Appendix A: Data Collection and Generation

Existing data sources were used to gather information on the existing stormwater system and potential problem areas. Additionally, HR Green processed topographic data in GIS to create layers for use in investigating concerns and defining solutions.

Ownership of Stormwater Collection System. The Metropolitan St. Louis Sewer District (MSD) maintains a GIS database of stormwater assets. Each asset's ownership is identified, with possible owners including MSD, St. Louis County, the Missouri Department of Transportation (MoDOT), the City of Sunset Hills, and private owners. MSD's database identifies two culverts as City-owned. The City may own more culverts and storm sewers than what is shown in the MSD system. The City should complete routine inspection of their culverts for possible maintenance, rehabilitation, or replacement. The City-owned culverts are listed below.

- An 18" corrugated metal pipe culvert under W Watson Road near Robyn Road
- A 24" polyethylene culvert under Kennerly Road near Hausfel Court

MSD Data. MSD provided information on 20 stormwater projects studied in Sunset Hills, which are listed in Table 1. A conceptual project scope and cost estimate was completed for each project. MSD's project implementation will occur over decades, so not all projects are currently scheduled or funded.

There are four projects scheduled between fiscal year 2028 and 2031. In addition to the list of projects, MSD provided project-specific data if available, including Preliminary Studies, project exhibits, project narratives, cost estimates, and project correspondence. The project-specific data is not included in this report and instead has been provided to the City of Sunset Hills separately. Information on the MSD-studied stormwater projects was referenced while investigating stormwater concerns.

Table 2: MSD Storm Projects in Sunset Hills

MSD Oracle Number	Project Name	Scheduled for Design
11028	Rott Road 9262 Bank Stabilization	-
11043	Middlewood Court Storm Sewer	FY28
11346	Eddie and Park Rd #11906 Storm Sewer	-
11374	Richview Dr – Watson Rd E. Bank Stabilization	-
11381	Watson E. to Rusdon Storm Improvements	-
11422	Elnore Drive – Kennerly Road Storm Sewer	-
11435	Hilltop Drive #9931 Bank Stabilization	FY30
11440	Gravois Industrial – Chateau Chura Channel Improvement	-
11498	Sappington Rd at Mattese Creek Culvert Replacement (MAT-38)	-
11510	Crestwick Dr #9901-9915 Storm Sewer	FY28
11527	Sappington Rd #9845 to 9859 Bank Stabilization	FY31
11531	Weber Hill – West Watson Bank Stabilization	-
11583	Meppen – Oleander Channel Improvements	-
11588	Meppen Drive #60 Storm Improvements	-
13298	Daybreak Estates #6 & #8 Storm Improvements	-
14033	Shadow Lane 12852 Storm Sewer	-
14143	Roosevelt Drive Storm Sewer	-
14144	Weber Hill Road 12515 Storm Sewer	-
14198	Sunset Greens Drive 9831 Storm Sewer	-
14256	Gravois Road 11634 Storm Sewer	-

Lastly, information on scheduled and unscheduled sanitary projects was also collected from MSD. This can be important information for several reasons. First, if planned construction occurs in an area where there is a stormwater concern, coordination with MSD could occur to help address the storm project with minimal additional cost. Another reason to be aware of MSD's sanitary projects is to help inform the public about what is going on in their neighborhood. Sometimes there is confusion between the sanitary sewer system and the stormwater system, so understanding MSD's planned sanitary sewer upgrades can help communication with the public.

Appendix A1 includes a map showing the location of each of the MSD studied storm and sanitary projects, both scheduled and unscheduled.

Floodplain. The current effective Flood Insurance Study is 29189CV001A, revised February 4, 2015, which includes all of St. Louis County. The floodplain mapping for St. Louis County is in the process of being revised and are expected to become effective in 2026 or 2027. HR Green obtained the preliminary models and mapping. The Missouri State Emergency Management Agency (SEMA) has recommended that St. Louis County communities use the preliminary maps as if they were effective. Appendix A2 includes the preliminary flood hazard zones in Sunset Hills. This information is useful in understanding whether an area is flood prone due to floodplain.

Flow Path and Watershed Maps. HR Green utilized the GIS software ArcGIS Pro to generate maps which show hydrologic features – flow paths and watersheds. See Appendix A3. These features were created using LiDAR ground elevations. Flow paths show the path of water flowing on the ground surface. The flow path line begins where there is at least one acre of tributary drainage area. Flow paths can be ditches, swales, gutters, or creeks. Flow paths represent the way water moves through an area.

A watershed map was also created for the City of Sunset Hills. This map shows the tributary area to various points throughout the City. Knowing the tributary drainage area to a property is helpful to understand where runoff is coming from and to get a sense of the scale of a problem.

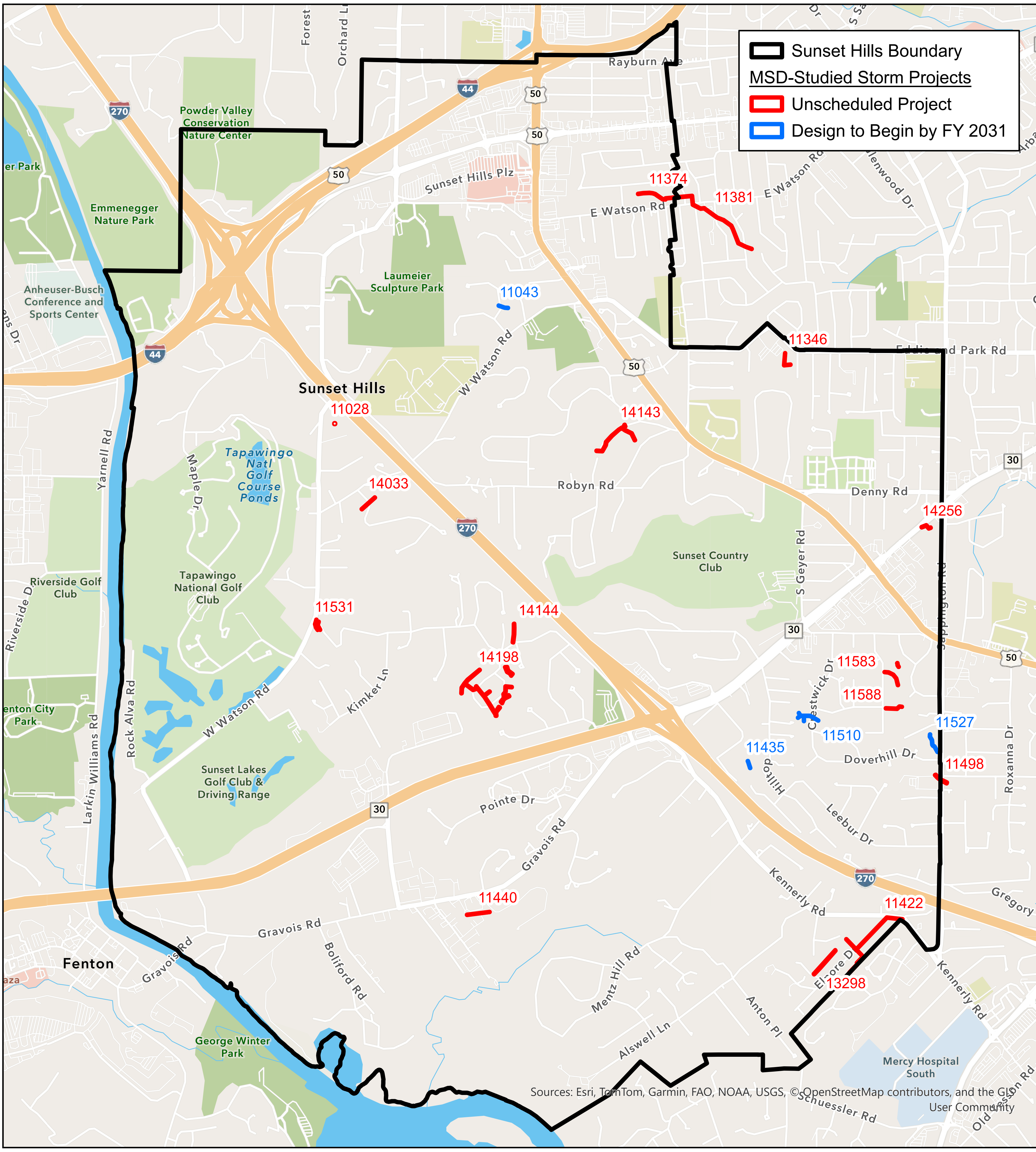
Stream Buffer Maps. HR Green also generated stream buffer maps using the GIS software ArcGIS Pro. These maps show the potential risk of erosion near creeks. There are three levels of risk based on the ratio of the bank height over the horizontal distance to the structure, both in feet. The risk levels are:

- Chronic – a ratio greater than 0.70
- Frequent – a ratio between 0.36 and 0.70
- Infrequent – a ratio between 0.15 and 0.35.

These risk levels coincide with MSD's definition of chronic, frequent, and infrequent risk of erosion in their benefit point calculation. See Appendix A4 for the Stream Buffer Maps. These maps can be used to better understand the locations where there is potential for erosion risk to structures. A geomorphic assessment of the creek should be completed by an engineer or scientist if erosion is threatening a structure.

Appendix A1: MSD-Studied Storm Projects in Sunset Hills

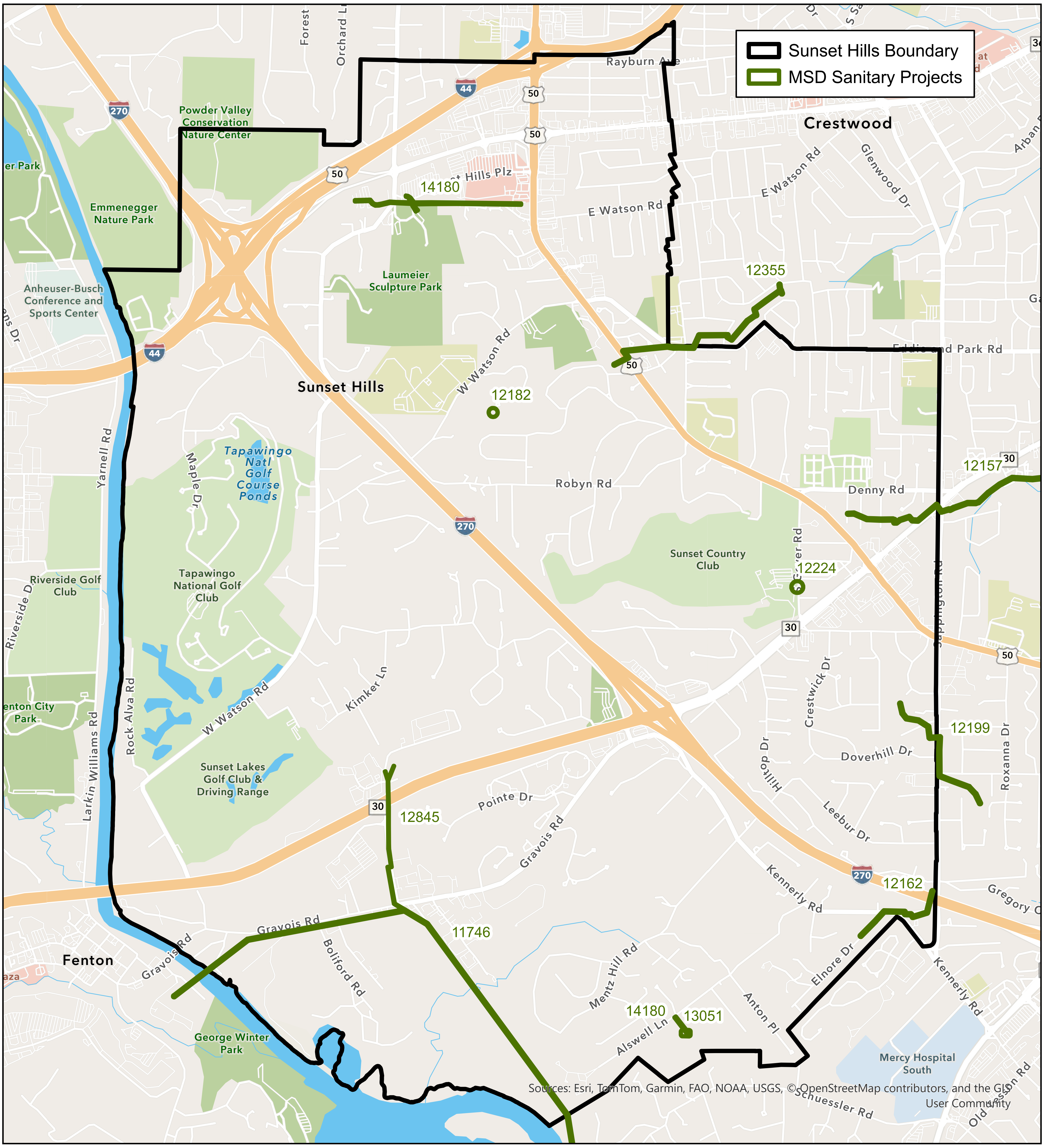
Appendix A1: MSD-Studied Storm Projects in Sunset Hills



Oracle Number	Project Name	Fiscal Year
11028	ROTT ROAD 9262 BANK STABILIZATION	-
11043	MIDDLEWOOD COURT STORM SEWER	FY28
11346	EDDIE AND PARK RD. #11906 STORM SEWER	-
11374	RICHVIEW DR. - WATSON RD. E. BANK STABILIZATION	-
11381	WATSON E. TO RUSDON STORM IMPROVEMENTS	-
11422	ELNORE DRIVE - KENNERLY ROAD STORM SEWER	-
11435	HILLTOP DRIVE #9931 BANK STABILIZATION	FY30
11440	GRAVOIS INDUSTRIAL - CHATEAU CHURA CHANNEL IMPROVEMENT	-
11498	SAPPINGTON RD. AT MATTESE CREEK CULVERT REPLACEMENT (MAT-38)	-
11510	CRESTWICK DR. #9901-9915 STORM SEWER	FY28
11527	SAPPINGTON RD. #9845 TO 9859 BANK STABILIZATION	FY31
11531	WEBER HILL - WEST WATSON BANK STABILIZATION	-
11583	MEPPEN - OLEANDER CHANNEL IMPROVEMENTS	-
11588	MEPPEN DRIVE #60 STORM IMPROVEMENTS	-
13298	DAYBREAK ESTATES #6 & #8 STORM IMPROVEMENTS	-
14033	SHADOW LANE 12852 STORM SEWER	-
14143	ROOSEVELT DRIVE STORM SEWER	-
14144	WEBER HILL ROAD 12515 STORM SEWER	-
14198	SUNSET GREENS DRIVE 9831 STORM SEWER	-
14256	GRAVOIS ROAD 11634 STORM SEWER	-

A2: MSD Sanitary Projects in Sunset Hills

Appendix A2: MSD Sanitary Projects in Sunset Hills



Oracle Number	Project Name	Design	Construction
11746	Lower Meramec River System Improvements - Baumgartner to Fenton WWTF Tunnel	-	FY26
12157	GC-06 Gravois Creek to Briarstone and Gates Sanitary Relief Phase 2	-	FY26
12162	Elnore Sanitary Relief (Roanna Ln to Elnore Dr)	FY27-29	FY30-32
12182	Fox Bridge Pump Station (P-484) Storage	-	FY28-29
12199	Sappington Sanitary Relief (Liberty Trail Dr to Oleander Dr)	FY26-28	FY29-31
12224	Sunset Country Club Pump Station (P-408) Storage	-	FY26-27
12355	Mulberry Creek Sanitary Relief (Harwich Dr to S Lindbergh Blvd)	-	FY26-27
12845	Friendship Village Pump Station (P-516) Elimination	FY29-30	FY31-32
13051	Alswell Pump Station (P-422) Rehabilitation	-	FY29-30
14180	South County Forcemain Replacement	FY25-29	FY25-29

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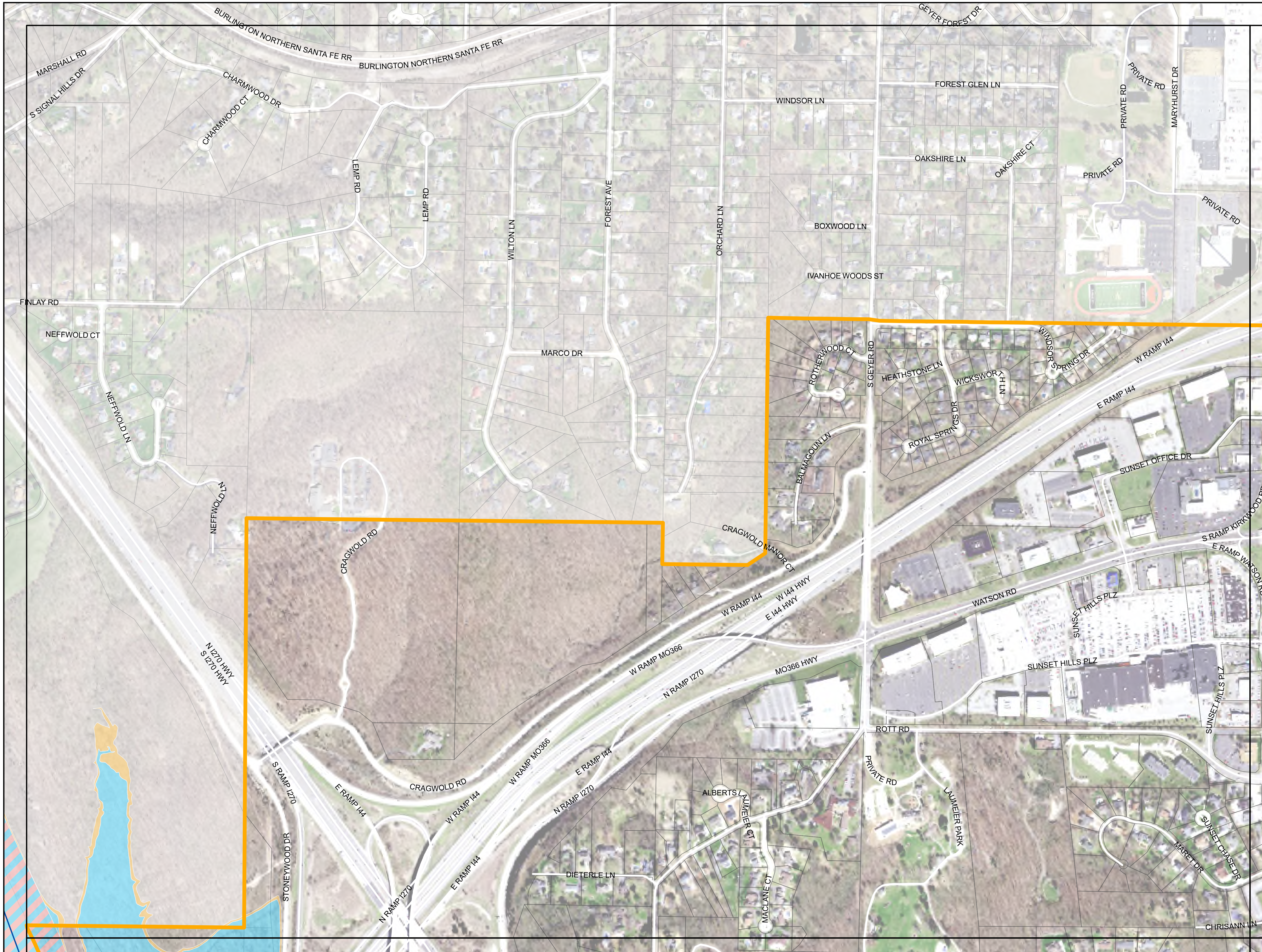
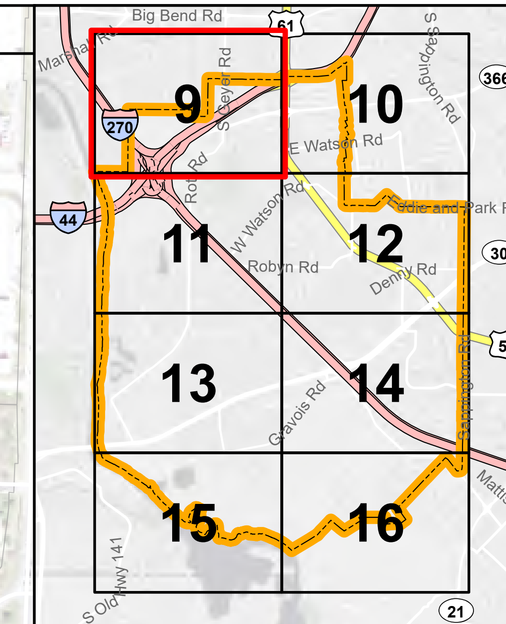
Appendix A3: Preliminary Flood Hazard Maps





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Sunset Hills Stormwater Master Plan

Appendix A3: Preliminary Flood Hazard Maps

Received from SEMA
on February 11, 2025

Legend

- Sunset Hills Boundary
- Stream Centerline

Preliminary Flood Zones

- Regulatory Floodway
- 1.0% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee

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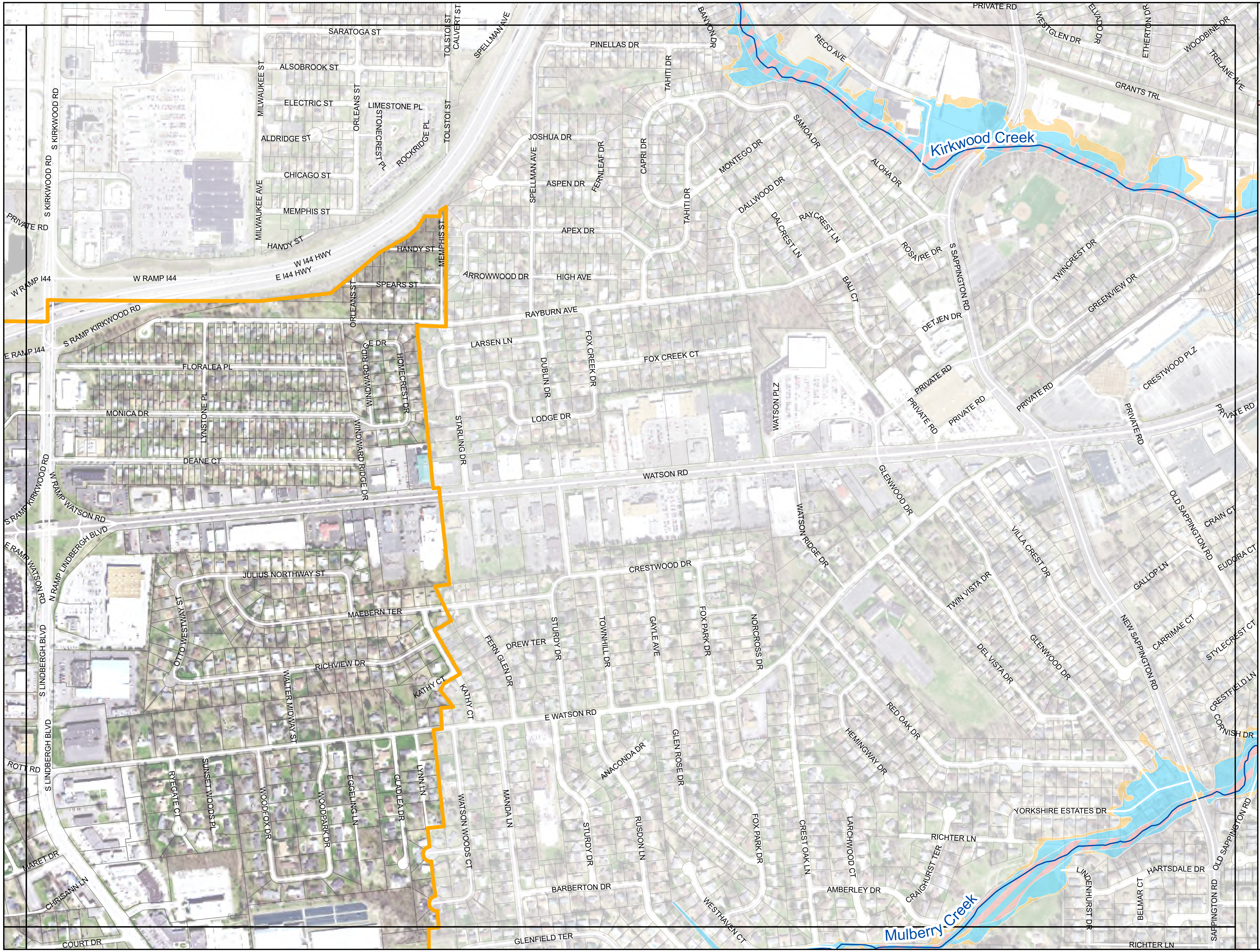
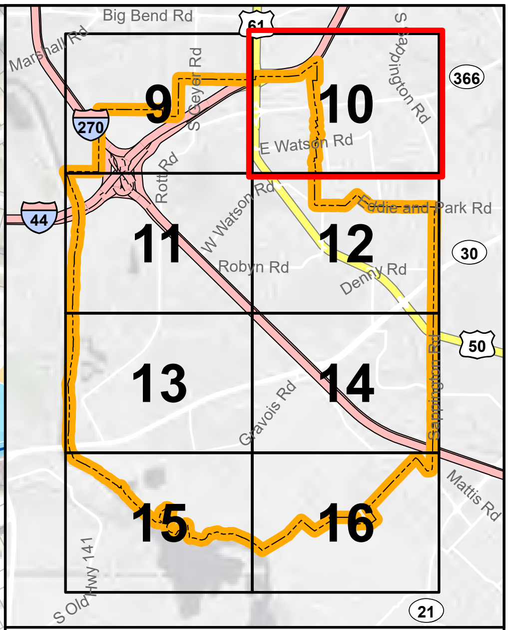
N

0 600 Feet
1 inch = 600 feet





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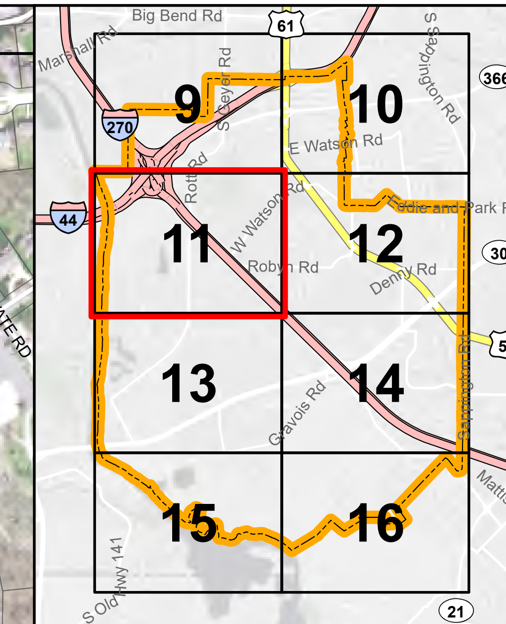

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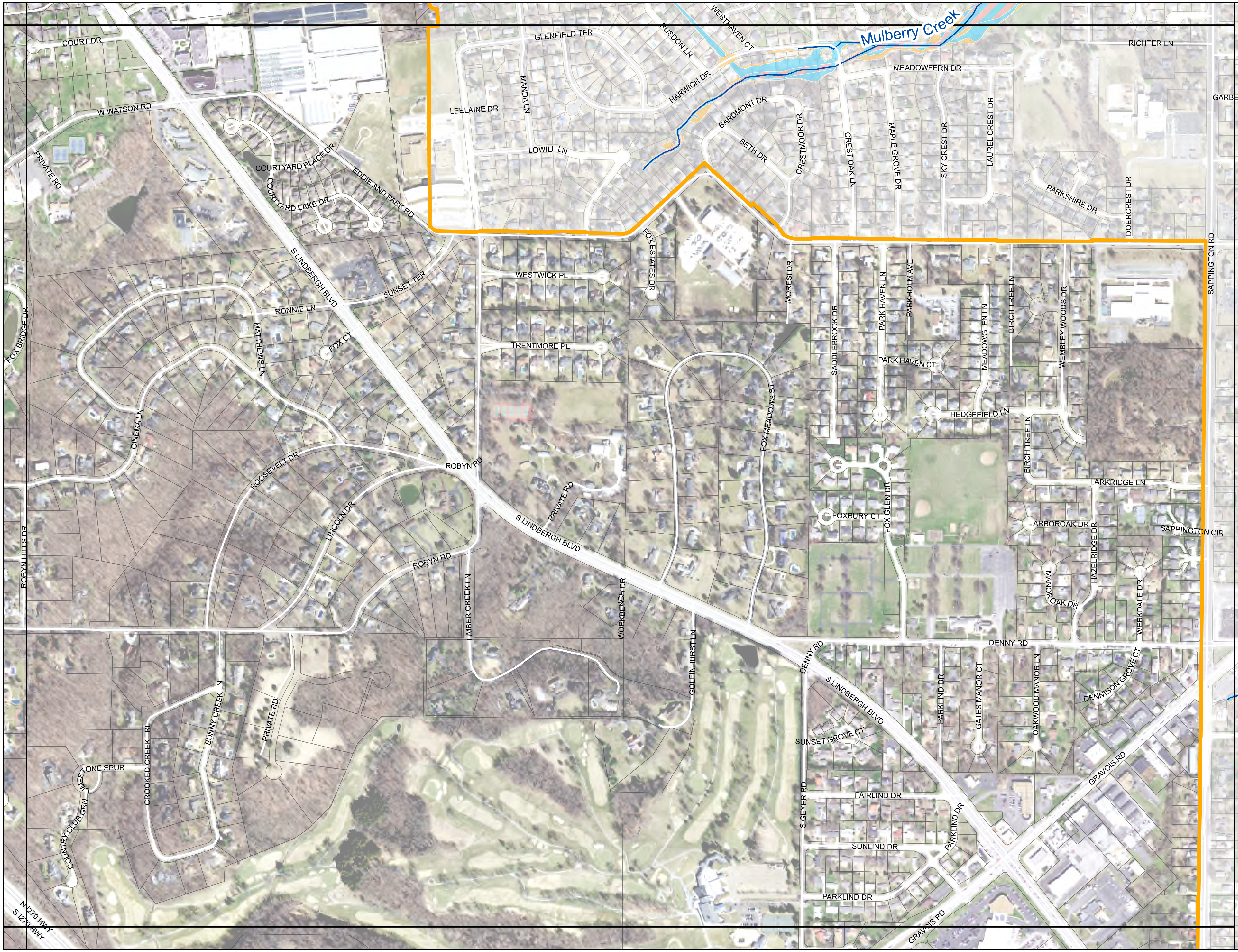

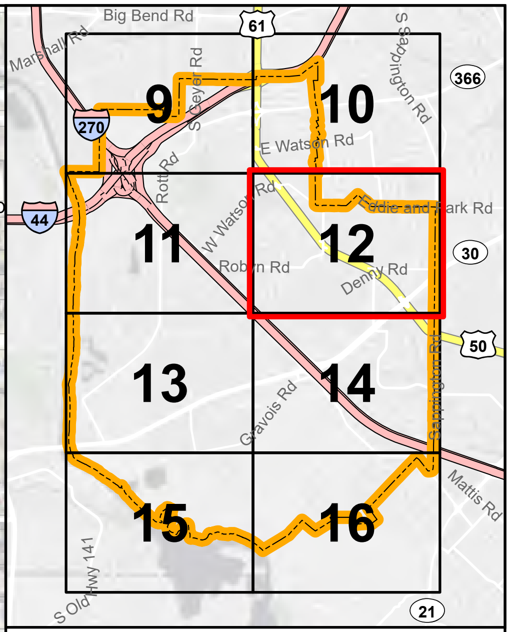

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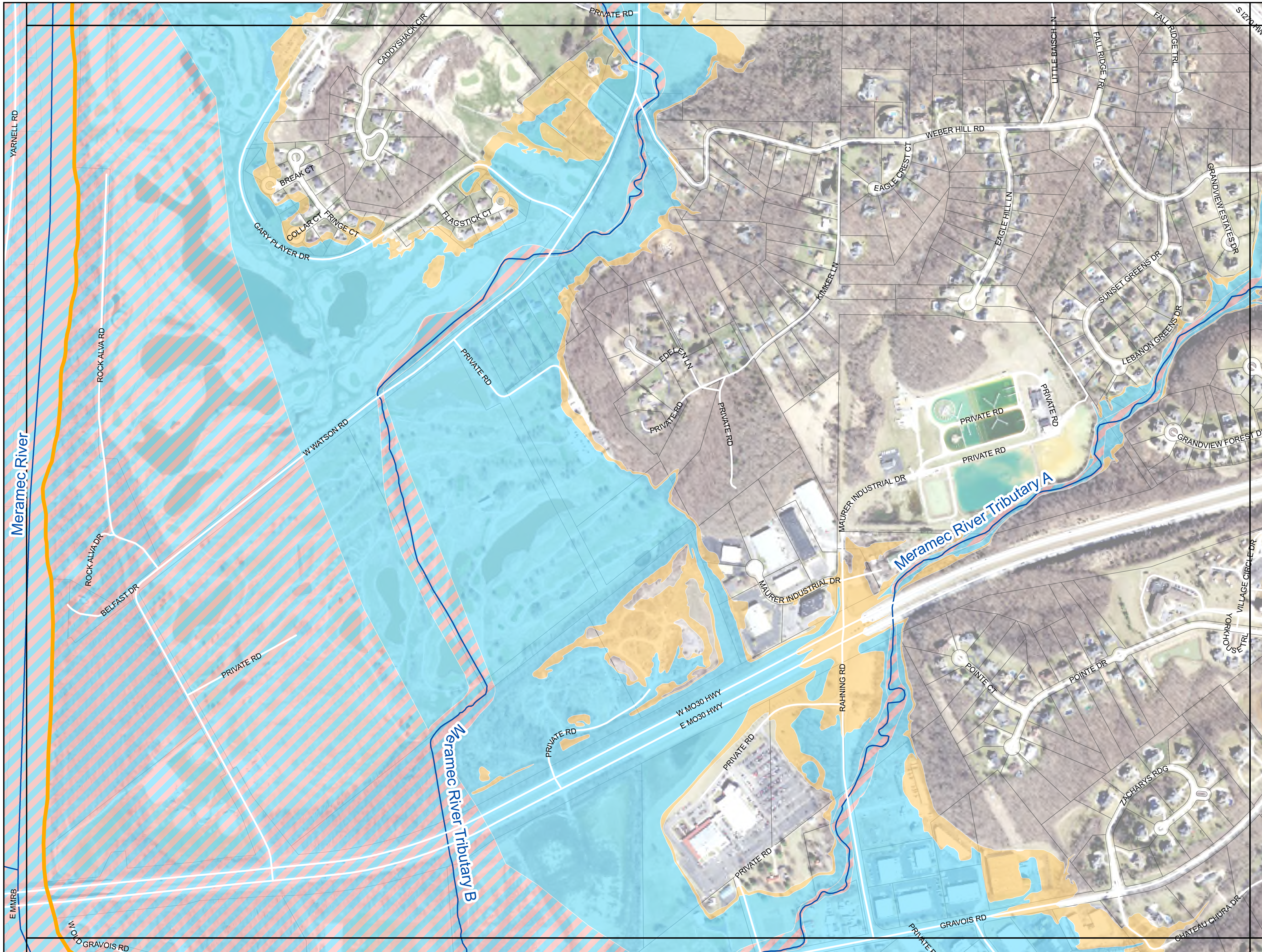

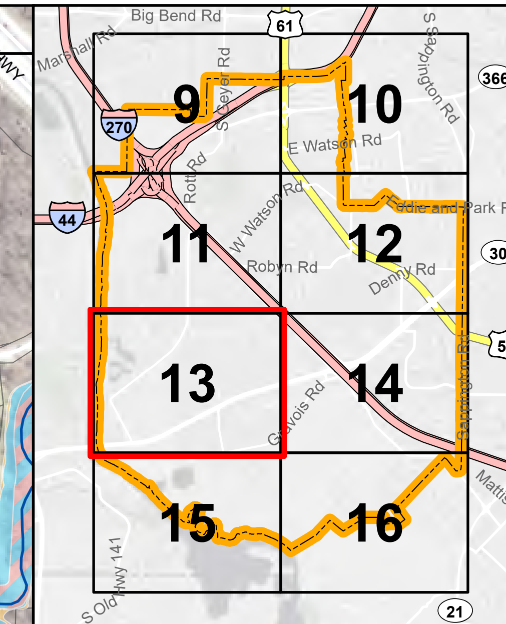

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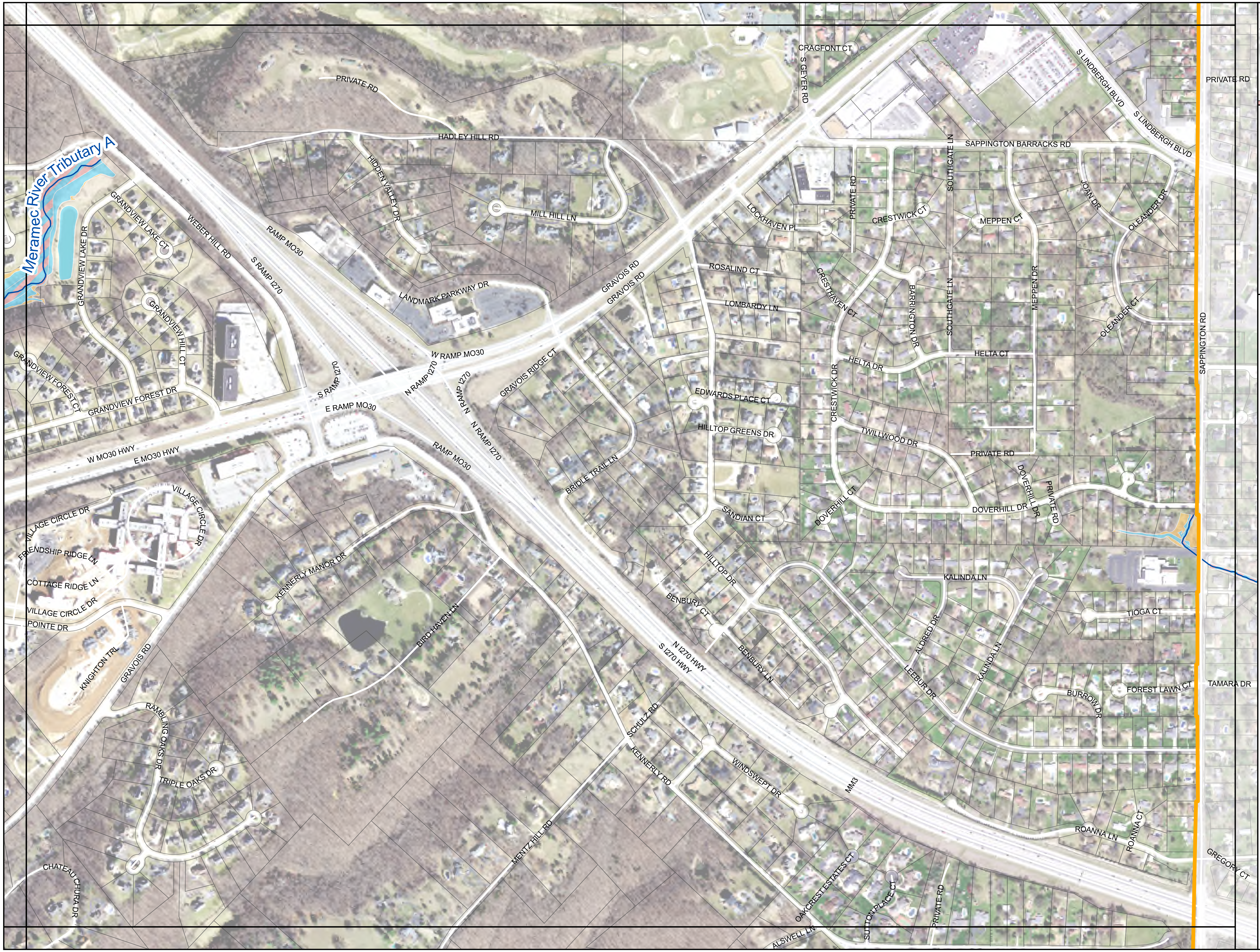

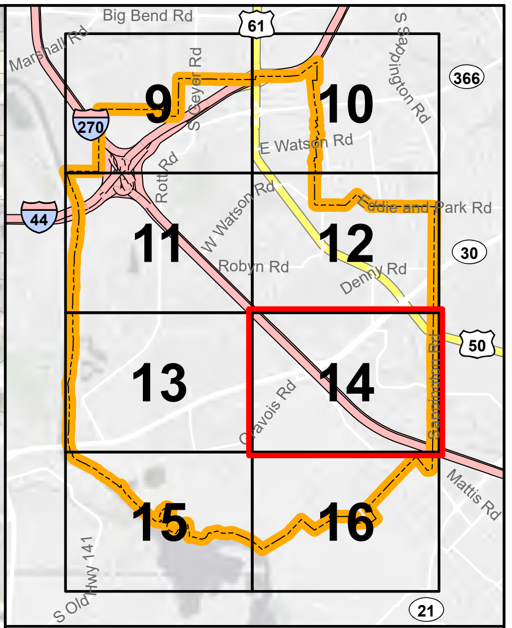

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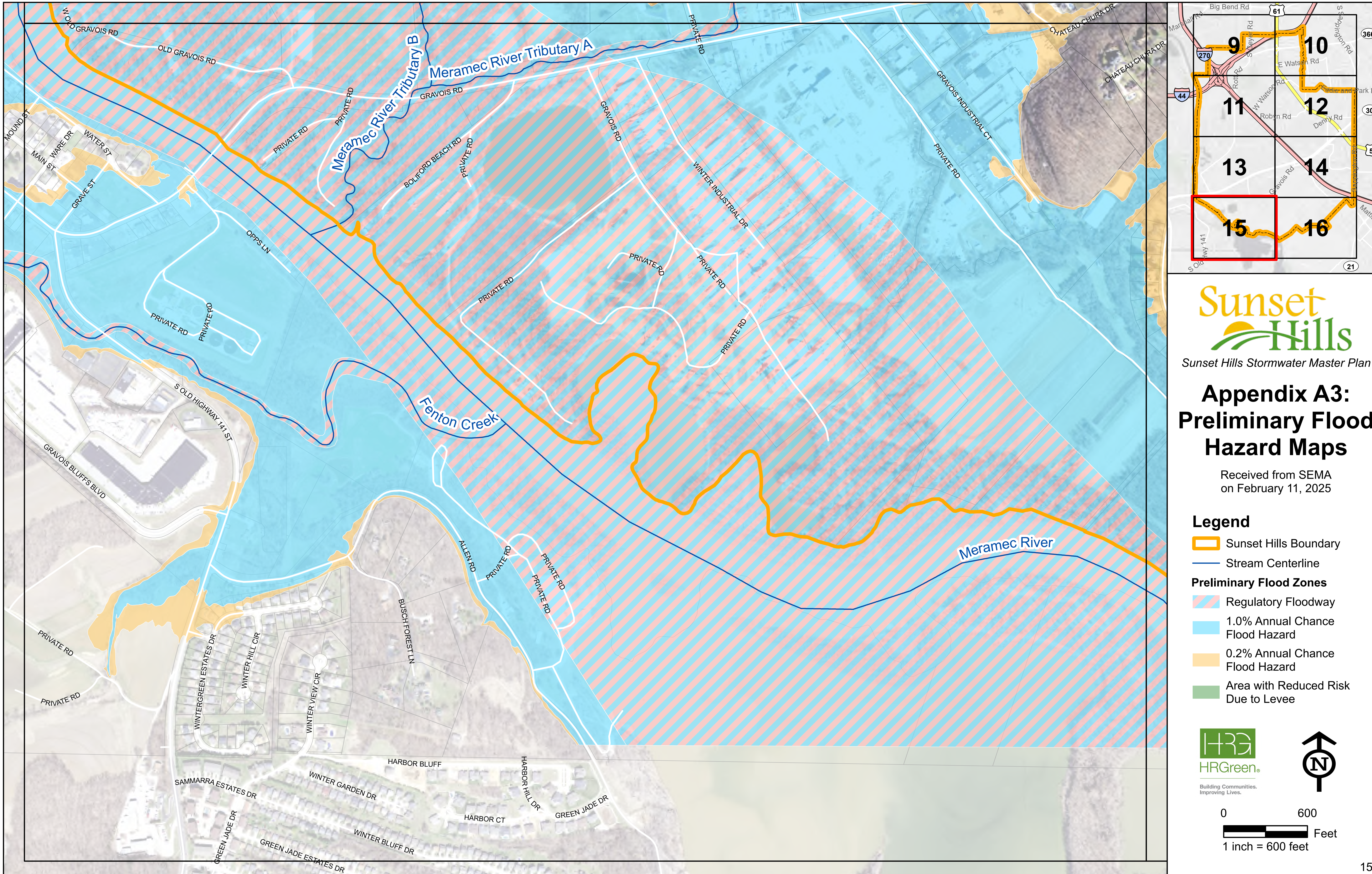

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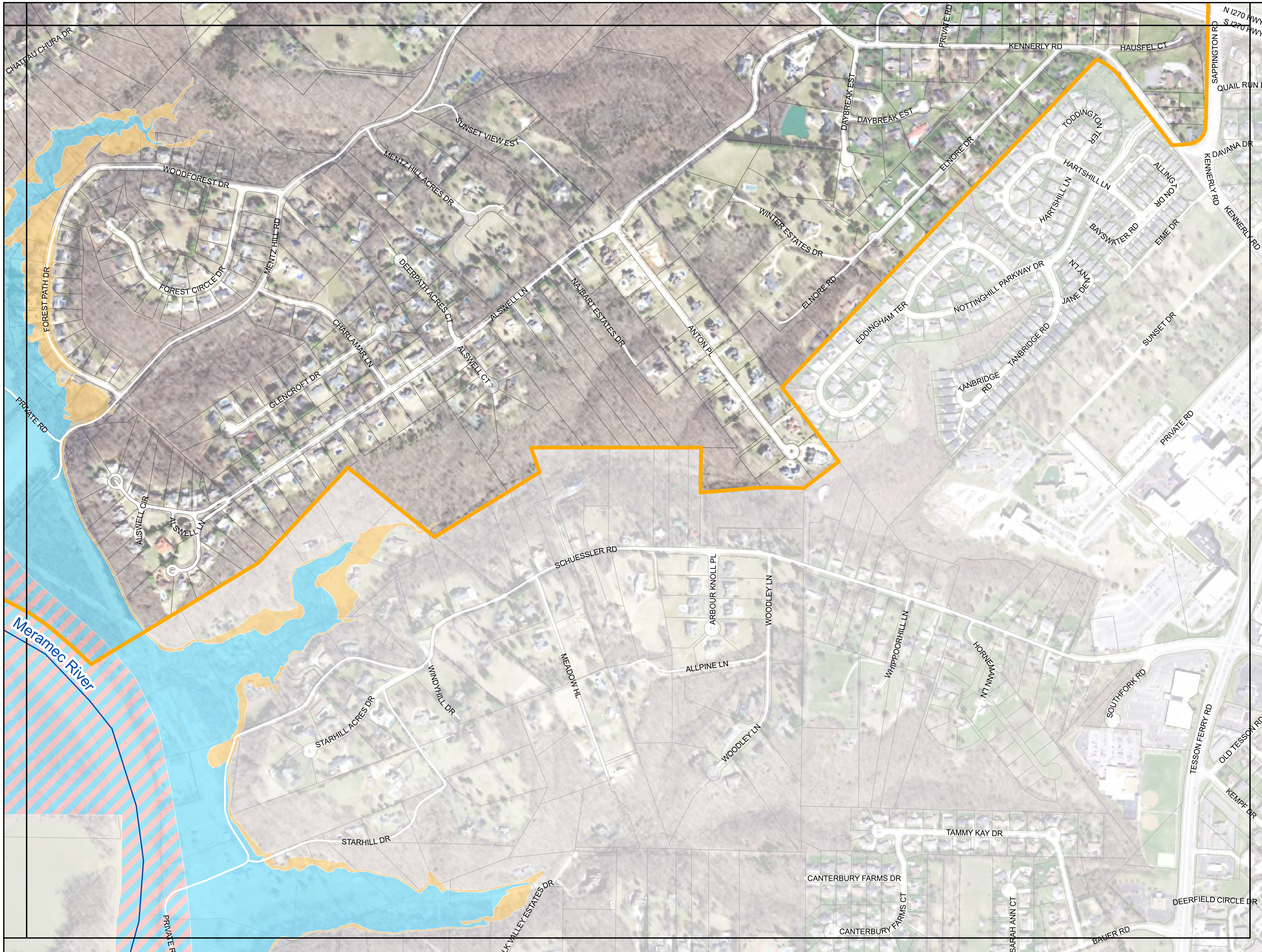

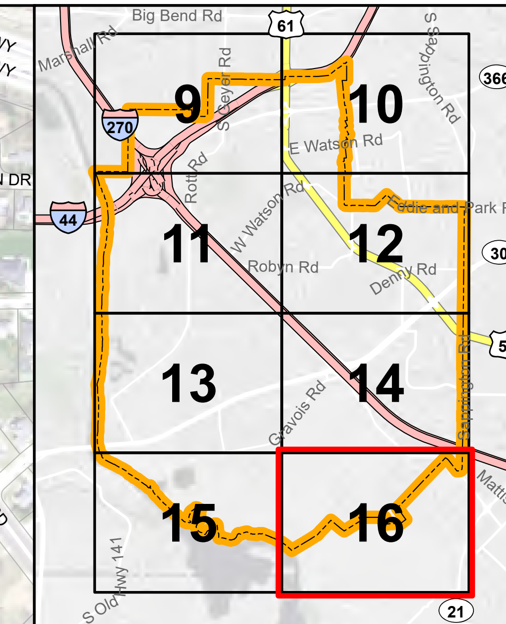

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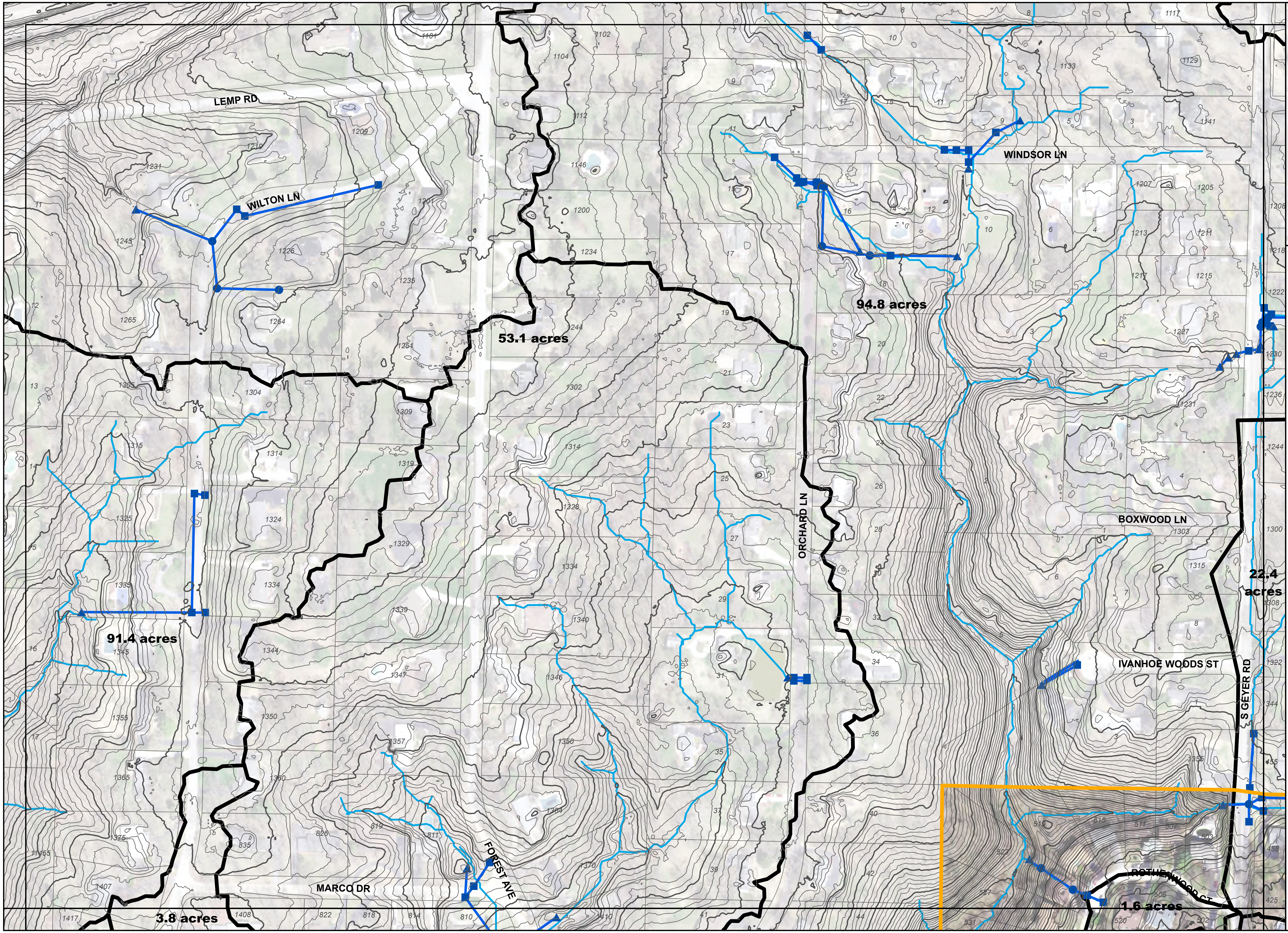

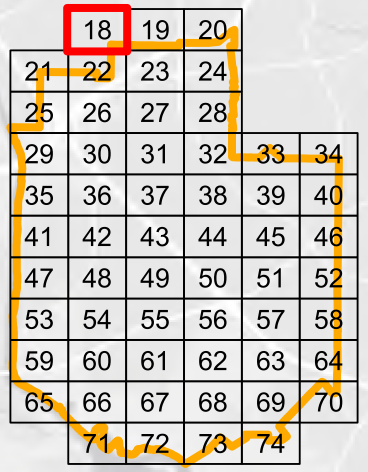

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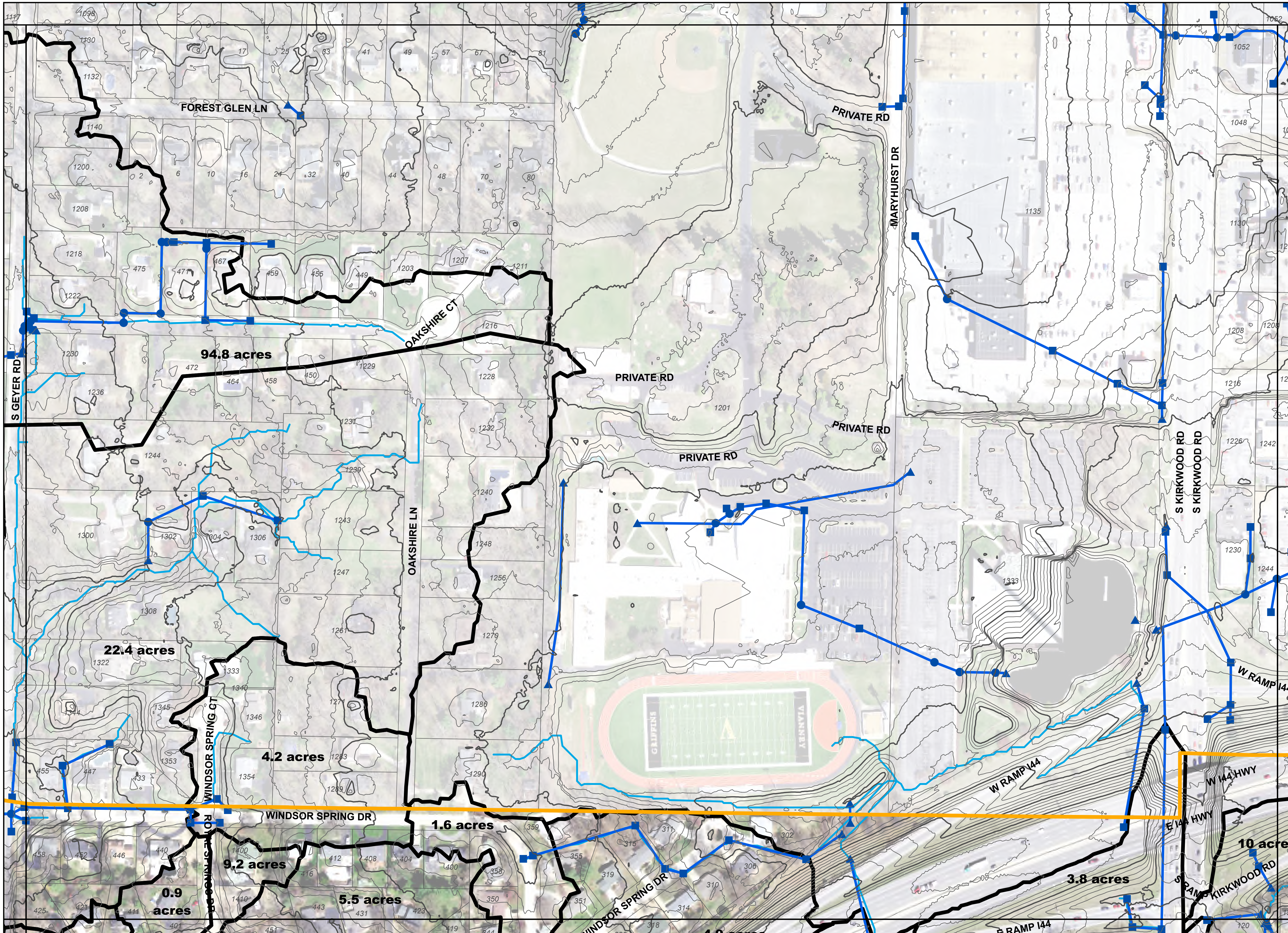

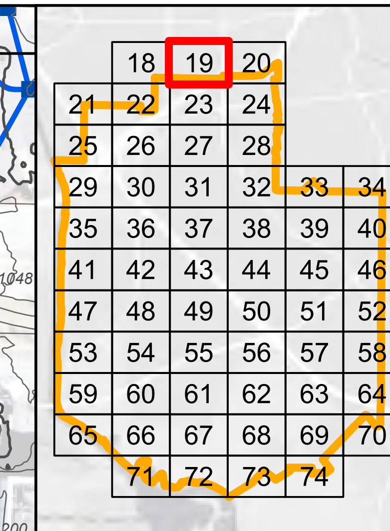

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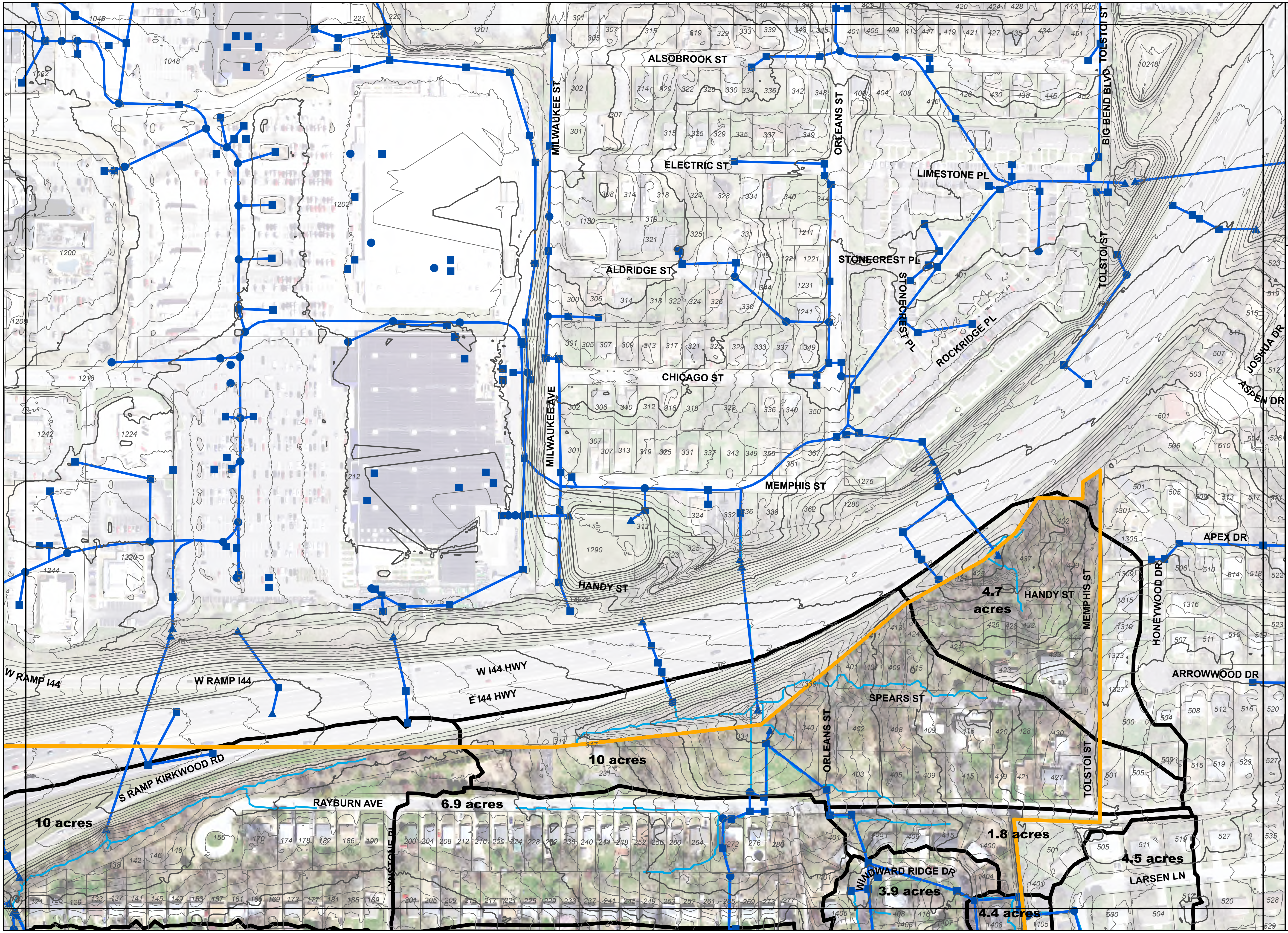

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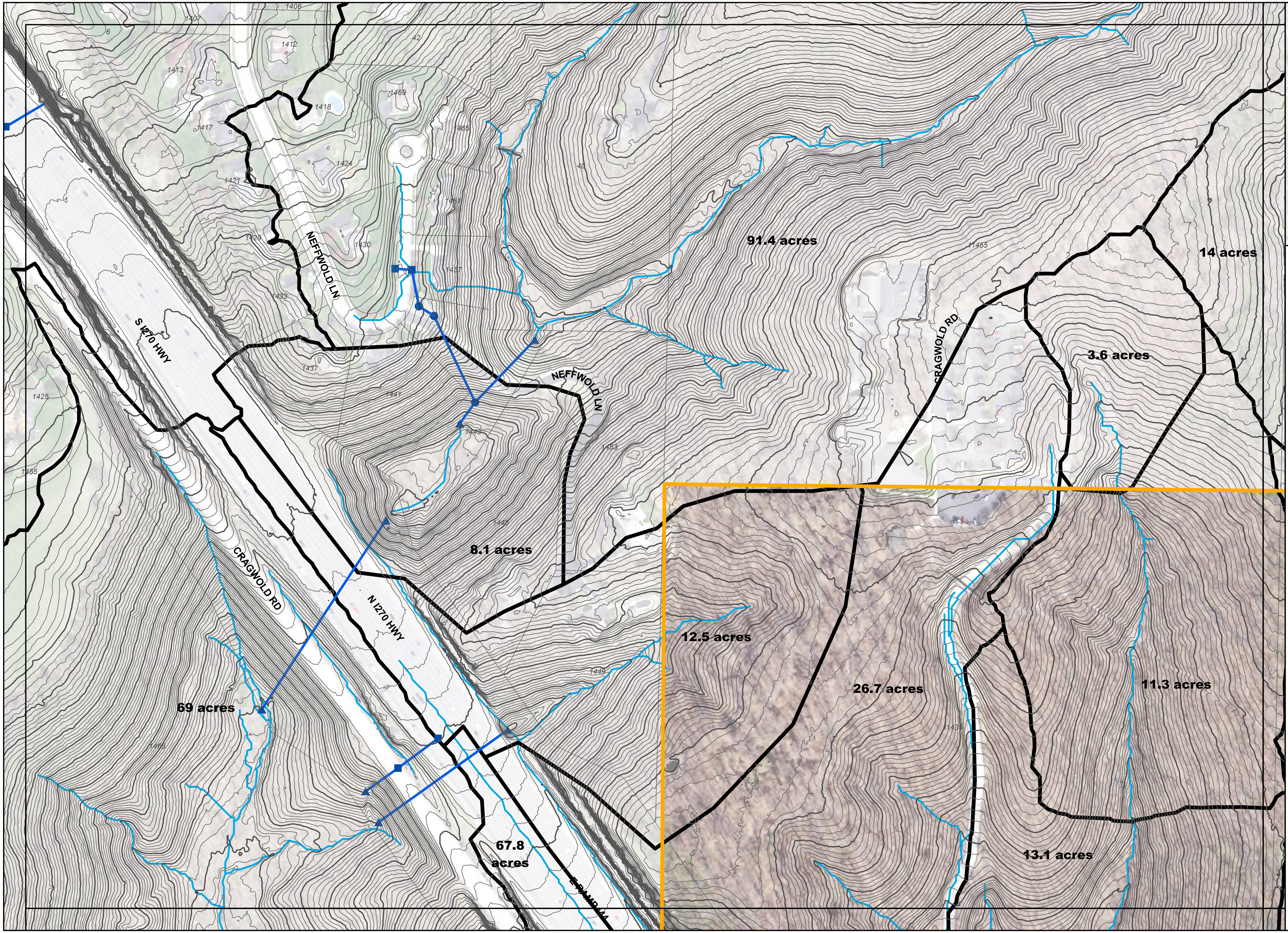

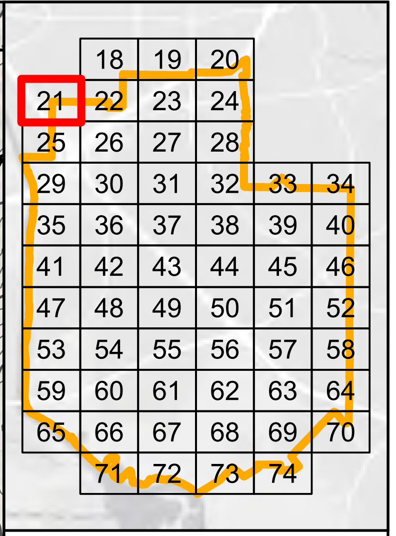

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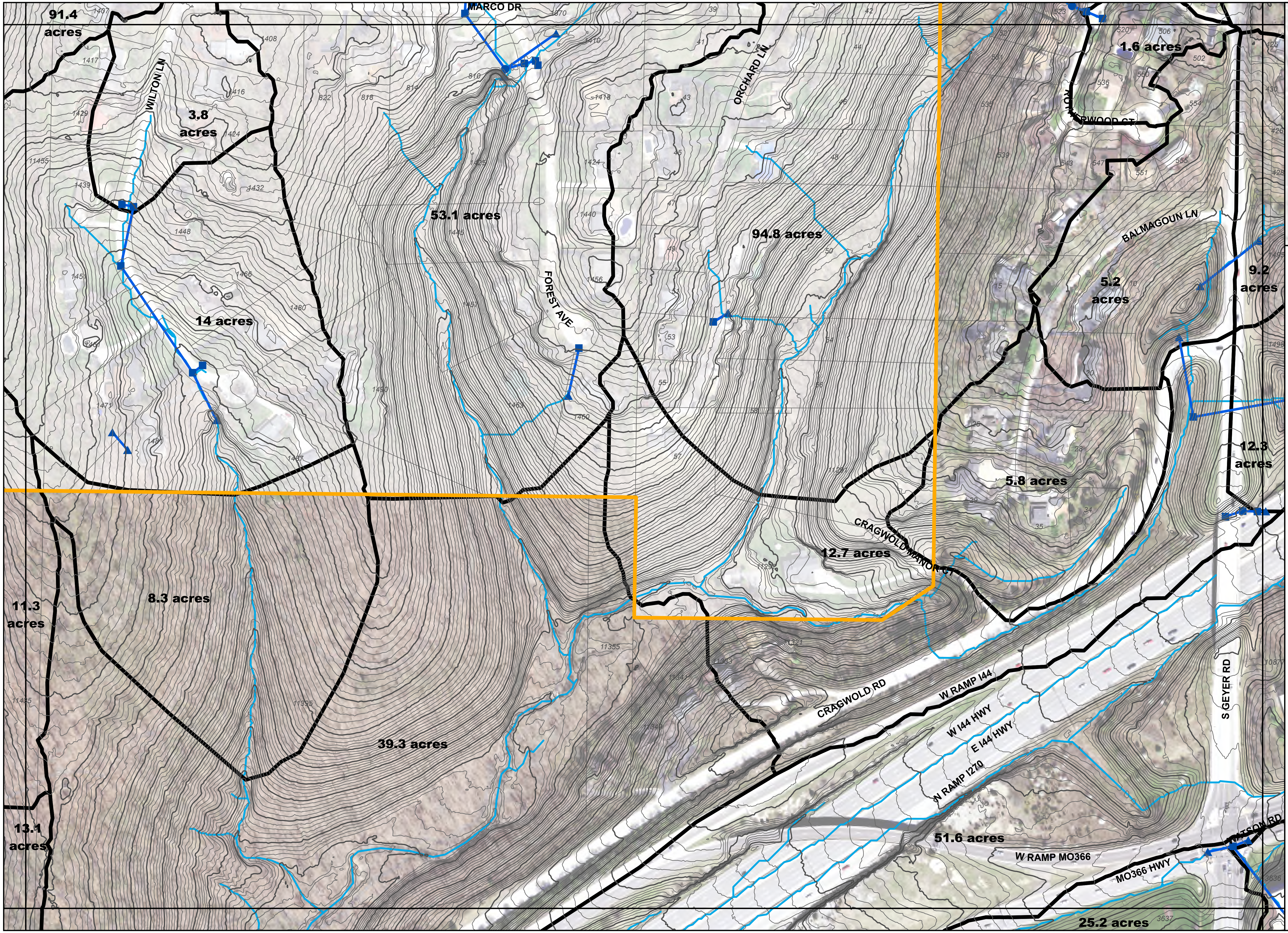

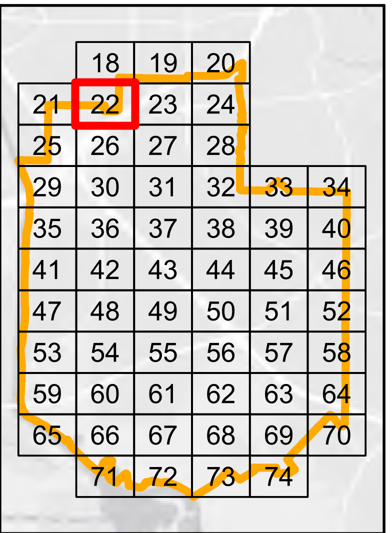

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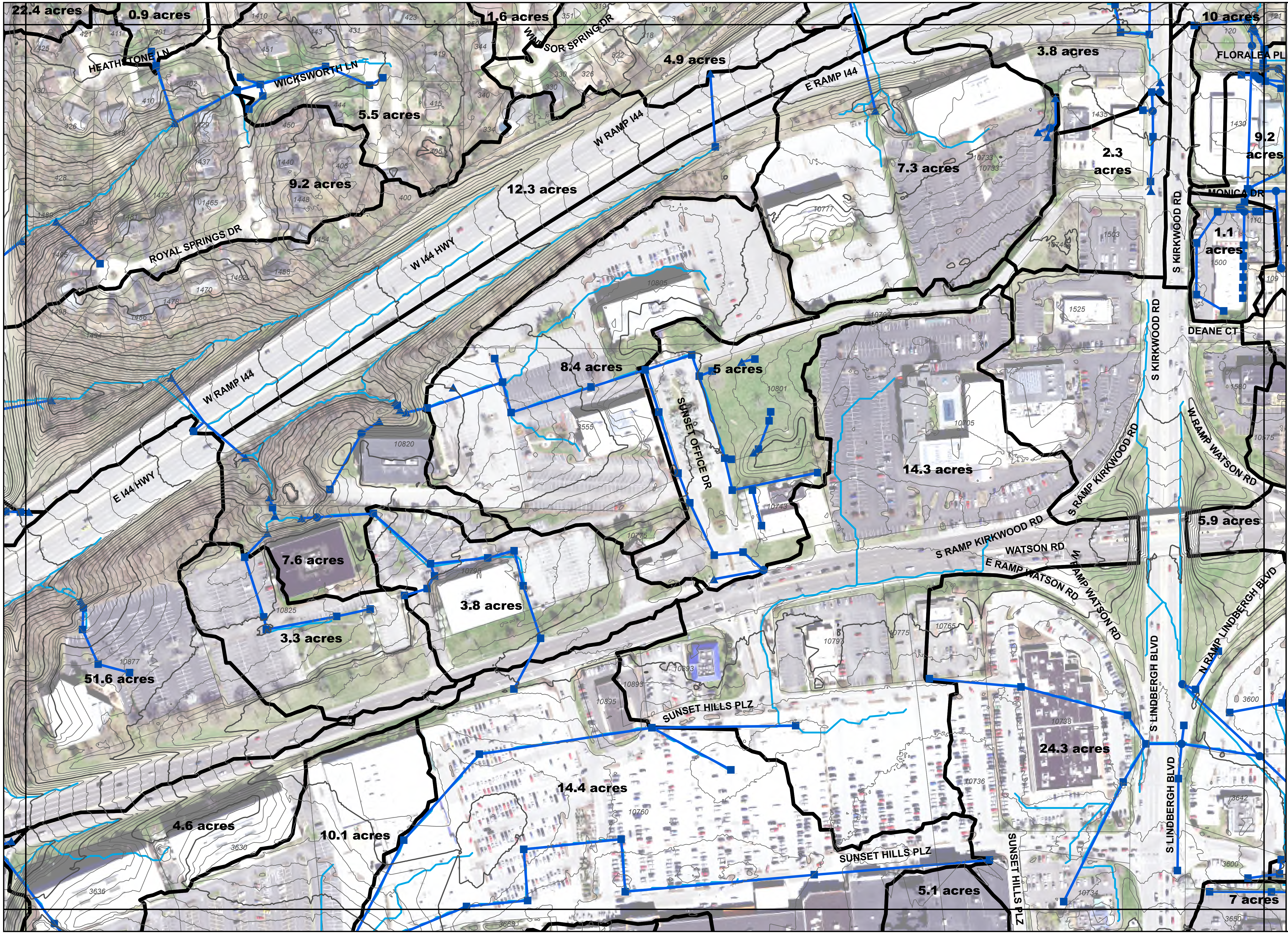

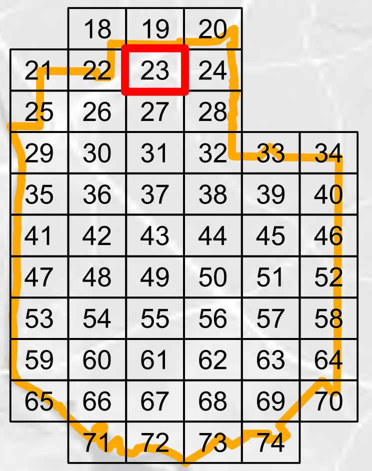

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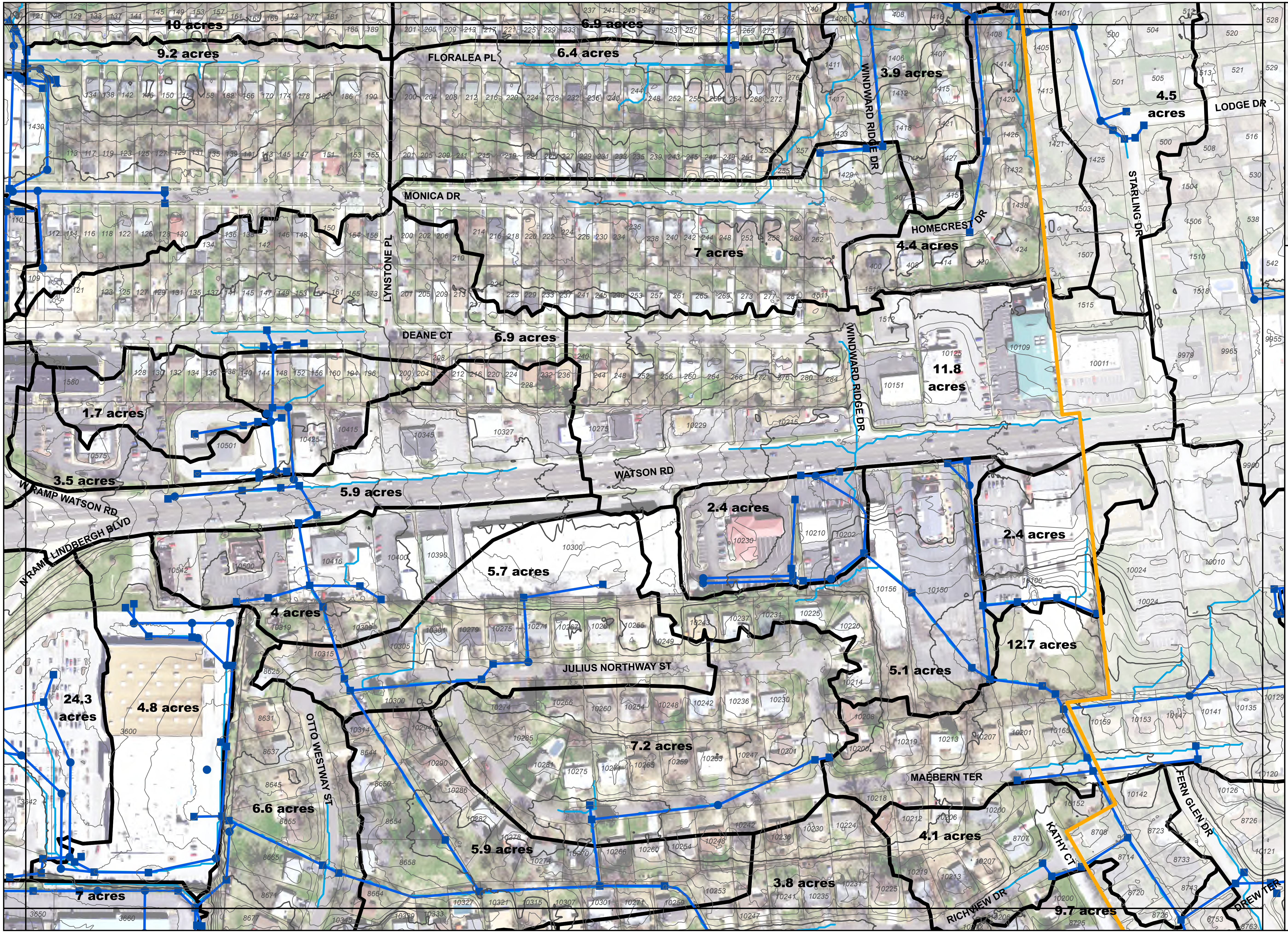

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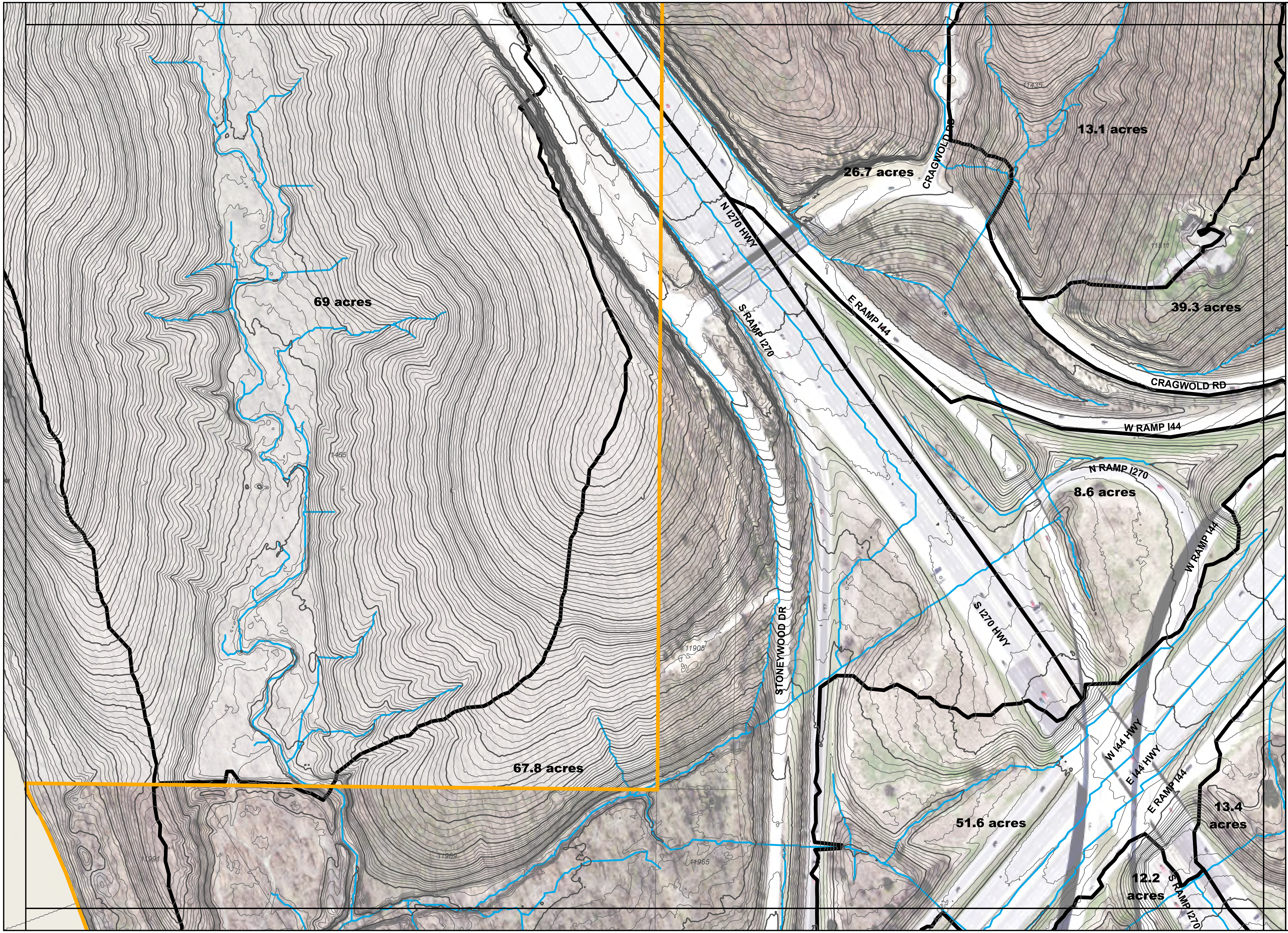

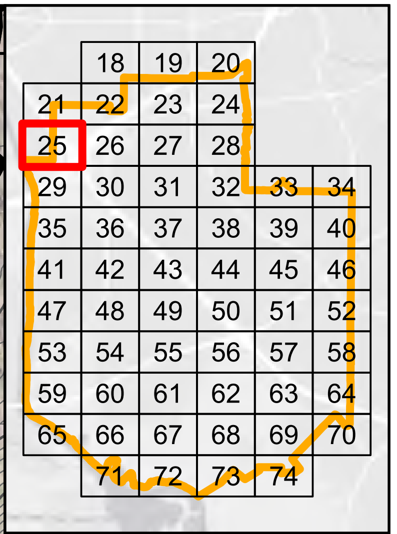

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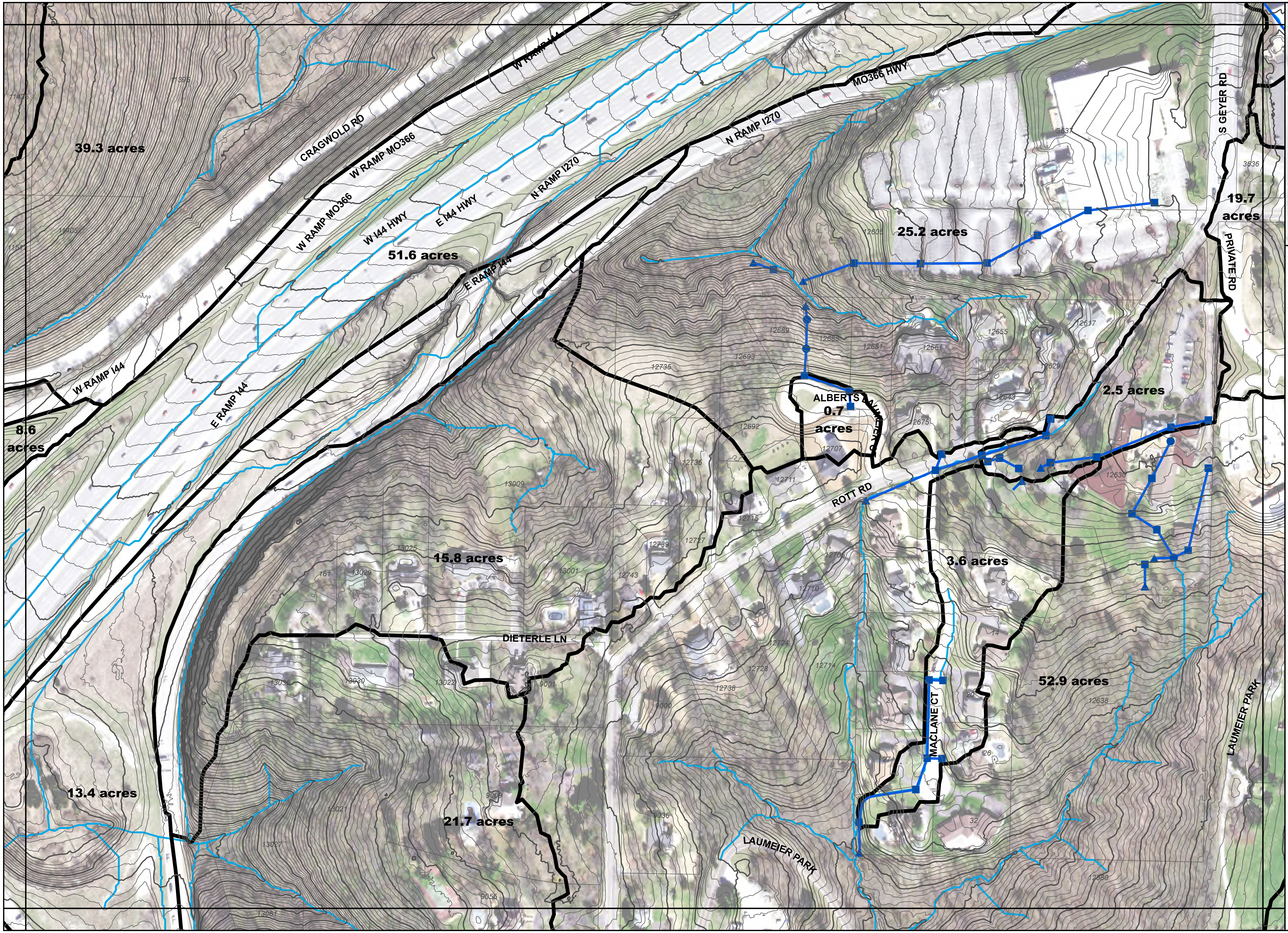

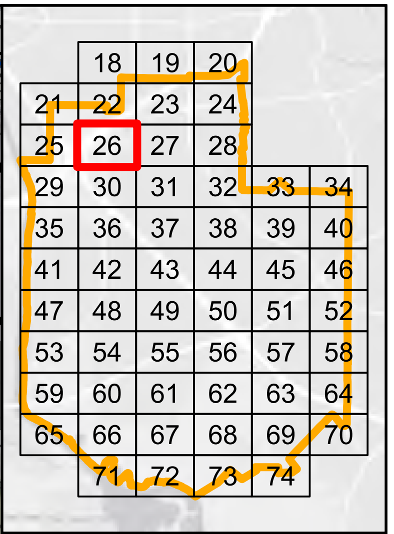

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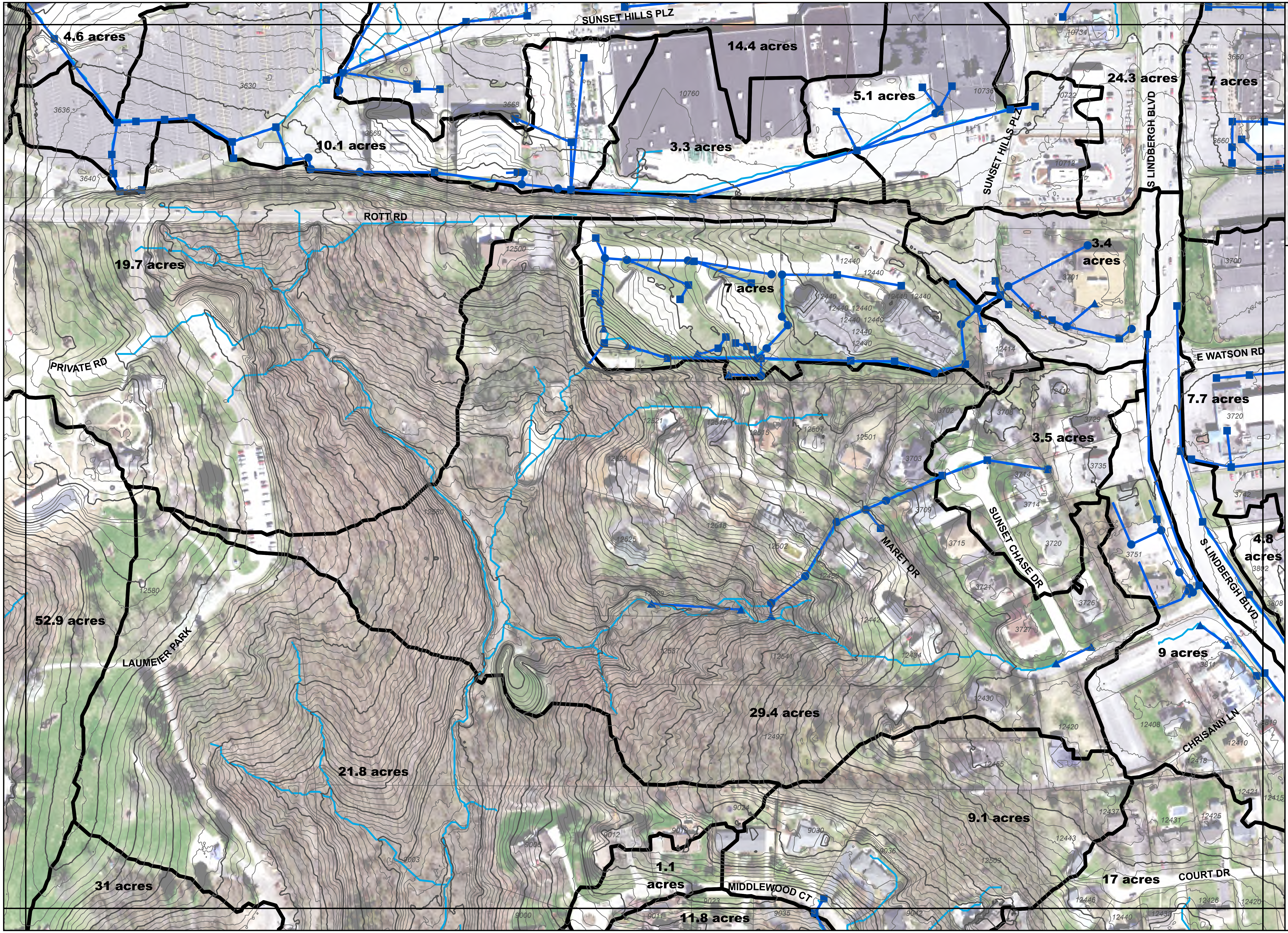

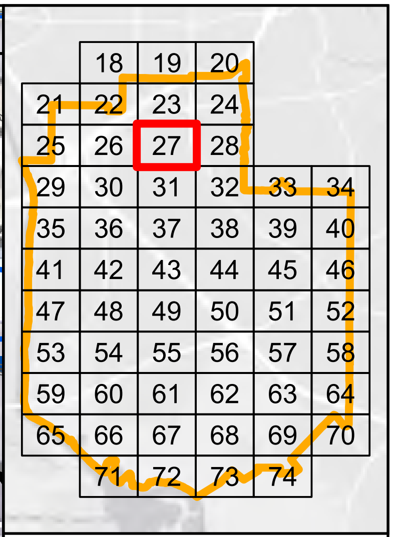

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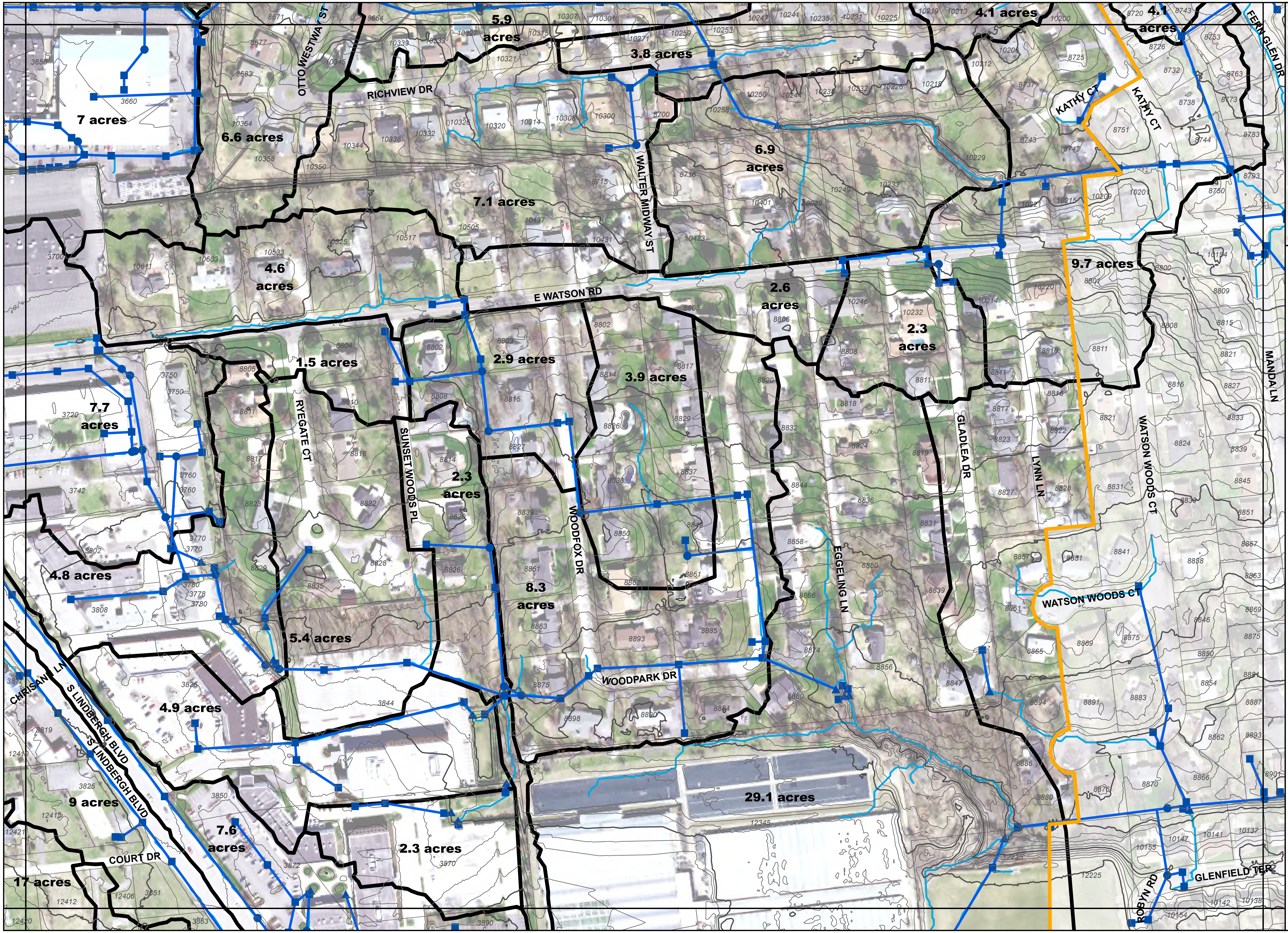

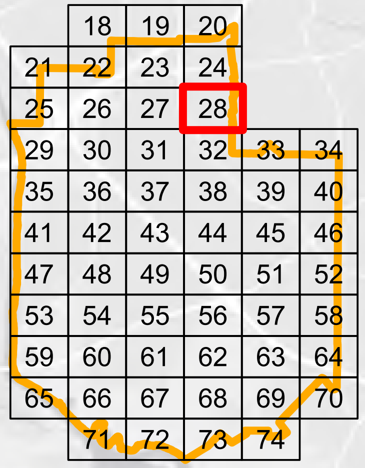

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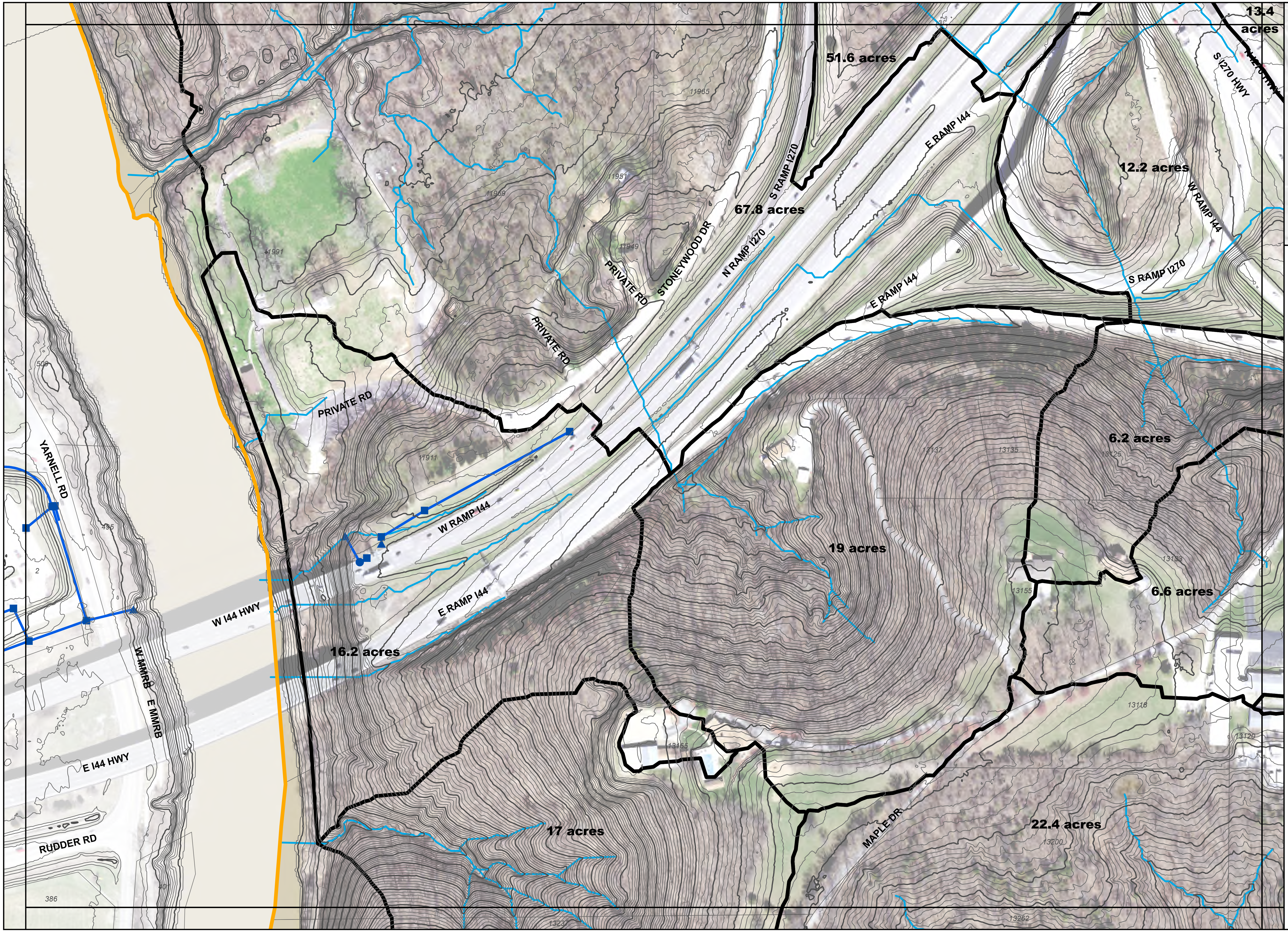

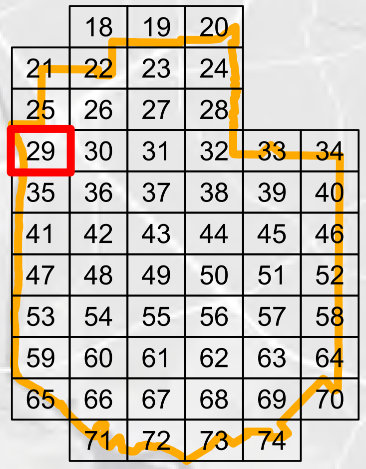

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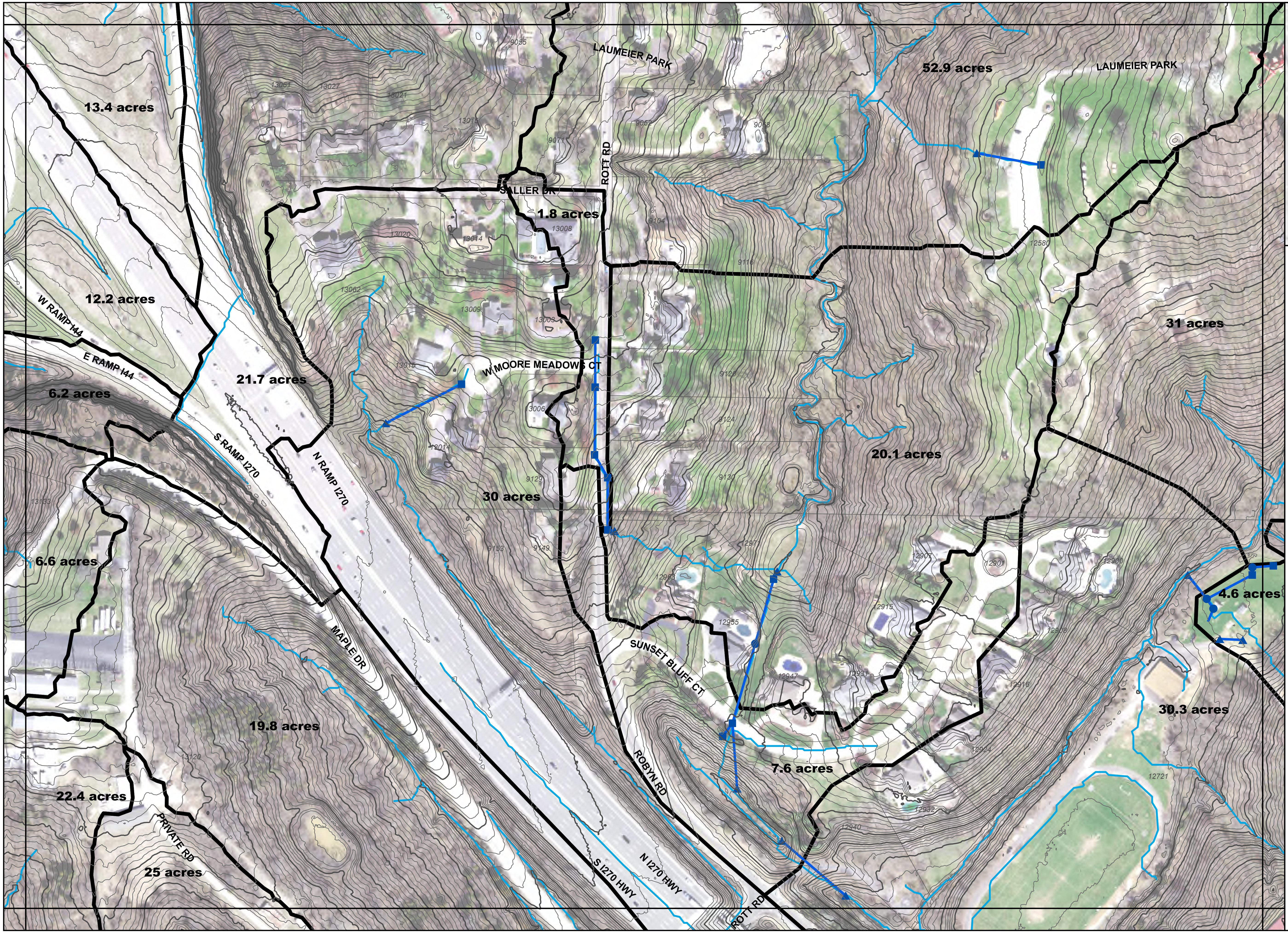

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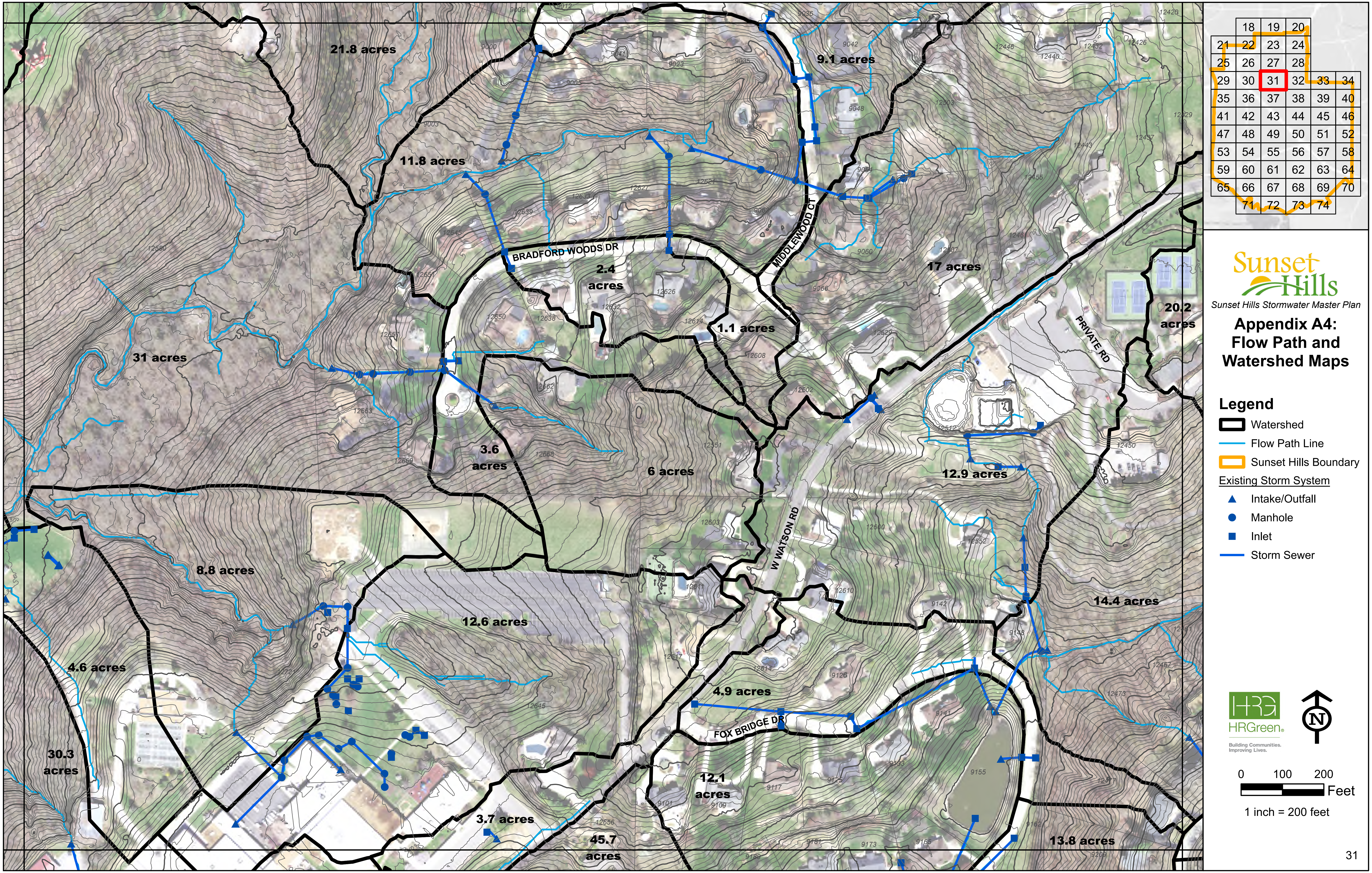

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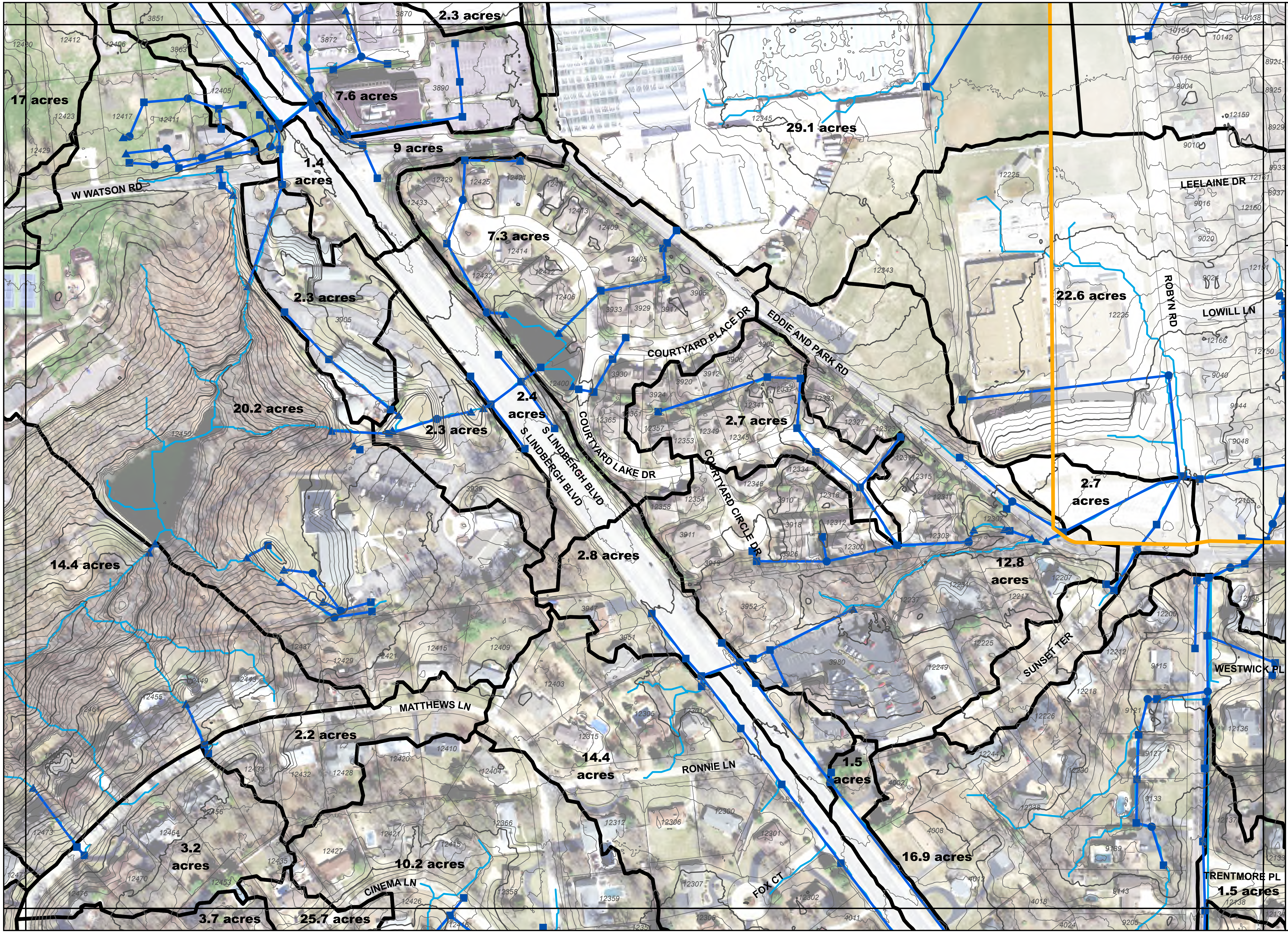

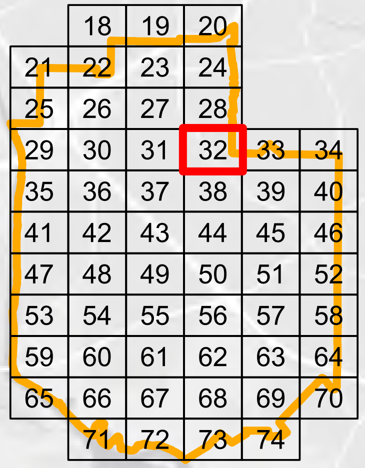

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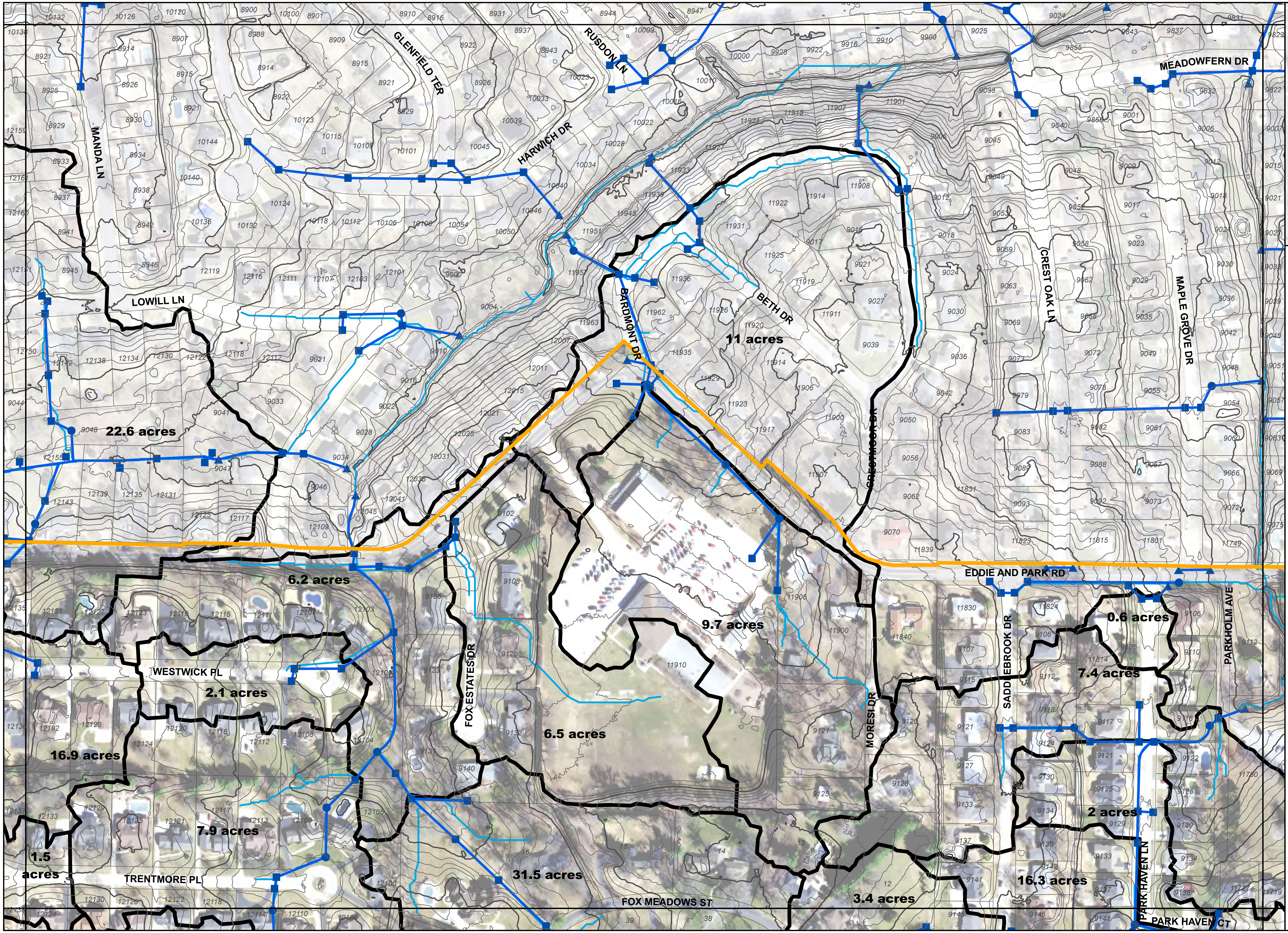

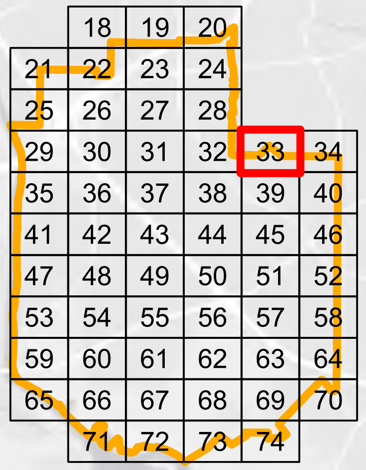

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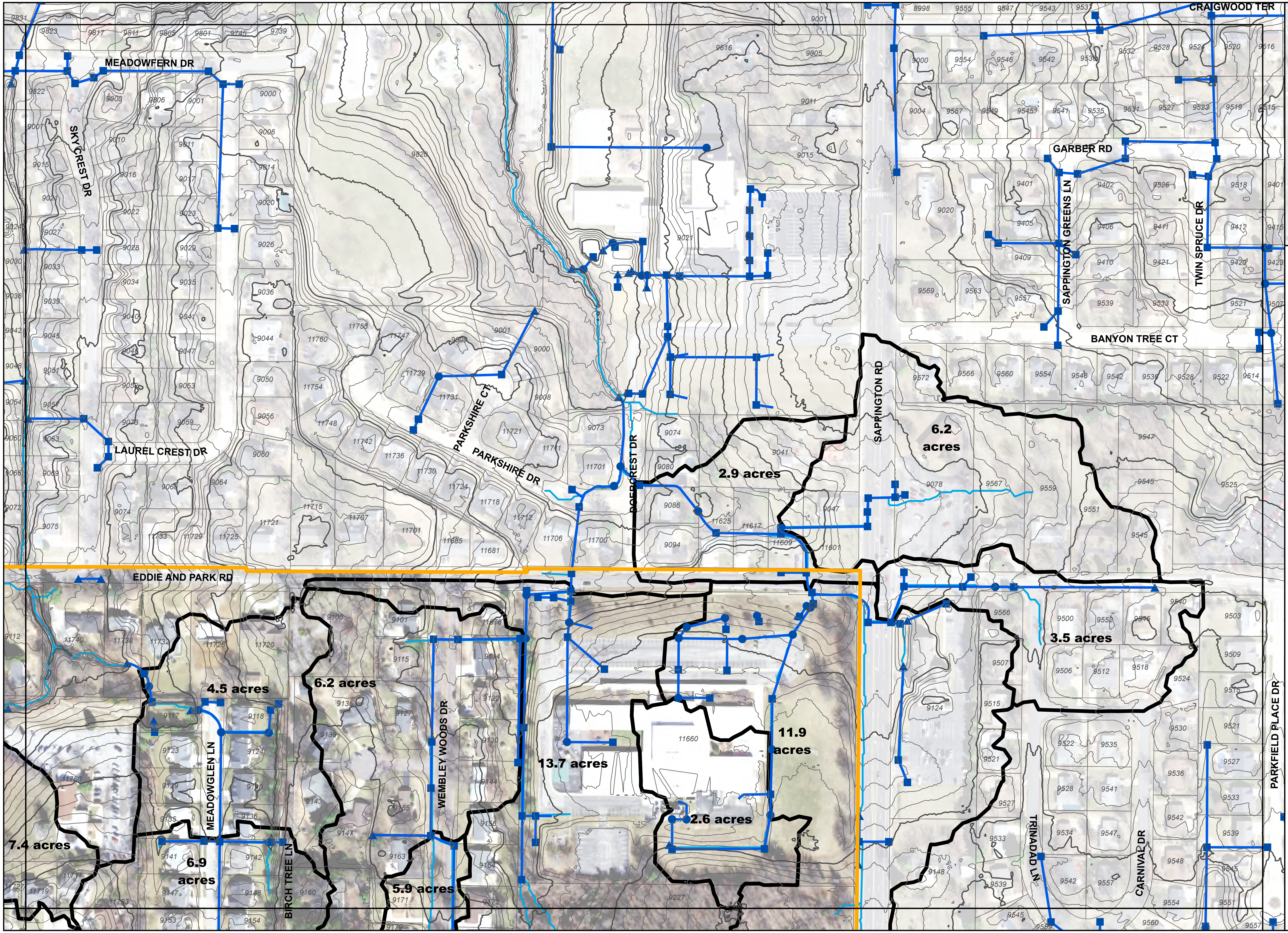

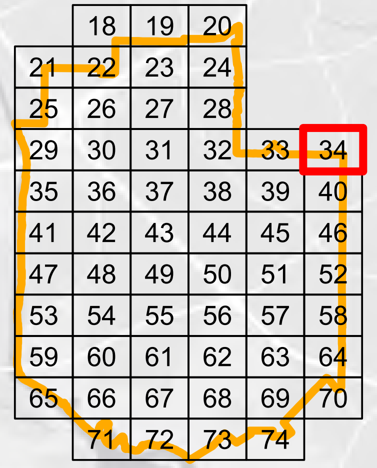

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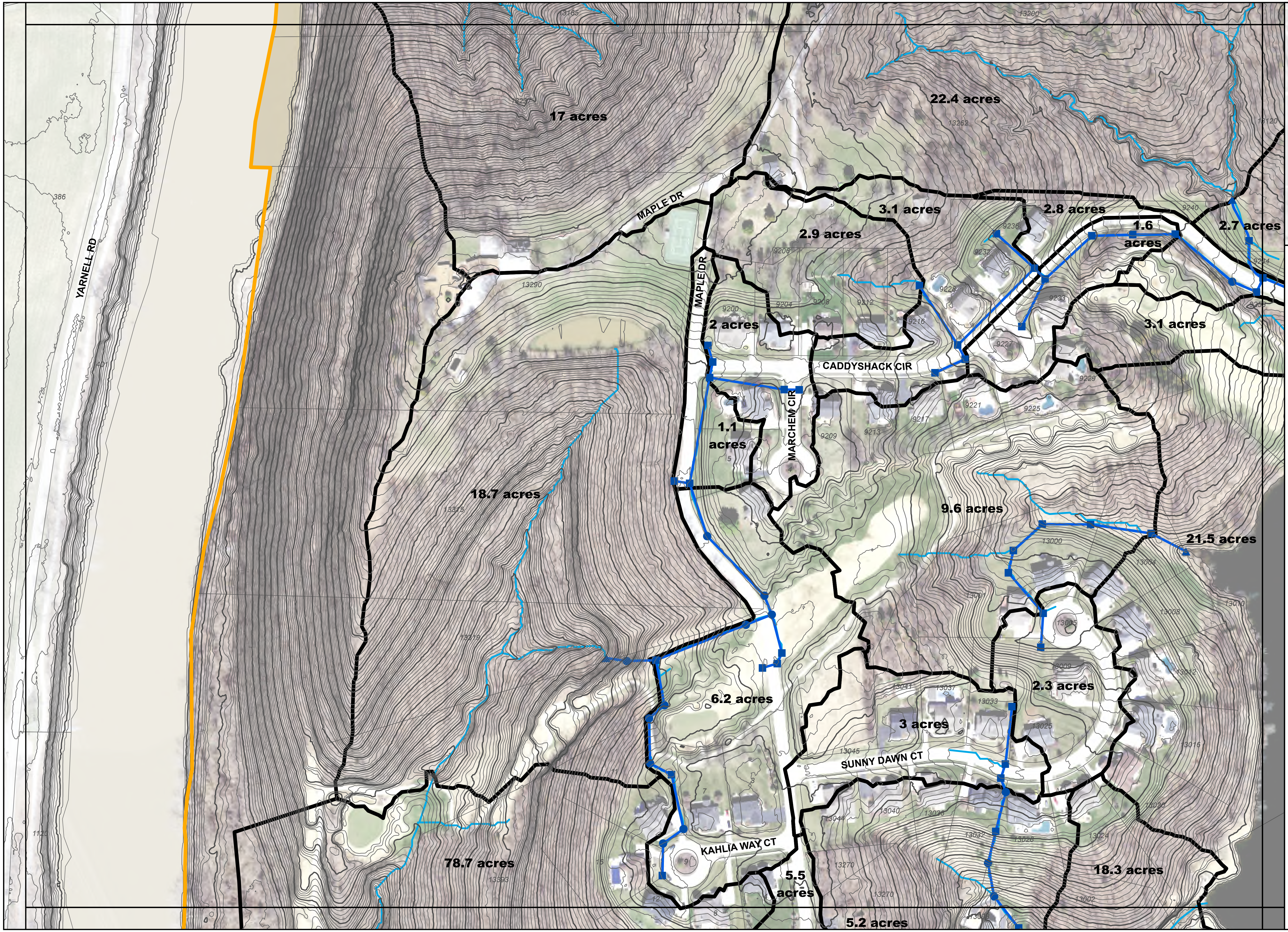

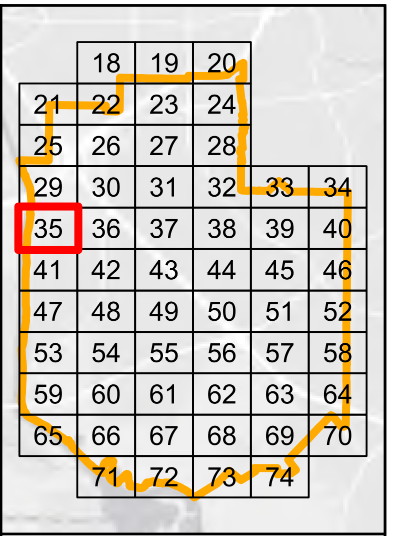

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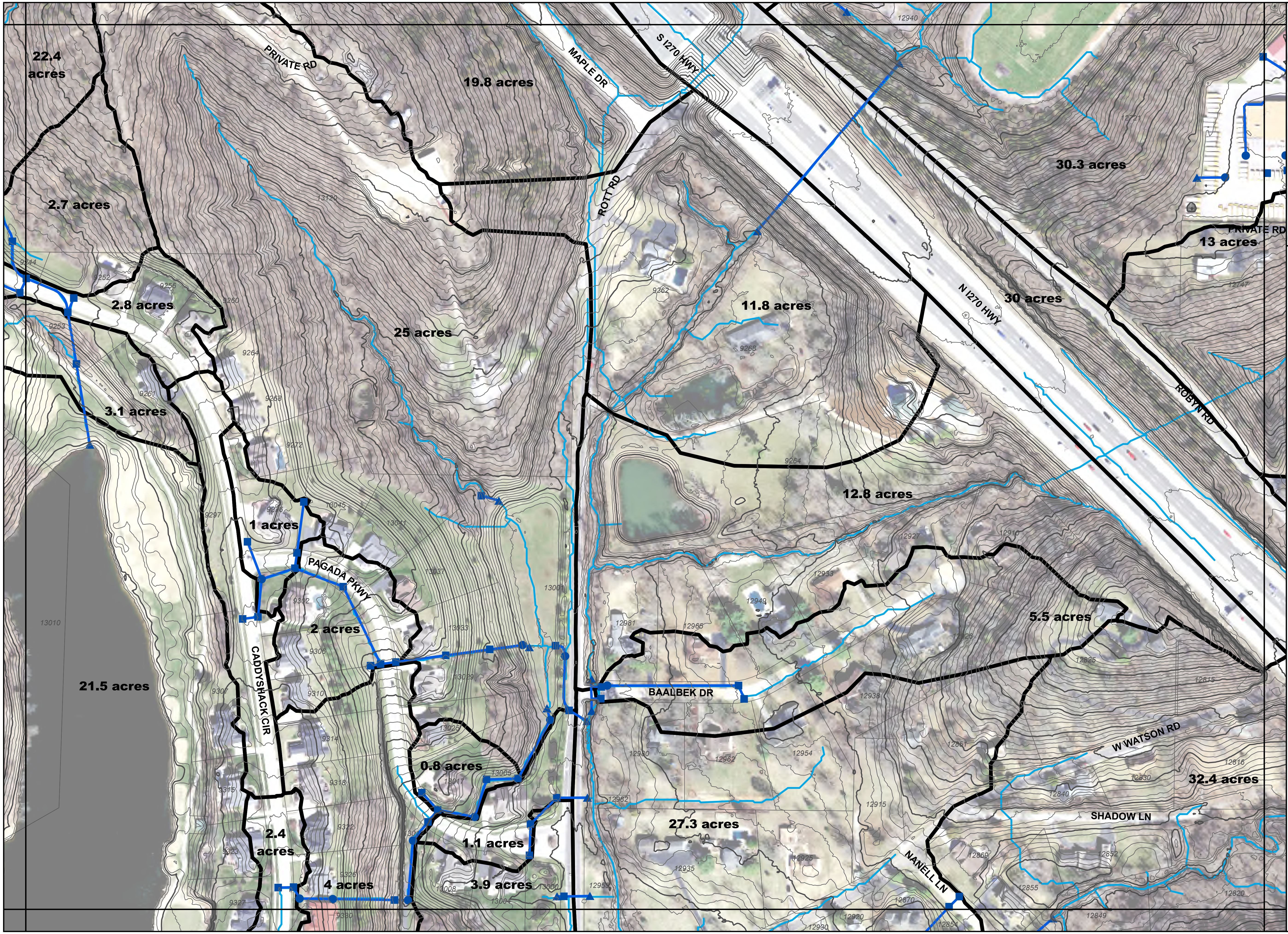

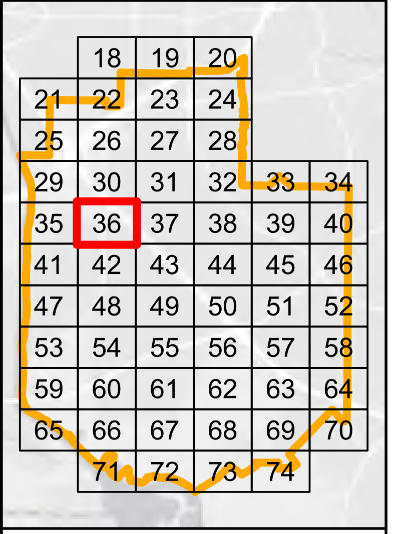

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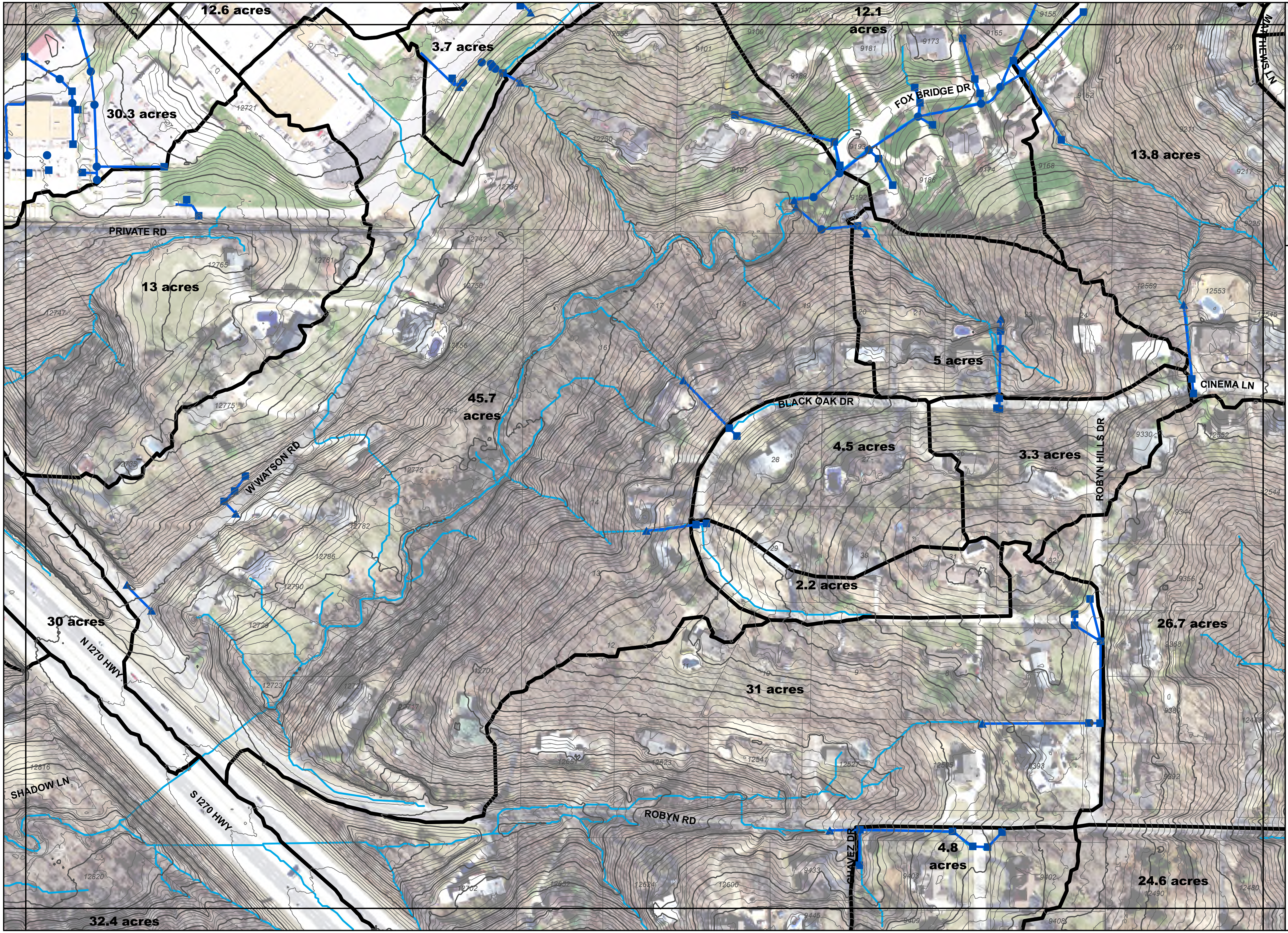

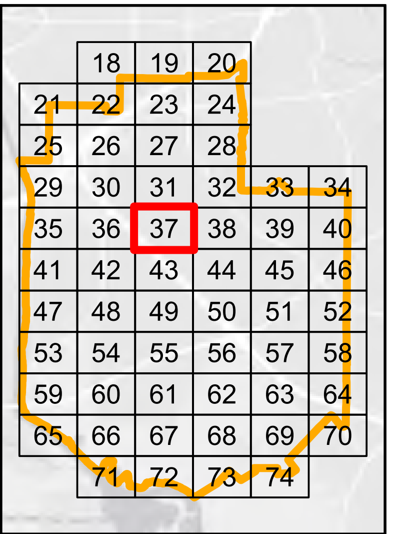

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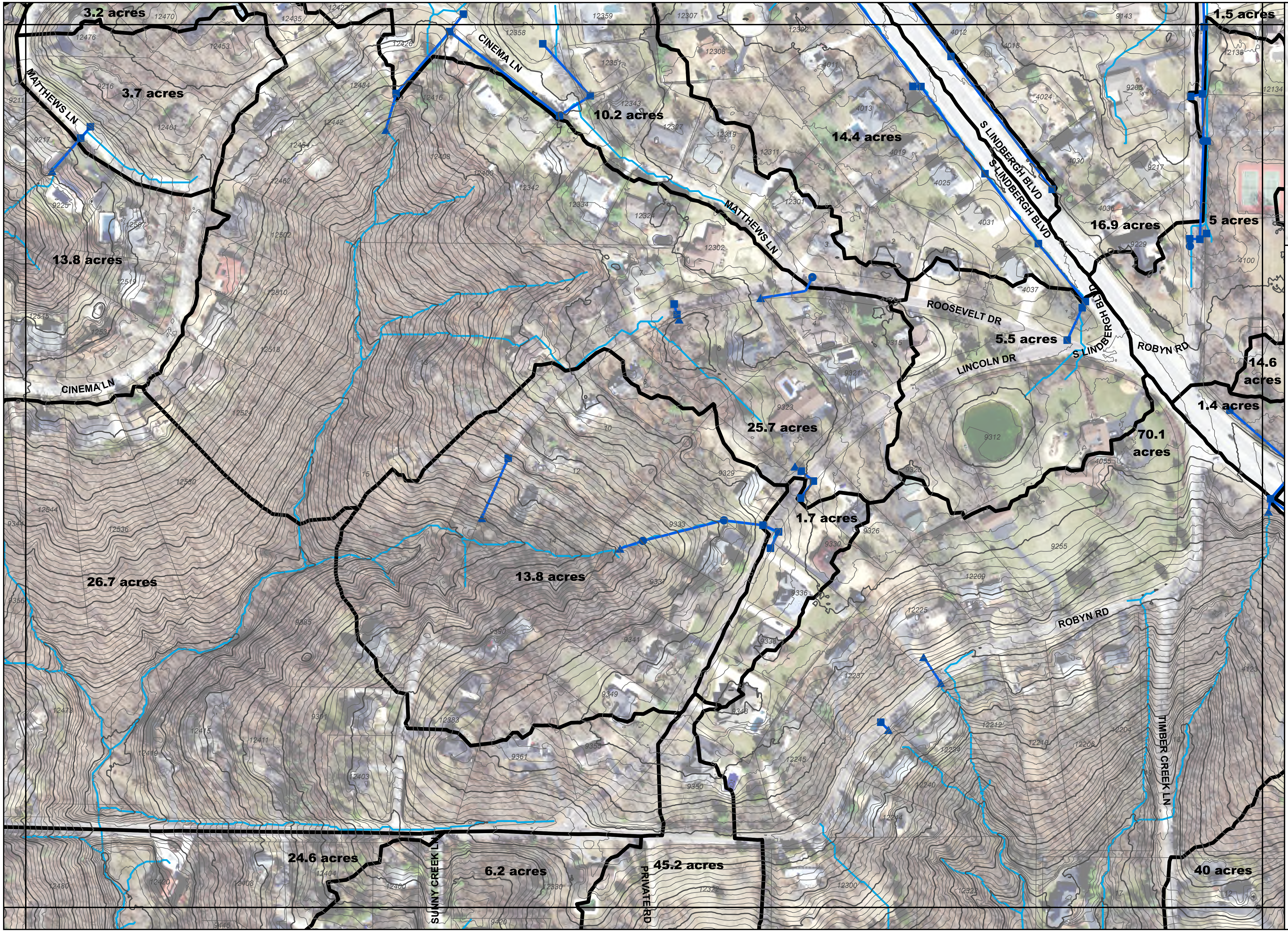

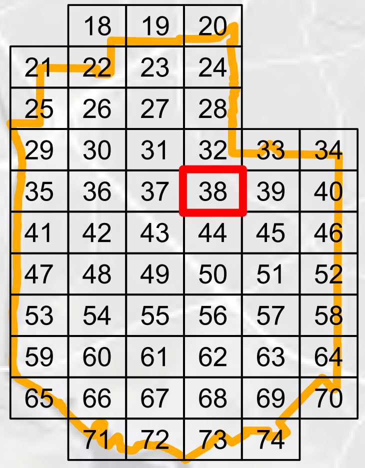

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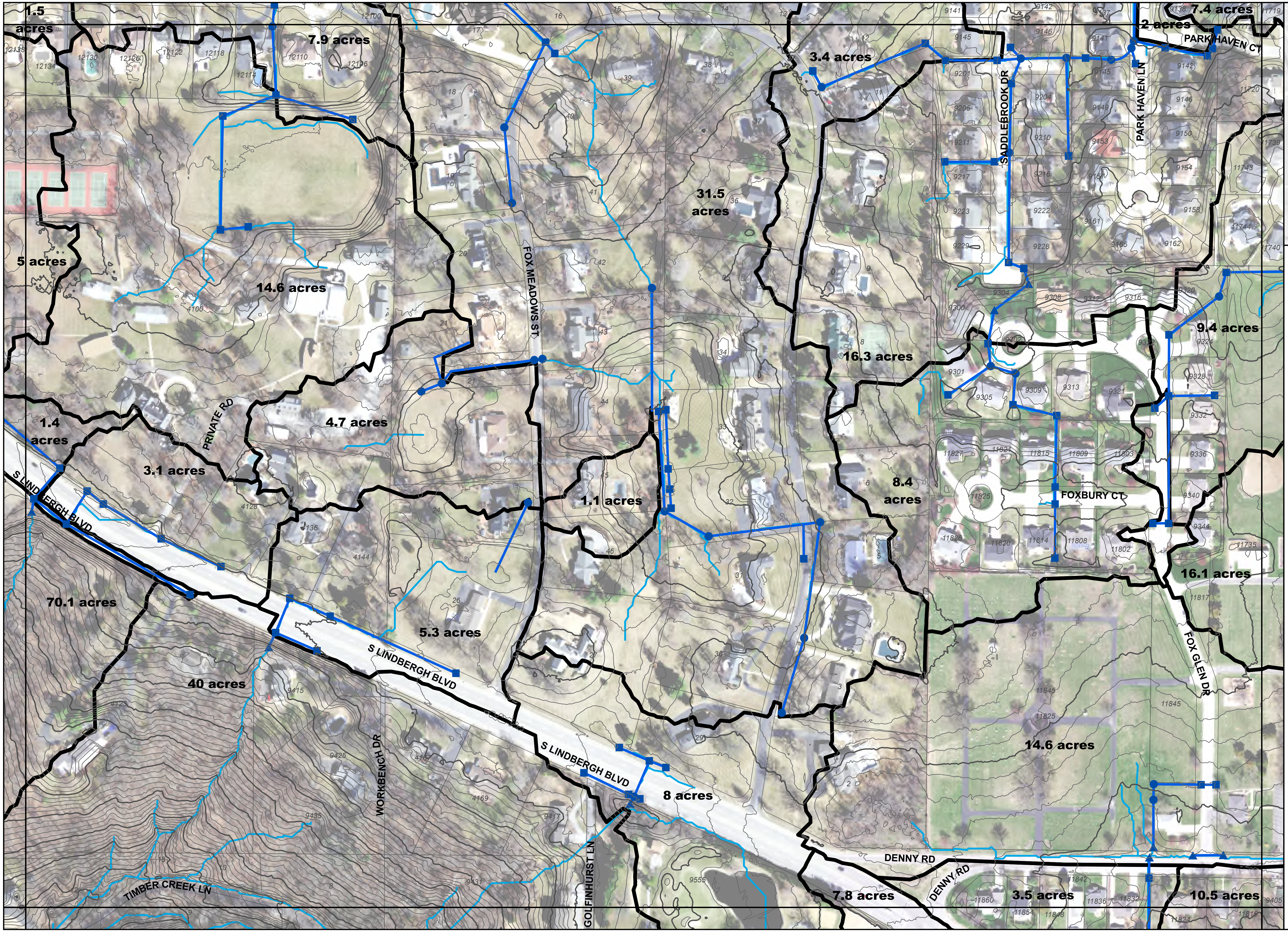

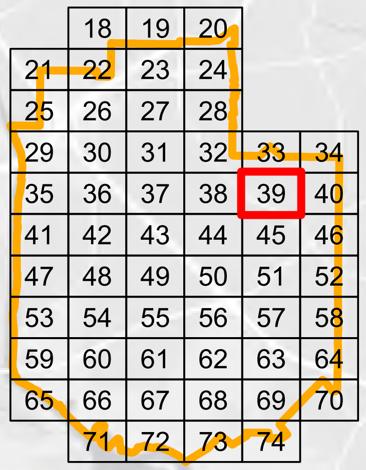

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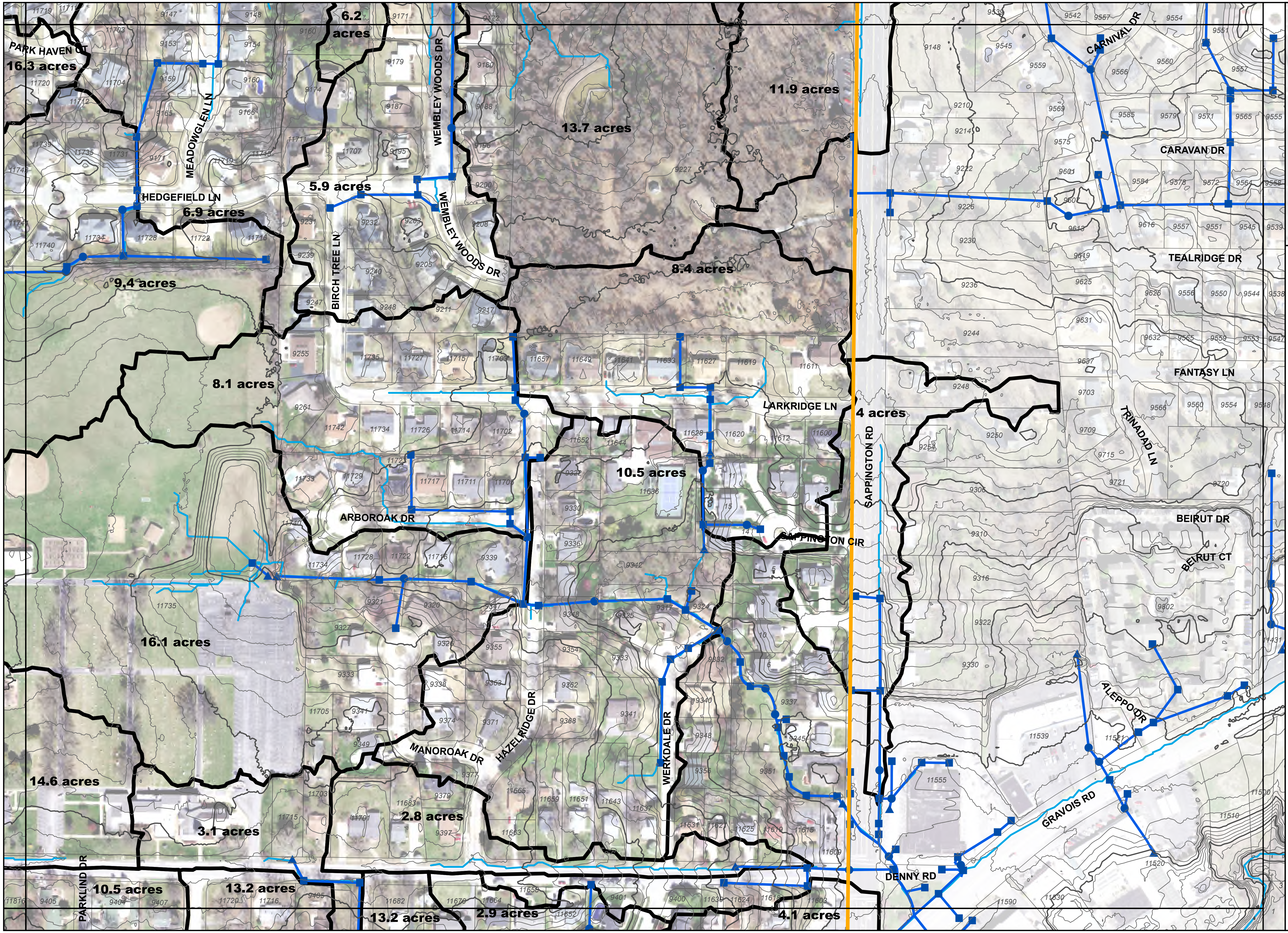

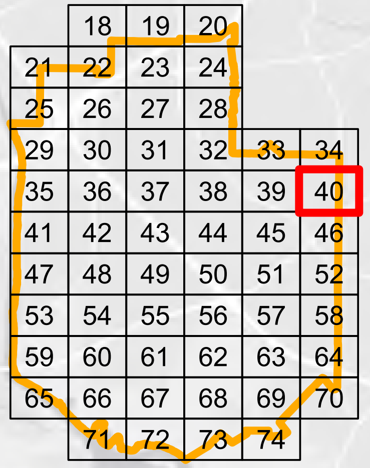

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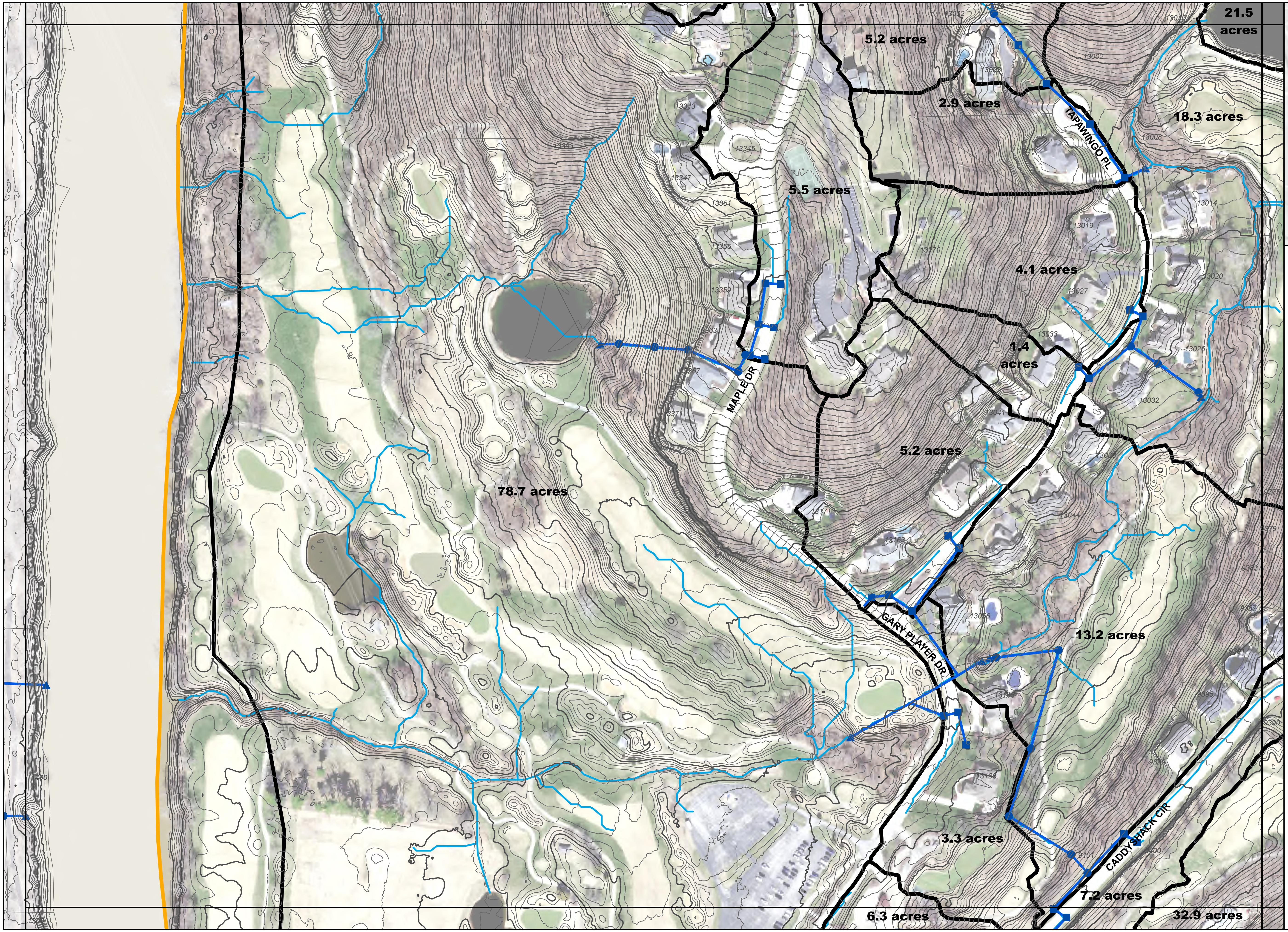

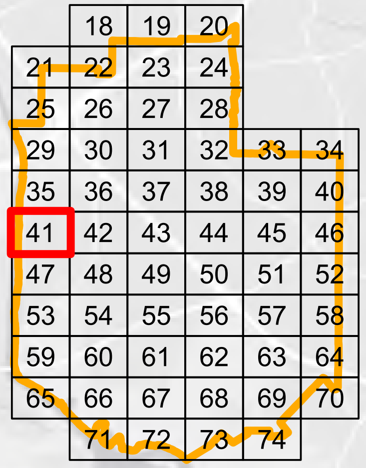

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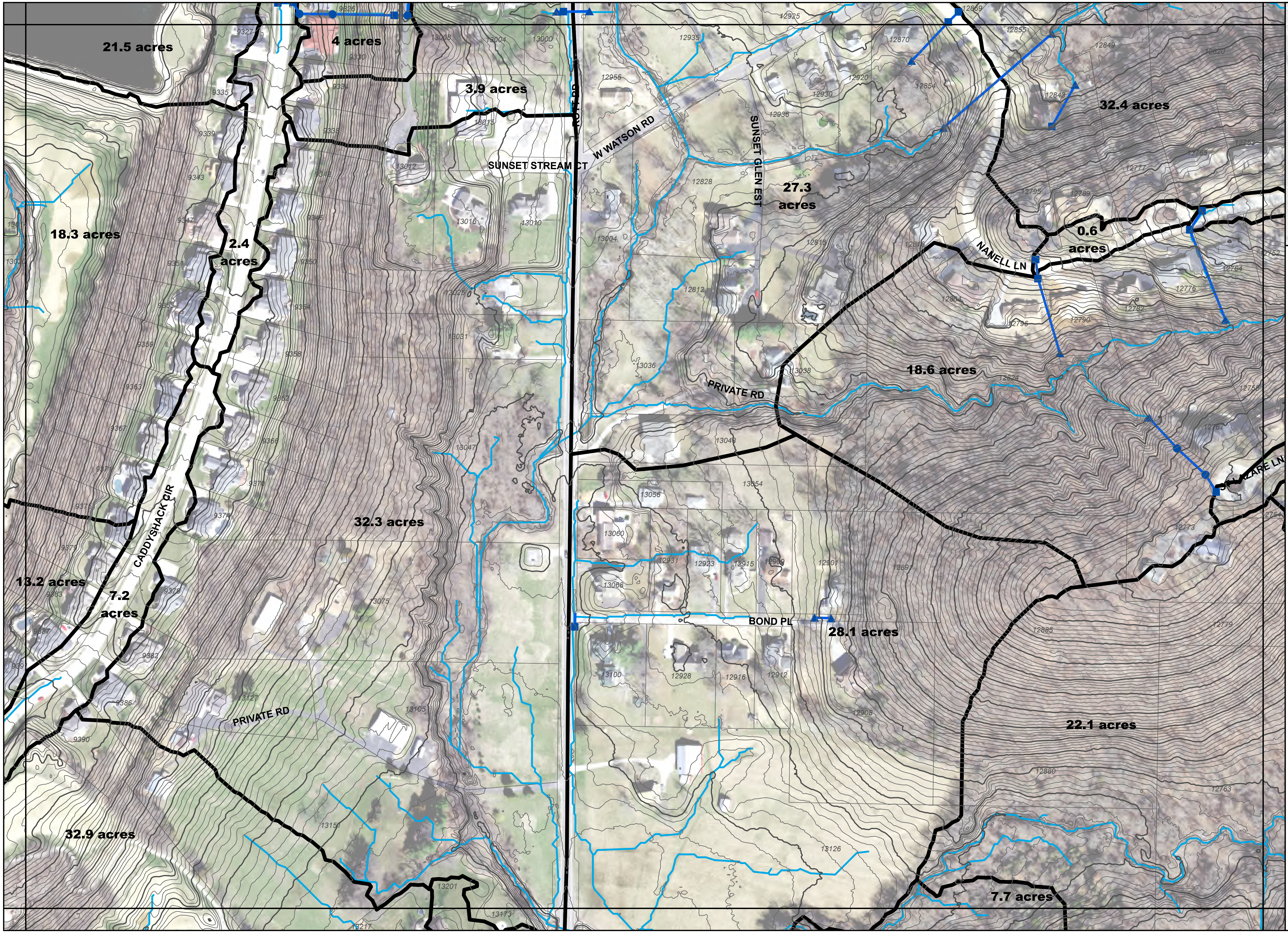

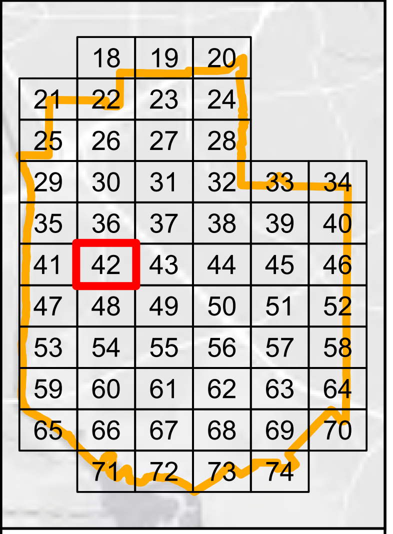

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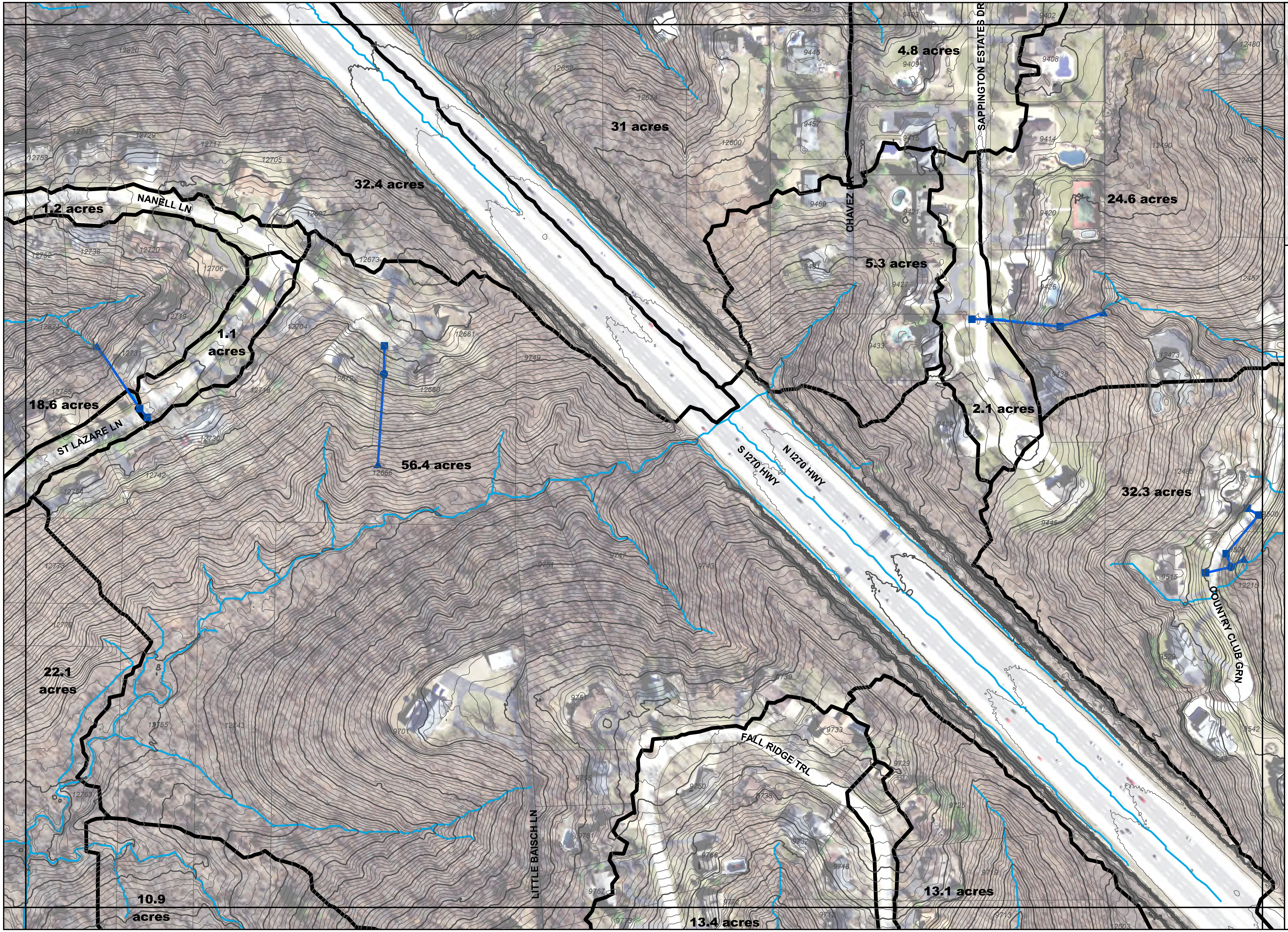

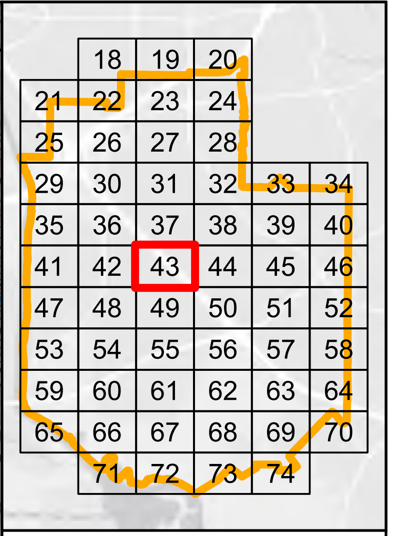

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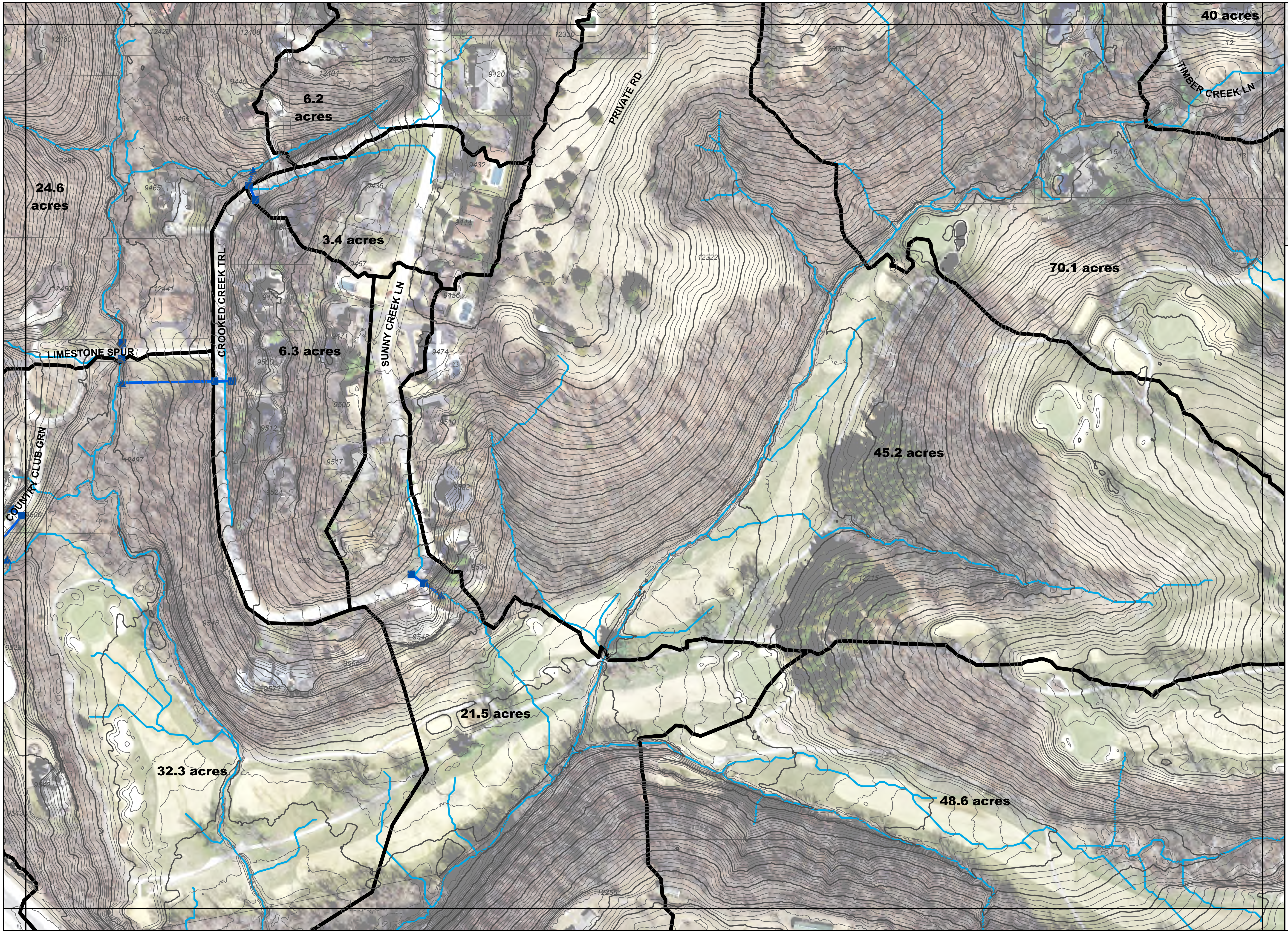

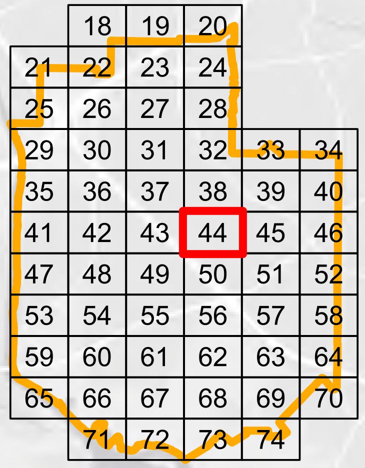

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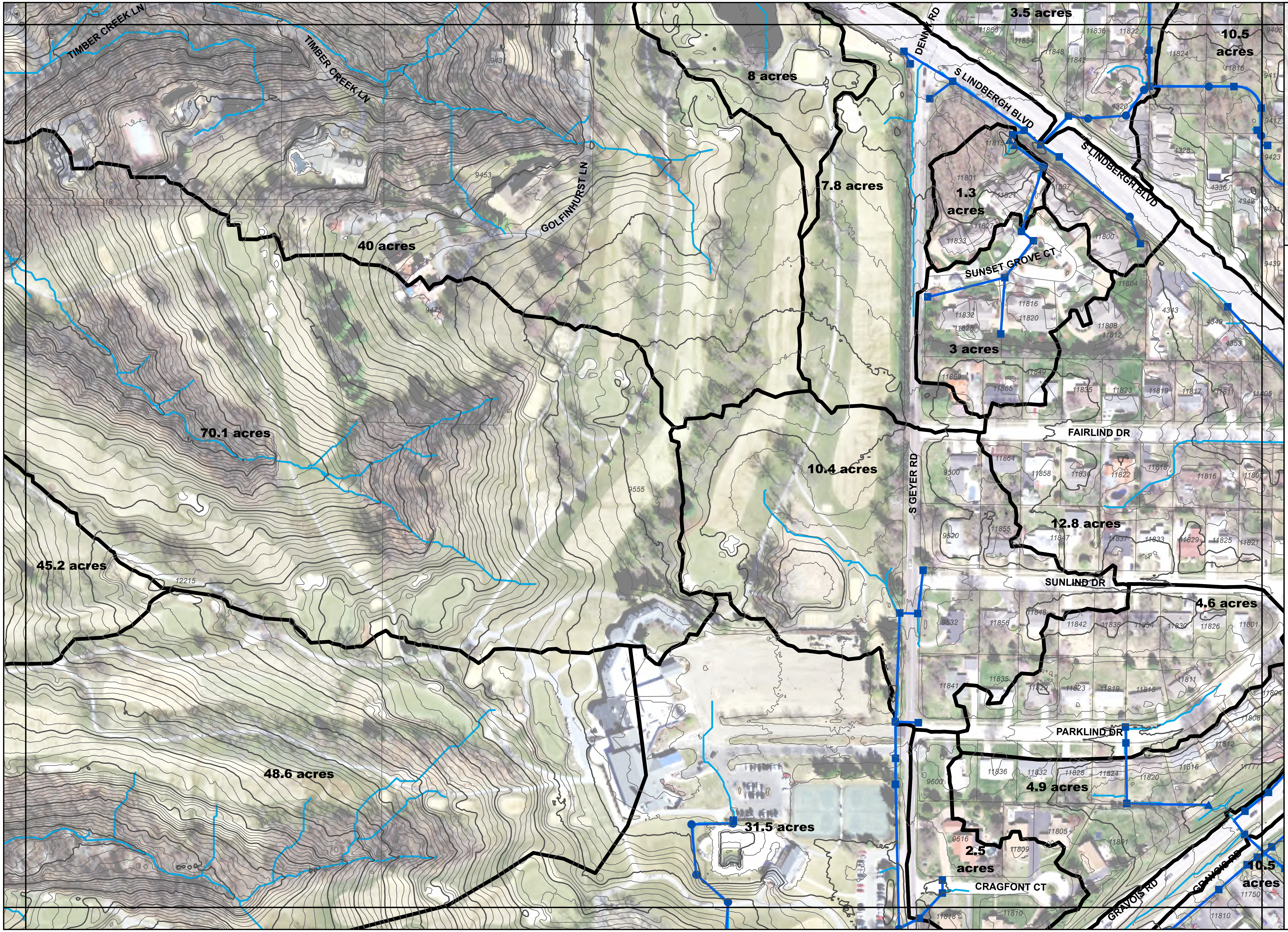

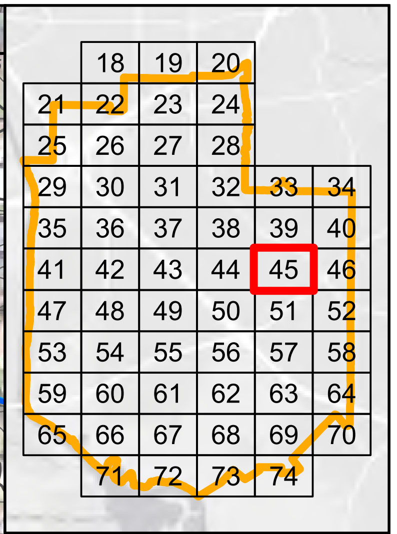

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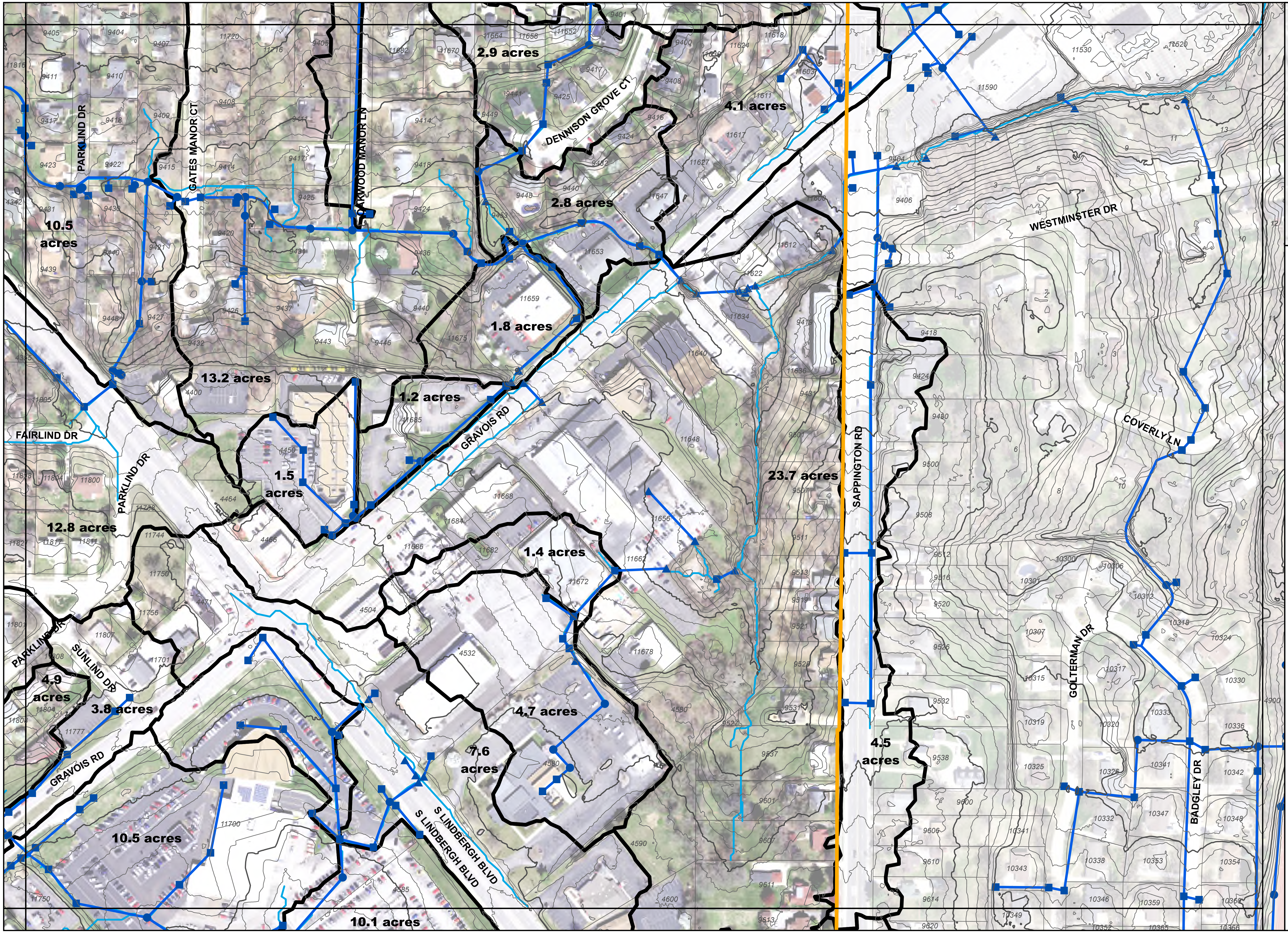

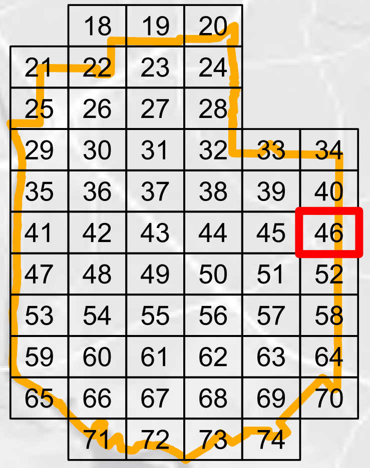

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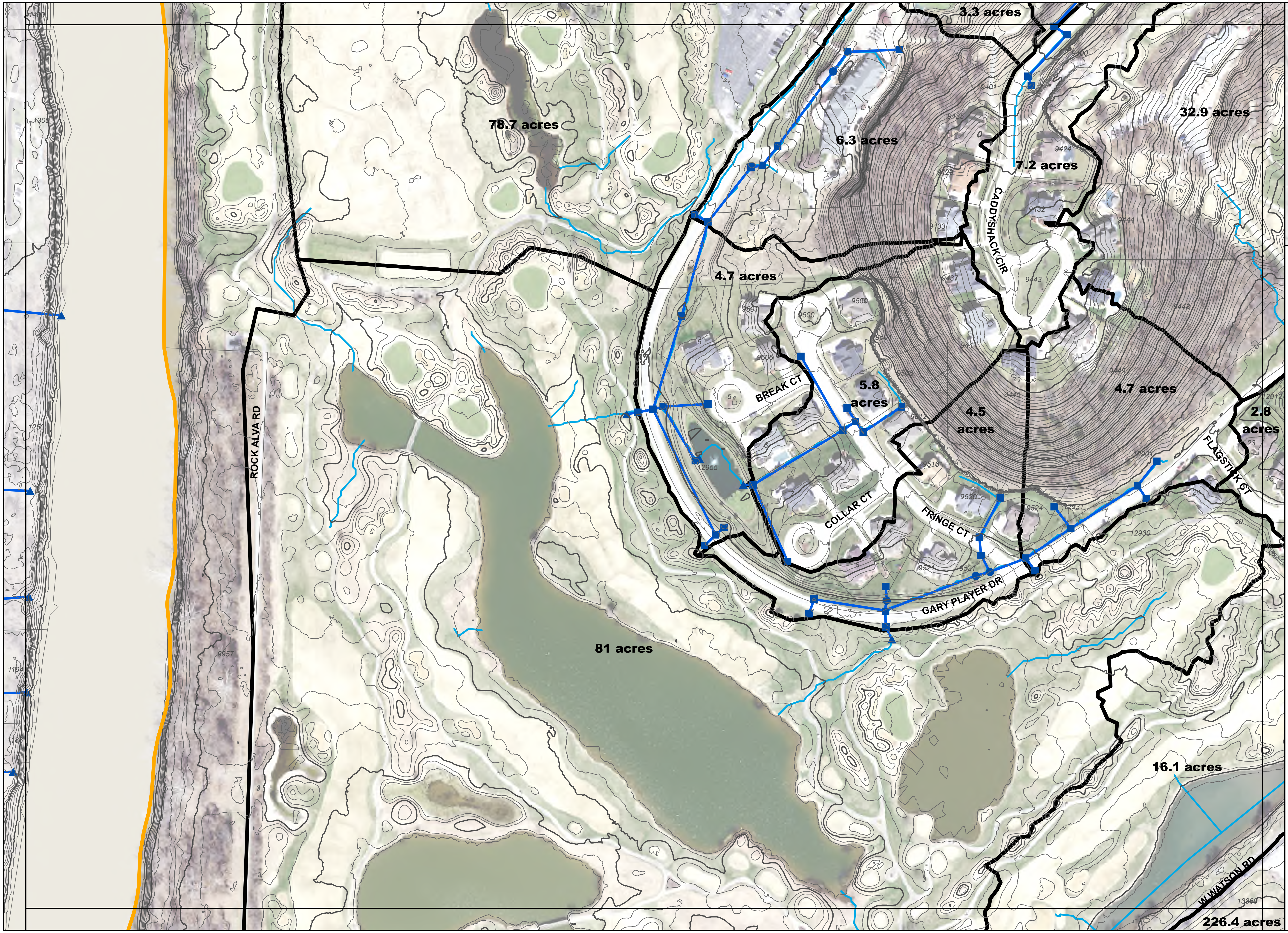

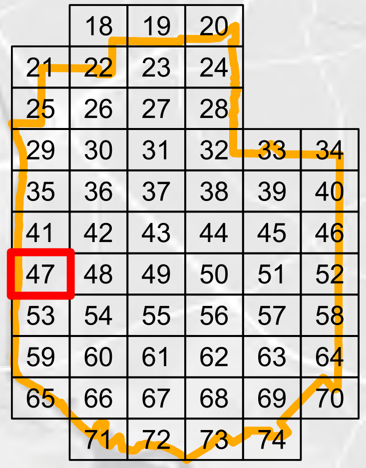

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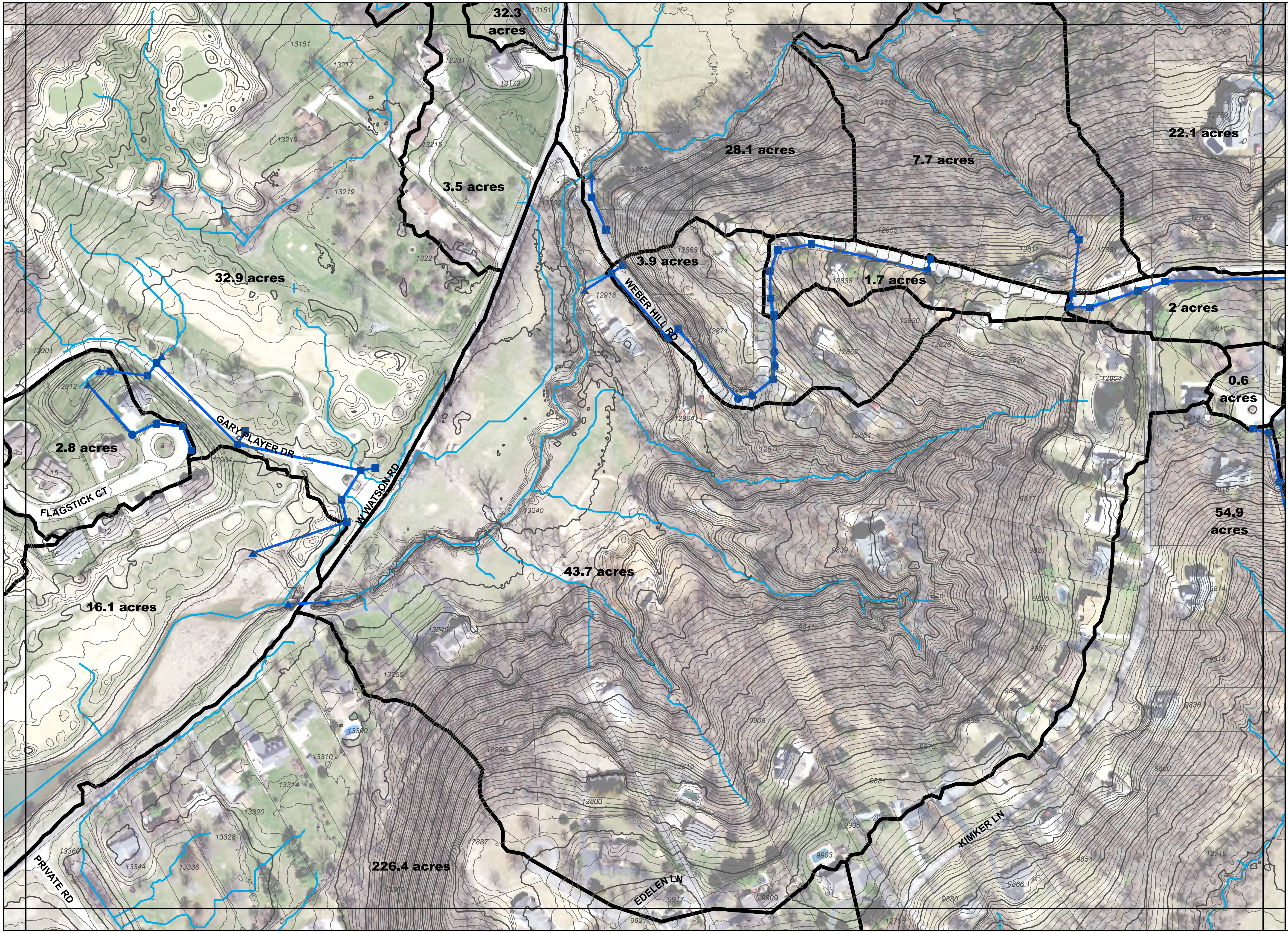

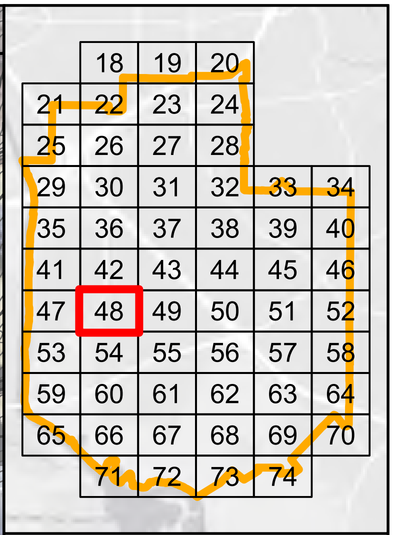

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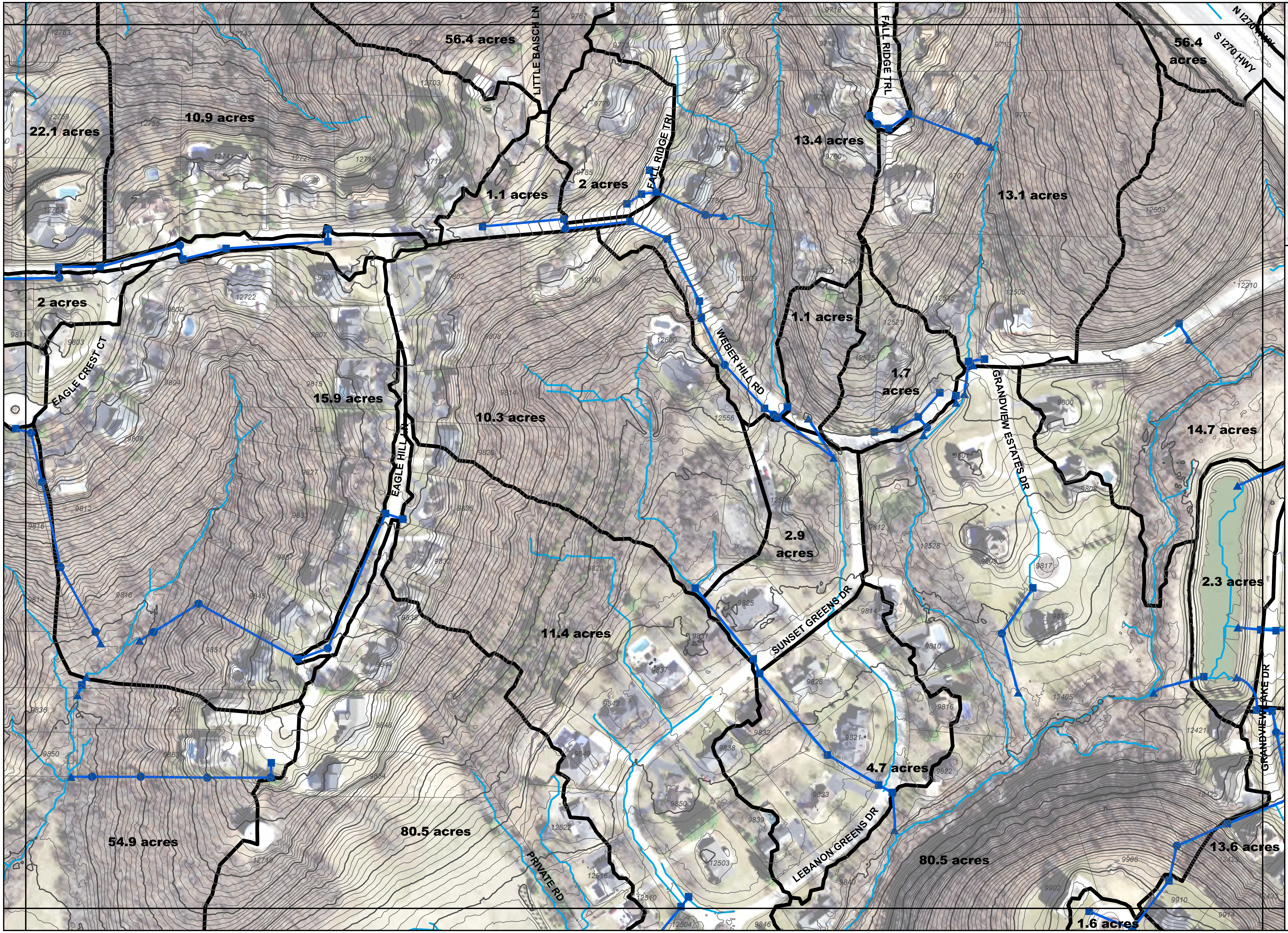

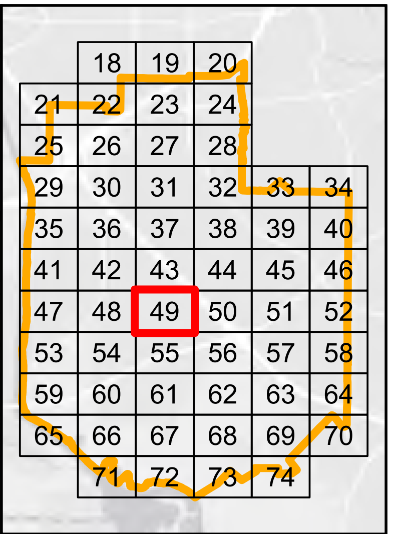

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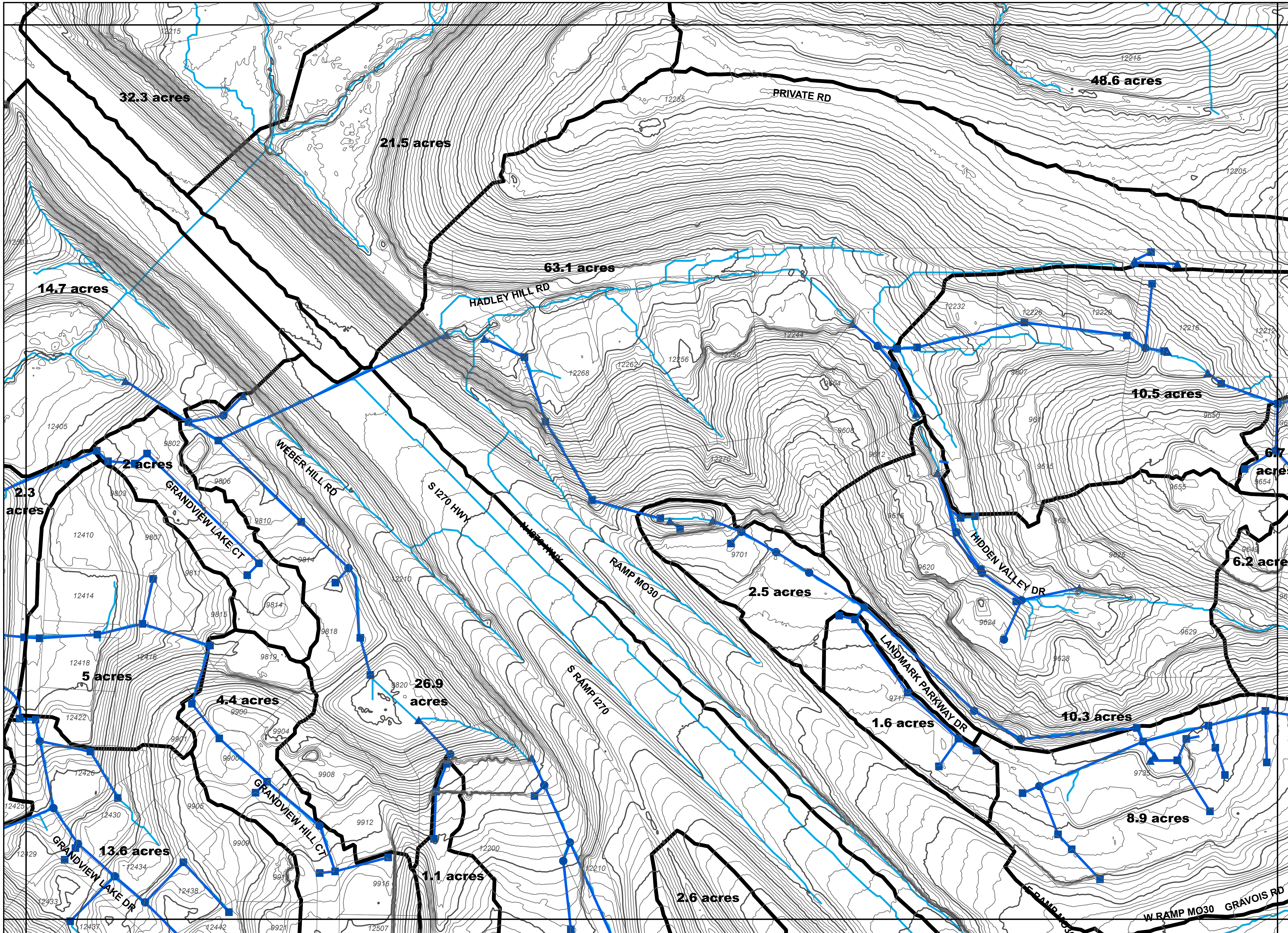

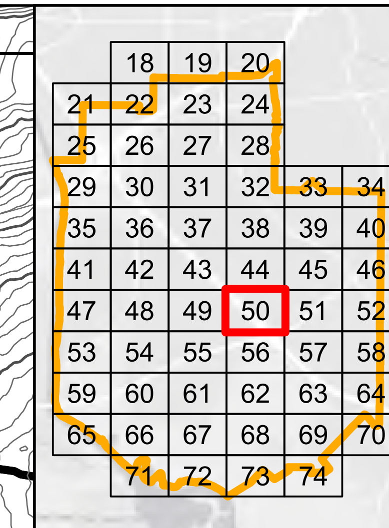

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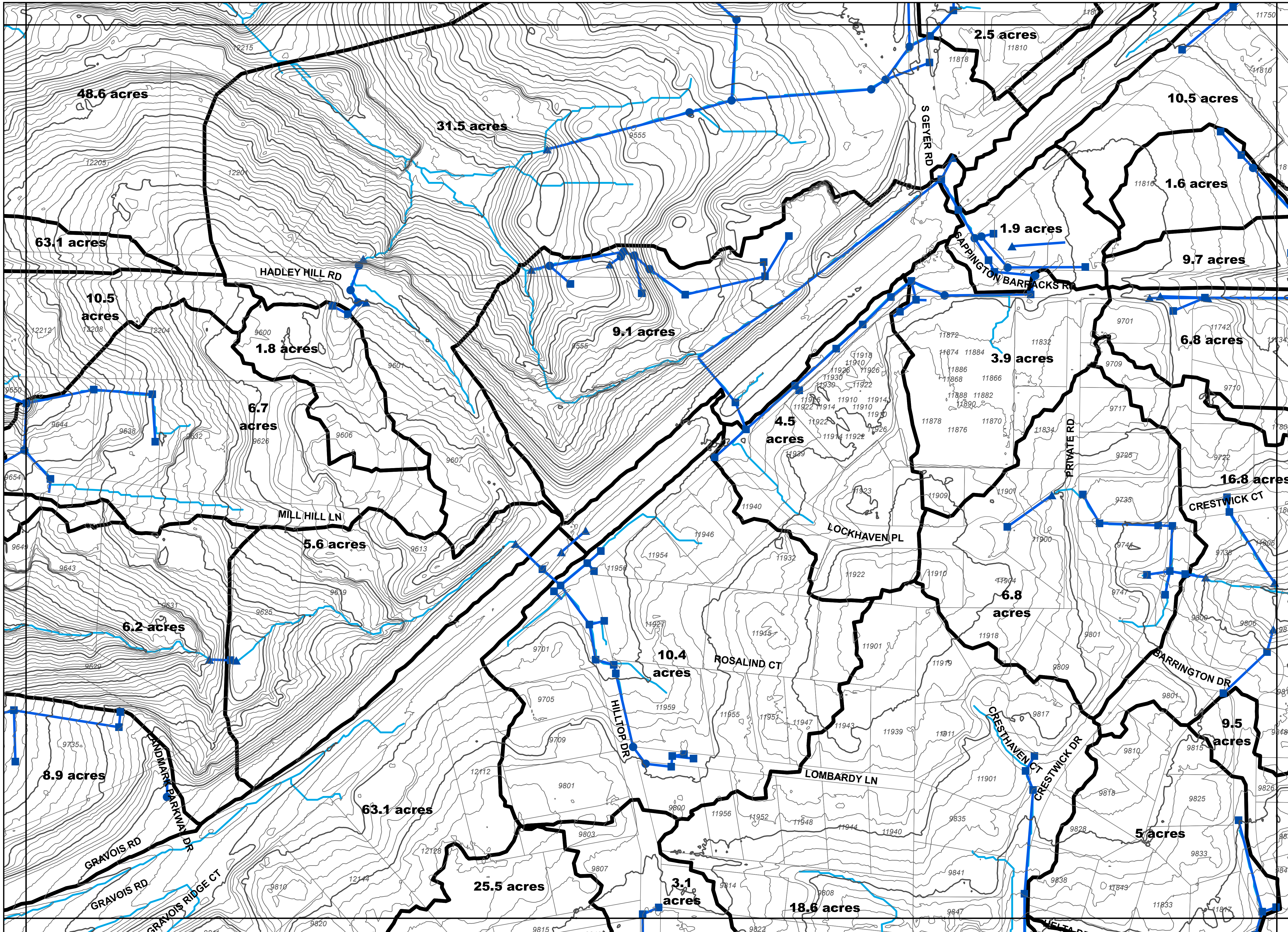

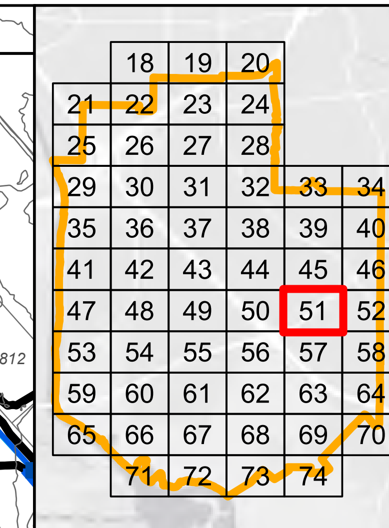

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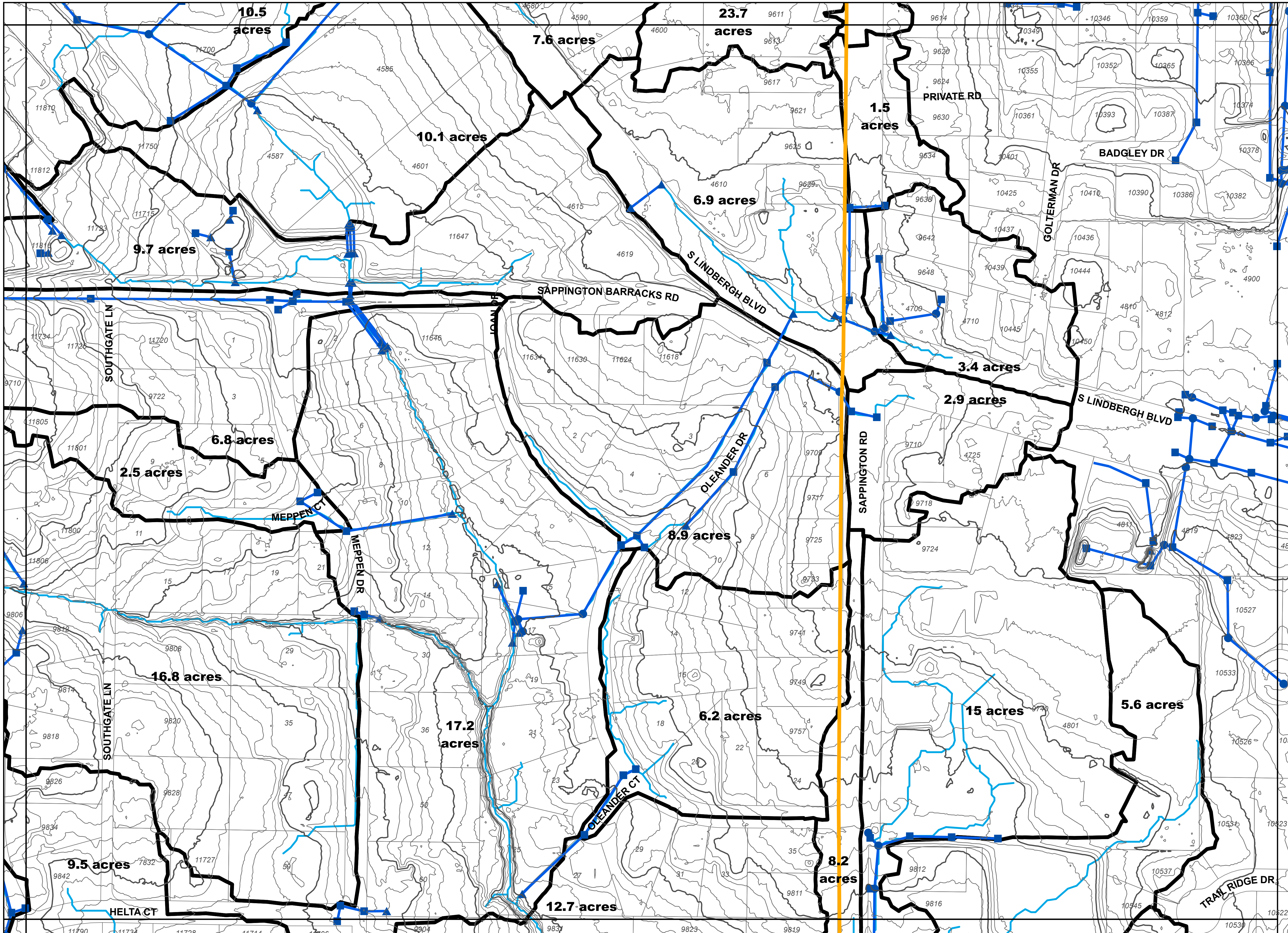

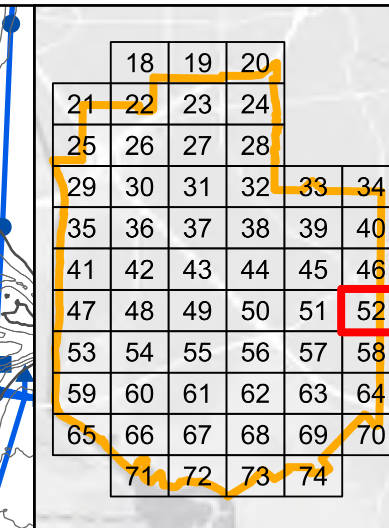

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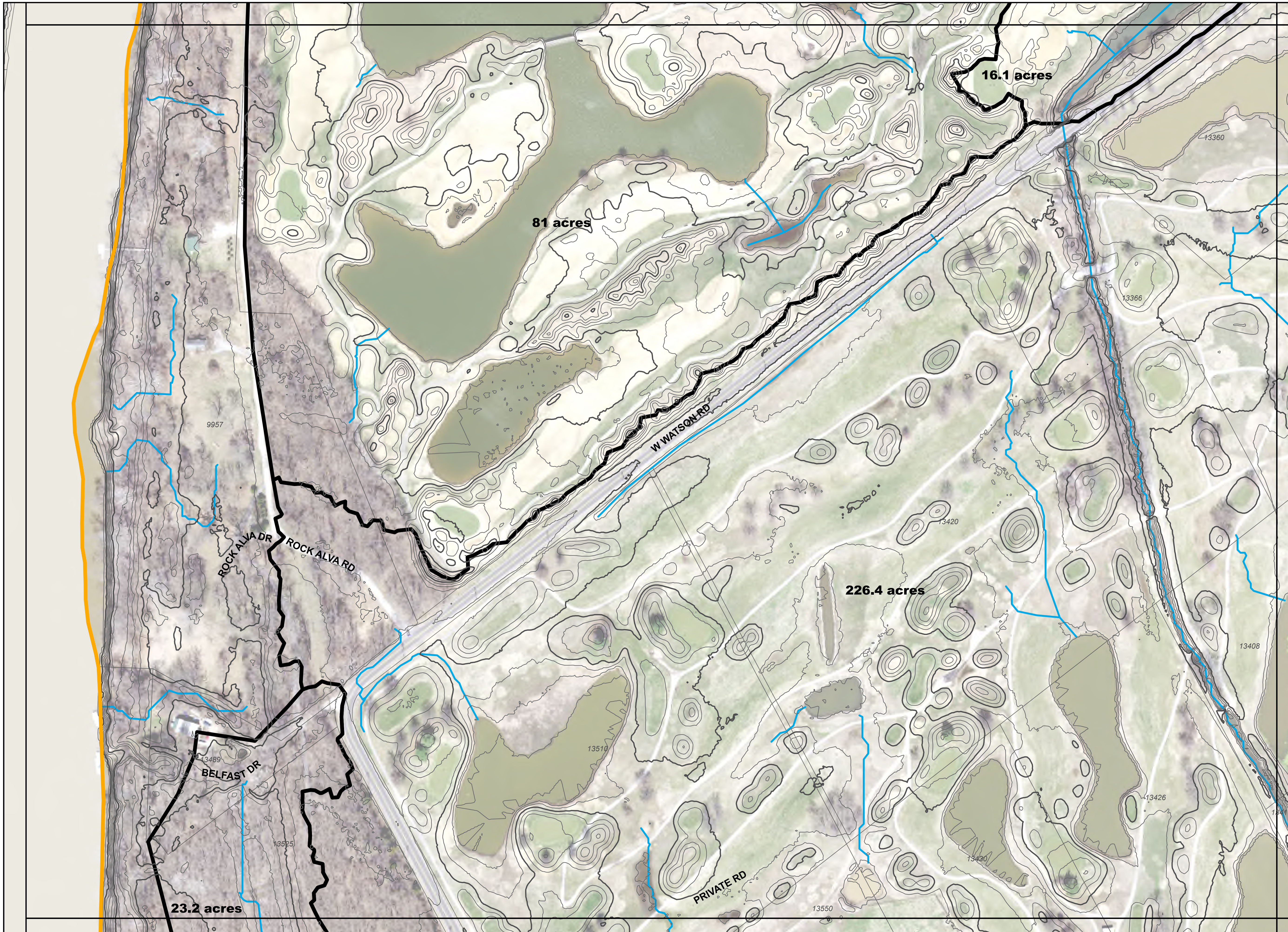

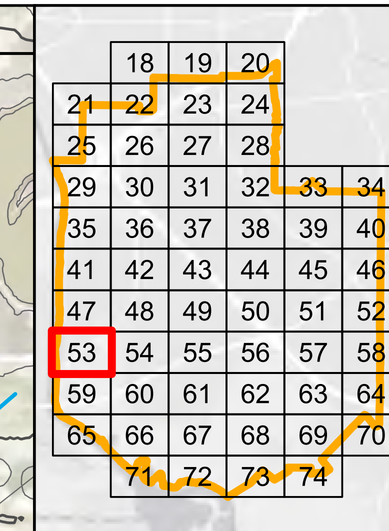

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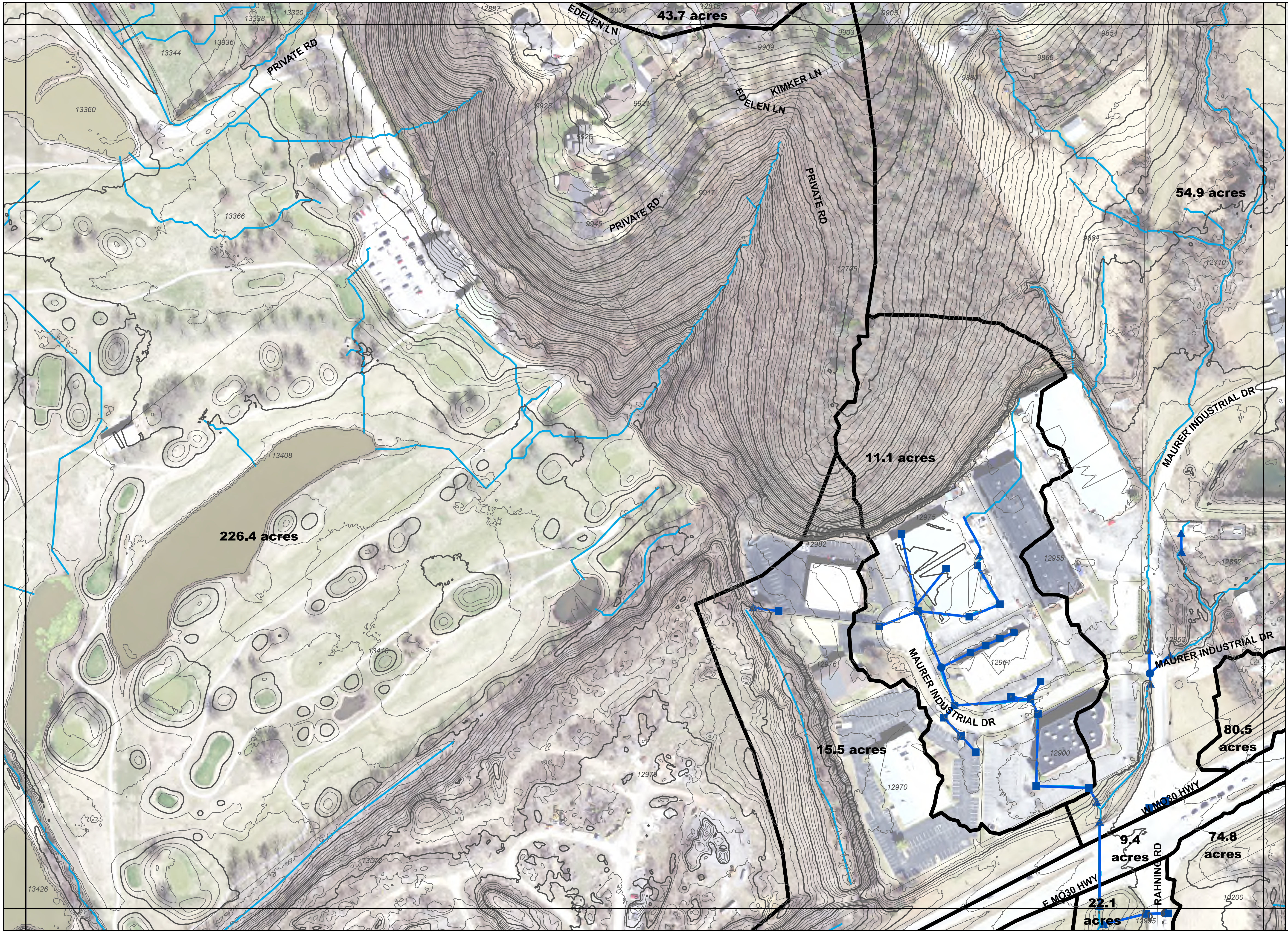

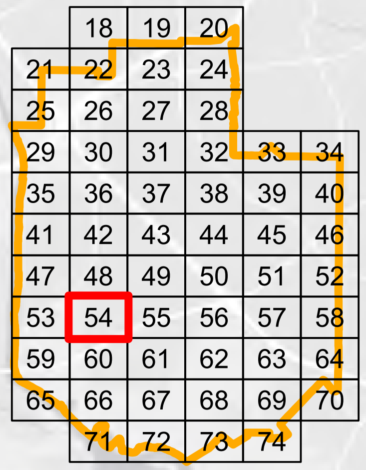

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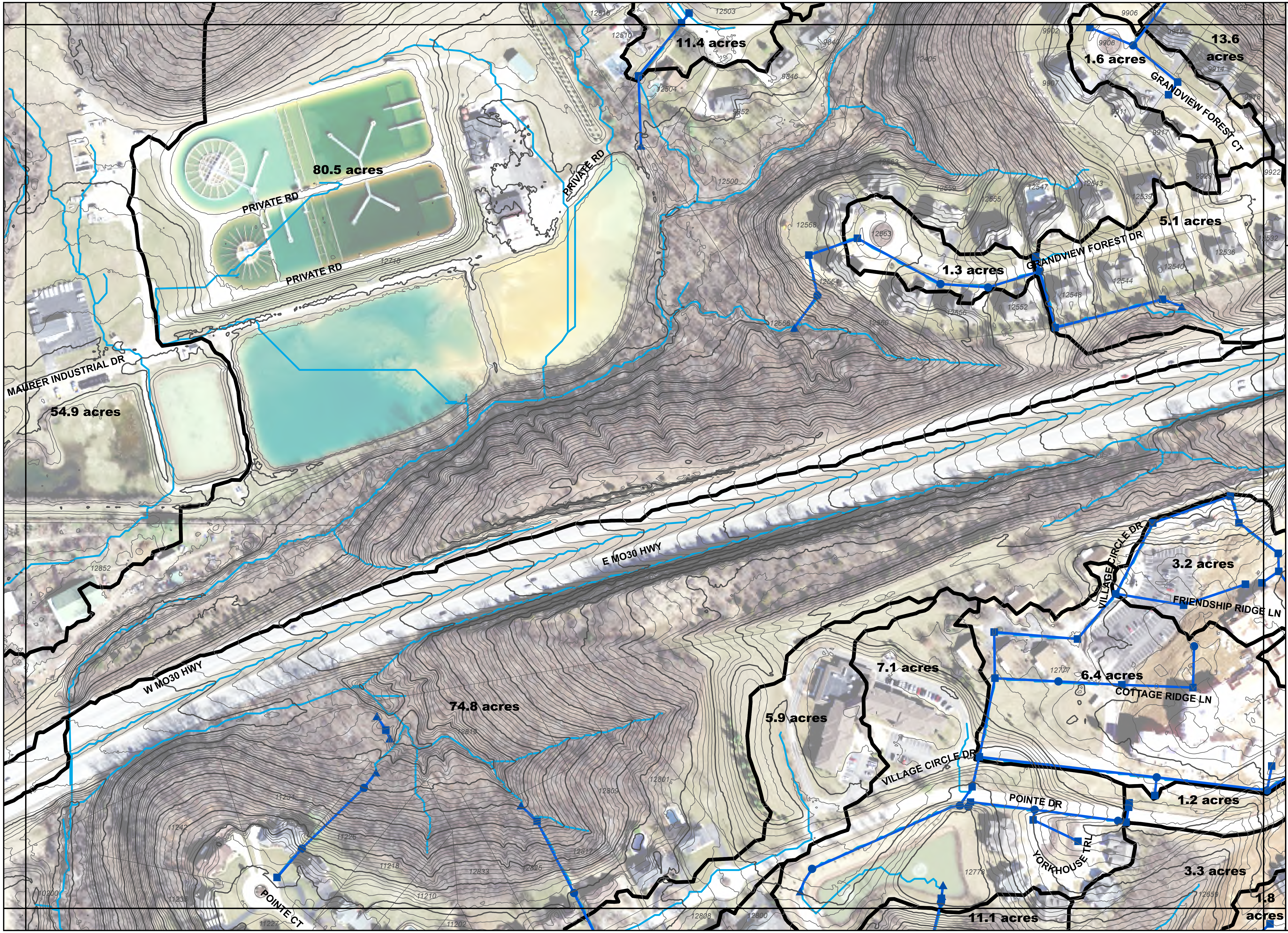

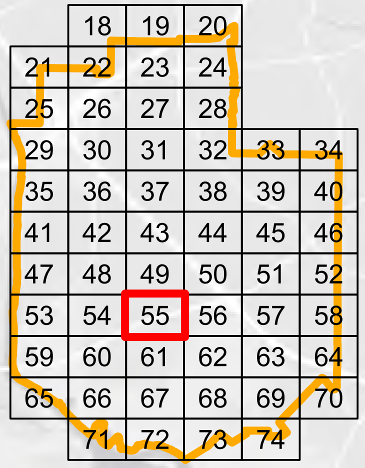

Sunset Hills

Sunset Hills Stormwater Master Plan

Appendix A4: Flow Path and Watershed Maps

Legend

- Watershed
- Flow Path Line
- Sunset Hills Boundary

Existing Storm System

- Intake/Outfall
- Manhole
- Inlet
- Storm Sewer

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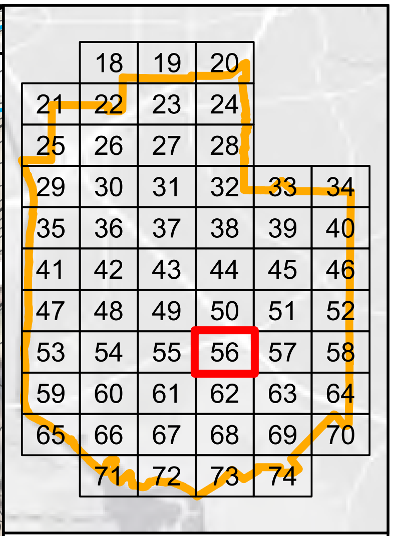

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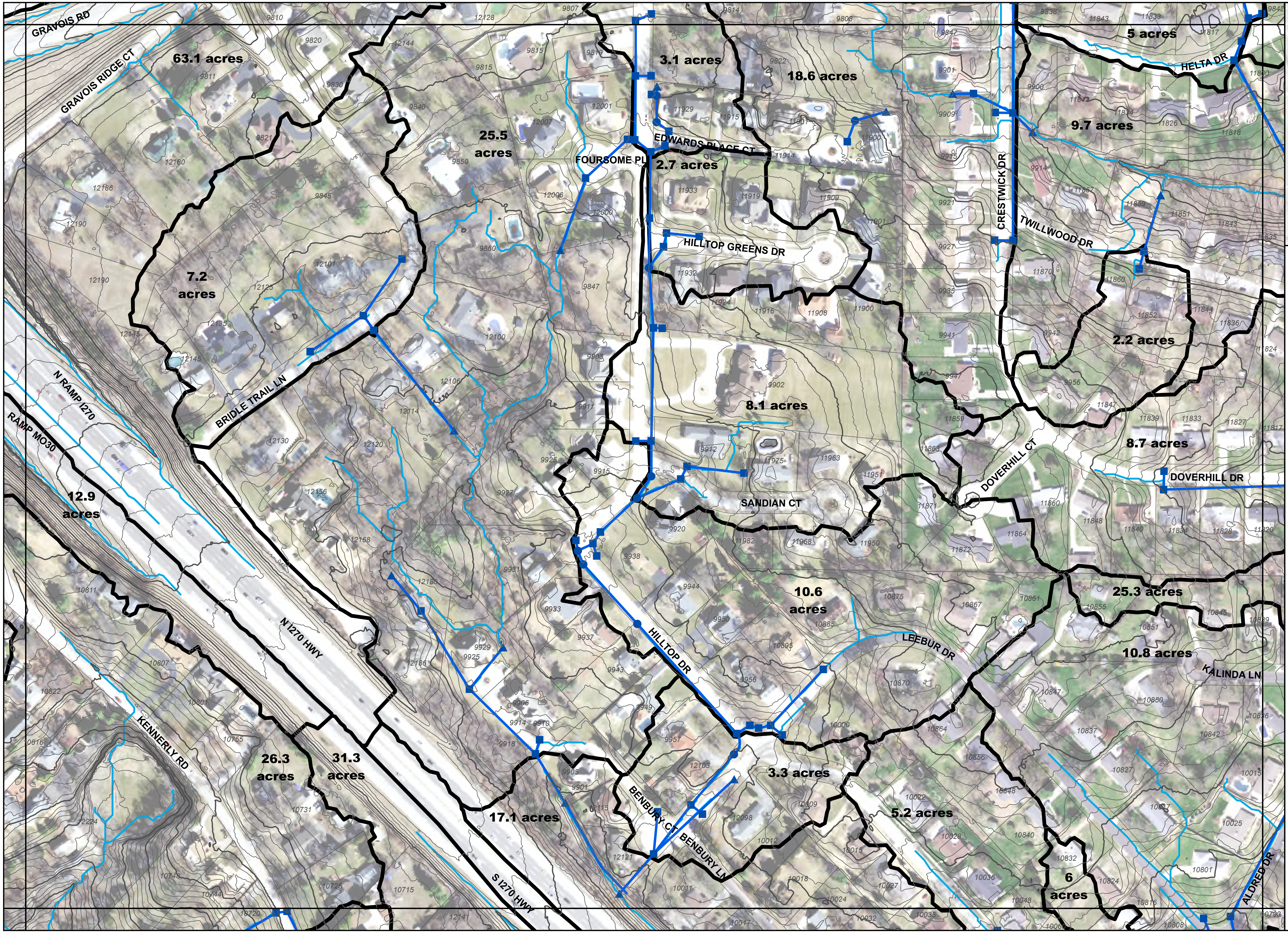

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47	48	49	50	51	52
53	54	55	56	57	58
59	60	61	62	63	64
65	66	67	68	69	70
	71	72	73	74	

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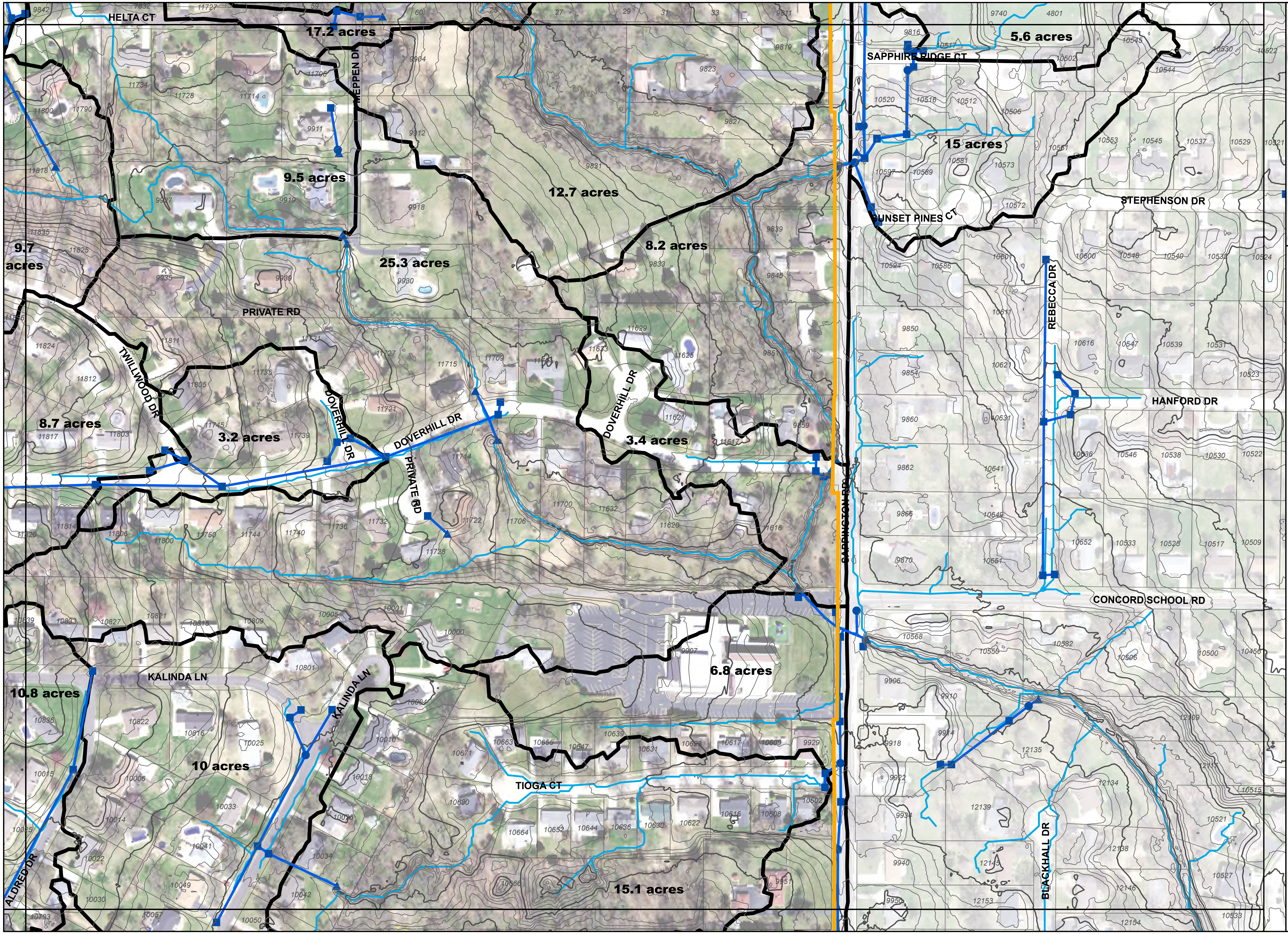

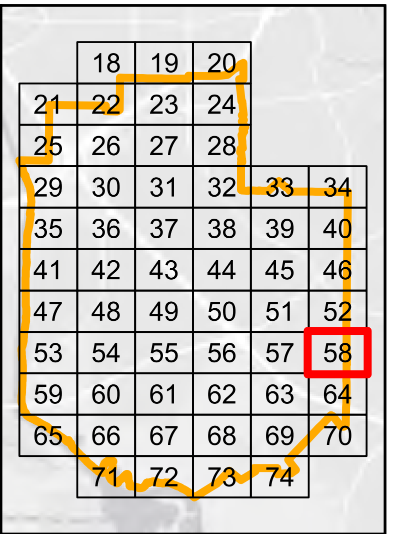

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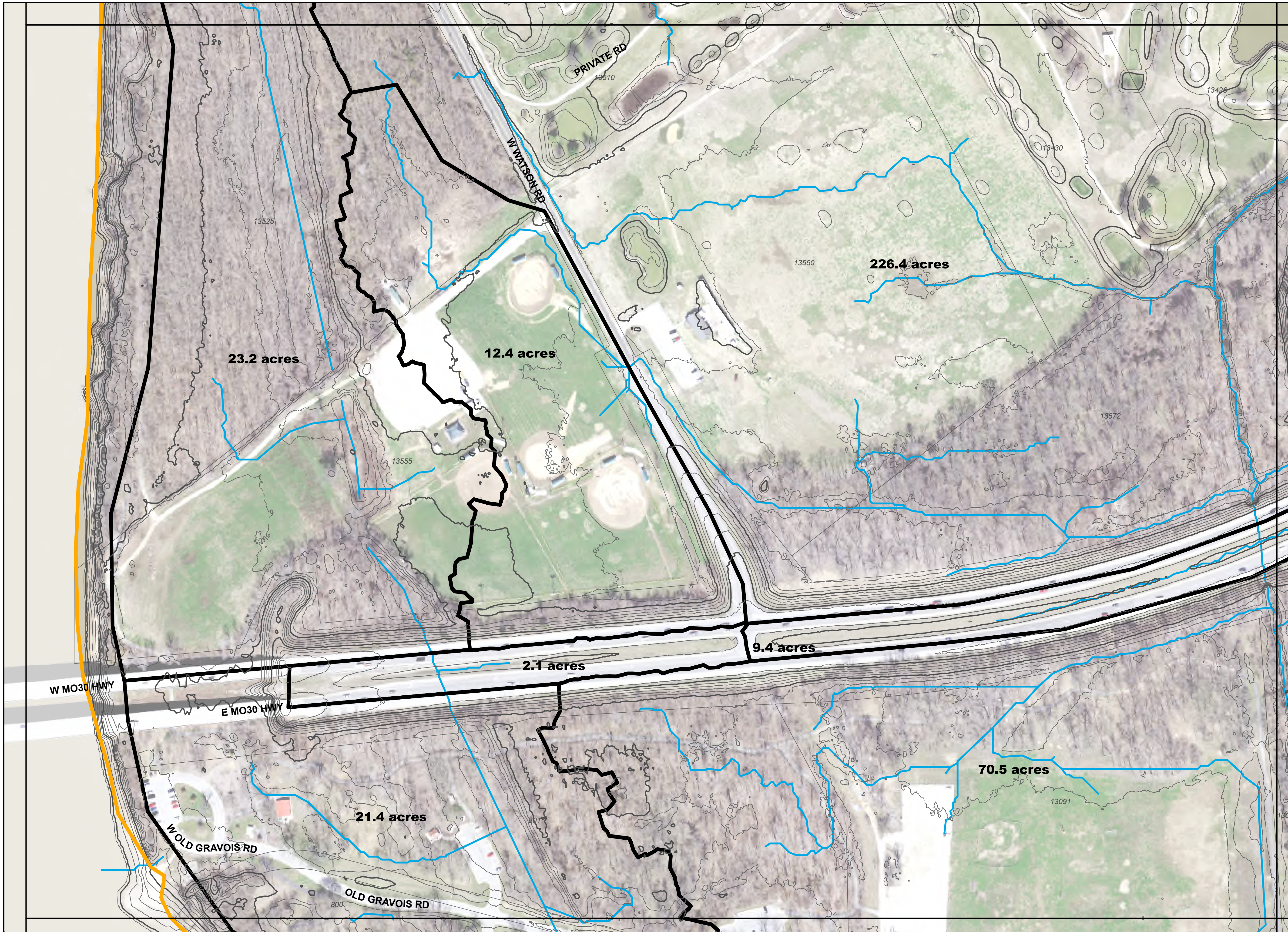

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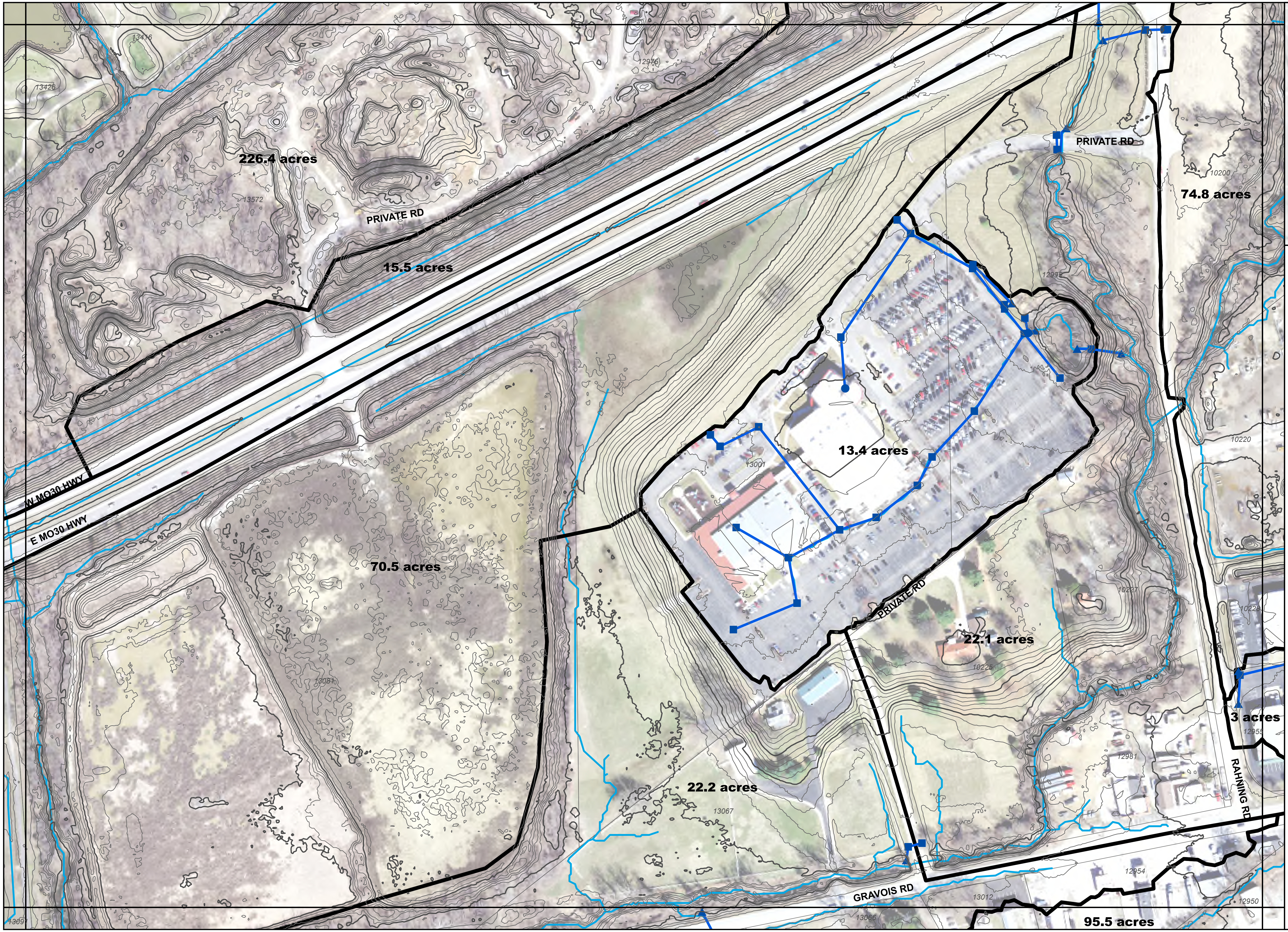

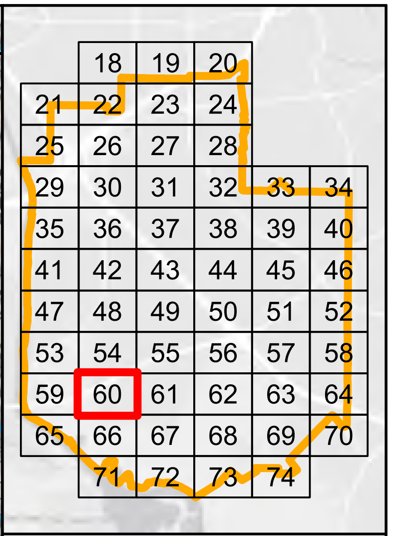

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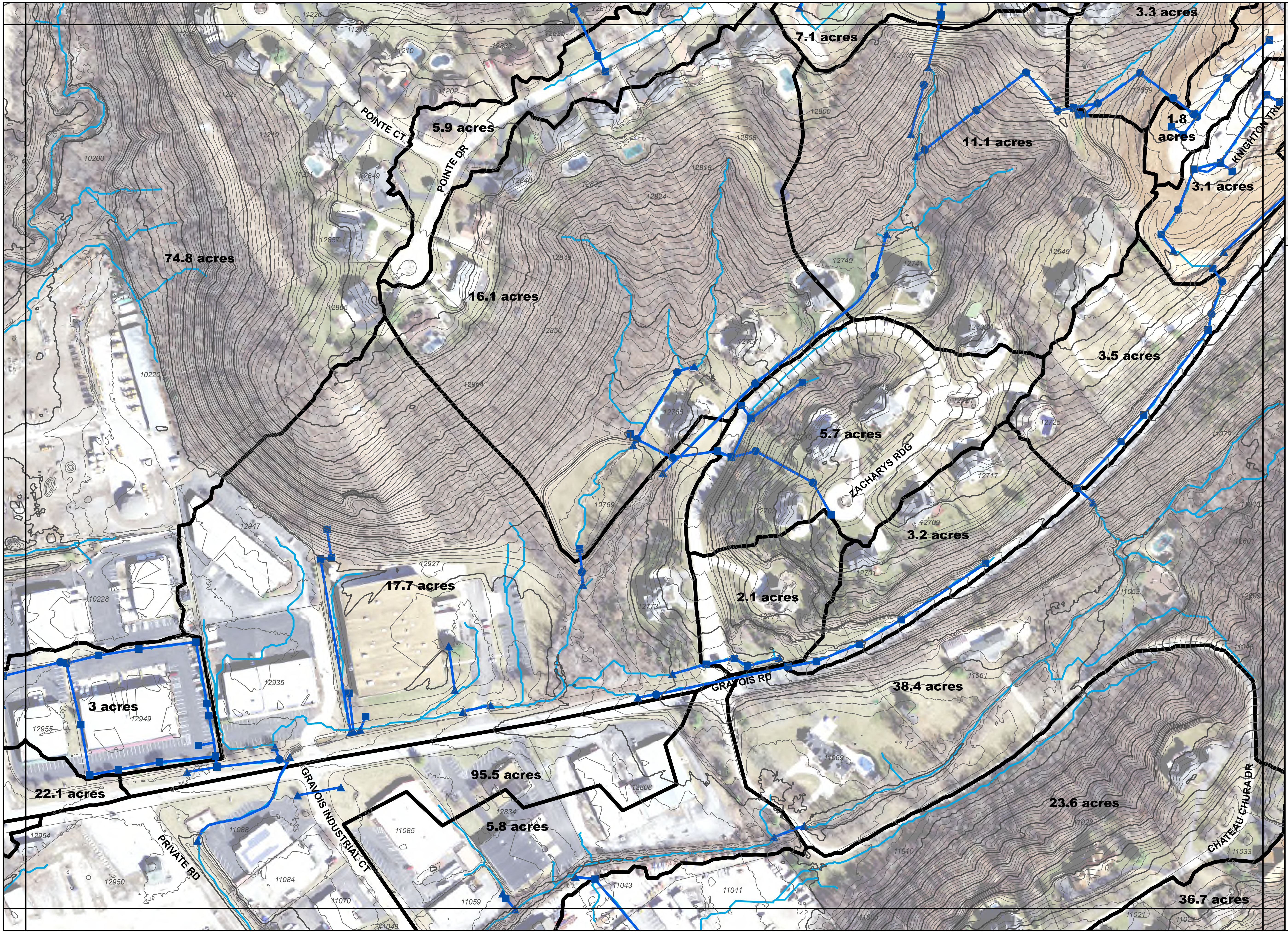

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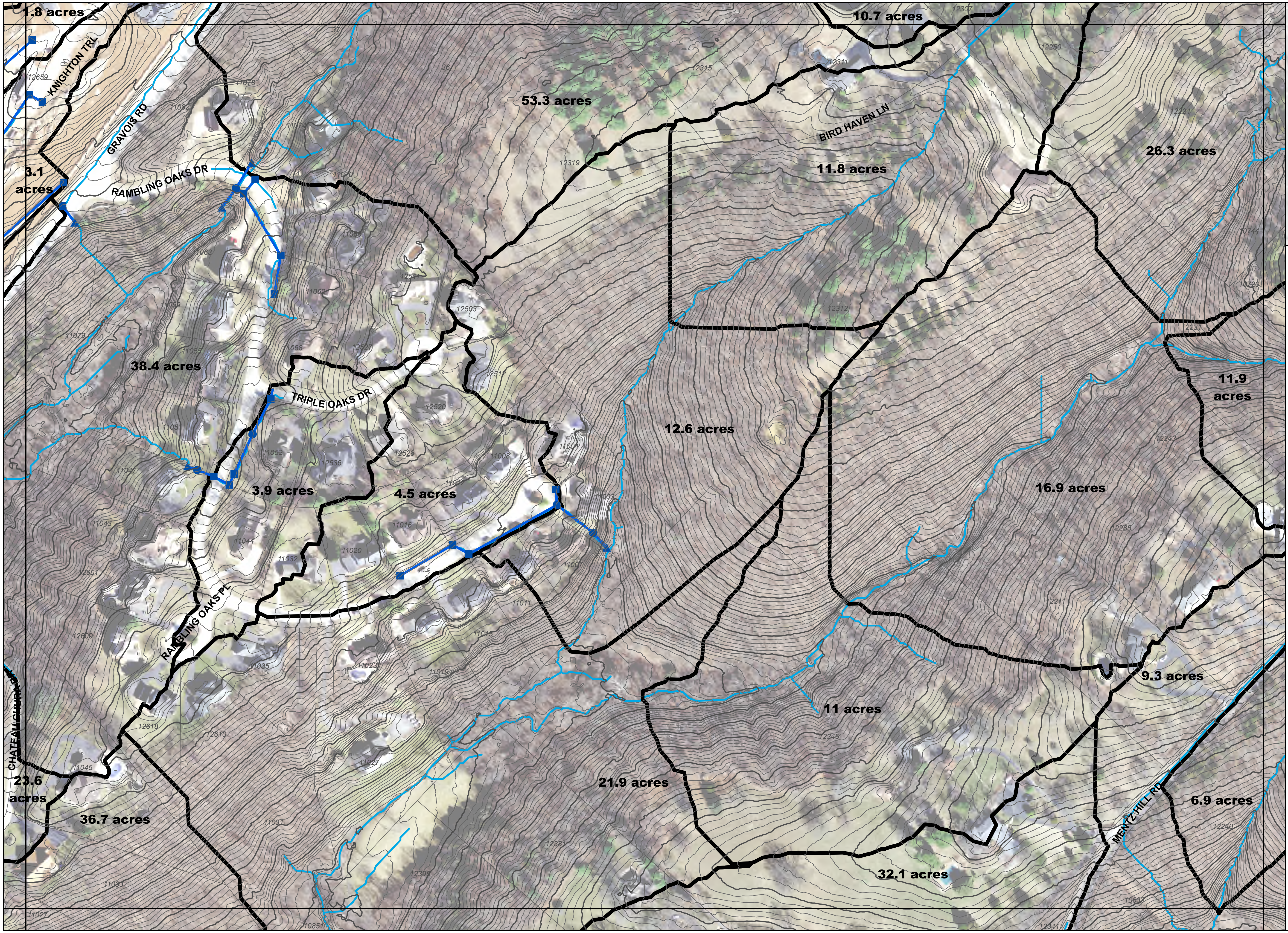

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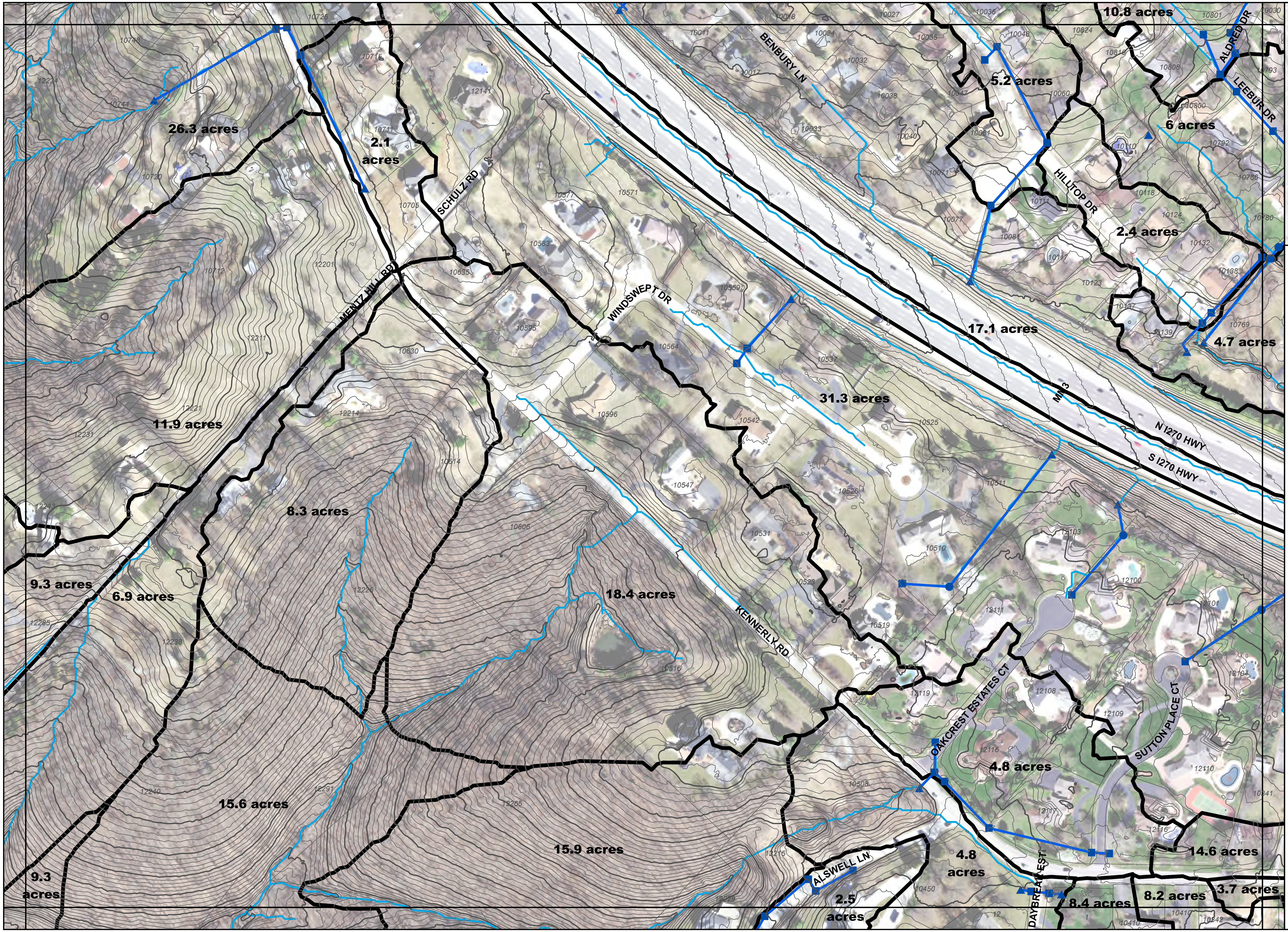

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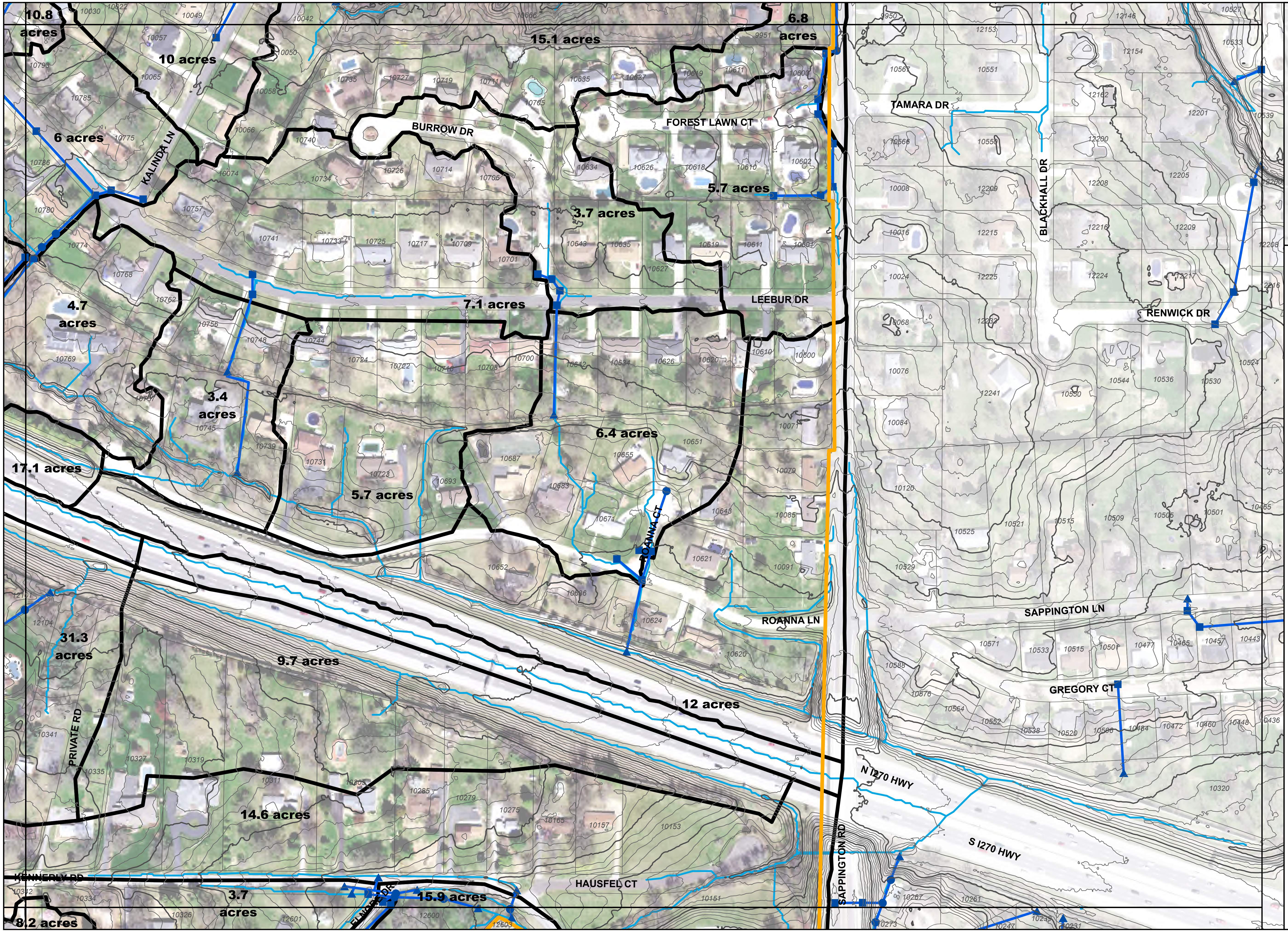

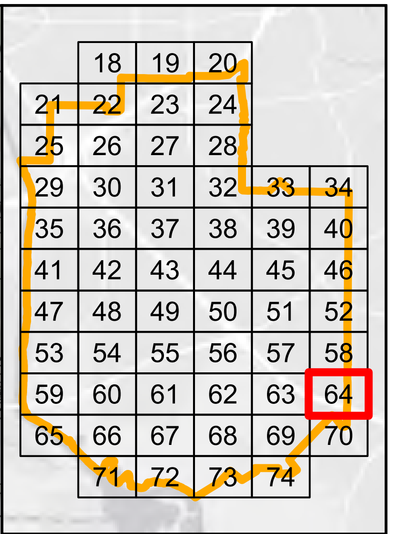

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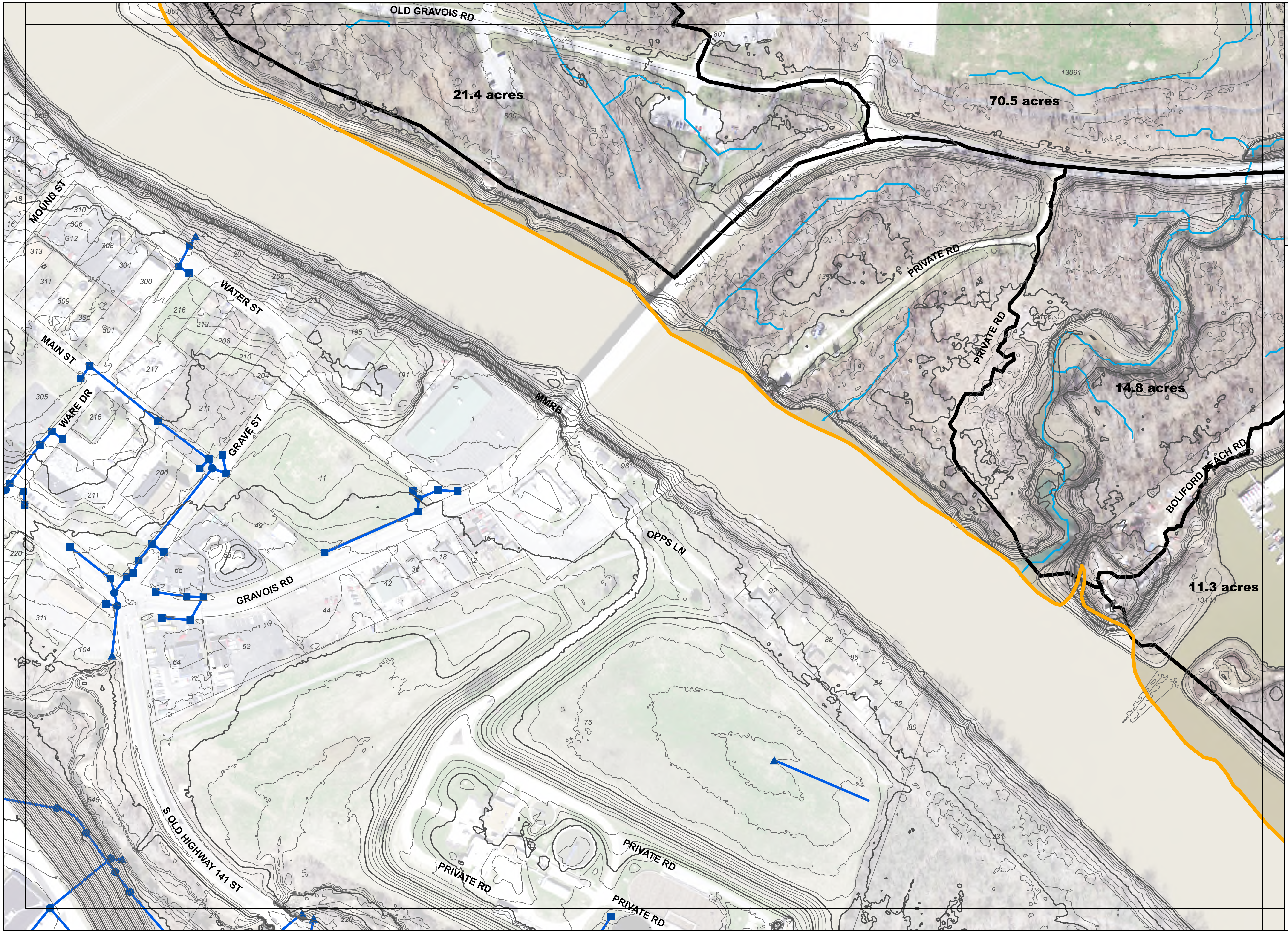

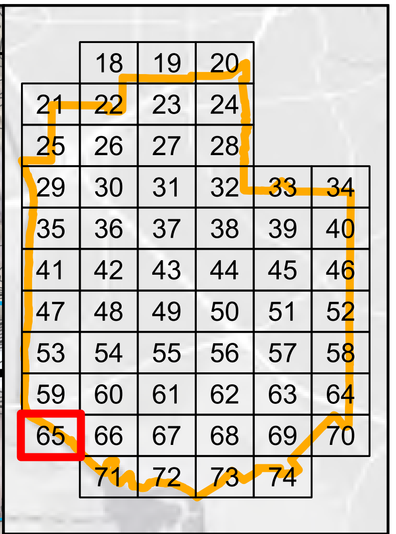

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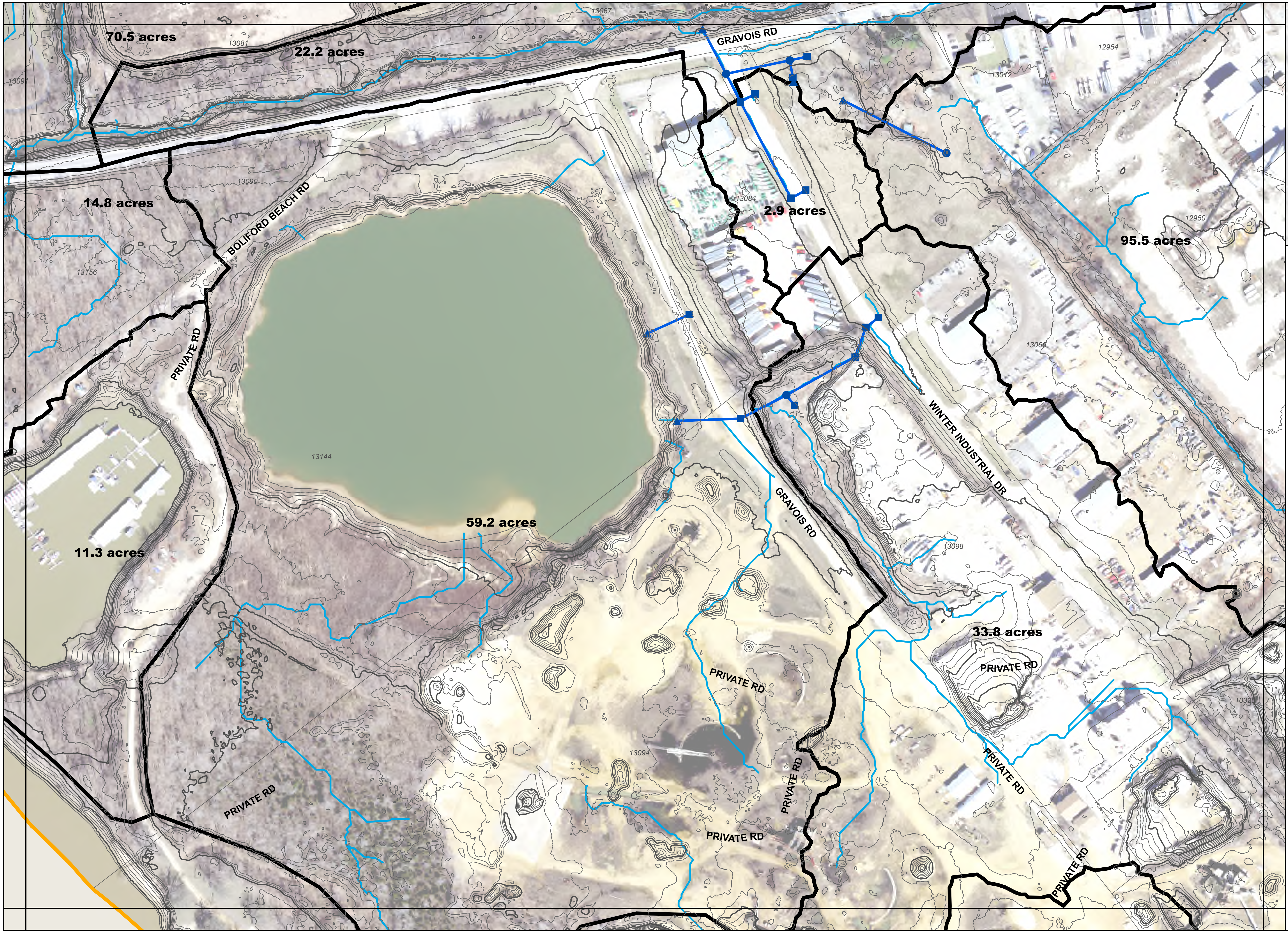

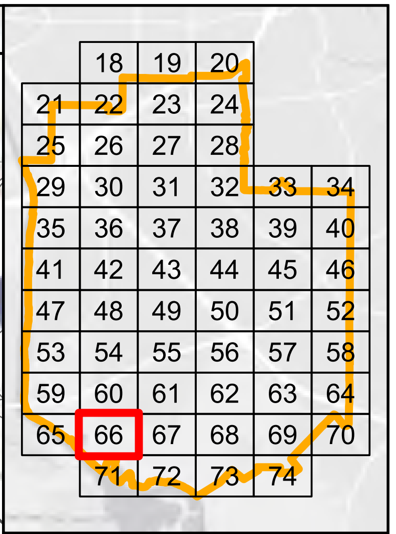

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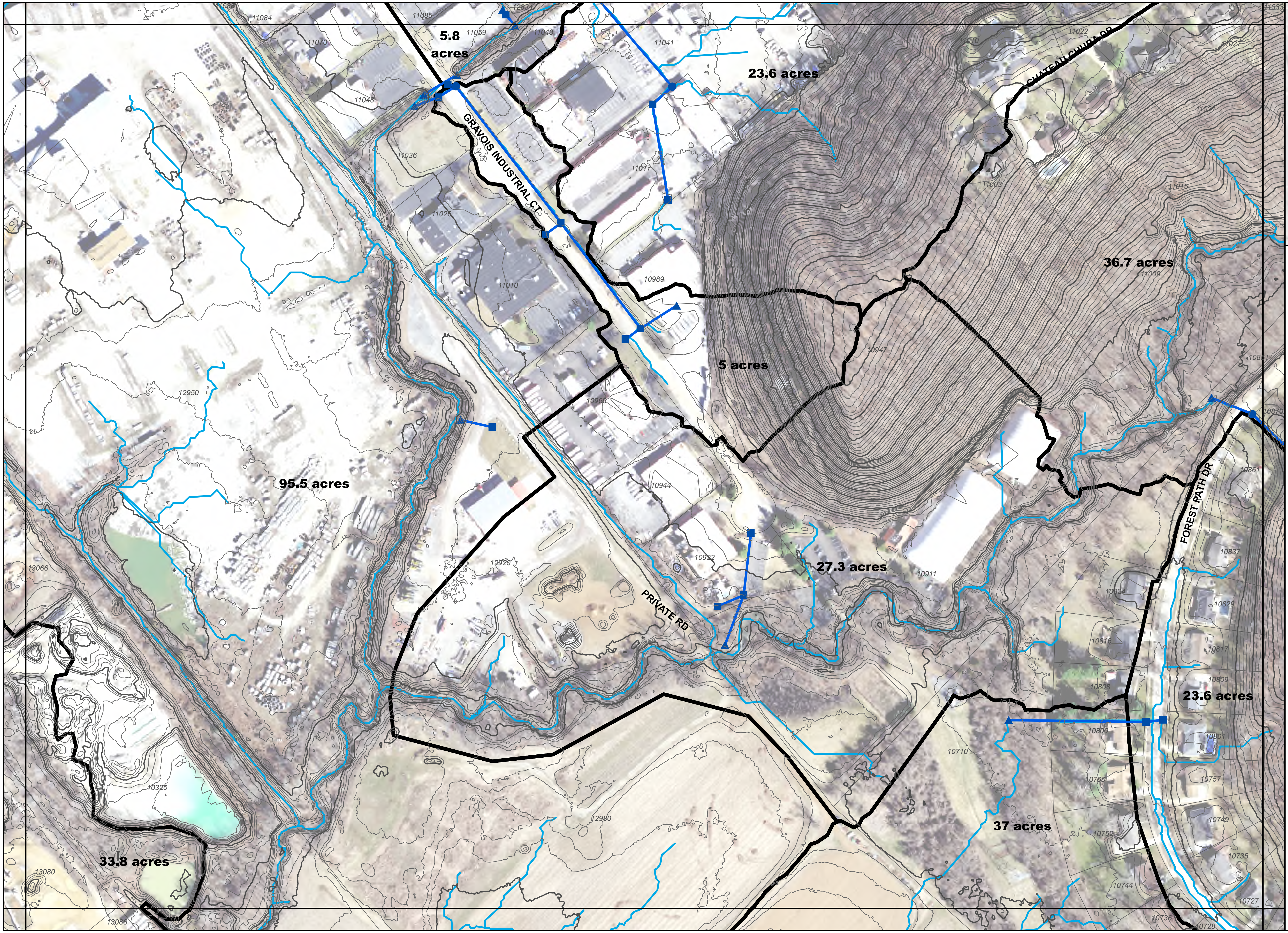

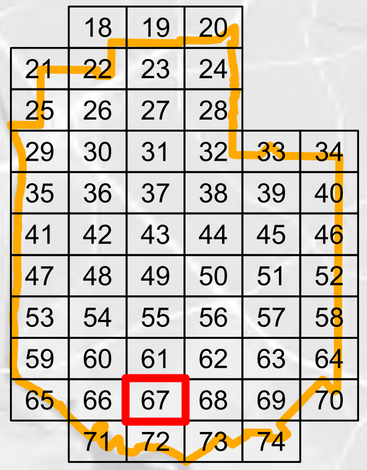

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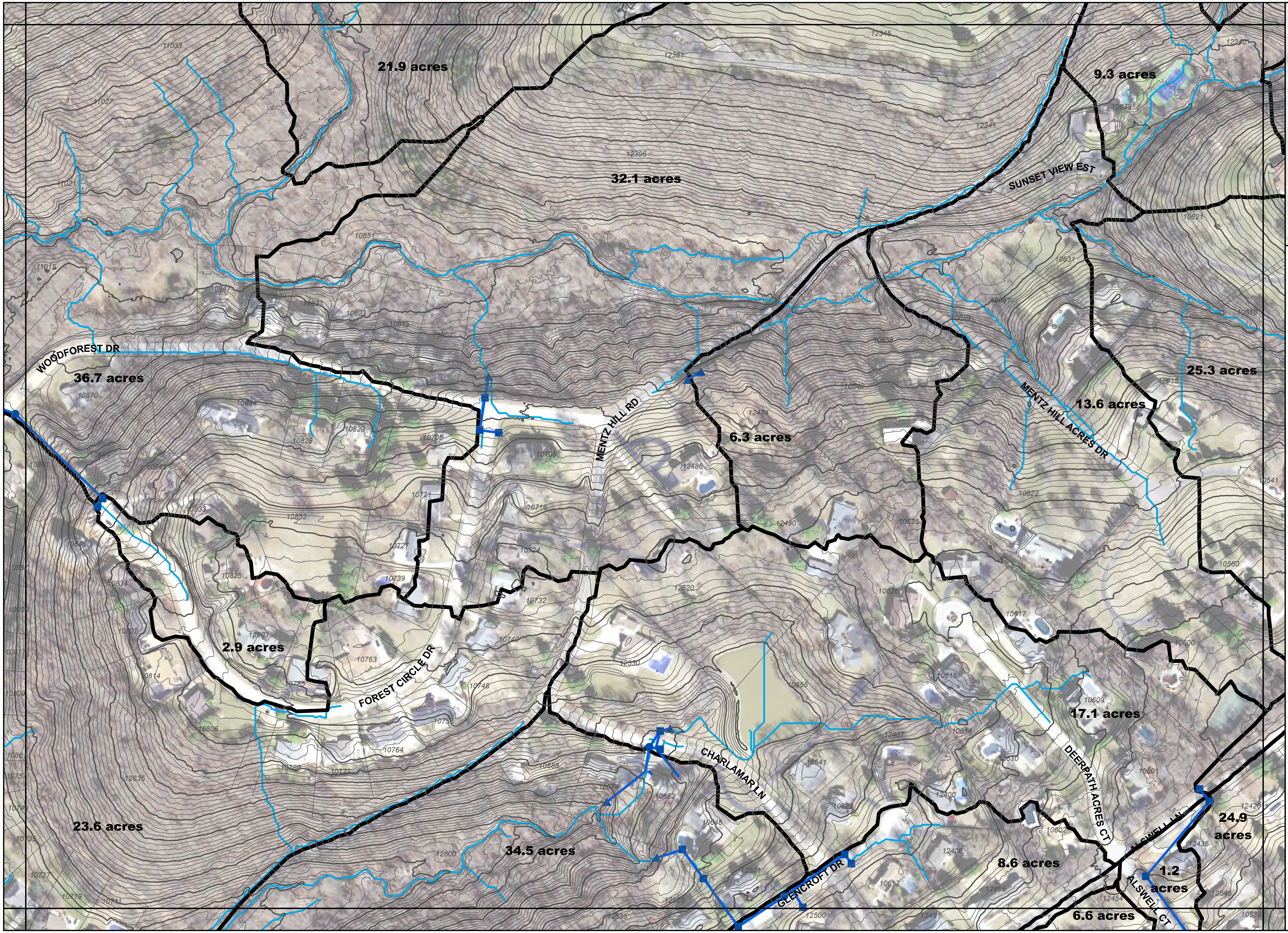

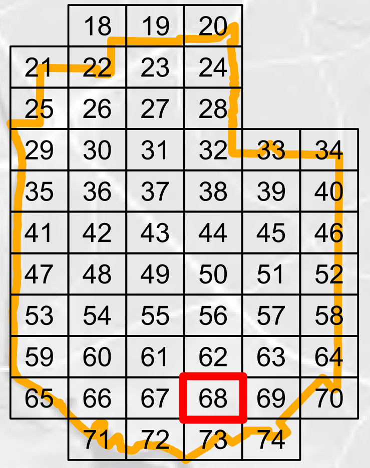

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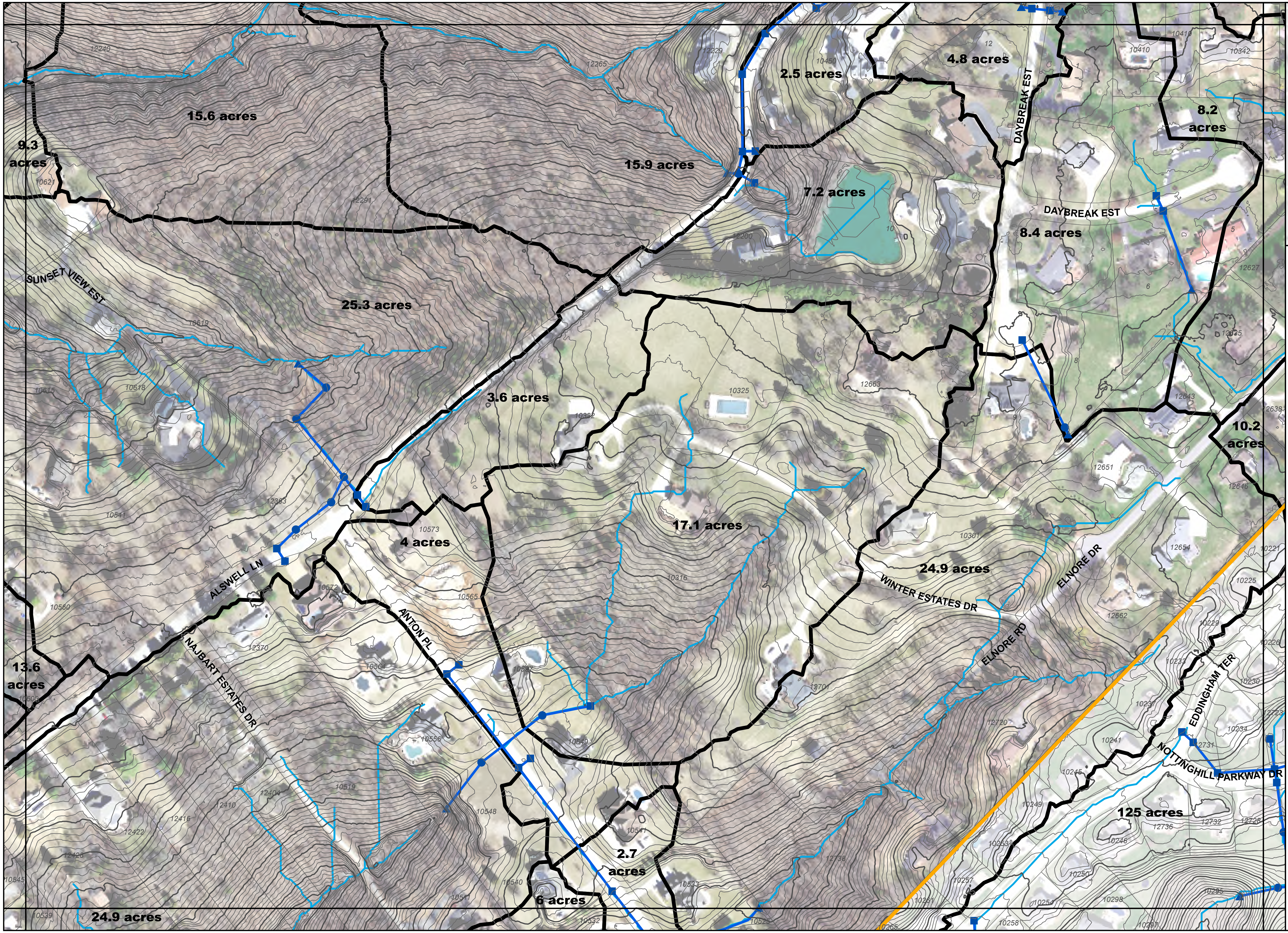

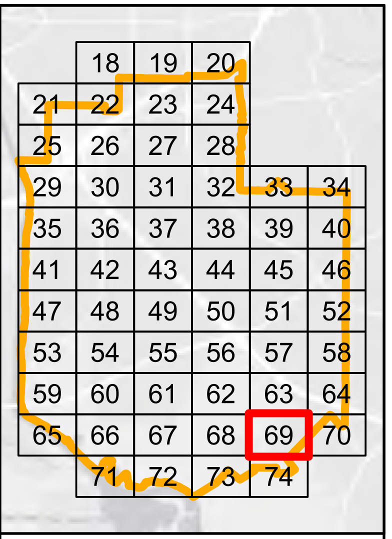

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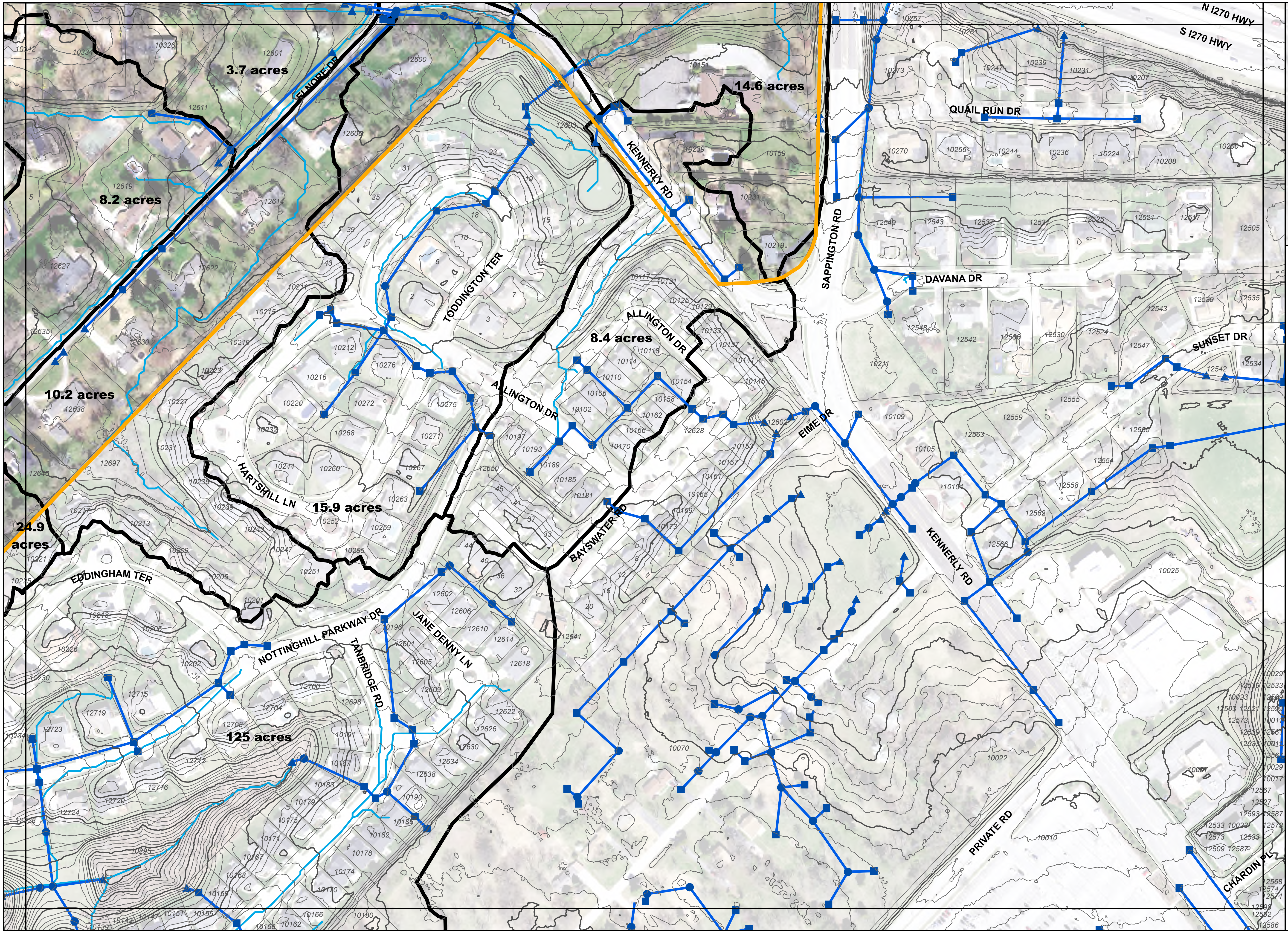

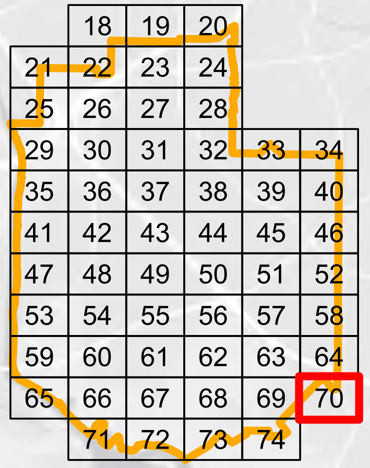

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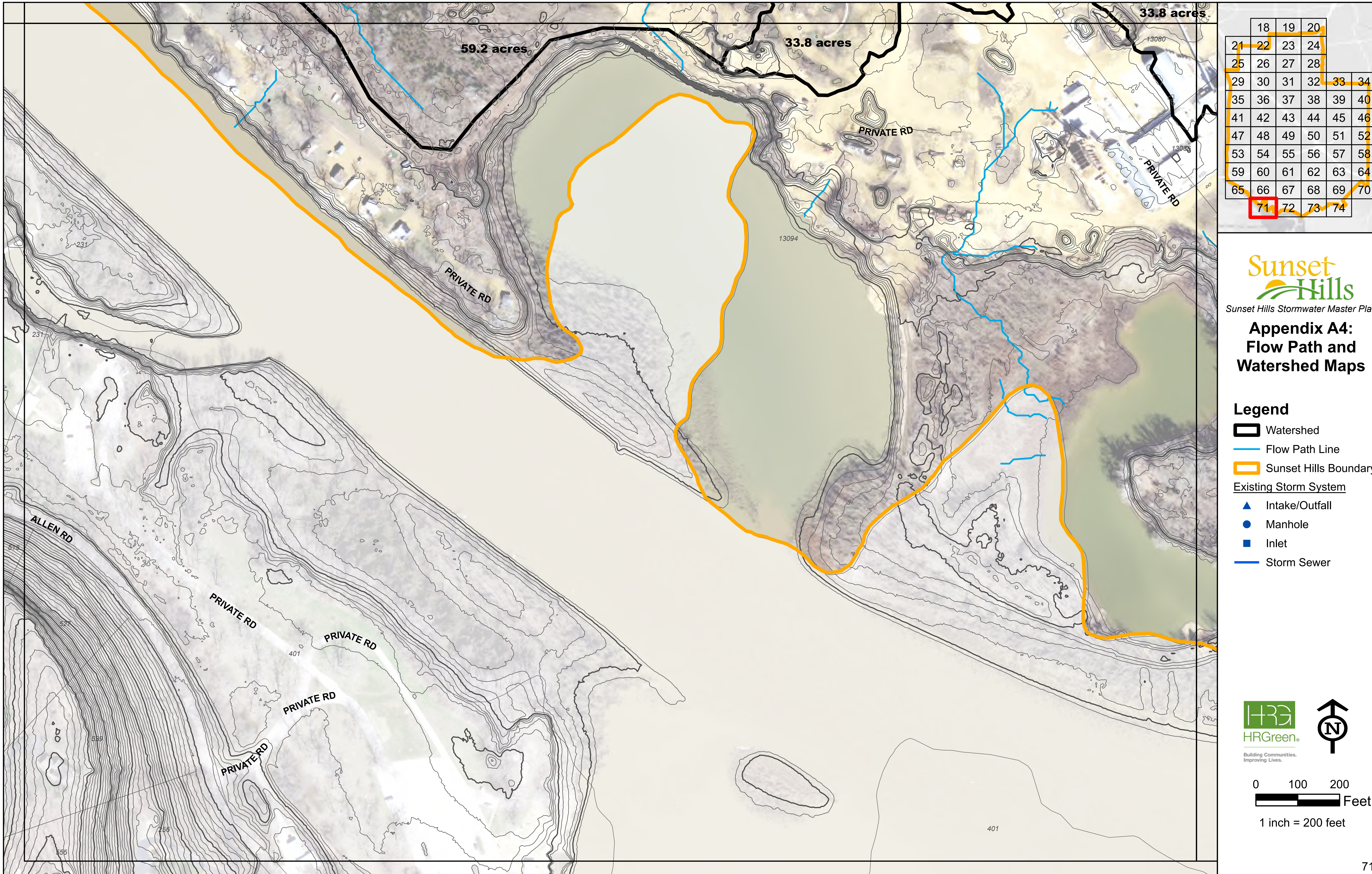

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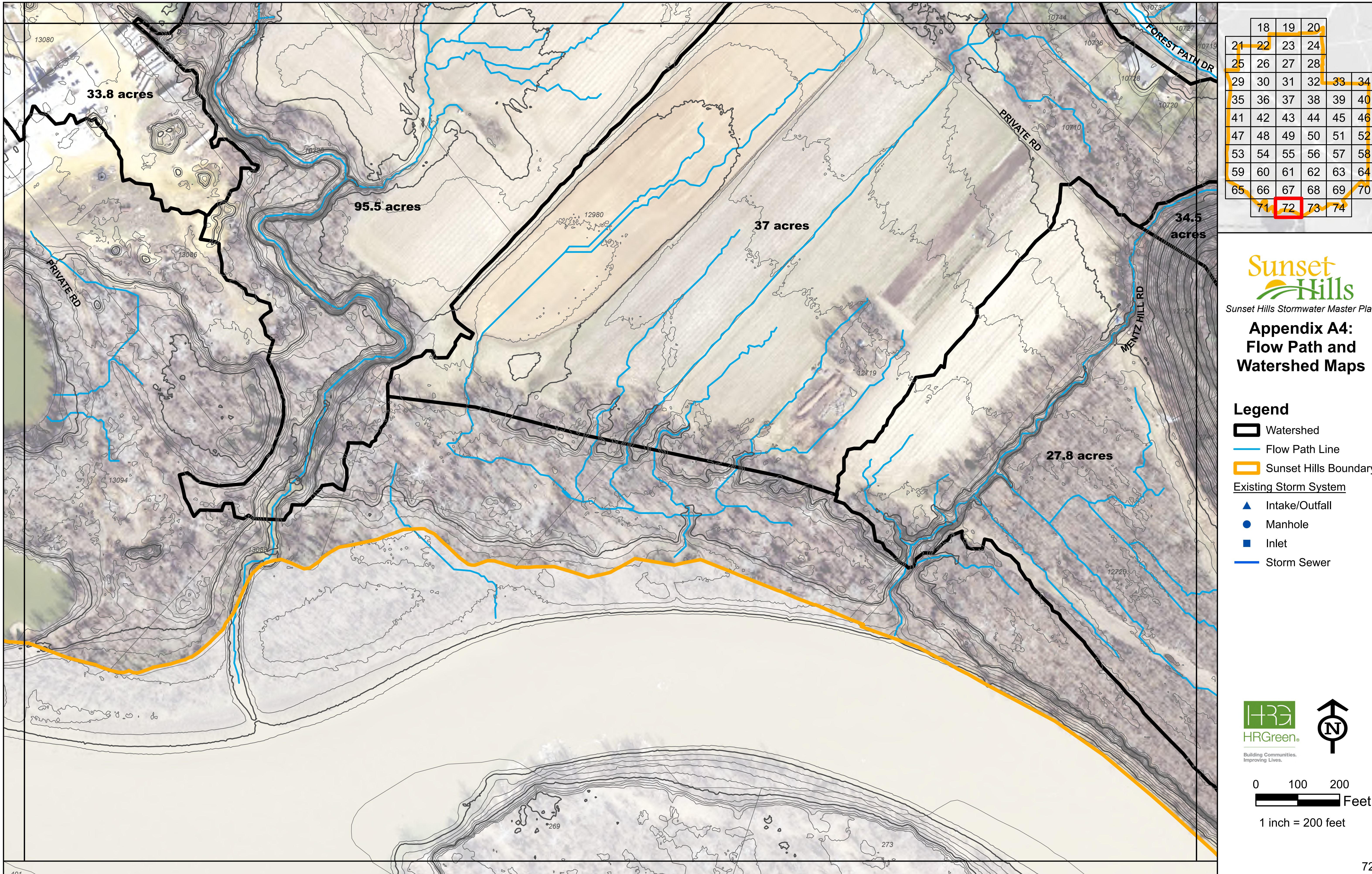

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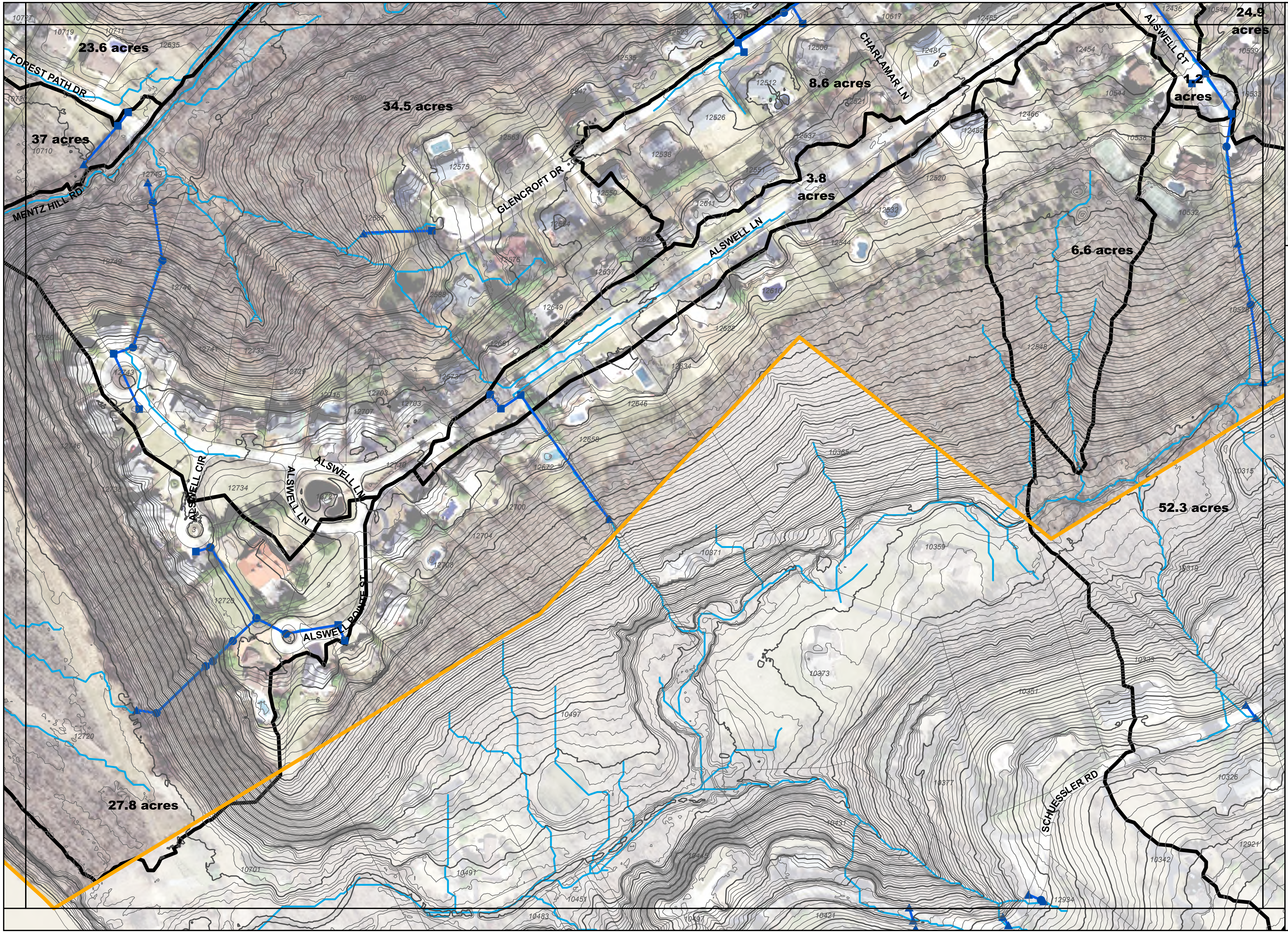

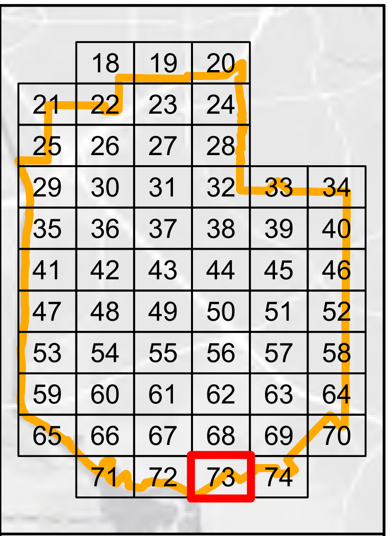

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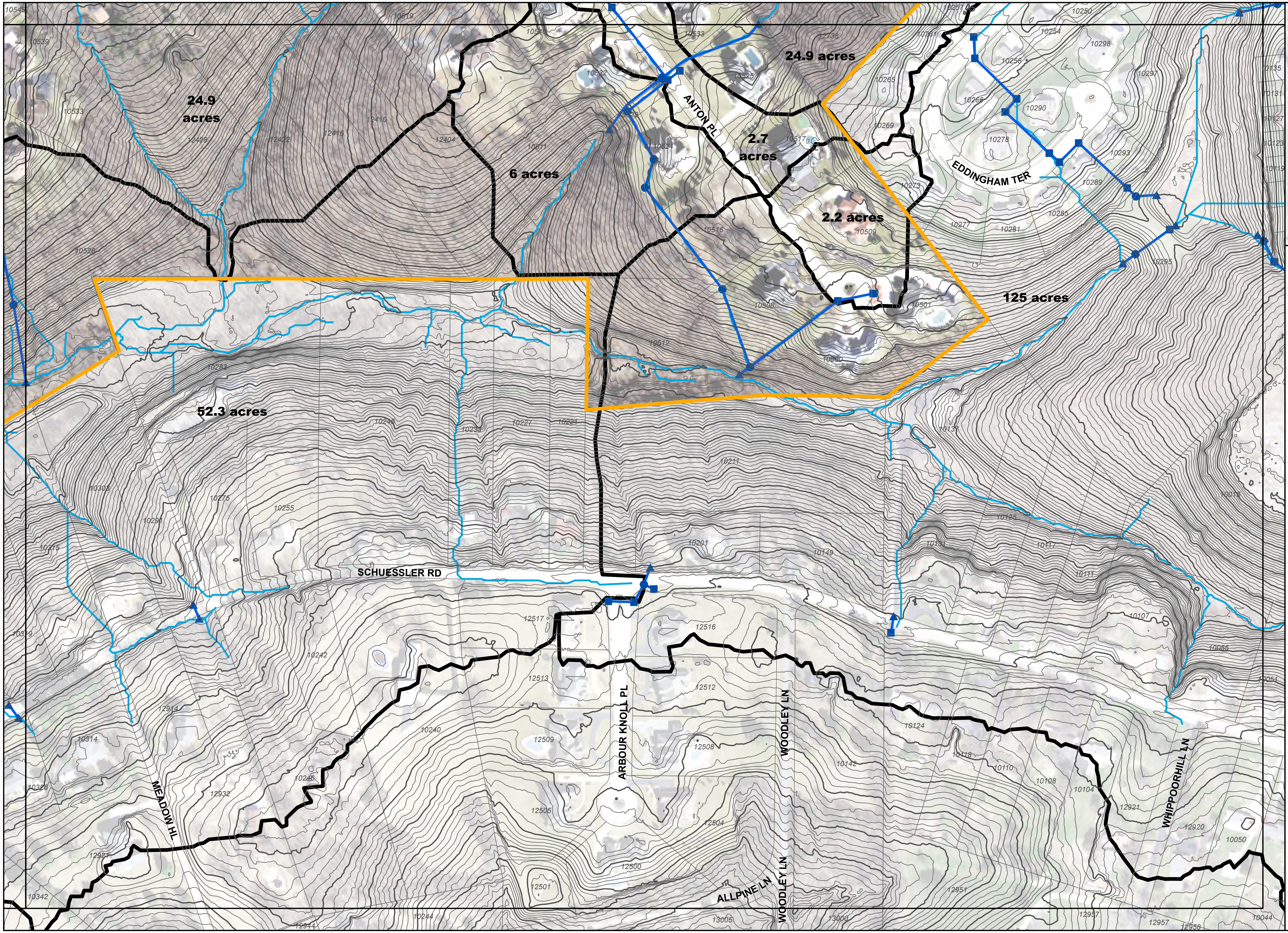

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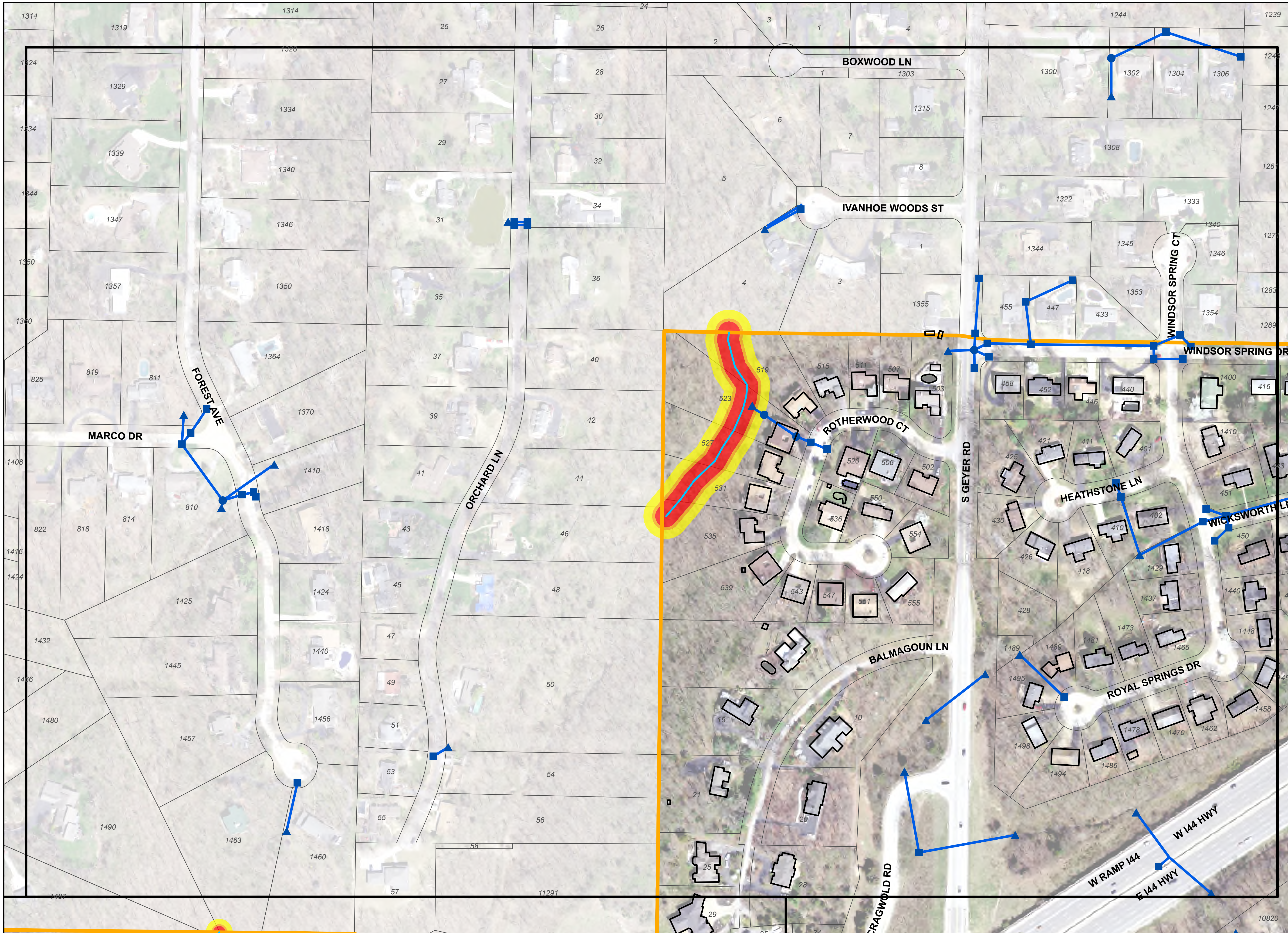
Appendix A5: Stream Buffer Maps



Sunset Hills

Sunset Hills Stormwater Master Plan

Appendix A5: Stream Buffer Map

Legend

Sunset Hills Boundary

Structures Outside of Stream Buffer

Stream Buffers

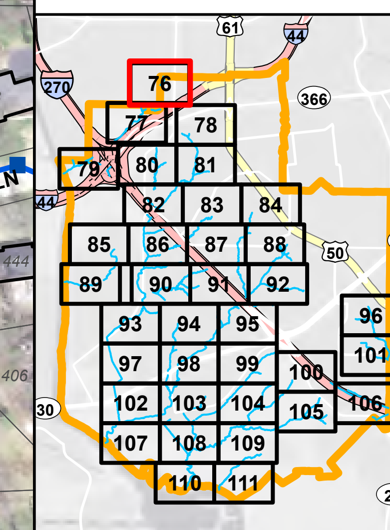
- Chronic
- Frequent
- Infrequent

Structures in Stream Buffer

- Chronic
- Frequent
- Infrequent

Existing Storm System

- Intake/Outfall
- Manhole
- Inlet
- Storm Sewer
- Stream Centerline



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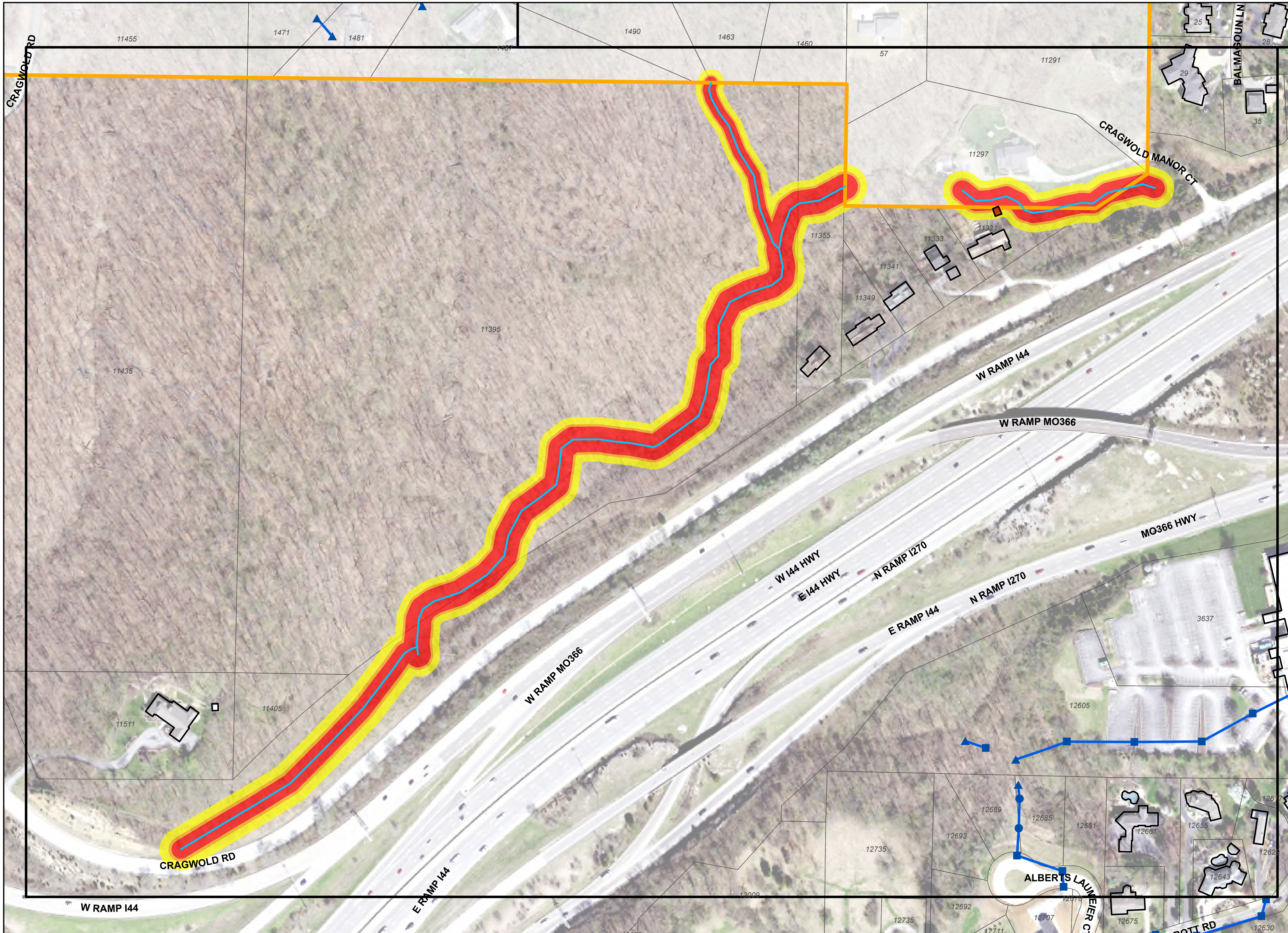

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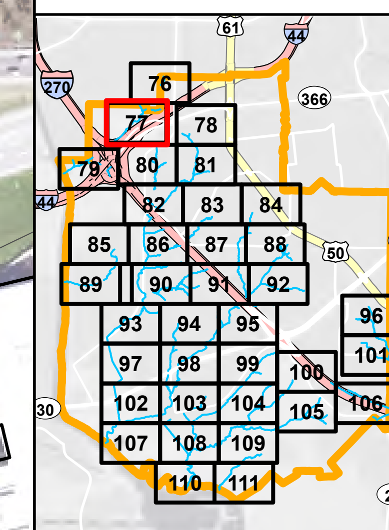

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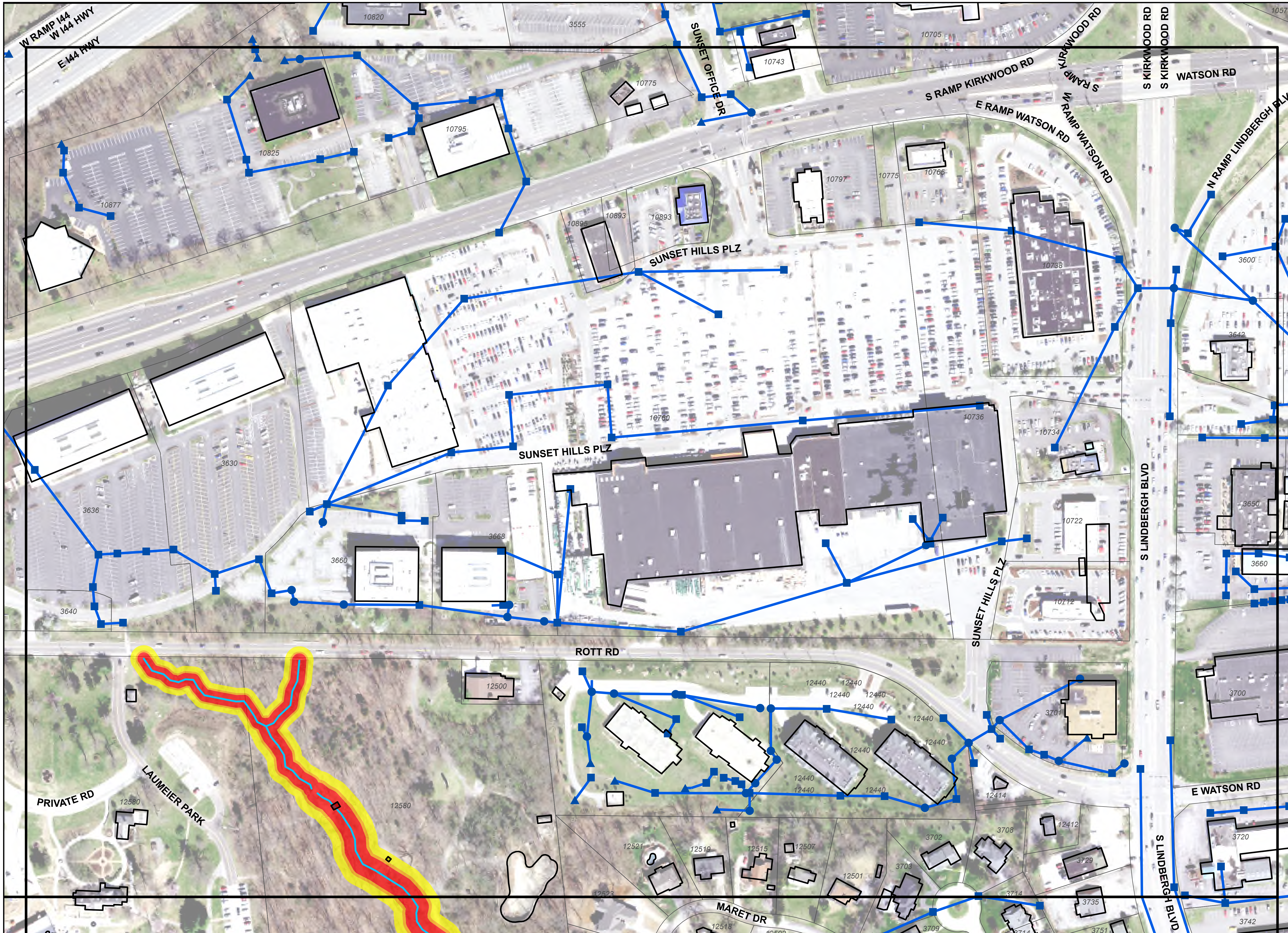

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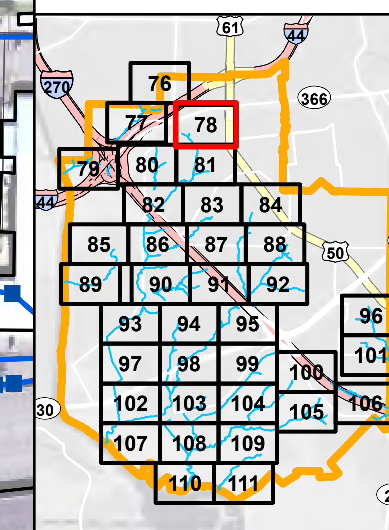

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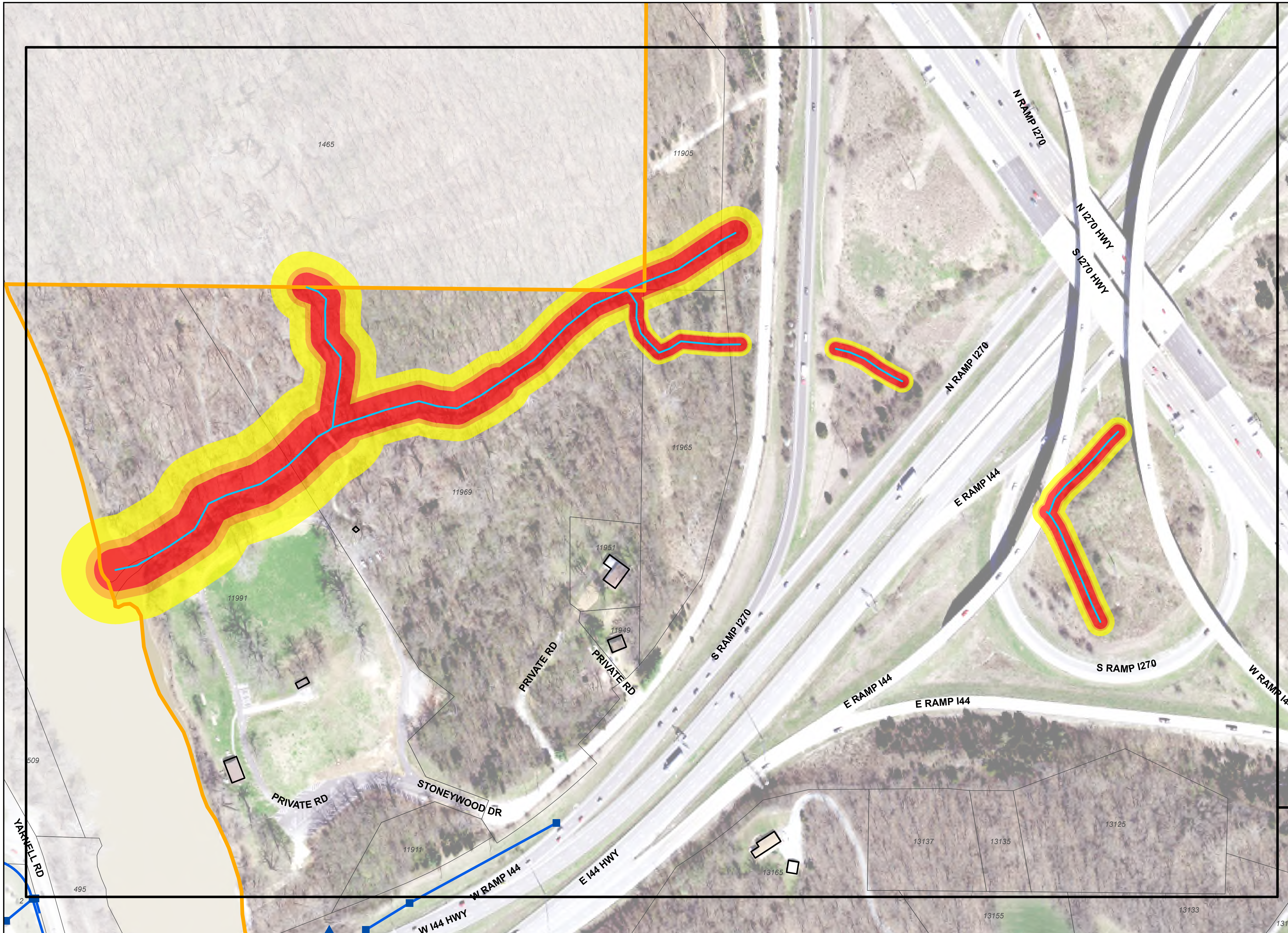

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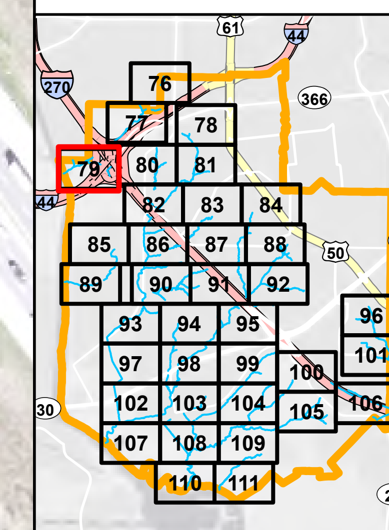

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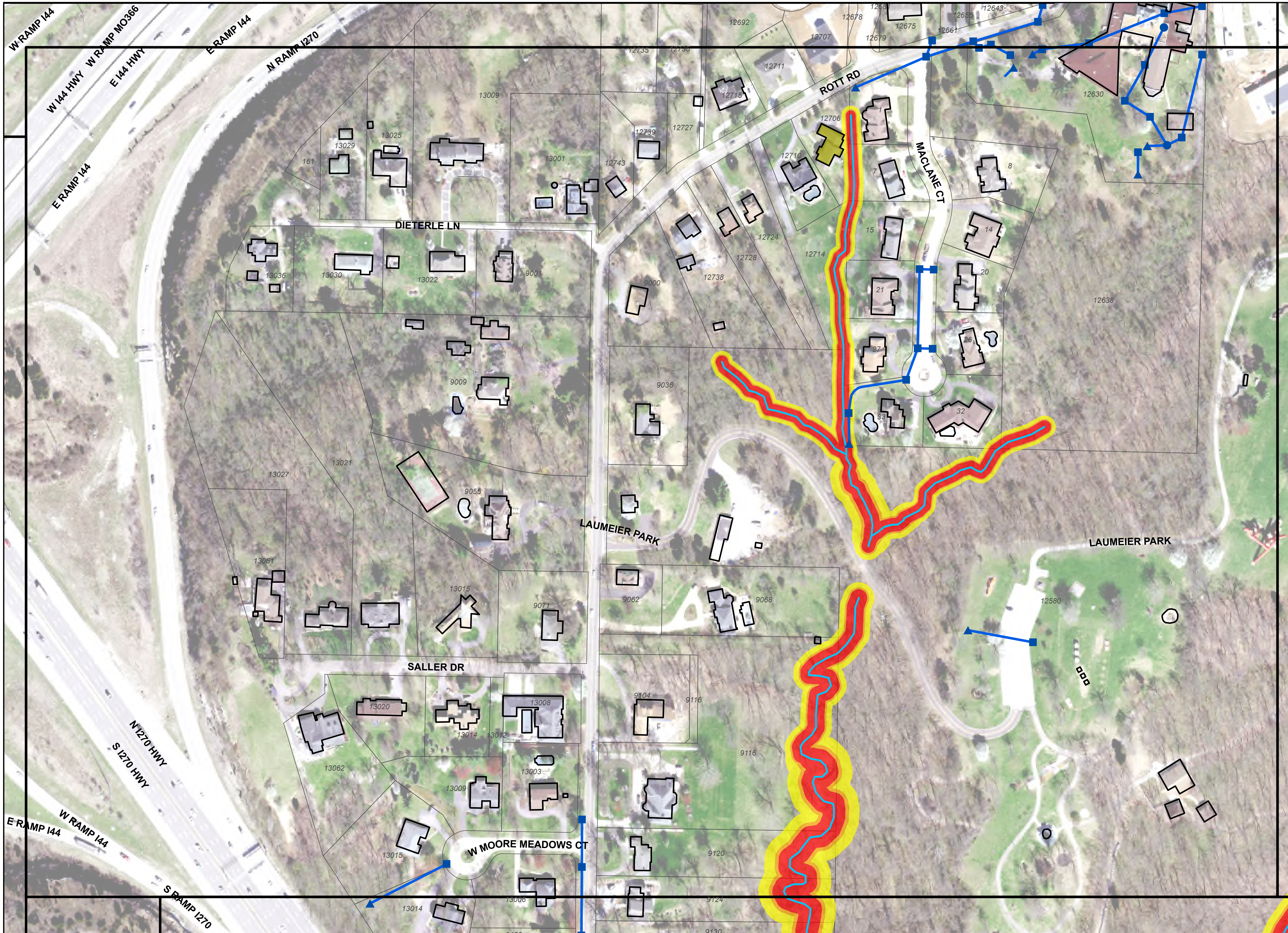

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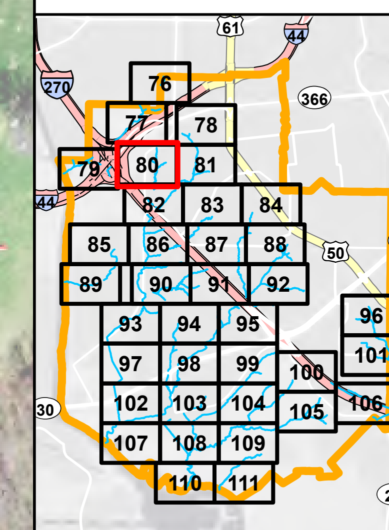

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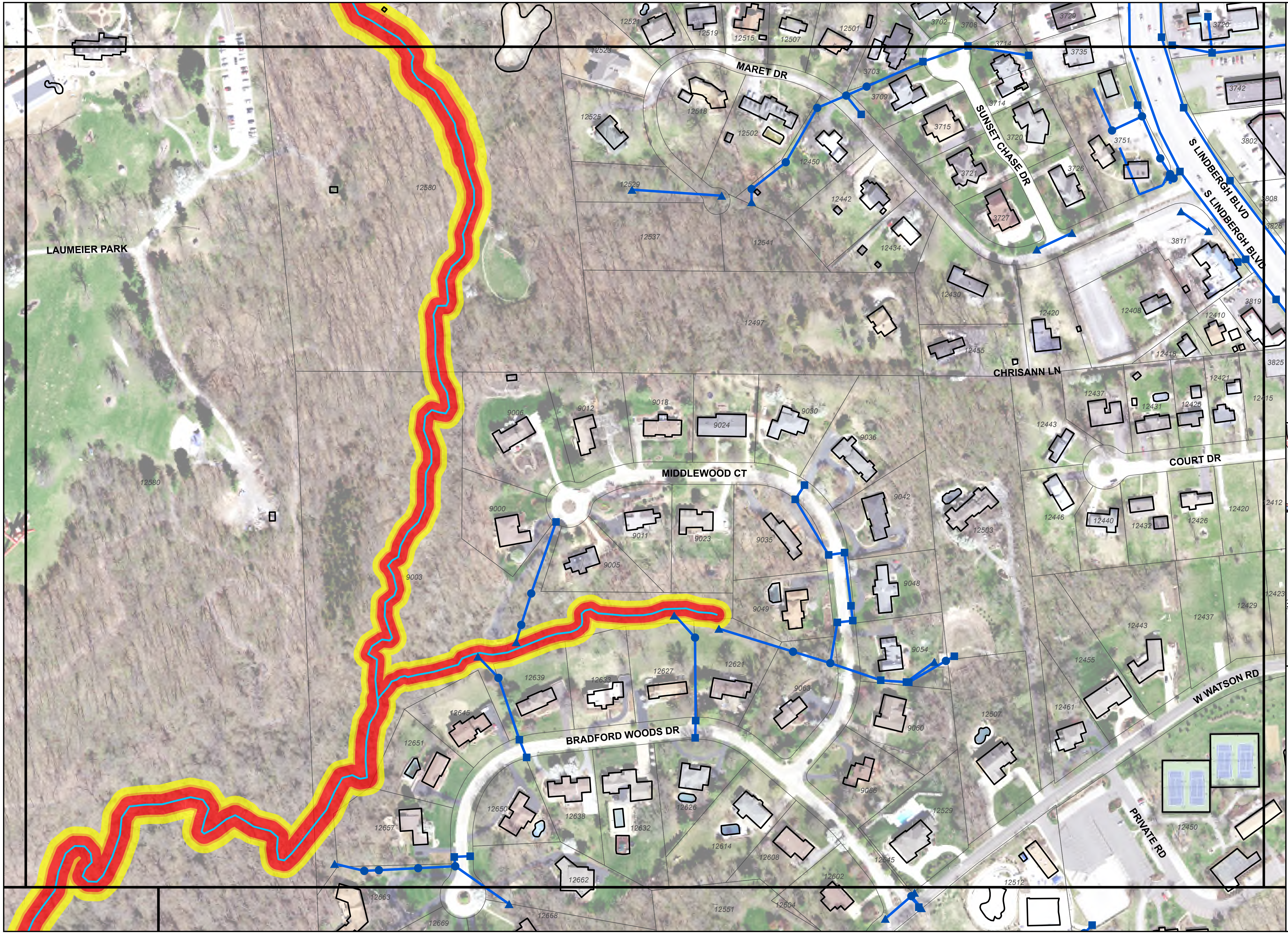

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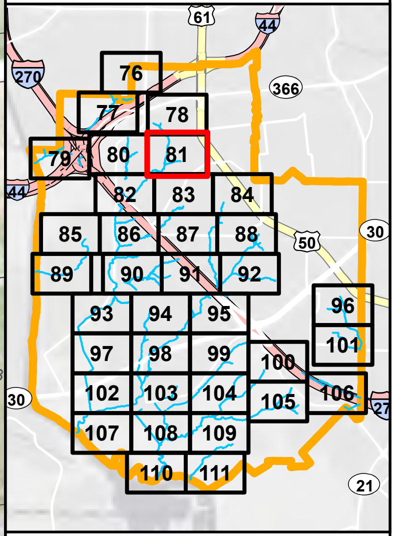

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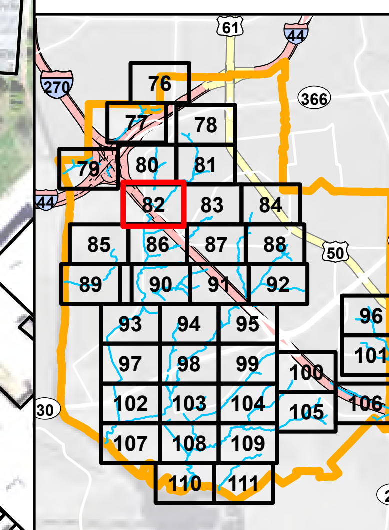

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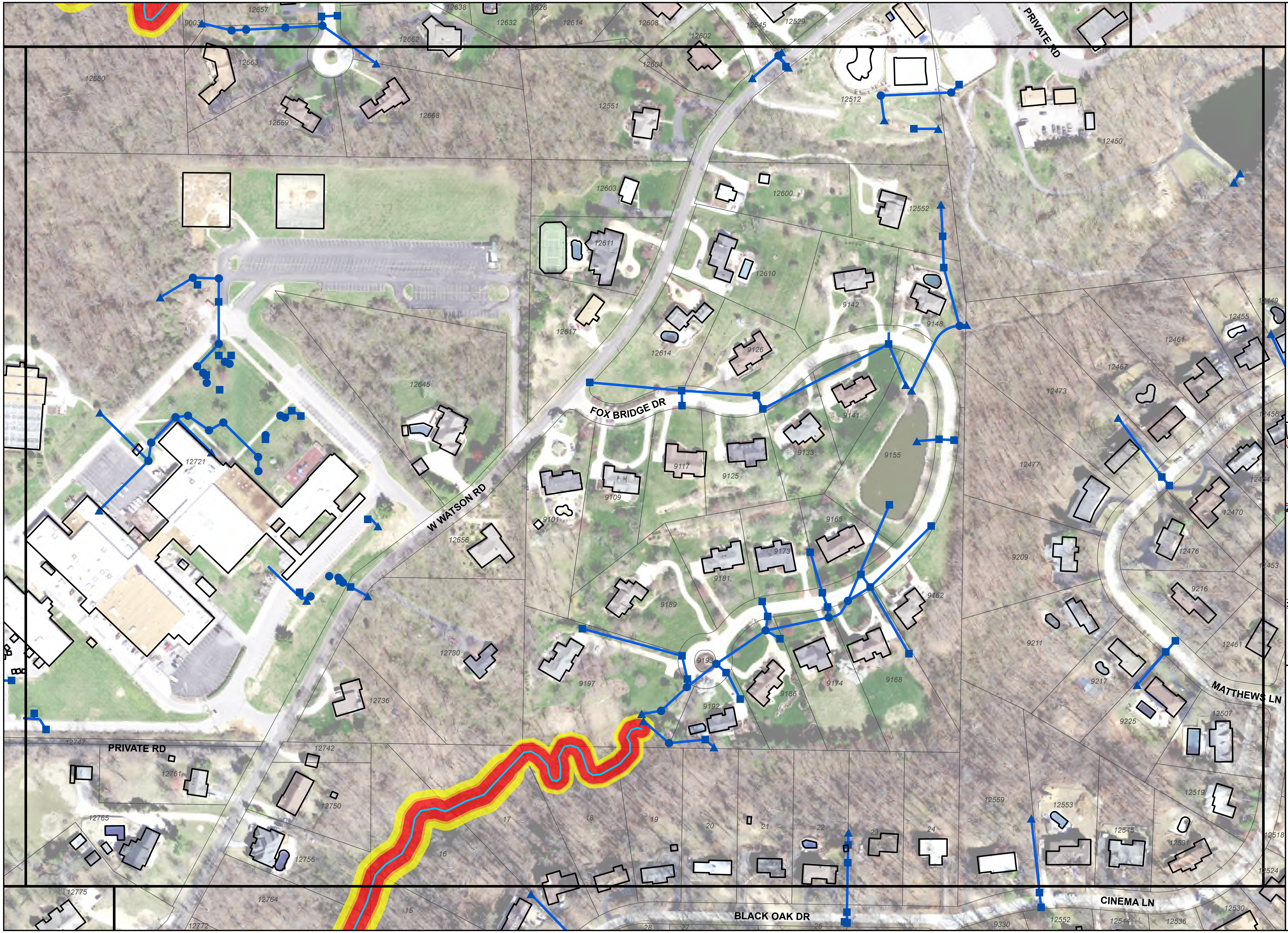

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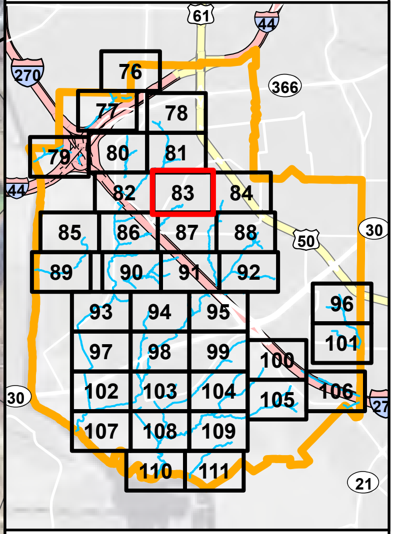
Stream Buffers
- Chronic
- Frequent
- Infrequent

Structures in Stream Buffer
- Chronic
- Frequent
- Infrequent

Existing Storm System
- Intake/Outfall
- Manhole
- Inlet
- Storm Sewer
- Stream Centerline



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N

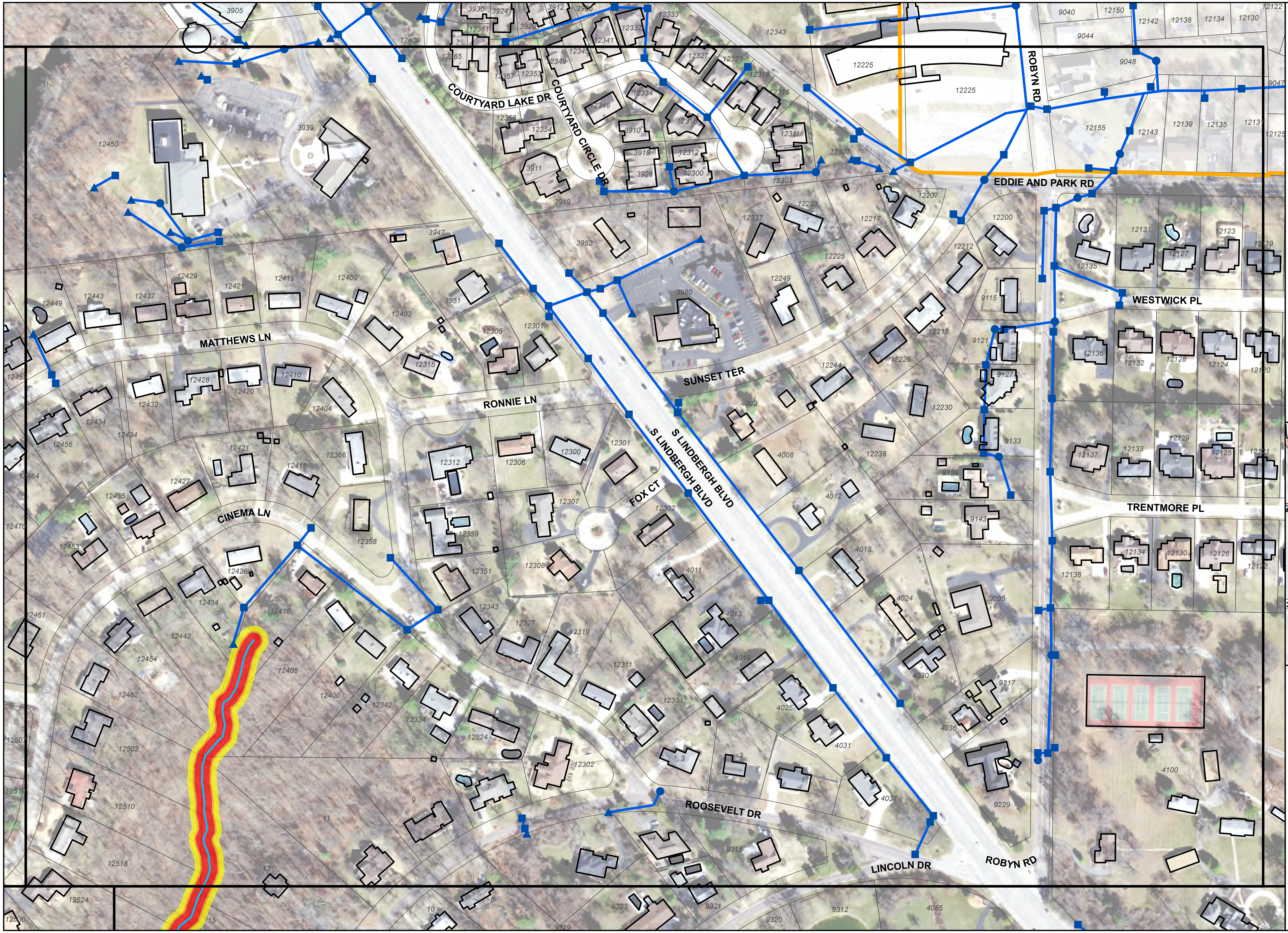
0 100 200
Feet

1 inch = 200 feet

Sunset Hills

Sunset Hills Stormwater Master Plan

Appendix A5: Stream Buffer Map



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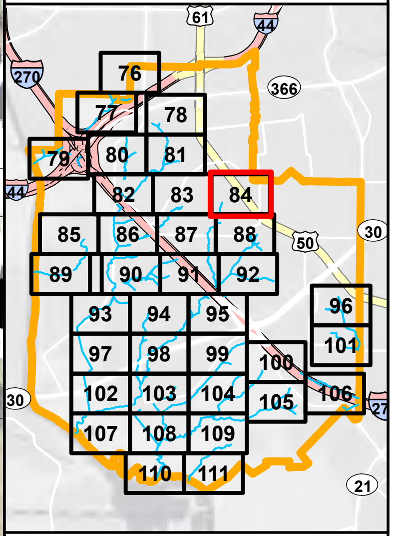

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Appendix A5: Stream Buffer Map

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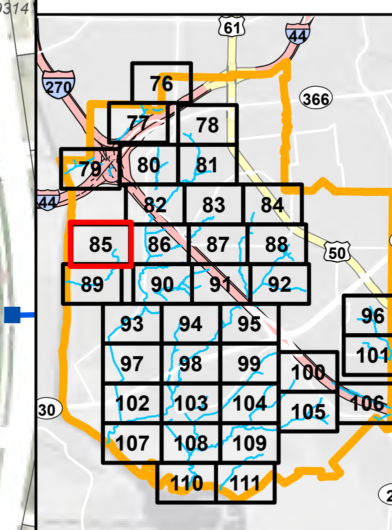

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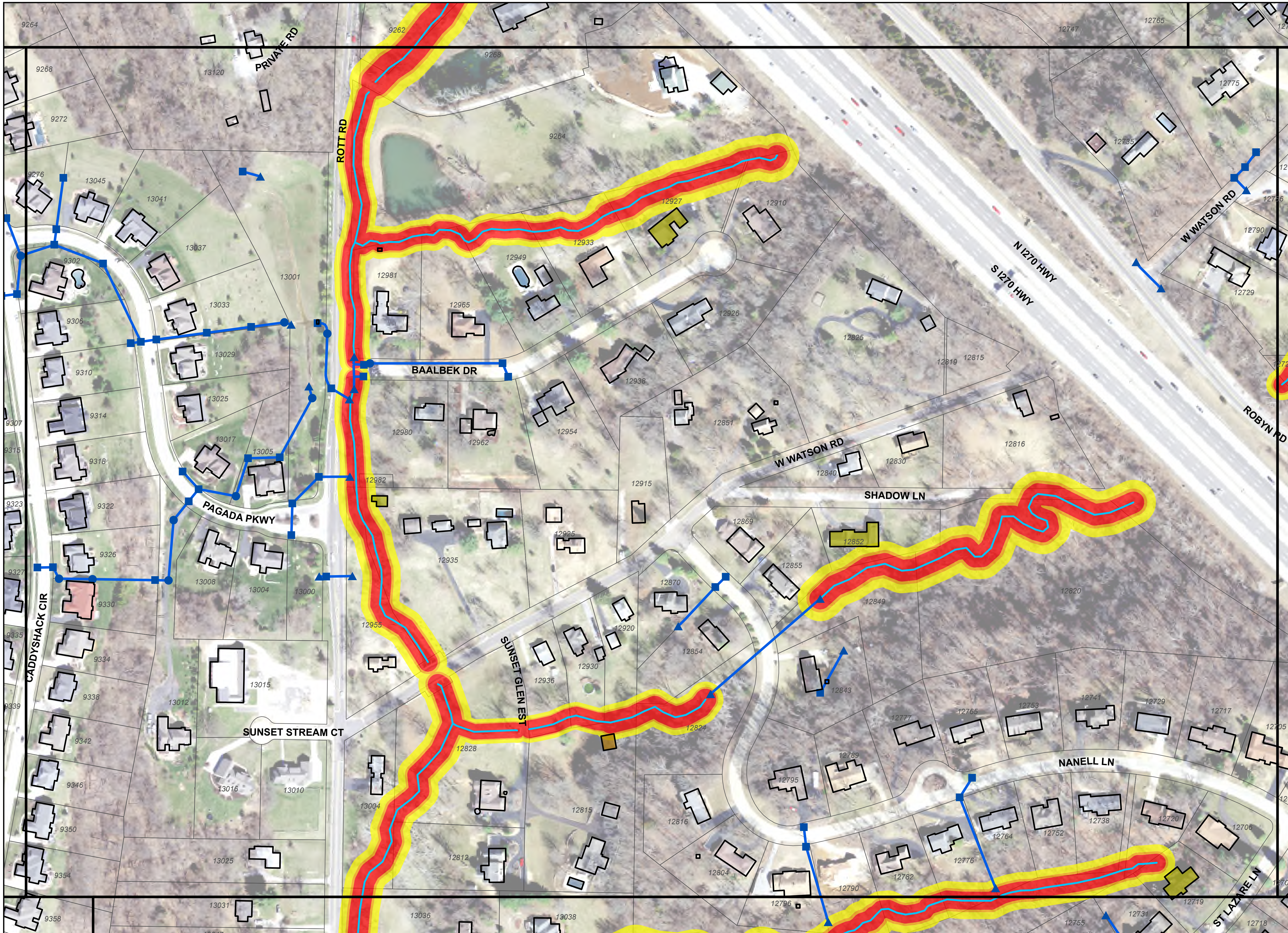

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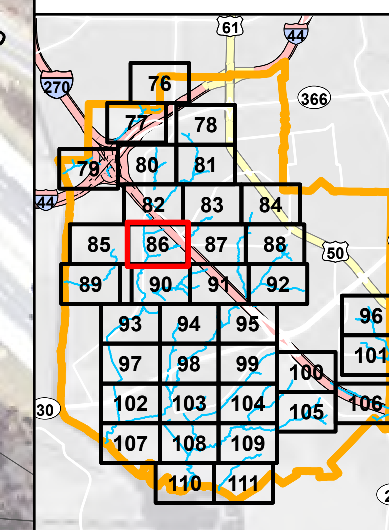

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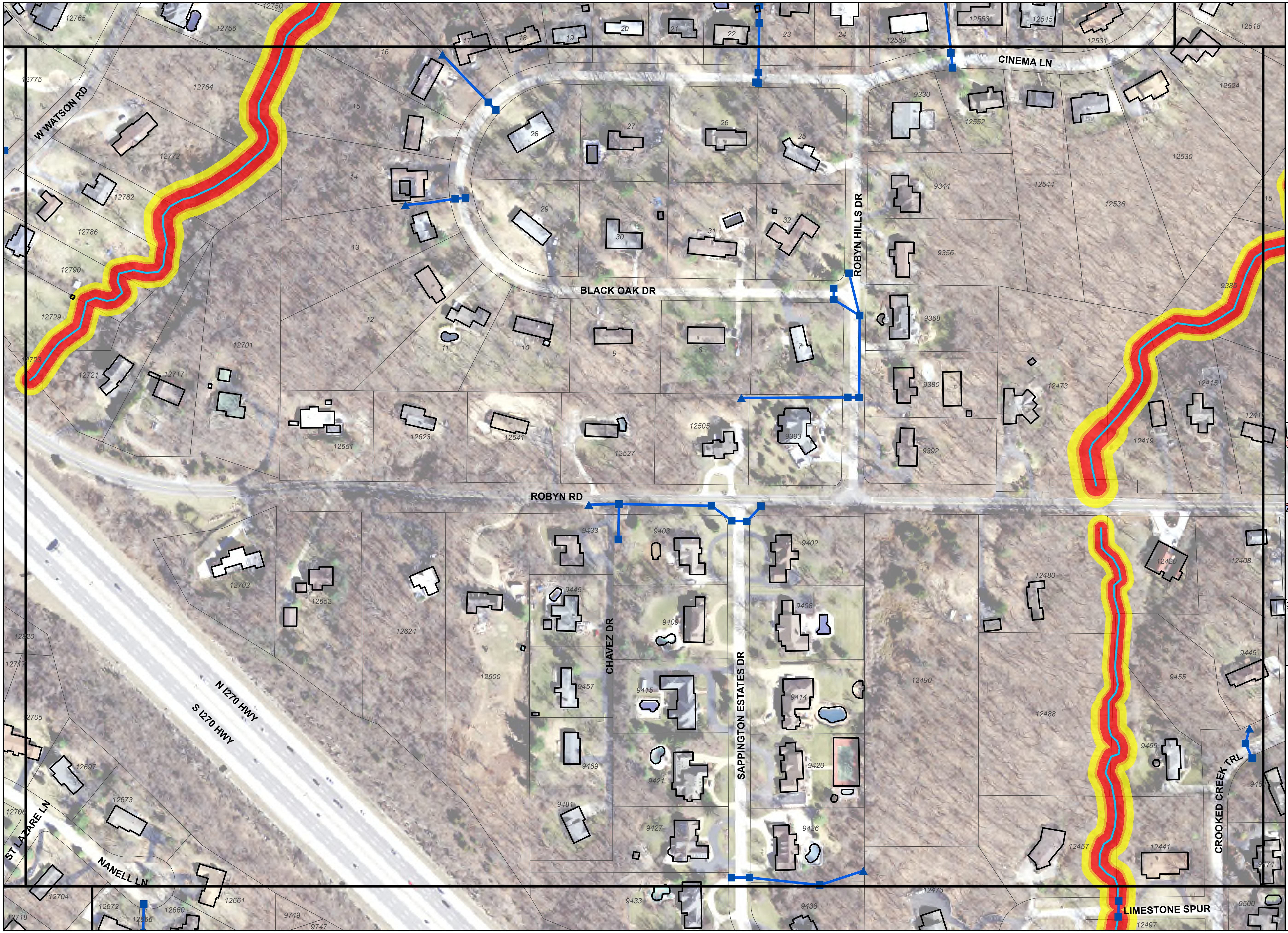

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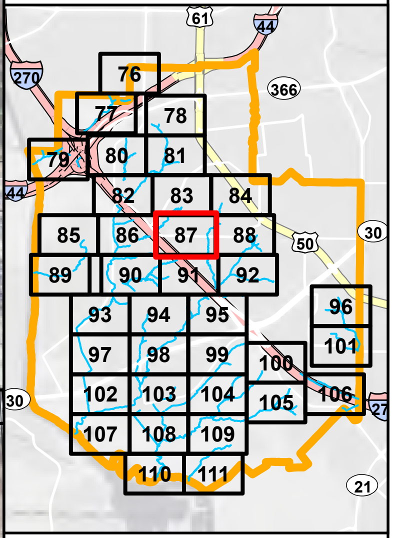

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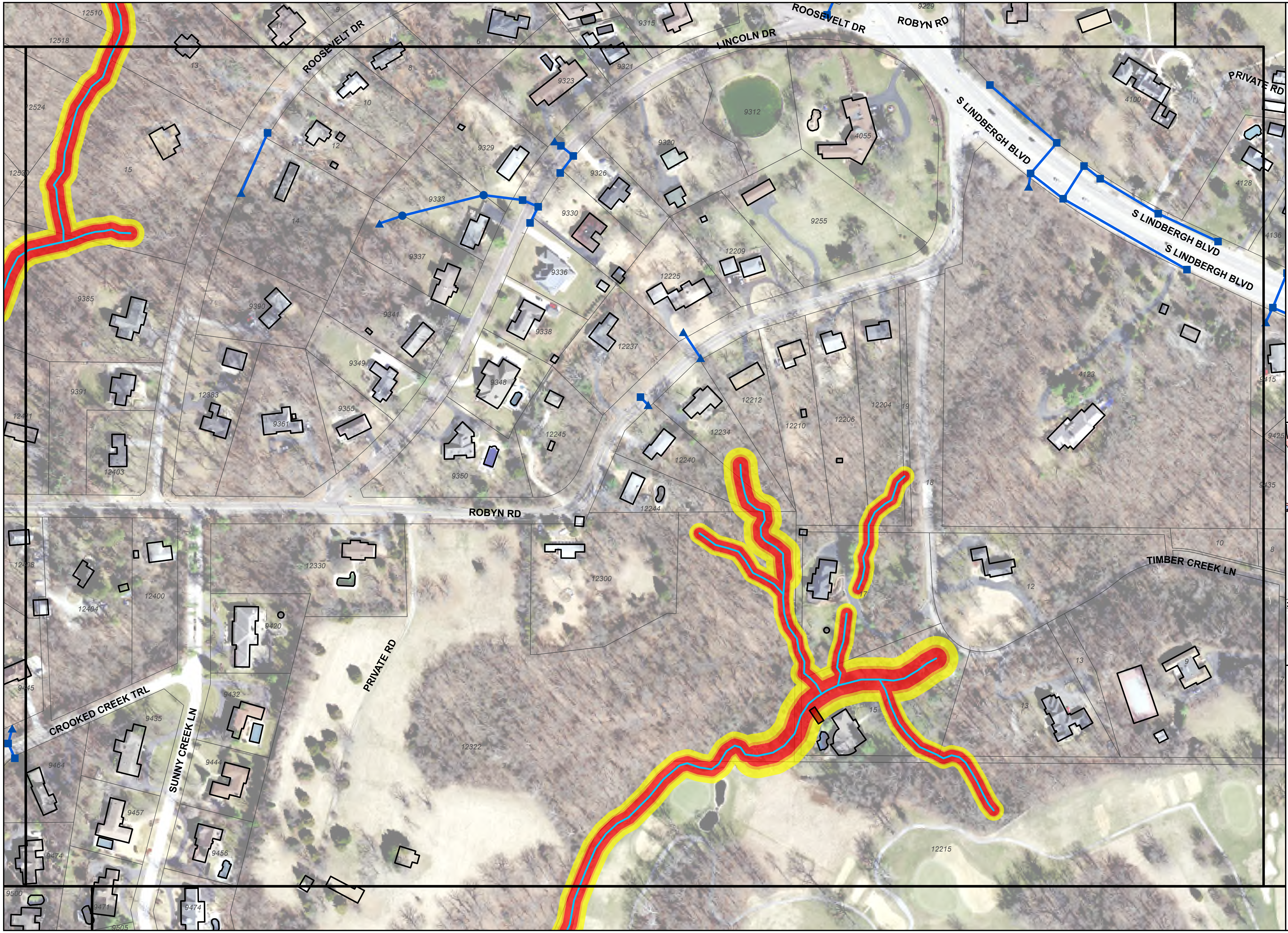

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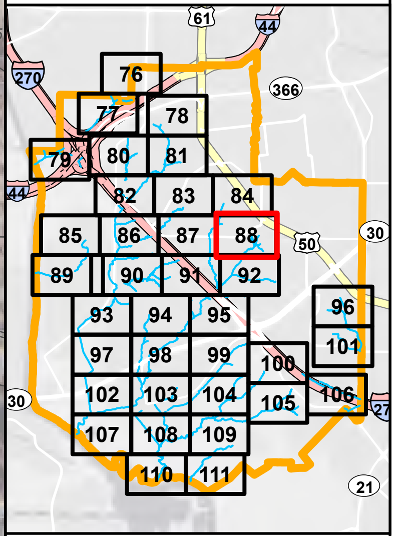

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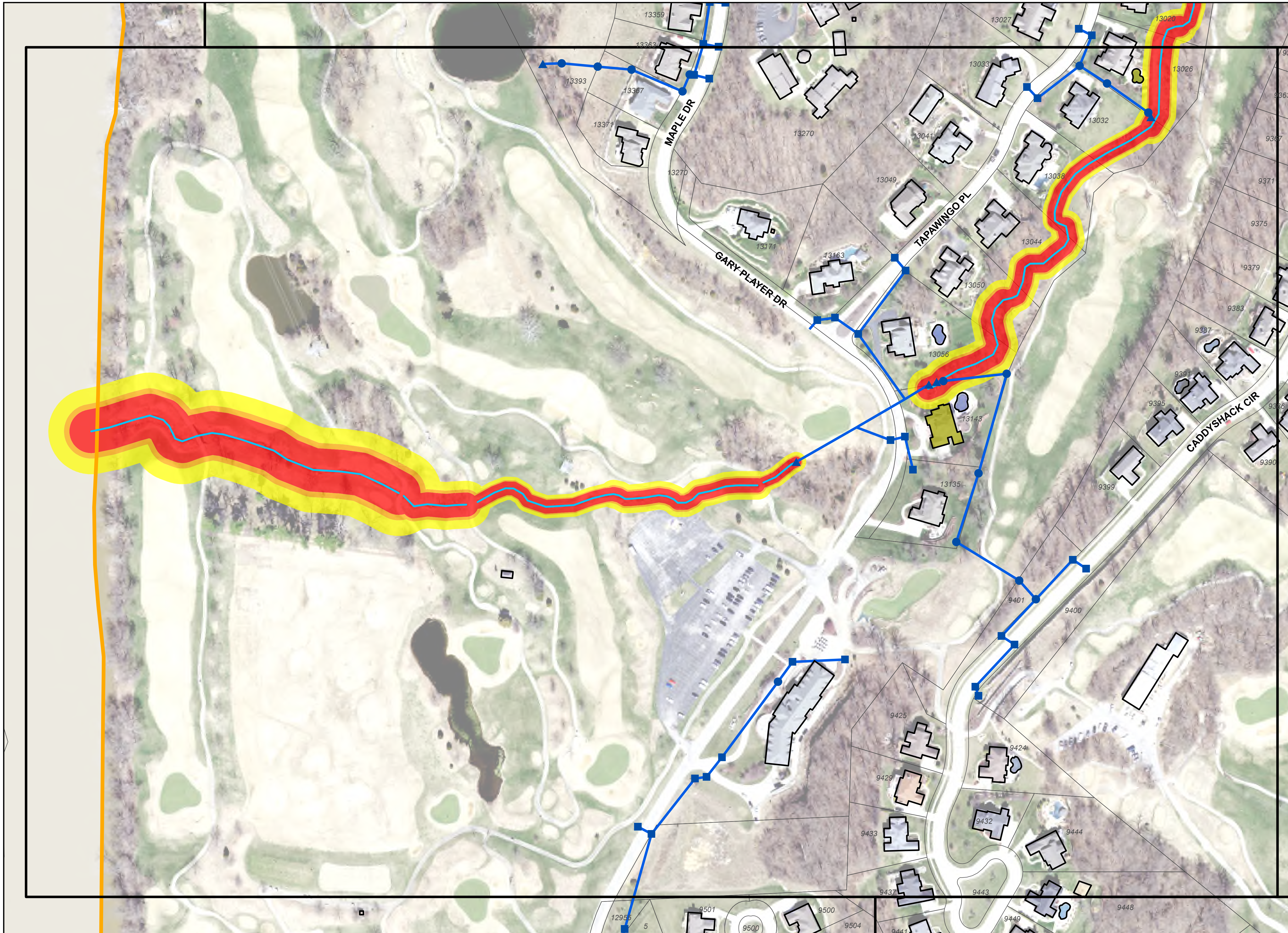

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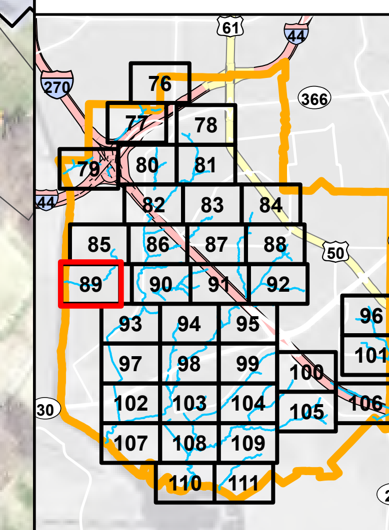

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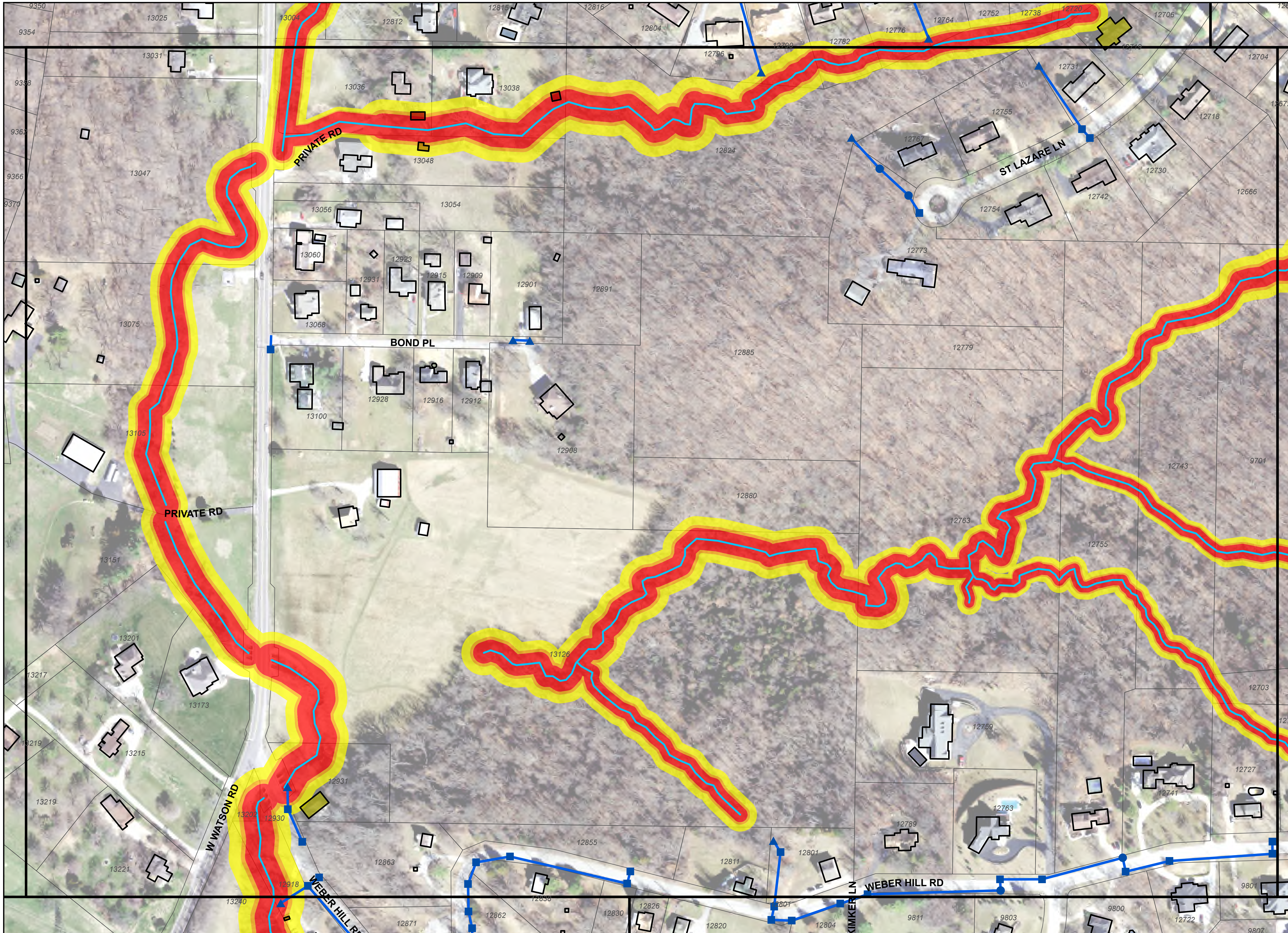

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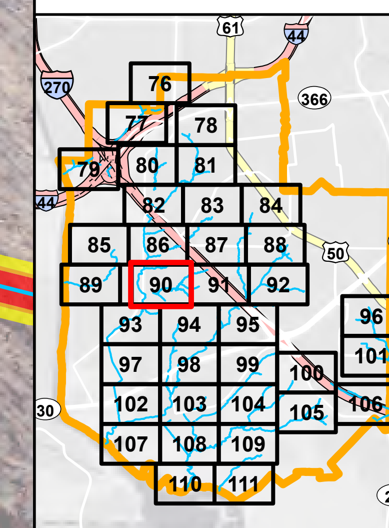

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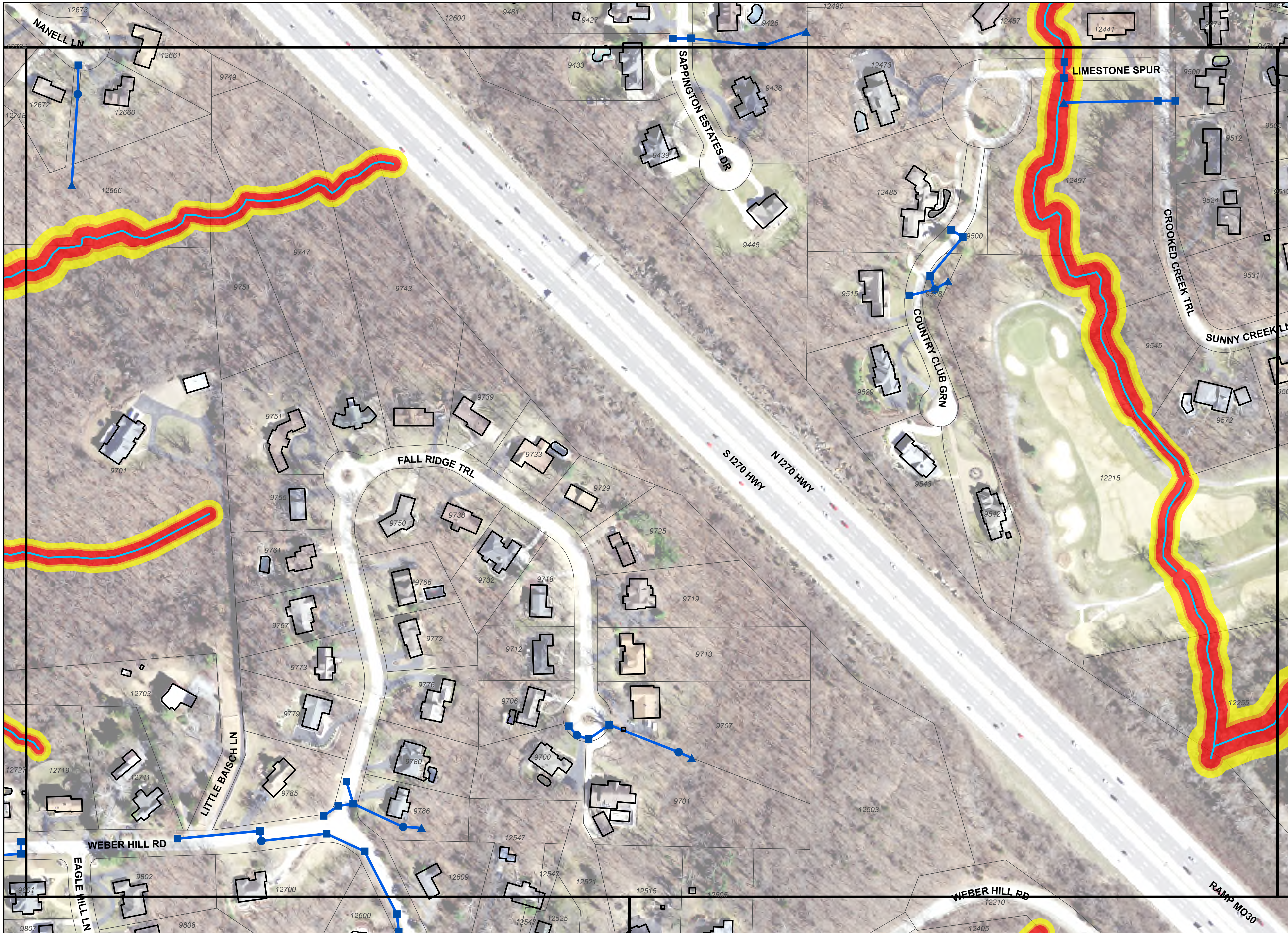

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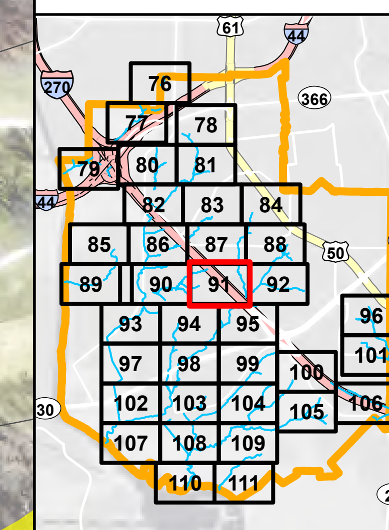

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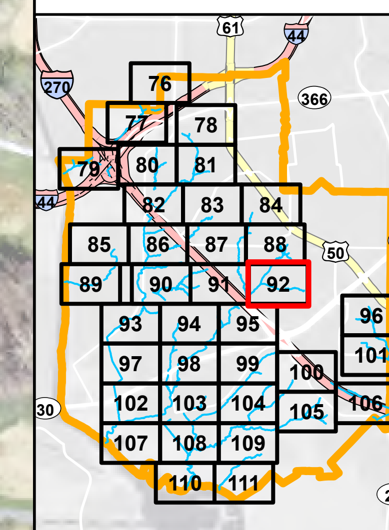

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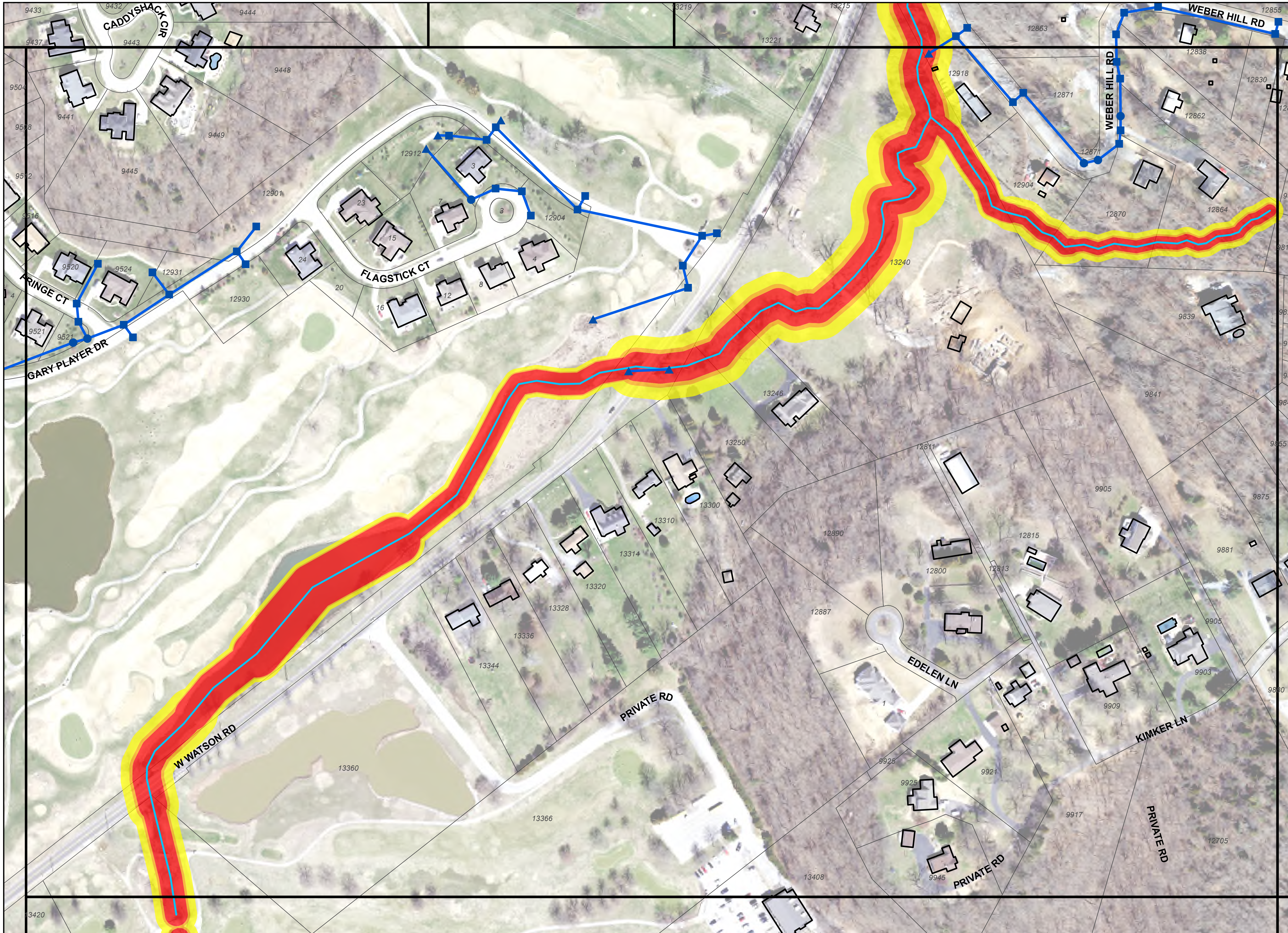

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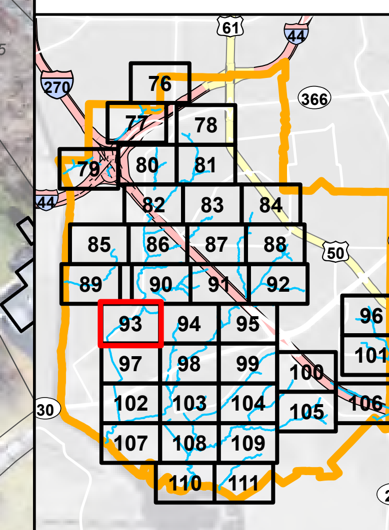

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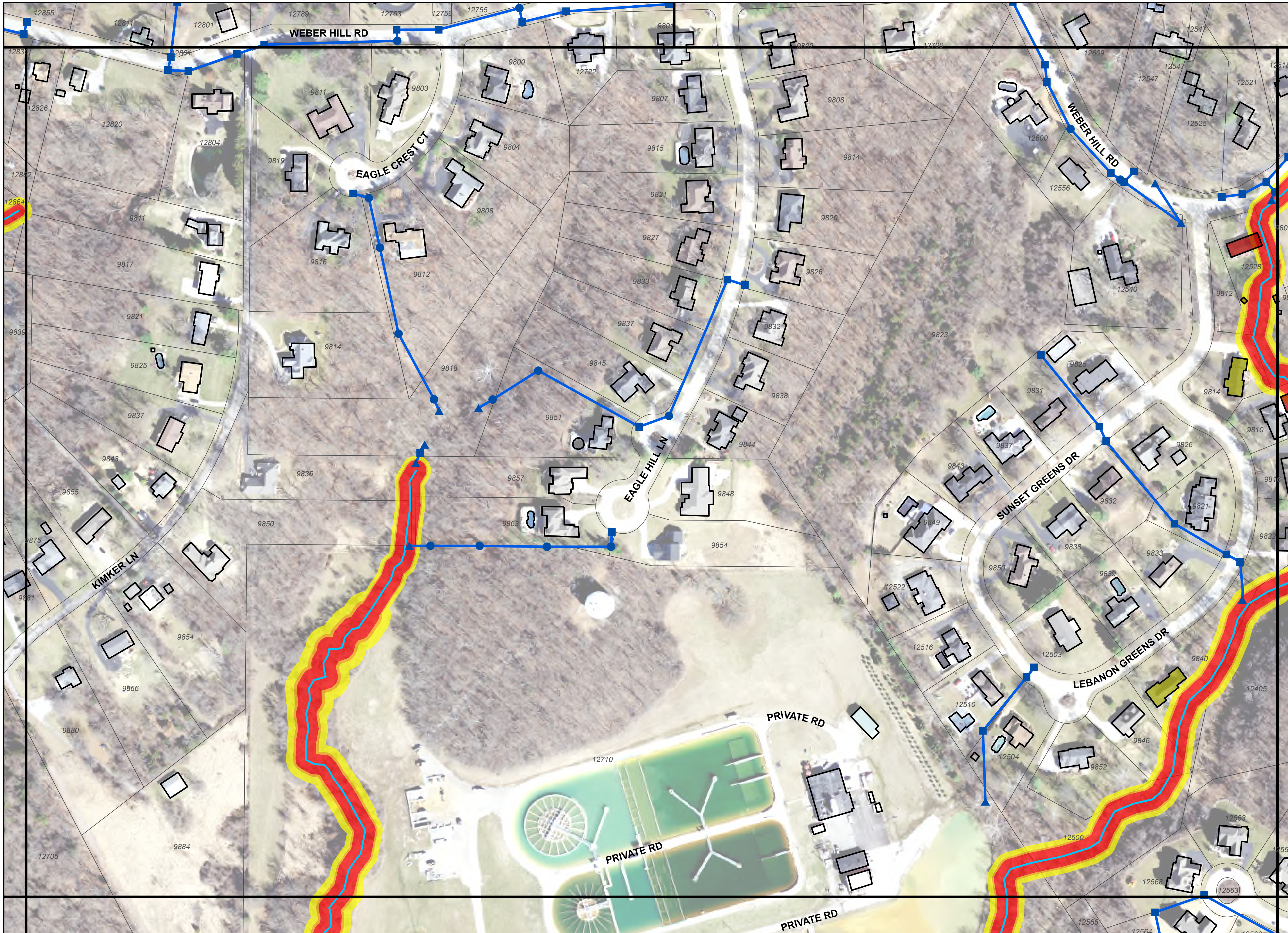

Sunset Hills

Sunset Hills Stormwater Master Plan

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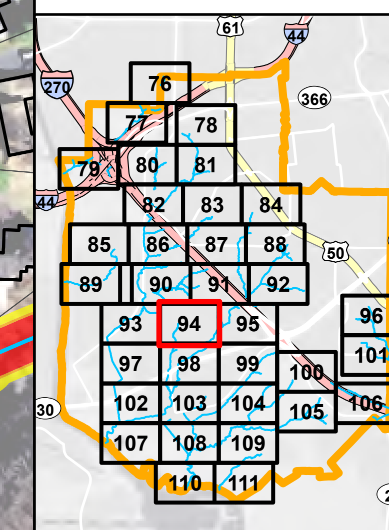

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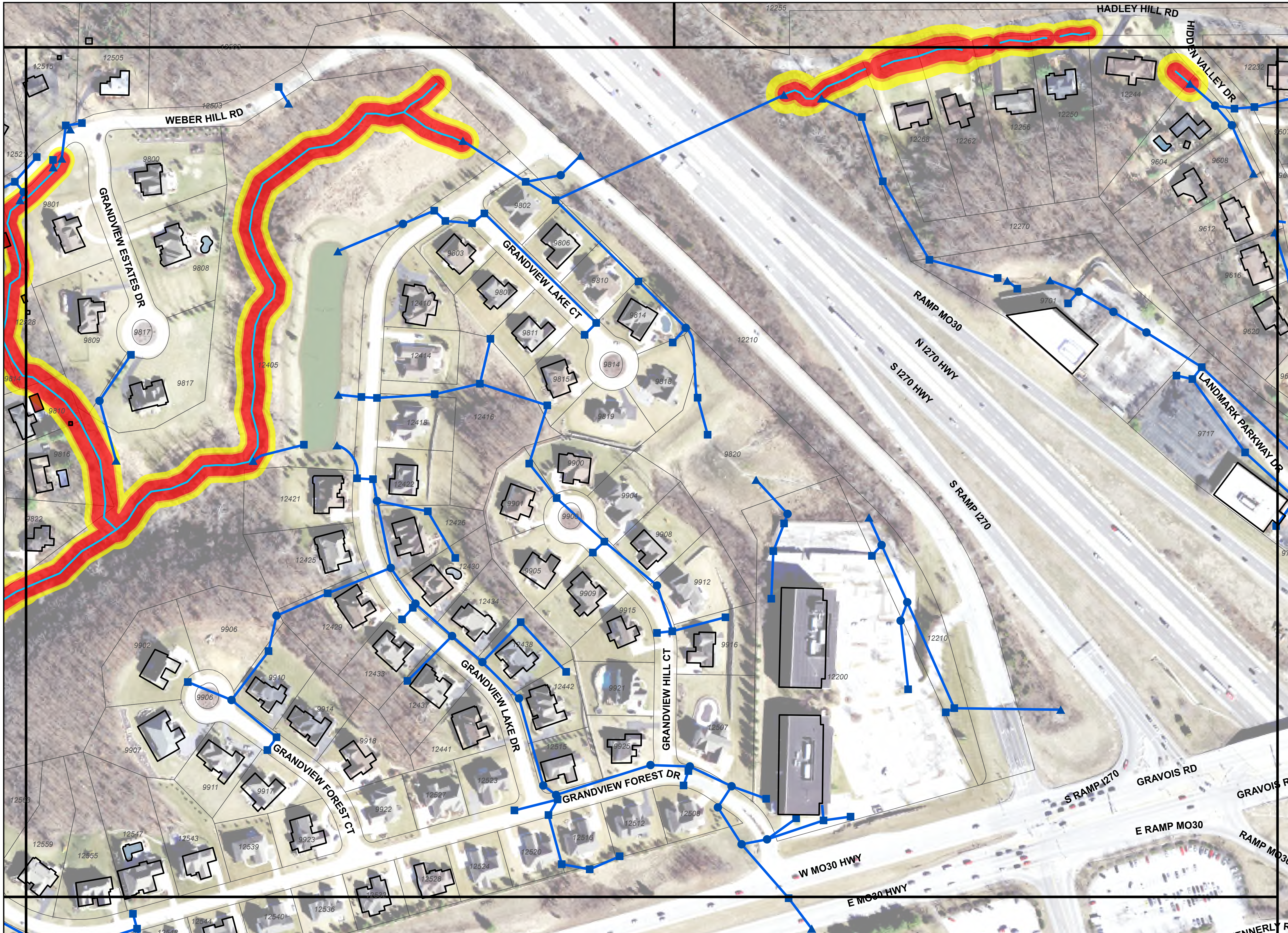

Sunset Hills Stormwater Master Plan

Appendix A5: Stream Buffer Map

Legend

- Sunset Hills Boundary
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Stream Buffers
- Chronic
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Structures in Stream Buffer
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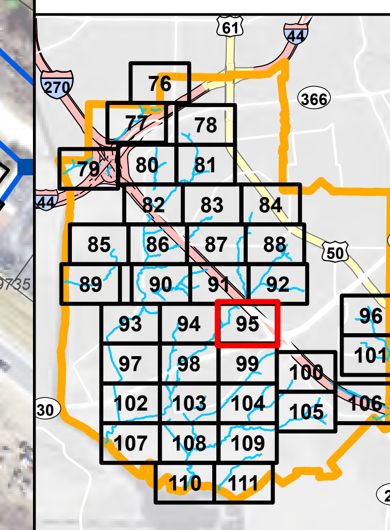

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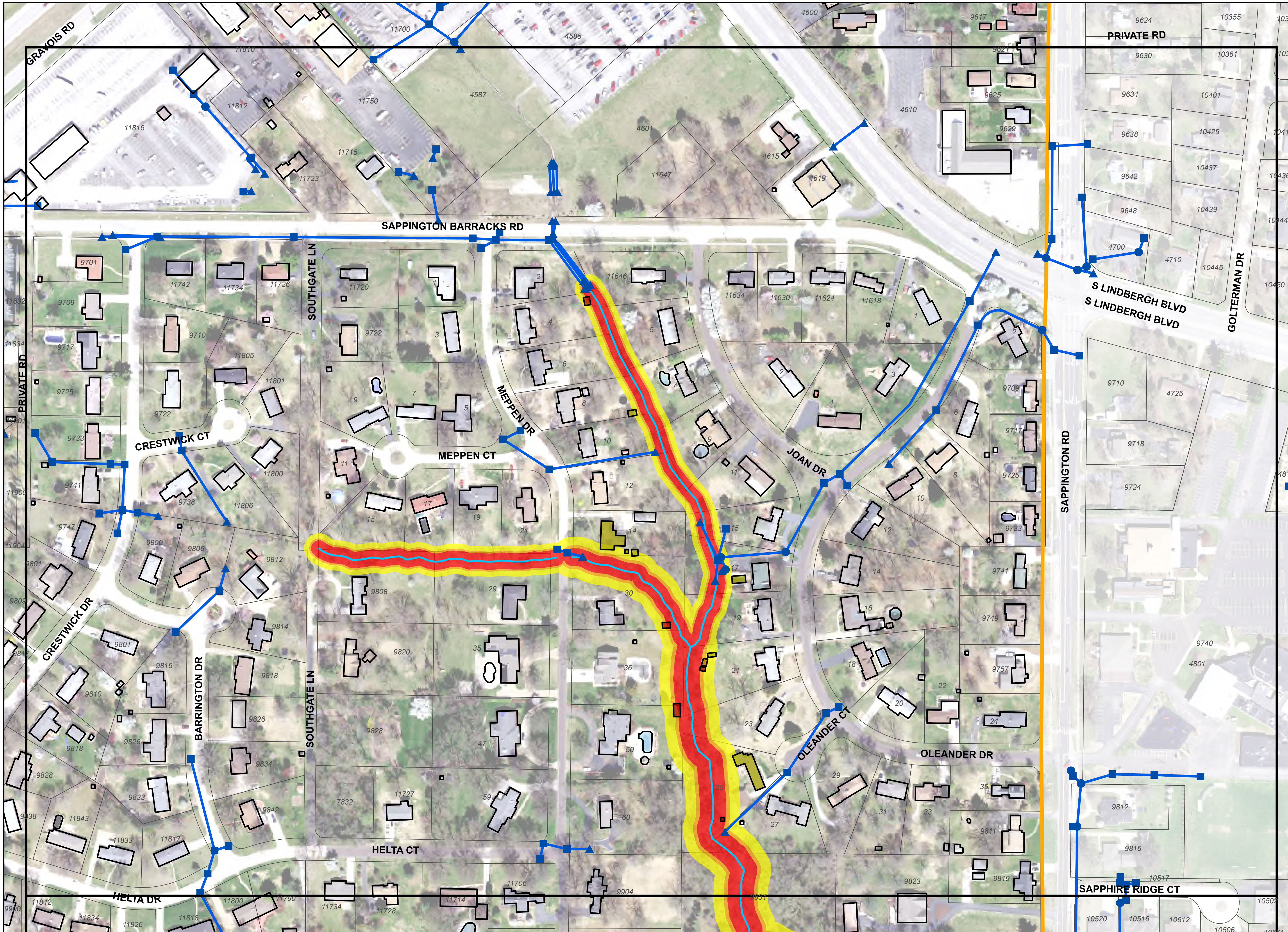

Sunset Hills Stormwater Master Plan

Appendix A5: Stream Buffer Map

Legend

- Sunset Hills Boundary
- Structures Outside of Stream Buffer

Stream Buffers
- Chronic
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Structures in Stream Buffer
- Chronic
- Frequent
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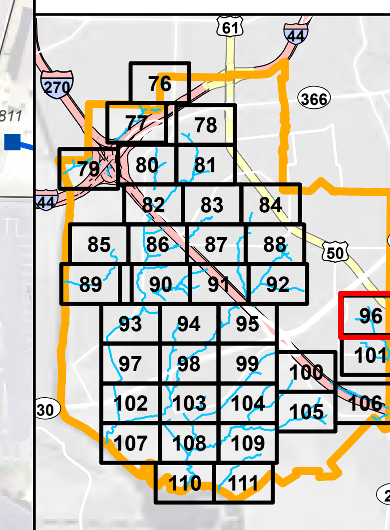

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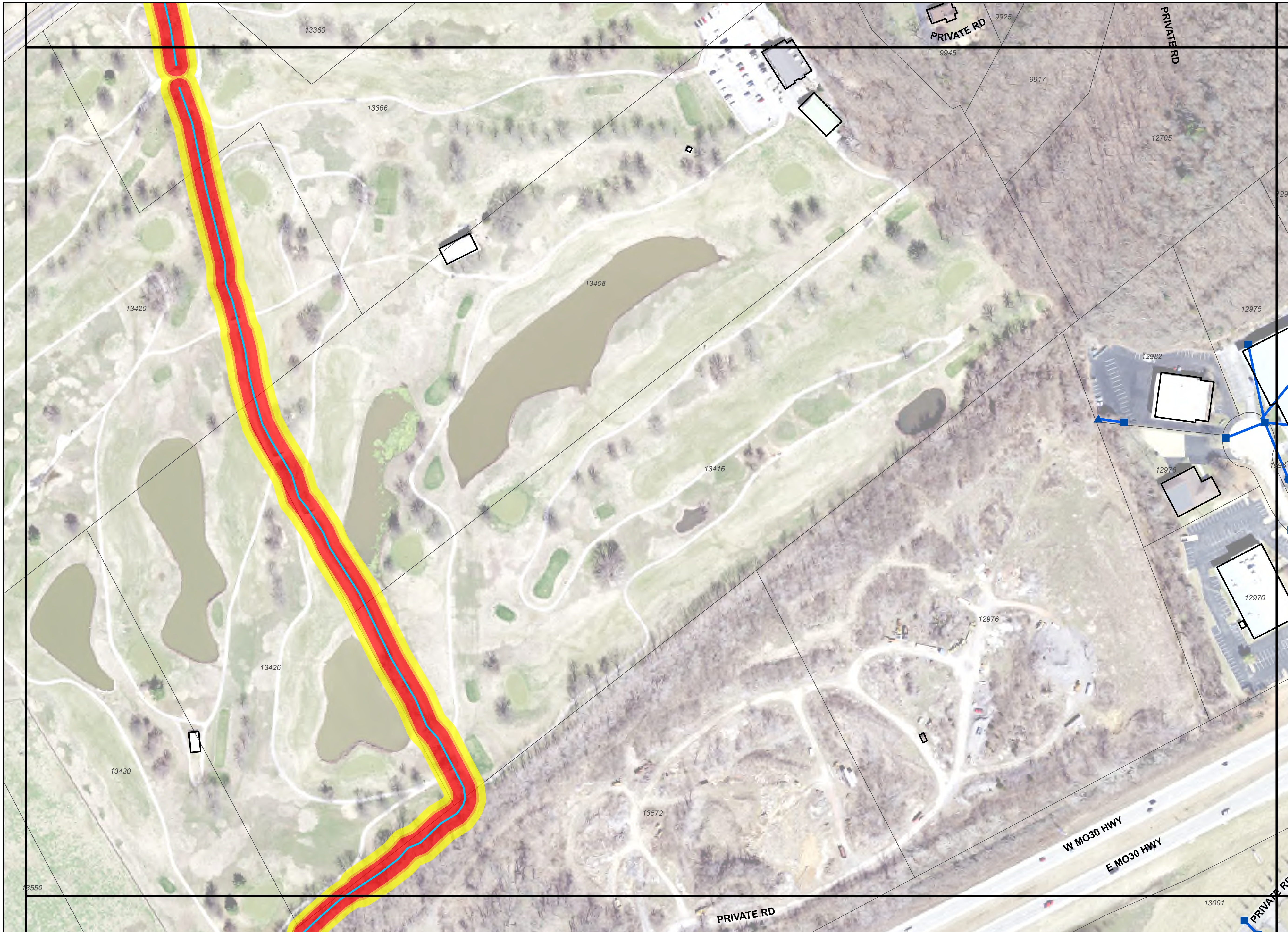


Sunset Hills

Sunset Hills Stormwater Master Plan

Appendix A5: Stream Buffer Map

Legend

Sunset Hills Boundary

Structures Outside of Stream Buffer

<u>Stream Buffers</u>

Chronic

Frequent

Infrequent

<u>Structures in Stream Buffer</u>

Chronic

Frequent

Infrequent

<u>Existing Storm System</u>

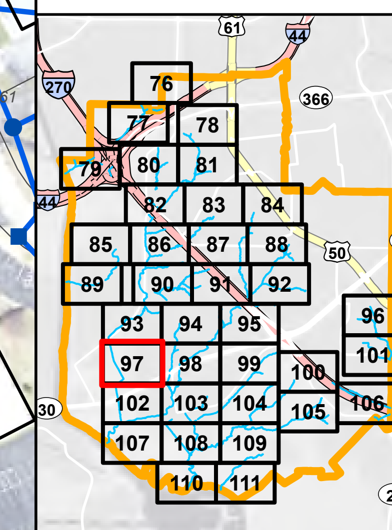
Intake/Outfall

Manhole

Inlet

Storm Sewer

Stream Centerline



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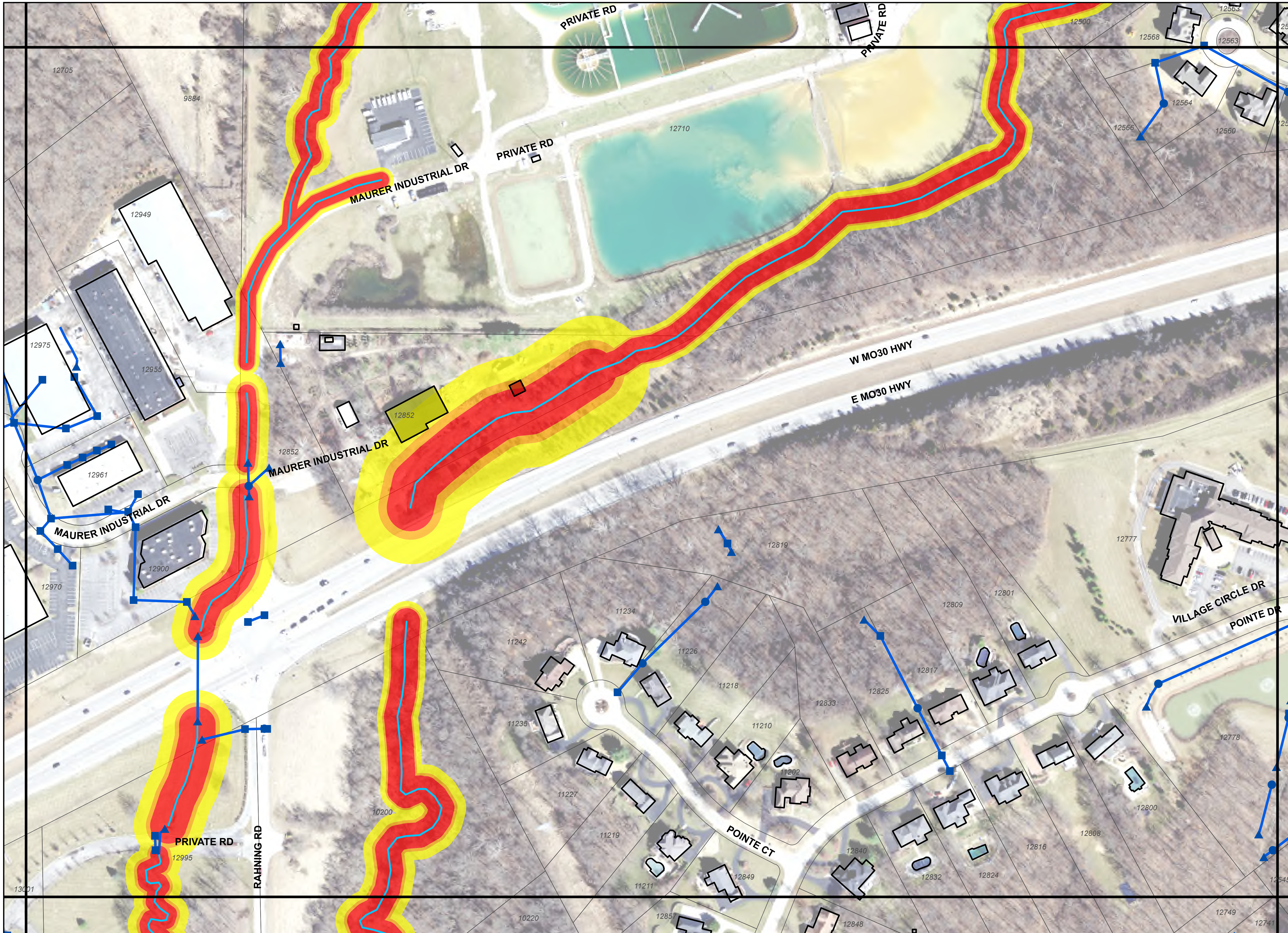
Sunset Hills

Sunset Hills Stormwater Master Plan

Appendix A5: Stream Buffer Map



Legend

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- Structures Outside of Stream Buffer

Stream Buffers

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- Frequent
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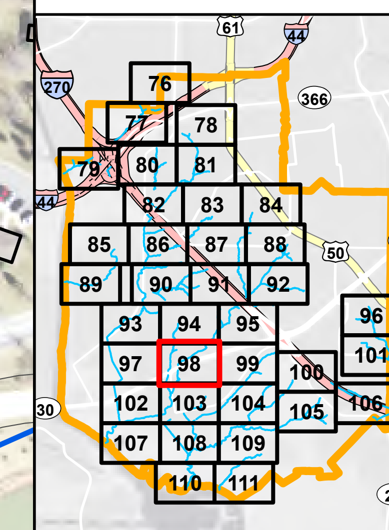

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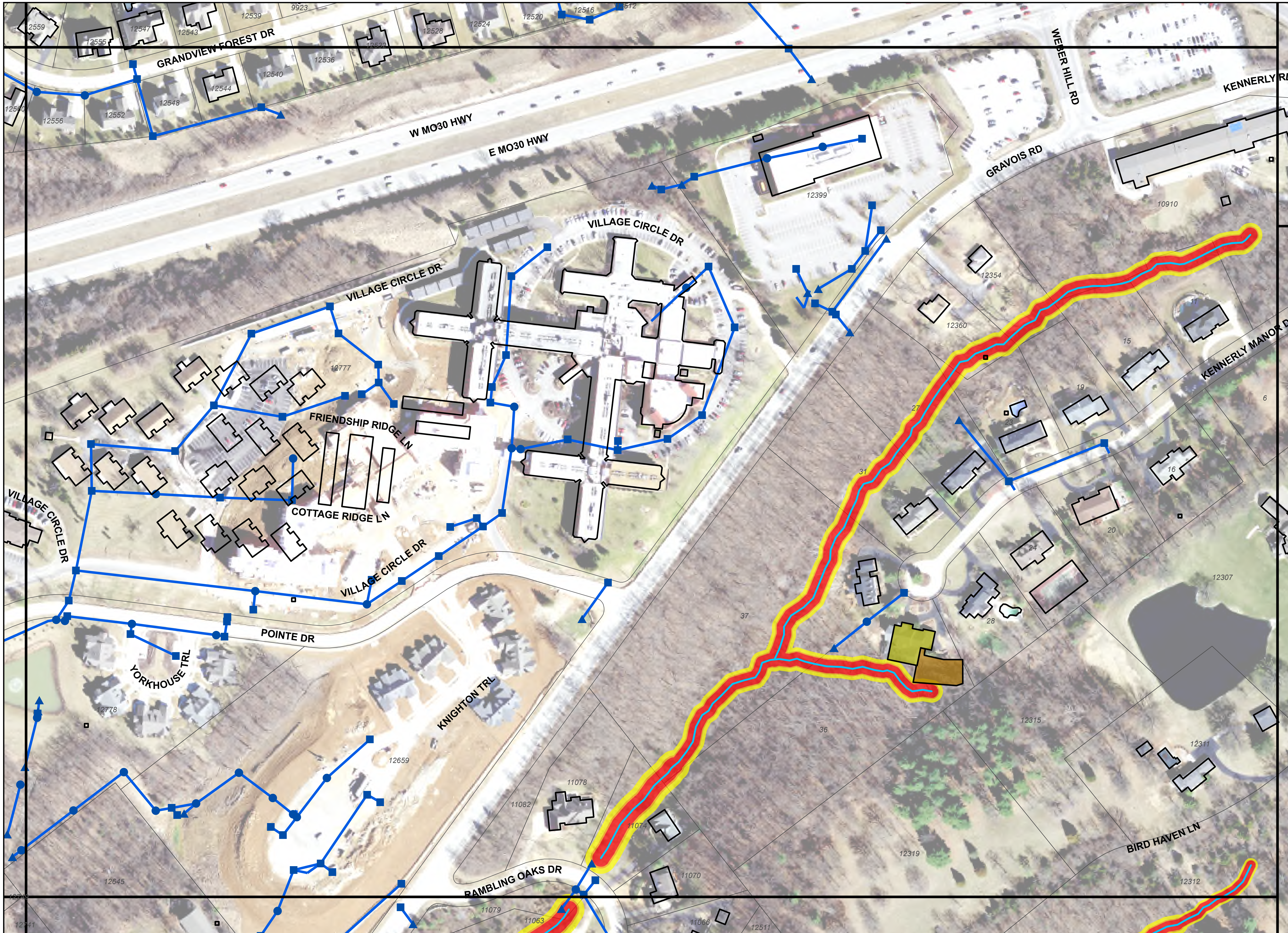

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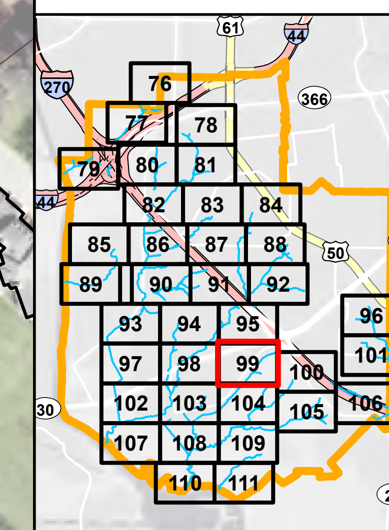

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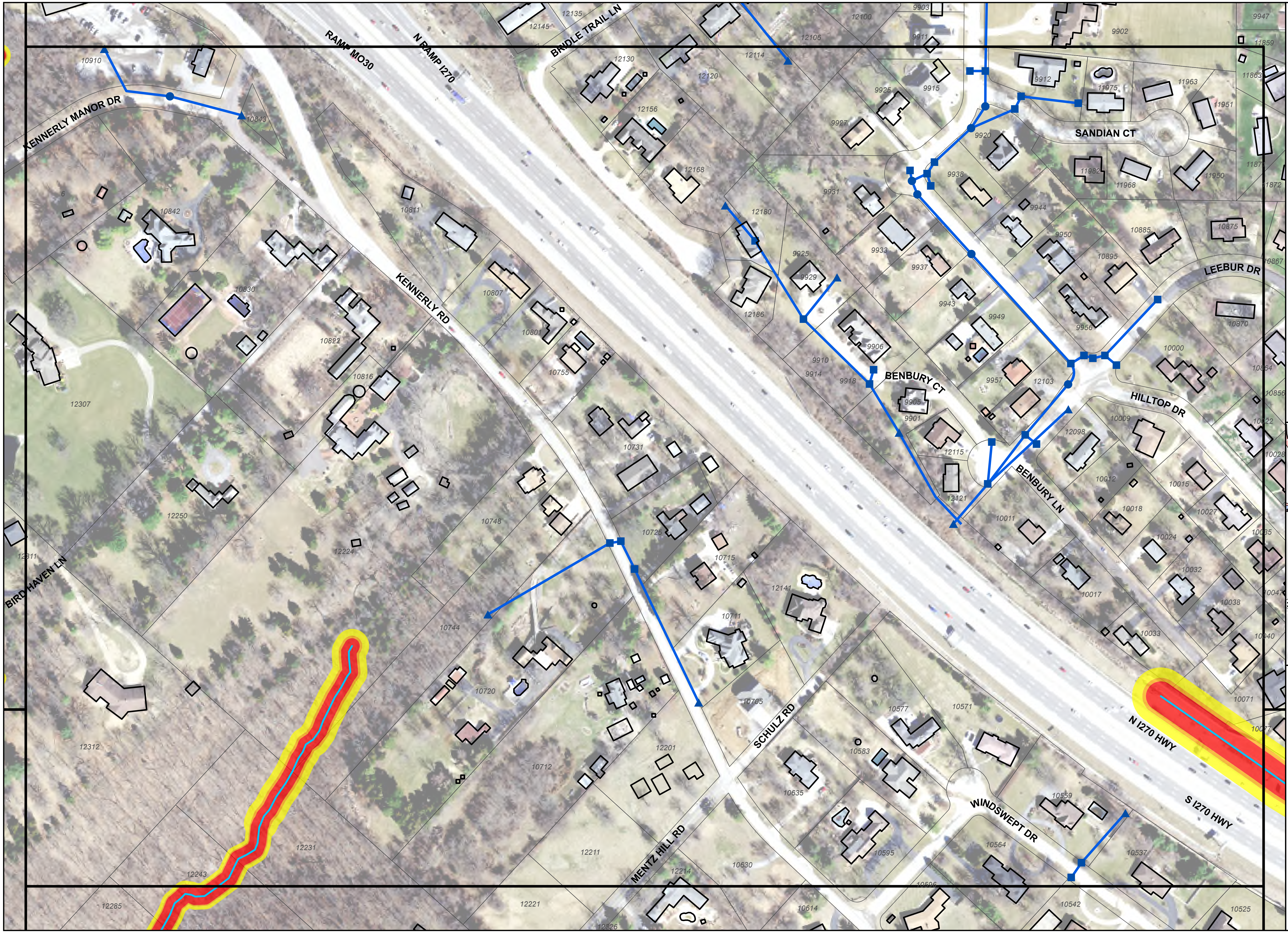

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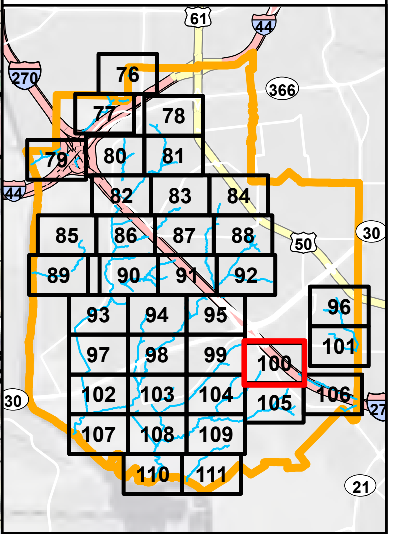

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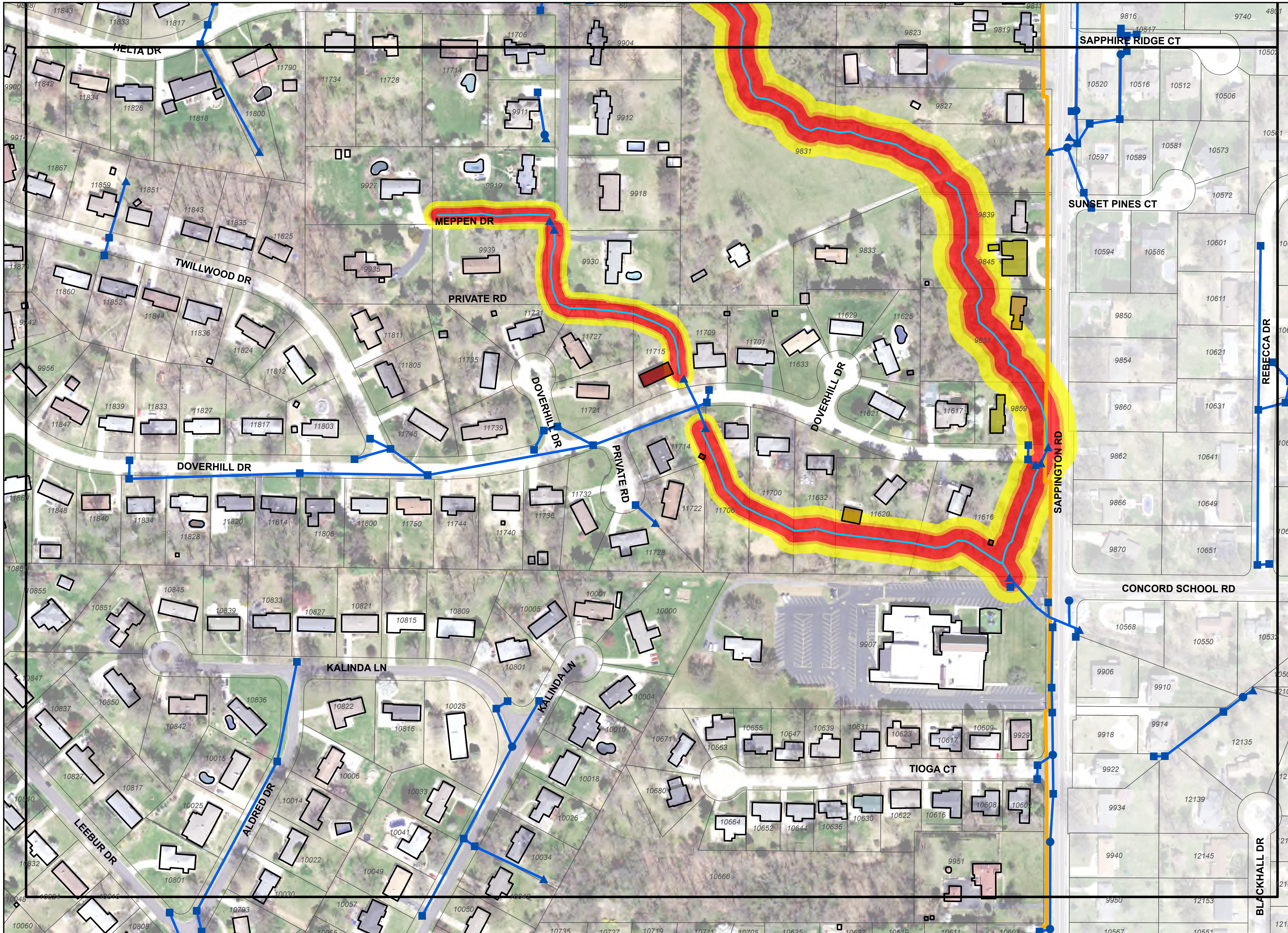

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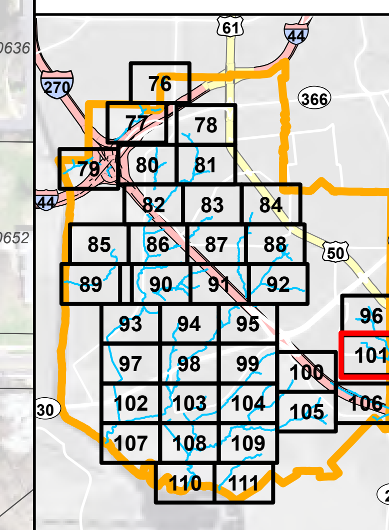

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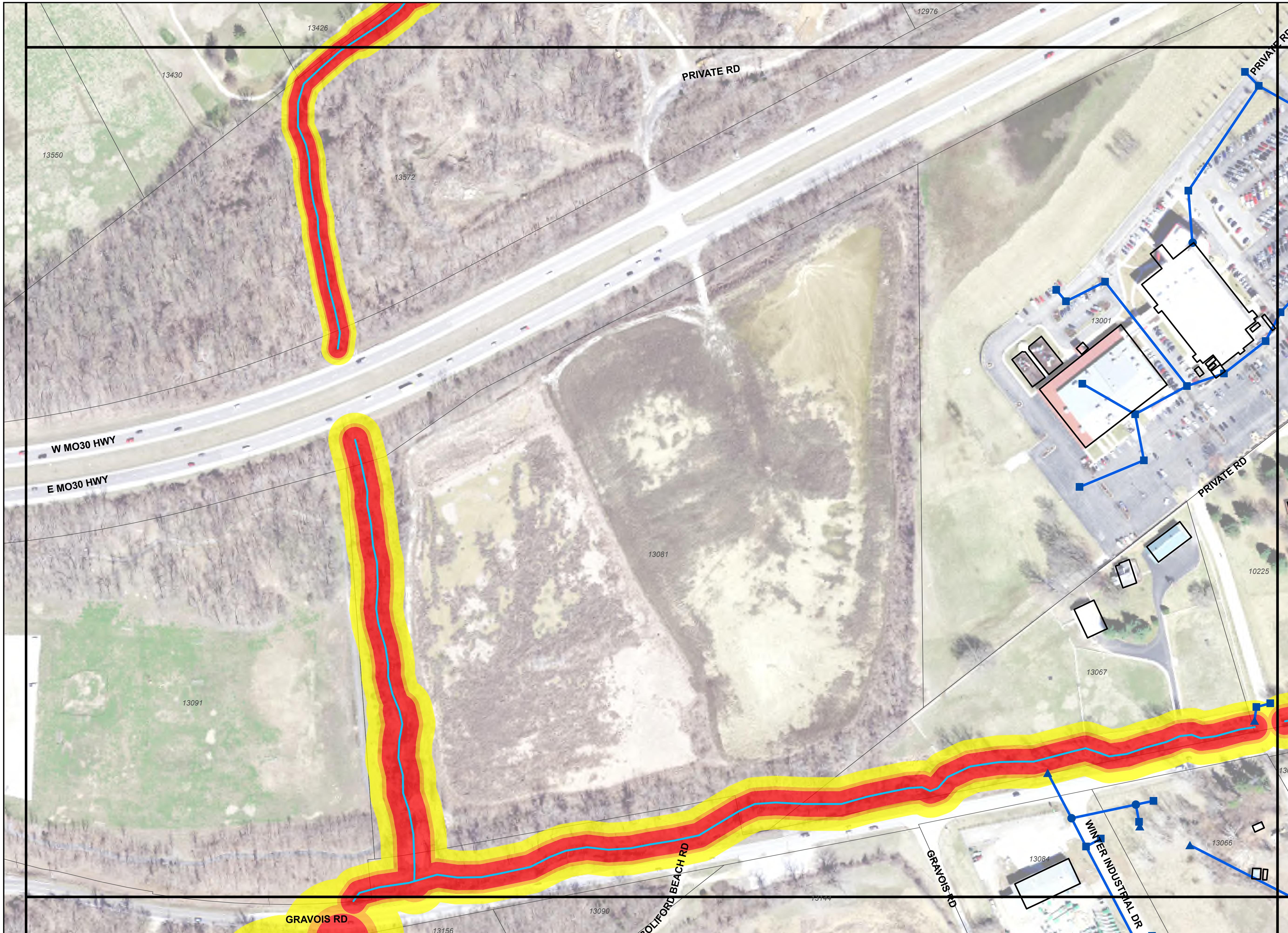

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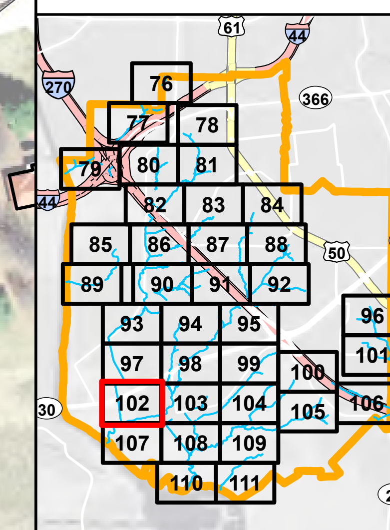

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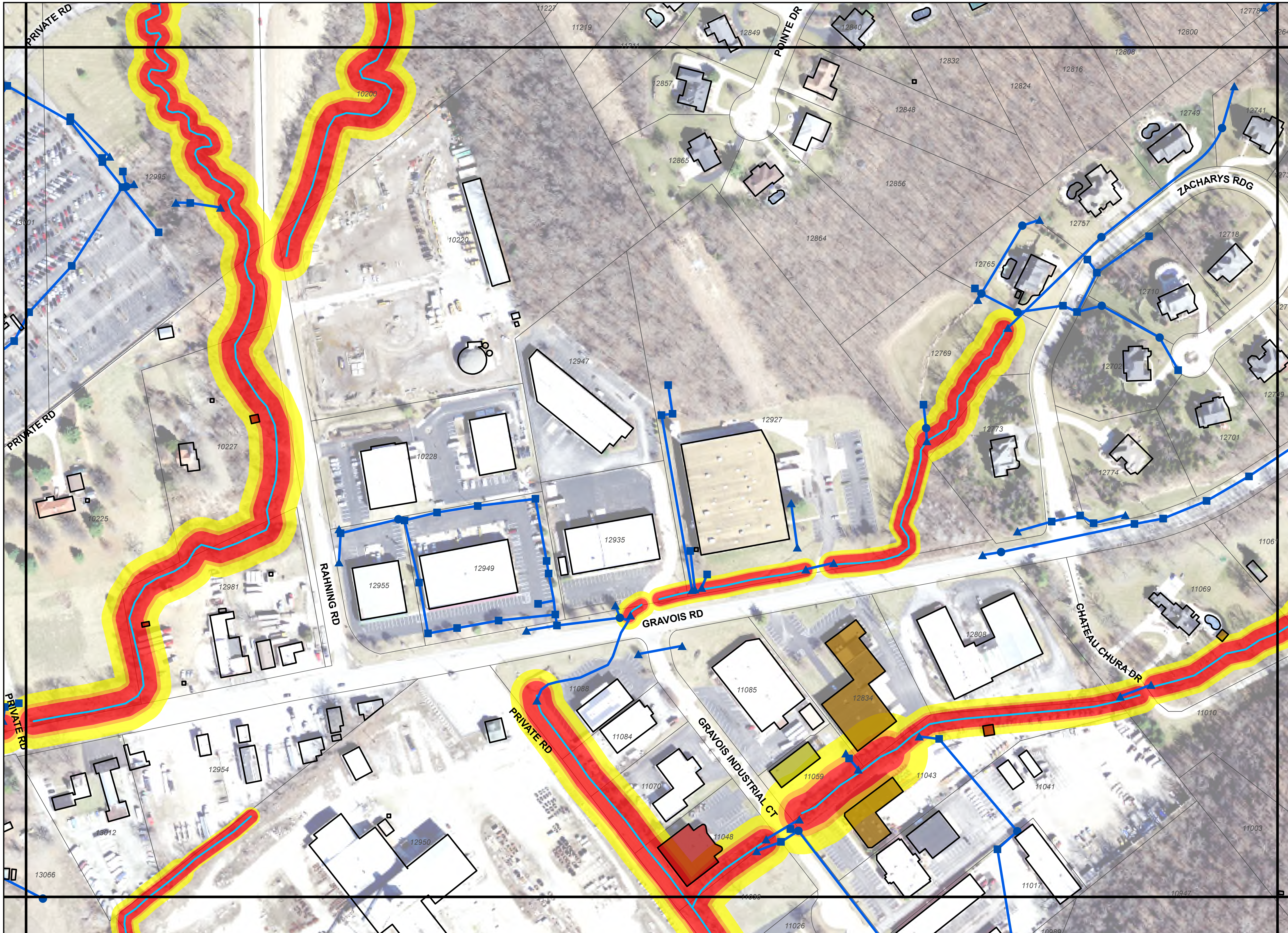

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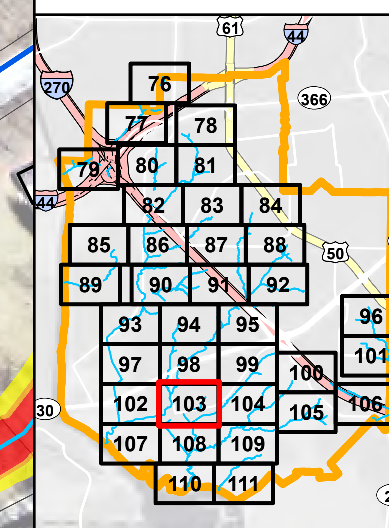

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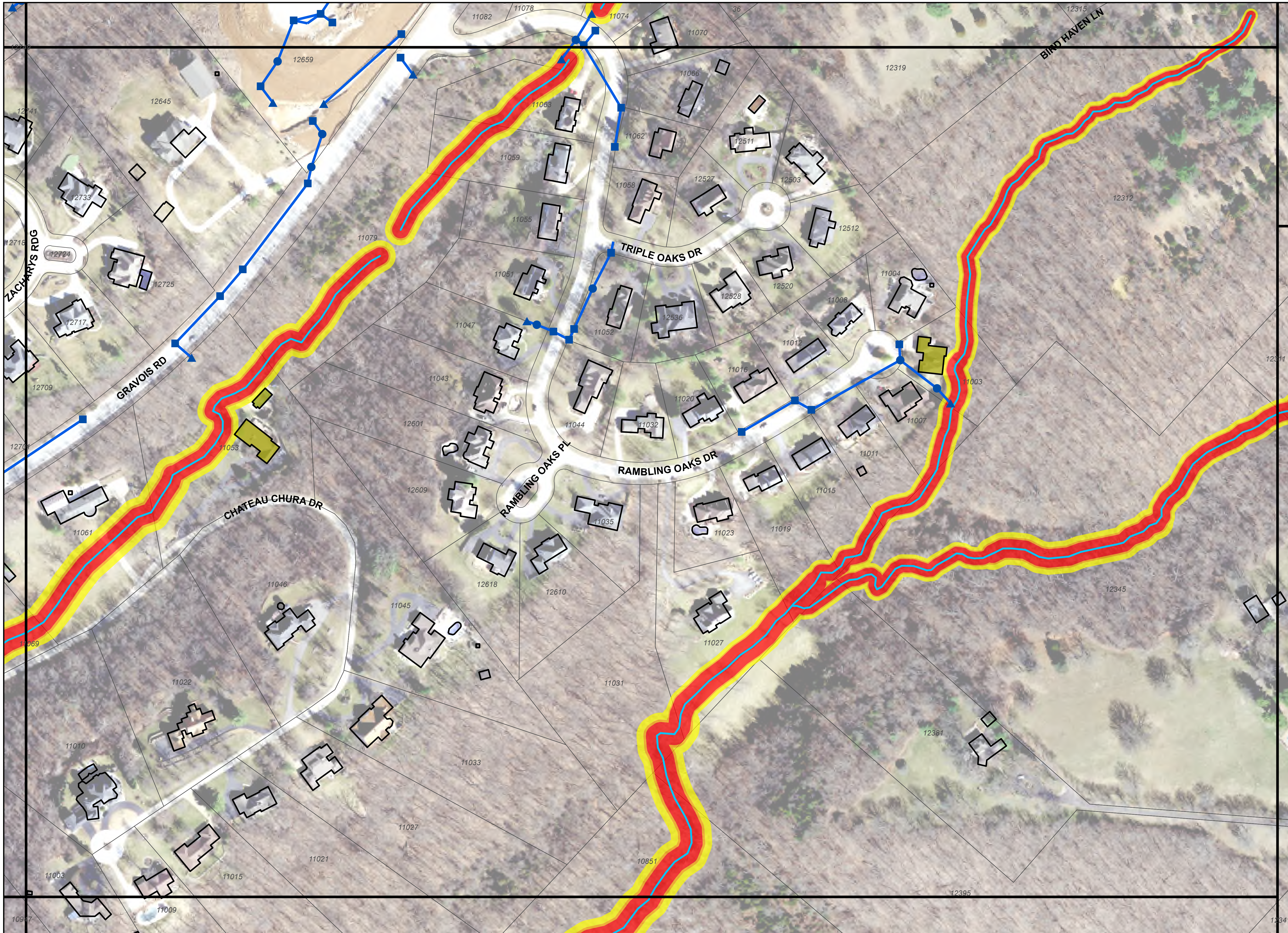

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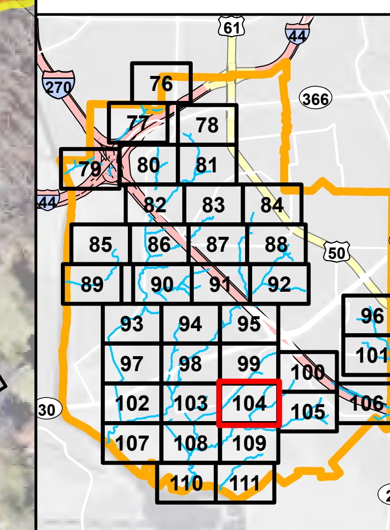

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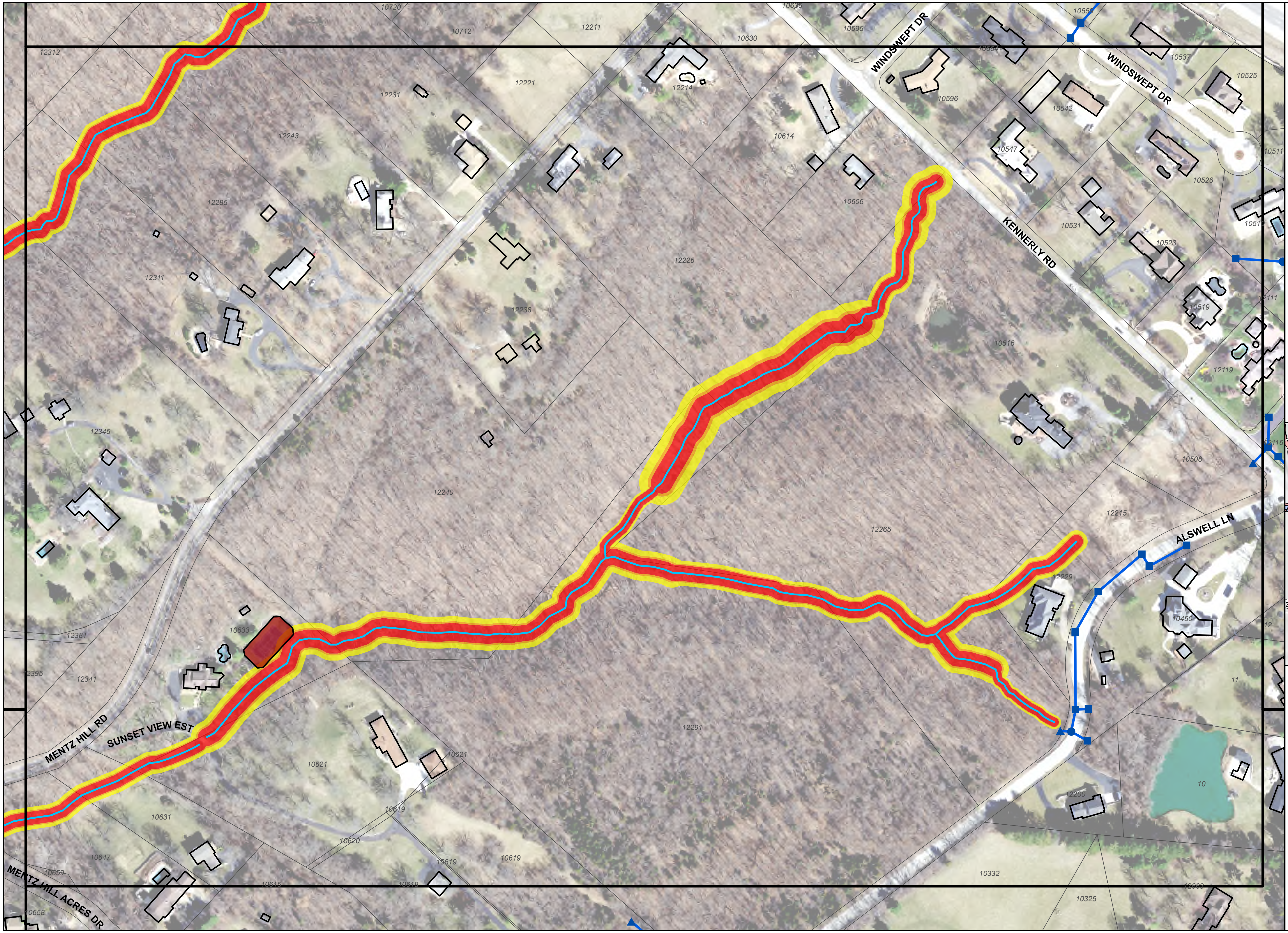

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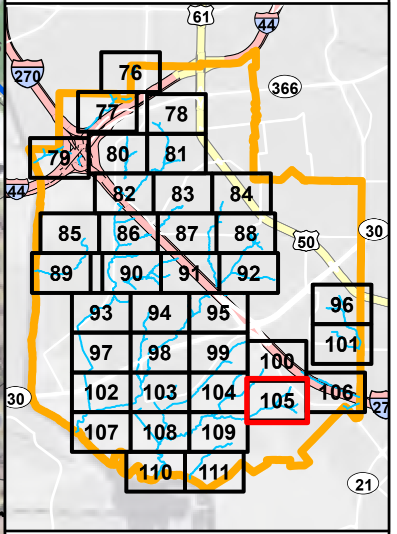

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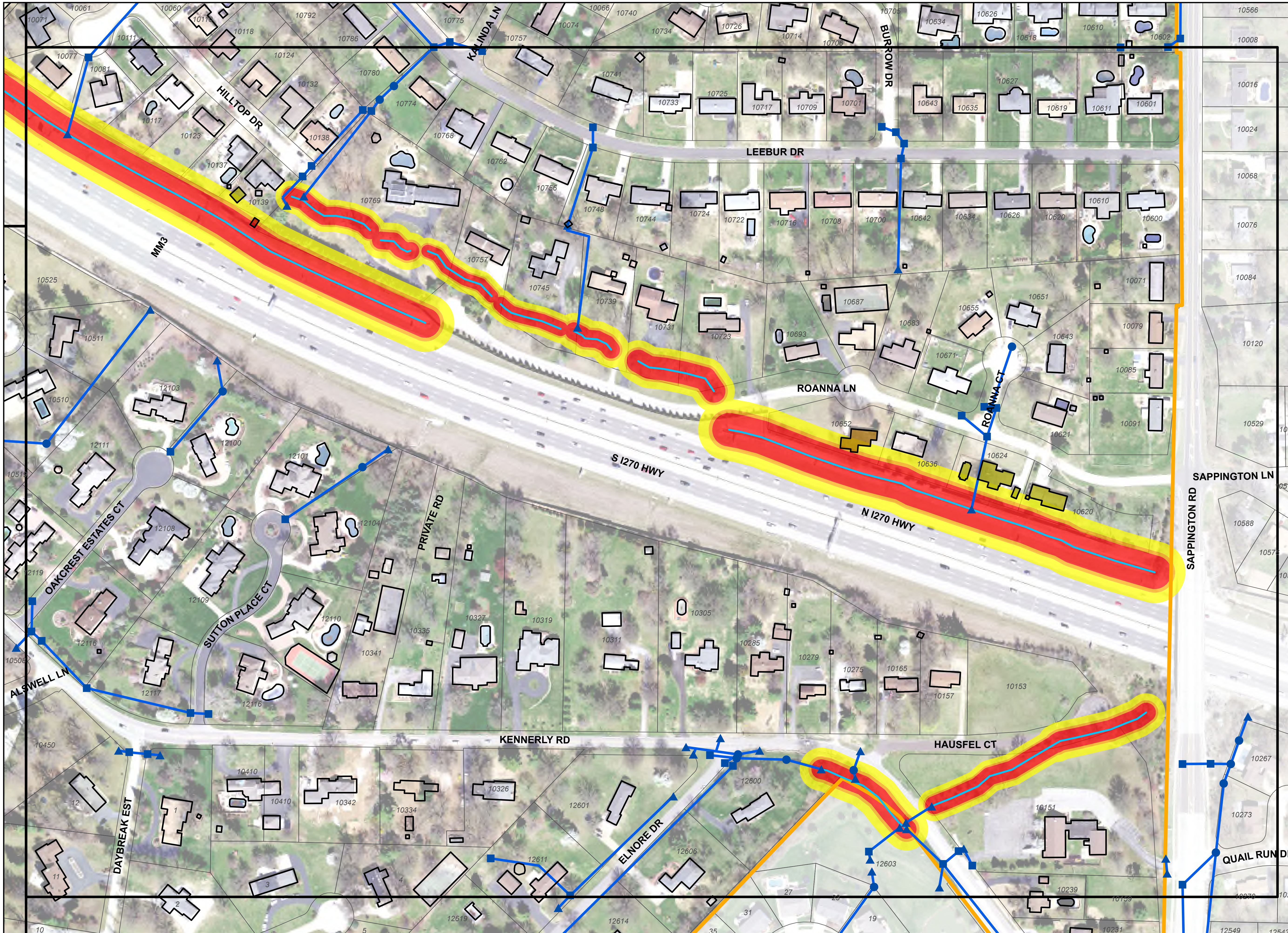

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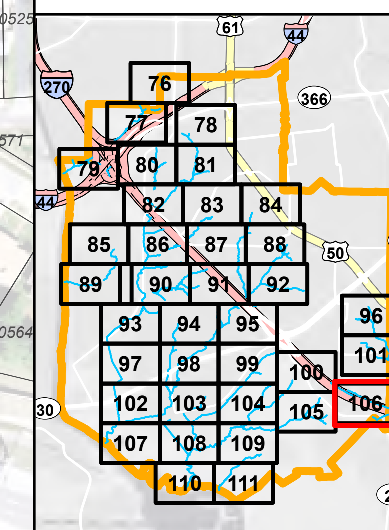

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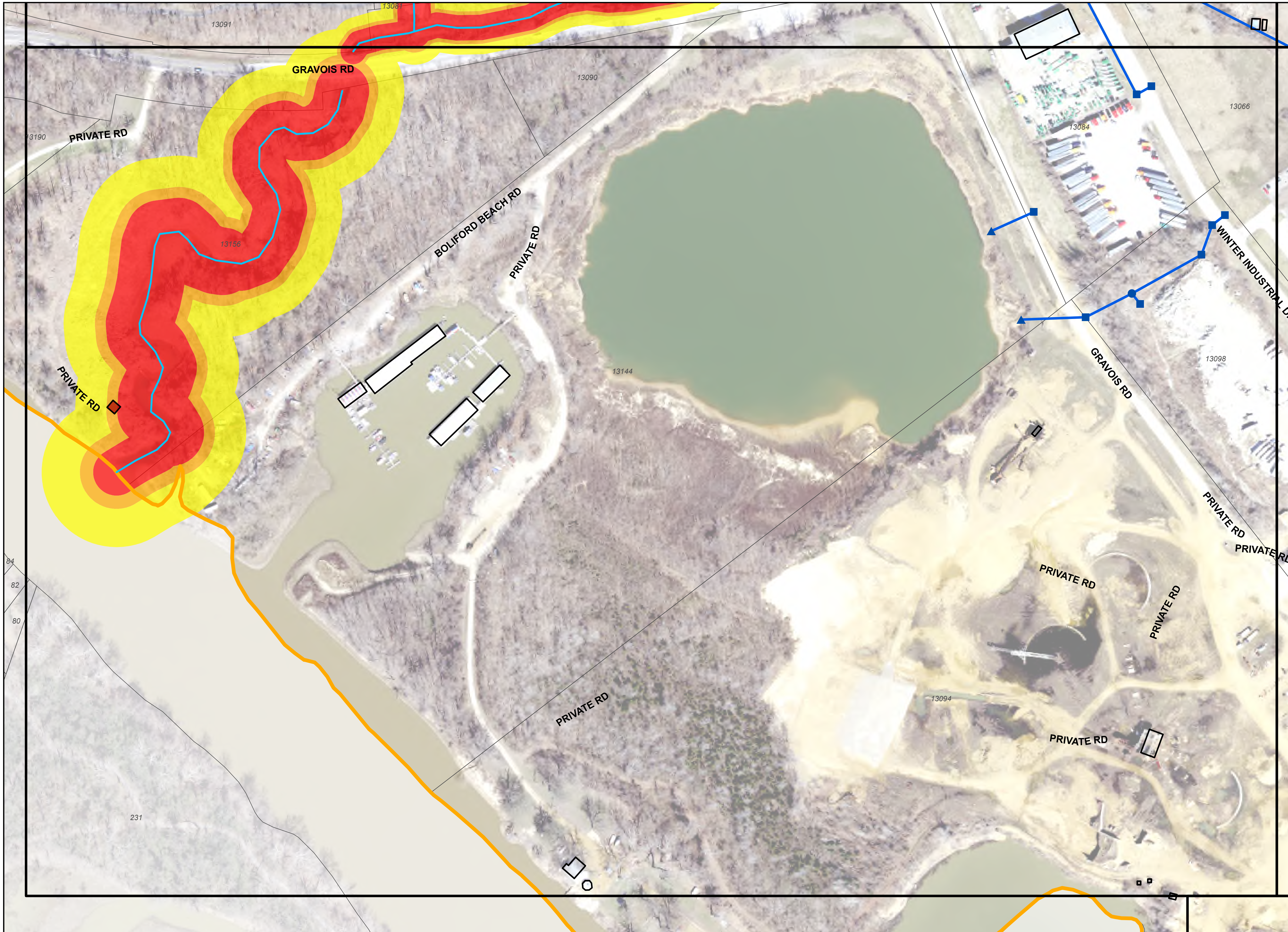
0 100 200 Feet

1 inch = 200 feet

Sunset Hills

Sunset Hills Stormwater Master Plan

Appendix A5: Stream Buffer Map



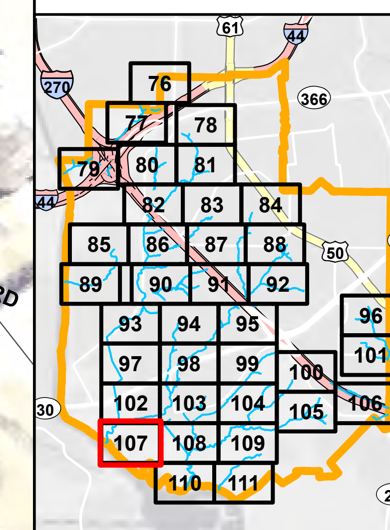
Legend

- Sunset Hills Boundary
- Structures Outside of Stream Buffer

Stream Buffers
- Chronic
- Frequent
- Infrequent

Structures in Stream Buffer
- Chronic
- Frequent
- Infrequent

Existing Storm System
- Intake/Outfall
- Manhole
- Inlet
- Storm Sewer
- Stream Centerline



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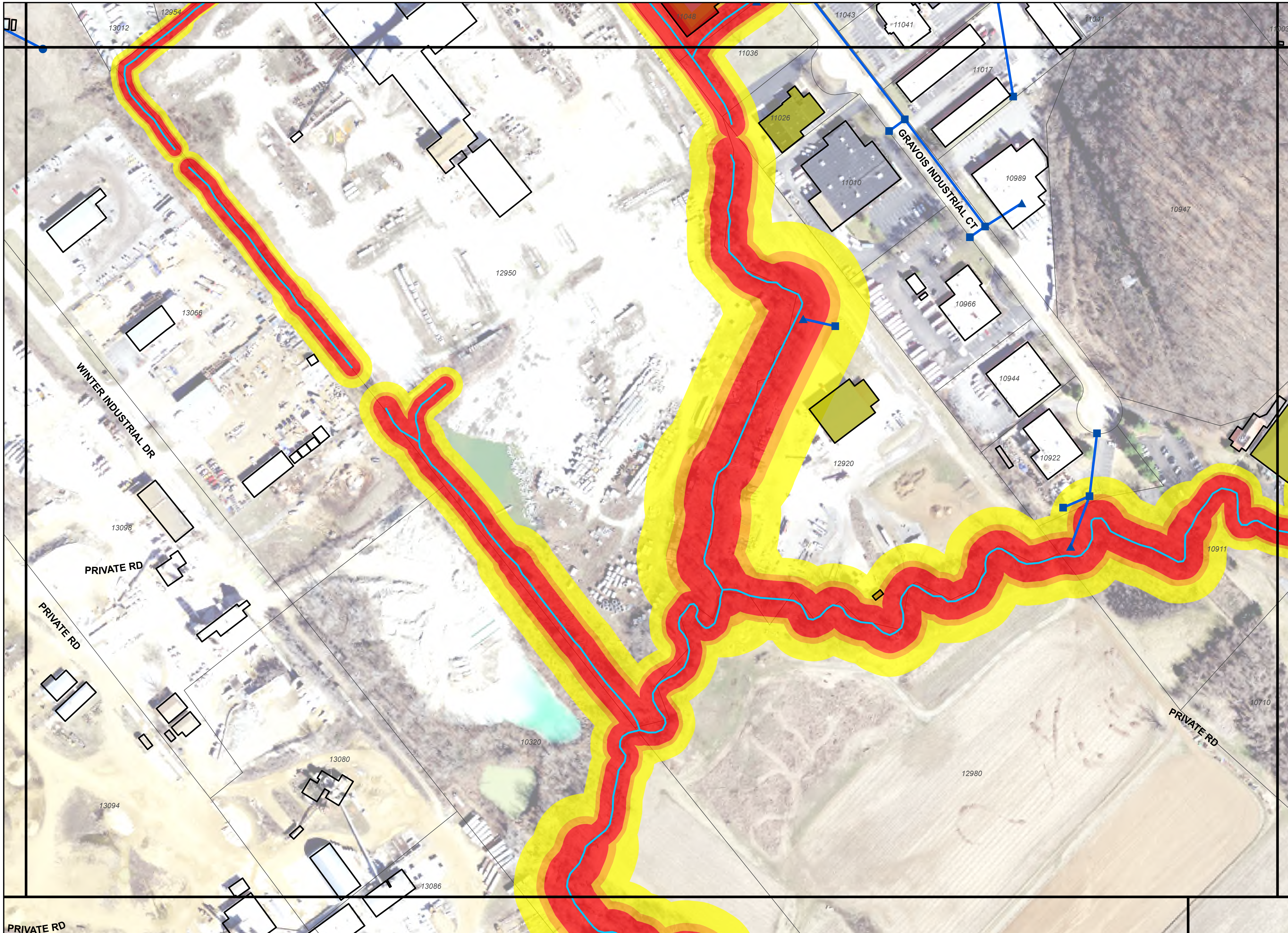

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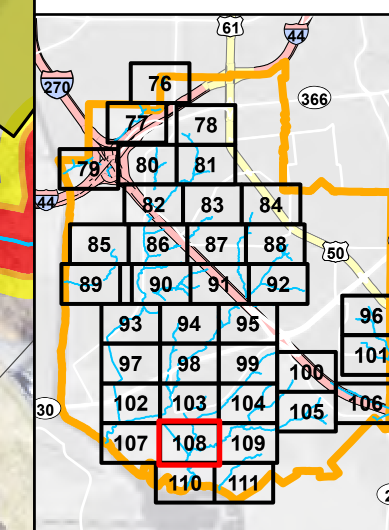

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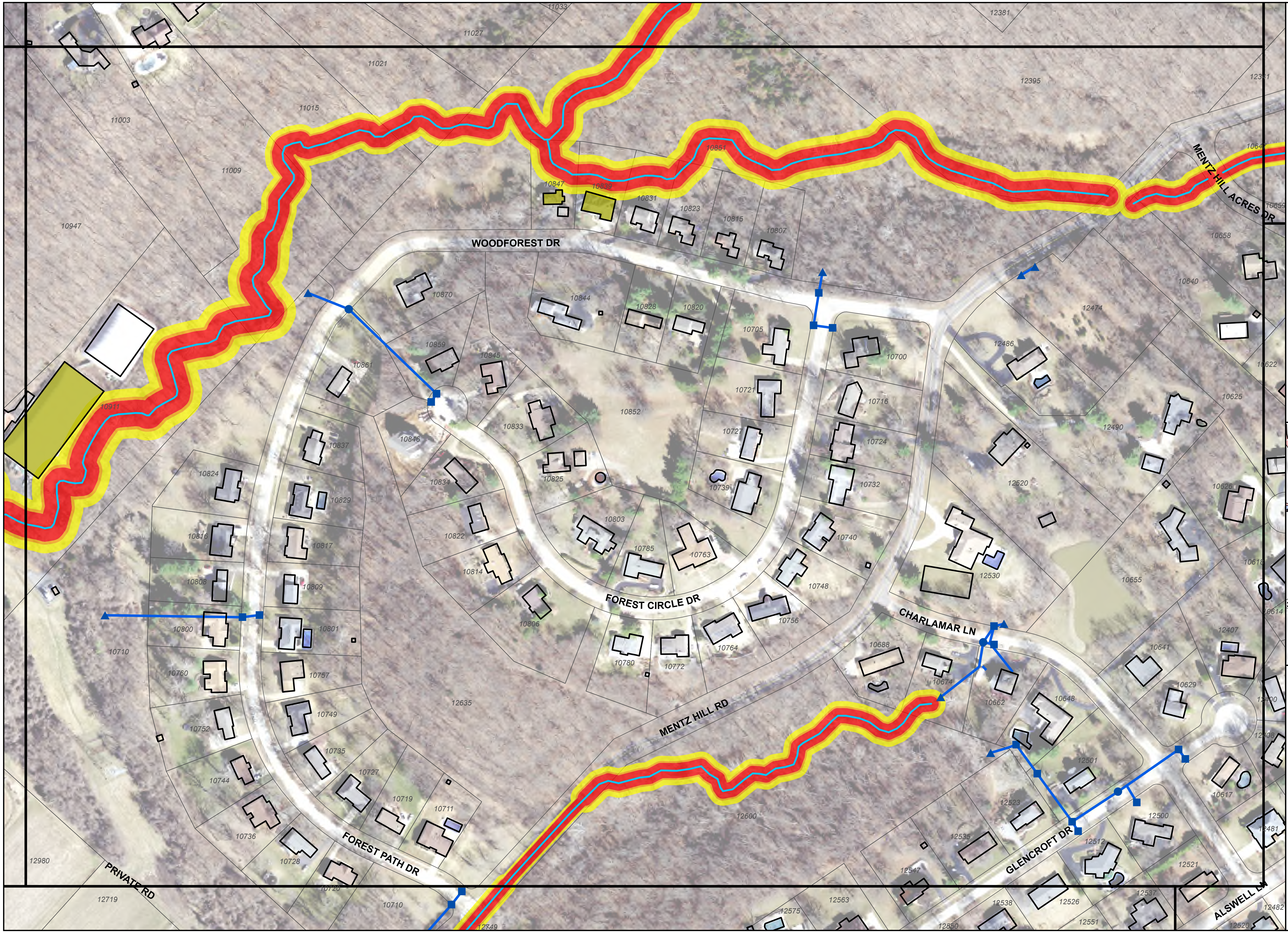

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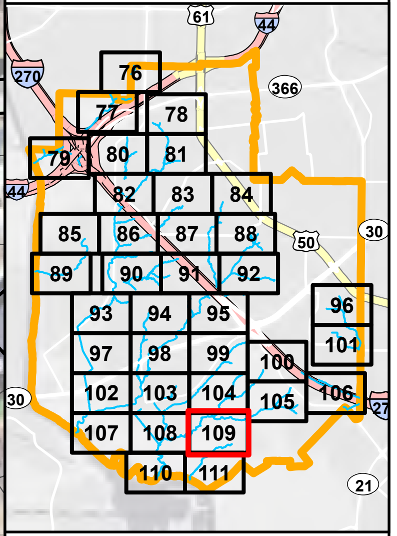

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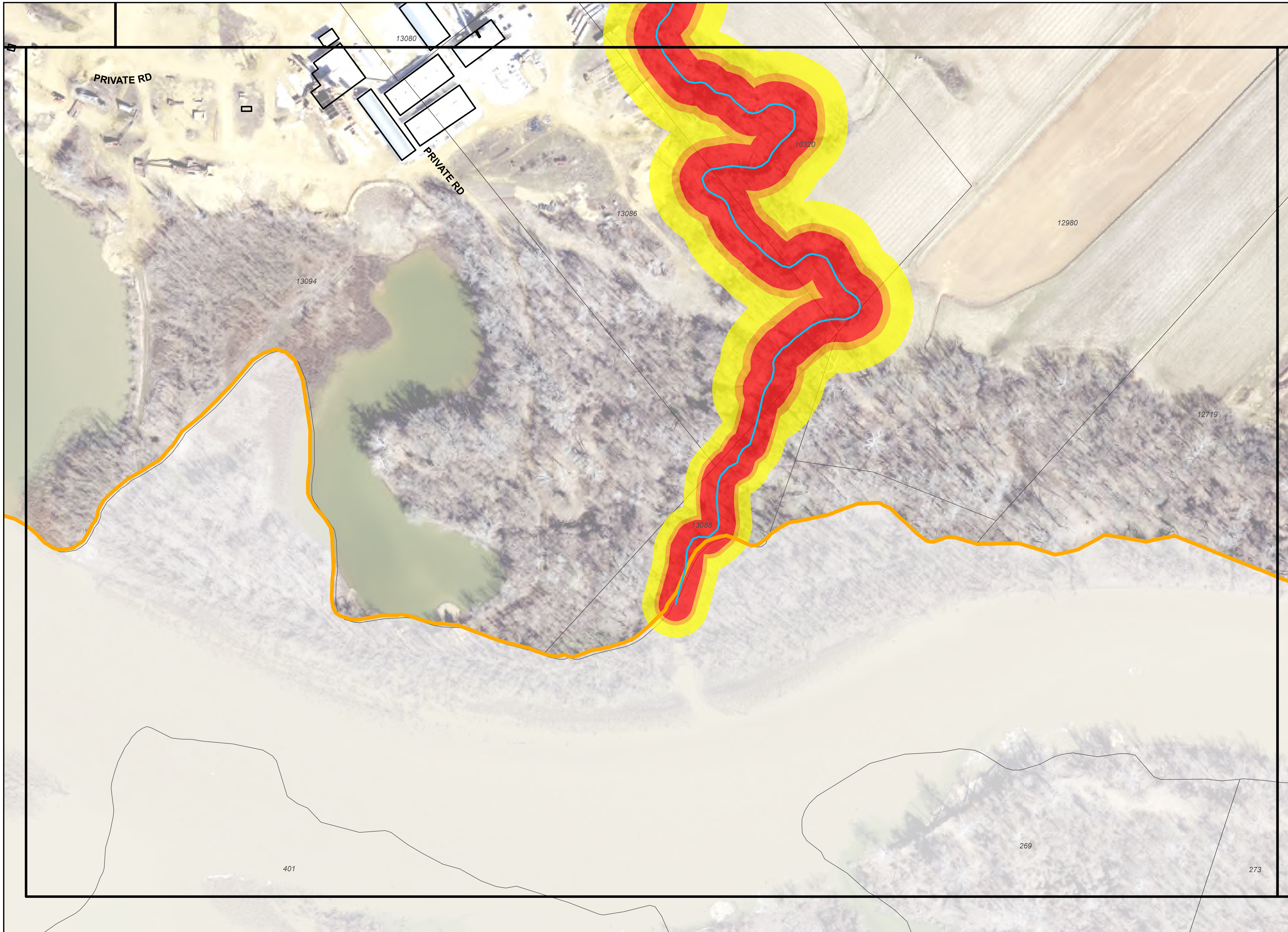

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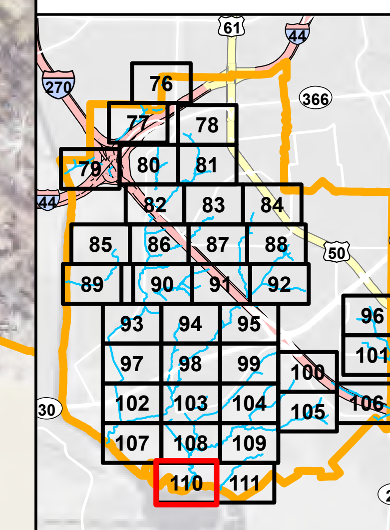

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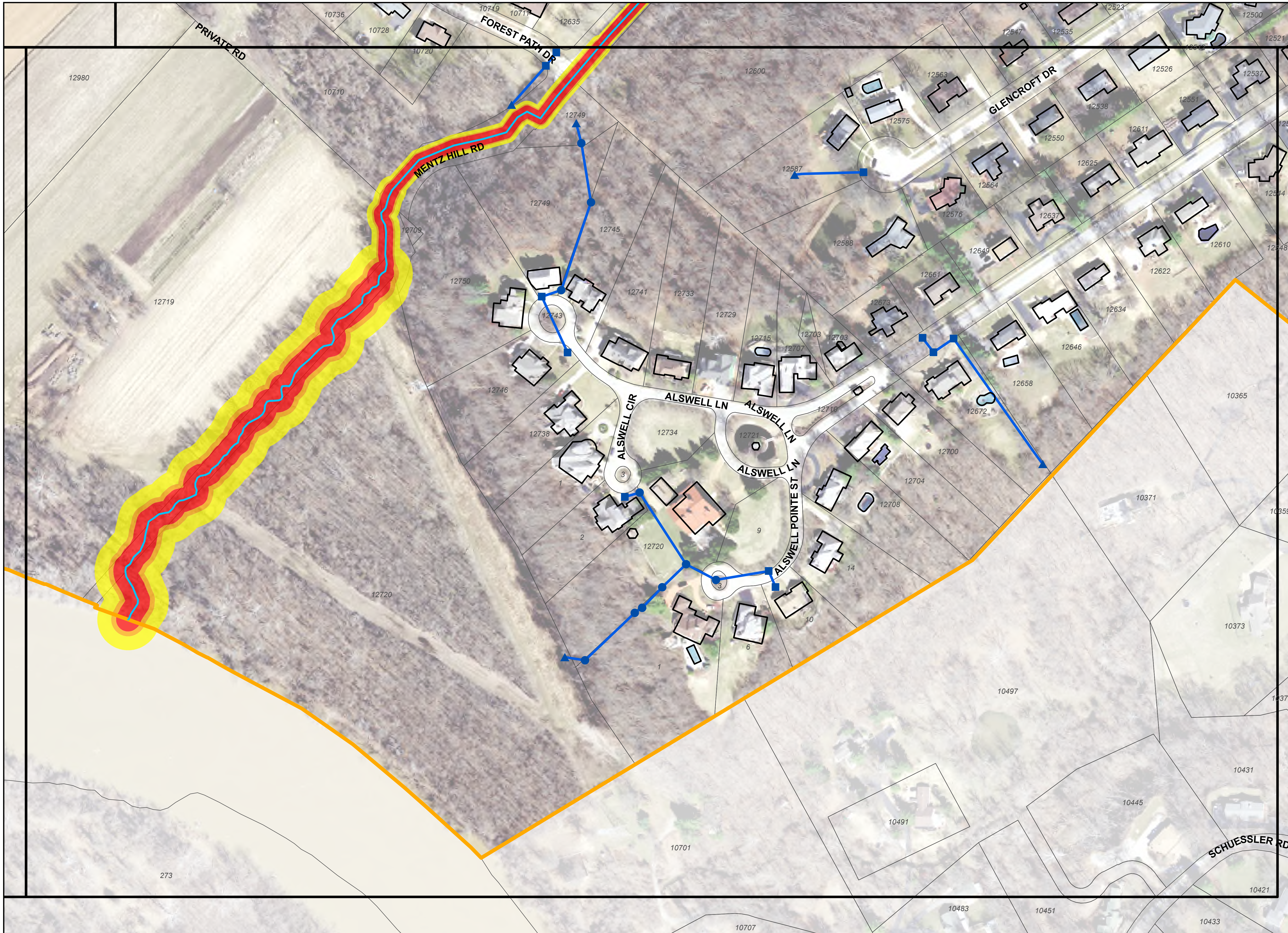

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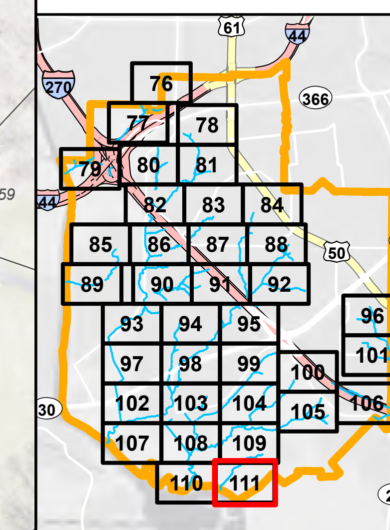

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