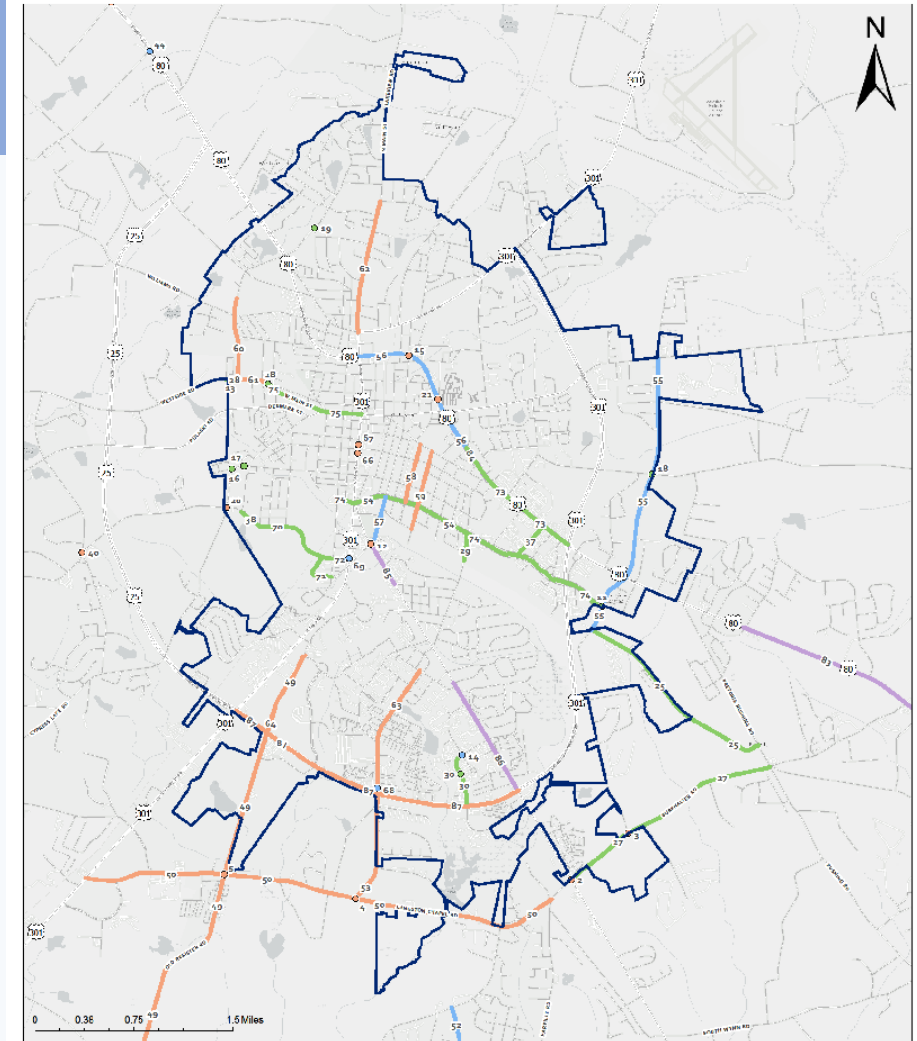
Universe of Projects

- » 87 Projects
- » Organized by Project Type
- » Listed in Priority Order, based on Technical Advisory Committee and Public Input
- » Bulloch County Projects List
- » City of Statesboro Projects List



Fiscally Constrained Plan

- » City of Statesboro
- » 28 Projects funded 2025 -2029



STATESBORO-BULLOCH
LONG RANGE TRANSPORTATION PLAN

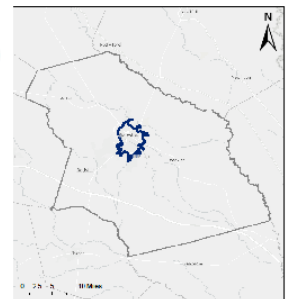


2045



City of Statesboro Projects

- Bulloch County
- Statesboro
- Long-term Project
- Medium-term Project
- Short-term Project
- Long-term Project
- Medium-term Project
- Short-term Project
- GDOT Project
- GDOT Project



Fiscally Constrained Plan – Statesboro

Project Number	Description	Priority	Cost	Timeline	Funding Source
66	Transit pull off at South Main at Queensboro Bank	Very High	\$400,000	Short Term – FY 2024	TSPLOST Transit
21	Intersection improvements at Turner Street at Northside Drive	Very High	\$572,000	Short Term – FY 2024	LMIG
61	Construct sidewalks at West Main Street from Stockyard Road to Foss Street.	Very High	\$350,000	Short Term – FY 2024	LMIG
63	Construct bike lanes/multi-use trail at Lanier Drive from Georgia Avenue to Veterans Parkway	Very High	\$2,000,000	Short Term – FY 2024	TSPLOST Roads
60	Construct sidewalks at Stockyard Road from Bryant's Landing to West Main Street	Very High	\$200,000	Short Term – FY 2024	LMIG
64	Construct bike lanes/multi-use trail at Old Register Road from RAC parking lot to Veterans Parkway.	Very High	\$500,000	Short Term – FY 2024	LMIG
62	Construct sidewalks at North Main Street from Parrish Street to Fletcher Drive	Very High	\$500,000	Short Term – FY 2024	TSPLOST Roads
58	Construct sidewalks and bike lanes at College Blvd from Savannah to Brannen Street	Very High	\$500,000	Short Term – FY 2024	TSPLOST Roads
67	Transit pull off South Main at Library	Very High	\$348,765	Short Term – FY 2025	TSPLOST Transit
87	Multi-use path along bypass (SR 301 to SR 67)	Very High	\$3,500,000	Short Term – FY 2025	TSPLOST Roads
12	Intersection improvements at Zetterower/Tillman Road at SR 67/Fair Road	High	\$1,000,000	Short Term – FY 2025	TSPLOST Roads
15	Intersection improvements at Zetterower and Northside Drive	High	\$600,000	Short Term – FY 2025	TSPLOST Roads
59	Construct sidewalks and bike lanes at Park Ave. from Savannah to Brannen Street	High	\$200,000	Short Term – FY 2025	TSPLOST Roads
20	Intersection improvements at Cypress Lake at Country Club	High	\$512,000	Short Term – FY 2025	TSPLOST Roads



Next Steps

- » Draft Long-Range Transportation Plan – Under Review
- » Final Public Open House Meeting – Thursday Evening
- » Edits to Draft Long-Range Transportation Plan
- » Final Long-Range Transportation Plan Adoption

Thank You!

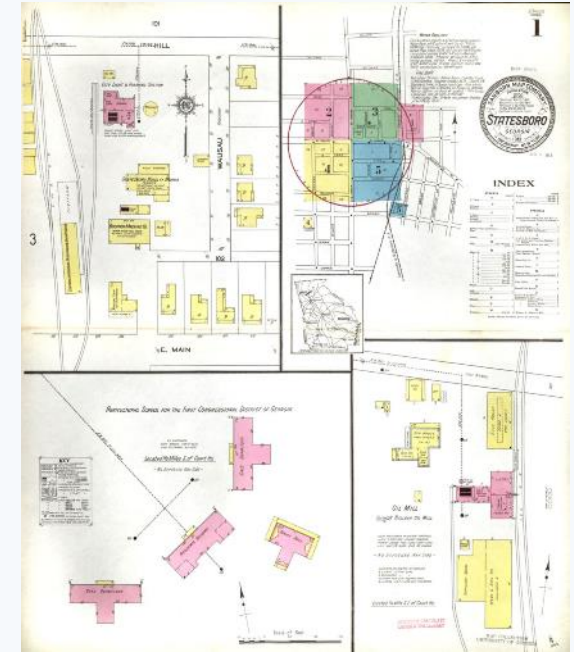


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SOUTH MAIN STREET LOOKING SOUTH, STATESBORO, GA.

109237



Questions and Discussion



Housing Rehabilitation Program Update



Development Status

- The Housing Rehabilitation Program has been active since approval in 2022.
- As of the last bid opening on September 11, 2024, the program has awarded over \$3.6 million towards both rehab and reconstruction in the community.
- We have worked through multiple properties, correcting some small issues, and some major.



Property Progress

Original Flooring



Renewed Flooring



Damaged Subfloor

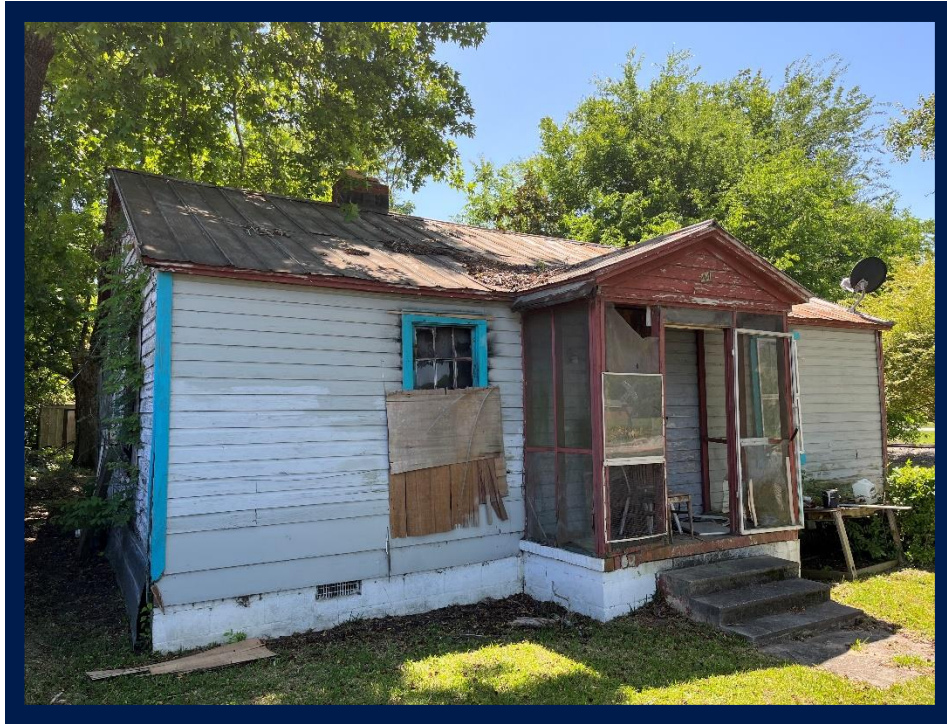


Reconstruction Homes

- The first reconstruction home (pictured below) should be move in ready within the next two weeks.
- The second reconstruction home is slated to begin demolition within the next few weeks as contractors complete other homes.
- On September 11, bids were opened to award contracts on an additional 4 reconstruction homes.



SITE AND SURROUNDING PROPERTY



Original Home

New Construction



Second Application Period

- The second round of applications for the program lasted for approximately 2 weeks.
- In that timeframe, we received nearly 40 new applications.
- Only 17 were completed correctly, and staff is working with the remaining applicants to correct any noted paperwork issues for submission.



Staff Request

- Amending the Contract for Insight Planning & Development to allow for them to continue working on the rehabilitation and remaining reconstruction homes.
- The proposed contract amendment is for \$175,000.



Questions?



Water and Wastewater System



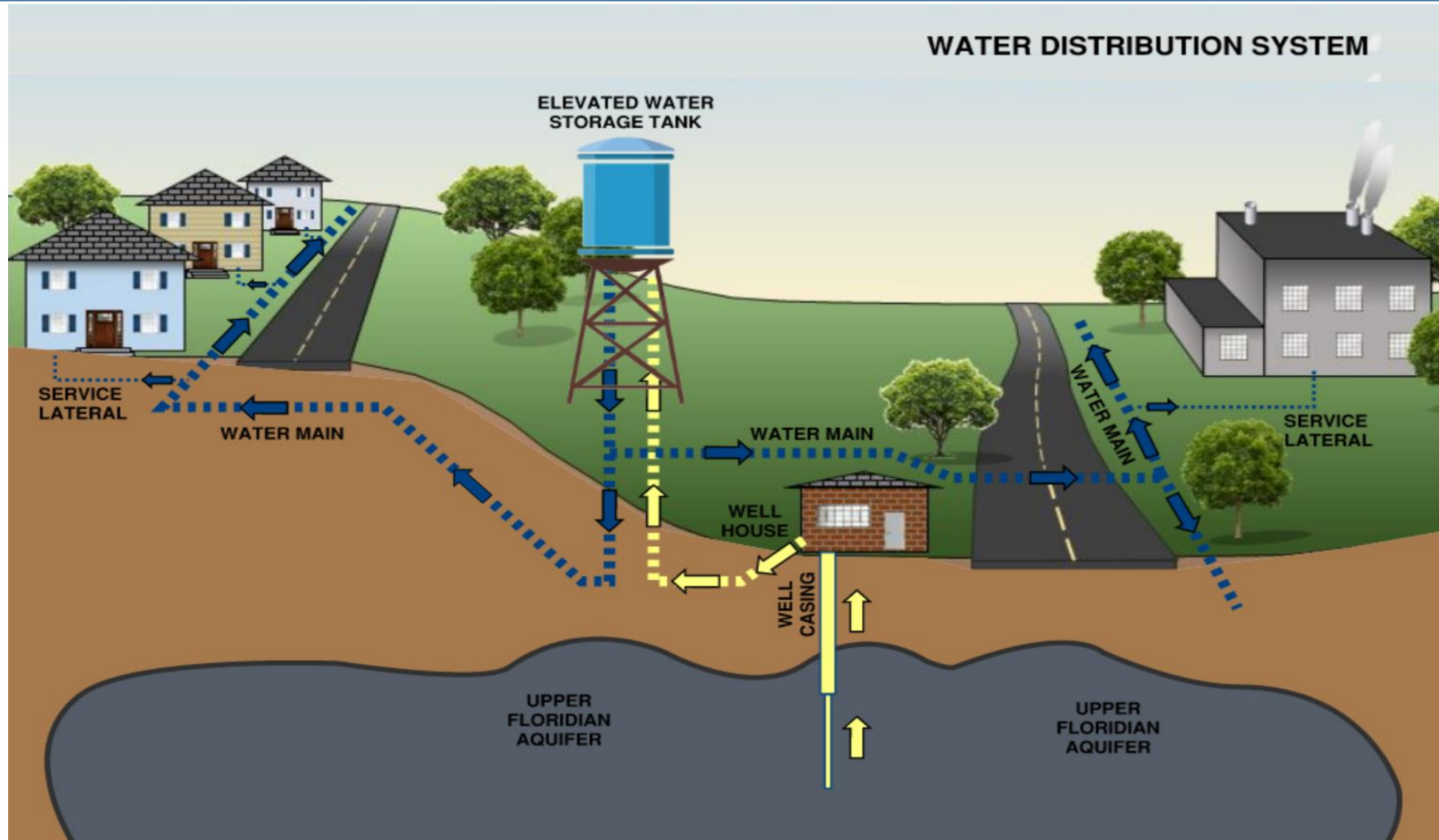


Statesboro's Drinking Water System





Statesboro's Drinking Water System

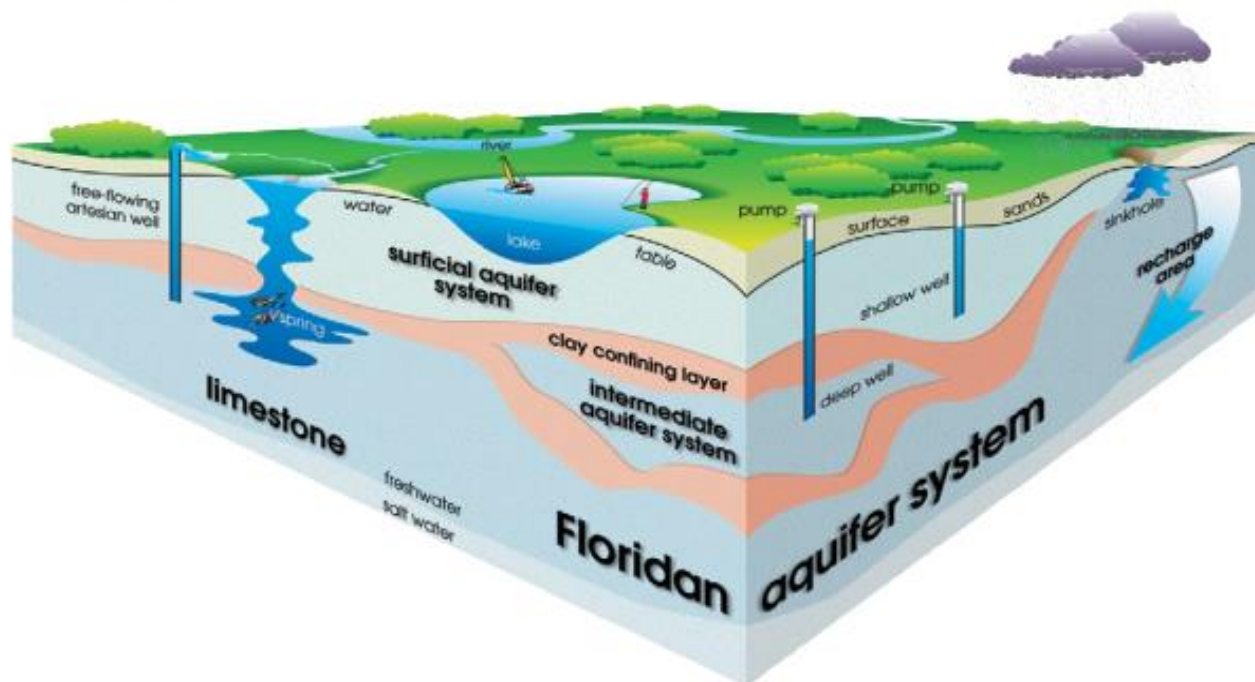




Statesboro's Drinking Water System

Where Does Statesboro's Water Come From?

The raw water supply for Statesboro's drinking water is the Floridan Aquifer, which is a limestone formation running under the entire county and extending south. Raw water from this aquifer is of a very high quality. Water is withdrawn from the Floridan Aquifer utilizing six active deep wells.



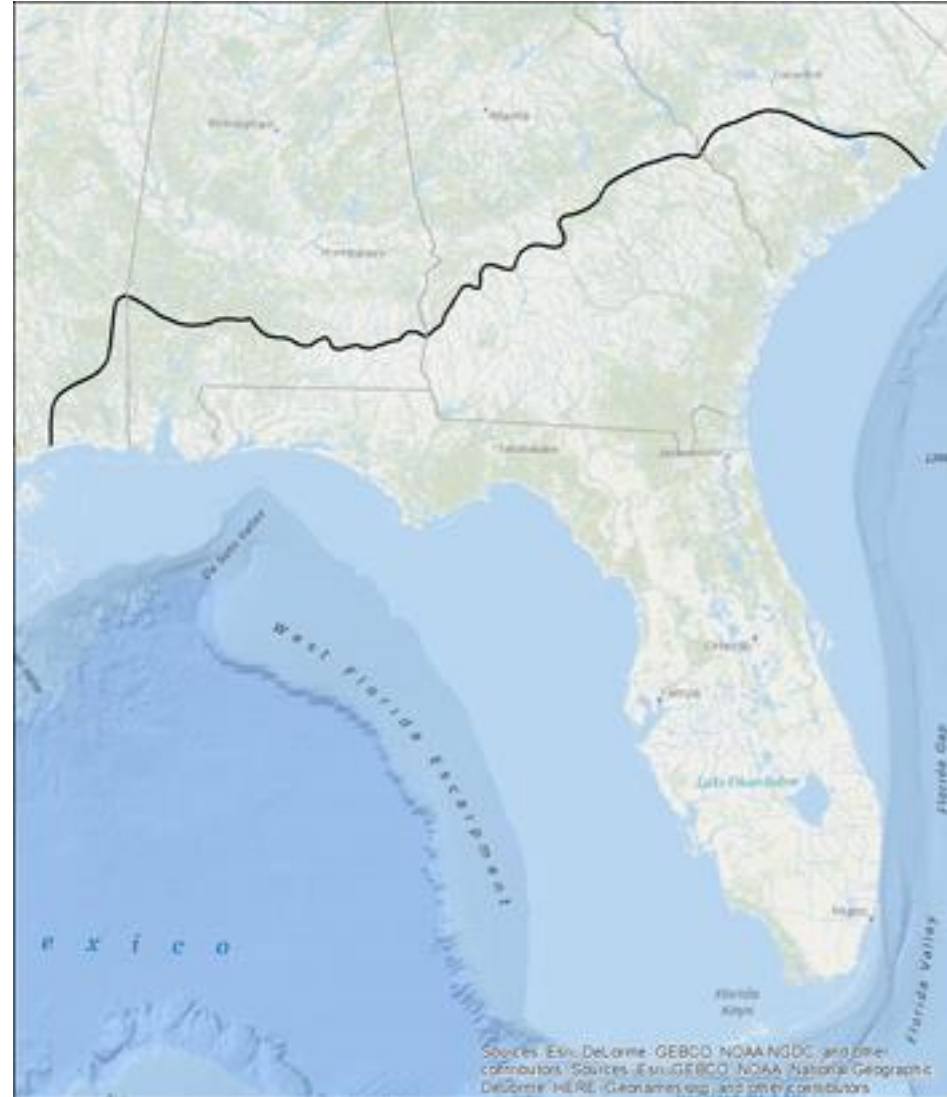


Statesboro's Drinking Water System

What is the Floridan Aquifer?

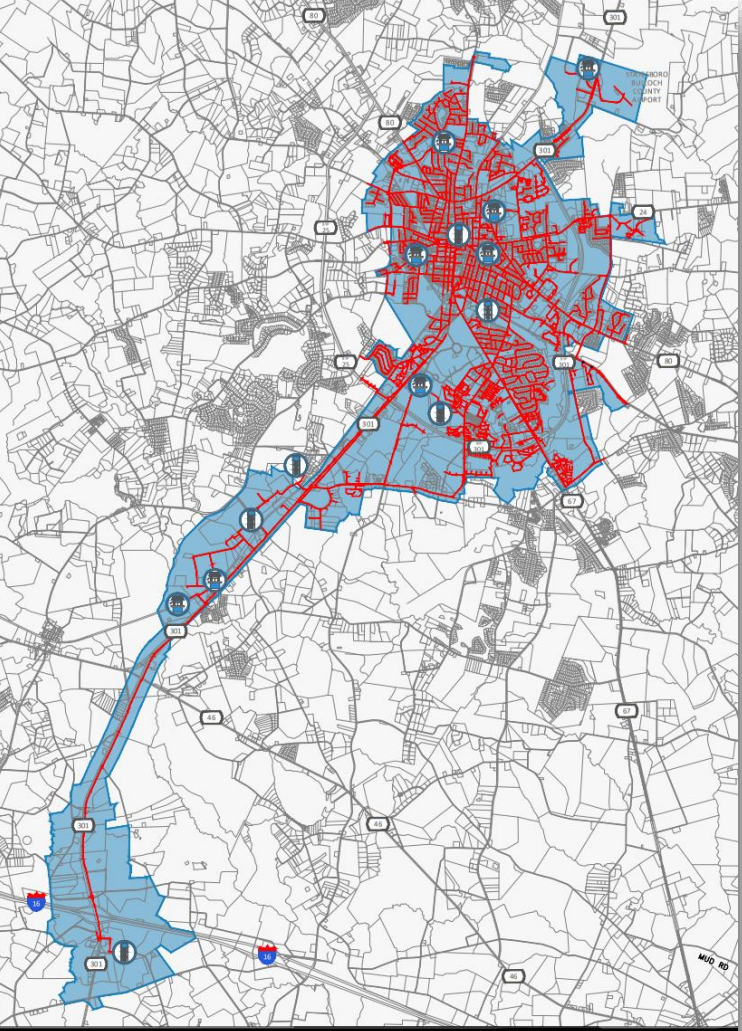
The Floridan Aquifer System (FAS) is the principal aquifer of the United States and is one of the most productive aquifers in the world. It covers approximately 100,000 sq mi of the southeastern US. Water supply wells were first drilled in the late 1880's and the FAS is the primary source of drinking water of this region. However, industrial and agriculture uses account for nearly 50% of the total withdrawal rate from the FAS.

source: USGS





Existing Water System



CITY OF STATESBORO
EXISTING WATER DISTRIBUTION SYSTEM
DATE: SEPTEMBER 2024 SCALE: 1" = 2,500'

MAP LEGEND:
- WATER MAIN
- GROUND WATER WELL
- ELEVATED WATER STORAGE TANK
- CITY OF STATESBORO SERVICE AREA



Statesboro's Drinking Water System

Statesboro's Water System operates under two separate water permits issued through the State of Georgia Environmental Protection Division: (1) Permit to Use Groundwater and (2) Permit to Operate a Public Water System.

Permit to Use Groundwater – Flow Limitations

	Permit Limit	FY2024 Actual
Monthly Average	7.345 MGD	4.157 MGD (highest)
Annual Average	5.875 MGD	3.703 MGD



Statesboro's Drinking Water System

The drinking water system serving the City of Statesboro is comprised of three basic components: Raw Water Supply, Water Treatment and Water Distribution System. The Water System has been expanded to consistently exceed the demand as the City of Statesboro has grown over the years. Services are provided to approximately 13,000 water customers with an average daily water consumption of 3.7 million gallons. Statesboro has approximately 256 miles of water main and 1,720 fire hydrants.

Water for drinking/potable use, as well as Fire Protection, is available to over 99% of the incorporated areas of the City. The Water System also provides service to all Industrial Parks in Bulloch County, outside the City Limits.



Statesboro's Drinking Water System

Statesboro's drinking water is provided from six (6) active deep wells.

Well #	Address	Depth (ft)	Capacity (GPM)	Construction date (age)
2	Savannah Ave.	525	700	1908 (116 years old)
4	Proctor St.	545	1,100	1948 (76 years old)
6	Jef Rd.	496	900	1978 (46 years old)
8	Old Register Rd.	540	625	1989 (35 years old)
9	Zell Miller Pkwy.	647	2,200	1995 (29 years old)
10	Goldkist Rd.	660	2,200	2011 (13 years old)



Well #10 – Constructed 2011





Well #10 – Constructed 2011





Statesboro's Drinking Water System

Statesboro's drinking water is stored in six (6) elevated storage tanks.

Tank Name	Address	Capacity (gallons)
Hill Street	Hill Street	150,000
Claude Howard	Park Avenue	250,000
Stadium	Malecki Drive	500,000
Gateway I	A.J. Riggs Road	500,000
Gateway II	J.C. Cannady Road	500,000
I-16 at Hwy 301	Rocky Road	1,000,000

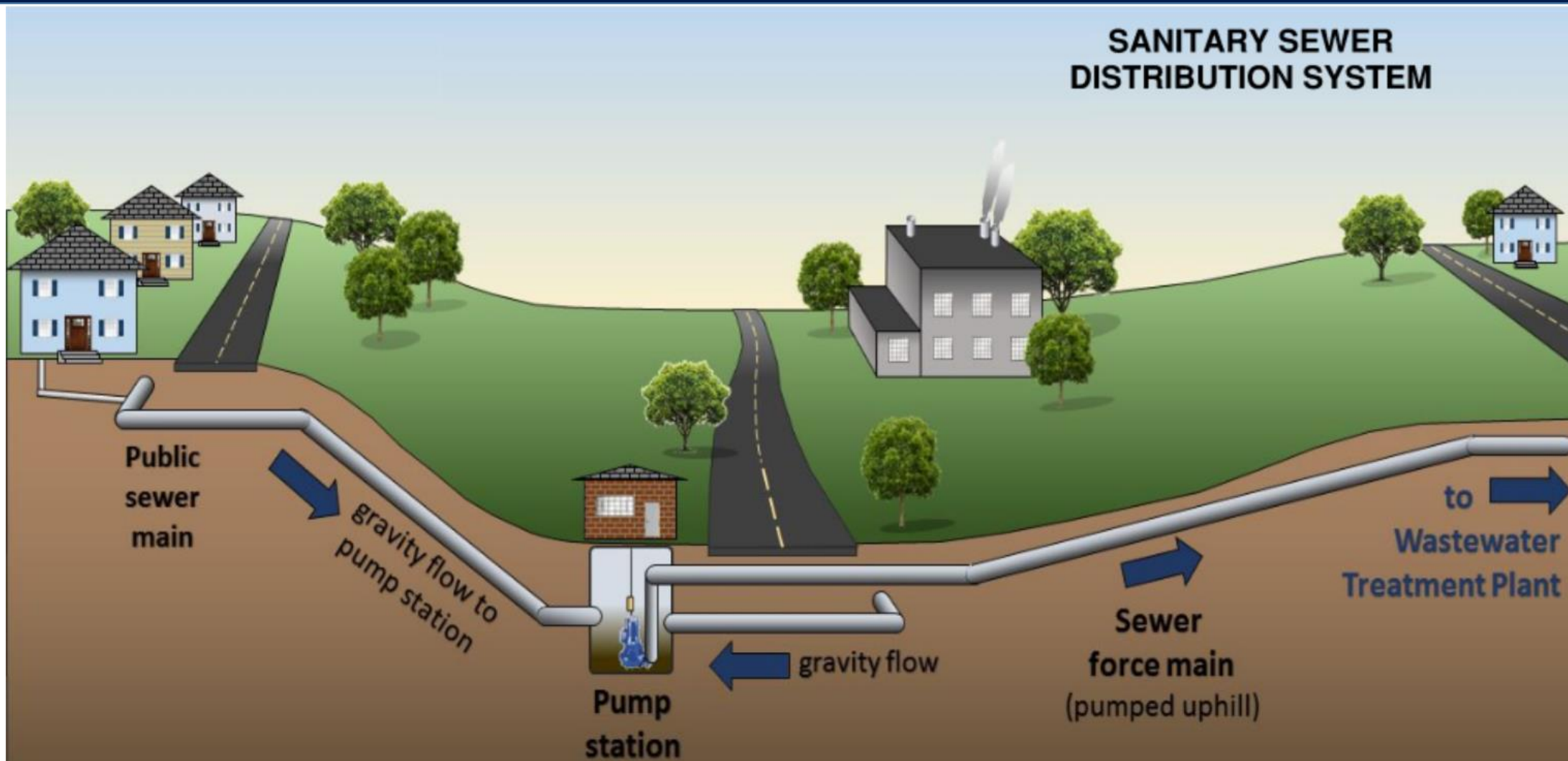


Statesboro Elevated Water Storage Tanks



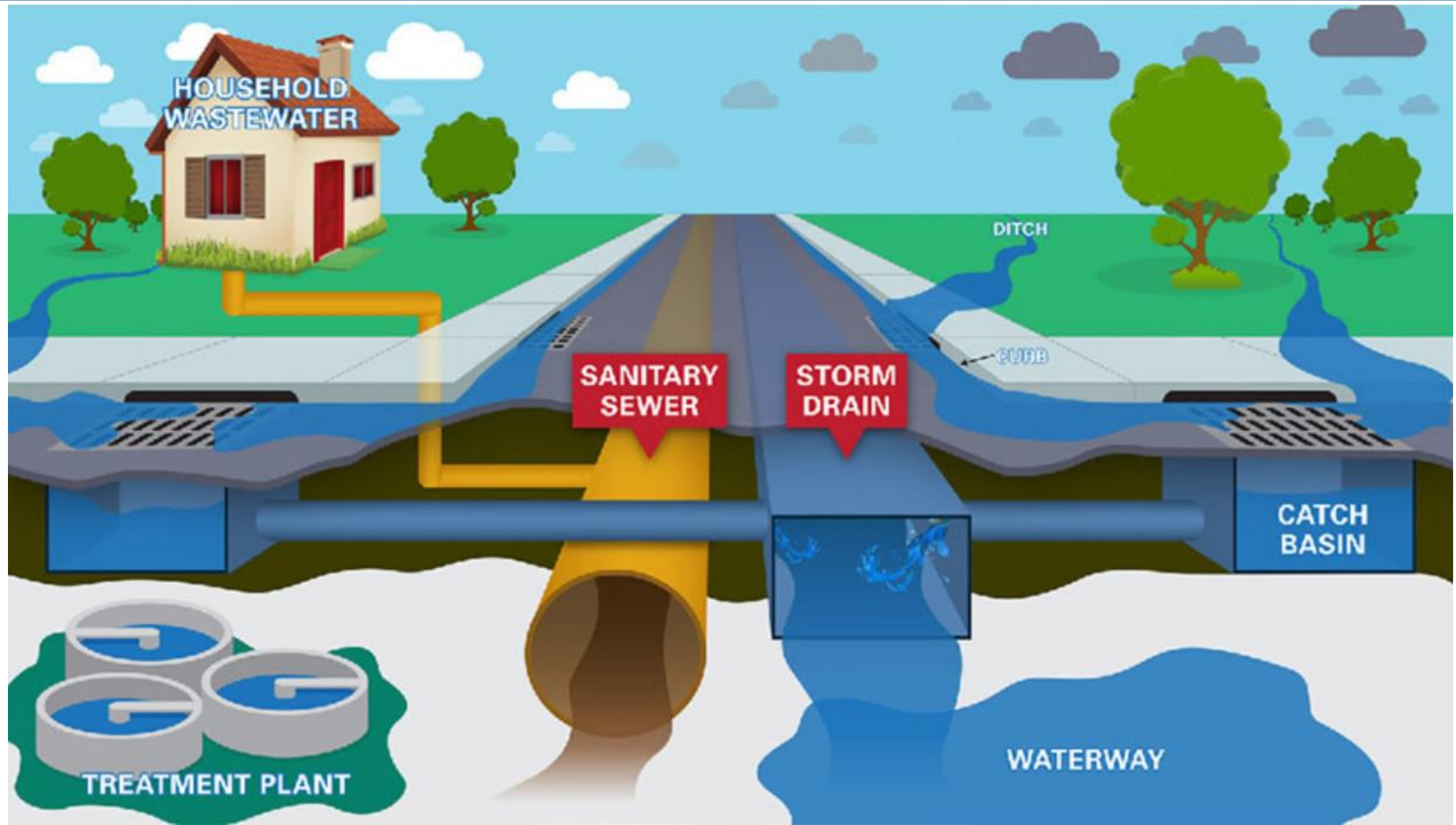


Statesboro's Sanitary Sewer System



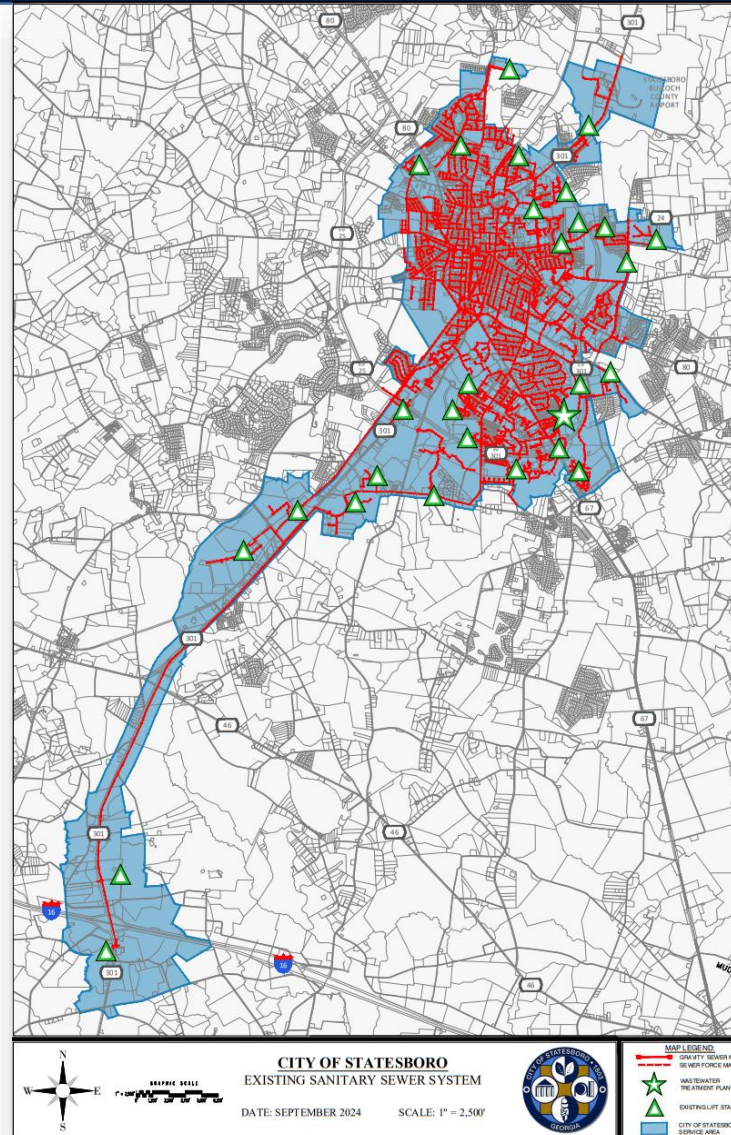


Statesboro's Sanitary Sewer System





Existing Sanitary Sewer System





Statesboro's WWTP

Statesboro's WWTP operates under a National Pollutant Discharge Elimination System (NPDES) permit issued through the State of Georgia Environmental Protection Division. This permit contains many contaminant level limitations that the WWTP must meet on a weekly and monthly basis in order to discharge into "Waters of the State" (Little Lotts Creek). As with the Groundwater Permit, the NPDES Permit also limits the amount of flow that can be pumped and discharged.

NPDES Permit – Flow Limitations

	Permit Limit	FY2024 Actual
Weekly Average	12.5 MGD	11.07 MGD (highest)
Monthly Average	10 MGD	8.29 MGD (highest)
Yearly Average		5.18 MGD



Statesboro's Sanitary Sewer System

The City of Statesboro's sewer system is comprised of 209 miles of sewer collection pipes (gravity and force mains), 6,379 manholes, twenty-seven (27) sewage pump stations, and the Wastewater Treatment Plant (WWTP).



Sewage Pump Station





City of Statesboro WWTP





History of Statesboro WWTP

- The Briarwood Road Wastewater Treatment Plant was originally constructed in the 1950's.
- In 1978, the WWTP was upgraded to expand it's treatment capacity and efficiency by adding a conventional activated sludge system.
- Throughout the 1990's, the WWTP was upgraded several times, expanding the treatment capacity from 5 MGD to 10 MGD. Disinfection was also converted from chlorine to ultraviolet disinfection during this time.
- In the years since the last major upgrade, many of the original operating systems have been replaced, such as the dewatering belt presses in 2001, effluent filters in 2013, and a more efficient UV system in 2019.

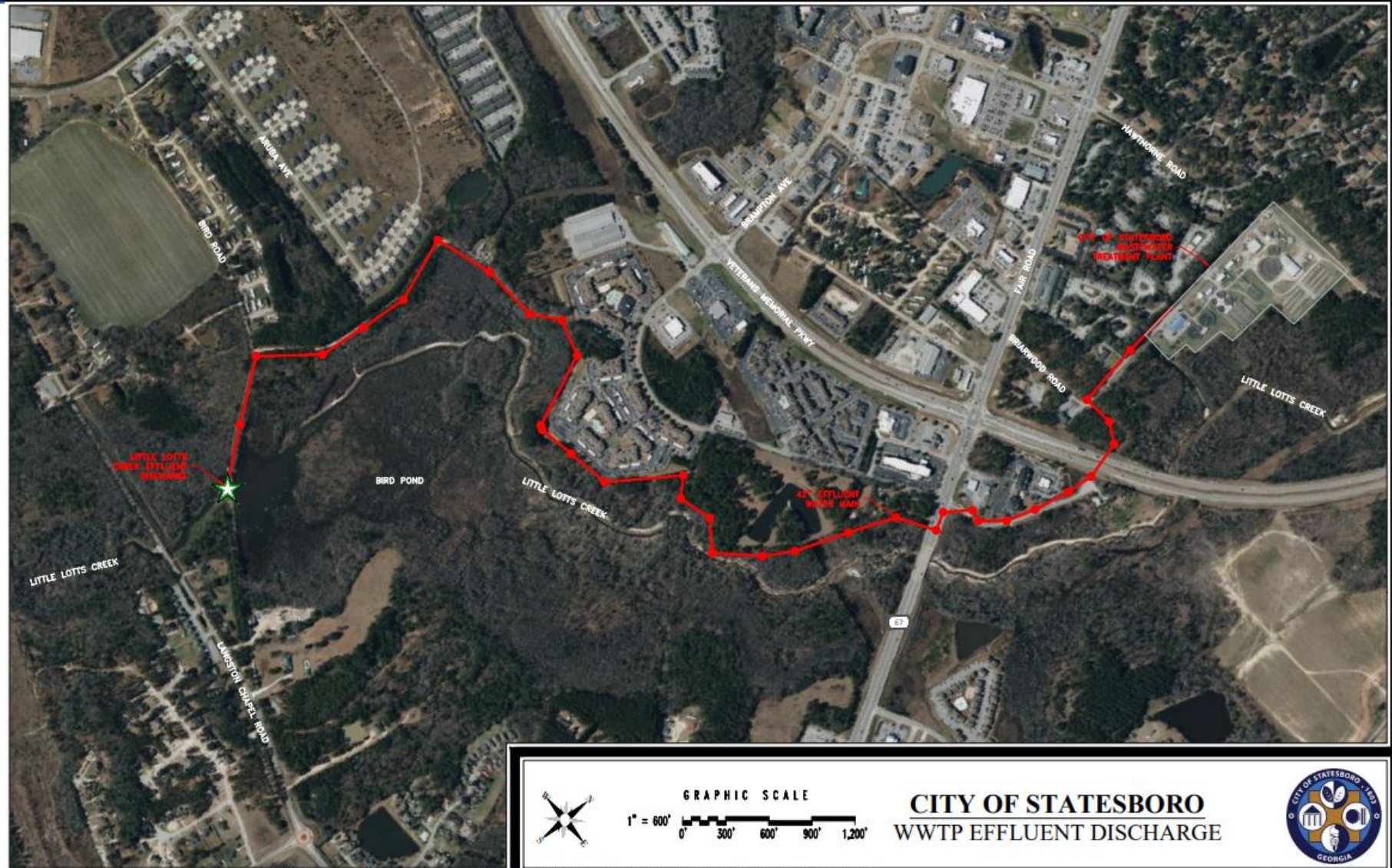


WWTP Process Diagram





WWTP Effluent Discharge





Questions?

City Strategic Plan



Background

- In 2017 the City of Statesboro undertook a Strategic Planning Process which was finalized in 2018.
- Ross & Associates, in collaboration with Amec-Foster-Wheeler served as the consultant for this plan.
- The plan was developed as a 5 year plan, and was drafted with the intent of guiding short term projects listed in the Capital Improvement Program.



Plan Comparison

Strategic Plan

- The Strategic Plan outlines goals and supporting strategies for local needs.
- Recommends potential revenue opportunities.
- Guides the development of the Capital Improvements Program.
- Not a required plan.

Comprehensive Plan

- The Comprehensive Plan addresses long-term growth within the City.
- Recommends a mix of potential long-term projects.
- Broadly identifies development areas and types.
- Required to maintain Qualified Local Government status.



2018 Strategic Initiatives

- TSPLOST Approval and Implementation
- Blue Mile Streetscape Improvement
- Salary & Staffing Survey
- Joint Economic Assessment Survey for Business Retention
- Neighborhood Development Initiative



Procedure for Completion

- Staff is requesting to contract with the Coastal Regional Commission in order to complete a revised 2025-2030 Strategic Plan.
- The contract will be for \$25,800.
- The Coastal Regional Commission will provide an introductory presentation to the Council when the project begins.
- The performance period for the plan will be from January 1, 2025 until June 30, 2025.



Scope of Services

1. Inventory and Assessment

- a. Background data from 2010, 2020, and other recent available data for the City.
- b. Existing Plan Compliance

2. Public Participation

- a. Public Survey
- b. Two Public Meetings



Scope of Services

3. Implementation

- a. Development of Key Strategies
- b. Financing Alternatives

4. Final Deliverables

- a. Executive Summary
- b. Implementation Strategies



Questions?

