

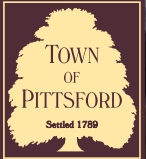
# **2024 Department of Public Works Project Update**

**June 18, 2024**





# 2024 Road Work Schedule





# Why Does Pavement Fail?

- **Shade**
- **Utility Dig-Ups**
- **Dries Out**
- **Freeze – Thaw**
- **Minimal Preventive Maintenance**



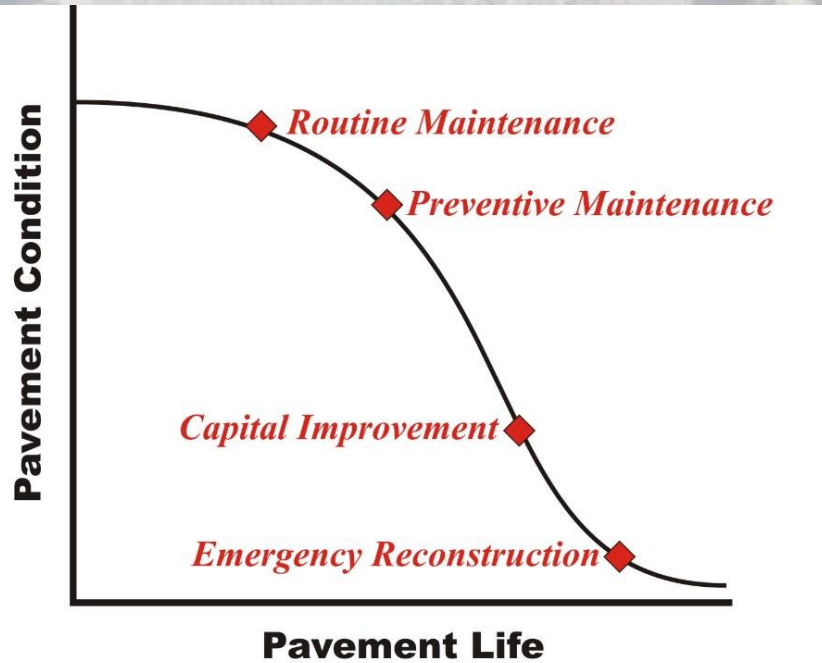
- **Poor Sub-Base (Rutting)**
- **Traffic**
- **Water Infiltration (Cracks)**
- **Poor Subsurface Drainage**



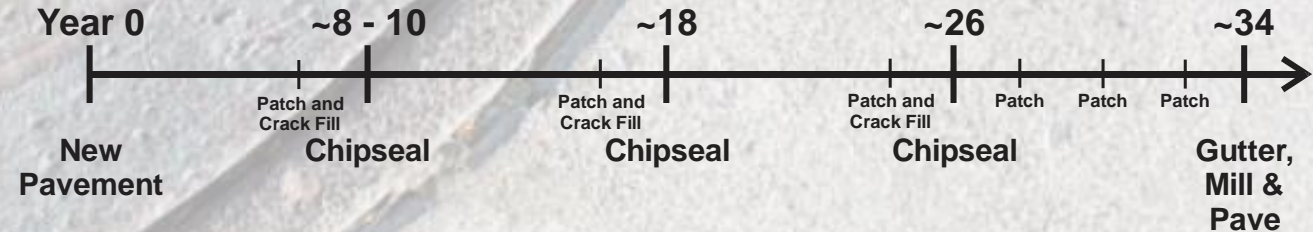
# Definitions

- **Routine Maintenance** - Consists of work that is planned and performed on a routine basis to maintain and preserve the condition of the road or to respond to specific conditions and events that restore the road network to an adequate level of service (Patching, Crack Filling, Spot Gutter Repairs, Dig Outs)
- **Preventive Maintenance** - Is a planned strategy of cost-effective treatments to an existing road network and its appurtenances that preserves the network, retards future deterioration, and maintains or improves the functional condition of the network. (Chip Seal, MicroPave, Slurry Seal) (2024 – 9.48 Miles)

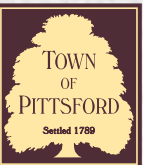
- **Capital Improvement** - Is the replacement of the entire pavement structure by the placement of the equivalent or increased pavement structure. Typically involves replacement of concrete gutters and improvements to the sub-surface drainage network (Mill and Pave, Gutter Mill, and Pave) (2024 – 3.86 Miles)



## Theoretical Road Life Span



*“Keep Good Roads Good”*





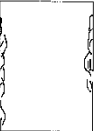
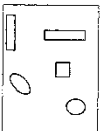
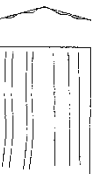




# Pavement Condition Index (PCI)

RSMS 2003 Flexible Pavement Condition Survey

Street: \_\_\_\_\_ Distance: \_\_\_\_\_ Name: \_\_\_\_\_  
 Section #: \_\_\_\_\_ Start: \_\_\_\_\_ Date: \_\_\_\_\_  
 Start: \_\_\_\_\_ End: \_\_\_\_\_ Weather: \_\_\_\_\_  
 End: \_\_\_\_\_ Length: \_\_\_\_\_ Temp (F°/C°): \_\_\_\_\_

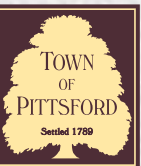
- Cornell Local Roads Program – Software utilized to manage the maintenance of our 108 miles of Town roads
- PCI – Pavement Condition Index is a value calculated from the results of the survey shown on the left.

<p><b>LONGITUDINAL/ TRANSVERSE CRACKING</b></p>  <table border="1"> <tr> <td>NO Defects</td> <td colspan="3">EXTENT</td> </tr> <tr> <td></td> <td>Low</td> <td>Med</td> <td>High</td> </tr> <tr> <td>SEVERITY</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td></td> <td>7</td> <td>8</td> <td>9</td> </tr> </table>	NO Defects	EXTENT				Low	Med	High	SEVERITY	1	2	3		4	5	6		7	8	9	<p><b>ALLIGATOR CRACKING</b></p>  <table border="1"> <tr> <td>NO Defects</td> <td colspan="3">EXTENT</td> </tr> <tr> <td></td> <td>Low</td> <td>Med</td> <td>High</td> </tr> <tr> <td>SEVERITY</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td></td> <td>7</td> <td>8</td> <td>9</td> </tr> </table>	NO Defects	EXTENT				Low	Med	High	SEVERITY	1	2	3		4	5	6		7	8	9
NO Defects	EXTENT																																								
	Low	Med	High																																						
SEVERITY	1	2	3																																						
	4	5	6																																						
	7	8	9																																						
NO Defects	EXTENT																																								
	Low	Med	High																																						
SEVERITY	1	2	3																																						
	4	5	6																																						
	7	8	9																																						
<p><b>EDGE CRACKING</b></p>  <table border="1"> <tr> <td>NO Defects</td> <td colspan="3">EXTENT</td> </tr> <tr> <td></td> <td>Low</td> <td>Med</td> <td>High</td> </tr> <tr> <td>SEVERITY</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td></td> <td>7</td> <td>8</td> <td>9</td> </tr> </table>	NO Defects	EXTENT				Low	Med	High	SEVERITY	1	2	3		4	5	6		7	8	9	<p><b>PATCHING / POTHOLES</b></p>  <table border="1"> <tr> <td>NO Defects</td> <td colspan="3">EXTENT</td> </tr> <tr> <td></td> <td>1</td> <td colspan="2">Low</td> </tr> <tr> <td></td> <td>2</td> <td colspan="2">Medium</td> </tr> <tr> <td></td> <td>3</td> <td colspan="2">High</td> </tr> </table> <p>Do not include good patches</p>	NO Defects	EXTENT				1	Low			2	Medium			3	High					
NO Defects	EXTENT																																								
	Low	Med	High																																						
SEVERITY	1	2	3																																						
	4	5	6																																						
	7	8	9																																						
NO Defects	EXTENT																																								
	1	Low																																							
	2	Medium																																							
	3	High																																							
<p><b>RUTTING</b></p>  <table border="1"> <tr> <td>NO Defects</td> <td colspan="3">EXTENT</td> </tr> <tr> <td></td> <td>Low</td> <td>Med</td> <td>High</td> </tr> <tr> <td>SEVERITY</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td></td> <td>7</td> <td>8</td> <td>9</td> </tr> </table>	NO Defects	EXTENT				Low	Med	High	SEVERITY	1	2	3		4	5	6		7	8	9	<p><b>BLEEDING</b></p>  <table border="1"> <tr> <td>SEVERITY</td> <td colspan="2">CONDITION</td> </tr> <tr> <td>1</td> <td colspan="2">Good</td> </tr> <tr> <td>4</td> <td colspan="2">Fair</td> </tr> <tr> <td>7</td> <td colspan="2">Poor</td> </tr> </table>	SEVERITY	CONDITION		1	Good		4	Fair		7	Poor									
NO Defects	EXTENT																																								
	Low	Med	High																																						
SEVERITY	1	2	3																																						
	4	5	6																																						
	7	8	9																																						
SEVERITY	CONDITION																																								
1	Good																																								
4	Fair																																								
7	Poor																																								
<p><b>DRAINAGE</b></p>  <table border="1"> <tr> <td>SEVERITY</td> <td colspan="2">CONDITION</td> </tr> <tr> <td>1</td> <td colspan="2">Good</td> </tr> <tr> <td>4</td> <td colspan="2">Fair</td> </tr> <tr> <td>7</td> <td colspan="2">Poor</td> </tr> </table>	SEVERITY	CONDITION		1	Good		4	Fair		7	Poor		<p><b>ROUGHNESS</b></p> <p>Check road for presence of the following:</p> <ul style="list-style-type: none"> <li>- uneven surface</li> <li>- sags</li> <li>- humps</li> <li>- frost heaves</li> </ul> <table border="1"> <tr> <td>SEVERITY</td> <td colspan="2">CONDITION</td> </tr> <tr> <td>1</td> <td colspan="2">Good</td> </tr> <tr> <td>4</td> <td colspan="2">Fair</td> </tr> <tr> <td>7</td> <td colspan="2">Poor</td> </tr> </table>	SEVERITY	CONDITION		1	Good		4	Fair		7	Poor																	
SEVERITY	CONDITION																																								
1	Good																																								
4	Fair																																								
7	Poor																																								
SEVERITY	CONDITION																																								
1	Good																																								
4	Fair																																								
7	Poor																																								

- 90-100** Very good
- 70-89** Good
- 50-69** Fair
- 25-49** Poor
- 0-24** Very Poor

## Pittsford's Historic Surveys

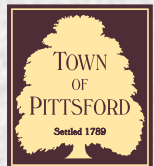
2022	82.6
2021	87.1
2018	82.6
2014	79.1
2011	86.3
2009	70.1
2005	82.5







# Catch Basins & Crossovers





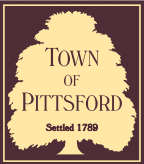


Manholes





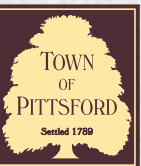
# Concrete Gutter



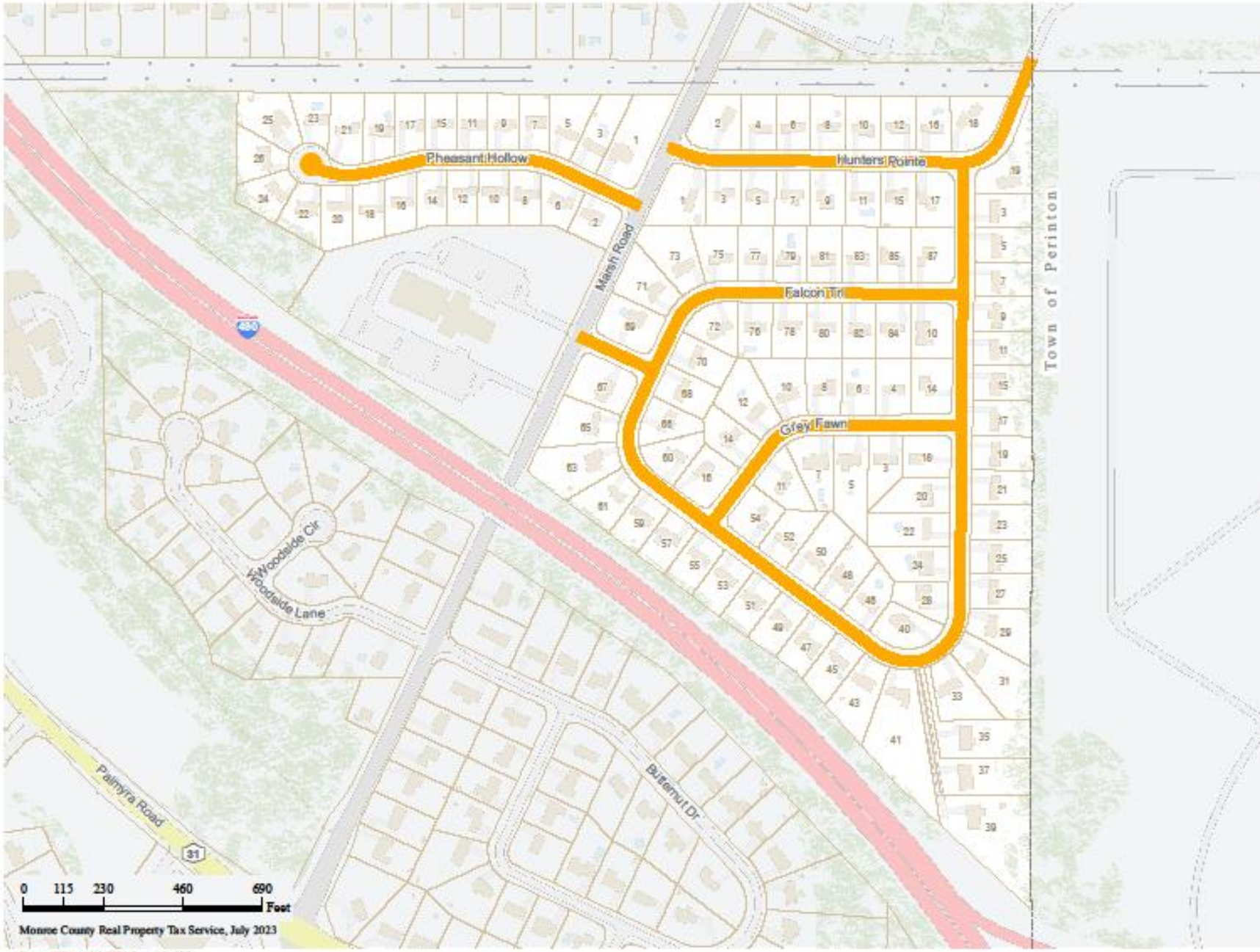




## Milling and Paving







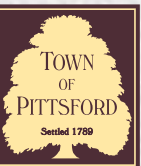
Capital Improvement – Spot  
Gutter, Mill, and Pave

- Pheasant Hollow
- Hunters Pointe
- Falcon Trail
- Grey Fawn

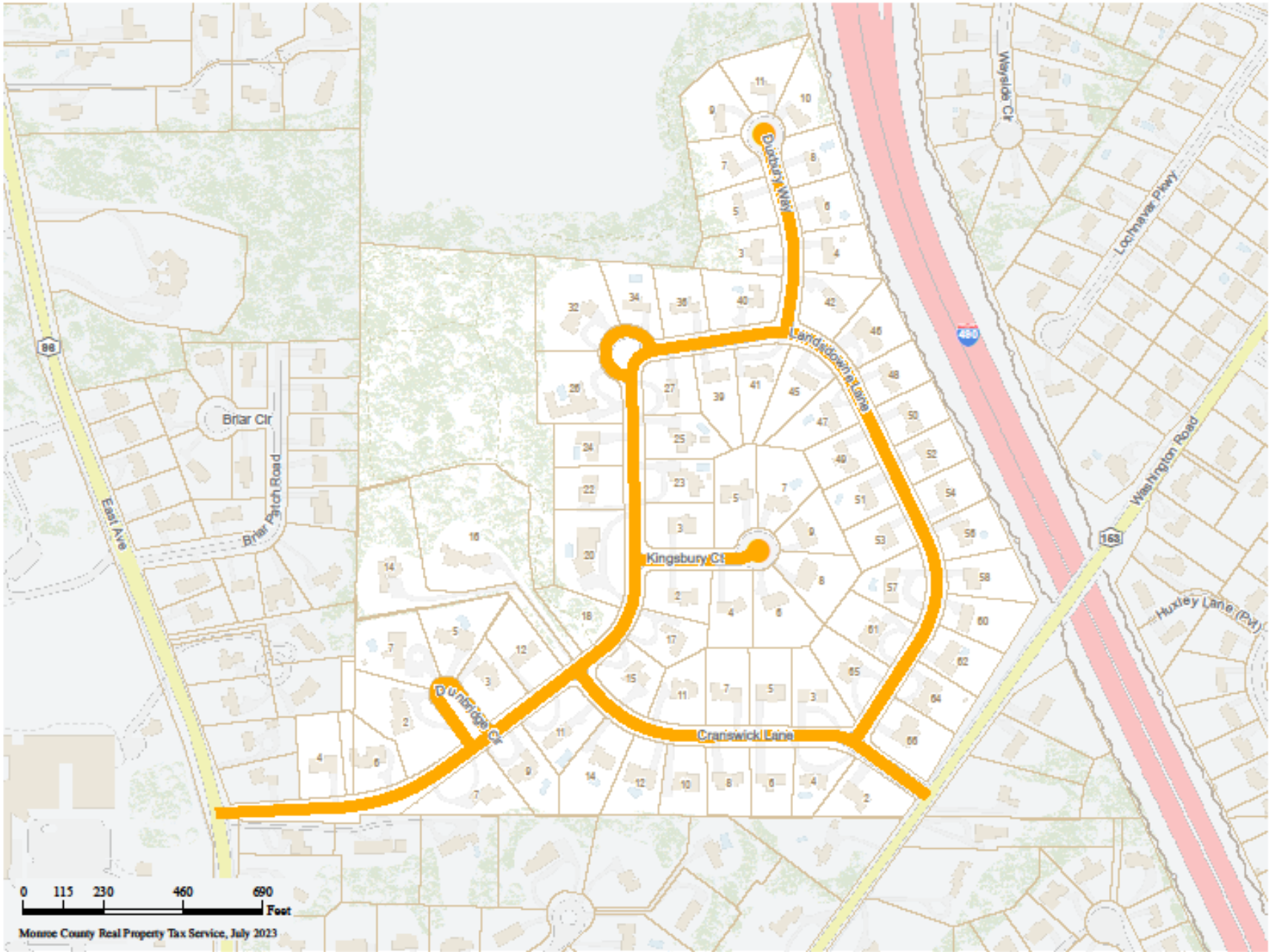
*Storm Sewer Work  
Complete*

*Spot Gutter Replacement  
Complete*

*Milling & Paving – July*







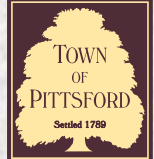
Capital Improvement – Spot  
Gutter, Mill, and Pave

- Cranswick Lane
- Dunbridge Circle
- Duxbury Way
- Kingsbury Court
- Landsdowne Lane

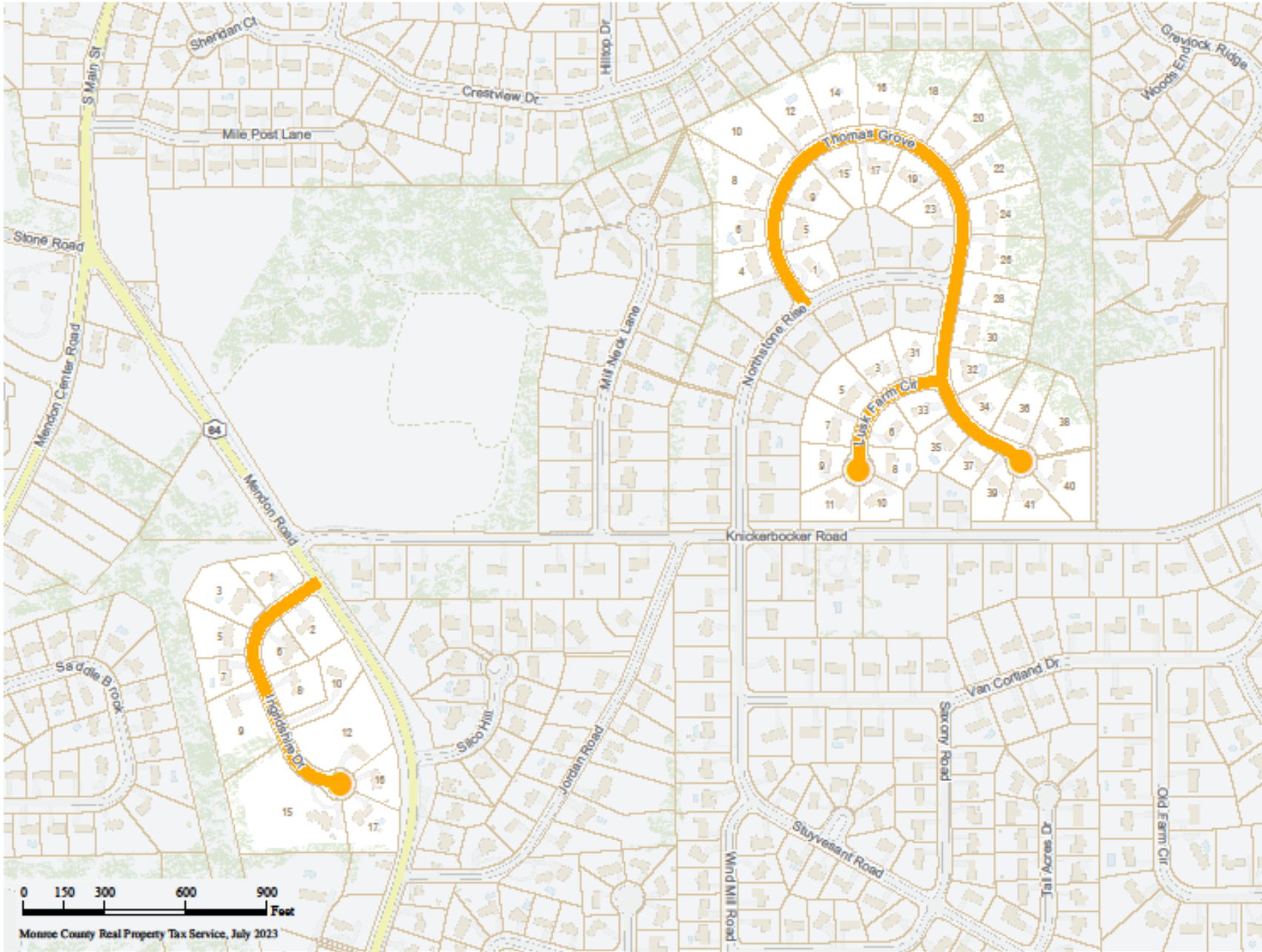
*Storm Sewer Work  
Ongoing*

*Spot Gutter Replacement  
July*

*Milling & Paving – July*







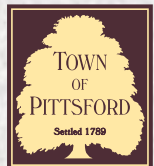
Capital Improvement – Spot  
Gutter, Mill, and Pave

- Ingridshire Drive
- Lusk Farm Circle
- Thomas Grove

*Storm Sewer Work  
July*

*Spot Gutter Replacement  
August*

*Milling & Paving – August*







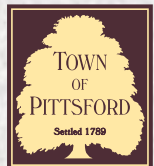
Monroe County Real Property Tax Service, July 2023

Town of Pittsford GIS | June 11, 2024

Capital Improvement – Gutter, Mill, and Pave

- Old Brick Circle
- Deer Creek Road
- Old Forge Lane
- Wandering Trail
- Whispering Meadow

*Multi-year Project*  
*Storm Sewer Work*  
*Starts in August*  
*Continues until*  
*end of season*



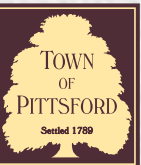
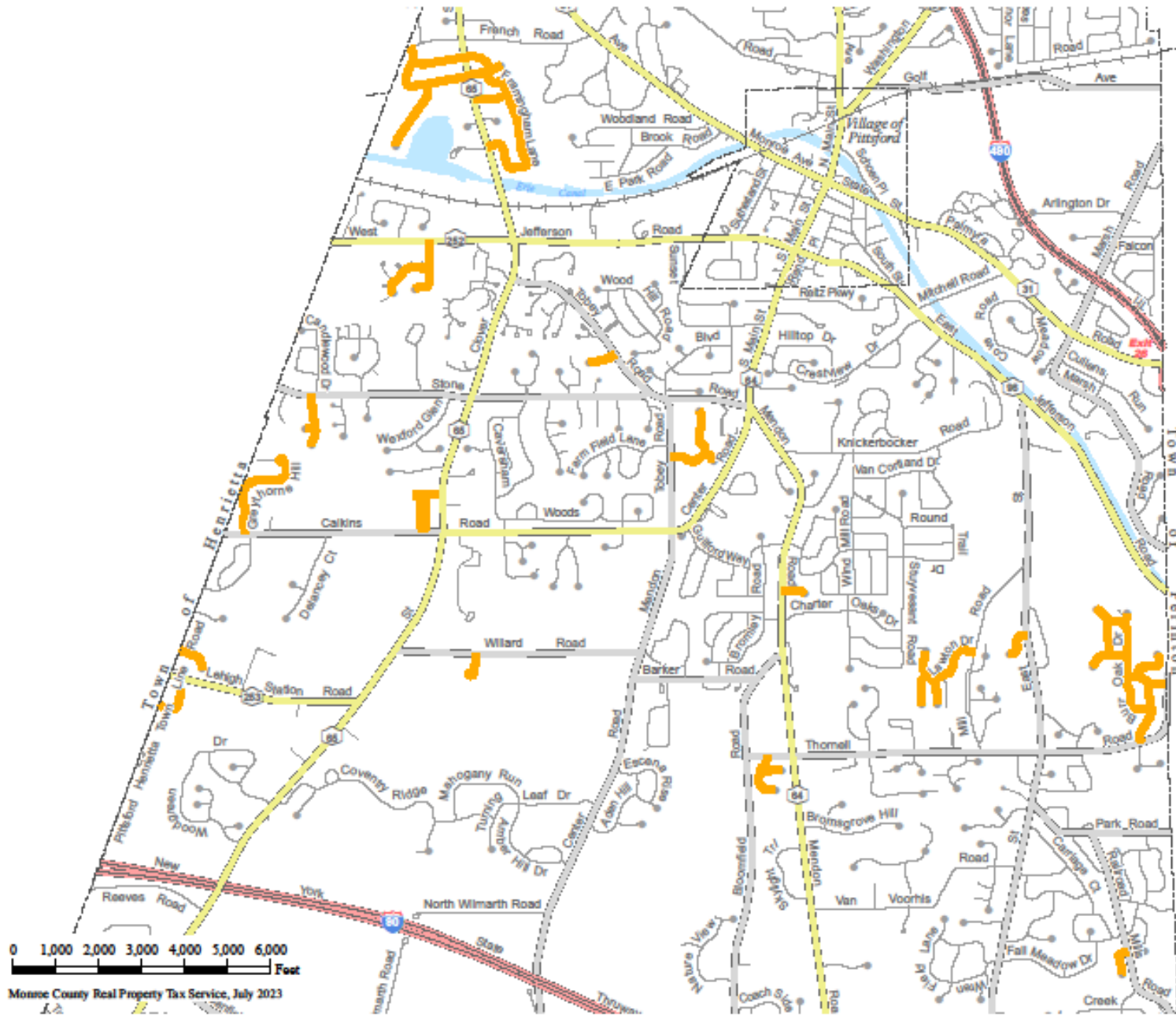


## Preventive Maintenance

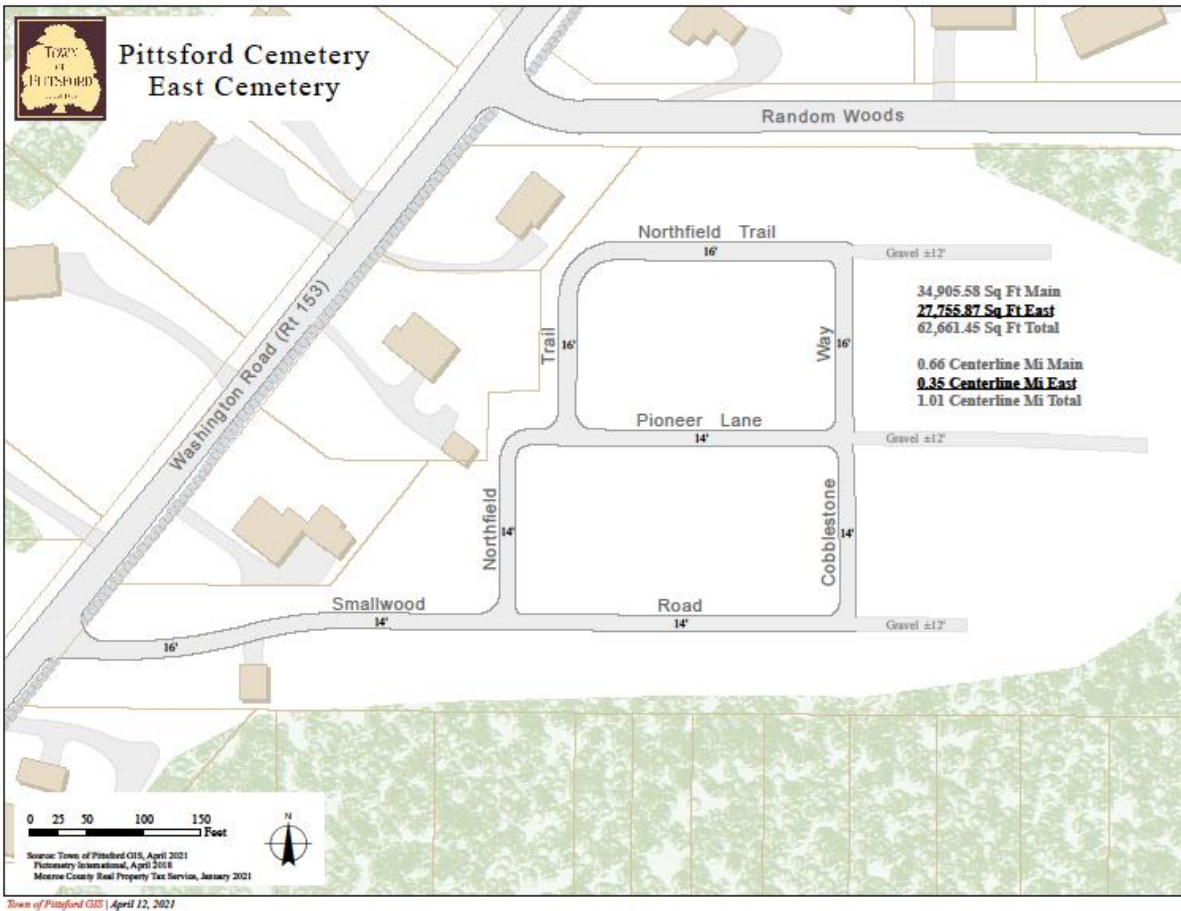
- |                    |                       |
|--------------------|-----------------------|
| Babcock Farms Lane | Pin Hook Lane         |
| Baynard Ct         | Pine Cone Dr          |
| Brakenberry Road   | Prospect Hill Road    |
| Burr Oak Dr        | Rainbrooke Dr         |
| Esternay Lane      | S Pittsford Hill Cir  |
| Falconbridge Dr    | S Pittsford Hill Lane |
| Framingham Lane    | Sand Brook Road       |
| Gladbrook Road     | Sandy Lane            |
| Grandhill Way      | Sassafras Lane        |
| Greentree          | Settlers Green        |
| Greythorne Hill    | Summers Cir           |
| Hawkstone Way      | Tor Hill              |
| Lawton Dr          | Turnberry Lane        |
| Muirfield Ct       | Whitley Ct            |
| Oak Leaf Lane      | Widewaters Lane       |
| Old Lyme Road      | Winchester Dr         |
| Park Square Lane   | Windscape Park        |

*Prep Work - Ongoing*

*Application  
June 24th*







## Routine Maintenance

- Tree Canopy Thinning
- Crack Filling
- Patching
- Pothole Repairs
- Sweeping
- Catch Basin Cleaning
- Sewer Televising and Flushing

## Miscellaneous Work

- Pittsford Cemetery (East) – Cold Mix Paving Treatment – 2023
  - Chip Seal Application – May, 2024
- Catch Basin Crossover Repairs as Needed

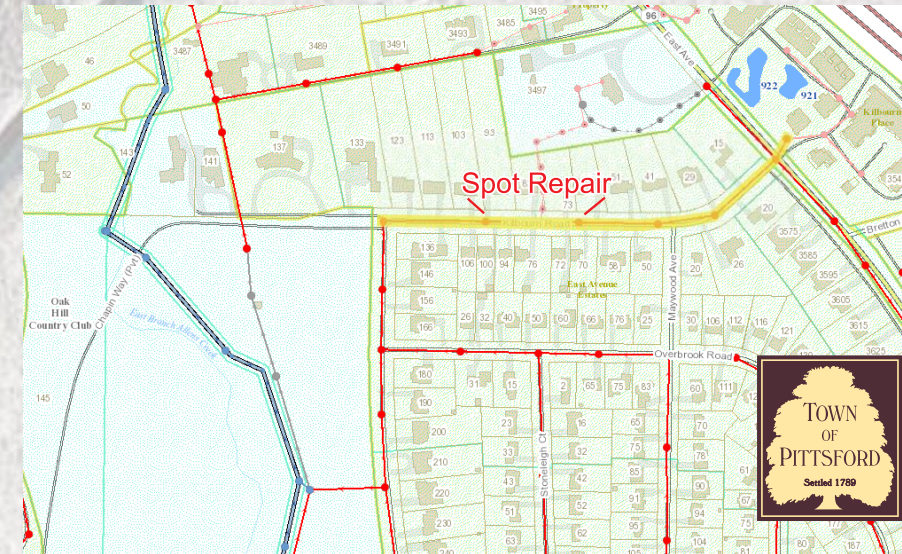


# 2024 - Sewer Department Projects

## Country Club / N. Country Club Drive Sewer Relining

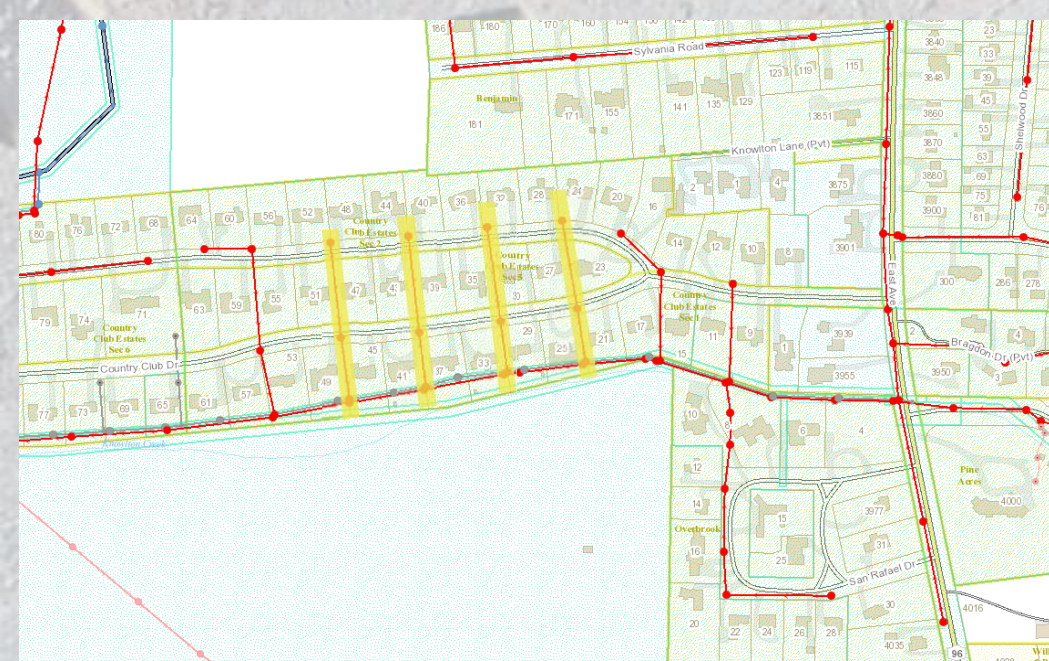
- Sanitary Sewers constructed in the late 1950's
- Sewer Deficiencies:
  - Running sand makes excavation difficult
  - Clay pipe has deteriorated, with many off-set joints
  - Tree root penetration
  - Bi-annual root cutting is required
  - I&I – Inflow and Infiltration
  - Sewer back ups have occurred

## Kilbourn Road Spot Repair and Sewer Relining

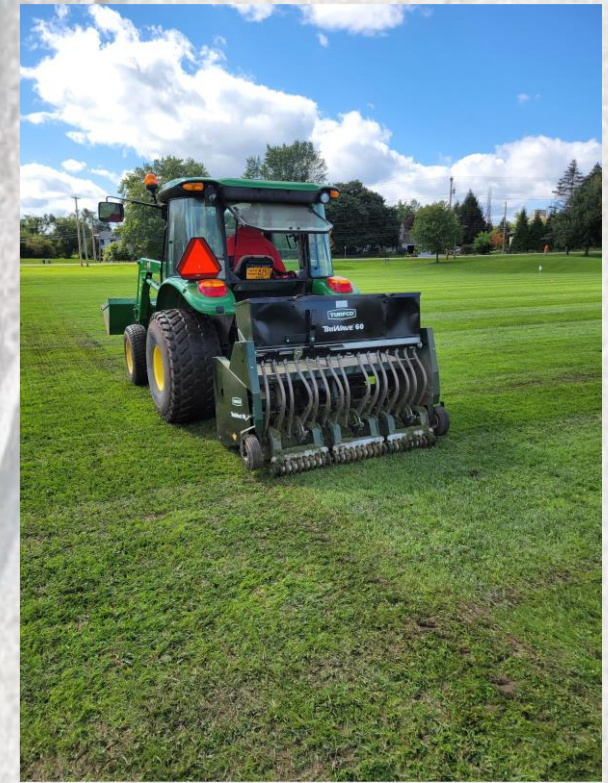
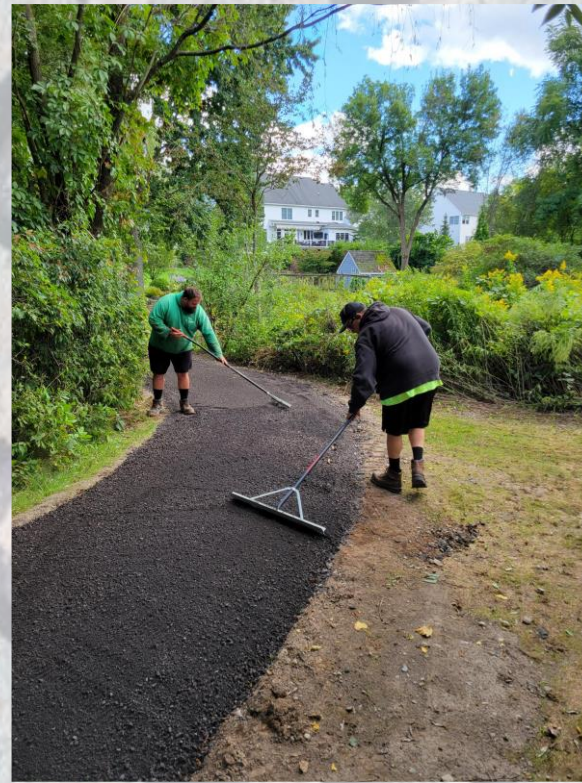
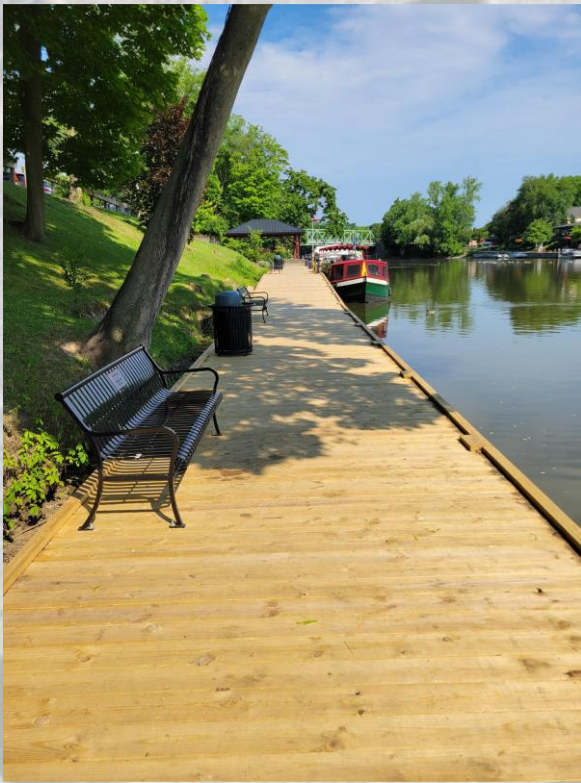


## Pump Station Upgrades

- Downing Drive
- Lehigh Station
- Improve Performance and Reliability
- SCADA Upgrades







## 2024 - Parks Department Projects

### Port of Pittsford Dock Reconstruction

### New front patio at Community Library

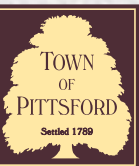
### Trail Maintenance

- Thornell Farm Park woods to Oak Meadow and Bay Colony
- Wood Stone Rise / Sunrise / Bromsgrove
- Lehigh / Summers Circle / Delancey Court
- Wessex Court / Wexford Glen / Roxbury

### Integrated Pest Management

- grubGONE!
  - Safe bioinsecticide that only targets white grubs
- Overseeding
- Aeration
- Fertilizing

### Trailer Markers and Kiosks





# Copper Beech Park

## Expansion

- Pre-Construction Meeting Completed
- Tree Removal Started
- Working on temporary relocation of Harladay Hots
- Coordinating with MCWA for new water service
- Copper Beech tree relocated this week
- Contractor starts mid-July
- Completion in October



Open Lawn  
- Copper Beech Tree  
- Adirondack Chairs

Copper Beech Park Connector Walkway  
- Concrete Sidewalk (4' wide)  
- Planting beds  
- Stone Curb at Parking Spaces  
- Lit bollards along walk  
- Reconfigure parking spaces

Easement/  
Land Acquisition Required  
- Sidewalk Connection  
- Planting beds  
- Lit bollard along walk

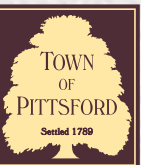
Light Bollards

### Copper Beech Park Design Development

#### Site Plan

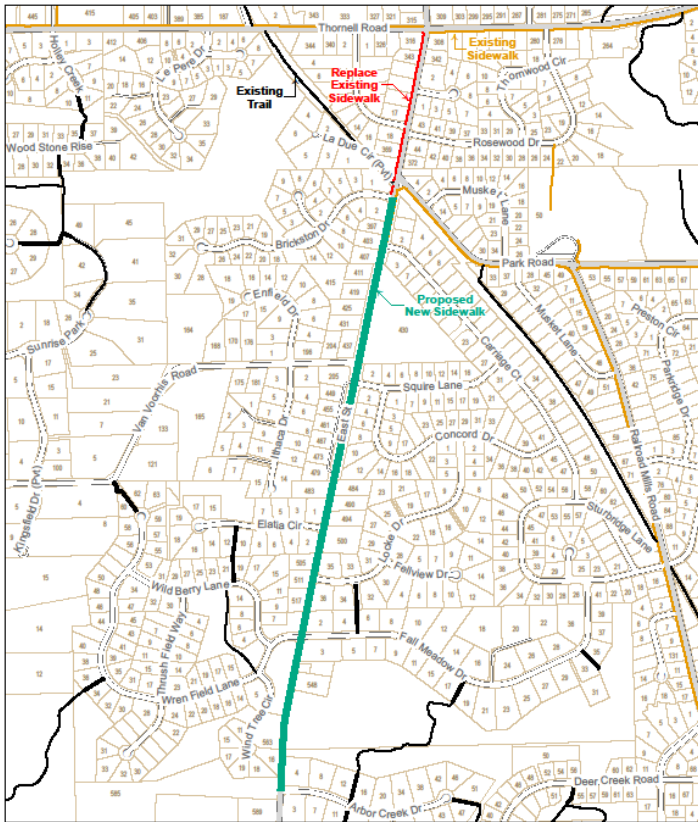
Town of Pittsford  
Pittsford, New York  
08.31.2022 (revised 1.24.23)

Sue  
Steele  
Landscape  
Architecture  
L.L.C.





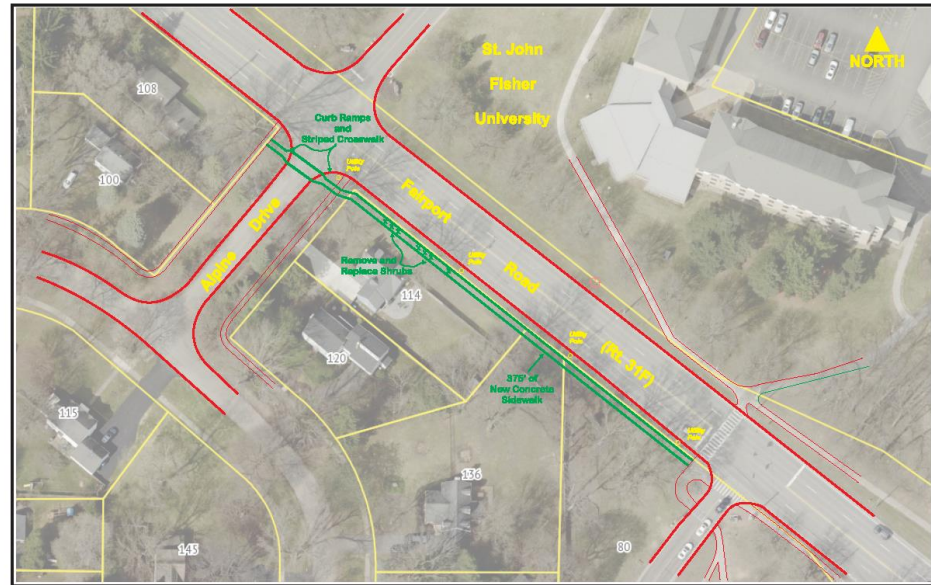
# Sidewalk Projects



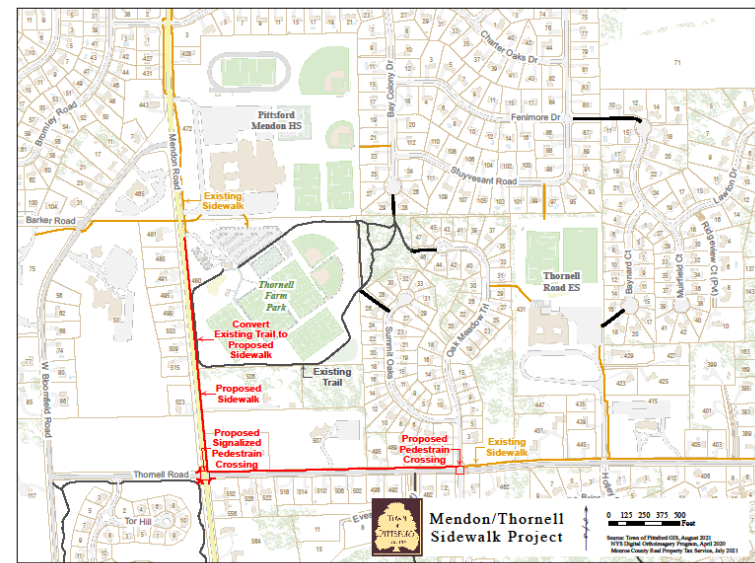
**East Street Proposed Sidewalk**  
Thornell Road to Arbor Creek Dr

1 inch = 700 feet

Source: Town of Pittsford GIS, February 2023  
NY's Digital Orthoregistry Program, April 2020  
Monroe County Real Property Tax Service, July 2022  
Town of Pittsford GIS | February 27, 2023



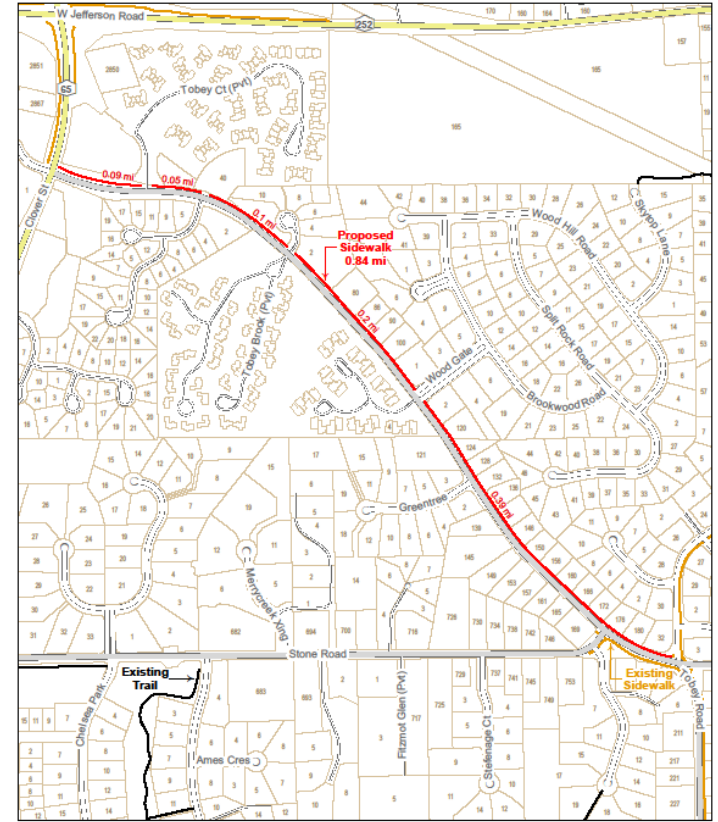
**Fairport Road – Alpine Dr. to Signalized Intersection**



**Mendon/Thornell Sidewalk Project**

1 inch = 500 feet

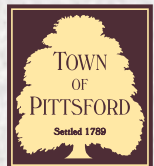
Source: Town of Pittsford GIS, August 2023  
NY's Digital Orthoregistry Program, April 2020  
Monroe County Real Property Tax Service, July 2022  
Town of Pittsford GIS | August 21, 2023



**Tobe Road Proposed Sidewalk**  
Cricket Hill Dr to Clover St

1 inch = 500 feet

Source: Town of Pittsford GIS, April 2024  
NY's Digital Orthoregistry Program, April 2020  
Monroe County Real Property Tax Service, July 2023  
Town of Pittsford GIS | April 15, 2024





# 2024 - Building Maintenance Projects

## Library

- 2 replacement rooftop HVAC Units
- 1<sup>st</sup> Floor carpet replacement (Completed)
- Fisher Meeting Room carpet replacement
- Replacement automatic entry doors
- Replacement LED track lighting (Completed)

## Highway Garage

- LED lighting replacement (on-going)

## Kings Bend Park

- Window replacement (Completed)
- Appliance replacement

## Parks Garage

- LED lighting replacement



# MS4 - Municipal Separate Stormwater Sewer Systems

The Phase II Stormwater Rule requires MS4 Operators to develop a stormwater management program (SWMP) which includes six minimum control measures (MCMs) that, when implemented together, are expected to reduce the discharge of pollutants to the maximum extent practicable. The goal of the program is to improve water quality and recreational use of waterways.

Public Education and Outreach

Illicit Discharge Detection and Elimination

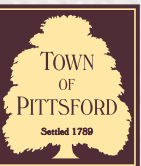
Post - Construction Stormwater Management

Public Involvement and Participation

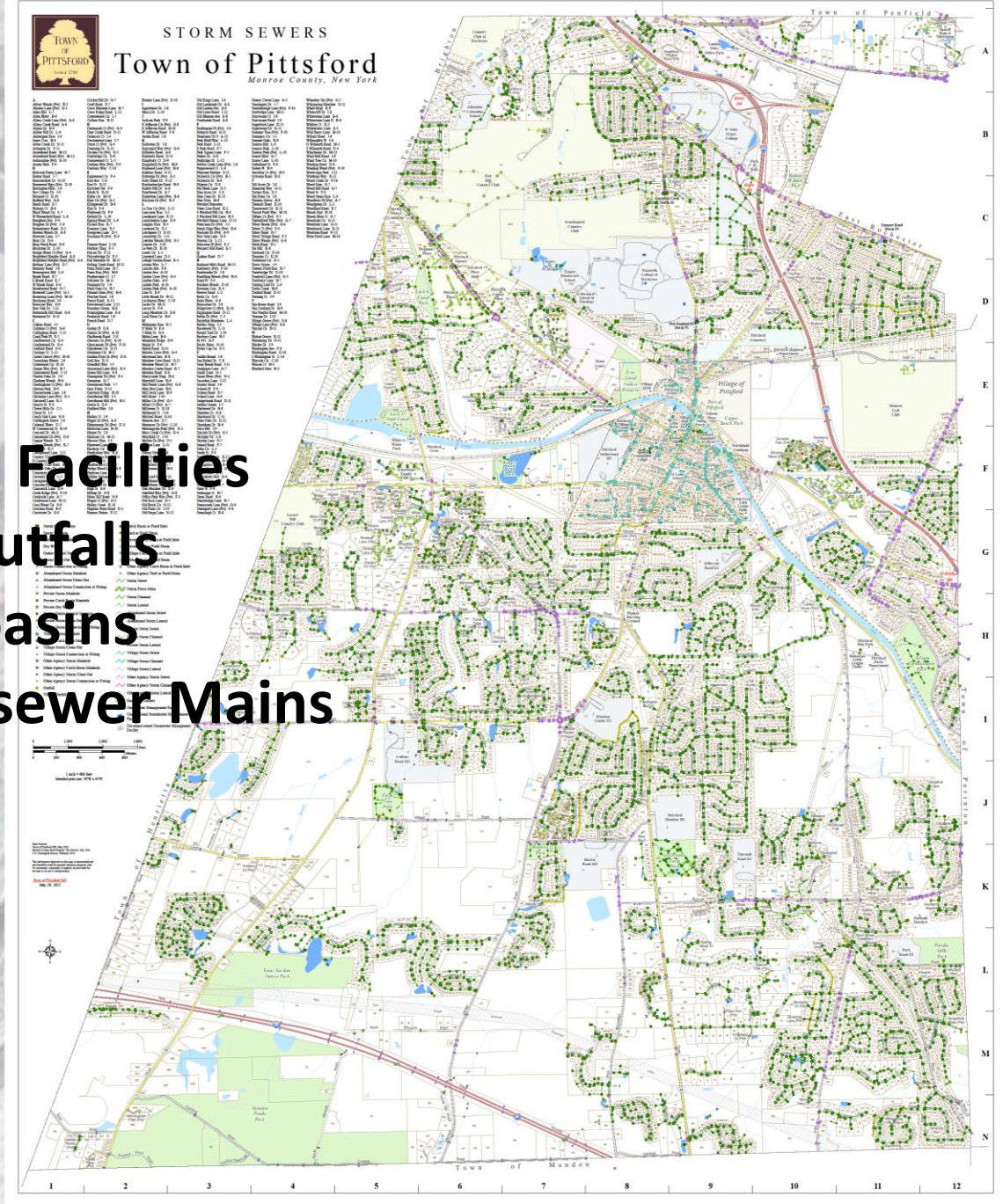
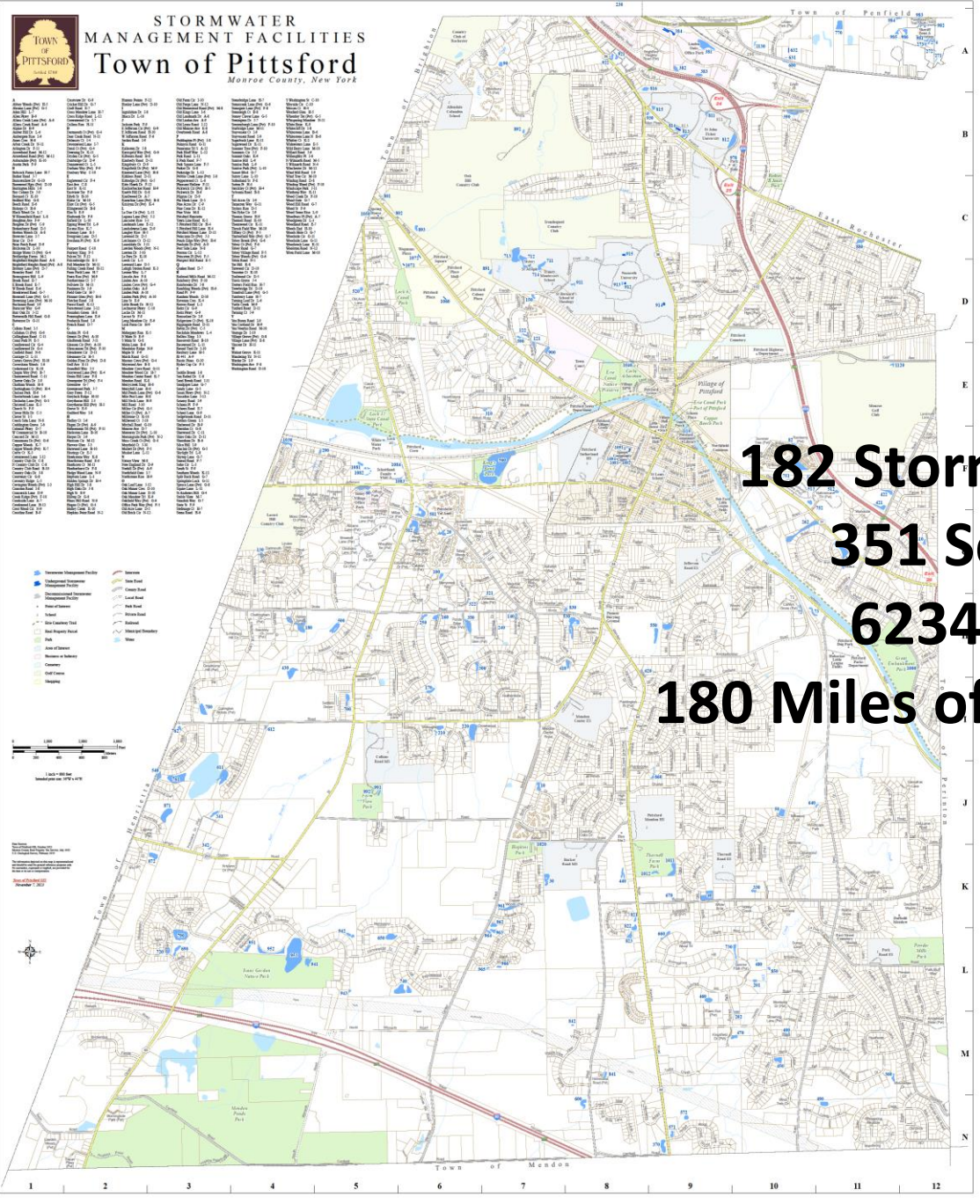
Construction Site Stormwater Runoff Control

Pollution Prevention / Good Housekeeping for Municipal Operations

- New permit came out in December 2023
- Annual report plus two new interim progress reports
- Requires SWPPP creation and inspections for high priority municipal facilities
- Extensive new mapping requirements
- Inspections of catch basins, ponds, outfalls, municipal facilities, etc. increase in frequency and reporting criteria
- New requirements for construction site management and illicit discharge reporting
- Currently working on an updated Stormwater Management Program Plan and our first interim report







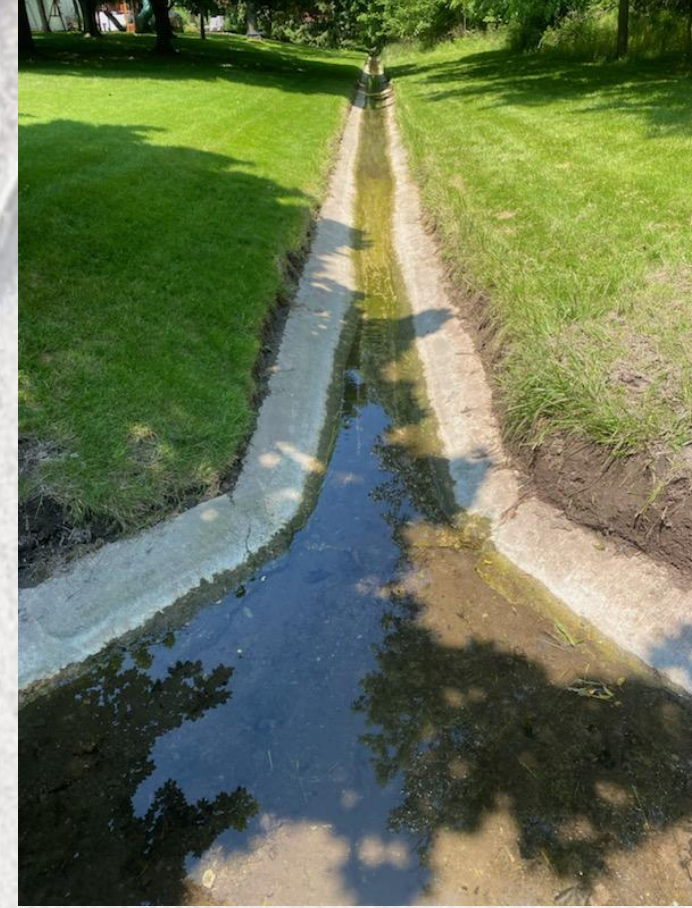
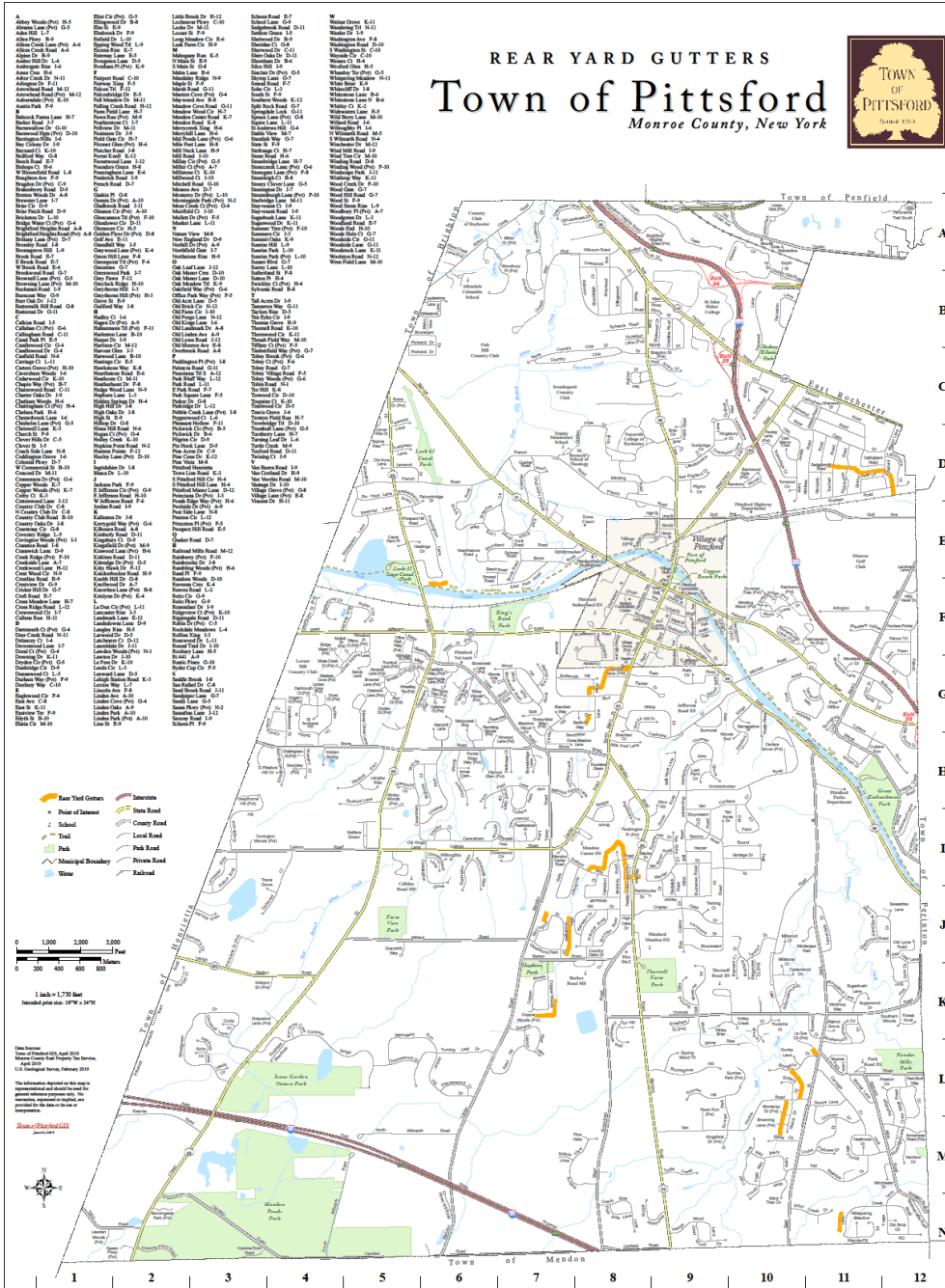
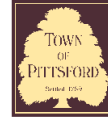
**182 Stormsewer Facilities**  
**351 Sewer Outfalls**  
**6234 Catchbasins**  
**180 Miles of Stormsewer Mains**



# Rear Yard Gutters

- 2.75 miles
- Often must be cleaned by hand
- Critical to the operation of closed stormsewers and ponds

REAR YARD GUTTERS  
Town of Pittsford  
Monroe County, New York

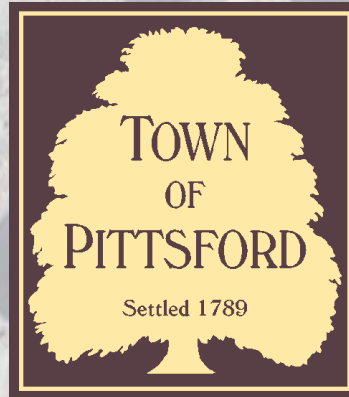




## ARPA Ideas

- **Turtle Creek – Mill and Pave (\$92,000)**
- **Windscape Park – Mill and Pave (\$64,000)**
- **Fairport Road Sidewalk (\$29,000)**





# Questions?

**Paul Schenkel**

**Commissioner of Public Works**

**[pschenkel@townofpittsford.org](mailto:pschenkel@townofpittsford.org)**

**248-6250**