

2023 Citizens Academy Tyrone 101 - Public Works

We appreciate your time and interest in the Public Works Department. Our purpose is to improve the quality of life for the citizens and visitors of Tyrone by maintaining and improving the Town's infrastructure and facilities in a sustainable manner.



Public Works

What is Public Works

- ▶ According to the American Public Works Association, Public Works is the combination of physical assets, management practices, policies, and personnel necessary for government to provide and sustain structures and services essential to the welfare and acceptable quality of life for its citizens.
- ▶ Level Of Service (LOS) – Level of service is a determined work standard that is obtainable and sustainable to perform the work. The higher the LOS, the higher the cost; therefore, the more tax revenue needed to sustain the staff and construction cost. This means higher taxation to sustain the high level of service.



**Public
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TRANSPORTATION

ROADS – SIDEWALKS - MULTI-USE PATHS



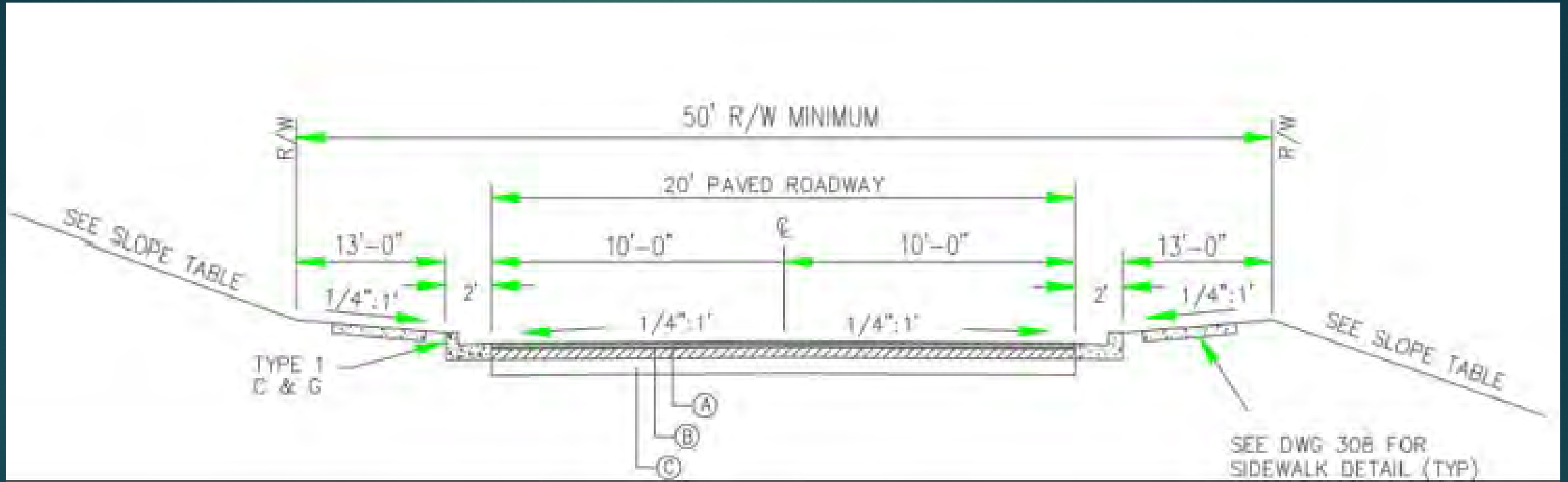
Funding Sources

- ▶ Local Maintenance Improvement Grant (LMIG)
 - ❖ For road maintenance only in Town owned Rights-of-way
 - ❖ 70/30 grant from GDOT
 - ❖ Based on miles of road owned by the Town
 - ❖ Approximately \$120,000 per year
- State Transportation Improvement Program (STIP)
 - Local Assistance Program (LAP)
 - ❖ 80/20 grant from GDOT
 - ❖ Applies to higher volume roads in the Town that meet certain GDOT classifications. Can also apply to Local Community Initiative (LCI) projects
 - ❖ Recently completed: Tyrone Road – Upcoming: Dogwood Trail
- ❖ SPLOST and General Fund
 - ❖ Used for Capital Improvement Projects (CIP) and general maintenance. Recent SPLOST CIP's - Briarwood Rd & Farr Rd



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Right-of-Way



MAJOR SUB. DIV. STREETS & ENTRANCE ROADS

PAVEMENT MATERIAL SCHEDULE

- | | |
|-----|---|
| (A) | ASPH. CONC. 9.5 mm SUPERPAVE, 165 lb/yd ² (1-1/2") |
| (B) | ASPH. CONC. 19 mm SUPERPAVE, 220 lb/yd ² (2") |
| (C) | GRADED AGGREGATE BASE (CRUSHER RUN) 8" |



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What is PCI and why do we care?

- ▶ Pavement Condition Index (PCI):
 - ▶ Based on type of road distress, area and severity of the distress a value is assigned to the road section
 - ▶ Some examples of distress are Alligator Cracking, Shoving, Rutting, Longitudinal Cracking, and Traverse Cracking
 - ▶ This is performed by a third-party inspection service

PCI for PAVED ROADS

- ❖ Very Good -Excellent 100-85
- ❖ Good 84-70
- ❖ Fair (At Risk) 69-50
- ❖ Poor 49-25
- ❖ Very Poor (Failed) 0-24



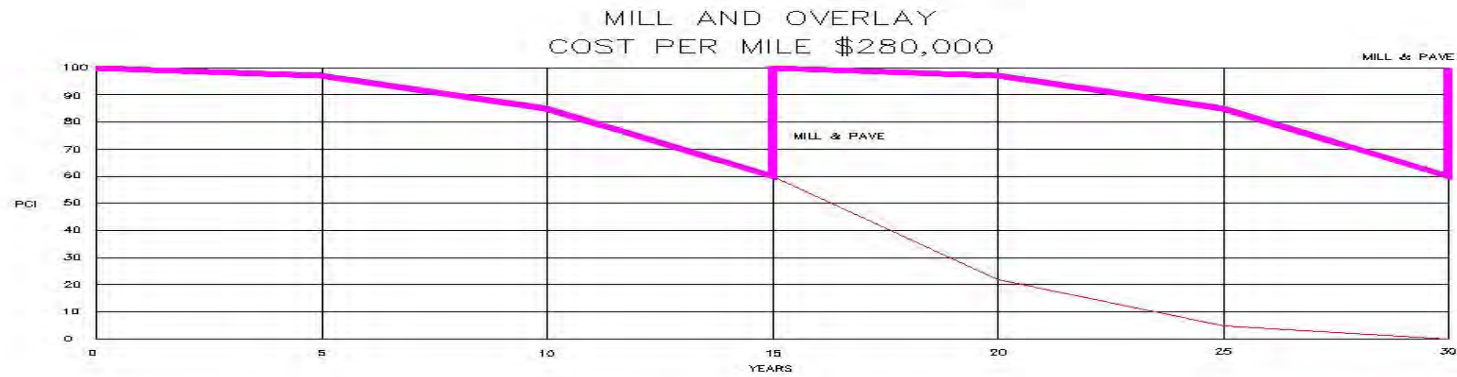
**Public
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PCI Study Example

	A	B	C	D	E	F	G	H	I
1	SECTIONID	Street Name	From	To	Length	Width	Area	Surface	2021_PCI
2	4831	ADAMS LAKE DR	ASHMERE CT	MAPLE SHADE DR	932.2	24	22372.8	AC	79
3	4712	ALISON WAY	ARROWOOD RD	END	713.9	30	21417	AC	57.5
4	9945	ANNABELLE LN	ELBOW	CUL-DE-SAC	755.7	22	16625.4	AC	100
5	9950	ANNABELLE LN	DEAN DR	ELBOW	749.3	22	16484.6	AC	100
6	4991	ANTHONY DR	WHITNEY CT	MICHAEL RD	1095.8	22	24107.6	AC	86.5
7	4994	ANTHONY DR	MICHAEL RD	END	625.2	24	15004.8	AC	93.5
8	4068	ANTHONY DR	TYRONE RD	WHITNEY CT	620.5	22	13651	AC	94.8
9	4967	ARABIAN	CLYDESDALE CT	CHAPARRAL TRC	475.5	28	13314	AC	78.4
10	4971	ARABIAN	CHAPARRAL TRC	END	273.7	28	7663.6	AC	90.6
11	4775	ARBORCREST CT	BRUNSWICK DR	END	189.2	20	3784	AC	82.2
12	4714	ARROWOOD RD	NORTHWOOD RD	ALISON WAY	323	22	7106	AC	84
13	5016	ARROWOOD RD	BRENTWOOD RD	SENOIA RD	479.7	36	17269.2	AC	94.5
14	4691	ARROWOOD RD	ALISON WAY	BRENTWOOD RD	869.7	22	19133.4	AC	95.5
15	5061	ARROWOOD RD	SPENCER LN	VALLEY VIEW DR	812.1	26	21114.6	AC	100
16	5027	ASHFORD DR	PENDLETON TR	END	227.4	24	5457.6	AC	100
17	4904	ASHLAND TR	CRIMSON RDG	AUTUMN TRC	930.4	20	18608	AC	51
18	4884	ASHLAND TR	AUTUMN TRC	MCDADE ST	499.9	20	9998	AC	63.5
19	4907	ASHLAND TR	REGAL OAK CT	CRIMSON RDG	3552.3	20	71046	AC	72.6
20	4911	ASHLAND TR	CASTLEWOOD RD	REGAL OAK CT	520.7	24	12496.8	AC	86
21	4690	ASHMERE CT	ASHCOT DR	END	239	24	5736	AC	78.5
22	4829	ASHMERE CT	ADAMS LAKE DR	END	1218.7	24	29248.8	AC	79
23	4689	ASHMERE CT	ADAMS LAKE DR	ASHCOT DR	554.2	24	13300.8	AC	80
24	4892	AUTUMN TRC	ASHLAND TR	END	493.1	16	7889.6	AC	90.6



Public Works



Hypothetical road cycle
and cost based on 2018
pricing

Transportation Frequently Asked Questions

1. When will my road be paved?
 1. Answer: when the PCI for your road is low enough to warrant it being resurfaced, it will then be incorporated into the paving schedule.
2. How do I report a pothole, sign down, or other transportation issue?
 1. Answer: Use one of the following:
 1. Visit or call Town Hall at 770-487-4038 ,
 2. Email Scott Langford or Mitch Bowman, or
 3. Go to the Town website and click on "Contact Us" and then click on "Contact Us Form"
3. How can I find more information about a project?
 1. Answer: Visit the Town website and click on "I want to". Then click on "See the Status of Town Projects".



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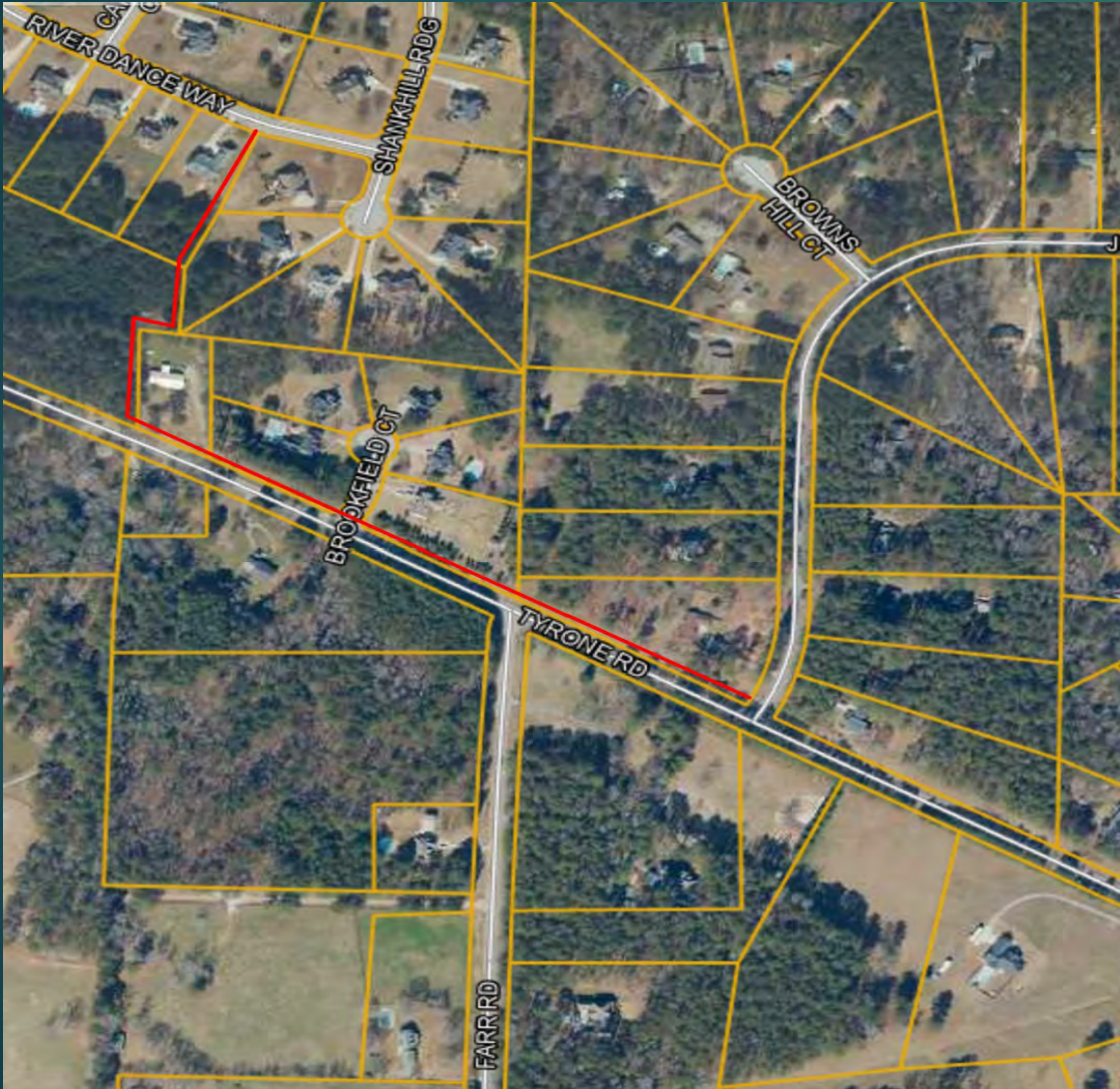
Sidewalks

- ▶ Sidewalk repairs are made to sections that propose a trip hazard or have structural issues.
- ▶ Projects for sidewalks are designed inhouse and bid out to contractors.
- ▶ Completed Sidewalk Repairs in last 4 years:
 - ▶ Farr Rd,
 - ▶ River Oaks SD,
 - ▶ Estates SD,
 - ▶ Southampton SD,
 - ▶ Tyrone Acres SD,
 - ▶ Millbrook SD,
 - ▶ Dublin Downs SD,
 - ▶ Berry Hill SD, and
 - ▶ Cathy Estates
- ▶ Underway this year Tullamore SD, Maple Shade SD, Ashpark SD, Laurel Forest SD, Farr Road, and 2 sections on Stonewyck Drive.



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Multi-use Paths (MUP's)

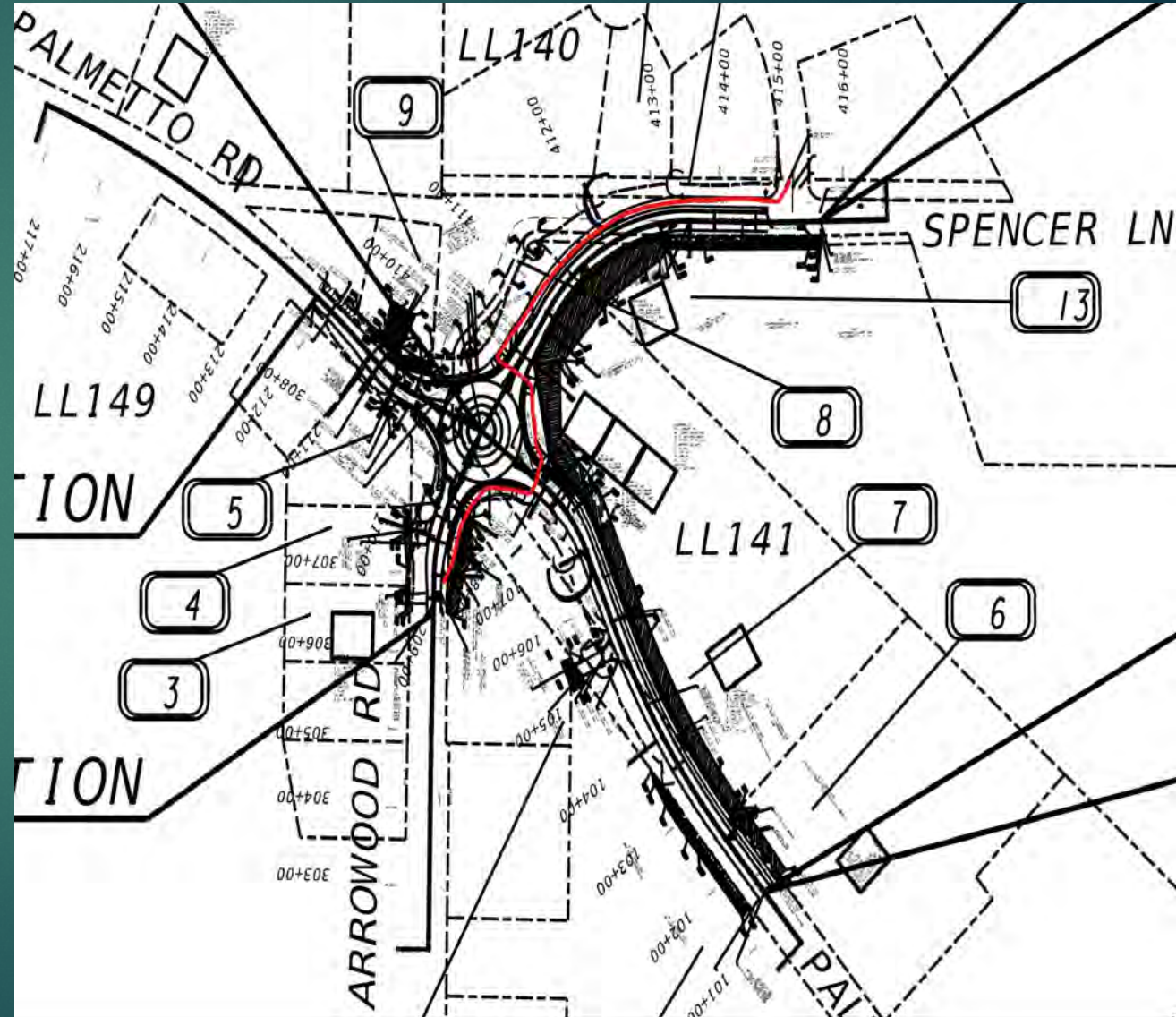
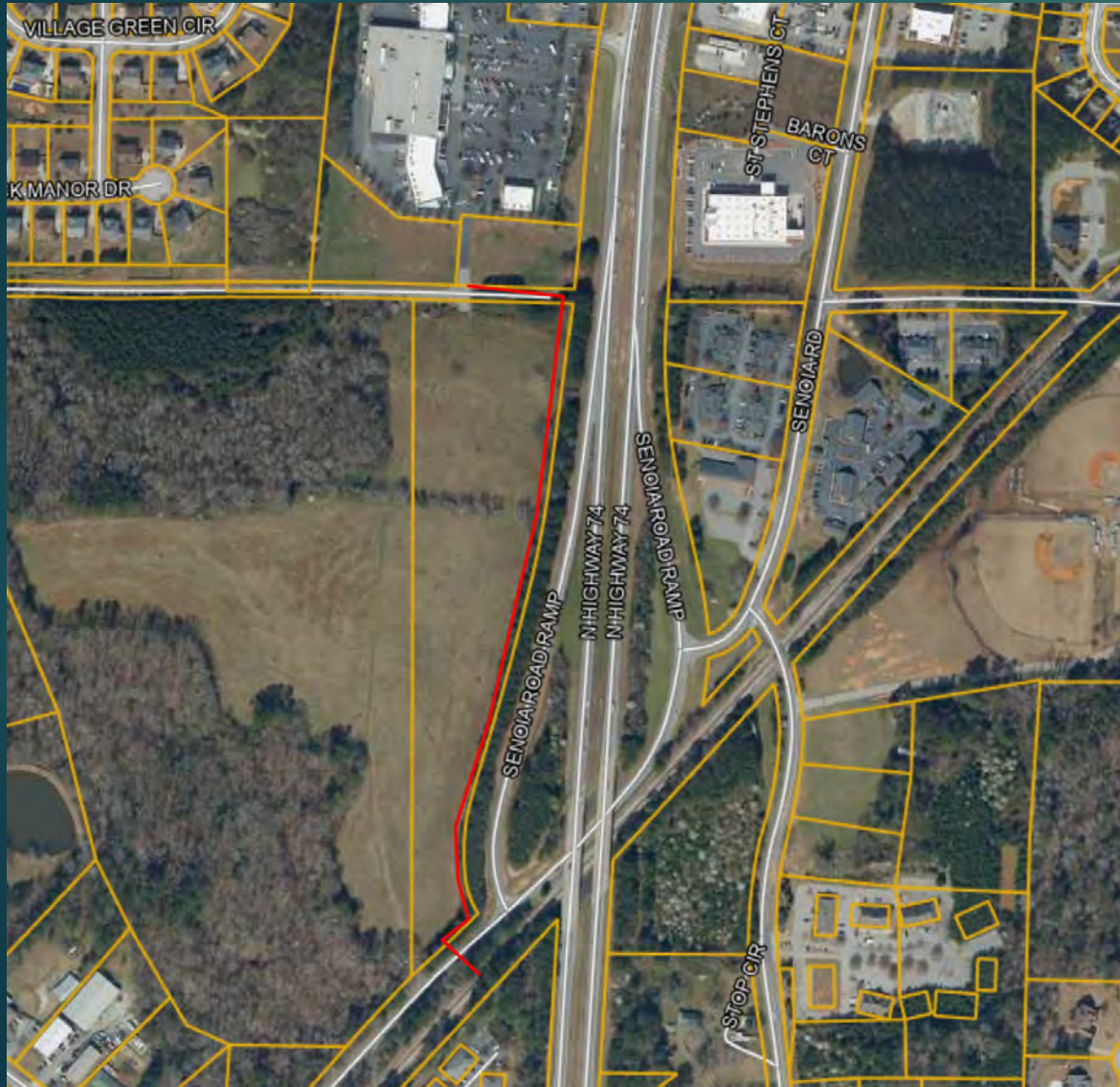


- Tyrone Road MUP is under construction.



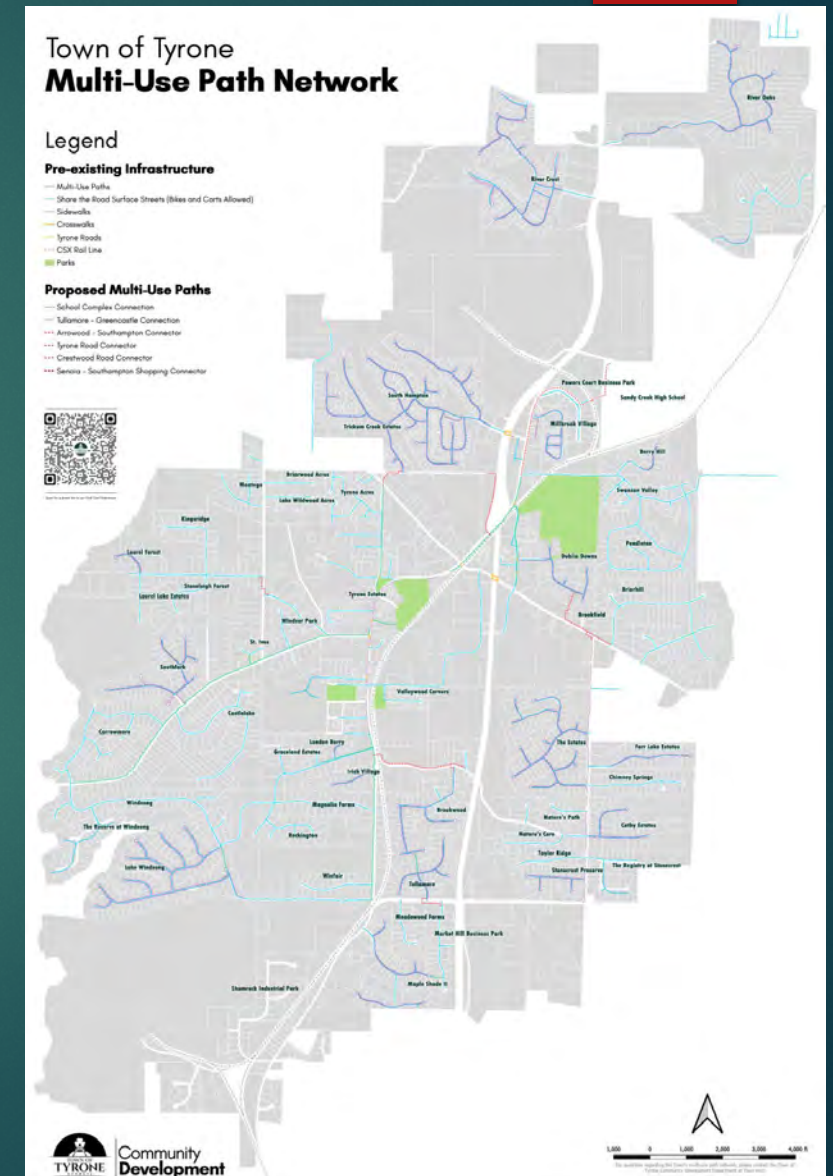
**Public
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Senoia-Spencer MUP & Roundabout MUP



Future Multi-Use Paths

- ▶ Laurelwood Road Connector,
 - ▶ Tullamore/Greencastle Connector,
 - ▶ East Crestwood, and
 - ▶ Sandy Creek HS Connector
-
- ▶ See the Town's Planning and Zoning webpage for the map of the MUP's or see the map hanging on the wall in the Town Hall lobby.



Traffic Calming

RAISED CROSSWALK



TRAFFIC CIRCLE



SPEED HUMP



SPEED CUSHION



CHICANES



CURB EXTENSION



- ▶ Traffic Calming is primarily handled in two ways: passive or physical. Physical measures include speed humps/tables, circles, chicanes and other methods that cause a vehicle to slow down without losing line of sight or safety. Passive measures such as signage and radar signs are used to gain attention and remind drivers to drive safely.



Traffic Control Devices

NYC Traffic Light
1922 – 5th Ave



Signage and striping

- ▶ MUTCD – Manual on Uniform Traffic Control Devices is the standard reference used in many states. It has specific Warrants for determine the appropriateness of signs and their placement.
- ▶ Reflectivity is a safety issue. The Town's new signage and striping meets high reflectivity standards to improve safety. Signage and striping is evaluated by the Town at night to determine which signs or stripes need to be replaced.
- ▶ Question: On a residential road there is a T - intersection with a road that ends in a cul-de-sac. People are speeding on the road and a property owner wants stop signs at the intersection to make the cars slow down and stop. Is this a good way to reduce speed?
 - ▶ No. The MUTCD specifically states that stops signs should not be used to control speed on roads.



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Which Stop sign is most visible at night?

1

2

3

4

5

A

B

C



Here they are at night with headlights on them.



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Do You Know?

How many miles of paved roads does the Town own?

- ▶ 67 Centerline Miles of Paved Roads

How many stops signs are in the Town's Rights-of-way?

- ▶ There are 271 Stop Signs in the Town of Tyrone

Public Works Maintenance

PRESENTER: MITCH BOWMAN

PUBLIC WORKS MAINTENANCE SUPERVISOR



**Public
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What do we do all day?????

Locates

Clearing

Signs

Janitorial

Parks Duties/Special
Events

Roads/Cart Paths

Drainage

Roadkill

Sidewalks

Building and Equipment
Maintenance/Admin

Facilities/Park Maintenance

- ▶ Town Hall
- ▶ Tyrone Library
- ▶ Tyrone Recreation Center
- ▶ Shamrock Park Restrooms
- ▶ Redwine Park Restrooms
- ▶ Shamrock Park
- ▶ Handley Park
- ▶ Fabon Brown/Dog Park

Daily Duties

- ▶ Town Hall(31 trash cans, 12 toilets/urinals, 9 sinks, SVM)
- ▶ Tyrone Library(16 trash cans, 8 toilets/urinals, 6 sinks. SVM)
- ▶ Tyrone Recreation Center(6 trash cans, 8 toilets/urinals, 4 sinks, SVM)
- ▶ Shamrock Park Restrooms(2 trash cans, 4 toilets/urinals, 2 sinks SM)
- ▶ Redwine Park Restrooms(2 trash cans, 4 toilets/urinals, 2 sinks, SM)
- ▶ Shamrock Park(Trash, DWB, Pavilion)
- ▶ Handley Park(Trash, DWB, Pavilion)
- ▶ Fabon Brown/Dog Park(Trash and DWB)
- ▶ Redwine Park(Trash)

Line of Sight Improvements



TPW 2021 vs 2022



2021

- ▶ Locates **N/A**
- ▶ Clearing 316
- ▶ Signs 82
- ▶ Janitorial 932
- ▶ Parks/Events 317
- ▶ Roads/Cart Path 149
- ▶ Drainage 240
- ▶ Roadkill 98
- ▶ Sidewalks N/A
- ▶ Admin/Equip/Bldg N/A

2022

- ▶ Locates 156
- ▶ Clearing 601 +
- ▶ Signs 85 =
- ▶ Janitorial 567 -
- ▶ Parks/Events 468 +
- ▶ Roads/Cart Path 231 +
- ▶ Drainage 267 =
- ▶ Roadkill 87 =
- ▶ Sidewalks 14
- ▶ Admin/Equip/Bldg 301

January-July 2023

2022

- ▶ Locates 156
- ▶ Clearing 601 +
- ▶ Signs 85 =
- ▶ Janitorial 567 -
- ▶ Parks/Events 468 +
- ▶ Roads/Cart Path 231 +
- ▶ Drainage 267 =
- ▶ Roadkill 87 =
- ▶ Sidewalks 14
- ▶ Admin/Equip/Bldg 301

2023 so far

- ▶ Locates 52
- ▶ Clearing 356
- ▶ Signs 28
- ▶ Janitorial 311
- ▶ Parks/Events 272
- ▶ Roads/Cart Path 154
- ▶ Drainage 195
- ▶ Roadkill 34
- ▶ Sidewalks 14
- ▶ Admin/Equip/Bldg 319

Magnolia Curbing



Farr Road Sidewalk



Litter Report

2022

- ▶ 429 bags of Litter
- ▶ 867 Bags of Dog Waste

2023

- ▶ 343 Bags of Litter
- ▶ 455 Bags of Dog Waste

Roadkill Report

2021

- ▶ Deer 69
- ▶ Armadillos 20
- ▶ Possum 15
 - ▶ Fox 4
- ▶ Coyote 4

2022

- ▶ Deer 66
- ▶ Armadillos 14
- ▶ Possum 7
 - ▶ Fox 2
- ▶ Coyote 2

Jan-July Roadkill

- ▶ Deer 21
- ▶ Armadillos 5
- ▶ Possum 8
- ▶ Fox 1
- ▶ Coyote 1

Castlewood Cart path



Valleywood Road



Pendleton Drain Ditch



Shamrock Park



Infrastructure Repairs

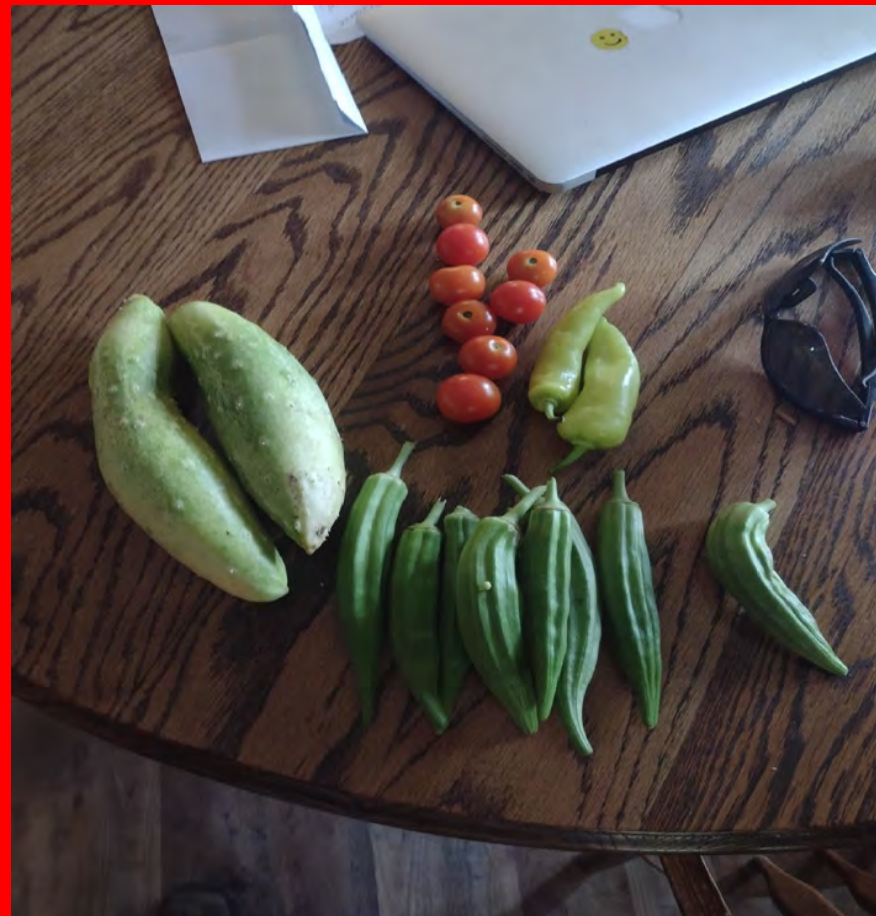
Castlewood Cart Path



The Estates



Community Garden



Questions????



Public Works Sewer & Utilities

PRESENTER: SCOTT LANGFORD, PE
PUBLIC WORKS DIRECTOR & TOWN ENGINEER



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Sewer

IT'S A DIRTY JOB, BUT SOMEONE HAS TO DO IT.



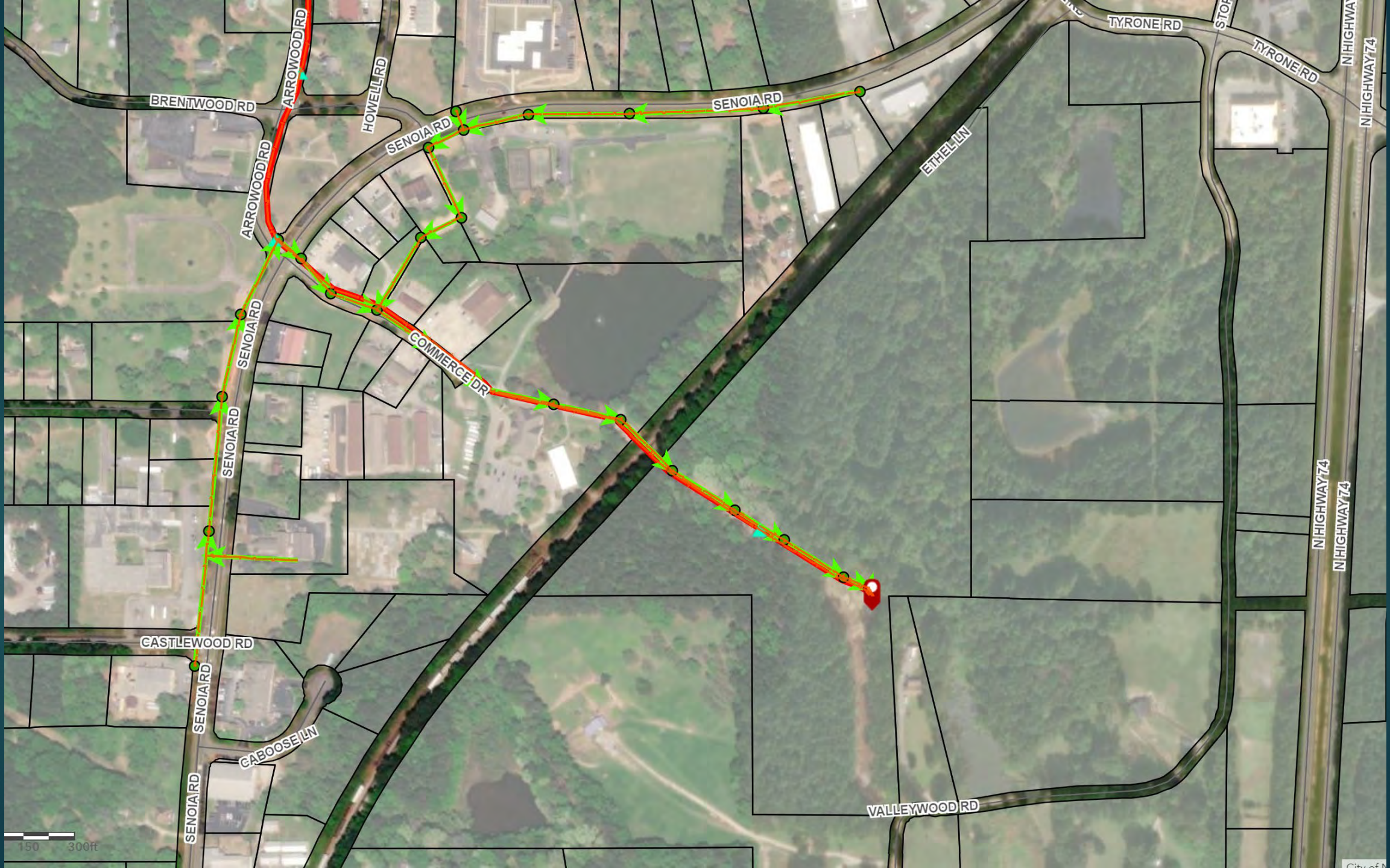
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Sewerage System

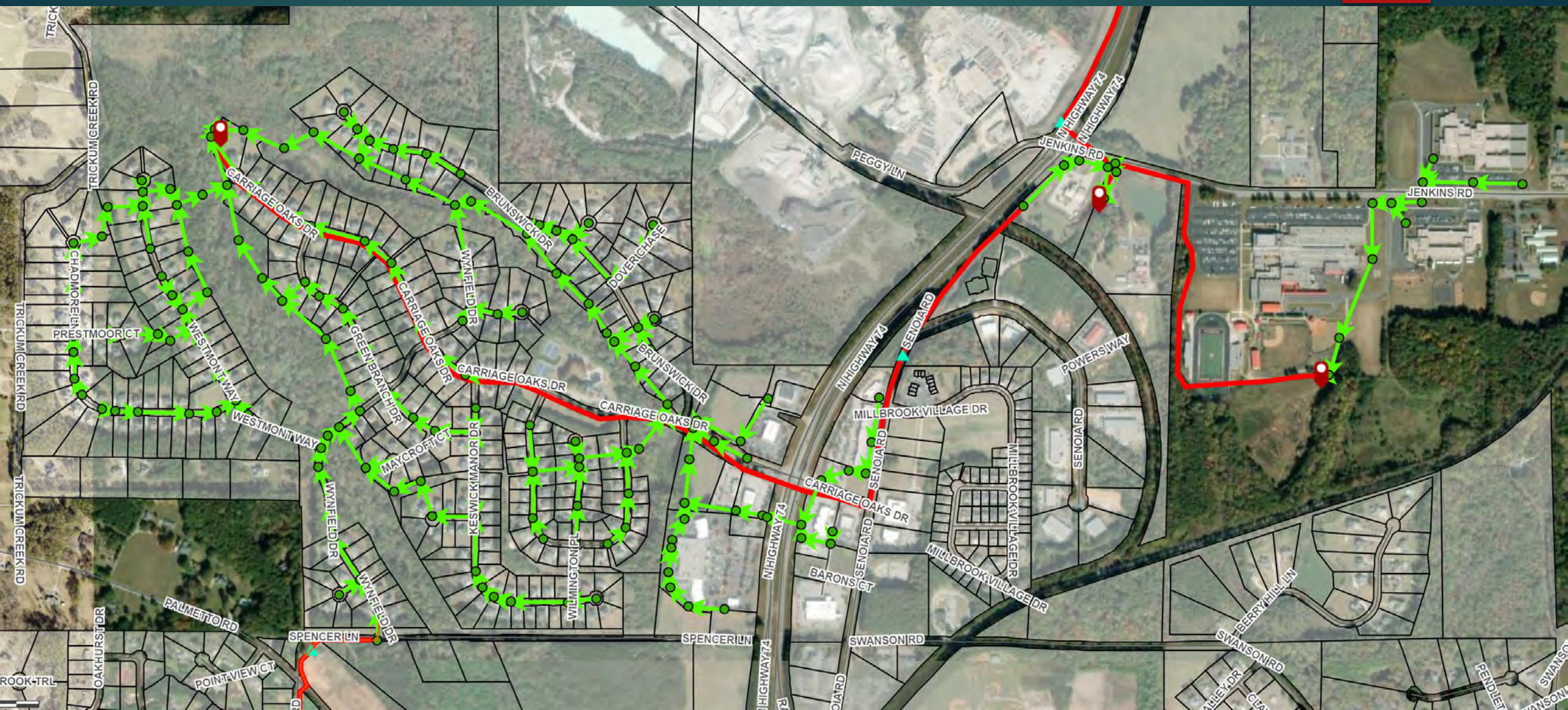
1. Funded by the Sewer Enterprise Fund and by SPLOST.
2. Sewage is collected in a gravity system that flows to one of the five lift stations in town. Coweta County WASA assists the Town with maintenance and operations of the lift stations. From the lift stations, sewage is eventually pumped to the Fulton County and then to Camp Creek wastewater treatment facility for treatment and discharge.
3. The Town purchases capacity from Fulton County and Fairburn. This capacity limits the Town to how much sewer service it can provide. Capacity purchase is very expensive and takes a long time to acquire.
4. The sewer line that runs from your home to the edge of your property is called a service line. The service line is the property owner's responsibility to maintain.

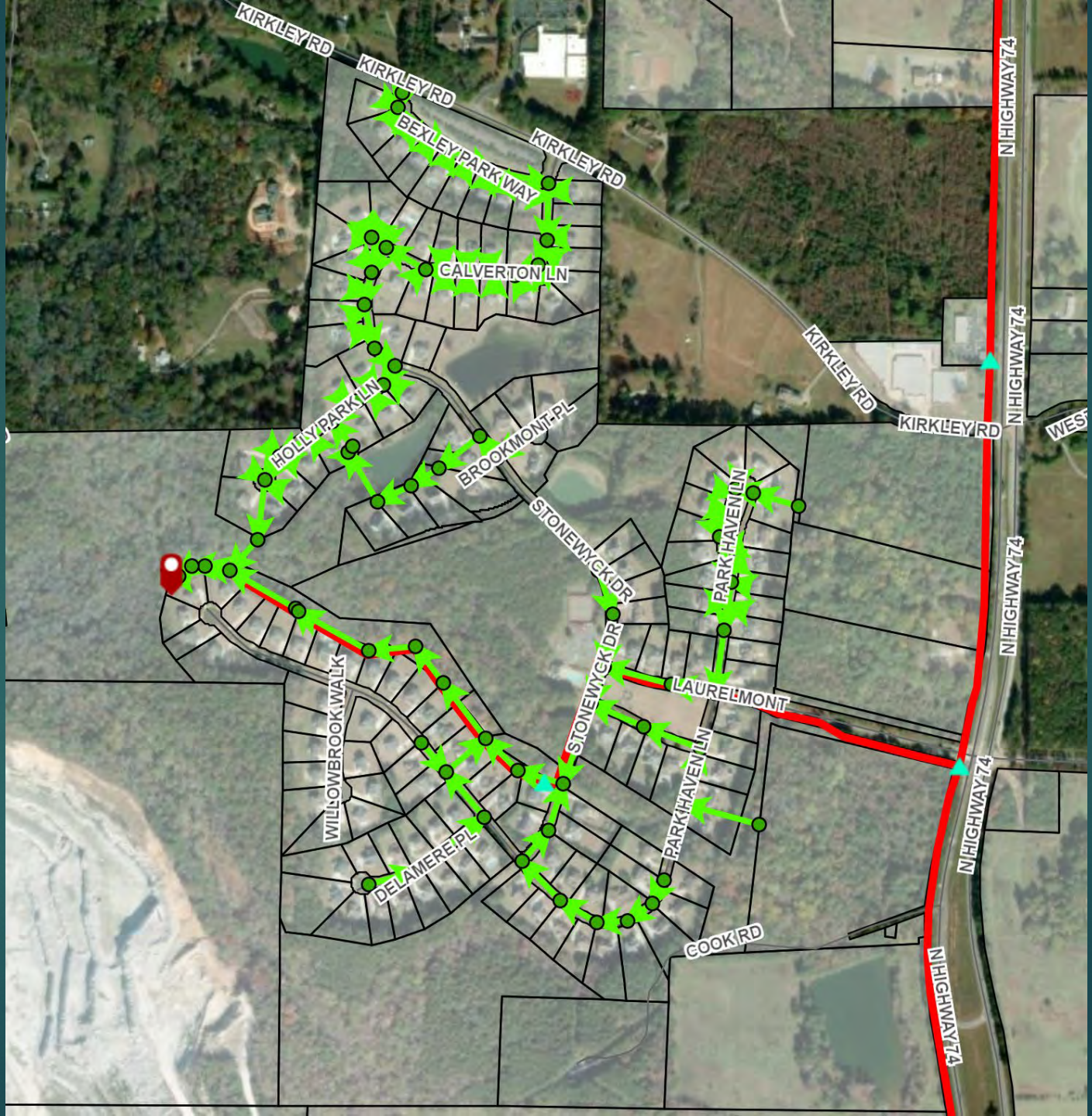


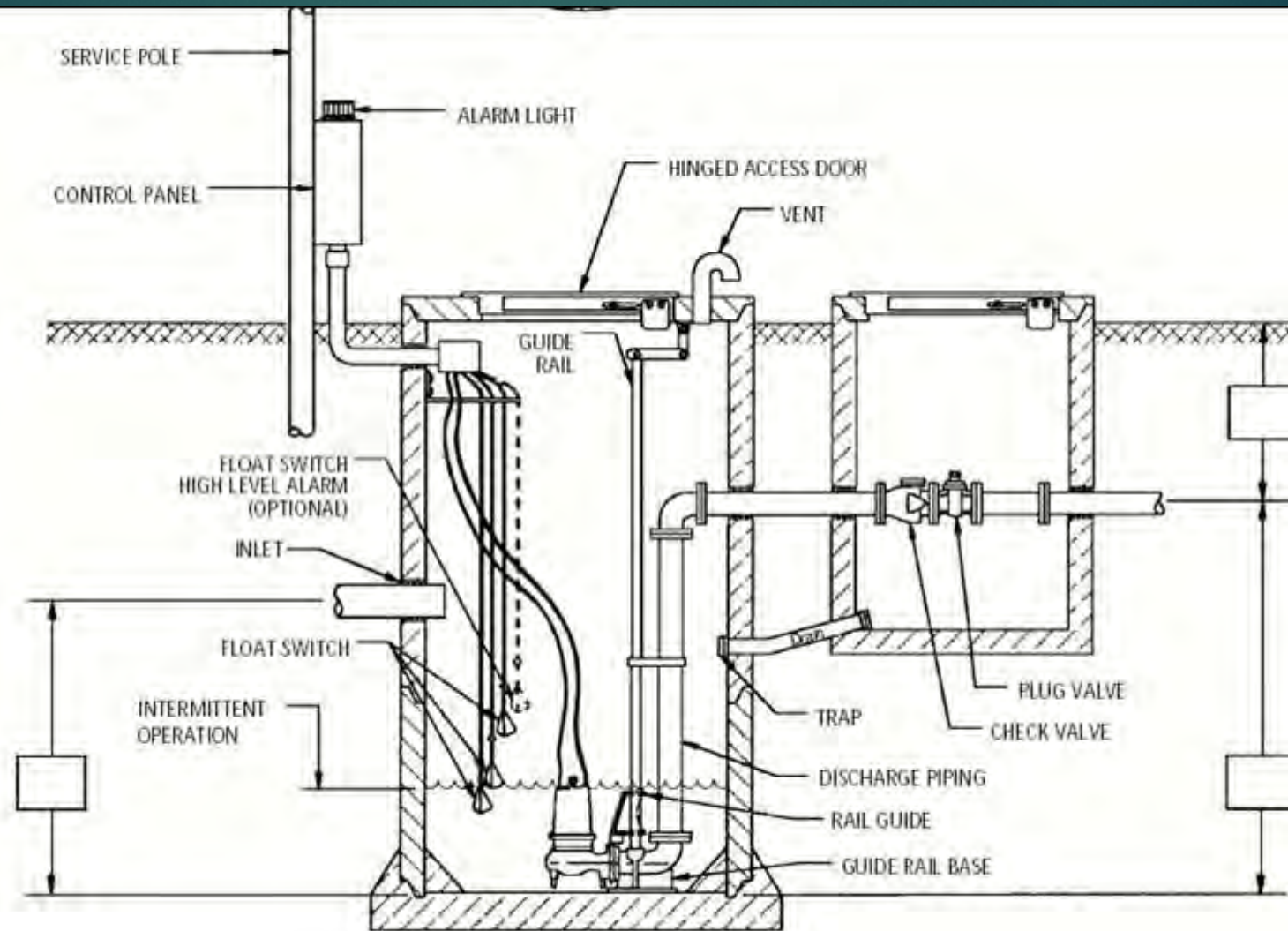
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150 300ft







Sewer Rates

- ▶ Sewer Rates are based off the amount of water you use as determined by the water meter provided by Fayette County Water System.
- ▶ Even though water is not always going down your drain into the system such as filling a swimming pool or a leak, that does not change your rate calculation with the Town.
- ▶ Sewer Rates will increase in proportion to the Town's sewer rate increase by Fulton County.



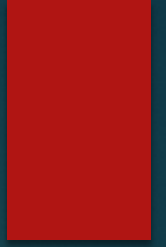
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How to reduce your sewer bill to the Town

- ▶ Make sure you do not have leaks. Dripping faucets and leaking toilets can increase your bill.
- ▶ Use low flow toilets, showers, and sink aerators.
- ▶ Do not over water your lawns. Over watering your grass will increase your water and sewer bills and may cause fungus and other issues with your grass.
- ▶ Talk with your water supplier about the cost of putting your irrigation system on a separate meter. This does not always save you money unless you water a lot.



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Sewer Maintenance Costs

- ▶ Sewer costs goes up quickly when you have clogs in your system. You own the sewer service line going from your home/business to the Town's right-of-way. Often fats, oils and grease (FOG) can collect in your line and choke down your flow until it clogs.
- ▶ In addition, tree and shrub roots get into the system. Roots catch FOG and solids until it clogs the line.
- ▶ Wipes are another major problem with clogs. If you need to use packaged wipes, make sure they are flushable. If not, the wipes will remain strong and do not give way in your plumbing. These wipes can also clog lift station pumps which costs tens of thousands of dollars. This additional cost could mean increases to your rates.



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Utilities

In an emergency, always call 911 first.

- ▶ Sewer – Town of Tyrone
- ▶ Septic System – Fayette County Public Health Department
- ▶ Electrical Power – Coweta Fayette EMC or Georgia Power
- ▶ Gas – Atlanta Gas and Light (AGL)
- ▶ Large Gas Main - Williams Gas Pipeline Transco (3-year mowing cycle)
- ▶ Water – Fayette County Water System
- ▶ Solid Waste/Garbage – AmWaste
- ▶ Streetlights – Coweta Fayette EMC or Town of Tyrone or Private
- ▶ Railroad – CSX
- ▶ SR-74 – GDOT for road issue, signage, or traffic signals, dead animals, etc.
- ▶ Underground Utility Locates – Call 811



**Public
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Engineering

PRESENTER: SCOTT LANGFORD, PE
PUBLIC WORKS DIRECTOR & TOWN ENGINEER



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National Society of Professional Engineers

Code of Ethics Fundamentals

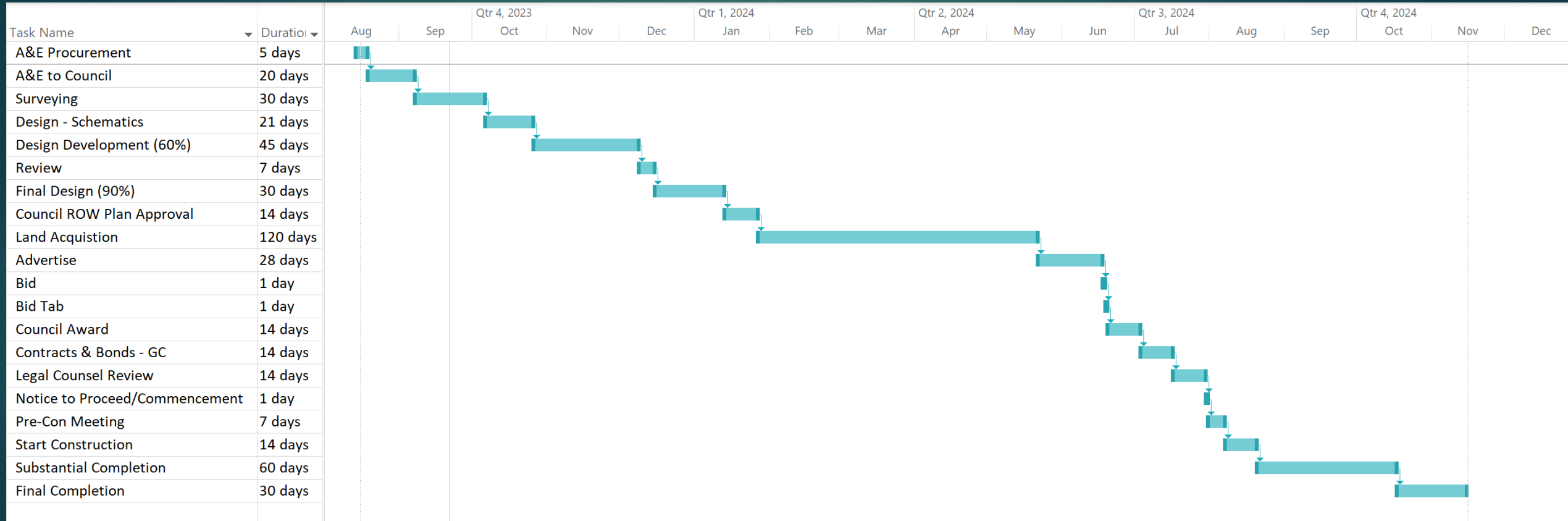
- ▶ Engineers, in the fulfillment of their professional duties, shall:
 - ▶ Hold paramount the safety, health, and welfare of the public.
 - ▶ Perform services only in areas of their competence.
 - ▶ Issue public statements only in an objective and truthful manner.
 - ▶ Act for each employer or client as faithful agents or trustees.
 - ▶ Avoid deceptive acts.
 - ▶ Conduct themselves honorably, responsibly, ethically, and lawfully so as to enhance the honor, reputation, and usefulness of the profession.

Public Works Current Project List

9/22/2023

<u>2021 Project Number</u>	<u>Name of Project</u>	<u>Status</u>	<u>Funds</u>
PW-2021-13-04	Transportation Engineering Task Order 4 - Arrowood/Palmetto Roundabout	90% Design	2017 SPLOST
PW-2021-17	2021 Handley Park Restroom	90% Design	2017 SPLOST
PW-2021-18	2021 Tyrone Road Cart Path	Under Construction	GF
<u>2022 Project Number</u>	<u>Name of Project</u>	<u>Status</u>	<u>Funding</u>
PW-2022-04	Southampton Sanitary Sewer Manhole Stabilization	90% Design	Enterprise
PW-2022-08	Transportation Engr Task Order 5 - Traffic Study Swanson Road Share the Road	Design	2017 SPLOST
PW-2022-14	2022 Pole Barn Demo & PW Shed at Handley Park	Scoping	GF
<u>2023 Project Number</u>	<u>Name of Project</u>	<u>Status</u>	<u>Funding</u>
PW-2023-01	Transportation Engr Task Order 8 - 2023 Asphalt Resurfacing LMIG plus Task Order 2	Sub Complete	GF/LMIG
PW-2023-02	2023 Senoia Rd - Spencer Rd Multi-Use Path	Land Acq	GF
PW-2023-03	Dogwood Trail TIP/LAP Paving	Design	TIP-County
PW-2023-04	2023 Streetscape - 993 Senoia Road	90% Design	GF
PW-2023-06	2023 Culvert Replacement & Flushing	Land Acq	GF
PW-2023-07	2023 Shamrock Pond Improvements	Design	GF
PW-2023-10	881 Senoia Building Renovation	25% Design	GF
PW-2023-11	2023 Sewer Manhole Repair	Design	Enterprise
PW-2023-12	2023 Pavement Marking (Striping, RPM, Stop Bars, Crosswalks)	Under Construction	GF
PW-2023-16	Sewer PS3 Conversion to Natural Gas	Scoping	Enterprise
<u>2024 Project Number</u>	<u>Name of Project</u>	<u>Status</u>	<u>Funding</u>
PW-2024-01	2024 Asphalt Resurfacing (Task Order 9)	Design	GF/LMIG
PW-2024-02	Sewer Annual and Emergency Contracts	Design	Enterprise
PW-2024-03	2024 Sidewalk Repairs	Award	GF
PW-2024-04	2024 Recreation Admin Center Renovations (881 Senoia Rd)	Design	GF
PW-2024-05	2024 Garage (881 Senoia Road)	Design	GF
PW-2024-06	2024 MUP Laurelwood Connector MUP	Design	2023 SPLOST
PW-2024-07	2024 MUP Tullamore Greencastle Connector MUP	Design	2023 SPLOST
PW-2024-08	2024 MUP Sandy Creek High School MUP	Design	2023 SPLOST
PW-2024-09	2024 Industrial Park Emergency Access Road	Scoping	GF
PW-2024-10	2024 Maple Shade Dam Improvements	Design	2023 SPLOST
PW-2024-11	2024 Shamrock Park Dam Improvements	Design	2023 SPLOST
PW-2024-12	2024 Handley Park Dam Improvements	Design	2023 SPLOST
PW-2024-13	2024 Stormwater Infrastructure Repair - Culverts & Structures	Scoping	GF
PW-2024-14	2024 Downtown Parking (old PD/969)	Scoping	GF
PW-2024-15	2024 MUP East Crestwood Road (SPLOST) & Misc Asphalt Resurfacing Task Order 10	Scoping	2023 SPLOST / GF
PW-2024-16	2024 Senoia Rd Streetscape & Commerce Streetscape	Scoping	2023 SPLOST
PW-2024-17	2024 Shamrock Park	Design	2023 SPLOST
PW-2024-18	2024 Vet Park striping and parking	Scoping	2023 SPLOST
PW-2024-19	2024 Museum Improvements	Scoping	2023 SPLOST
PW-2024-20	2024 Sewer PS 2 Generator	Scoping	Enterprise
PW-2024-21	2024 Sewer PS 4 back-up pump	Scoping	Enterprise
PW-2024-22	2024 Sewer Pipe and Manhole Repair	Scoping	Enterprise
PW-2024-23	2024 Sewer Lift Station Liners PS1, PS3, PS4	Scoping	Enterprise

Project Schedule Example



Environmental & Stormwater

PRESENTER: DEVON BOULLION
ENVIRONMENTAL SPECIALIST



**Public
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Public Works Staff

- ▶ How many employees manage and work on the Town's:

- ▶ 70 miles of roads and rights-of-way
- ▶ 559 traffic signs plus street blades
- ▶ 5 Parks including 6 buildings
- ▶ 5 Buildings - Town Hall, Old PD, Rec, Library, Museum
- ▶ Stormwater pipes, ditches, ponds, and dams
- ▶ Admin Vehicle Fleet and Construction Equipment
- ▶ Capital and Non-capital construction projects
- ▶ Sewerage System
- ▶ Litter and dead animals
- ▶ Development reviews, permits, and inspections
- ▶ Utility locates and permits
- ▶ Streetlights
- ▶ Miles of Sidewalks and Multi Use Paths
- ▶ Setup, clean-up, and striking events for Rec
- ▶ Janitorial Service



How we compare? (2021 Data)

- ▶ Palmetto- Population 4707 – Area 12.0 sqmi – Staff 15 = 1.25 staff/sqmi
- ▶ Jonesboro – Population 4729 – Area 2.6 sqmi – Staff 7 = 2.69 staff/sqmi
- ▶ Hapeville – Population 7511 – Area 2.4 sqmi – Staff 20 = 8.33 staff/sqmi
- ▶ Dehlonega – Population 6773 – Area 8.8 sqmi – Staff 11 = 1.25 staff/sqmi
- ▶ Barnesville – Population 6650 – Area 6.1 sqmi – Staff 9 = 1.48 staff/sqmi

Tyrone – Population 7500 – Area 12.88 sqmi – Staff 5 = 0.39 staff/sqmi

Thank You

The Public Works Department appreciates your time and interest in allowing us to demonstrate some of the many things we do for you every day, of every week, of every year.

We are glad to answer any questions you may have.



**Public
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