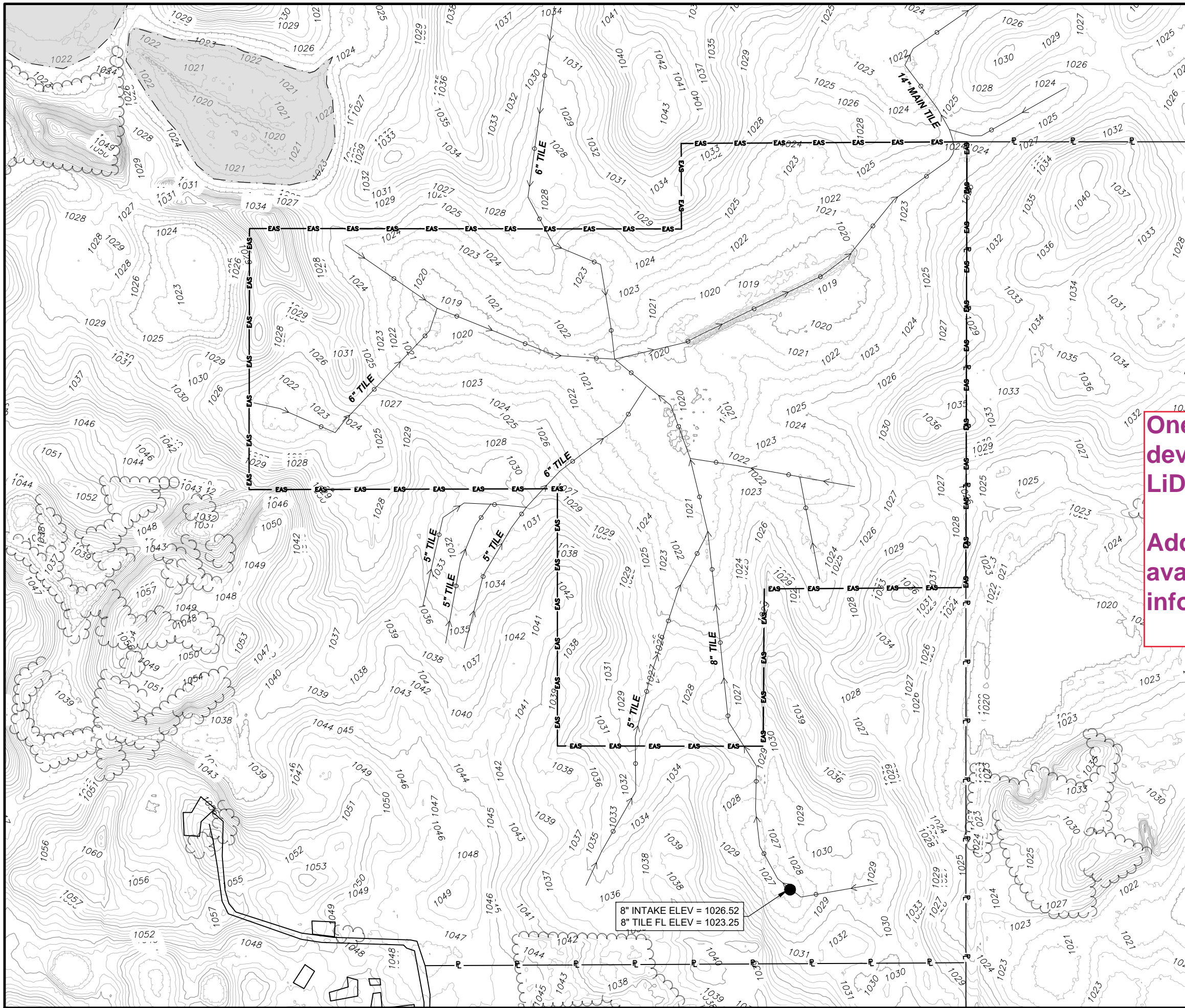


Landowners in Wright County MN want to restore a large tile drained wetland on their property.

They have pretty good tile maps of the farm but haven't owned for that long and they claim there may be more tile than they are aware of. Note tile main flows out to the NE.

This is the project boundary they wish to consider but indicate some flexibility to add more if needed. They are really hoping we can provide them with a nice wetland complex including lot's of open water.

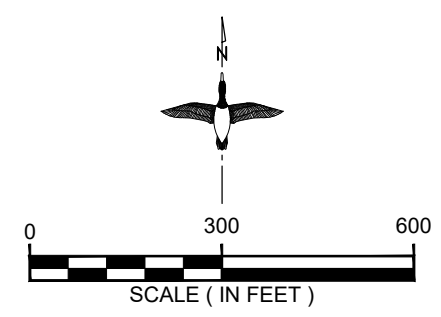


LEGEND

- EXISTING INTAKES
- EXISTING PRIVATE TILE
- EXISTING TREELINE
- APPROXIMATE PROPERTY LINE
- CONSERVATION EASEMENT

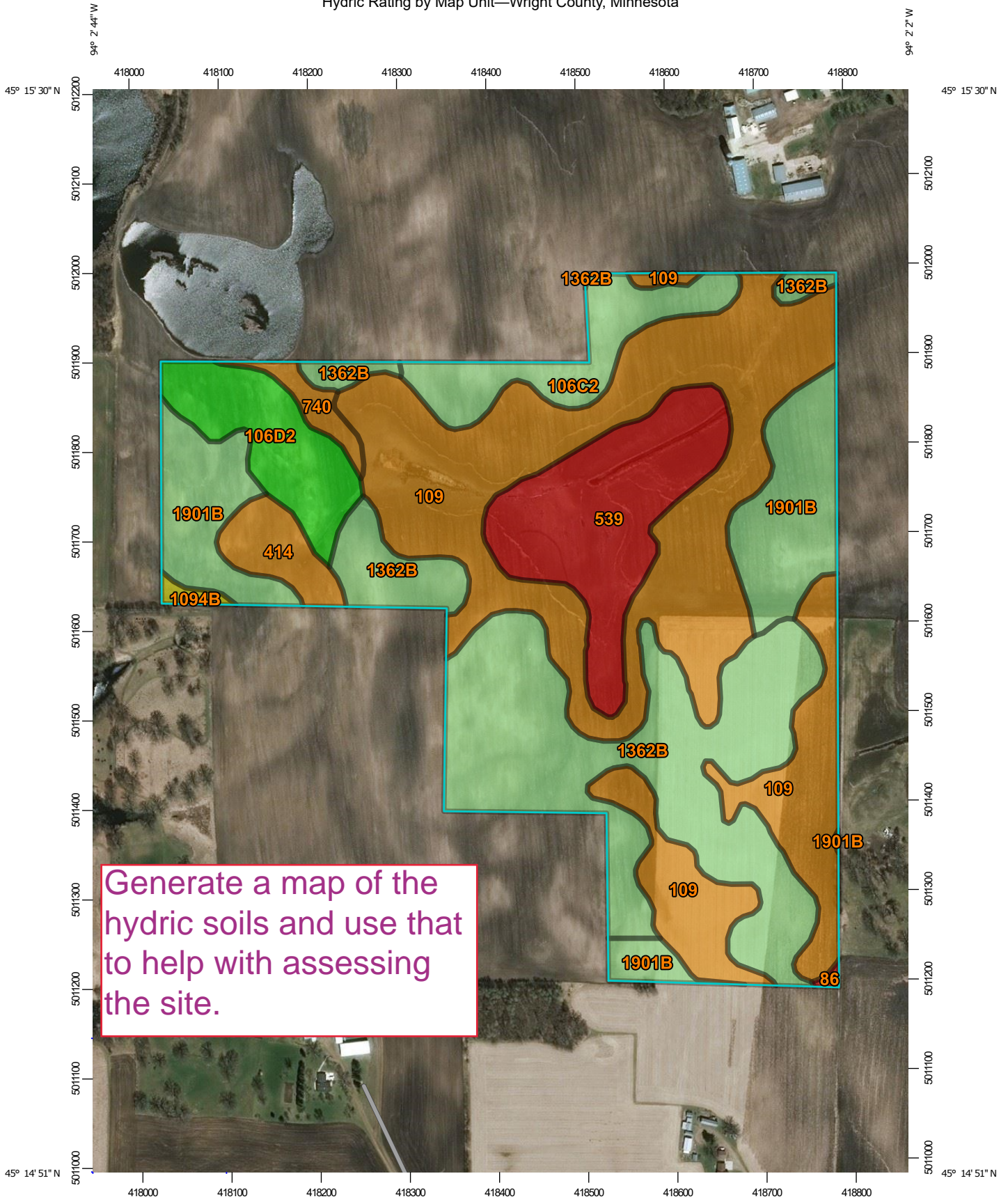
One of the first steps is to develop a site map using LiDAR derived contours.

Add to the map other available and pertinent site information.



DESIGN DATE:	DESIGNED BY:	DESIGN DATE:	DESIGNED BY:
SURVEY DATE:	SURVEYED BY:	SURVEY DATE:	SURVEYED BY:
HORZ DATUM: NAD83	VERT DATUM: NAVD88	HORZ DATUM: NAD83	VERT DATUM: NAVD88
GEODETTIC CONTROL REF: MNDOT DISK*		GEODETTIC CONTROL REF: MNDOT DISK*	
CONTROL EL.:		CONTROL EL.:	
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Hydric Rating by Map Unit—Wright County, Minnesota



Generate a map of the hydric soils and use that to help with assessing the site.

Map Scale: 1:5,890 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
106C2	Lester loam, 6 to 10 percent slopes, moderately eroded	2	2.8	4.3%
106D2	Lester loam, 10 to 16 percent slopes, moderately eroded	0	3.4	5.3%
109	Cordova clay loam, 0 to 2 percent slopes	90	24.9	38.5%
414	Hamel loam, 0 to 2 percent slopes	90	2.4	3.7%
539	Klossner muck, 0 to 1 percent slopes	100	10.4	16.2%
740	Hamel-Glencoe complex, 0 to 2 percent slopes	90	0.5	0.7%
1094B	Angus-Cordova complex, 0 to 5 percent slopes	35	0.1	0.1%
1362B	Angus loam, 2 to 6 percent slopes	5	12.3	19.1%
1901B	Angus-Le Sueur complex, 1 to 6 percent slopes	10	7.7	12.0%
Totals for Area of Interest			64.6	100.0%

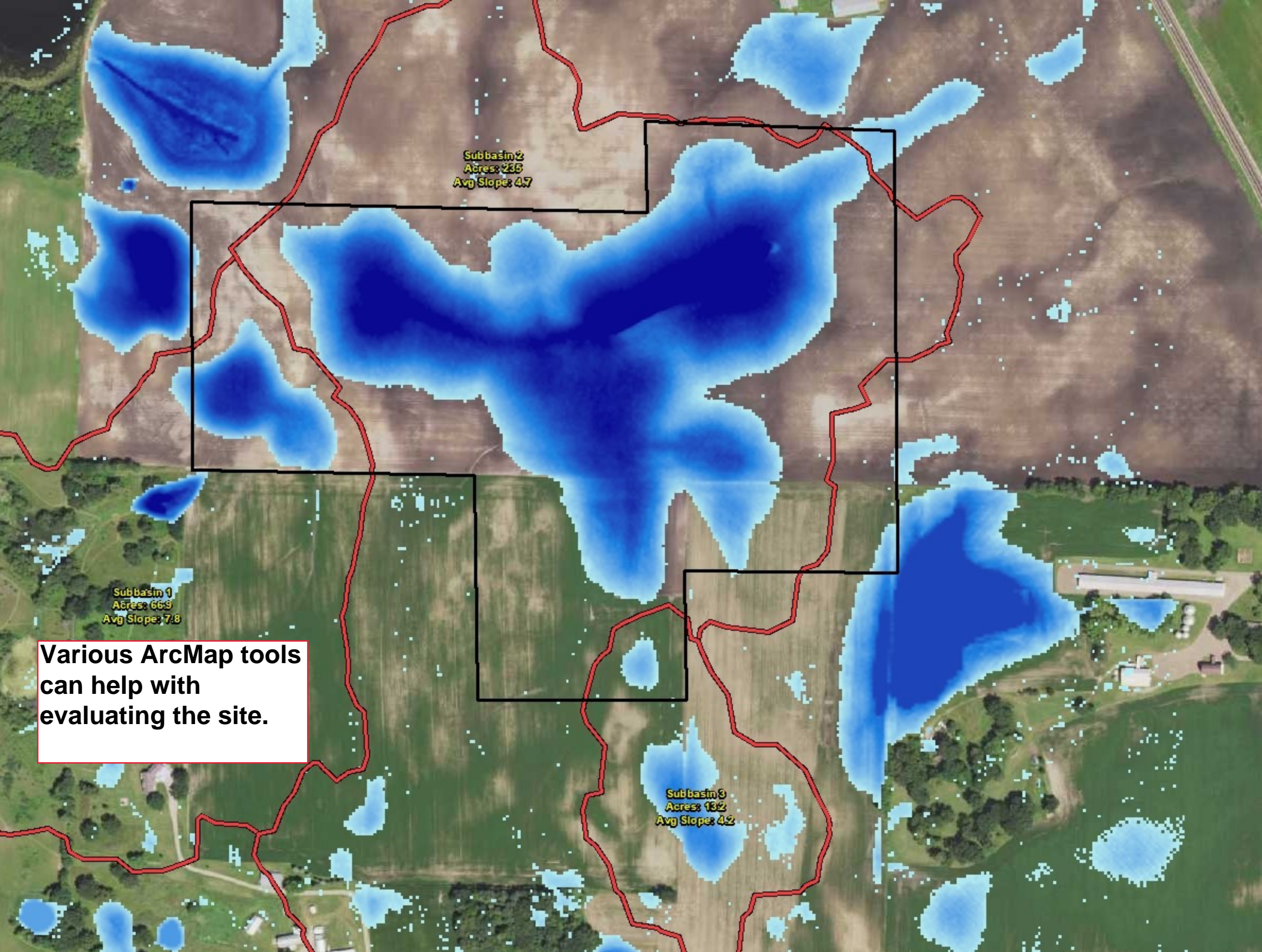
Review all available aerial photos and look for indicators of wet soils and possible tile/drainage signatures



Ditch/Gully?



Tile?

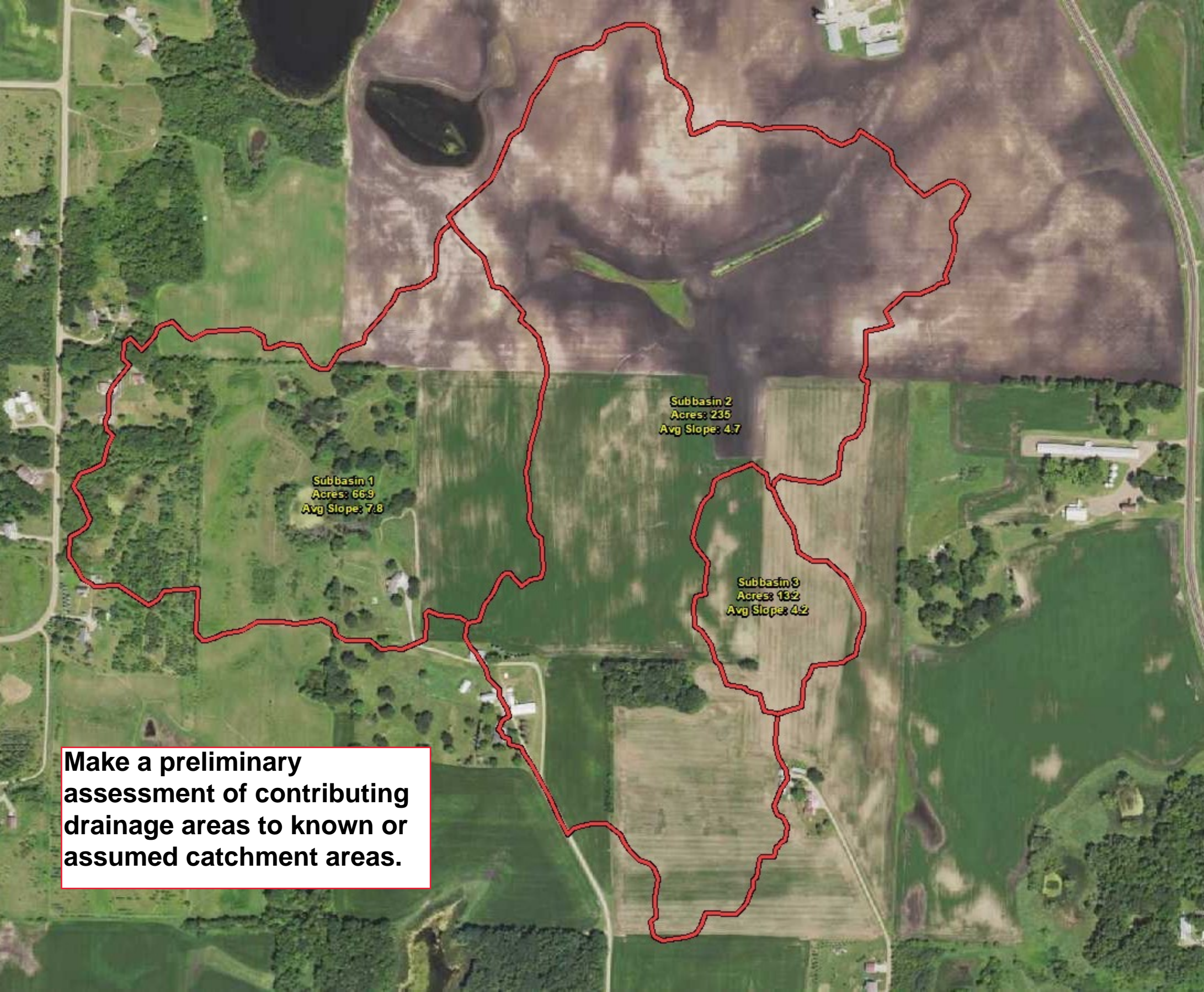


Subbasin 2
Acres: 235
Avg Slope: 4.7

Subbasin 1
Acres: 66.9
Avg Slope: 7.8

Subbasin 3
Acres: 132
Avg Slope: 4.2

**Various ArcMap tools
can help with
evaluating the site.**

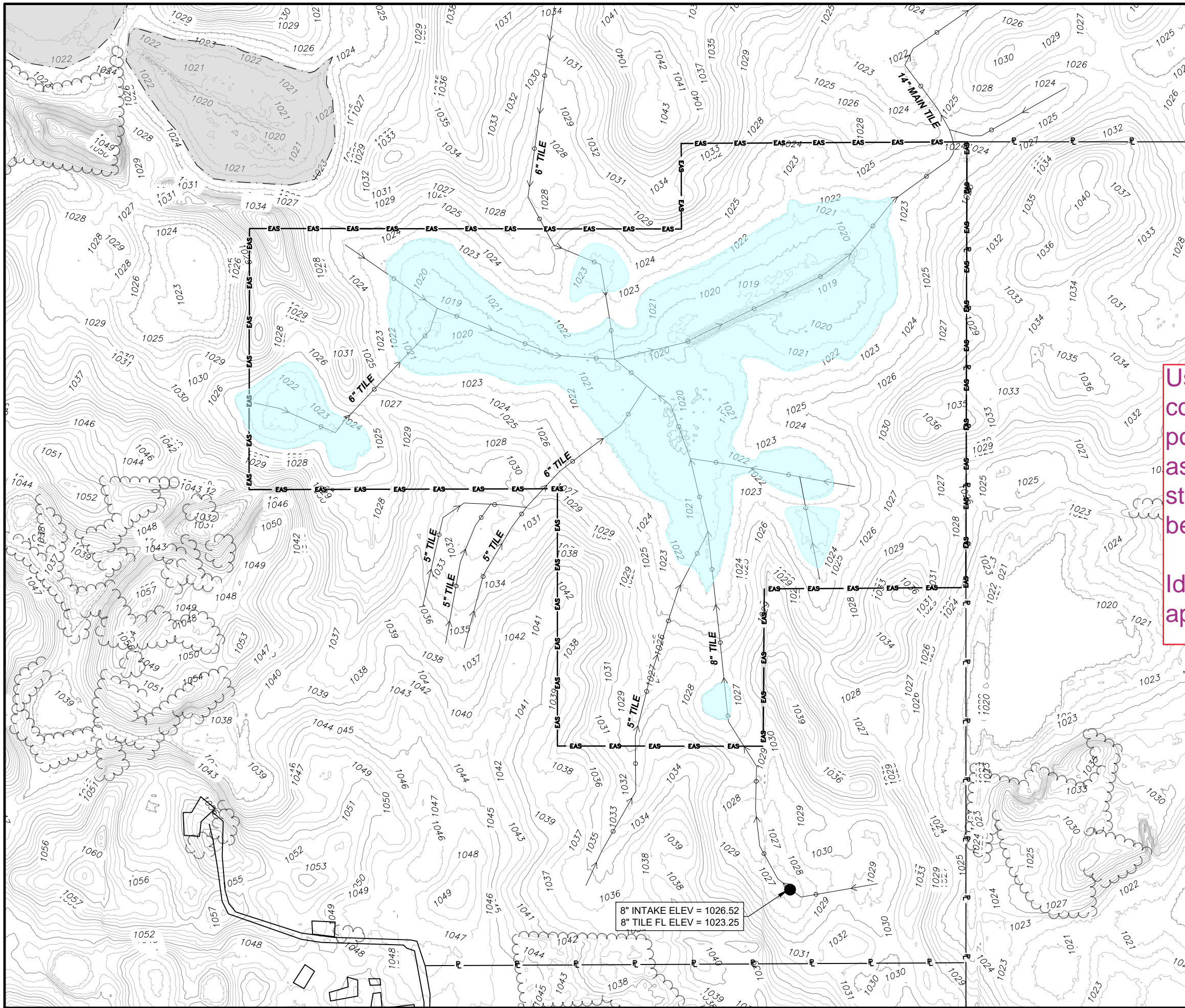


Subbasin 1
Acres: 66.9
Avg Slope: 7.8

Subbasin 2
Acres: 235
Avg Slope: 4.7

Subbasin 3
Acres: 132
Avg Slope: 4.2

Make a preliminary assessment of contributing drainage areas to known or assumed catchment areas.



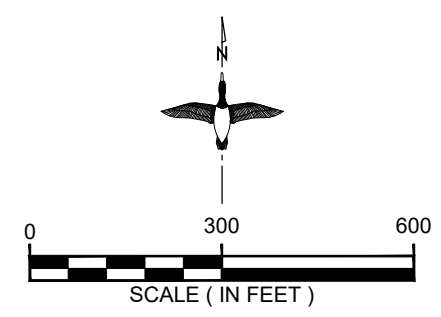
LEGEND

- EXISTING INTAKES
- EXISTING PRIVATE TILE
- EXISTING TREELINE
- APPROXIMATE PROPERTY LINE
- CONSERVATION EASEMENT
- PROPOSED POOL

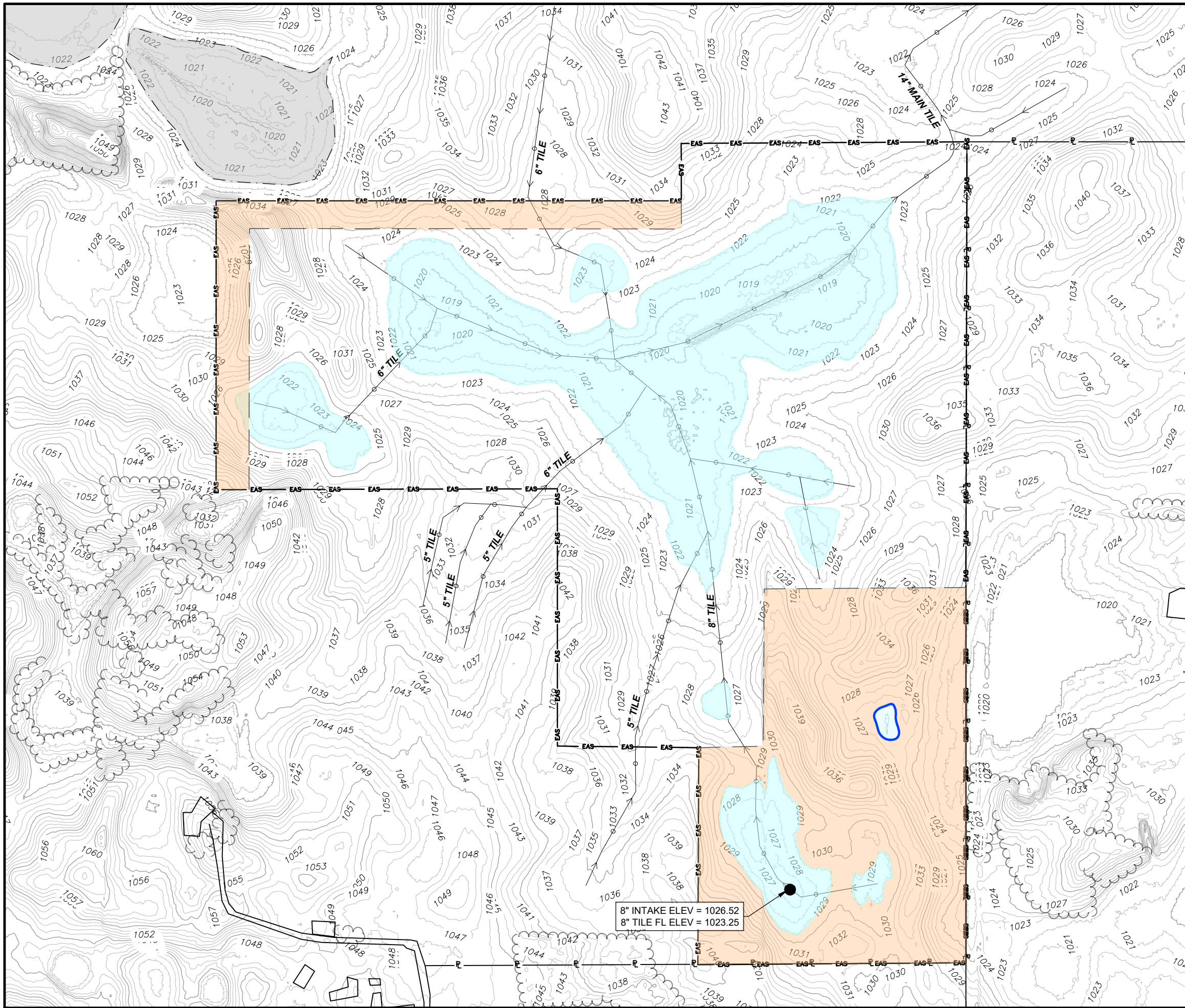
Using all of the information collected, draw in a potential ponded areas and associated restoration strategies that would need to be completed.

Identify issues and take appropriate actions

8" INTAKE ELEV = 1026.52
8" TILE FL ELEV = 1023.25











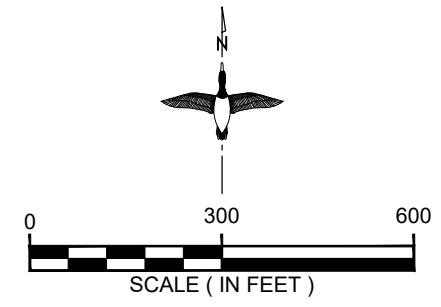
DESIGN DATE:	DESIGNED BY:	DESIGNED BY:	DESIGNED BY:	DESIGNED BY:
SURVEY DATE:	SURVEYED BY:	DRAWN BY:	CHECKED BY:	CHECKED BY:
HORIZ DATUM: NAD83	VERT DATUM: NAVD88	GEODETTIC CONTROL REF: MNDOT DISK*	CONTROL E.L.:	
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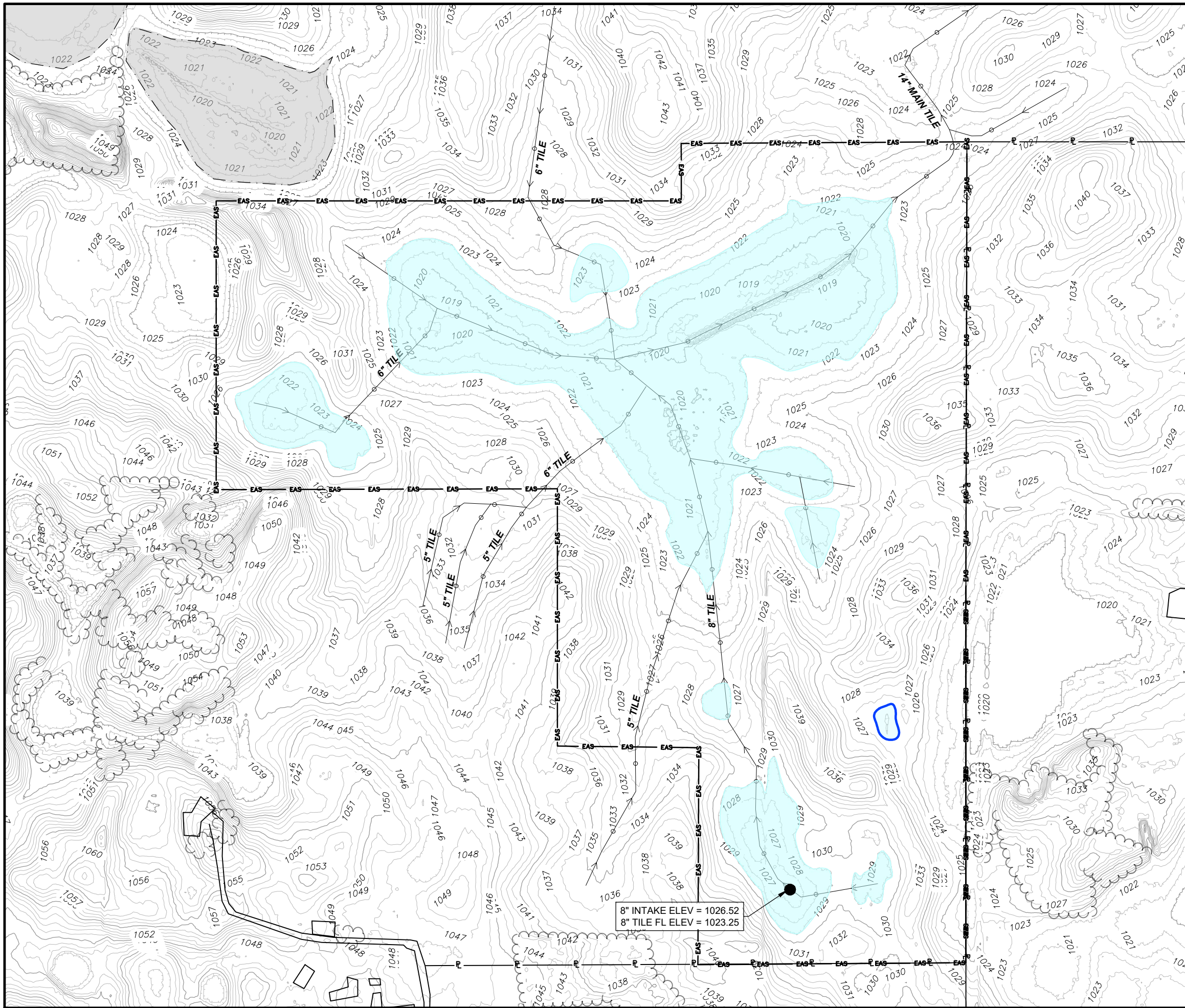
8" INTAKE ELEV = 1026.52
 8" TILE FL ELEV = 1023.25

LEGEND

-  EXISTING INTAKES
-  EXISTING PRIVATE TILE
-  EXISTING TREELINE
-  APPROXIMATE PROPERTY LINE
-  CONSERVATION EASEMENT
-  EXISTING FARMED WETLAND
-  PROPOSED POOL
-  ADDED AREA TO PROJECT



DESIGN DATE:		DESIGNED BY:	
SURVEY DATE:		DRAWN BY:	
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MARCH 2021 WETLAND TRAINING INCLASS ACTIVITY PRELIMINARY CONCEPT PLAN			
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LEGEND

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