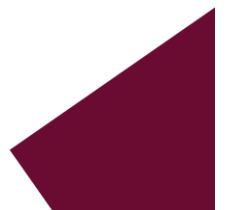
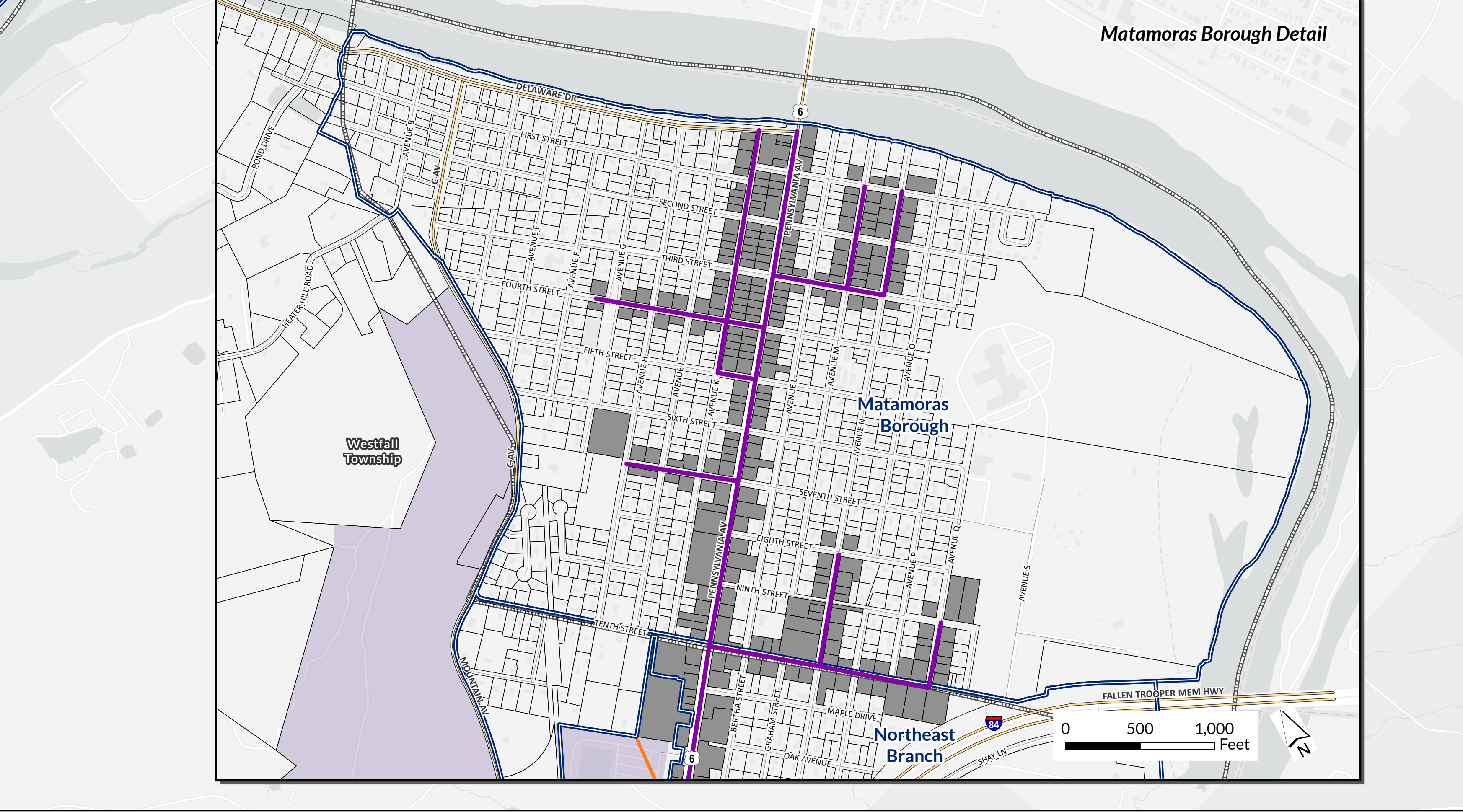
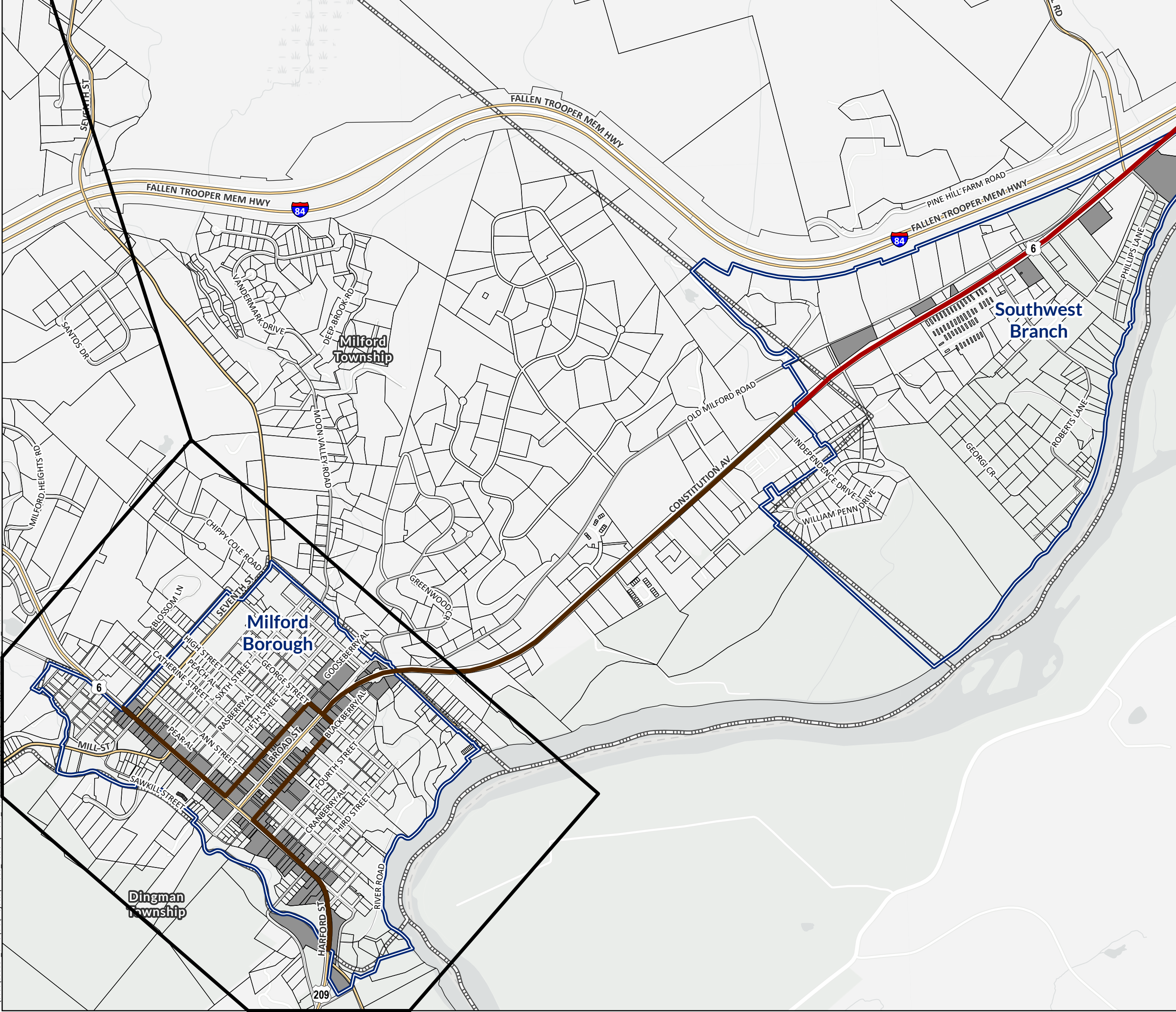
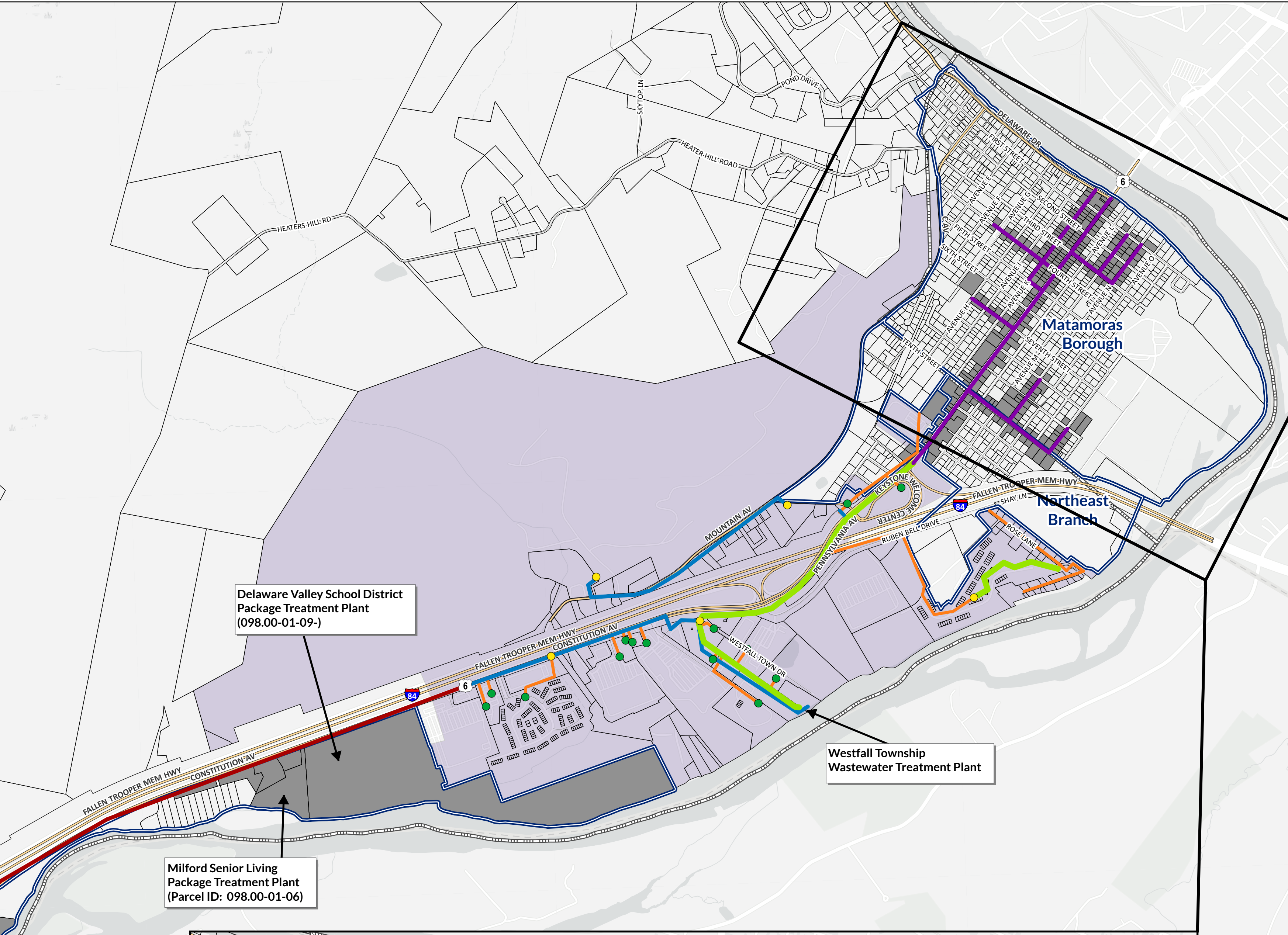
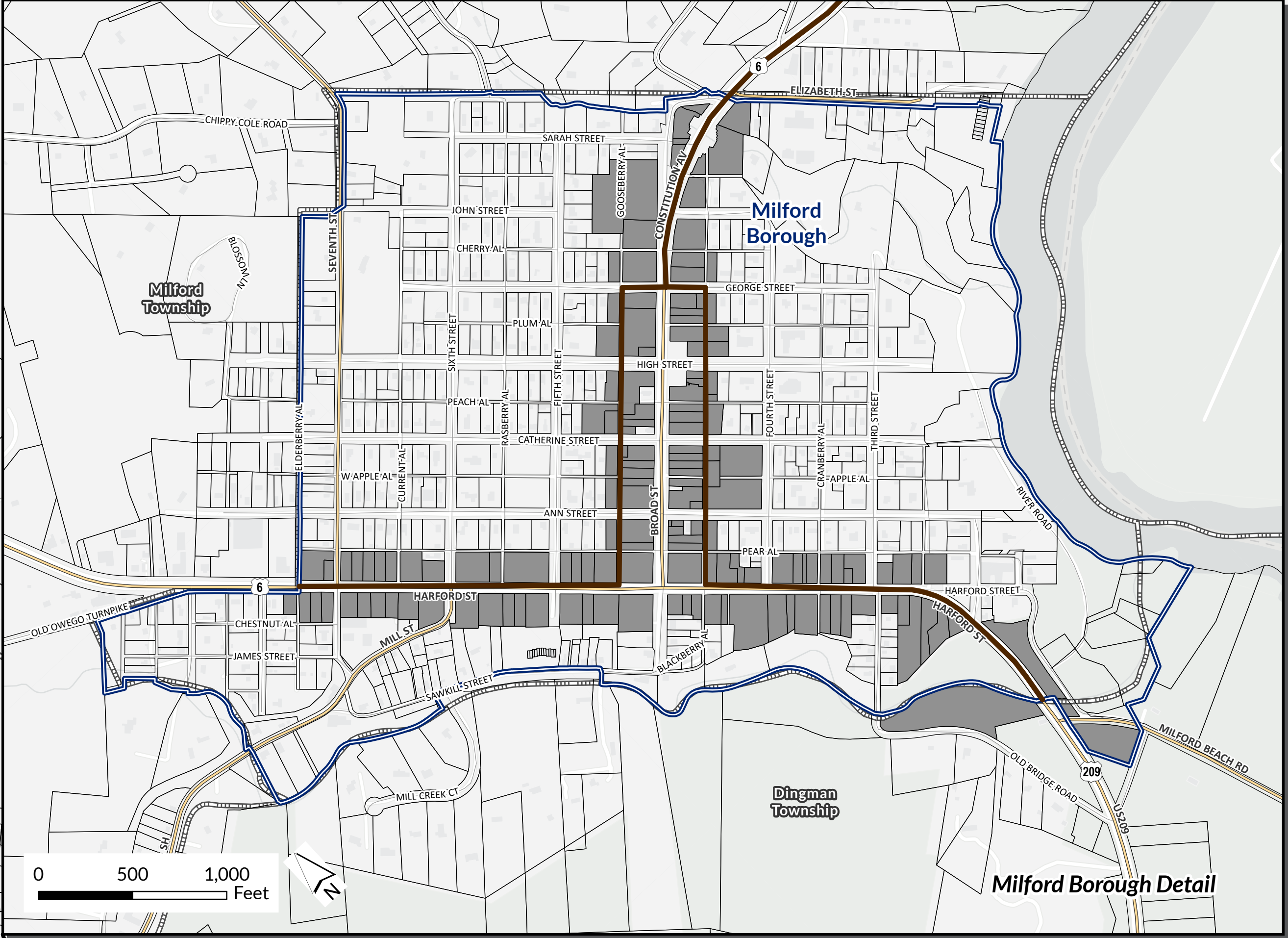


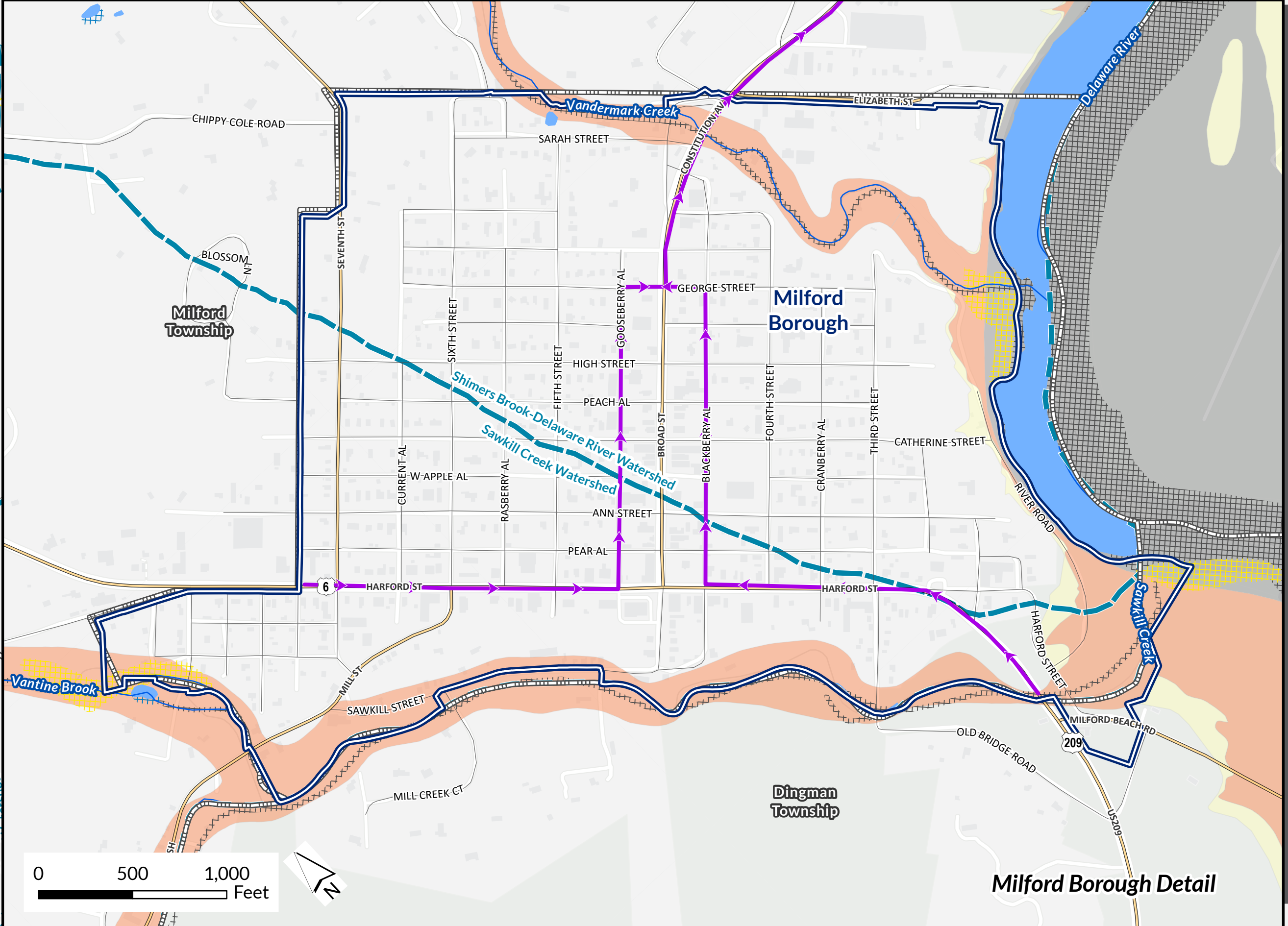
Appendix C: Planning Area Maps



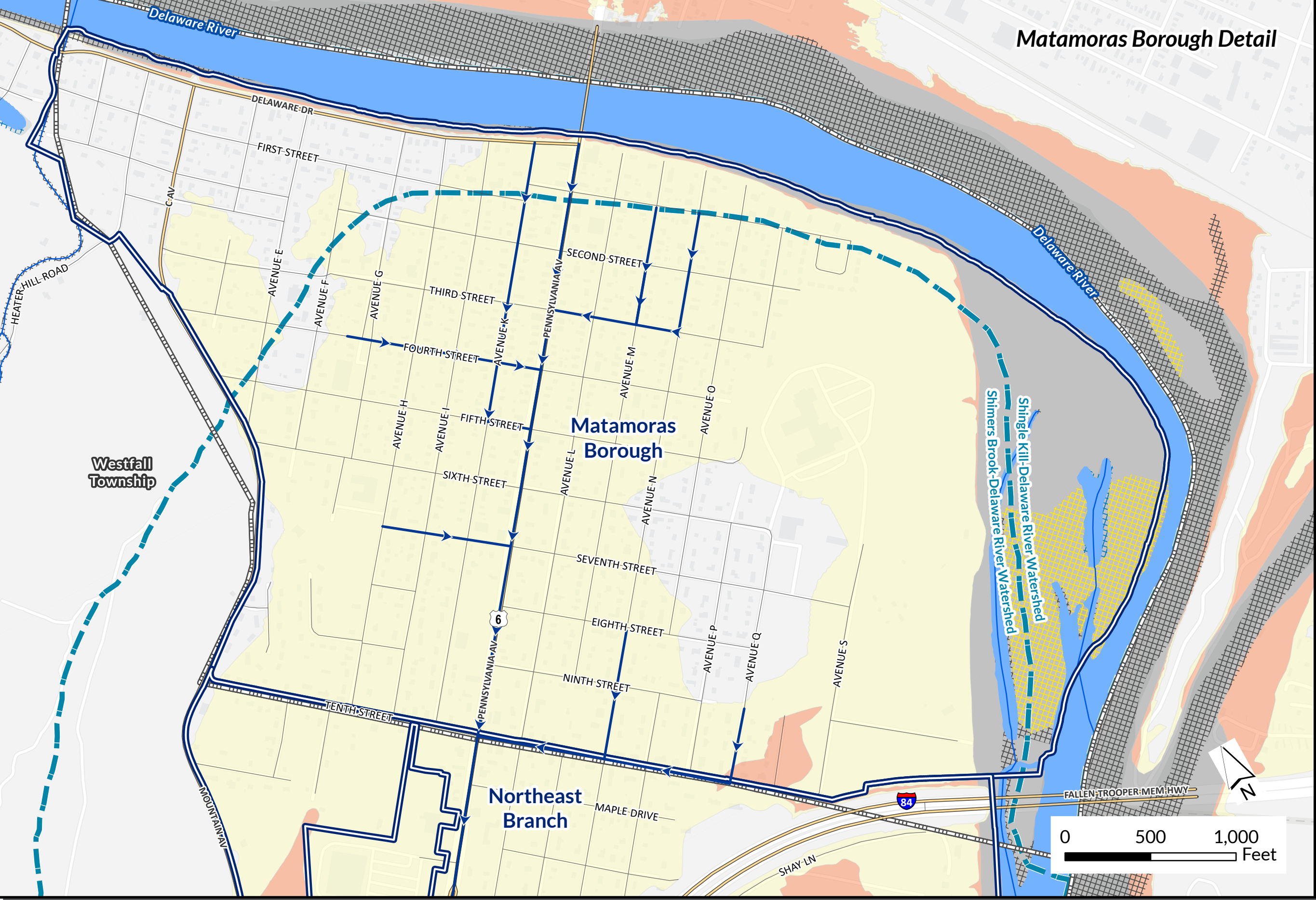
- Existing Pump Station
 - Authority Owned Pump Station
 - Privately Owned Pump Station
- Existing Sanitary Sewer Pipe
 - 4" or less Force Main
 - 6" Force Main
 - 8" Force Main
 - Alternative 1B 4" Low pressure main
 - Alternative 3B 6" Low pressure main
 - Alternative 4B 4" Low pressure main
- Interstate
- State Roads
- Local Roads
- Parcel Boundaries
- Municipal Boundary
- Study Areas
- Proposed Sewer Service Area
- Existing Sanitary Sewer Service Area



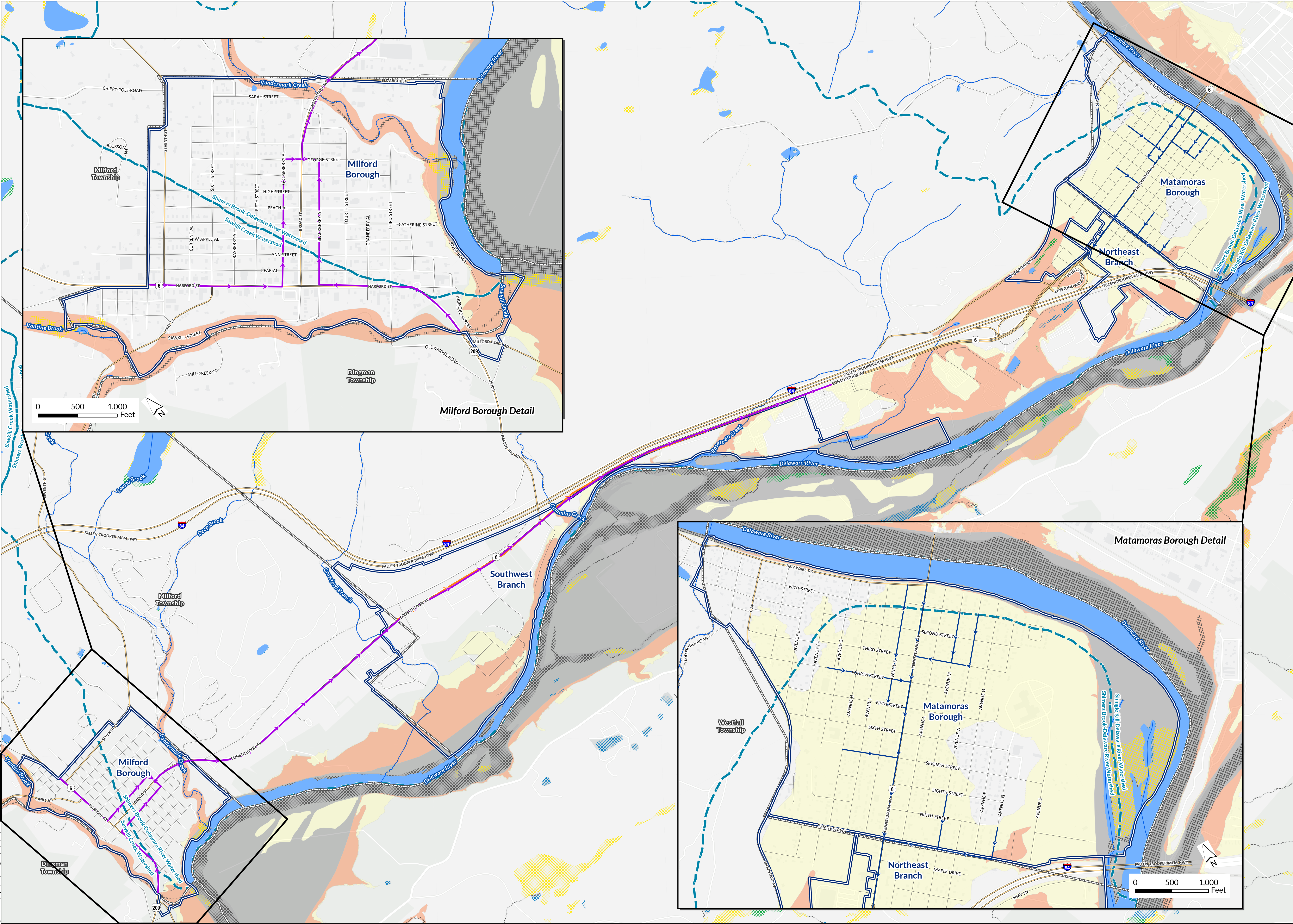
- Alternative 1B Low pressure main
- Alternative 3B Low pressure main
- Alternative 4B Low pressure main
- Study Areas
- USFWS Wetlands 2024
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Waterbody
- FEMA Floodplains
- 1% Annual Chance Flood Hazard (100-year Floodplain)
- 0.2% Annual Chance Flood Hazard
- Regulatory Floodway
- HUC 12 Watershed
- Interstate
- State Roads
- Local Roads
- Municipal Boundary



Milford Borough Detail



Matamoras Borough Detail



Soils

Map 3

Pike County, Pennsylvania

- Study Areas
- Waterbody
- Municipal Boundary

Soils

- 111B
- 11A
- 121D
- 121F
- 14
- 143
- 15
- 18
- 19B
- 20
- 21B
- 21C
- 239B
- 239C
- 239D
- 240F
- 24A
- 24B
- 24C
- 25B
- 25C
- 26
- 27
- 30B
- 30C
- 38B
- 38C
- 402C
- 402E
- 442B
- 442D
- 5B
- 60B
- 60C
- 61B
- 61C
- 75
- 7B
- 7C
- 897B
- 897C
- 89B
- 89C
- 89D
- 97B
- 9B
- BP
- W; WATER

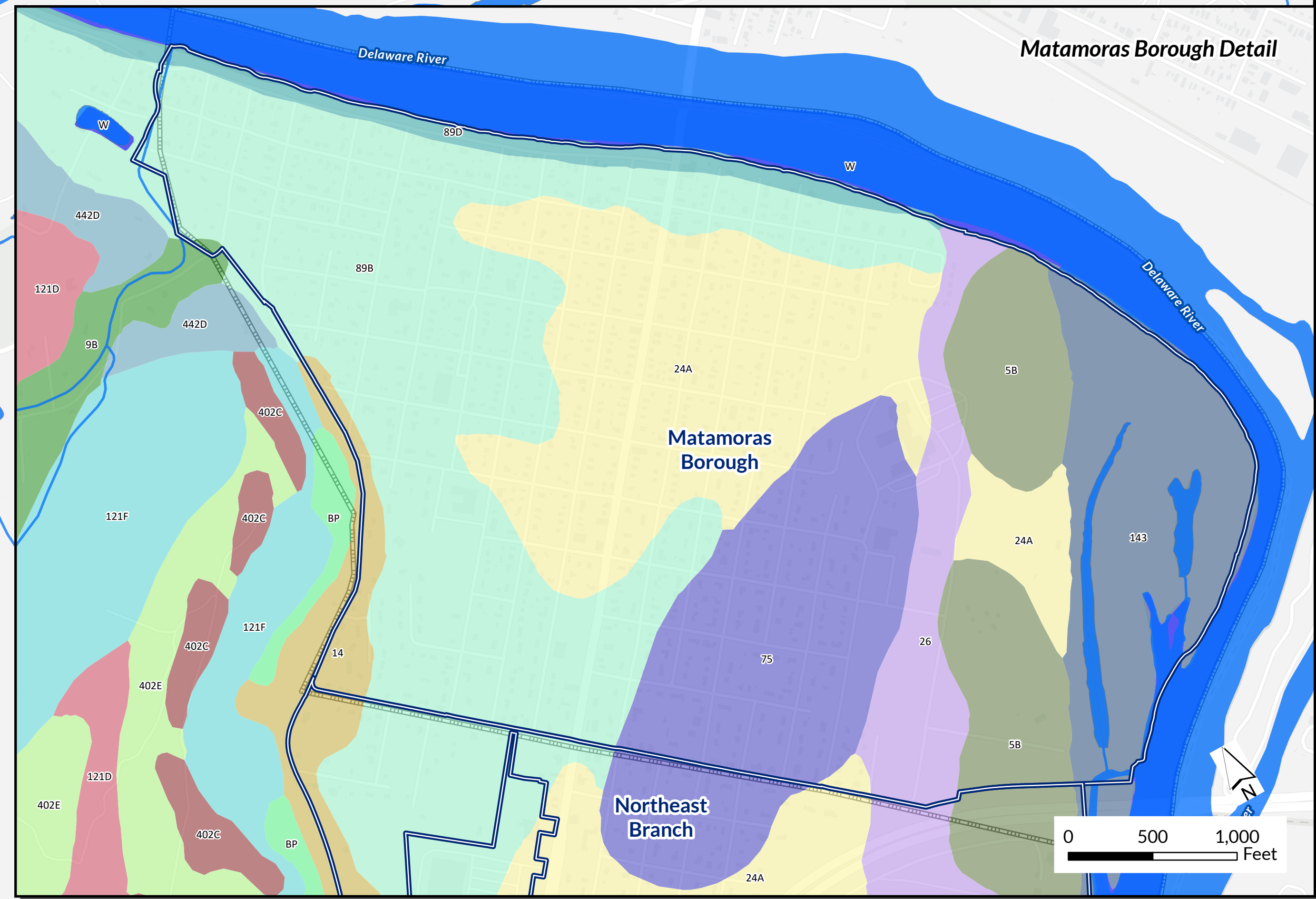
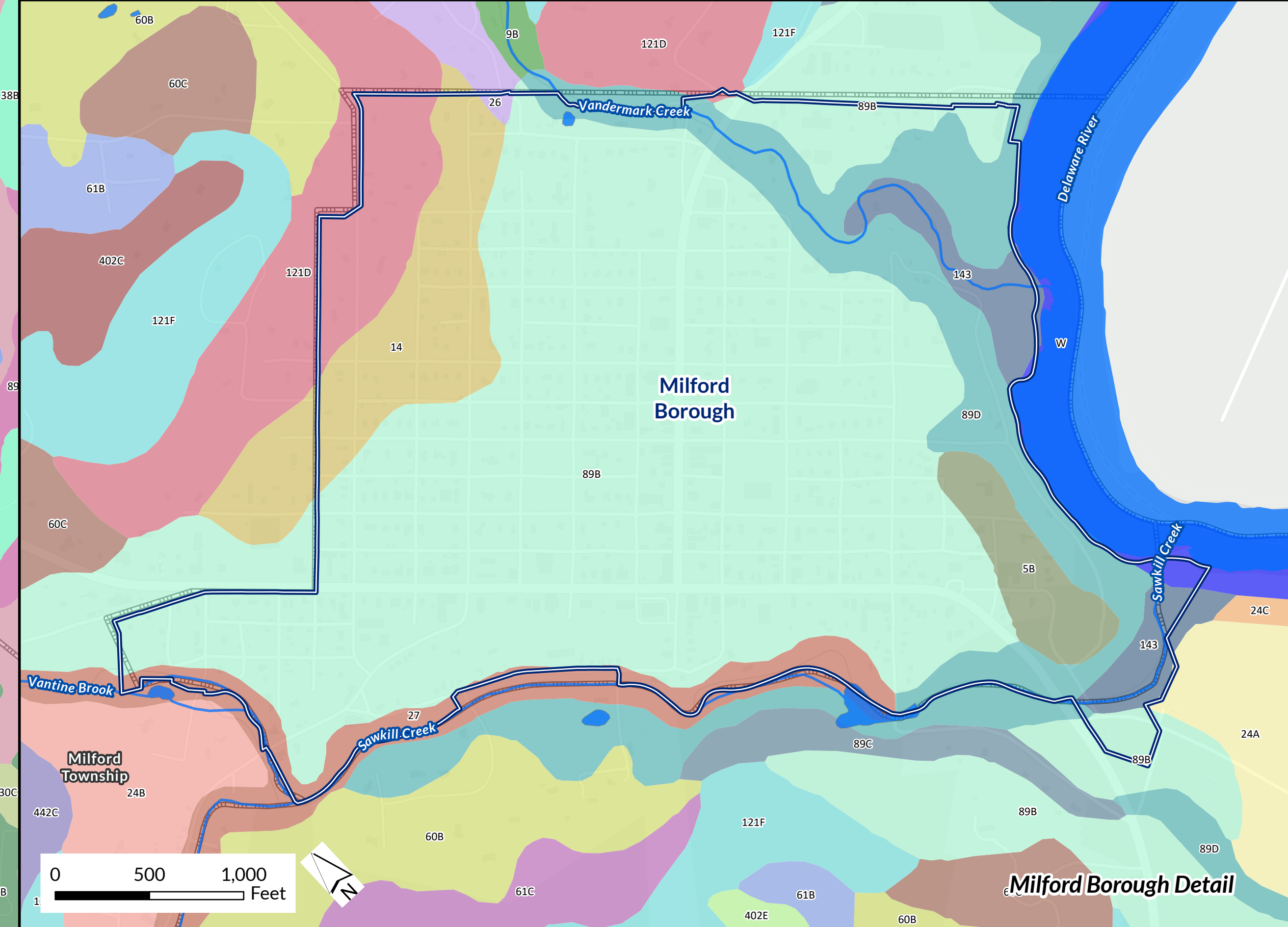
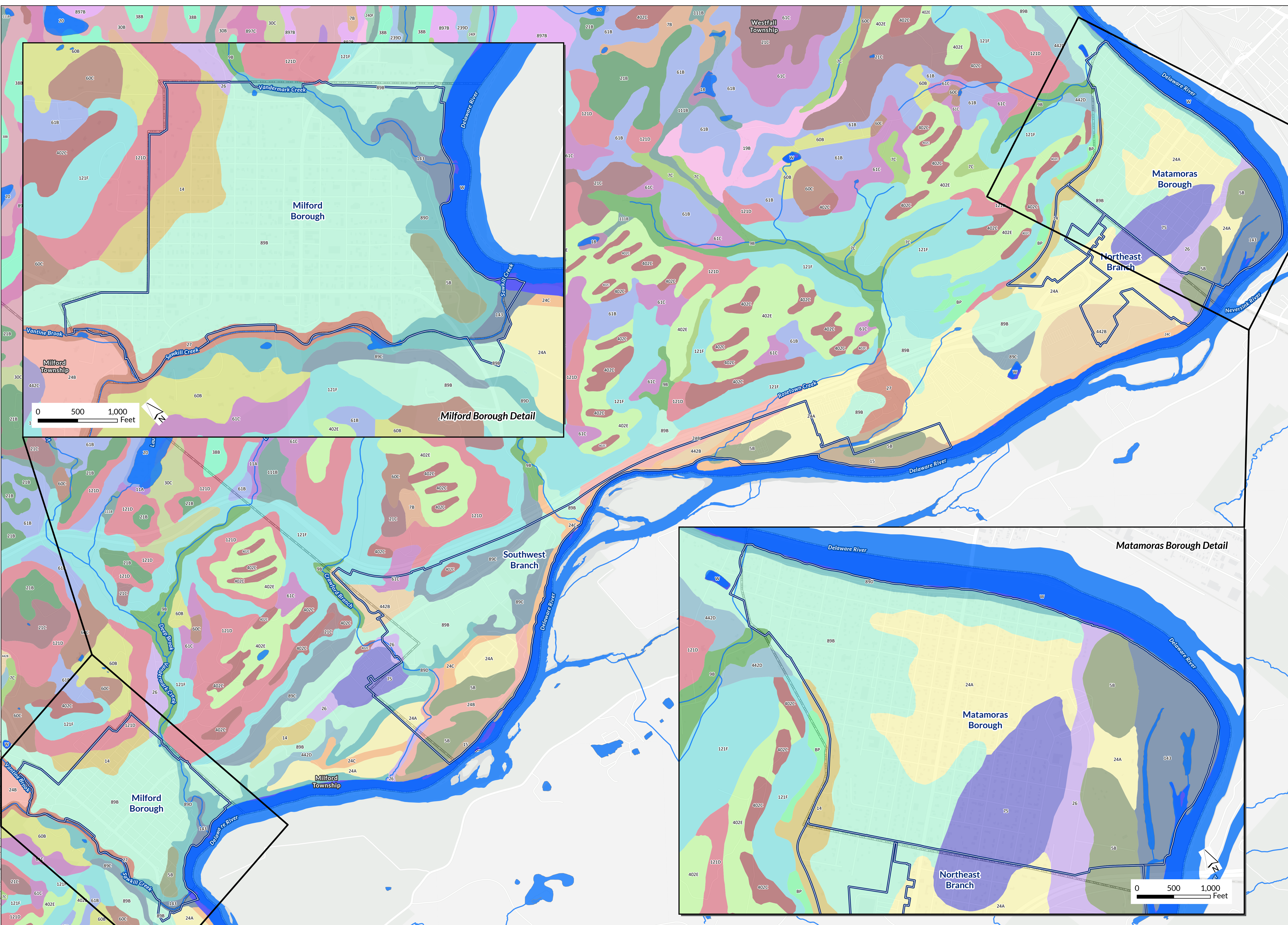
Soil data from USDA NRCS Web Soil Survey Accessed 2024-08-28

Tabular: Version 16, Sep 7, 2023 Spatial: Version 4, Sep 17, 2019

1,000 0 1,000 Feet

8/28/2024 PM: MR GIS: ALV QA: MR R003054.0448

501 Allendale Road Suite 202 King of Prussia, PA 19406 484.460.7150 (phone) www.hrg-inc.com



0 500 1,000 Feet

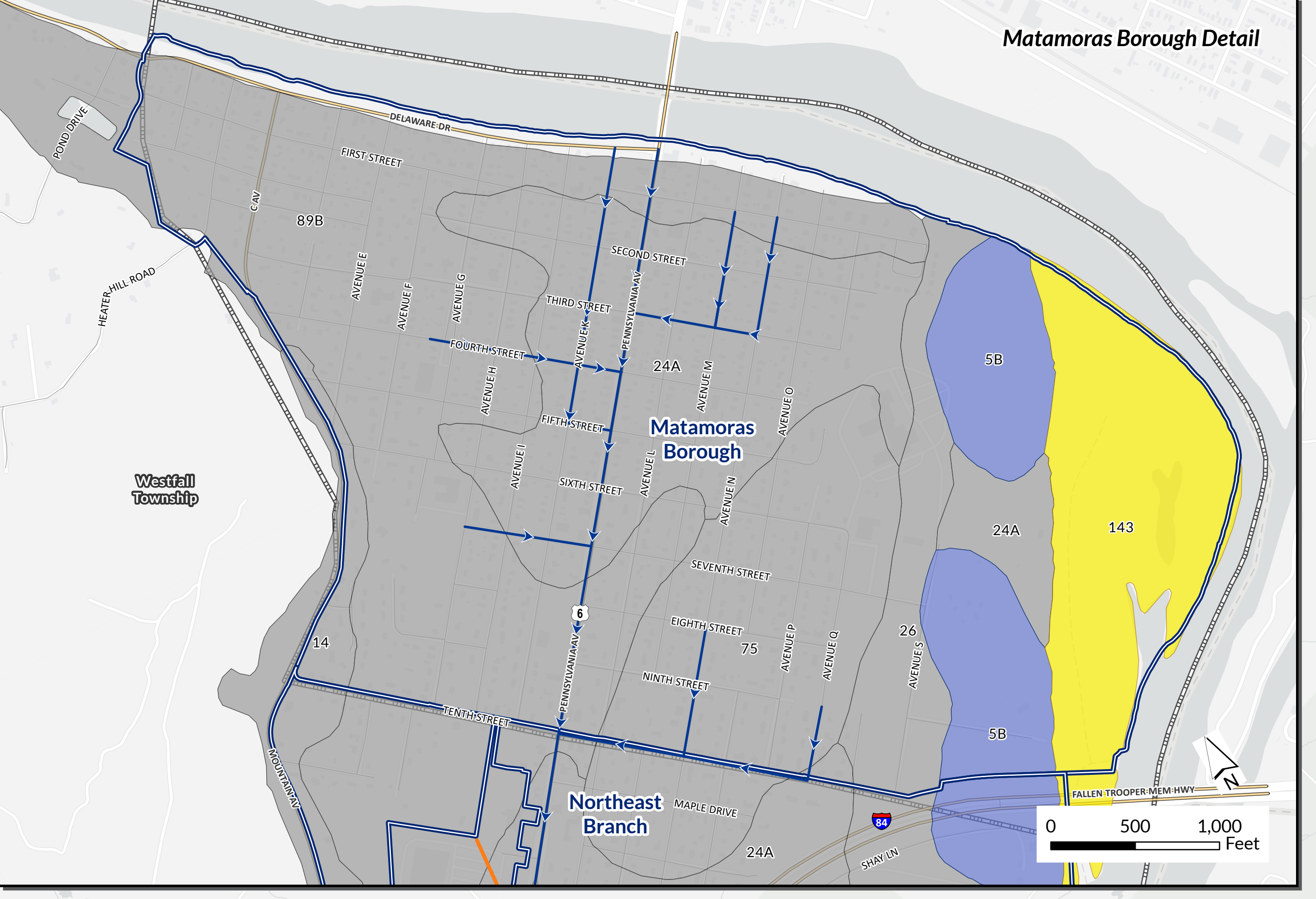
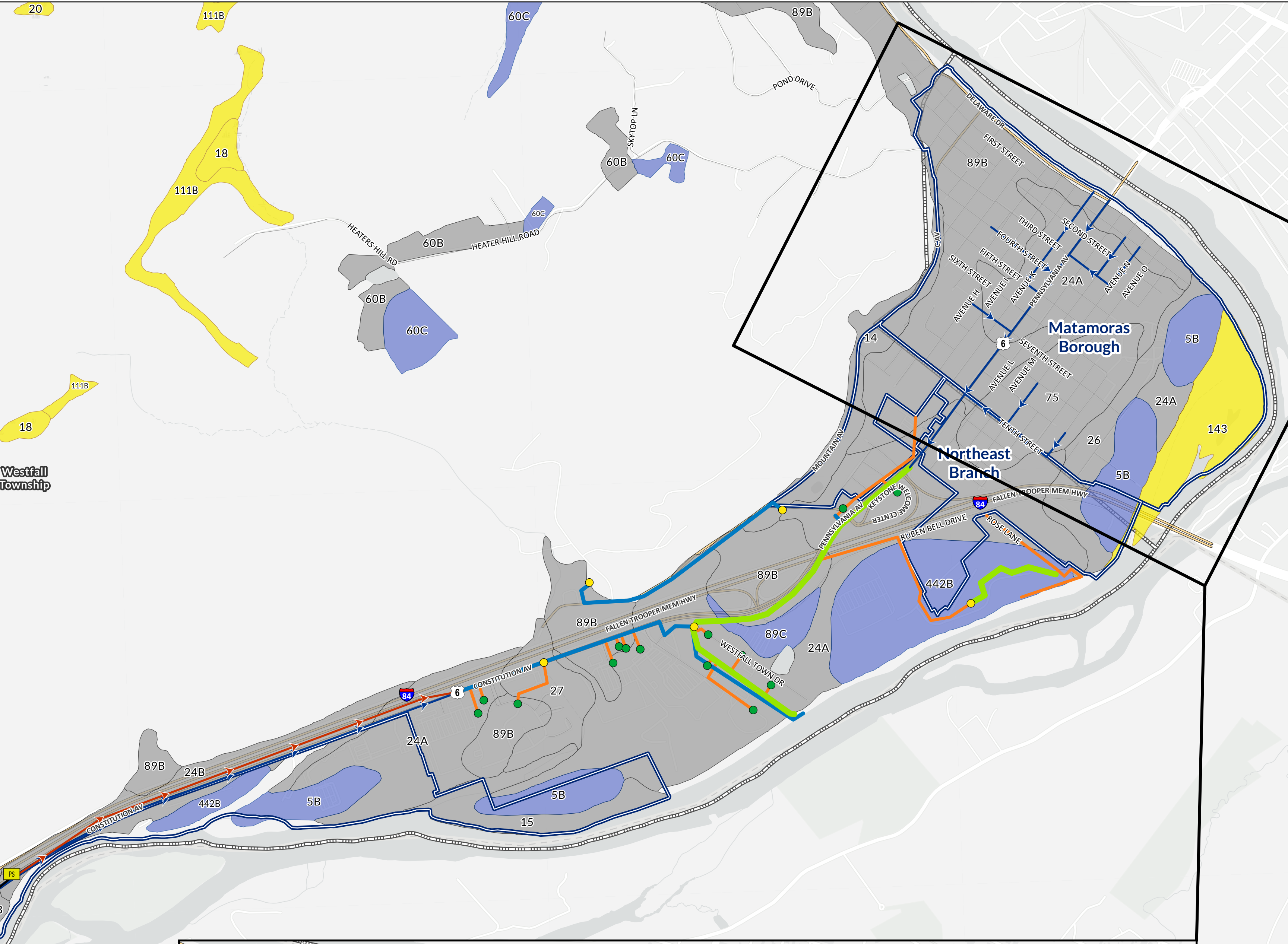
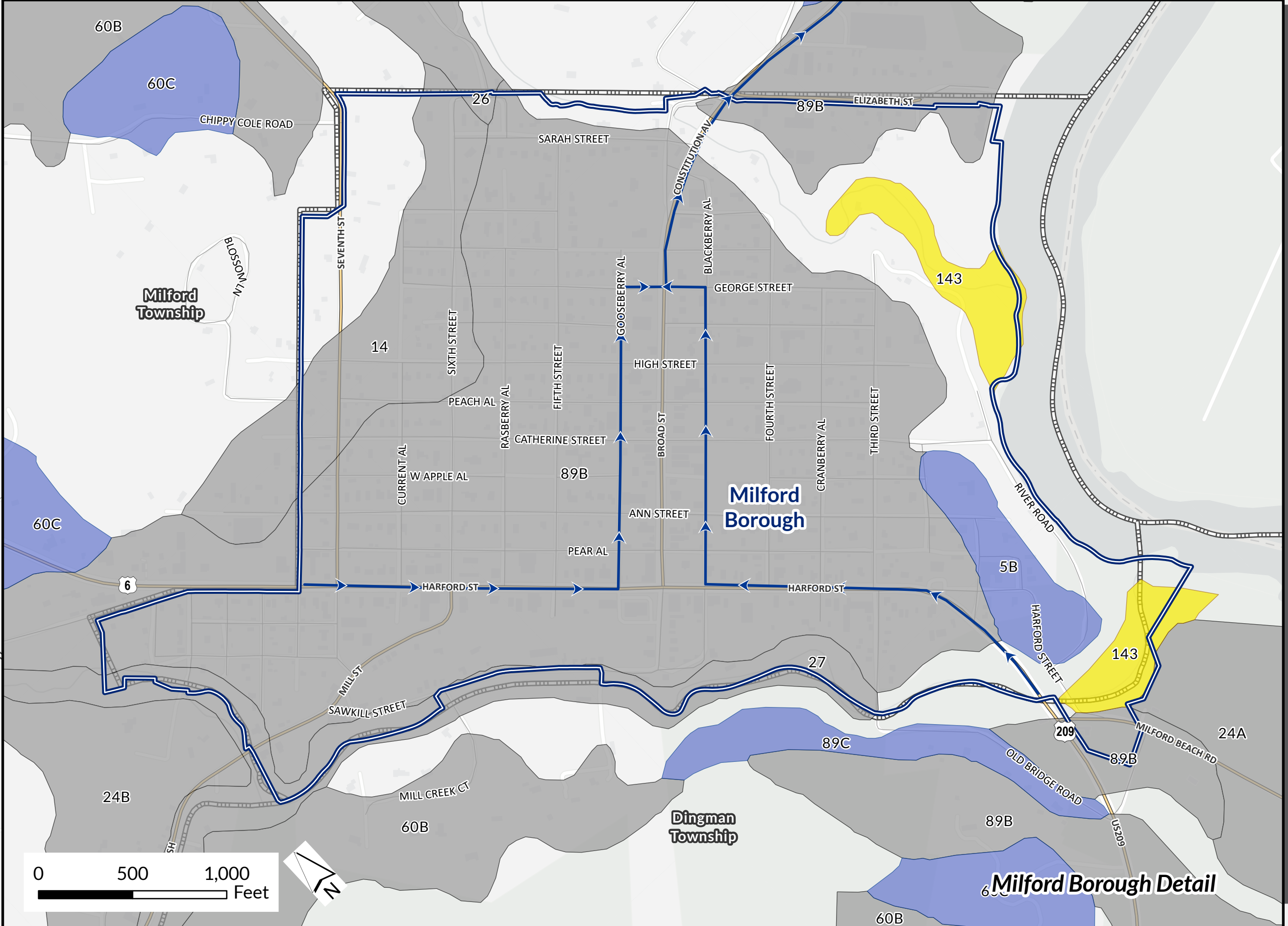
0 500 1,000 Feet

Soil Designations

Map 4

Pike County, Pennsylvania

- Alternative 1B Low pressure main
- Alternative 3A Pump Station
- Alternative 3A Gravity Main
- Alternative 3A Force Main
- Alternative 4B Low pressure main
- Study Areas
- Existing Pump Station
- Authority Owned Pump Station
- Privately Owned Pump Station
- Existing Sanitary Sewer Pipe
- 4" or less Force Main
- 6" Force Main
- 8" Force Main
- Hydric Soils
- Farmland of Statewide Importance
- Prime Agricultural Soils
- Interstate
- State Roads
- Local Roads
- Municipal Boundary



Soil data from USDA NRCS Web Soil Survey Accessed 2024-08-28

Tabular: Version 16, Sep 7, 2023 Spatial: Version 4, Sep 17, 2019

1,000 0 1,000 Feet

Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

9/11/2024 PM: MR GIS: ALV QA: MR R003054-0448



Soil Suitability

Map 5

Pike County, Pennsylvania

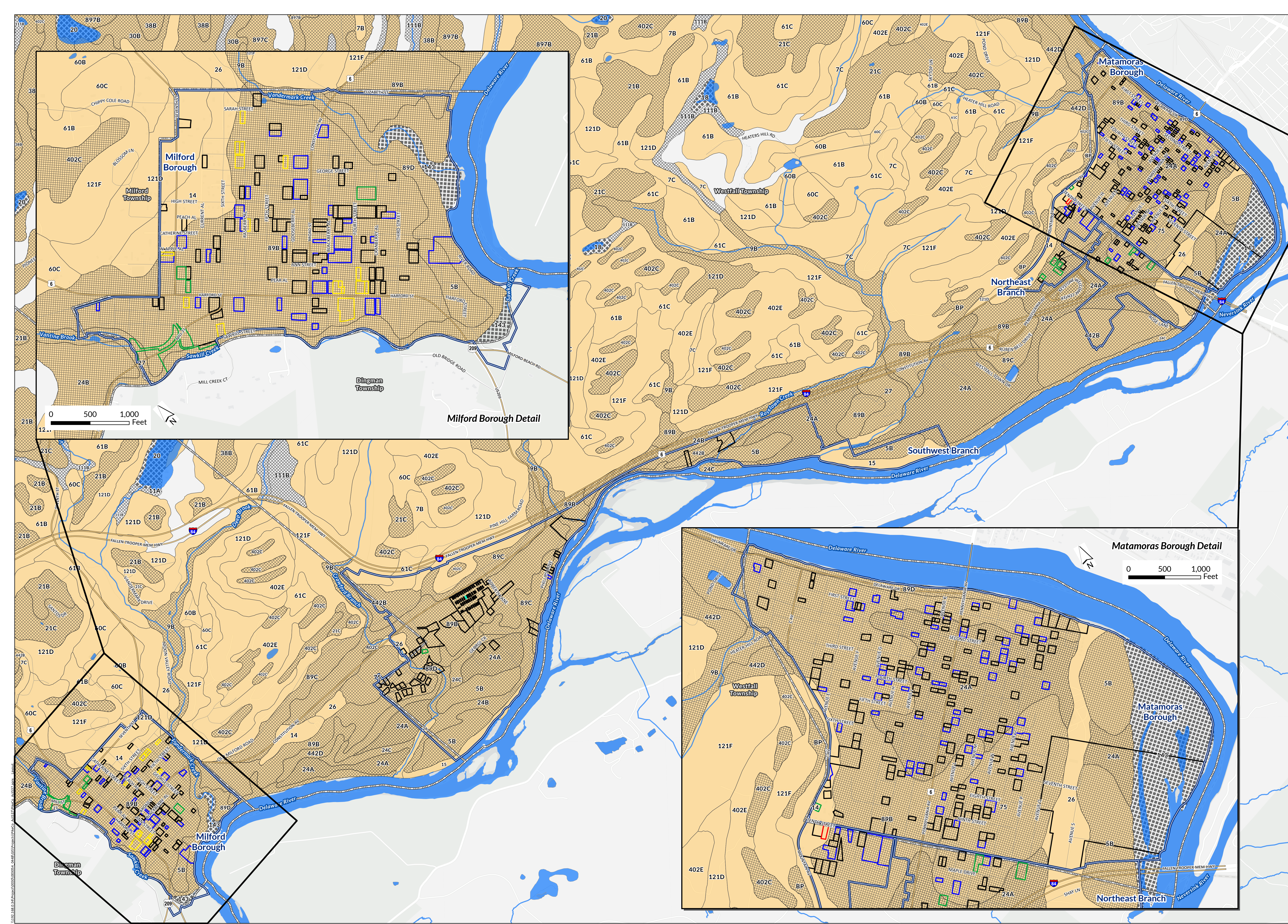
OLDS Type

- Cesspool (105)
- Septic Tank (254)
- None (15)
- Elevated Sand Mound (13)
- Community System (1)
- Dry Well (1)

- Suitable for Conventional In-Ground systems
- Unsuitable for Any System

- Suitable for Elevated Sand Mound
- Study Areas
- Interstate
- State Roads
- Local Roads
- Municipal Boundary
- Waterbody

Soil type 27 is marginal for conventional and suitable for sand mound



Milford Borough Detail

Matamoras Borough Detail

0 500 1,000 Feet

0 500 1,000 Feet

Soil data from USDA NRCS Web Soil Survey 2020

1:000 0 1:000 Feet









Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

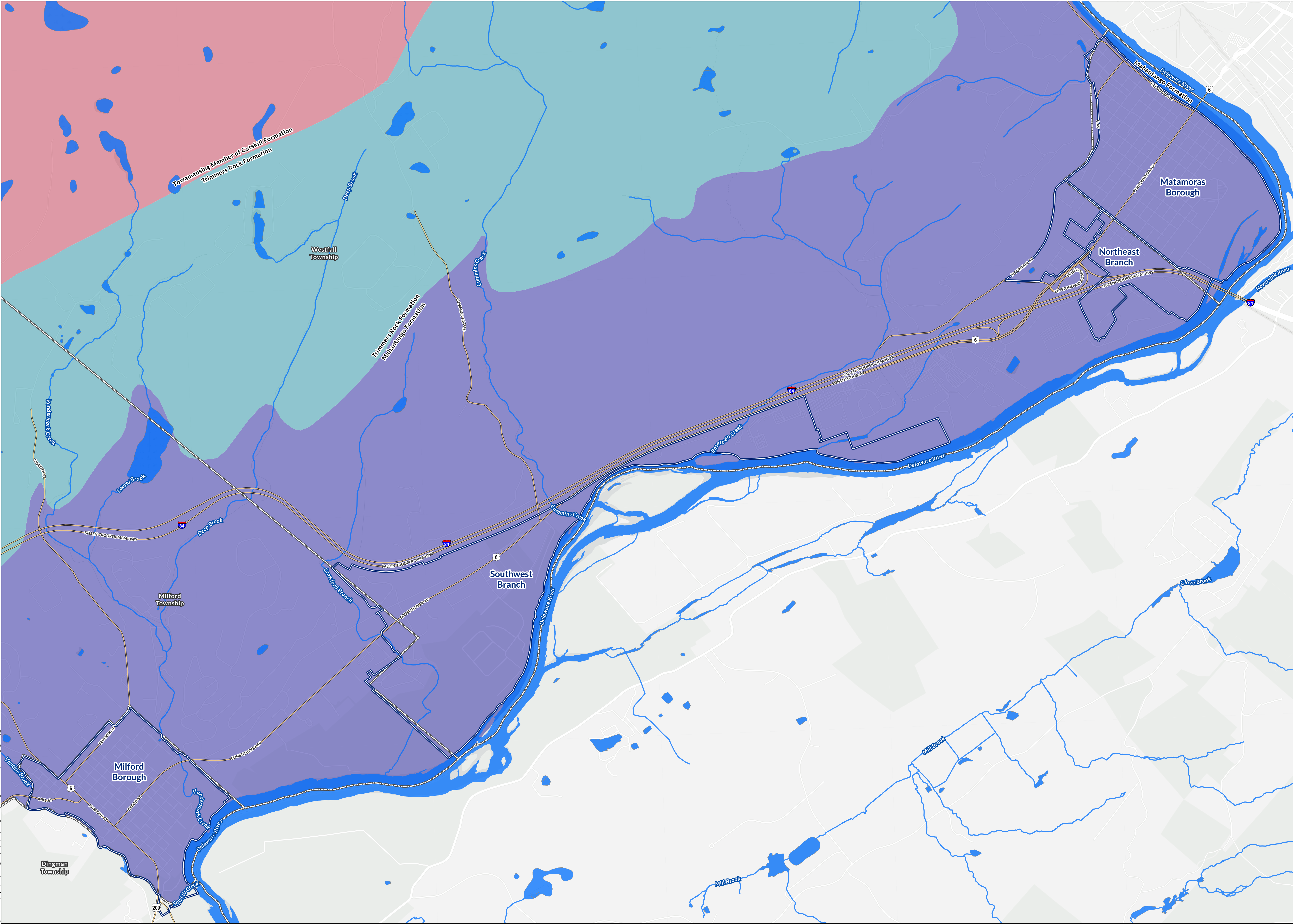
9/26/2024 PM: MR GIS: ALV QA: MR R003054-0448

Geology

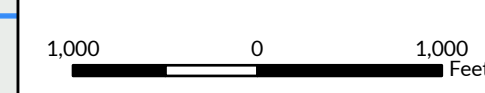
Map 6

Pike County, Pennsylvania

-  Study Areas
- Geologic Formations**
-  Mahantango Formation
-  Towamensing Member of Catskill Formation
-  Trimmers Rock Formation
-  Interstate
-  State Roads
-  Municipal Boundary
-  Waterbody



Geology data from PA DCNR, 2020










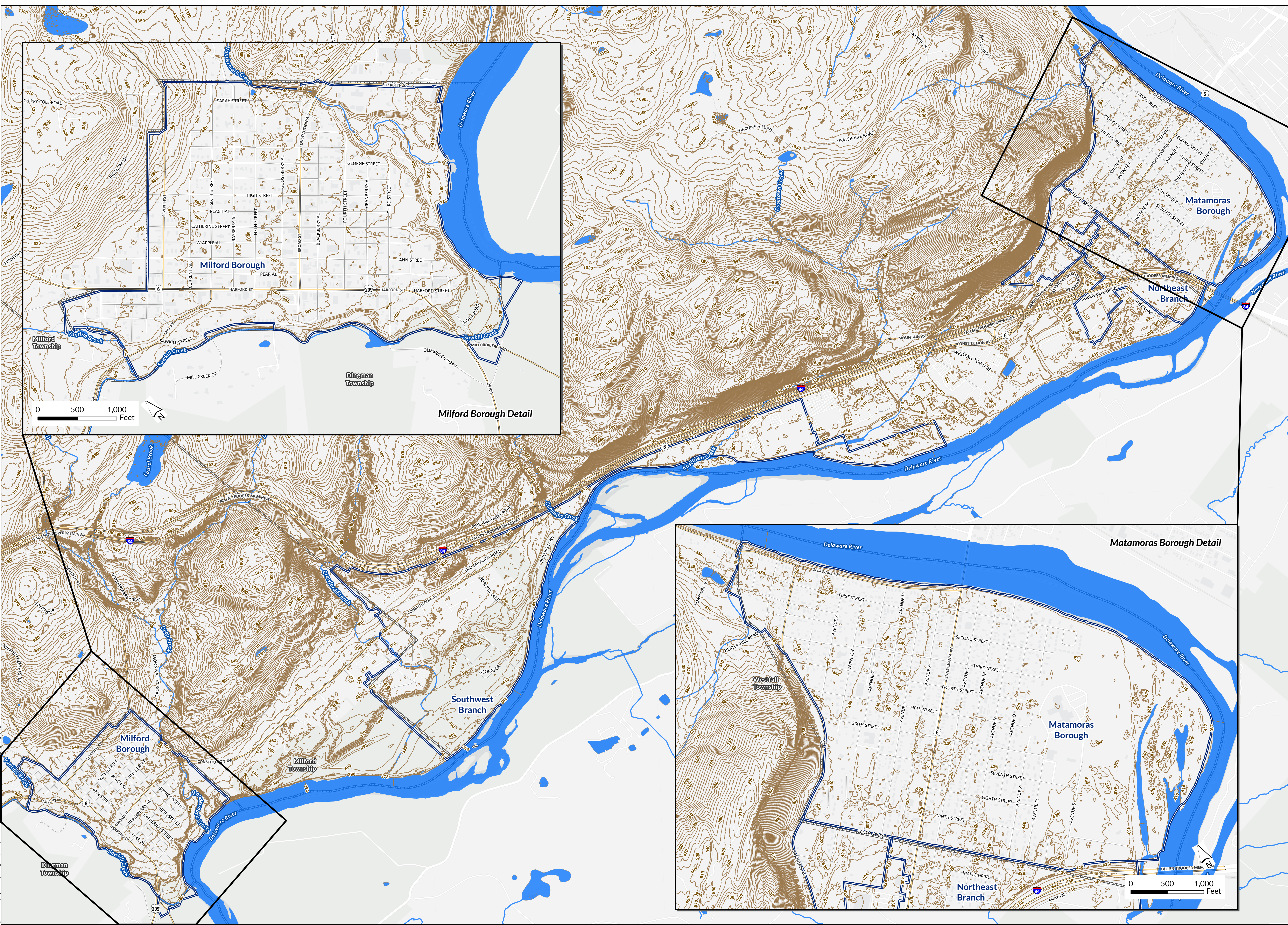
Mapping derived from data provided by ESRI, PennDOT, Pike County, PA DCNR, and USGS.

8/29/2024 PM: MR GIS: ALV QA: MR R003054-0448

HRG 501 Allendale Road Suite 202 King of Prussia, PA 19406 484.460.7150 (phone) www.hrg-tic.com

\\SRV168103\Projects\2024\080504_0448\GIS\Projects\PA605_44537\Map6_Geology_242616

-  Study Areas
-  10ft contours
-  Waterbody
-  Municipal Boundary
-  Interstate
-  State Roads
-  Local Roads



0 500 1,000
Feet

Milford Borough Detail

Matamoras Borough Detail

0 500 1,000
Feet

Soil data from USDA NRCS
Web Soil Survey
Accessed 2024-08-28
Tabular: Version 16, Sep 7, 2023
Spatial: Version 4, Sep 17, 2019

1:000 0 1:000
Feet

Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

8/29/2024 PM: MR GIS: ALV QA: MR 0003054.0448

OLDS Status and Sampling Results

Map 8

Pike County, Pennsylvania

HRG Survey and Sampling Results

On-Lot Malfunction Status

- No Malfunction (208)
- Suspected (187)
- Confirmed (16)

Well Water Nitrate-Nitrite (mg/L)

- < 1 mg/L (11)
- < 2.5 mg/L (13)
- Not Detected (8)

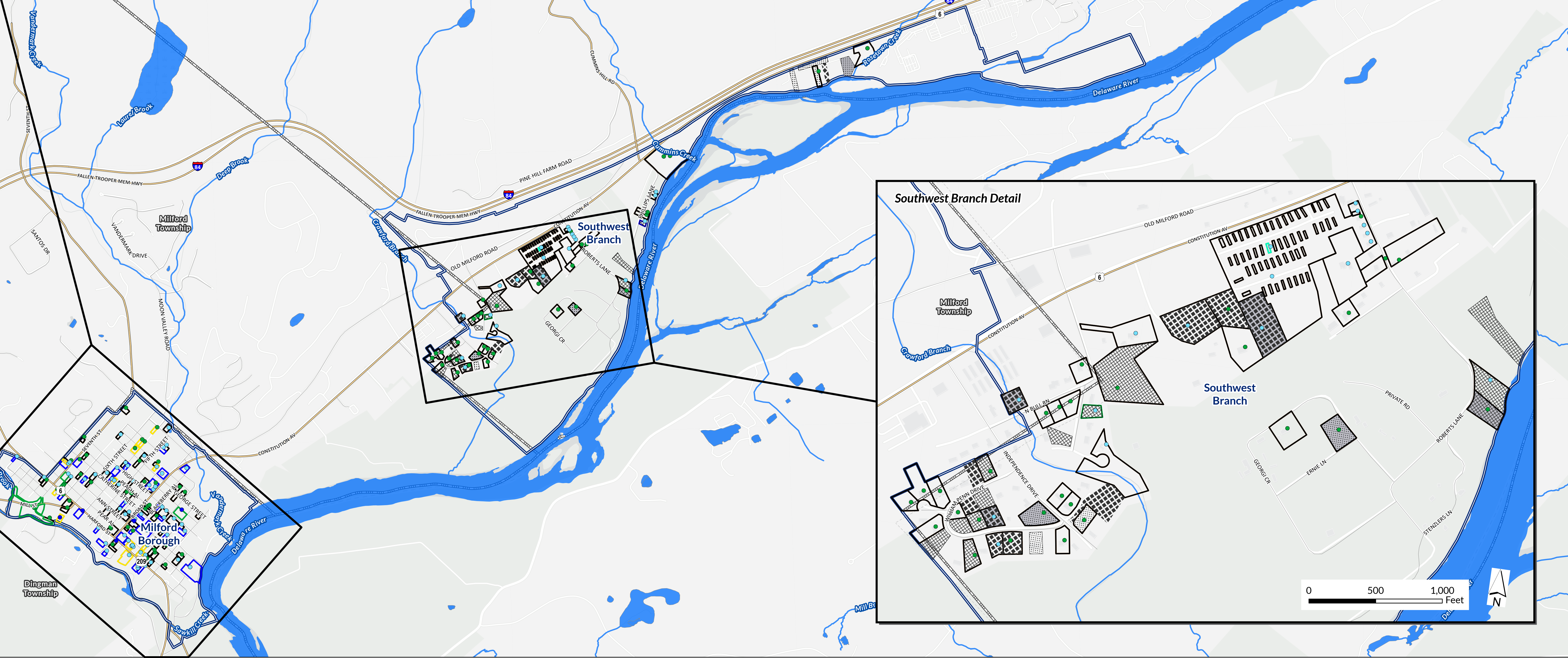
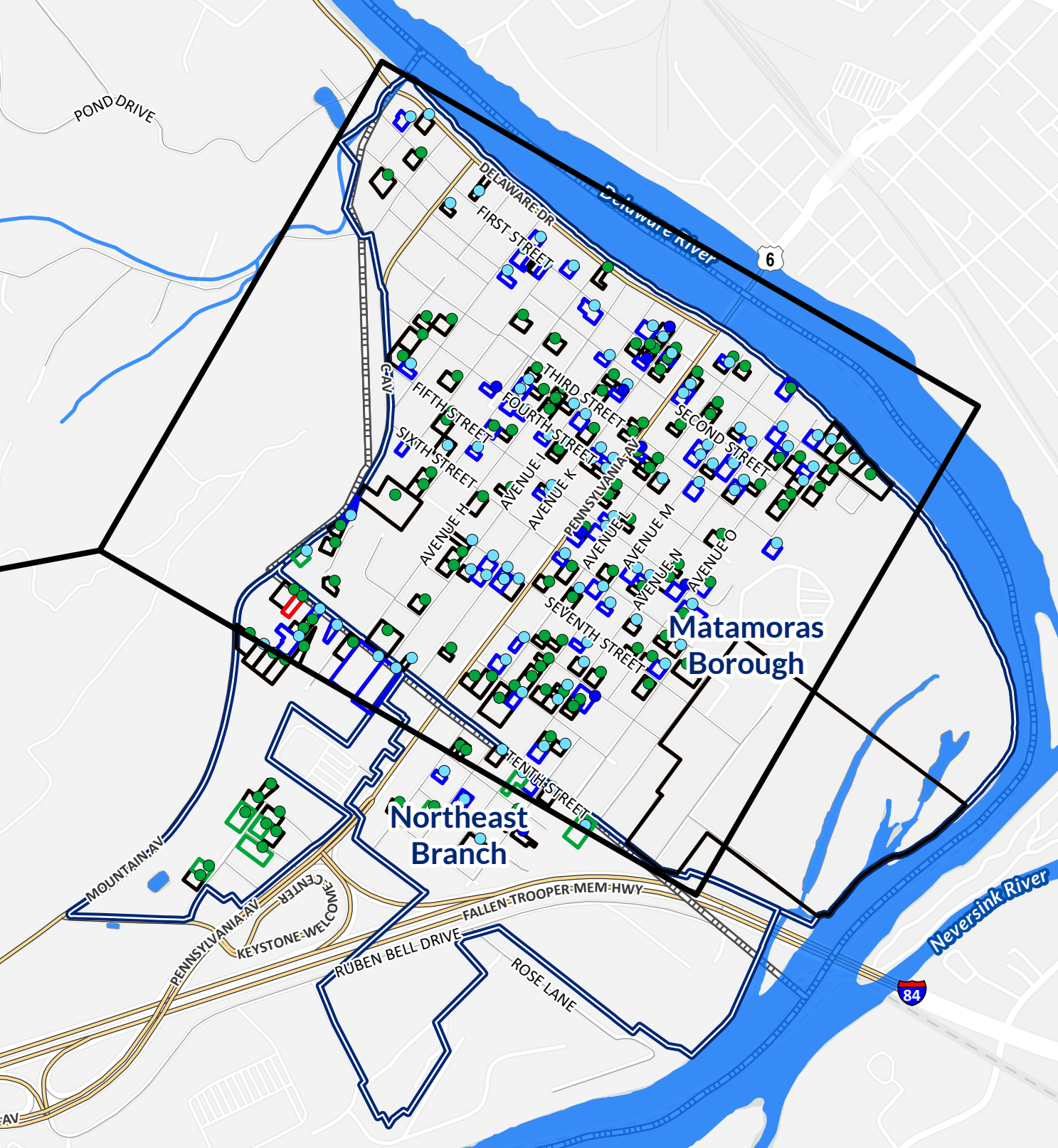
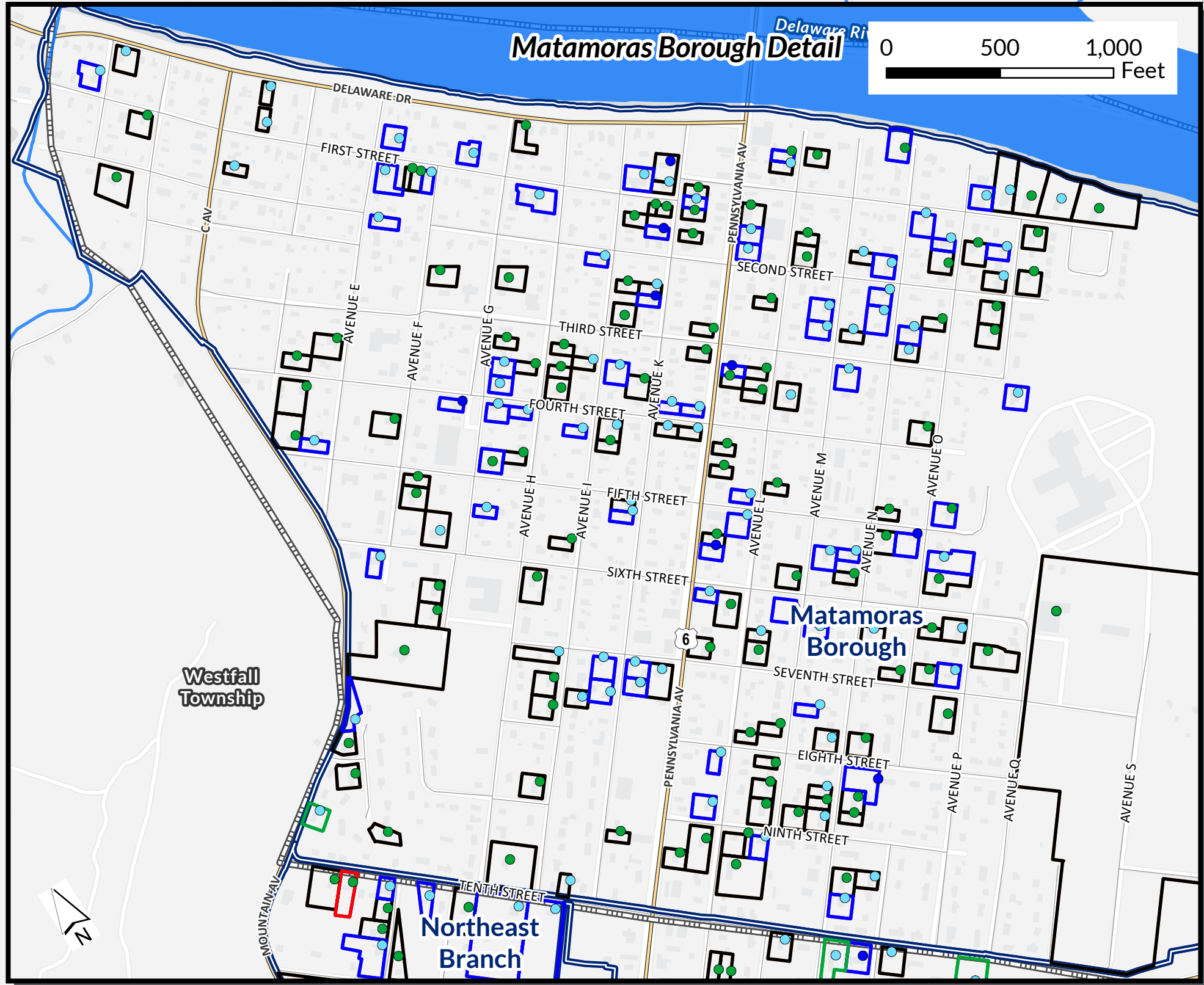
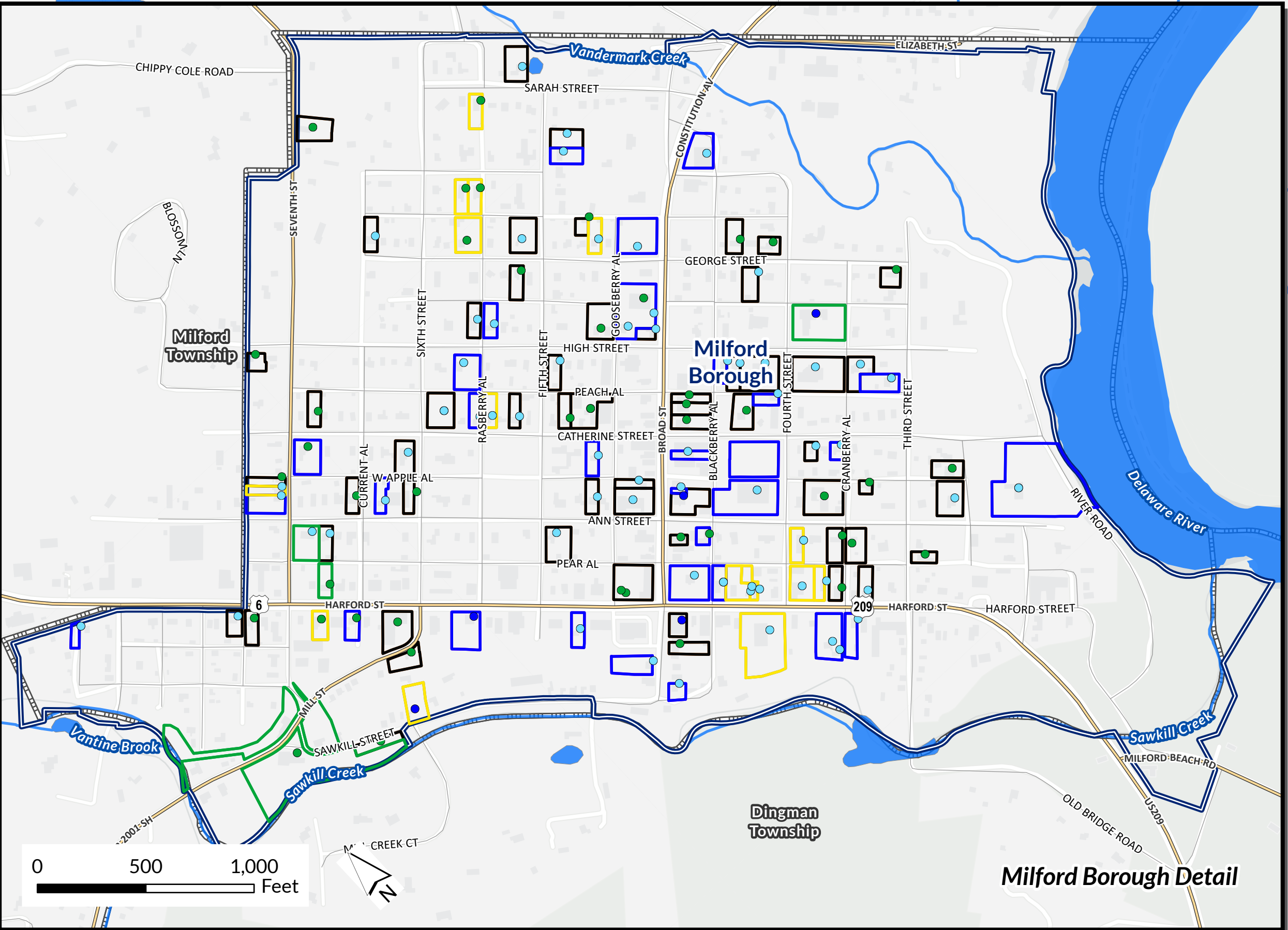
Well Water (Total Coliform)

- Present (7)

OLDS Type

- Septic Tank (254)
- Cesspool (105)
- Other (15)
- Elevated Sand Mound (13)
- Community System (1)
- Dry Well (1)

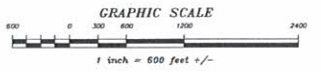
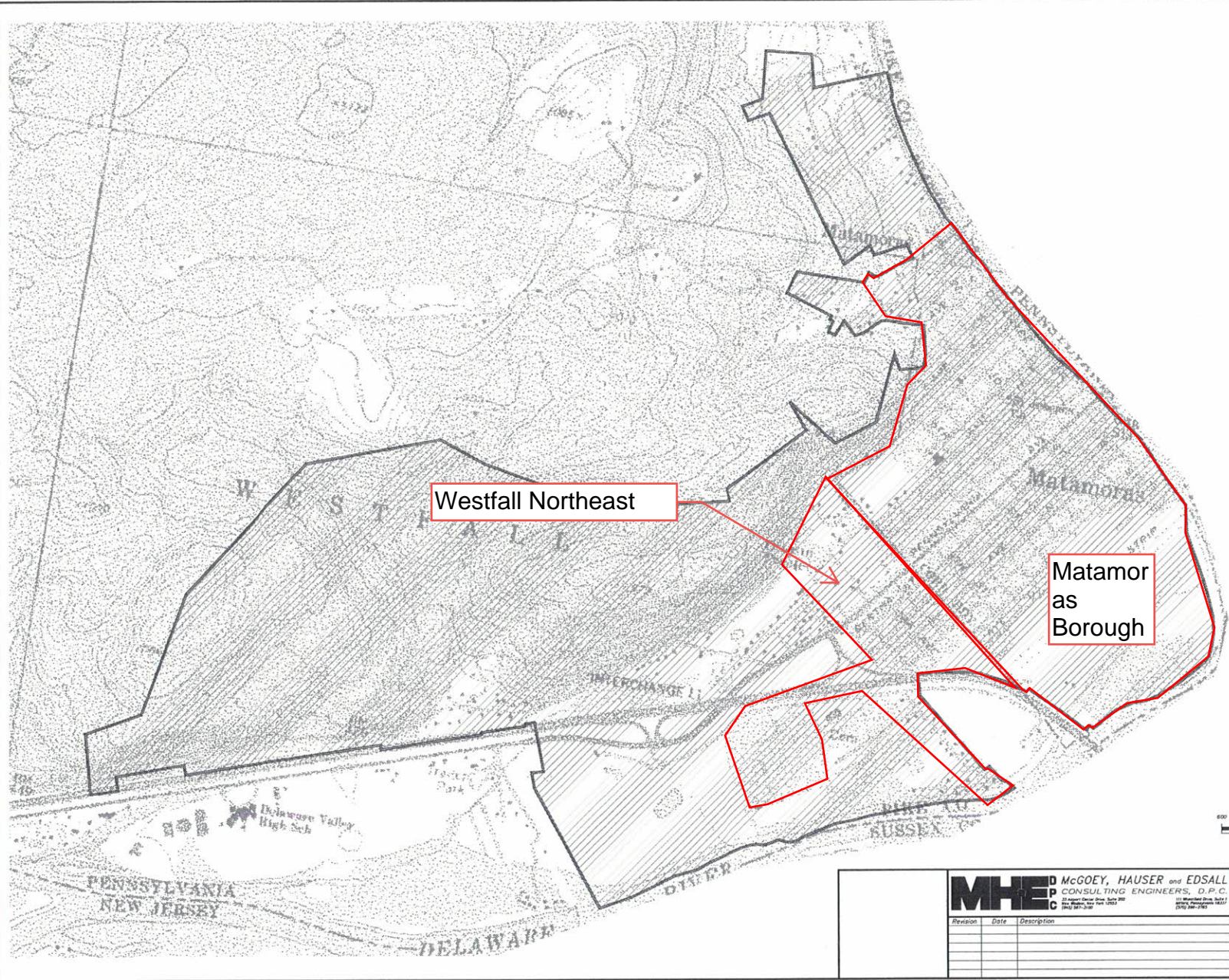
- Waterbody
- Interstate
- State Roads
- Local Roads
- Municipal Boundary
- Study Areas



1,000 0 1,000 Feet

Mapping derived from data provided by ESRI, PennDOT, Pike County, USDA NRCS, and USGS.

9/27/2024 PM: MR GIS: ALV QA: MR R003054.0448



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MHEC McGOEY, HAUSER and EDSALL CONSULTING ENGINEERS, D.P.C. <small>1100 North 10th Street, Suite 200 Matamoras, PA 18204 (610) 261-2100</small>			Plans for: MATAMORAS MUNICIPAL AUTHORITY																																			
			Matamoras Borough & Westfall Township, Pike County, PA																																			
<table border="1"> <thead> <tr> <th>Revision</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Revision	Date	Description																												<table border="1"> <tr> <td> <input type="checkbox"/> Concept <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final <input type="checkbox"/> Construction </td> <td rowspan="2" style="text-align: center; vertical-align: middle;"> WATER SUPPLY SERVICE AREA MAP </td> <td rowspan="2" style="text-align: center; vertical-align: middle;"> 1 </td> </tr> <tr> <td> Design: M.S.S. Drawn: H.P.B. Eng. Checked: Reviewed: Date: 3/1/98 Job No: 87-180 Task No: 00-00 </td> </tr> </table>		<input type="checkbox"/> Concept <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final <input type="checkbox"/> Construction	WATER SUPPLY SERVICE AREA MAP	1	Design: M.S.S. Drawn: H.P.B. Eng. Checked: Reviewed: Date: 3/1/98 Job No: 87-180 Task No: 00-00
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Westfall- Southwest

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Milford Water Authority
WATER SYSTEM INDEX MAP
 Date: June 2015

Milford Borough
 Planning Area

LEGEND

BB	BLUE BRUTE/C-900 PVC
CI	CAST IRON
CU	COPPER
DI	DUCTILE IRON
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
W	WATER (MAIN)
	FIRE HYDRANT
	GATE VALVE
	FLOW ARROW
	BLOWOFF

Color Coding Legend
 Link Diameter (in)

	<= 4.0
	<= 6.0
	<= 8.0
	<= 10.0
	<= 12.0