



McHenry County
Zoning Board of Appeals - Zoning Hearing
AGENDA

November 13, 2025, 1:30 PM
County Board Conference Room
Administration Building, 667 Ware Rd., Woodstock, IL 60098

Pages

1. CALL TO ORDER
2. ROLL CALL
3. NEW BUSINESS / PUBLIC HEARING
 - 3.1 Z25-0085 Finzel Trust, A1-E1, Coral Twp 2
 - 3.2 Z25-0096 LJW, LLC, A1-E3, Hartland Twp 78
4. OLD BUSINESS
5. PUBLIC COMMENT
Topics unrelated to public hearing - 3-minute time limit per speaker
6. ANNOUNCEMENTS
7. ADJOURNMENT

Staff Report for the McHenry County Zoning Board of Appeals

Application: #Z25-0085

PIN: PINs 17-35-200-020, 17-35-200-019, 17-35-200-018, 17-35-200-017, 17-35-200-016, 17-35-200-015 and 17-35-200-014

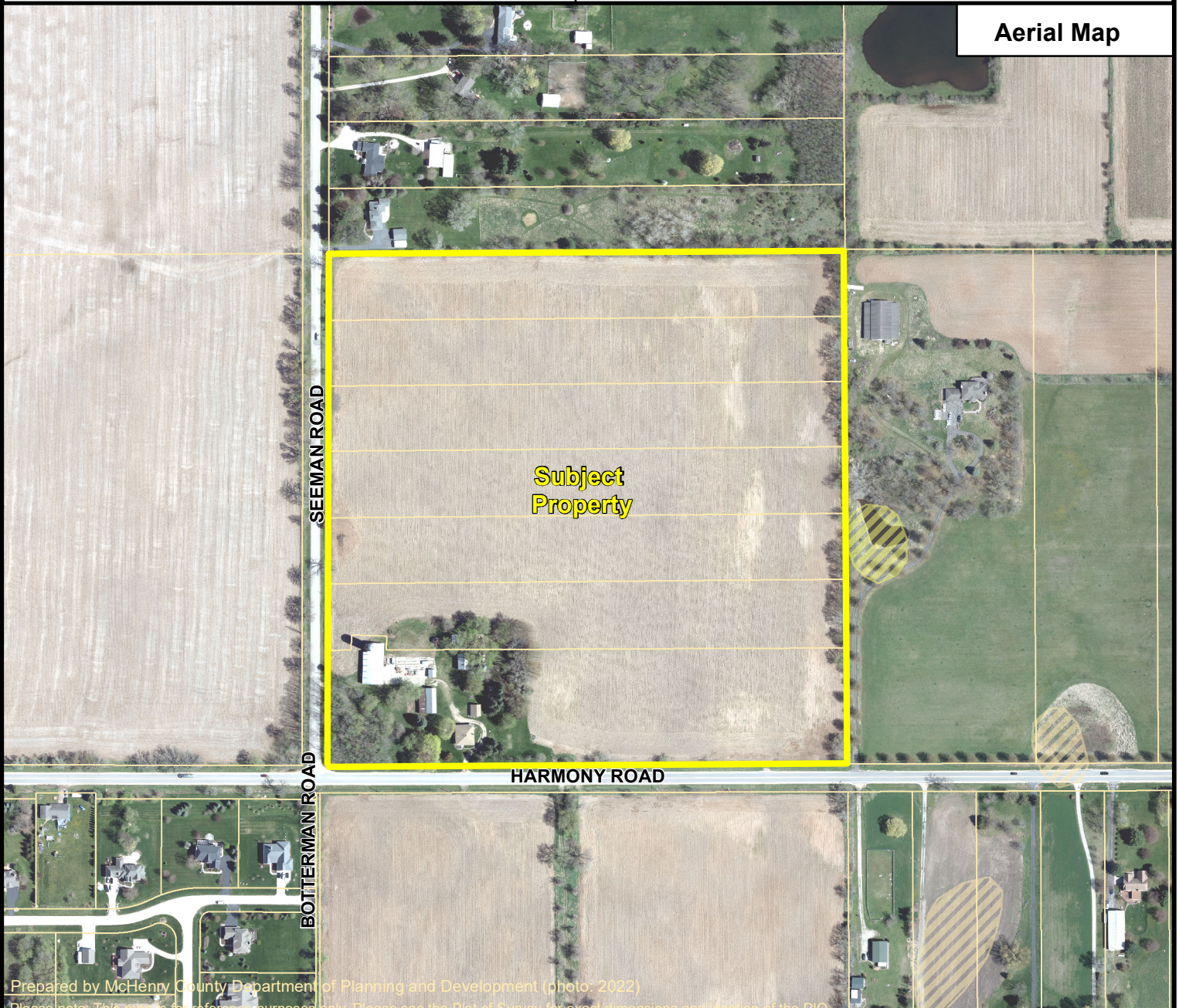
Address: 15218 Harmony Road, Huntley

Request: Reclassification from A-1 Agriculture District to E-1 Estate District.

Hearing: November 13, 2025

Applicants: Steven Finzel and Jean Turner

Location: The subject property is located northeast of the intersection of Harmony Road and Seeman Road, with a common address of 15218 Harmony Road, Huntley, Illinois, in Coral Township.



Elevation

(feet above sea level)

- 10-foot contours
- 2-foot contours

ADID Wetland Map 2005

- High Functional Value Wetland (hfw)
- High Quality Wetland (hqw)
- Wetland (w)
- Farmed Wetland (fw)

FEMA Flood Hazard Areas

- 0.2 % Annual Chance of Flood
- 1% Annual Chance of Flood
- Floodway

Feet 180 90 0 180 360
1 inch equals 371 feet



Staff Report for the McHenry County Zoning Board of Appeals

STAFF COMMENTS

The following comments and conclusions are based upon staff analysis and review prior to this hearing and are to be considered viable unless evidence is established to the contrary. Staff may have additional comments based upon the testimony presented during the public hearing.

BACKGROUND & REQUEST SUMMARY

The applicant is requesting a map amendment to rezone approximately forty (40) acres from the A-1 Agriculture District to the E-1 Estate District. The property, located at the northeast corner of the intersection of Harmony Road and Seeman Road, has already been subdivided by deed in accordance with the Plat Act into seven (7) individual lots ranging from five (5) acres to nine point nine (9.9) acres. The proposed rezoning will allow each parcel to be developed as a single-family residence, consistent with the estate and agricultural residential pattern of the surrounding area.

According to the plat of survey, the property currently contains a one-story frame residence with a detached frame garage, two (2) frame barns, one (1) frame and metal-clad barn, two (2) frame sheds, two (2) silos, and a windmill.

MCHENRY COUNTY UNIFIED DEVELOPMENT ORDINANCE

- The Applicant must meet the Approval Standards for Map Amendment, listed in §16.20.010.E.1 of the *McHenry County Unified Development Ordinance*.

STAFF ANALYSIS

Current Land Use & Zoning

The subject property is currently zoned A-1 Agriculture District. According to tax records, the southern portion is classified as homesite dwelling and contains residential structures, while the central and northern portions are classified as farmland and are used for row crop production. The proposed rezoning to the E-1 Estate District aligns with the district's requirements, which specify a minimum lot size of one (1) acre and at least one hundred and fifty (150) feet of road frontage. According to the plat of survey, the property meets these minimum standards.

Properties to the north, south, and west are zoned A-1 Agriculture and are utilized for both residential and agricultural purposes. To the east, properties are zoned E-3 Estate District, while those to the southwest are zoned E-1 Estate District with a Conditional Use Permit allowing fill within a floodplain to facilitate subdivision development.

2030 Comprehensive Plan Future Land Use map

The 2030 Comprehensive Plan Future Land Use map depicts this property as being developed with **Estate**.

2030 Comprehensive Plan & 2030 and Beyond Analysis

The text of the 2030 Comprehensive Plan and 2030 and Beyond Plan supports the reclassification to the E-1 Estate District. *(See comments below).*

McHenry County 2030 and Beyond, Adopted October 18, 2016—

Big Idea #1 Let's make our communities healthy, active, and green

"We can make it happen by promoting development that is compact, contiguous to, or located within municipalities in order to preserve rural landscapes while providing greater mobility choice for all residents." (p.12)

- The Village of Huntley is situated approximately one (1) mile from the subject property.
- The predominant land uses within a one-mile radius of the subject property include agricultural activities and single-family residences. These residences are located on properties zoned A-1 Agriculture and E-1 Estate Districts. Additionally, there are properties zoned E-3 Estate District to the east of the subject property.

Big Idea #2 Let's build on our strengths

"We can make it happen by preserving our wide array of housing choices and lot sizes – from rural to urban." (p.14)

- The proposed reclassification, if granted, would allow for an increase in residential density. While this represents a change in zoning, the resulting development would remain consistent with the existing pattern and zoning designations in the surrounding area.

Big Idea #3 Let's grow smarter

"We can make it happen by focusing development that is compact, contiguous to, or located within municipalities, and away from areas designated for agriculture and lacking infrastructure and services." (p. 16)

- As noted above, the subject property is located approximately one (1) mile from the Village of Huntley.
- Furthermore, the proposed rezoning would allow residential development on parts of the property currently classified as farmland. However, this growth is contained within the parcel and does not extend into surrounding agricultural land. It directs development to an area with existing residences, balancing expansion with preservation of the agricultural character and development pattern of the area.

Big Idea #4 Let's expand our economy

- No applicable text.

McHenry County 2030 Comprehensive Plan, Adopted April 20, 2010

Community Character & Housing

Objective: *"Promote a mix of housing types and values to meet the needs of all segments of the population."* (p. 15)

- Reclassification to the E-1 Estate District would maintain the rural character of the area while allowing for low-density residential use that is compatible with the surrounding landscape.

Agricultural Resources

Objective: *"Maintain and protect the most productive agricultural lands, where appropriate, by discouraging nonagricultural growth in these areas."* (p. 29)

- Reclassification of the subject property would not prevent agricultural use, as it remains permitted in all zoning districts, but it would allow for limited residential development that aligns with the existing land use in the surrounding area.

Greenways, Open Space & Natural Resources

Objective: *"Promote land uses that minimize the impact on land, water, energy, and other natural resources."* (p. 43)

- The McHenry-Lake County Soil and Water Conservation District Natural Resources Inventory was received. The report indicates that the subject property is comprised of D2 geological limitations which has a moderately low potential for aquifer contamination. It does not contain soils with high leaching potential for fertilizers, nor does it contain highly permeable soils. For further details, please refer to the attached NRI Letter #L25-082-4743.
- The subject property is not located within the Sensitive Aquifer Recharge Area (SARA).

Water Resources

Objective: *"Preserve, improve and replenish the quality and quantity of existing ground water resources."* (p. 63)

- The proposed reclassification does not involve any new improvements that would increase impervious surface area.

Economic Development

- No applicable text.

Infrastructure

- No applicable text.

Future Land Use

Objective: *"Promote increased density and compact, contiguous development."* (p. 125)

- The proposed reclassification would result in a slight increase in residential density that remains compatible with the character of the area.

- This reclassification supports compact and contiguous development by building on existing residential patterns rather than encouraging isolated development in rural areas.

STAFF ASSESSMENT

The applicant seeks to rezone approximately forty (40) acres from the A-1 Agriculture District to the E-1 Estate District. The property has been subdivided into seven (7) individual lots, and the proposed rezoning would permit single-family residential development consistent with the surrounding estate and agricultural residential character.

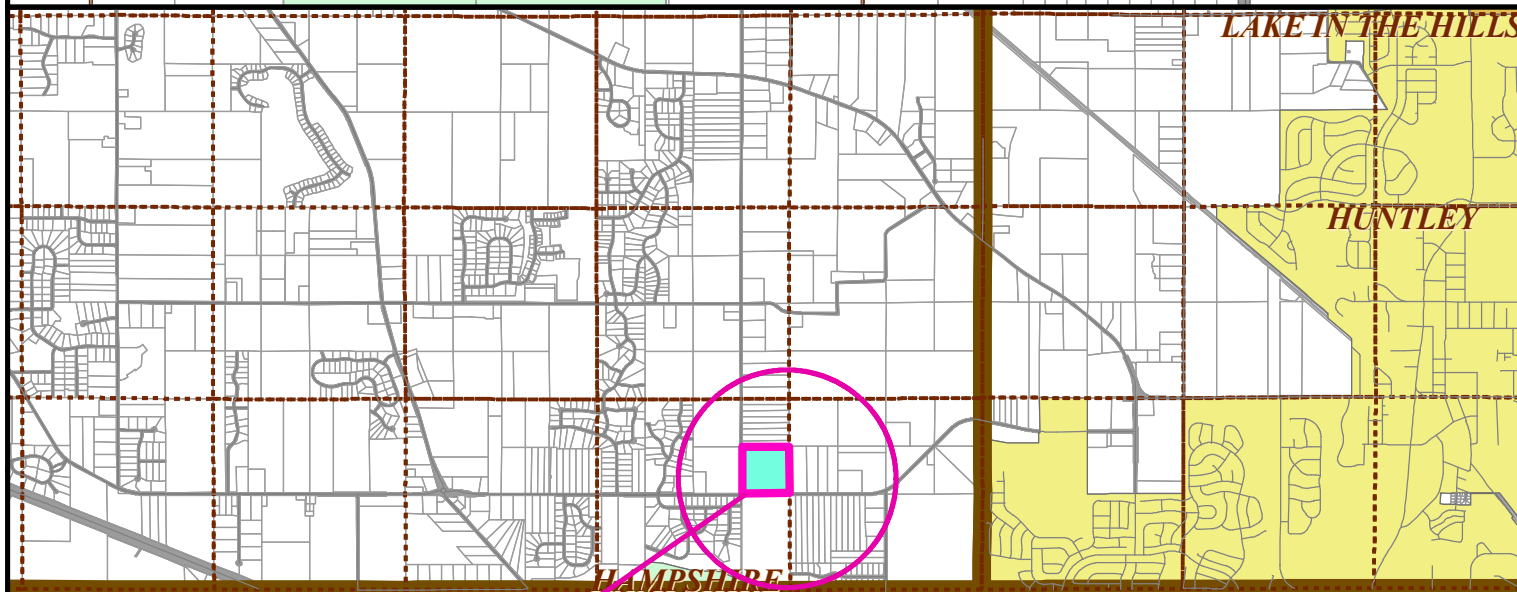
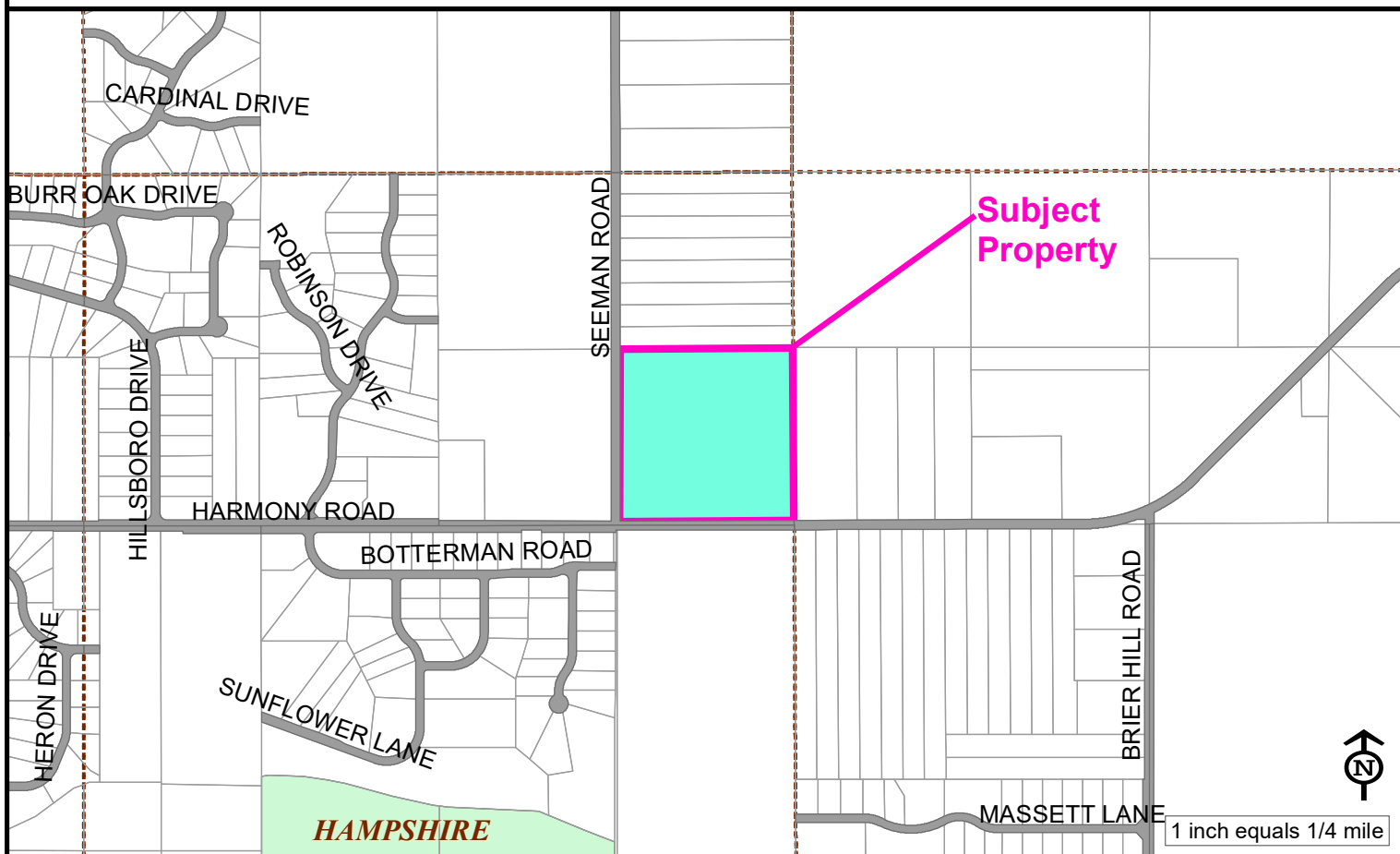
This request aligns with the existing land use pattern and supports the Comprehensive Plan's Estate designation. The property is not located within a Sensitive Aquifer Recharge Area (SARA), and no additional development is proposed at this time. Staff has reviewed the request and offers no objections.

Report prepared October 17, 2025, by Melody Jacobson, Planner - McHenry County Department of Planning & Development.

Approval Standards for Zoning Amendments. The Zoning Board of Appeals recommendation and the County Board decision shall consider the following standards. However, the Zoning Board of Appeals' recommendation and the County Board's decision on any zoning text or map amendment is not controlled by any one factor under the following standards, but rather the approval of amendments is based on a balancing of the factors under each standard.

1. *Approval Standards for Map Amendments.*

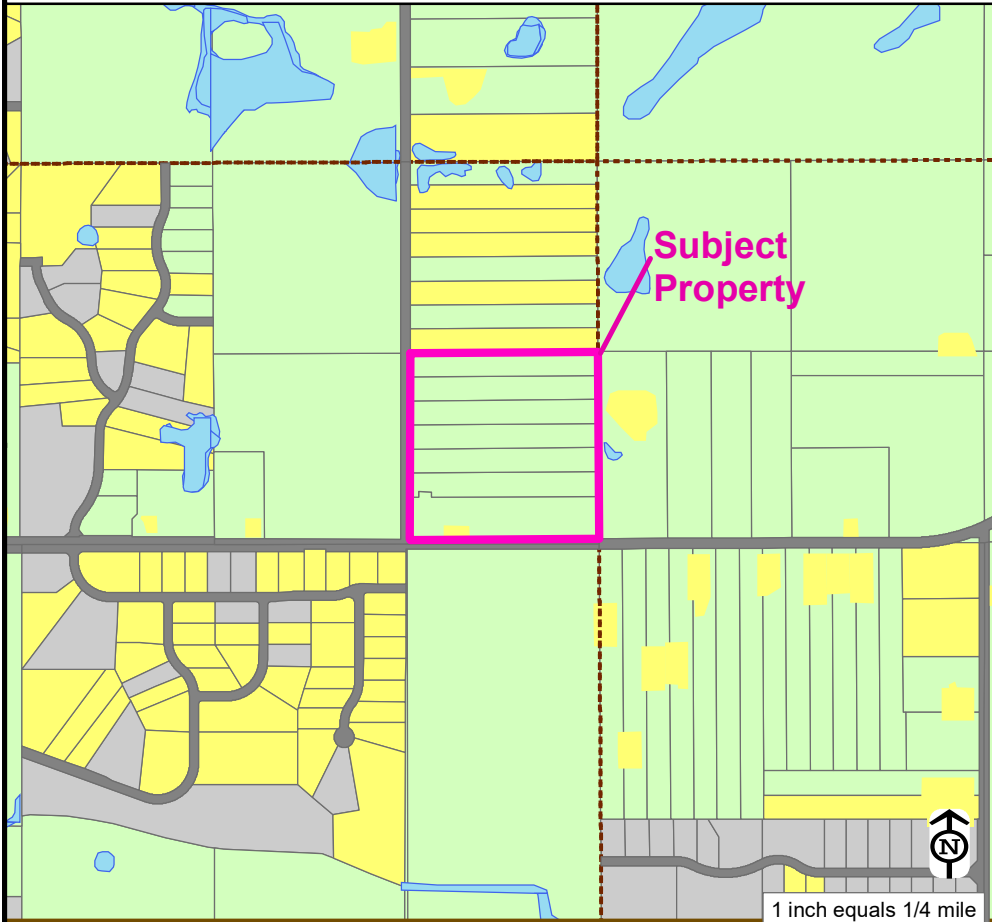
- a. The compatibility of the proposed zoning with the existing use and zoning of nearby property.
- b. The extent to which property values of the subject property are diminished by the existing zoning.
- c. The extent to which the public health, safety, and welfare of the public are promoted by the existing zoning.
- d. The relative gain to the public, as compared to the hardship imposed upon the applicant, if the proposed zoning is denied.
- e. The suitability of the property for the purposes for which it is presently zoned.
- f. The length of time the property has been vacant as zoned considered in the context of land development in the vicinity of the subject property.
- g. The community need for the proposed use.
- h. The consistency of the proposed amendment with the adopted comprehensive plan and the appropriateness of the comprehensive plan to the subject property.



Subject
Property

K A N E C O U N T Y

Current Land Use Map



Current Land Use

Agriculture/ Single-Family Residential

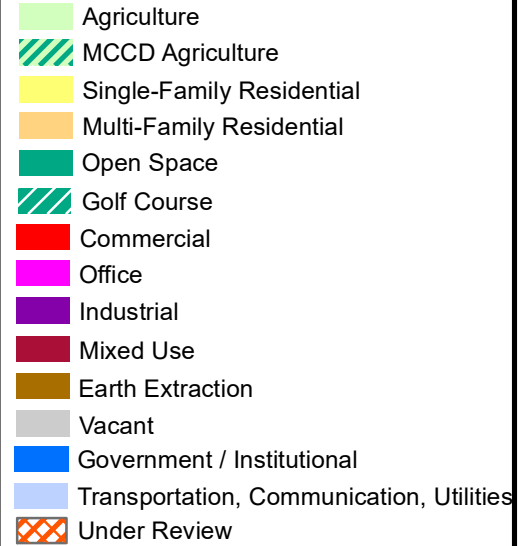
Adjacent Land Use(s)

North: Single-Family Residential

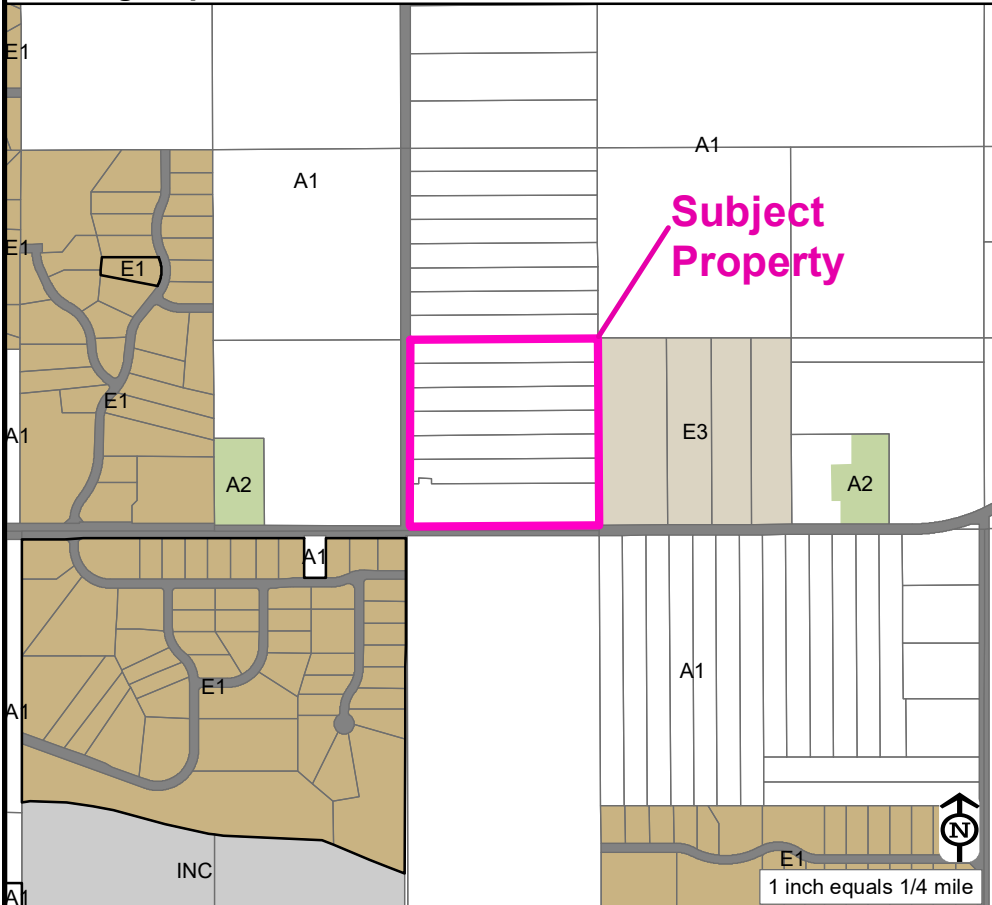
South: Agriculture

East: Agriculture/ Single-Family Residential

West: Agriculture



Zoning Map



Current Zoning

A-1 Agriculture

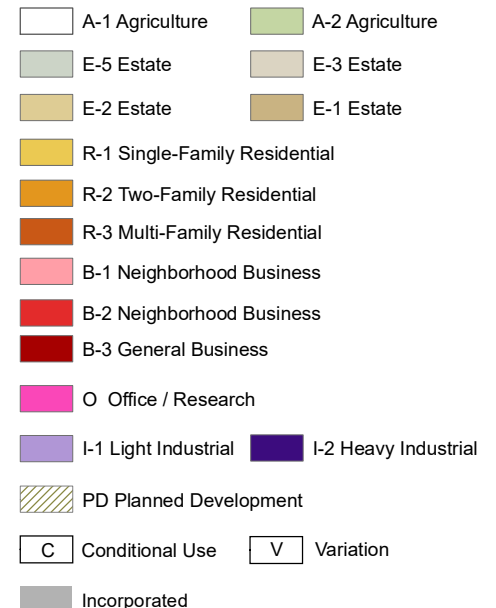
Adjacent Zoning

North: A-1 Agriculture

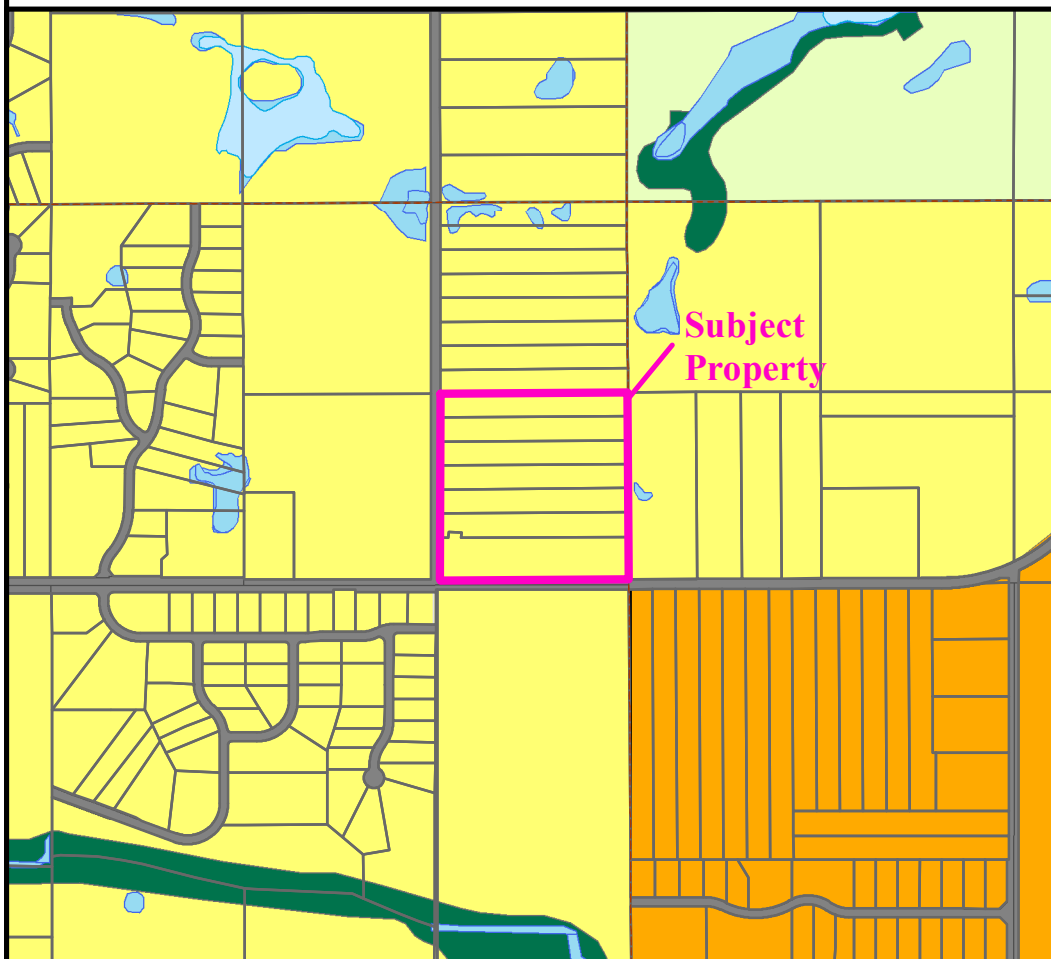
South: A-1 Agriculture

East: E-3 Estate

West: A-1 Agriculture



McHenry County 2030 Comprehensive Plan Future Land Use Map



Future Land Use Map Designation

Estate

- Agricultural
 - Open Space
 - Environmentally Sensitive Area
 - Estate
 - Isolated Estate
 - Residential
 - Isolated Residential
 - Retail
 - Mixed Use
 - Office, Research, Industrial
 - Gov't, Institutional, Utilities
 - TOD Existing Rail Station
 - TOD Future Rail Station
 - Active Earth Extraction Site
 - Municipality
- Scale: 1 inch = 1/4 mile



Municipal / Township Plan Designations

<u>Coral Township:</u>	Estate
<u>Huntley:</u>	Rural Preservation
<u>Hampshire:</u>	N/A

McHenry County 2030 Comprehensive Plan — Text Analysis

Land Use

ESTATE - includes existing and proposed areas for single-family residential uses at gross densities of one to five acres per dwelling unit. Estate land use is generally designated in areas that are not projected to have access to public sewer and water. Where appropriate, conservation design is encouraged in order to cluster lots and maintain open space within estate developments. Increased estate densities are encouraged where appropriate; however, estate development in close proximity to a municipality should take into consideration that municipality's densities (p. 134).

Sensitive Aquifer Recharge Areas

The site is NOT located in a zone with elevated contamination potential.

Sensitive Aquifer Recharge Areas (SARA)



- Sensitive Recharge Area

PARCEL 1:
Part of the Southwest Quarter of the Northeast Quarter of Section 35, Township 43 North, Range 6 East of the Third Principal Meridian, described as follows: Commencing at the Southeast Corner of the said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 20 minutes 58 seconds West along the East line thereof, 1,153.98 feet to a line 185.00 feet South of and parallel with the North line of the said Southwest Quarter of the Northeast Quarter as monumented on the Place of Beginning; thence South 89 degrees 45 minutes 45 seconds West along said parallel line, 1,320.39 feet to the West line of said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 10 minutes 09 seconds West along said West line, 165.00 feet to the Northwest corner thereof; thence North 88 degrees 45 minutes 45 seconds East along the North line thereof as monumented, 1,320.39 feet to the Northeast; thence South 00 degrees 20 minutes 58 seconds East along the East line thereof, 165.00 feet to the Place of Beginning in McHenry County, Illinois.

PARCEL 2:
Part of the Southwest Quarter of the Northeast Quarter of Section 35, Township 43 North, Range 6 East of the Third Principal Meridian, described as follows: Commencing at the Southeast Corner of the said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 20 minutes 58 seconds West along the East line thereof, 888.01 feet to a line 330.00 feet South of and parallel with the North line of the said Southwest Quarter of the Northeast Quarter as monumented on the Place of Beginning; thence South 89 degrees 45 minutes 45 seconds West along said parallel line, 1,321.41 feet to the West line of said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 10 minutes 09 seconds West along said West line, 165.00 feet to a line 185.00 feet South of and parallel with the said North line of the said Southwest Quarter of the Northeast Quarter; thence North 89 degrees 45 minutes 45 seconds East along said parallel line, 1,320.39 feet to the East line thereof; thence South 00 degrees 20 minutes 58 seconds East along said East line, 165.00 feet to the Place of Beginning in McHenry County, Illinois.

PARCEL 3:
Part of the Southwest Quarter of the Northeast Quarter of Section 35, Township 43 North, Range 6 East of the Third Principal Meridian, described as follows: Commencing at the Southeast Corner of the said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 20 minutes 58 seconds West along the East line thereof, 823.04 feet to a line 480.00 feet South of and parallel with the North line of the said Southwest Quarter of the Northeast Quarter as monumented on the Place of Beginning; thence South 89 degrees 45 minutes 45 seconds West along said parallel line, 1,321.41 feet to the West line of

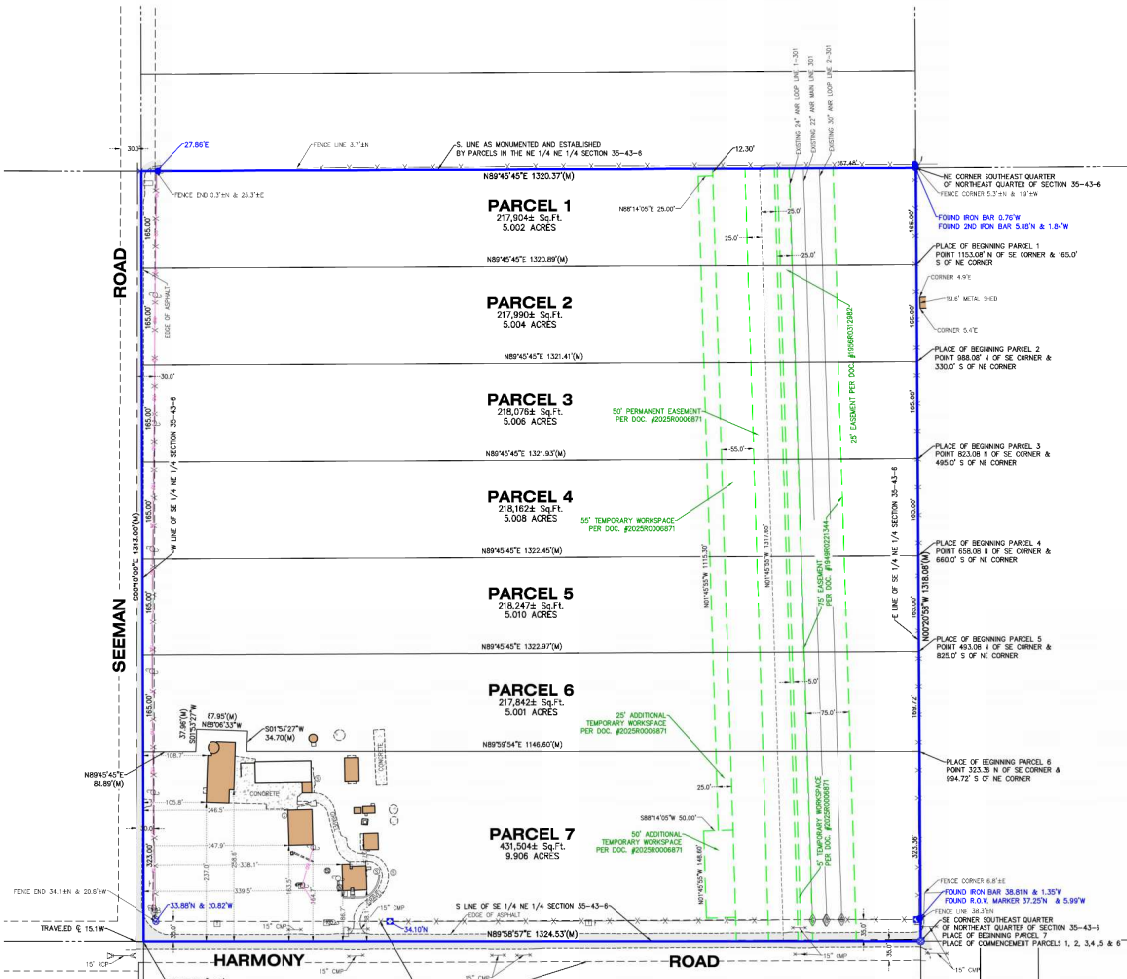
said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 10 minutes 09 seconds West along said West line, 165.00 feet to a line 330.00 feet South of and parallel with the said North line of the said Southwest Quarter of the Northeast Quarter; thence North 88 degrees 45 minutes 45 seconds East along said parallel line, 1,321.41 feet to the East line thereof; thence South 00 degrees 20 minutes 58 seconds East along said East line, 165.00 feet to the Place of Beginning in McHenry County, Illinois.

PARCEL 4:
Part of the Southwest Quarter of the Northeast Quarter of Section 35, Township 43 North, Range 6 East of the Third Principal Meridian, described as follows: Commencing at the Southeast Corner of the said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 20 minutes 58 seconds West along the East line thereof, 658.08 feet to a line 660.00 feet South of and parallel with the North line of the said Southwest Quarter of the Northeast Quarter as monumented on the Place of Beginning; thence South 89 degrees 45 minutes 45 seconds West along said parallel line, 1,322.45 feet to the West line of said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 10 minutes 09 seconds West along said West line, 165.00 feet to a line 480.00 feet South of and parallel with the said North line of the said Southwest Quarter of the Northeast Quarter; thence North 89 degrees 45 minutes 45 seconds East along said parallel line, 1,321.41 feet to the East line thereof; thence South 00 degrees 20 minutes 58 seconds East along said East line, 165.00 feet to the Place of Beginning in McHenry County, Illinois.

PARCEL 5:
Part of the Southwest Quarter of the Northeast Quarter of Section 35, Township 43 North, Range 6 East of the Third Principal Meridian, described as follows: Commencing at the Southeast Corner of the said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 20 minutes 58 seconds West along the East line thereof, 493.08 feet to a line 825.00 feet South of and parallel with the North line of the said Southwest Quarter of the Northeast Quarter as monumented on the Place of Beginning; thence South 89 degrees 45 minutes 45 seconds West along said parallel line, 1,322.45 feet to the West line of said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 10 minutes 09 seconds West along said West line, 165.00 feet to a line 660.00 feet South of and parallel with the said North line of the said Southwest Quarter of the Northeast Quarter; thence North 89 degrees 45 minutes 45 seconds East along said parallel line, 1,322.45 feet to the East line thereof; thence South 00 degrees 20 minutes 58 seconds East along said East line, 165.00 feet to the Place of Beginning in McHenry County, Illinois.

PARCEL 6:
Part of the Southwest Quarter of the Northeast Quarter of Section 35, Township 43 North, Range 6 East of the Third Principal Meridian, described as follows: Commencing at the Southeast Corner of the said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 20 minutes 58 seconds West along the East line thereof, 323.36 feet to a point 994.71 feet South of the Northwest corner of the said Southwest Quarter of the Northeast Quarter as monumented on the Place of Beginning; thence South 89 degrees 59 minutes 51 seconds West, 1,146.60 feet; thence North 01 degrees 53 minutes 27 seconds East, 34.70 feet; thence North 89 degrees 05 minutes 31 seconds West, 87.95 feet; thence South 01 degrees 53 minutes 27 seconds West, 37.96 feet to a line 190.00 feet South of and parallel with the said North line of the said Southwest Quarter of the Northeast Quarter; thence South 89 degrees 45 minutes 45 seconds West along said parallel line, 88.89 feet to the West line of said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 10 minutes 09 seconds West along said West line, 165.00 feet to a line 185.00 feet South of and parallel with the said North line of the said Southwest Quarter of the Northeast Quarter; thence North 89 degrees 45 minutes 45 seconds East along said parallel line, 1,322.97 feet to the East line thereof; thence South 00 degrees 20 minutes 58 seconds East along said East line, 169.72 feet to the Place of Beginning in McHenry County, Illinois.

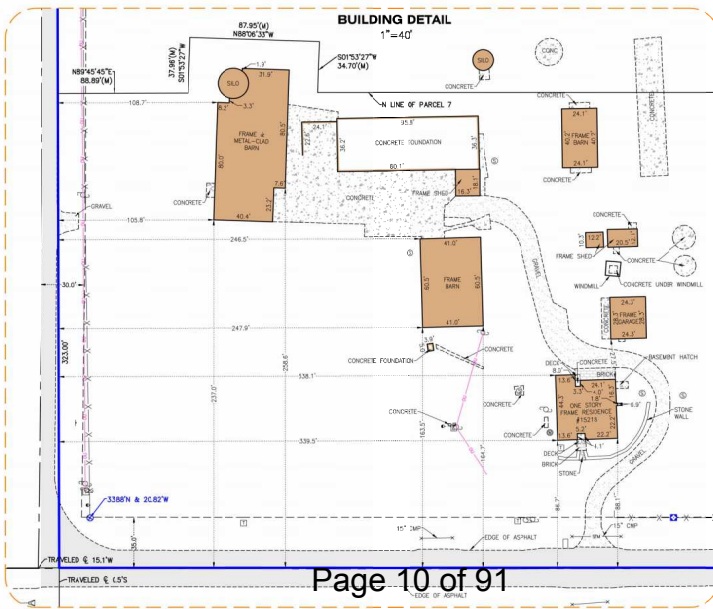
PARCEL 7:
Part of the Southwest Quarter of the Northeast Quarter of Section 35, Township 43 North, Range 6 East of the Third Principal Meridian, described as follows: Beginning at the Southeast Corner of said Southwest Quarter of the Northeast Quarter; thence South 89 degrees 45 minutes 45 seconds West along the South line thereof, 1324.53 feet to the West line of said Southwest Quarter of the Northeast Quarter; thence North 00 degrees 10 minutes 09 seconds West along said West line, 323.00 feet to a line 990.00 feet South of and parallel with the North line of said Southwest Quarter of the Northeast Quarter as monumented on the Place of Beginning; thence North 01 degrees 53 minutes 27 seconds East, 37.96 feet; thence North 89 degrees 05 minutes 31 seconds West, 87.95 feet; thence South 01 degrees 53 minutes 27 seconds West, 34.70 feet; thence North 89 degrees 45 minutes 45 seconds East along said parallel line, 1,322.97 feet to the East line thereof; thence South 00 degrees 20 minutes 58 seconds East along said East line, 323.36 feet to the Place of Beginning in McHenry County, Illinois.



LEGEND	
+	DOWN GUY
⊕	ELECTRIC METER
⊕	PLUMBED DNO SECTION
⊕	FOUND IRON BAR
⊕	FOUND IRON PIPE
⊕	FOUND MAG. NAIL
⊕	FOUND MONUMENT
⊕	FOUND ROW MARKER
⊕	GAS PIPELINE MARKER
⊕	MAL BOX
⊕	SEPTIC LID
⊕	SE IRON BAR
⊕	SE MAG. NAIL
⊕	SIDN
⊕	TELEPHONE RISER
⊕	UTILITY POLE
⊕	WELL
(M)	MEASURED
(D)	DEED

100' 0' 100' 200'
SCALE: 1" = 100'

CLIENT: HINGWOOD HOLDINGS
DRAWN BY: PJD CHECKED BY: APG
SCALE: 1"=100' SEC. 35 T. 43 R. 06E
BASIS OF BEARING: E. EAST ZONE NAD83 (2011)
E.L.N.: 17-35-200-011
JOB NO.: 250-722
FIELDWORK COMP. BK. PG.
ALL DISTANCES SHOWN IN FEET AND DECIMAL FEET
PARTS THEREOF CORRECTED TO 80° F.



STATE OF ILLINOIS) S.S.
COUNTY OF McHENRY)

I hereby state that we have plat the premises above described, and that the plat herein is a true representation of the said description.
This is not a Boundary Survey
Dated at Woodstock, McHenry County, Illinois, 08/11 A.D. 20 25.
Vanderstappen Land Surveying, Inc.
Design Firm No. 184-002/92

By: *Matthew P. Gruninger*
Illinois Professional Land Surveyor No. 3867

McHENRY~LAKE COUNTY SOIL & WATER CONSERVATION DISTRICT

NATURAL RESOURCES INFORMATION REPORT

25-082-4743

October 8, 2025



This report has been prepared for:
Yolanda D. Finzel Trust

Contact Person:
Tyler M. Wilke

PREPARED BY:
McHENRY-LAKE COUNTY SOIL & WATER CONSERVATION
DISTRICT
1648 S. EASTWOOD DR.
WOODSTOCK, IL 60098
PHONE: (815) 338-0444

www.mchenryswcd.org

The McHenry-Lake County Soil & Water Conservation District
is an equal opportunity provider and employer.

EXECUTIVE SUMMARY OF NRI REPORT #25-0182-4743

It is the opinion of the McHenry-Lake County Soil and Water Conservation District Board of Directors that this report as summarized on these pages are pertinent to the requested zoning change.





Picture 1: Northwest corner looking southeast. (Due to the existing corn crop, it was difficult to get a representative site picture.)

Groundwater Contamination Potential and Recharge Areas:



Aquifer Sensitivity Map (*This is the area beneath the soil profile down to bedrock)
The Geologic features map indicates the parcel is comprised of D2 geologic limitations which has a moderately-low aquifer contamination potential.

Sensitive Aquifer Recharge Areas (Includes the soil profile and underlying geology).
The Sensitive Aquifer Recharge Map indicates the parcel is not within an area designated as Sensitive Aquifer Recharge.

Soil Leachability Map (This is only the soil profile within the parcel from the surface down to approx. 5 feet).
The Soil Leachability Index indicates the parcel does not contain high leaching potential for fertilizers.

Soil Permeability Map (This is only the soil profile within the parcel from the surface down to approx. 5 feet. Soil permeability is a reflection of the speed in which water (with or without pollutants) can move through the soil profile.)
The USDA-NRCS Soil Survey Map of the area indicates there are no highly permeable soils that allow water to rapidly move through the soil profile, on the parcel.

Soil Limitations (This evaluates the parcel from the surface down to approximately 5 feet.):

Dwellings with Basements

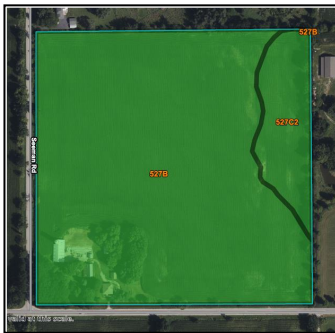
Dwellings are single-family houses of three stories or less. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The NRCS Soils Survey indicates there are no very limited soils on the parcel.

Dwellings without Basements

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The NRCS Soils Survey indicates there are no very limited soils on the parcel.

Erosion Ratings

The NRCS Soils Survey indicates 4.5 acres or 11.7% of the parcel contains highly erodible soils.



Prime Farmland Soils

The Natural Resources Conservation Service (NRCS) Soil Survey indicates the entire parcel is comprised of prime farmland soils.

Hydric Soils

The NRCS Soil Survey indicates there are no hydric soils on the parcel.

Floodplain Information:

The Flood Insurance Rate Map

Indicates the parcel is outside of the 100-year floodplain.

Flood of Record Map (Hydrologic Atlas)

The Flood of Record Map for this area indicates there has been no previous flooding on the parcel.

Wetland Information:



USDA-NRCS Wetland Inventory

The NRCS Wetlands Inventory indicates there are 0.05 acres of wetlands on the parcel (identified in green).



ADID Wetland Inventory

The ADID Wetland Study indicates 0.05 acres of wetland C 227 on the parcel (identified in light green).

Flooding Frequency

The NRCS Soil Survey indicates that flooding is not probable. The chance of flooding is nearly 0% in any year. Flooding occurs less than once in 500 years.

Ponding Frequency

The NRCS Soil Survey indicates that ponding is not probable. The chance of ponding is nearly 0% in any year.

Cultural Resources: None identified

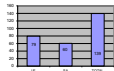
Preserved or Recognized Ecological Sites: None identified

Woodlands: There are existing mature trees in the field borders and around the existing structures.

Agricultural Areas: Office Maps indicate there are no State designated agricultural areas on the parcel in question.

Land Evaluation Site Assessment (LESA)

The Land Evaluation and Site Assessment system indicates this parcel has a **moderate impact to existing land use and resources.**



Conservation Design: The parcel does not meet the automatic or cumulative triggers for conservation design.

The McHenry-Lake County Soil & Water Conservation District Board of Directors has no immediate concerns regarding this zoning change.

IN THE MATTER OF THE APPLICATION OF
YOLANDA D. FINZEL TRUST, OWNER
FOR AN AMENDMENT OF THE UNIFIED DEVELOPMENT
ORDINANCE OF McHENRY COUNTY, ILLINOIS FOR
A RECLASSIFICATION

)
)
) LEGAL NOTICE OF PUBLIC HEARING
) Z25-0085
)

Notice is hereby given in compliance with the McHenry County Unified Development Ordinance, that a public hearing will be held before the **McHenry County Zoning Board of Appeals**, in connection with this Ordinance, which would result in a **RECLASSIFICATION** for the following described real estate:

PARCEL 1:

PART OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 20 MINUTES 58 SECONDS WEST ALONG THE EAST LINE THEREOF, 1,153.08 FEET TO A LINE 165.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER AS MONUMENTED AND THE PLACE OF BEGINNING; THENCE SOUTH 89 DEGREES 45 MINUTES 45 SECONDS WEST ALONG SAID PARALLEL LINE, 1,320.89 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 10 MINUTES 09 SECONDS WEST ALONG SAID WEST LINE, 165.00 FEET TO THE NORTHWEST CORNER THEREOF; THENCE NORTH 89 DEGREES 45 MINUTES 45 SECONDS EAST ALONG THE NORTH LINE THEREOF AS MONUMENTED, 1,320.37 FEET TO THE NORTHEAST THEREOF; THENCE SOUTH 00 DEGREES 20 MINUTES 58 SECONDS EAST ALONG THE EAST LINE THEREOF, 165.00 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

PARCEL 2:

PART OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 20 MINUTES 58 SECONDS WEST ALONG THE EAST LINE THEREOF, 988.08 FEET TO A LINE 330.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER AS MONUMENTED AND THE PLACE OF BEGINNING; THENCE SOUTH 89 DEGREES 45 MINUTES 45 SECONDS WEST ALONG SAID PARALLEL LINE, 1,321.41 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER, THENCE NORTH 00 DEGREES 10 MINUTES 09 SECONDS WEST ALONG SAID WEST LINE, 165.00 FEET TO A LINE 165.00 FEET SOUTH OF AND PARALLEL WITH THE SAID NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER, THENCE NORTH 89 DEGREES 45 MINUTES 45 SECONDS EAST ALONG SAID PARALLEL LINE, 1,320.89 FEET TO THE EAST LINE THEREOF, THENCE SOUTH 00 DEGREES 20 MINUTES 58 SECONDS EAST ALONG SAID EAST LINE, 165.00 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

PARCEL 3:

PART OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 20 MINUTES 58 SECONDS WEST ALONG THE EAST LINE THEREOF, 823.08 FEET TO A LINE 495.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER AS MONUMENTED AND THE PLACE OF BEGINNING; THENCE SOUTH 89 DEGREES 45 MINUTES 45 SECONDS WEST ALONG SAID PARALLEL LINE, 1,321.41 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 10 MINUTES 09 SECONDS WEST ALONG SAID WEST LINE, 165.00 FEET TO A LINE 330.00 FEET SOUTH OF AND PARALLEL WITH THE SAID NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER, THENCE NORTH 89 DEGREES 45 MINUTES 45 SECONDS EAST ALONG SAID PARALLEL LINE, 1,321.41 FEET TO THE EAST LINE THEREOF, THENCE SOUTH 00 DEGREES 20 MINUTES 58 SECONDS EAST ALONG SAID EAST LINE, 165.00 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

PARCEL 4:

PART OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 20 MINUTES 58 SECONDS WEST ALONG THE EAST LINE THEREOF, 658.08 FEET TO A LINE 660.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE SAID SOUTHEAST QUARTER OF THE

NORTHEAST QUARTER AS MONUMENTED AND THE PLACE OF BEGINNING; THENCE SOUTH 89 DEGREES 45 MINUTES 45 SECONDS WEST ALONG SAID PARALLEL LINE, 1,322.45 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 10 MINUTES 09 SECONDS FEET ALONG SAID WEST LINE, 165.00 FEET TO A LINE 495.00 FEET SOUTH OF AND PARALLEL WITH THE SAID NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 89 DEGREES 45 MINUTES 45 SECONDS EAST ALONG SAID PARALLEL LINE, 1,321.93 FEET TO THE EAST LINE THEREOF; THENCE SOUTH 00 DEGREES 20 MINUTES 58 SECONDS EAST ALONG SAID EAST LINE, 165.00 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

PARCEL 5:

PART OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 20 MINUTES 58 SECONDS WEST ALONG THE EAST LINE THEREOF, 493.08 FEET TO A LINE 825.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER AS MONUMENTED AND THE PLACE OF BEGINNING; THENCE SOUTH 89 DEGREES 45 MINUTES 45 SECONDS WEST ALONG SAID PARALLEL LINE, 1,322.97 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 10 MINUTES 09 SECONDS WEST ALONG SAID WEST LINE, 165.00 FEET TO A LINE 660.00 FEET SOUTH OF AND PARALLEL WITH THE SAID NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 89 DEGREES 45 MINUTES 45 SECONDS EAST ALONG SAID PARALLEL LINE, 1,322.45 FEET TO THE EAST LINE THEREOF; THENCE SOUTH 00 DEGREES 20 MINUTES 58 SECONDS EAST ALONG SAID EAST LINE, 165.00 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

PARCEL 6:

PART OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER, THENCE NORTH 00 DEGREES 20 MINUTES 58 SECONDS WEST ALONG THE EAST LINE THEREOF, 323.36 FEET TO A POINT 994.72 FEET SOUTH OF THE NORTHEAST CORNER OF THE SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER AS MONUMENTED AND THE PLACE OF BEGINNING; THENCE SOUTH 89 DEGREES 59 MINUTES 54 SECONDS WEST, 1,146.60 FEET; THENCE NORTH 01 DEGREE 53 MINUTES 27 SECONDS EAST, 34.70 FEET; THENCE NORTH 88 DEGREES 06 MINUTES 33 SECONDS WEST, 87.95 FEET; THENCE SOUTH 01 DEGREE 53 MINUTES 27 SECONDS WEST, 37.96 FEET TO A LINE 990.00 SOUTH AND PARALLEL WITH THE SAID NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE SOUTH 89 DEGREES 45 MINUTES 45 SECONDS WEST ALONG SAID PARALLEL LINE, 88.89 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 10 MINUTES 09 SECONDS WEST ALONG SAID WEST LINE, 165.00 FEET TO A LINE 825.00 FEET SOUTH OF AND PARALLEL WITH THE SAID NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 89 DEGREES 45 MINUTES 45 SECONDS EAST ALONG SAID PARALLEL LINE, 1,322.97 FEET TO THE EAST LINE THEREOF; THENCE SOUTH 00 DEGREES 20 MINUTES 58 SECONDS EAST ALONG SAID EAST LINE, 169.72 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

PARCEL 7:

PART OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE SOUTH 89 DEGREES 58 MINUTES 57 SECONDS WEST ALONG THE SOUTH LINE THEREOF, 1,324.53 FEET TO THE WEST LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER; THENCE NORTH 00 DEGREES 10 MINUTES 09 SECONDS WEST ALONG SAID WEST LINE, 323.00 FEET TO A LINE 990.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF SAID SOUTHEAST QUARTER OF THE NORTHEAST QUARTER AS MONUMENTED; THENCE NORTH 89 DEGREES 45 MINUTES 45 SECONDS EAST ALONG SAID PARALLEL LINE, 88.89 FEET; THENCE NORTH 01 DEGREE 53 MINUTES 27 SECONDS EAST, 37.96 FEET; THENCE SOUTH 88 DEGREES 06 MINUTES 33 SECONDS EAST, 87.95 FEET; THENCE SOUTH 01 DEGREE 53 MINUTES 27 SECONDS WEST, 34.70 FEET; THENCE NORTH 89 DEGREES 59 MINUTES 54 SECONDS EAST, 1,146.60 FEET TO THE SAID EAST LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER, THENCE SOUTH 00 DEGREES 20 MINUTES 58 SECONDS EAST ALONG SAID EAST LINE, 323.36 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

The subject property is located at the northeast corner of the intersection of Harmony Road and Seeman Road, **with a common address of 15218 Harmony Road, Huntley, Illinois, in Coral Township.**

The subject property is presently zoned **“A-1” Agriculture District** and consists of approximately **forty (40) acres** with **“A-1” Agriculture District** zoning to the North, South and West, and **“E-3” Estate District** zoning to the East.

The Applicant is requesting a reclassification from “A-1” Agriculture District to “E-1” Estate District.

The successor trustees of the Yolanda D. Finzel Trust are: Steven Finzel, who can be reached at 770 Carol Avenue, Woodstock, Illinois 60098, and Jean Turner, who can be reached at 7420 East Montague Road, German Valley, Illinois 61039.

A hearing on this Petition will be held on the 13th day of November 2025 at 1:30 P.M. in the County Board Conference Room at the McHenry County Government Center/Ware Road Administration Building 667 Ware Road, Woodstock, Illinois at which time and place any person desiring to be heard may be present. The McHenry County Government Center mailing address is 2200 N. Seminary Avenue, Woodstock, Illinois 60098.

DATED THIS 17TH DAY OF OCTOBER 2025.

By: Linnea Kooistra, Chair
McHenry County Zoning Board of Appeals
2200 N. Seminary Avenue
Woodstock, IL 60098

Petitions for all Zoning Board of Appeals hearings can be accessed at the following link:
www.mchenrycountyil.gov/county-government/new-meeting-portal and choosing the “Agenda” link for the specific meeting date.

Live audio streams of all Zoning Board of Appeals hearings can be accessed at the following link:
www.mchenrycountyil.gov/county-government/new-meeting-portal and choosing the “Video” link for the specific meeting date.

Narrative for Map Amendment

PIN:17-35-200-011

39.937 acres NE corner of Seeman Rd. and Harmony Rd.

The Petitioner's intent is to bring the property into conformity with the surrounding uses, zoning, and 2030 comprehensive plan with a Map Amendment to change the zoning from its current A-1 to E-1. The property has been divided on the Plat of Survey created by Vanderstappen Survey and deeds recorded for each parcel in accordance with the Plat Act. The parcels have been divided to be compliant with the regulations and requirements of the E-1 zoning district under the UDO. The proposed zoning designation will allow for the 7 parcels to be used in conformity with the neighboring parcels as single family residences in an Estate District.

Approval Standards for Map Amendments
(McHenry County Unified Development Ordinance §16.20.010E.1)

This form must be completed for requests for map amendment(s). Yes and No answers are insufficient, please provide a minimum of one (1) or two (2) sentence explanation. If there is insufficient room (650 character limit), please provide a separate response page.

1. Is the **proposed zoning designation** compatible with the existing uses and zoning designations of nearby properties?

Yes the proposed zoning designation is compatible with the existing uses. The Properties to the North are currently used as similar single family home lots off of Seeman Rd. To the East the properties are zoned E-3 Estates; to the Southeast are A-1 strips consisting of single family homes; to the South and West are A-1 agricultural farm fields; and to the Southwest the properties are E-1C single family homes in the subdivision.

2. To what extent is the value of the subject property diminished by the **existing zoning designation**?

The property is currently a 39.937 acre A-1 parcel with a farmstead and farmland. Under the existing zoning that is the extent of what the property can be or become. The zoning as existing will not allow for the divided 7-parcels to be buildable properties.

3. Is there a benefit to the health, safety, and welfare of the public under the **current zoning designation**?

The 2030 Comprehensive Land Use Plan calls for this property to be used as estate single family homes. The agricultural use is not the highest and best use of the property as can be noted by looking at the 2030 Plan.

4. Is the property suitable for uses allowed under the **current zoning designation**?

The property is suitable for the continued agricultural practices that can be performed on the property; however, the property is not in conformity with the adjacent uses of estate residences.

5. How long has the property been vacant under the **current zoning designation**?

The property has always been A-1 under the UDO and has always been a farm.

6. Is there a public need for the **proposed use** of the property?

Yes. The conformity of the estate residences as well as the need for an increase of rural housing shows a public need for this proposed use.

7. Is the proposed use consistent with the McHenry County 2030 and Beyond Comprehensive Plan? If not, please explain how the plan designation is inappropriate for this property?

The proposed use is consistent with the McHenry County 2030 and Beyond Comprehensive Plan.

If the requested zoning classification is A-2 Agriculture District, then address the following (From McHenry County Unified Development Ordinance §16.36.020)

1. What is the current zoning of the subject property (note: only properties which are currently zoned A-1 Agriculture may be considered for A-2 Agriculture zoning)?

A-1 Agriculture District

2. Excluding mobile homes, agricultural trailers, and agriculture employee housing, is there a residence on the property?

☐

Yes

☐

No

3. Is the area being reclassified part of more than one parcel?

☐

Yes

☐

No

4. Which exemption from the Illinois Plat Act (765 ILCS 205/ et seq.) applies to this request?

☐

- a. The division or subdivision of land into parcels or tracts of five (5) acres or more in size which does not involve any new streets or easements of access?

☐

- b. The sale or exchange of parcels or tracts of land following the division into no more than two (2) parts of a particular parcel or tract of land existing on July 17, 1959 and not involving any new streets or easements of access?

☐

- c. The sale of a single lot of less than five (5) acres from a larger tract when a survey is made by an Illinois Registered Land Surveyor, provided that this exemption shall not apply to the sale of any subsequent lots from the same larger tract of land, as determined by the dimensions and configuration of the larger tract on October 1, 1973, and provided also that this exemption does not invalidate any local requirements applicable to the subdivision of property?

McHENRY~LAKE COUNTY SOIL & WATER CONSERVATION DISTRICT

NATURAL RESOURCES INFORMATION REPORT

25-082-4743

October 8, 2025



This report has been prepared for:
Yolanda D. Finzel Trust

Contact Person:
Tyler M. Wilke

PREPARED BY:
McHENRY-LAKE COUNTY SOIL & WATER CONSERVATION
DISTRICT
1648 S. EASTWOOD DR.
WOODSTOCK, IL 60098
PHONE: (815) 338-0444

www.mchenryswcd.org

The McHenry-Lake County Soil & Water Conservation District
is an equal opportunity provider and employer.

EXECUTIVE SUMMARY OF NRI REPORT #25-0182-4743

It is the opinion of the McHenry-Lake County Soil and Water Conservation District Board of Directors that this report as summarized on these pages are pertinent to the requested zoning change.





Picture 1: Northwest corner looking southeast. (Due to the existing corn crop, it was difficult to get a representative site picture.)

Groundwater Contamination Potential and Recharge Areas:



Aquifer Sensitivity Map (*This is the area beneath the soil profile down to bedrock)
The Geologic features map indicates the parcel is comprised of D2 geologic limitations which has a moderately-low aquifer contamination potential.

Sensitive Aquifer Recharge Areas (Includes the soil profile and underlying geology).
The Sensitive Aquifer Recharge Map indicates the parcel is not within an area designated as Sensitive Aquifer Recharge.

Soil Leachability Map (This is only the soil profile within the parcel from the surface down to approx. 5 feet).
The Soil Leachability Index indicates the parcel does not contain high leaching potential for fertilizers.

Soil Permeability Map (This is only the soil profile within the parcel from the surface down to approx. 5 feet. Soil permeability is a reflection of the speed in which water (with or without pollutants) can move through the soil profile.)
The USDA-NRCS Soil Survey Map of the area indicates there are no highly permeable soils that allow water to rapidly move through the soil profile, on the parcel.

Soil Limitations (This evaluates the parcel from the surface down to approximately 5 feet.):

Dwellings with Basements

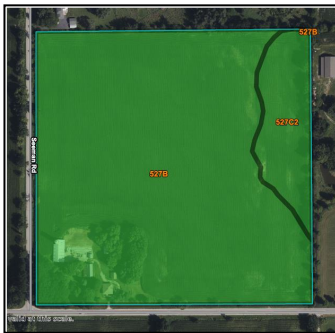
Dwellings are single-family houses of three stories or less. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The NRCS Soils Survey indicates there are no very limited soils on the parcel.

Dwellings without Basements

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The NRCS Soils Survey indicates there are no very limited soils on the parcel.

Erosion Ratings

The NRCS Soils Survey indicates 4.5 acres or 11.7% of the parcel contains highly erodible soils.



Prime Farmland Soils

The Natural Resources Conservation Service (NRCS) Soil Survey indicates the entire parcel is comprised of prime farmland soils.

Hydric Soils

The NRCS Soil Survey indicates there are no hydric soils on the parcel.

Floodplain Information:

The Flood Insurance Rate Map

Indicates the parcel is outside of the 100-year floodplain.

Flood of Record Map (Hydrologic Atlas)

The Flood of Record Map for this area indicates there has been no previous flooding on the parcel.

Wetland Information:



USDA-NRCS Wetland Inventory

The NRCS Wetlands Inventory indicates there are 0.05 acres of wetlands on the parcel (identified in green).



ADID Wetland Inventory

The ADID Wetland Study indicates 0.05 acres of wetland C 227 on the parcel (identified in light green).

Flooding Frequency

The NRCS Soil Survey indicates that flooding is not probable. The chance of flooding is nearly 0% in any year. Flooding occurs less than once in 500 years.

Ponding Frequency

The NRCS Soil Survey indicates that ponding is not probable. The chance of ponding is nearly 0% in any year.

Cultural Resources: None identified

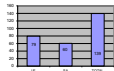
Preserved or Recognized Ecological Sites: None identified

Woodlands: There are existing mature trees in the field borders and around the existing structures.

Agricultural Areas: Office Maps indicate there are no State designated agricultural areas on the parcel in question.

Land Evaluation Site Assessment (LESA)

The Land Evaluation and Site Assessment system indicates this parcel has a **moderate impact to existing land use and resources.**



Conservation Design: The parcel does not meet the automatic or cumulative triggers for conservation design.

The McHenry-Lake County Soil & Water Conservation District Board of Directors has no immediate concerns regarding this zoning change.



NATURAL RESOURCE INFORMATION REPORT (NRI)

NRI Report Number	25-082-4743	
Date District Board Reviews Application	October 7, 2025	
Applicant's Name	Yolanda D. Finzel Trust	
Size of Parcel	39.937 acres	
Zoning Change	A-1 to E-1	
Parcel Index Number(s)	17-35-200-011	
Common Location	15218 Harmony Rd., Huntley, IL	
Contact Person	Tyler M. Wilke	
<i>Copies of this report or notification of the proposed land-use change were provided to:</i>	<i>yes</i>	<i>no</i>
The Applicant		x
The Applicant's Legal Representation	x	
The Village/City/County Planning and Zoning Department or Appropriate Agency	x	

Report Prepared By: *Spring M. Duffey*

Position: *Executive Director*

<i>Contents</i>	<i>Page</i>
PURPOSE & INTENT.....	3
PARCEL LOCATION.....	4
ARCHAEOLOGIC/CULTURAL RESOURCES INFORMATION.....	5
ECOLOGICALLY SENSITIVE AREAS.....	5
WOODLANDS.....	7
GEOLOGIC INFORMATION.....	8
AQUIFER SENSITIVITY MAP.....	8
SENSITIVE AQUIFER RECHARGE AREAS.....	9
SOILS INFORMATION.....	11
SOILS MAP.....	12
SOIL MAP UNIT DESCRIPTIONS.....	13
SOILS INTERPRETATIONS EXPLANATION.....	13
SOIL LEACHABILITY.....	14
SOIL PERMEABILITY.....	17
LIMITATIONS FOR SEPTIC SYSTEMS.....	18
BUILDING LIMITATIONS.....	19
SOIL EROSION & SEDIMENT CONTROL.....	24
PRIME FARMLAND SOILS.....	25
AGRICULTURAL AREAS.....	27
LAND EVALUATION AND SITE ASSESSMENT (LESA).....	27
LAND USE PLANS.....	29
DRAINAGE, RUNOFF AND FLOOD INFORMATION.....	29
FLOOD OF RECORD MAP.	
2 FOOT TOPOGRAPHIC MAP	
FLOOD INSURANCE RATE MAP	
WATERSHED PLANS.....	34
WETLAND INFORMATION.....	35
NRCS WETLAND MAP	
ADID WETLANDS	
HYDRIC SOILS	
FLOODING FREQUENCY	
PONDING FREQUENCY	
WETLAND AND FLOODPLAIN REGULATIONS	
CONSERVATION DESIGN REQUIREMENTS.....	47
THREATENED & ENDANGERED SPECIES.....	48
GLOSSARY.....	49
REFERENCES.....	51

PURPOSE AND INTENT

The purpose of this report is to inform officials of the local governing body and other decision-makers with natural resource information. This information may be useful when undertaking land use decisions concerning variations, amendments or relief of local zoning ordinances, proposed subdivision of vacant or agricultural lands and the subsequent development of these lands. This report is a requirement under Section 22.02a of the Illinois Soil and Water Conservation Districts Act.

The intent of this report is to present the most current natural resource information available in a readily understandable manner. It contains a description of the present site conditions, the present resources, and the potential impacts that the proposed change may have on the site and its resources. The natural resource information was gathered from standardized data, on-site investigations and information furnished by the petitioner. This report must be read in its entirety so that the relationship between the natural resource factors and the proposed land use change can be fully understood.

Due to the limitations of scale encountered with the various resource maps, the property boundaries depicted in the various exhibits

in this report provide a generalized representation of the property location and may not precisely reflect the legal description of the PIQ (Parcel in Question).

This report, when used properly, will provide the basis for proper land use change decisions and development while protecting the natural resource base of the county. It should not be used in place of detailed environmental and/or engineering studies that are warranted under most circumstances, but in conjunction with those studies.

The conclusions of this report in no way indicate that a certain land use is not possible, but it should alert the reader to possible problems that may occur if the capabilities of the land are ignored. Any questions on the technical data supplied in this report or if anyone feels that they would like to see more additional specific information to make the report more effective, please contact:

**McHenry-Lake County Soil & Water
Conservation District
1648 S. Eastwood Dr.
Woodstock, IL 60098
Phone: (815) 338-0444 ext. 3
www.mchenryswcd.org
E-mail: Spring.Duffey@il.nacdnet.net**

PARCEL LOCATION

Location Map for Natural Resources Information Report # 25-082-4743

In the Northeast Quarter of Section 35, Township 43 North, Range 6 East, on 39.937 acres.

This parcel is located at the northeast corner of Seeman Road and Harmony Road,
commonly known as 15218 Harmony Road, Huntley, IL.



ARCHAEOLOGIC/CULTURAL RESOURCES

Simply stated, cultural resources are all the past activities and accomplishments of people. They include the following: buildings; objects made or used by people; locations; and less tangible resources, such as stories, dance forms, and holiday traditions. The Soil and Water Conservation District most often encounters cultural resources as historical properties. These may be prehistoric or historical sites, buildings, structures, features, or objects. The most common type of historical property that the Soil and Water Conservation District may encounter is non-structural archaeological sites. These sites often extend below the soil surface, and must be protected against disruption by development or other earth moving activity if possible. Cultural resources are *non-renewable* because there is no way to “grow” a site to replace a disrupted site.

Landowners with historical properties on their land have ownership of that historical property. However, the State of Illinois owns all of the following: human remains, grave markers, burial mounds, and artifacts associated with graves and human remains.

Non-grave artifacts from archaeological sites and historical buildings are the property of the landowner. The landowner may choose to disturb a historical property, but may not receive federal or state assistance to do so. If an earth moving activity disturbs human remains, the landowner must contact the county coroner within 48 hours.

Office maps do not indicate historical features on the parcel in question. (PIQ)

ECOLOGICALLY SENSITIVE AREAS

What is Biological Diversity and Why Should it be Conserved?¹

Biological diversity, or biodiversity, is the range of life on our planet. A more thorough definition is presented by botanist Peter H. Raven: “At the simplest level, biodiversity is the sum total of all the plants, animals, fungi and microorganisms in the world, or in a particular area; all of their individual variation; and all of the interactions between them. It is the set of living organisms that make up the fabric of the planet Earth and allow it to function as it does, by capturing energy from the sun and using it to drive all of life’s processes; by forming communities of organisms that have, through the several billion years of life’s history on Earth, altered the nature of the atmosphere, the soil and the water of our Planet; and by making possible the sustainability of our planet through their life activities now.” (Raven 1994)

It is not known how many species occur on our planet. Presently, about 1.4 million species have been named. It has been estimated that there are perhaps 9 million more that have not been identified. What is known is that they are vanishing at an unprecedented rate. Reliable estimates show extinction occurring at a rate several orders of magnitude above “background” in some ecological systems. (Wilson 1992, Hoose 1981)

The reasons for protecting biological diversity are complex, but they fall into four major categories.

First, loss of diversity generally weakens entire natural systems. Healthy ecosystems tend to have many natural checks and balances. Every species plays a role in maintaining this system. When simplified by the loss of diversity, the system becomes more susceptible to natural and artificial perturbations. The chances of a system-wide collapse increase. In parts of the midwestern United States, for example, it was only the remnant areas of natural prairies that kept soil intact during the dust bowl years of the 1930s. (Roush 1982)

Simplified ecosystems are almost always expensive to maintain. For example, when synthetic chemicals are relied upon to

¹Taken from *The Conservation of Biological Diversity in the Great Lakes Ecosystem: Issues and Opportunities*, prepared by the Nature Conservancy Great Lakes Program 79W. Monroe Street, Suite 1309, Chicago, IL 60603, January 1994

control pests, the target species are not the only ones affected. Their predators are almost always killed or driven away, exasperating the pest problem. In the meantime, people are unintentionally breeding pesticide-resistant pests. A process has begun where people become perpetual guardians of the affected area, which requires the expenditure of financial resources and human ingenuity to keep the system going.

A second reason for protecting biological diversity is that it represents one of our greatest untapped resources. Great benefits can be reaped from a single species. About 20 species provide 90% of the world's food. Of these 20, just three, wheat, maize and rice supply over one half of that food. American wheat farmers need new varieties every five to 15 years to compete with pests and diseases. Wild strains of wheat are critical genetic reservoirs for these new varieties.

Further, every species is a potential source of human medicine. In 1980, a published report identified the market value of prescription drugs from higher plants at over \$3 billion. Organic alkaloids, a class of chemical compounds used in medicines, are found in an estimated 20% of plant species. Yet only 2% of plant species have been screened for these compounds. (Hoose 1981)

The third reason for protecting diversity is that humans benefit from natural areas and depend on healthy ecosystems. The natural world supplies our air, our water, our food and supports human economic activity. Further, humans are creatures that evolved in a diverse natural environment between

forest and grasslands. People need to be reassured that such places remain. When people speak of "going to the country," they generally mean more than getting out of town. For reasons of their own sanity and well being, they need a holistic, organic experience. Prolonged exposure to urban monotony produces neuroses, for which cultural and natural diversity cure.

Historically, the lack of attention to biological diversity, and the ecological processes it supports, has resulted in economic hardships for segments of the basin's human population.

The final reason for protecting biological diversity is that species and natural systems are intrinsically valuable. The above reasons have focused on the benefits of the natural world to humans. All things possess intrinsic value simply because they exist.

Biological Resources Concerning the Subject Parcel

As part of the Natural Resources Information Report, staff checks office maps to determine if any nature preserves are within 500 feet of the parcel in question. If there is a nature preserve in the area, then that resource will be identified as part of the report. The SWCD recommends that every effort be made to protect that resource. Such efforts should include, but are not limited to erosion control, sediment control, stormwater management, and groundwater monitoring.

Office maps indicate there are no biologic preserves within 500 feet of the parcel in question. (PIQ)

WOODLANDS

Existing mature trees should be preserved whenever possible. Woodlands provide a large number of benefits such as wildlife habitat, erosion control, air and water quality improvements, as well as aesthetic values. There is no indication that a tree inventory has been done. A tree preservation plan needs to be developed and this intent needs to be clearly conveyed to the contractors doing the work. Construction activities can indirectly destroy trees. Oak trees are particularly susceptible to long term, permanent damage caused by construction activities and require special consideration. It is also recommended that invasive non-native species be removed whenever possible.

Native woodlands are no longer a common occurrence throughout much of McHenry County. Although forests originally covered nearly 40% of Illinois, today only about 12% of the state is forested, with most of this being secondary growth (Ill. Natural History Survey Reports, Nov/Dec 1993, No. 324). The composition of Illinois forests has changed markedly over the past three decades. 97% of the timberland is classified as hardwood forest. The forest acreage continues to increase from 4.2 million acres in 1985 to 4.3 million acres in 1998. (IL Forest Development Council News, IL DNR, Winter 2001/Volume 2, No. 1). Oak-hickory forests, which had made up half of the acreage, have declined by 14%, and make up 2.1 million acres. This decline is largely a result of wildfire suppression that allows maples to take over. Thus, the acres of maple-beech forest have risen more than 40-fold from 1962 to 1985, to one quarter of the total forest area, 696 thousand acres. Dutch elm disease and the conversion of forested bottomlands to agriculture have resulted in huge declines in the elm-ash-cottonwood forests, 906 thousand acres, falling from one third - one sixth of the Illinois forest area. Elm accounts for the greatest number of individual trees – 412 million. Other species groups with more than 100 million trees include hickory, red oak, sugar/black maple, ash, hackberry, and black cherry.

Woodlands provide many benefits such as wildlife habitat, erosion control, air and water quality improvements, and aesthetic values.

Forests are responsible for much of the biological diversity in the state. Many species are dependent upon forests for food & shelter, including threatened/endangered species.

One of the most serious problems facing Illinois forests is the invasion of exotic plants and animals. Some of the most damaging plants includes European buckthorn, multiflora rose, honeysuckle, purple loosestrife, and garlic mustard.

Many trees, particularly hardwoods (especially oaks) are extremely sensitive to construction-induced disturbances. The area most susceptible to damage is within the "drip radius," the ground surface directly beneath the leafy canopy of the tree. Many trees have an extensive system of feeder roots, located within one foot of the surface, and supply the tree with the majority of its moisture and nutrient needs.

Construction activities can negatively impact trees in several different ways. Earth-moving activities that stockpile soil near trees can suffocate tree roots that, although buried, require oxygen. Vehicle traffic can compact the soil to a point where the roots no longer function effectively. Grading activities for road cuts and foundations can cause a localized drop in the water table, placing the trees under stress. The placement of pavement or stormwater management facilities near established trees can also radically change soil moisture. The removal of the accumulated organic materials normally present on a woodland floor, and the subsequent establishment of turf lawns, can drastically affect the soil temperature and nutrient balance. Injury to the bark of a tree can increase the chance of the tree being subjected to a potentially harmful disease.

If existing trees are to be maintained in a healthy state, the appropriate planning is necessary. Someone with a working knowledge of forestry should assess existing trees to determine which trees should be protected. Some tree species are not considered desirable due to their aggressive growth, behavior, and limited value to local wildlife. Proper management of woodlands and open space includes the selective elimination of such trees and replacement by more desirable species. **Trees**

that are to be saved should be marked and protected with snow fencing or similar material, installed around the drip radius, to prevent root damage, and vehicle traffic should be minimized around the drip line. Contractors should be informed of the intention to preserve trees and be expected to conduct their work accordingly.

Tree damage resulting from construction activities may not be apparent for a number of years. While it is recognized that some tree loss is unavoidable, this should be minimized to the extent possible. It is highly recommended that trees lost to development activity be replaced by younger specimens of the native trees now found on the PIQ.

GEOLOGIC INFORMATION

Geology and the Proposed Land Use

As density of septic systems increases, the concern for pollution potential of local groundwater rises. Local geology plays an important role in determining the pollution potential. Groundwater pollution potential is an important factor when determining a specific area's suitability for a given land use. The local

geology, is an important element of the natural resource base. This information, when compared to soils information, gives a clearer picture of conditions on this parcel.

Geological data comes from the Illinois State Geological Survey Circular 559, *Geologic Mapping for Environmental Planning, McHenry County, Illinois*.



The Geologic features map indicates the parcel is comprised of D2 geologic limitations.

D-2 Geologic limitations. The potential for contamination is moderately low. The thick fine-grained materials found in this unit shield the aquifer from any source of contamination at the surface. Caution should be exercised when evaluating diamicton for groundwater protection in map areas D, E, and F of McHenry County because each diamicton unit contains lenses of sand and gravel. Another concern regarding the groundwater protection provided by diamicton units relates to the potential for migration of liquid wastes along cracks or other discontinuities that may extend as much as 50 feet below the ground surface. (Contains 50-100 feet fine-grained materials overlying 20-50 feet sand and gravel.)

Aquifer Sensitivity, McHenry County, Illinois
(e.g., septic systems) (Vaiden et al.)

SENSITIVE AQUIFER RECHARGE AREAS

Developed for McHenry County in 2008 and revised in 2018 is the “McHenry County Sensitive Aquifer Recharge Areas” map. Because McHenry County is 100% reliant on groundwater and has been experiencing groundwater quantity/quality issues, the county board in 1995 authorized a groundwater investigation/report titled “County of McHenry Groundwater Resources Management Plan”. Many facts in that report startled decision makers. For example, the report found that in 2000, one township was withdrawing groundwater at unsustainable rates and by 2030 if status-quo, three townships would be doing the same and that three other townships would be approaching that unsustainability. In 2007, the County Board hired a full time Water Resources Manager and authorized the creation of the McHenry County Groundwater Task Force. The Recharge Subcommittee of the Groundwater Task Force was charged with identifying areas within the county that could be considered to have high potential for recharge of shallow groundwater and develop recommendations for protecting those areas in terms of both quantity and quality. The original main basis for the map identifying recharge is areas of high or moderately high potential for aquifer contamination as identified in the Illinois State Geological Survey’s Circular 559, “Geologic Mapping for Environmental Planning, McHenry County, IL”. In a meeting of the recharge subcommittee, Illinois State Geological Survey and Illinois State Water Survey, it was determined that the areas of high or moderately high potential for aquifer contamination could be qualified by using soil properties. The plan was to remove from the high and moderately high areas those soils with slow permeability, steep slopes and hydric soils that discharge groundwater. Using Table 6 of the Soil Survey of McHenry County a digital layer was developed of soil properties:

- Restricted permeability
- Slopes 4% or greater (except if the soil had excessive permeability, it was not included)

Also digitized were groundwater discharge hydric soils. NRCS Illinois Area 3 Resource Soil Scientists in 2002 developed a hydric soil recharge/flow through/discharge guide to use when designing wetland restoration. Because recharge/flow through/discharge is very complex and changes depending on the year only soils that were thought to be generally only groundwater discharge were used.

Subsequent to the original map development, 3D groundwater modeling has occurred and provided more precise groundwater flow data and thus was the basis for the 2018 map update. *(Information Courtesy of the McHenry County Groundwater Taskforce – Recharge Subcommittee.)*



The map indicates the parcel is not within a Sensitive Aquifer Recharge Area.

SOILS INFORMATION

Importance of Soils Information

Soils information comes from Natural Resources Conservation Service Soil Maps and Descriptions for McHenry County. This information is important to all parties involved in determining the suitability of the proposed land use change.

Each soil polygon is given a number, which represents its soil type. The letter found after the soil type number indicates the soils slope class.

Each soil map unit has limitations for a variety of land uses such as septic systems, buildings with basements, and buildings without basements. It is important to remember that soils do not function independently of each other. The behavior of a soil depends upon the physical properties of adjacent soil types, the presence of artificial drainage, soil compaction, and its position in the local landscape.

The limitation categories (slight, moderate or severe) indicate the potential for difficulty in using that soil unit for the proposed activity and, thus, the degree of need for thorough soil borings and engineering studies. A limitation does not necessarily mean that the proposed activity

cannot be done on that soil type. It does mean that the reasons for the limitation need to be thoroughly understood and dealt with in order to complete the proposed activity successfully. A severe limitation indicates that the proposed activity will be more difficult and costly to do on that soil type than on a soil type with a moderate or slight rating.

Soil survey interpretations are predictions of soil behavior for specified land uses and specified management practices. They are based on the soil properties that directly influence the specified use of the soil. Soil survey interpretations allow users of soil surveys to plan reasonable alternatives for the use and management of soils.

Soil interpretations do not eliminate the need for on-site study and testing of specific sites for the design and construction for specific uses. They can be used as a guide for planning more detailed investigations and for avoiding undesirable sites for an intended use. The scale of the maps and the range of error limit the use of the soil delineations.



Map Unit Symbol	Map Unit Name	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded	4.5	11.7%

Soil Interpretations Explanation

Nonagricultural

General

These interpretative ratings help engineers, planners, and others to understand how soil properties influence behavior when used for nonagricultural uses such as building site development or construction materials. This report gives ratings for proposed uses in terms of limitations and restrictive features. The tables list only the most restrictive features. Other features may need treatment to overcome soil limitations for a specific purpose.

Ratings come from the soil's "natural" state, that is, no unusual modification occurs other than that which is considered normal practice for the rated use. Even though soils may have limitations, an engineer may alter soil features or adjust building plans for a structure to compensate for most degrees of limitations. Most of these practices, however, are costly. The final decision in selecting a site for a particular use generally involves weighing the costs for site preparation and maintenance.

Soil properties influence development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Soil limitation ratings of slight, moderate, and severe are given for the types of proposed improvements that are listed or inferred by the petitioner as entered on the report application and/or zoning petition. The most common types of building limitation that this

report gives limitations ratings for is: septic systems. It is understood that engineering practices can overcome most limitations for buildings with and without basements, and small commercial buildings. Limitation ratings for these types of buildings are not commonly provided. Organic soils, when present on the parcel, are referenced in the hydric soils section of the report. This type of soil is considered to be unsuitable for all types of construction.

Limitations Ratings

1. ***Slight*** - This soil has favorable properties for the use. The degree of limitation is minor. The people involved can expect good performance and low maintenance.
2. ***Moderate*** - This soil has moderately favorable properties for the use. Special planning, design, or maintenance can overcome this degree of limitation. During some part of the year, the expected performance is less desirable than for soils rated slight.
3. ***Severe or Very Severe*** - This soil has one or more properties that are unfavorable for the rated use. These may include the following: steep slopes, bedrock near the surface, flooding, high shrink-swell potential, a seasonal high water table, or low strength. This degree of limitation generally requires major soil reclamation, special design, or intensive maintenance, which in most situations is difficult and costly.

SOIL LEACHABILITY

This interpretation is designed to evaluate the potential for nitrate-nitrogen to be transmitted through the soil profile below the root zone by percolating water under nonirrigated conditions. Leaching nitrates have the potential to contaminate shallow and deep aquifers used for drinking water. The ratings are based on inherent soil and climate properties that affect nitrate leaching and do not account for management practices, such as crop rotation and rates and timing of nitrogen fertilizer applications.

The following soil and climate factors are used in the interpretation criteria:

1. Mean annual precipitation minus potential evapotranspiration - This factor provides an estimate of the amount of water that is available to move through the soil profile on an annual basis. Potential evaporation is estimated from mean annual air temperature using an algorithm (developed by the National Soil Survey Center) that employs the Hamon potential evapotranspiration method.
2. Water travel time through the entire soil profile - This factor uses the saturated hydraulic conductivity (Ksat) and thickness of each soil horizon to estimate the number of hours that would be required for a given volume of water to move through the entire soil profile. One advantage of this method for estimating the rate of water movement is that the properties and thickness of each soil horizon are accounted for instead of using an average saturated hydraulic conductivity for the entire profile. This method accounts for subtle differences between soils in texture, structure, horizon thickness, and depth to water-restricting layers.
3. Available water capacity - This factor accounts for the cumulative amount of water available to plants that the entire soil profile can hold at field capacity to a depth of 150 cm. The more water the soil profile can hold, the less water is available for deep leaching.
4. Depth to and duration of a water table - This factor uses a water table index based on the minimum average depth to a water table and the number of months that the water table is present during the period from April through October. The factor is used to account for the loss of nitrates to the atmosphere as nitrous oxide or nitrogen gas due to denitrification under anaerobic conditions caused by water saturation. The higher the water table and the longer its duration, the larger the quantity of nitrates that would potentially be lost to the atmosphere and therefore would not be available for deep leaching.
5. Slope gradient adjusted for hydrologic soil group - The steeper the slope gradient, the higher the potential for surface runoff and the lower the amount of water available to move through the soil profile. The following adjustments are made to the slope gradient by hydrologic group to account for differences in potential for surface runoff:

Hydrologic group A-slope % x 0.75

Hydrologic group B-slope % x 0.85

Hydrologic group C-slope % x 0.95

Hydrologic group D-no adjustment

The ratings are both verbal and numerical. The ratings for Nitrate Leaching Potential, Nonirrigated Areas, are calculated as follows:

- The Mean Annual Precipitation minus Potential Evapotranspiration subrule is weighted by multiplying by 0.60.
- The Water Travel Time subrule is weighted by multiplying by 0.25.
- The Available Water Capacity subrule is weighted by multiplying by 0.15.
- The sum of these three weighted subrules results in a value between 0.00 and 1.00.
- Adjustments are then made for water table depth and duration and for slope gradient adjusted for hydrologic group. The sum of the values from these subrules is subtracted from the sum in step 4 above. The maximum reduction is 0.50 for the water table index subrule and 0.30 for the slope gradient subrule.

The following rating classes for Nitrate Leaching Potential, Nonirrigated Areas, are assigned based on the final calculation from the factors above:

Low: 0.00 to 0.25

Moderate: 0.26 to 0.50

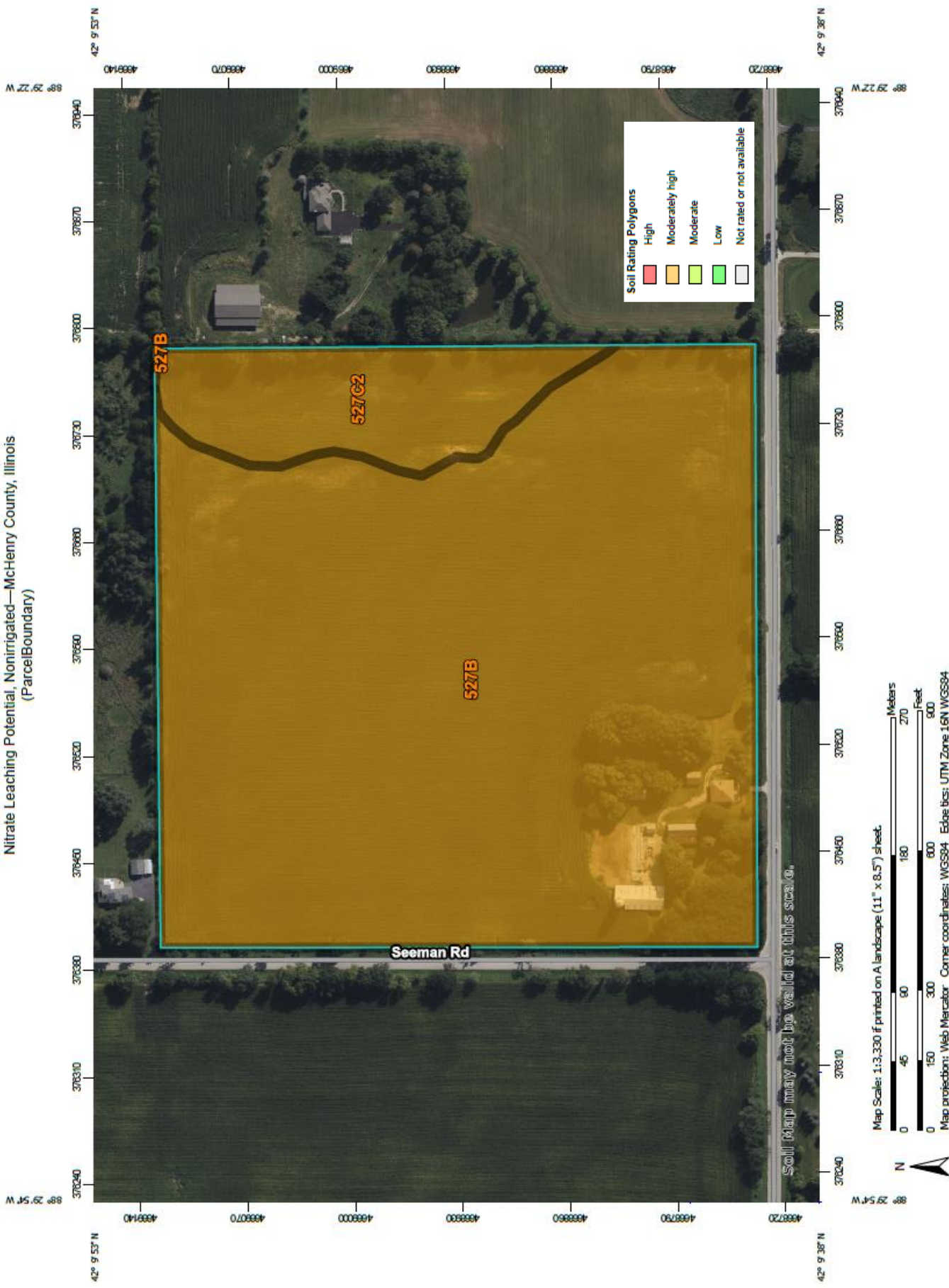
Moderately high: 0.51 to 0.75

High: 0.76 to 1.00

The ratings indicate the potential for nitrate leaching below the root zone, based on inherent soil and climate properties. A "low" rating indicates a low potential for leaching of nitrates below the root zone. A "high" rating indicates a high potential for leaching of nitrates below the root zone. The "moderate" and "moderately high" ratings indicate intermediate potential.

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.



Nitrate Leaching Potential, Nonirrigated

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	Moderately high	Kidami (85%)	Water quantity available for leaching (0.99)	33.6	88.3%
				Water travel time (0.61)		
527C2	Kidami loam, 4 to 6 percent slopes, eroded	Moderately high	Kidami (85%)	Water quantity available for leaching (0.99)	4.5	11.7%
				Water travel time (0.61)		
Totals for Area of Interest					38.1	100.0%
Rating		Acres			Percent	
Moderately high		38.1			100.0%	

SOIL PERMEABILITY

Soil permeability is the quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality.

For the purposed of the NRI Report, those soils which have “rapid” to “very rapid” permeability, have been identified as “highly permeable.”

Terms describing permeability, measured in inches per hour, are as follows:

Extremely slow 0.0 to 0.01 inch
 Very slow 0.01 to 0.06 inch
 Slow 0.06 to 0.2 inch
 Moderately slow 0.2 to 0.6 inch
 Moderate 0.6 inch to 2.0 inches
 Moderately rapid 2.0 to 6.0 inches
 Rapid 6.0 to 20 inches
 Very rapid more than 20 inches

Highly Permeable Soils			
Map Unit Symbol	Highly Permeable	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes - No	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded – No	4.5	11.7%
Total Highly Permeable		0.0	0.0%

LIMITATIONS FOR SEPTIC SYSTEMS

Rating Criteria

The septic suitability ratings used in this report are based on the USDA-NRCS Resource Soil Scientist and McHenry County SWCD Soil Scientist review of the new soil legend as it

relates to the current McHenry County Soil Standards Manual. The major soil properties that effect septic field functions in McHenry County are texture, permeability, high water table and flooding.

Septic Limitations			
Map Unit Symbol	Septic Limitations	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes - None	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded – None	4.5	11.7%
Total Severe		0.0	0.0%

DWELLINGS WITH BASEMENTS

Dwellings are single-family houses of three stories or less. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet.

The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification of the soil. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

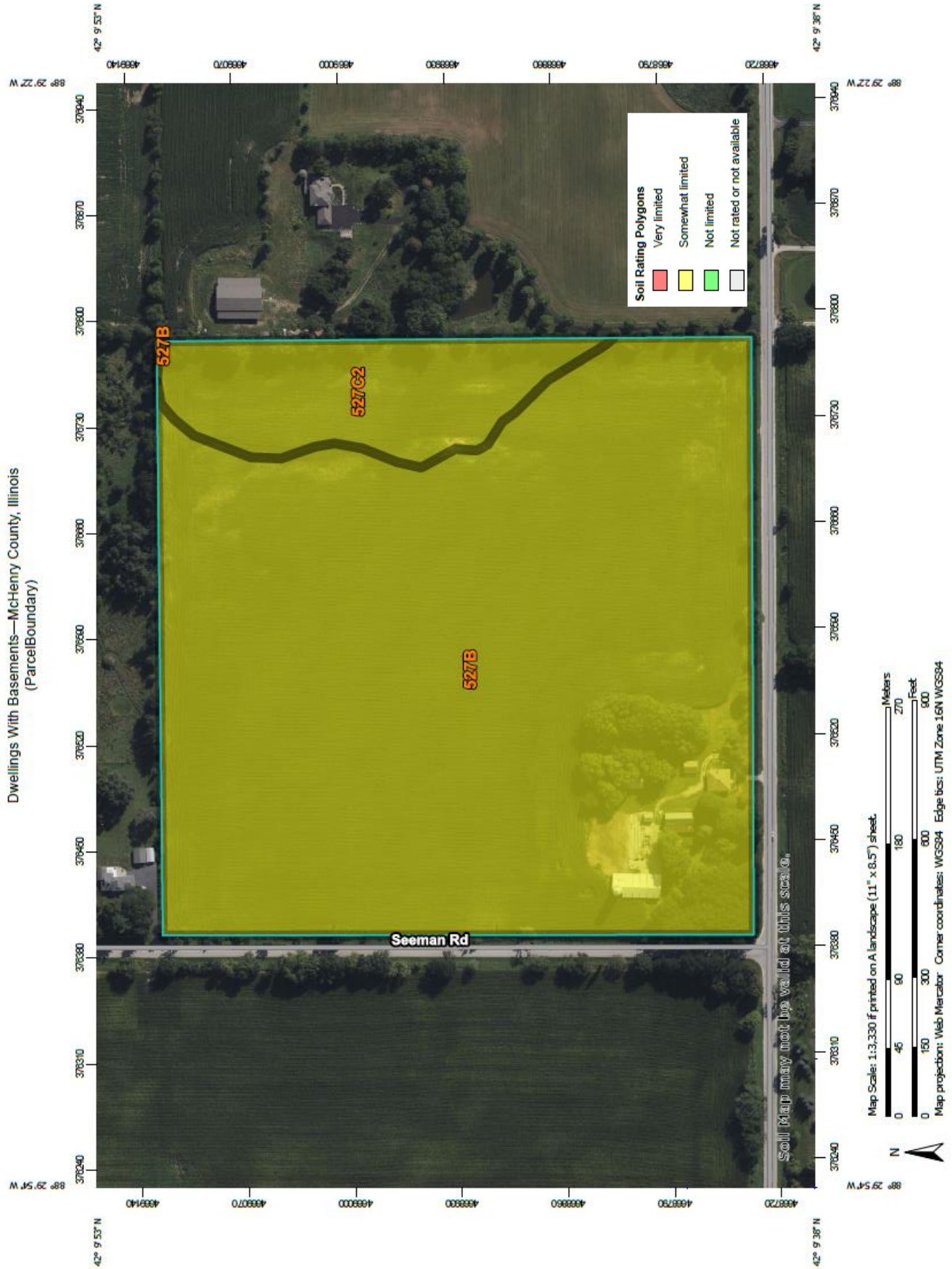
The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features

that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.



Dwellings With Basements						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	Somewhat limited	Kidami (85%)	Depth to saturated zone (0.99)	33.6	88.3%
				Shrink-swell (0.01)		
527C2	Kidami loam, 4 to 6 percent slopes, eroded	Somewhat limited	Kidami (85%)	Depth to saturated zone (0.99)	4.5	11.7%
				Shrink-swell (0.01)		
Rating		Acres			Percent	
Somewhat limited		38.1			100.0%	

DWELLINGS WITHOUT BASEMENTS

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper.

The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification of the soil. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

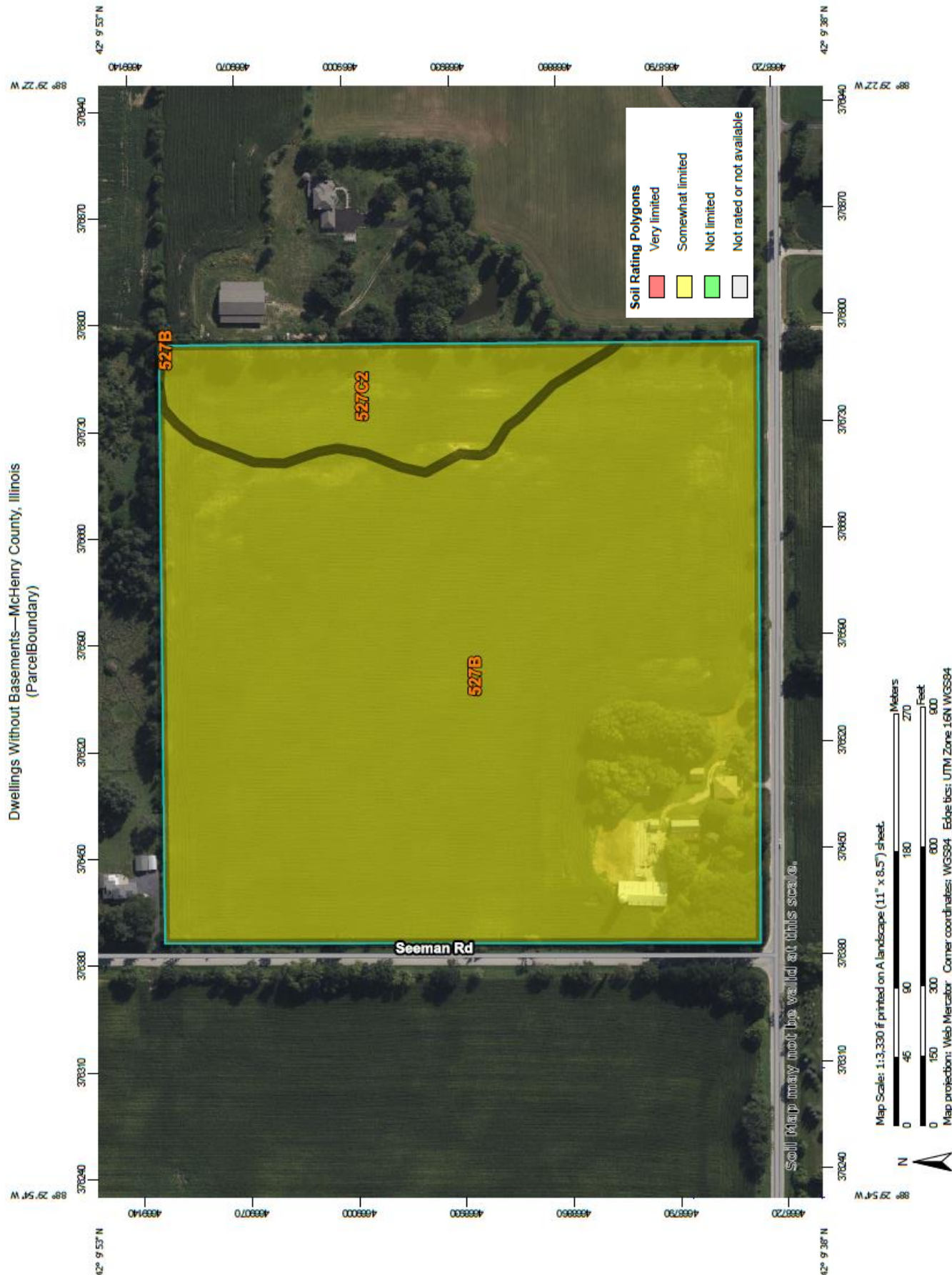
The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are

unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.



Dwellings Without Basements						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	Somewhat limited	Kidami (85%)	Shrink-swell (0.35)	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded	Somewhat limited	Kidami (85%)	Shrink-swell (0.35)	4.5	11.7%
Rating		Acres		Percent		
Somewhat limited		38.1		100.0%		

SOIL EROSION & SEDIMENT CONTROL

Erosion is the wearing away of the soil by water, wind, and other forces. Soil erosion threatens the Nation's soil productivity and contributes the most pollutants in our waterways. Water causes about two thirds of erosion on agricultural land. Four properties, mainly, determine a soil's erodibility:

1. Texture
2. Slope
3. Structure
4. Organic matter content

Slope has the most influence on soil erosion potential when the site is under construction. Erosivity and runoff increase as slope grade increases. The runoff then exerts more force on the particles, breaking their bonds more readily and carrying them farther before deposition. The longer water flows along a slope before reaching a major waterway, the greater the potential for erosion.

Soil erosion during and after this proposed construction can be a primary non-point source of water pollution. Eroded soil during the construction phase can create unsafe conditions on roadways, decrease the storage capacity of lakes, clog streams and drainage channels, cause deterioration of aquatic habitats, and increase

water treatment costs. Soil erosion also increases the risk of flooding by choking culverts, ditches and storm sewers, and by reducing the capacity of natural and man-made detention facilities.

The general principles of erosion and sedimentation control measures include:

- reducing or diverting flow from exposed areas, storing flows or limiting runoff from exposed areas,
- staging construction in order to keep disturbed areas to a minimum,
- establishing or maintaining or temporary or permanent groundcover,
- retaining sediment on site and
- properly installing, inspecting and maintaining control measures.

Erosion control practices are useful controls only if they are properly located, installed, inspected and maintained.

The SWCD recommends an erosion control plan for all building sites, especially if there is a wetland or stream nearby.

Highly Erodible Soils (HEL)

Map Unit Symbol	HEL	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes – Non-HEL	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded – HEL	4.5	11.7%
Total Highly Erodible Soils		4.5	11.7%

PRIME FARMLAND SOILS

Prime farmland soils are an important resource to McHenry County. Some of the most productive soils in the United States occur locally. Each soil map unit in the United States is assigned a prime or non-prime rating. Prime agricultural land does not need to be in the production of food & fiber.

Section 310 of the NRCS general manual states that urban or built-up land on prime farmland soils is not prime farmland. The percentages of soils map units on the parcel reflect the determination that urban or built up land on prime farmland soils is not prime farmland.

Prime Farmland Soils

Map unit symbol	Map unit name	Rating	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	All areas are prime farmland	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded	All areas are prime farmland	4.5	11.7%
Total Prime Farmland			38.1	100.0%



AGRICULTURAL AREAS

The Agricultural Areas Conservation and Protect Act became effective July 1, 1980. The purpose of the Act is to provide a means by which agricultural land may be protected and enhanced as a viable segment of the State's economy and as an economic and environmental resource of major importance. Established Ag Areas tend to influence adjacent and surrounding land use changes since they are voluntary in nature and petitioned before the County Board for approval. Ag Areas are considered a high commitment to agriculture. Designated Ag Areas limit land

utilization to specified agricultural uses within their designated boundaries. Ag Areas allow landowners limited benefits such as immunity from locally enacted ordinances, which would limit farming operations and immunity from special tax assessments from local units of government.

Office Maps indicate there are no agricultural areas on or adjacent to the parcel in question.

LAND EVALUATION & SITE ASSESSMENT (LESA)

The Land Evaluation and Site Assessment system is a tool designed to evaluate the viability of agricultural lands where changes in land-use are proposed. LESA was developed as a decision-making tool used by the Zoning Board of Appeals, City Councils or County Boards to help make unbiased decisions of proper land-use. The LESA system was developed by the USDA-NRCS and takes into consideration local conditions such as physical characteristics of the land, compatibility of surrounding land-uses, urban growth factors, and land-use policies determined by local government. LESA was designed to be used in conjunction with the county's land-use plan, zoning ordinances, and other policies being used to decide land-use changes.

Decision makers use the Land Evaluation and Site Assessment (LESA) System to determine the suitability of a land use change and/or a zoning request as it relates to agricultural land. The LESA System is a two step procedure that includes:

- ◆ Land Evaluation (LE), soils value
 - ◆ Site Assessment (SA), land use
- Land Evaluation (**LE**) encompasses information regarding soils found on the site and their suitability for agricultural purposes. McHenry County soils consist of 73 different soil series ranging from gravelly loams to wet muck soils and from highly productive agricultural soils to high quality gravel deposits. For purposes of the Land Evaluation portion of the LESA system, each soil is assigned a relative value number, from 0 to 100, a 0 being the worst soils for crop production, 100 the best. Parcels containing higher percentages of higher valued soils will rate higher on the overall LESA score while those containing higher

percentages lowered value soils will rate lower in the overall LESA score. McHenry County SWCD provides a weighted average of the soils using a simple, mechanical, unbiased method of determining agricultural suitability of soils on site.

Site Assessment (SA) identifies and weighs 10 criteria, other than soils information, that contributes to the quality of a site for agricultural uses. The determination to include the specific site assessment factors directly resulted from the following:

- ◆ McHenry County Zoning Ordinance,
- ◆ 2030 Land Use Plan,
- ◆ Other adopted county policies.

In summary, the LESA evaluation addresses all factors, including soils information, together to provide a rational, consistent, and unbiased determination of the impact to agriculture from the proposed land use and zoning changes.

LAND EVALUATION (LE) WORKSHEET

Map unit symbol	Map unit name	LE Score	Acres	Percent	Weighted Ave
527B	Kidami silt loam, 2 to 4 percent slopes	79	33.6	88.3%	69.76
527C2	Kidami loam, 4 to 6 percent slopes, eroded	75	4.5	11.7%	8.78
Land Evaluation Score					78.53

Explanation of the LE Worksheet:

Symbol: is the soil type of the polygon on the soils map.

Percentage and Acreage: the percentages of the parcel, and the area that the soil polygon represents.

LE Score: the numeric value from 0 - 100 that is assigned that soil unit

Weighted Ave: The acreage multiplied by the value of that soil unit.

SITE ASSESSMENT (SA) WORKSHEET

FACTORS CONSIDERED		MAX POINTS	POINTS GIVEN	COMMENTS
1.	Percent of the same zoning classification within one and one-half (1.5) miles of the property in question.	20	10	74% - 26%
2.	Percent of the same zoning classification adjacent to the property in question.	20	10	74% - 26%
3.	Existence of natural, historic and/or cultural resources on or adjacent to the property in question.	20	20	yes
4.	Consistency of proposed use with surrounding land uses within a quarter (1/4) mile of the property in question.	20	10	Mixed use, but similar in nature to request
5.	Consistency of proposed use the McHenry County Comprehensive Plan.	20	0	Consistent with plan map and text
6.	Distance from a municipal boundary.	20	0	One and one-half (1.5) miles or less
7.	Level of emergency service.	20	0	Full time fire/rescue district
8.	Type of wetland(s) on the property in question.	20	10	ADID wetland, ADID farmed wetland, NRCS non-inventoried hydric soil(s), NRCS wetland, NRCS farmed

				wetland, or NRCS farmed wetland pasture
9.	Type of regulatory floodplain on the property in question.	20	0	No floodplain present
10.	Percentage of hydric soils on the property in question.	20	0	Less than 15%

LESA SUMMARY TABLE:

LAND EVALUATION TOTAL:	79	300 – 201 Maintain existing land use
SITE ASSESSMENT TOTAL:	60	200 – 151 High impact to existing land use and resources
TOTAL LESA SCORE:	139	150 – 101 Moderate impact to existing land use and resources
		100 – 0 Low impact to existing land use and resources

LAND USE PLANS

Many counties, municipalities, villages and townships have developed land-use plans. These plans are intended to reflect the existing and future land-use needs of a give community.

This parcel is within the McHenry County 2030 Land Use Plan Map and is identified as Estate.

DRAINAGE, RUNOFF AND FLOOD INFORMATION

U.S.G.S Topographic maps give information on elevations, which are important mostly to determine slopes, drainage directions, and watershed information.

Elevations determine the area of impact of floods of record. Slope information determines steepness and erosion potential. Drainage directions determine where water leaves the PIQ, possibly impacting surrounding natural resources.

Watershed information is given for changing land use to a subdivision type of development on parcels greater than 10 acres.

What is a watershed?

Simply stated, a watershed is the area of land that contributes water to a certain point. The point that we use on these reports is usually the point where water exits the parcel. The point is marked with a “O.” The watershed boundary is drawn in using the following marking: (— ● ● —). Often times, water will flow off the parcel in two or more directions. In that case, there is a watershed break on the parcel. (— ● ● —), and there are two or more watersheds on the parcel.

The watershed boundary is important because the area of land in the watershed can now be calculated using an irregular shape area calculator such as a dot counter or planimeter.

Using regional storm event information, and site specific soils and land use information, the peak stormwater flow through the point marked “O” for a specified storm event can be calculated. This value is called a “Q” value (for the given storm event), and is measured in cubic feet per second (CFS).

When construction occurs, the Q value naturally increases because of the increase in impermeable surfaces. This process decreases the ability of soils to accept and temporarily hold water. Therefore, more water runs off and increases the Q value.

Theoretically, if each development, no matter how large or small, maintains their preconstruction Q value after construction by the installation of stormwater management systems, the streams and wetlands and lakes will not suffer damage from excessive urban stormwater.

For this reason, the McHenry County SWCD recommends that the developer for intense uses such as a subdivision calculate the preconstruction Q value for the exit point(s). A stormwater management system should be designed, installed, and maintained to limit the postconstruction Q value to be at or below the preconstruction value.

Importance of Flood Information

A floodplain is defined as land adjoining a watercourse (riverine) or an inland depression (non-riverine) that is subject to periodic inundation by high water. Floodplains are important areas demanding protection since they have water storage and conveyance functions which affect upstream and down stream flows, water quality and quantity, and suitability of the land for human activity. Since floodplains play distinct and vital roles in the hydrologic cycle, development that interferes with their hydrologic and biologic functions should be carefully considered.

Flooding is both dangerous to people and destructive to their properties. The following maps, when combined with wetland and topographic information, can help developers and future homeowners to “sidestep” potential flooding or ponding problems.

FIRM is the acronym for the Flood Insurance Rate Map, produced by the Federal Emergency Management Agency. These maps define flood elevation adjacent to tributaries and major bodies of water, and superimpose that onto a simplified USGS topographic map. The scale of the FIRM maps is generally dependent on the size and density of parcels in that area. (This is to correctly determine the parcel location and flood plain location.) The FIRM map has three (3) zones. A is the zone of 100 year flood, zone B is the 100 to 500 year flood, and zone C is outside the flood plain.

The Hydrologic Atlas (H.A.) Series of the Flood of Record Map is also used for the topographic information. This map is different from the FIRM map mainly because it will show isolated, or pocketed flooded areas. McHenry County uses both these maps in conjunction with each other for flooded area determinations. The Flood of

Record maps, show the areas of flood for various years. Both of these maps stress that the recurrence of flooding is merely statistical. That is to say a 100-year flood may occur twice in one year, or twice in one week, for that matter.

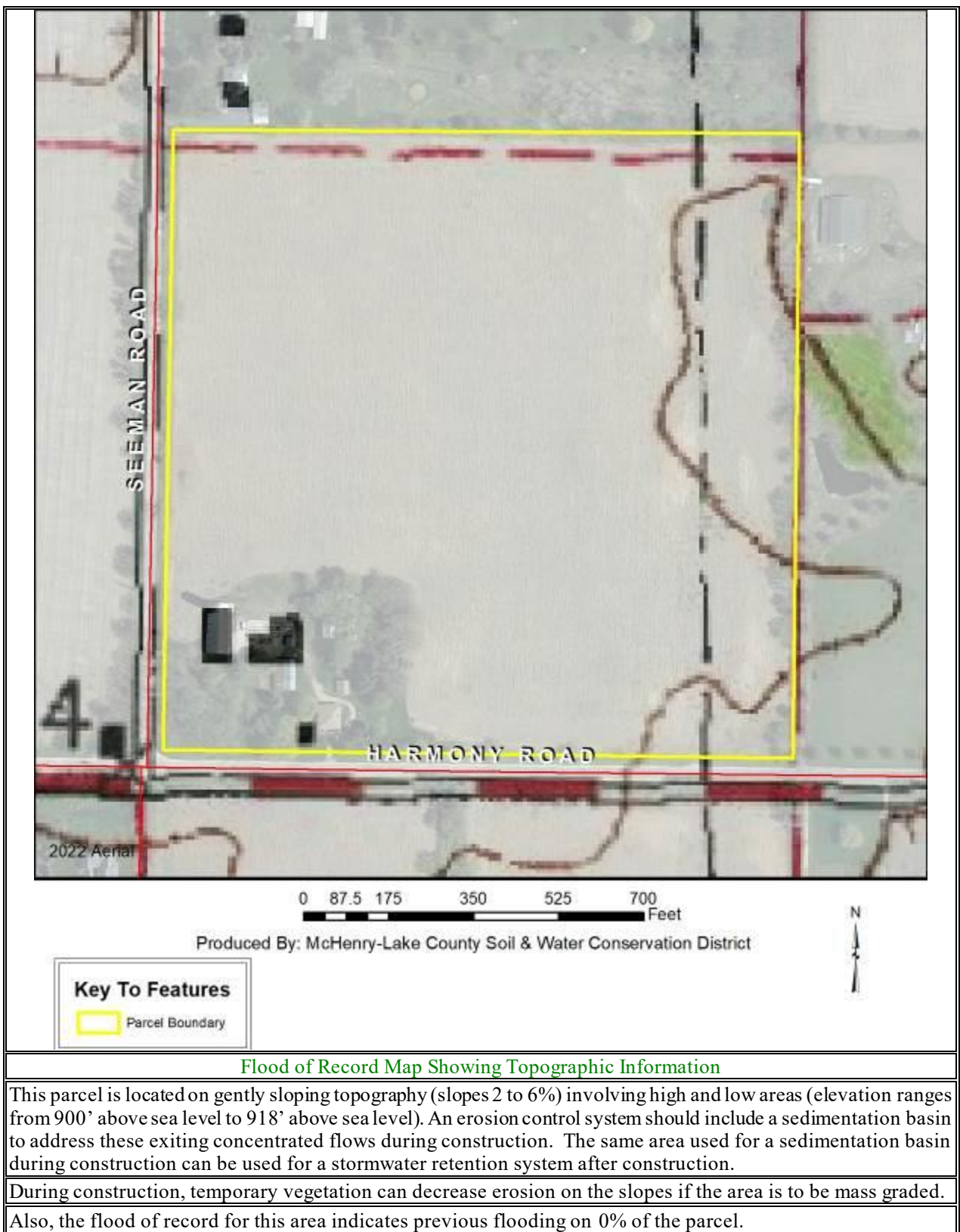
It should be noted that greater floods than those shown on the two maps are possible. The flood boundaries indicated provide a historic record only until the map publication date.

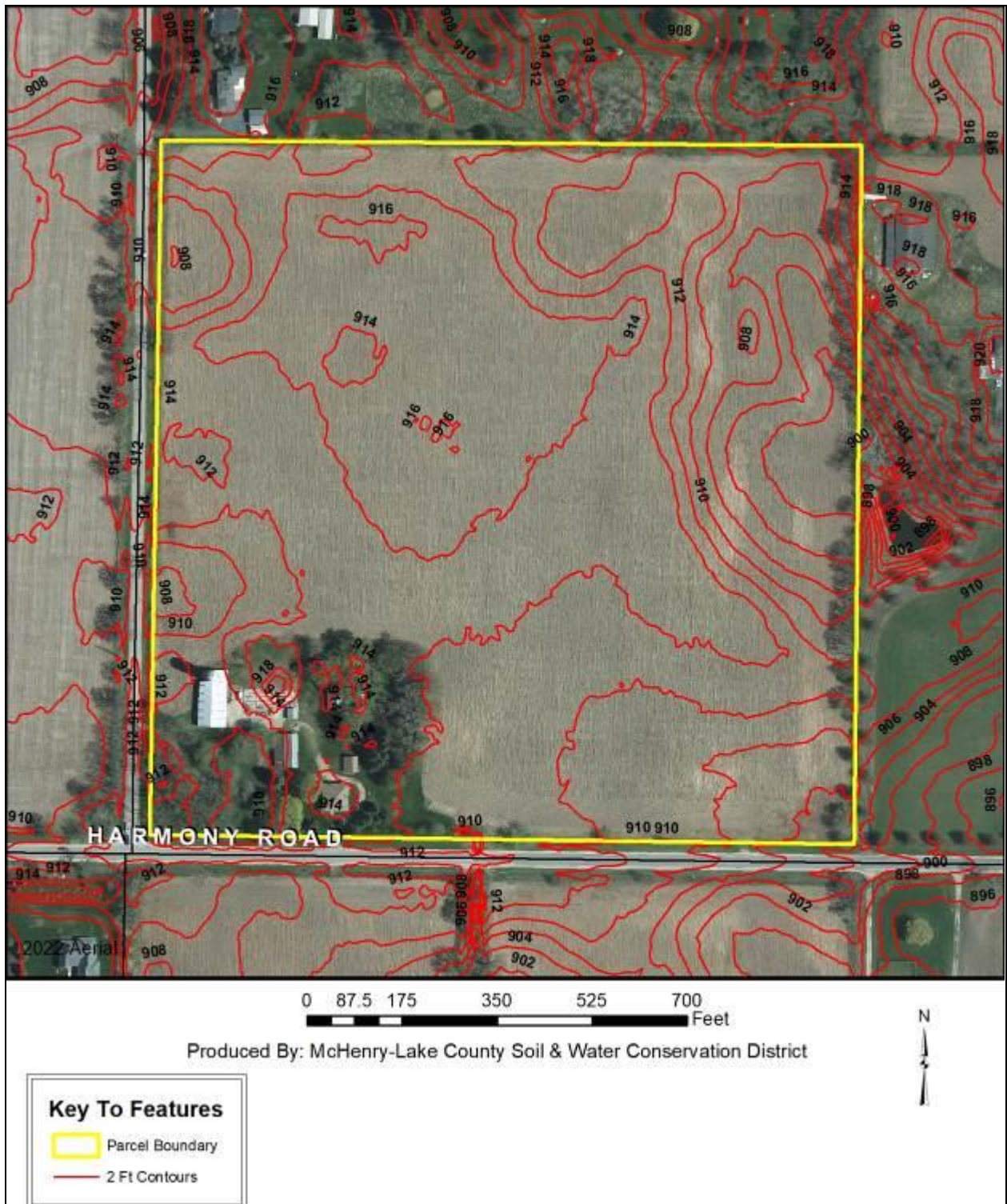
Additionally, these flood boundaries are a function of the watershed conditions existing when the maps were produced. Cumulative changes in runoff characteristics caused by urbanization can result in an increase in flood height of future flood episodes.

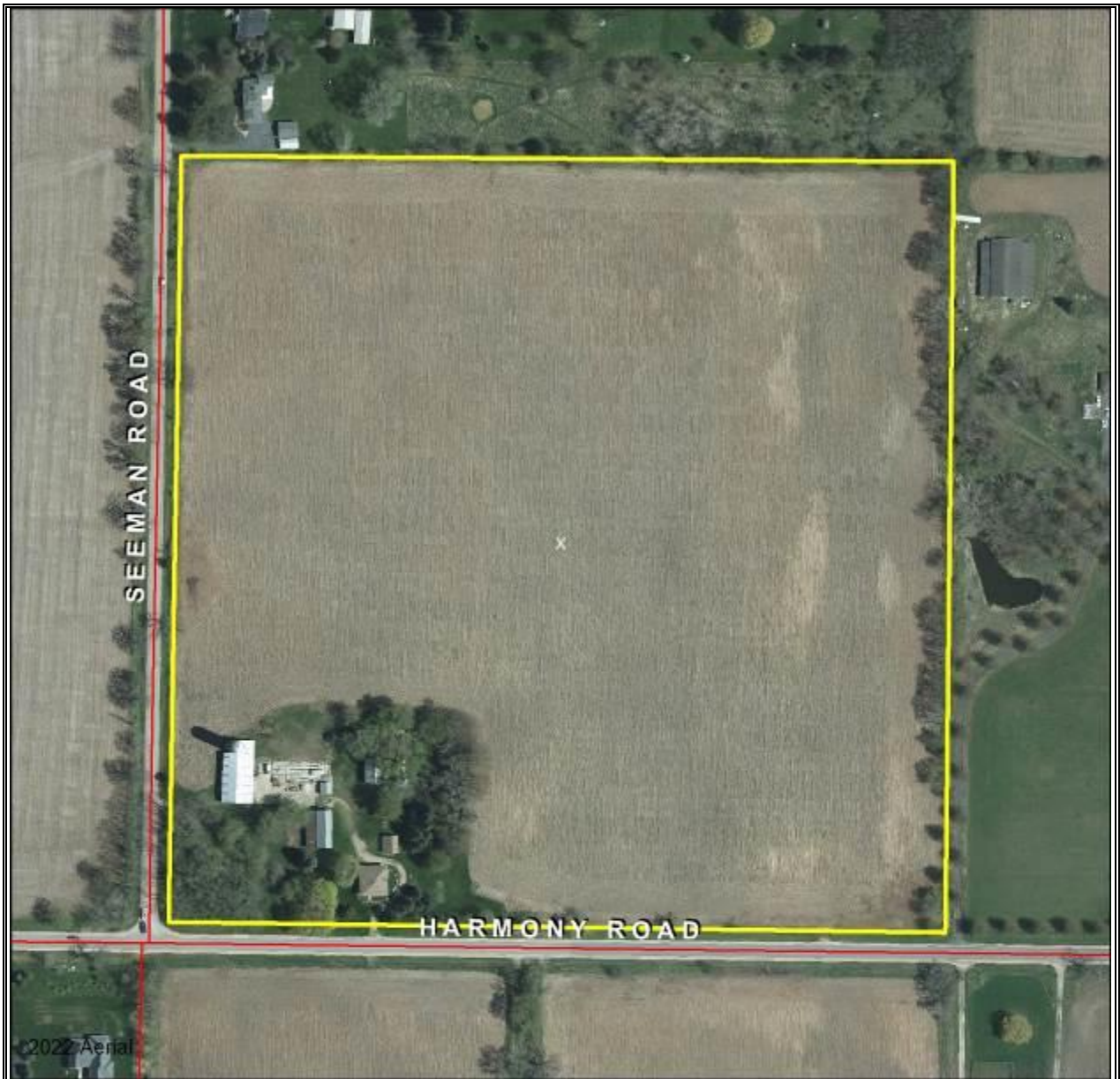
Floodplains play a vital role in reducing the flood damage potential associated with an urbanizing area and, when left in an undisturbed state, also provide valuable wildlife habitat benefits. If it is the petitioner's intent to conduct floodplain filling or modification activities, the petitioner and the Unit of Government responsible need to consider the potentially adverse effects this type of action could have on adjacent properties. The change or loss of natural floodplain storage often increases the frequency and severity of flooding on adjacent property.

If the available maps indicate the presence of a floodplain on the PIQ, the petitioner should contact the IDOT-DWR and FEMA to delineate a floodplain elevation for the parcel. If a portion of the property is indeed floodplain, applicable state, county and local regulations will need to be reflected in the site plans.

Another indication of flooding potential can be found in the soils information. Hydric soils indicate the presence of drainageways, areas subject to ponding, or a naturally occurring high water table. These need to be considered along with the floodplain information when developing the site plan and the stormwater management plan. If the site does include these hydric soils and development occurs, thus raising the concerns of the loss of water storage in these soils and the potential for increased flooding in the area.







0 87.5 175 350 525 700 Feet

Produced By: McHenry-Lake County Soil & Water Conservation District



Key To Features



Parcel Boundary

FEMA Floodplain

Flood Zone



0.2 PCT ANNUAL CHANCE FLOOD HAZARD



100 yr



100 yr with base flood elevations determined



100 yr with 1-3 ft. flood depths



100 yr usually sheet flow

Federal Emergency Management Agency: Flood Insurance Rate Map Panel 17111C0315J

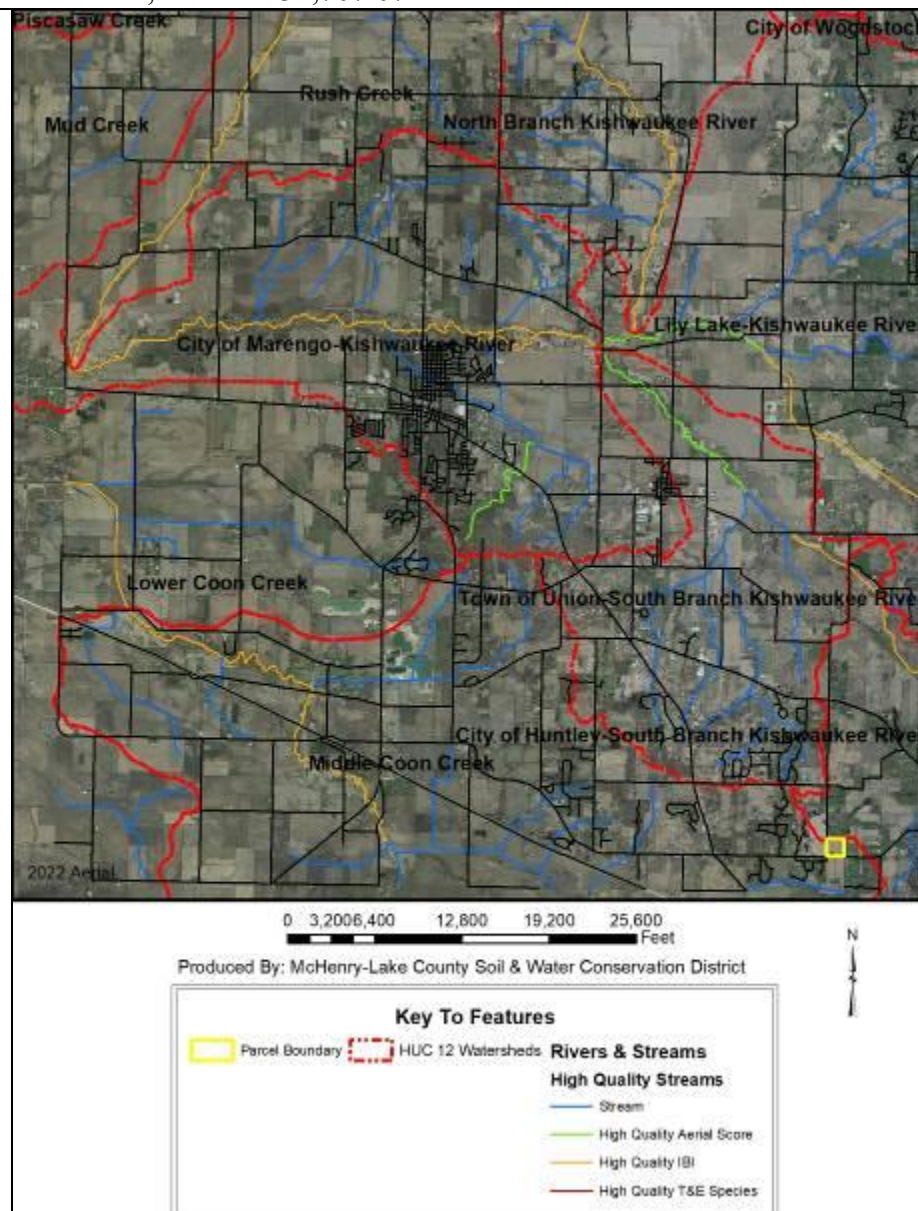
The map indicates the parcel is outside of the 100-year floodplain.

WATERSHED PLANS

Watershed and Subwatershed Information

A watershed is the area of land that drains into a specific point including a stream, lake or other body of water. High points on the Earth's surface, such as hills and ridges define watersheds. When rain falls in the watershed, it flows across the ground towards a stream or lake. Rainwater carries any pollutants it comes in contact with such as oils, pesticides, and soil. Everyone lives in a watershed. Their actions can impact natural resources and people living downstream. Residents can minimize this impact by being aware of their environment and implications of their activities, implementing practices recommended in watershed plans and educating others about their watershed.

The parcel is within the Middle Coon Creek Subwatershed (HUC 12 – 17111C0315J) of the Coon Creek Watershed, which is 31,767.67 acres in size.



WETLAND INFORMATION

Importance of Wetland Information

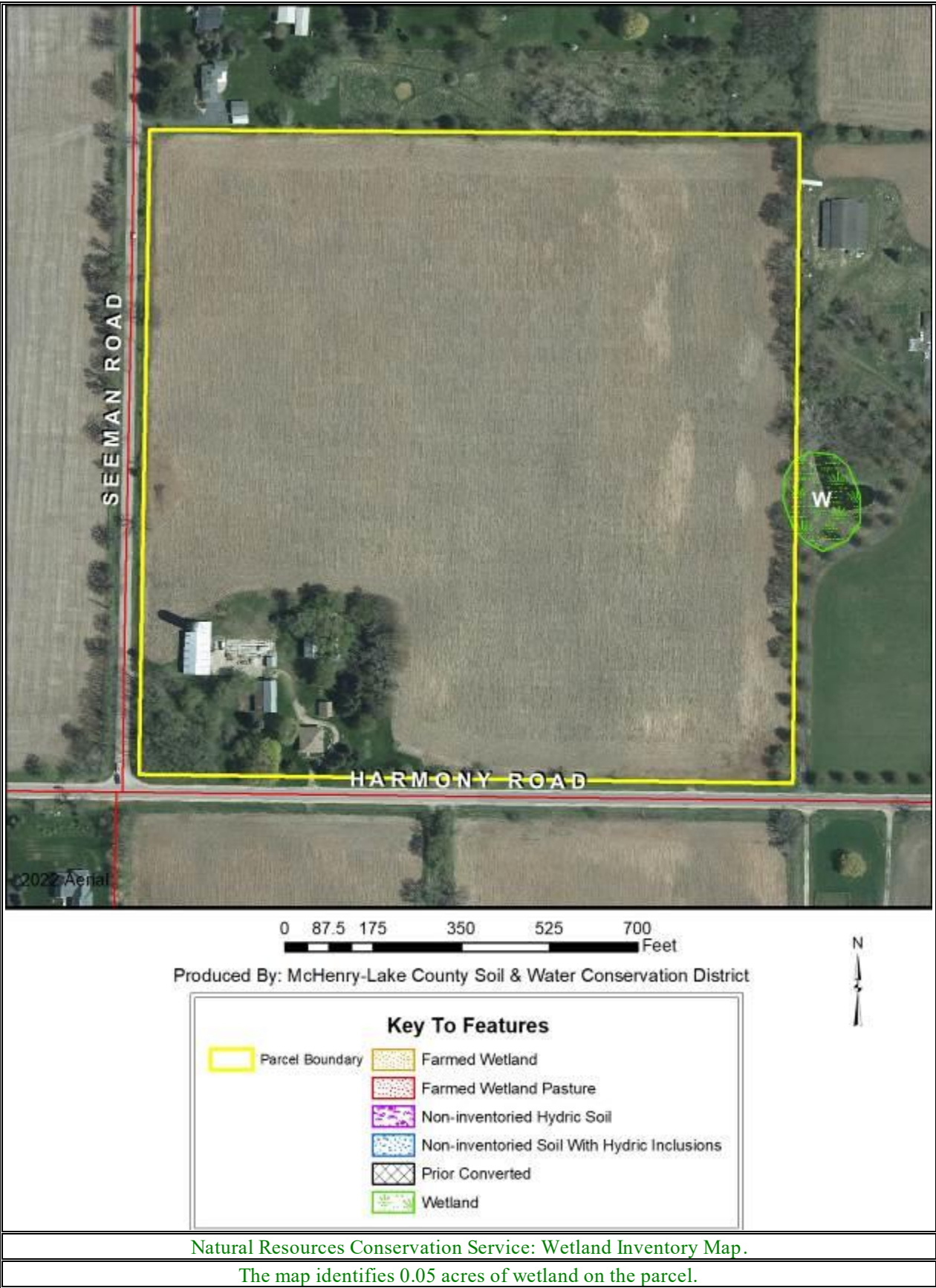
Wetlands function in many ways to provide numerous benefits to society. They control flooding by offering a slow release of excess water downstream or through the soil. They cleanse water by filtering out sediment and some pollutants, and can function as rechargers of our valuable groundwater. They also are essential breeding, rearing, and feeding grounds for many species of wildlife.

These benefits are particularly valuable in urbanizing areas as development activity typically adversely affects water quality, increases the volume of stormwater runoff, and increases the demand for groundwater. In an area where many individual homes rely on shallow groundwater wells for domestic water supplies, activities that threaten potential groundwater recharge areas are contrary to the public good. The conversion of wetlands, with their sediment trapping and nutrient absorbing vegetation, to biologically barren stormwater detention ponds can cause additional degradation of water quality in downstream or adjacent areas.

It has been estimated that over 95% of the wetlands that were historically present in Illinois have been destroyed while only recently has the true environmental significance of wetlands been fully recognized. America is losing 100,000 acres of wetland a year, and has saved 5 million acres total (since 1934). One acre of wetland can filter 7.3 million gallons of water a year. These are reasons why our wetlands are high quality and important.

This section contains the NRCS (Natural Resources Conservation Service) Wetlands Inventory, which is the most comprehensive inventory to date. The NRCS Wetlands Inventory is reproduced from an aerial photo at a scale of 1" equals 660 feet. The NRCS developed these maps in cooperation with U.S. EPA (Environmental Protection Agency,) and the U.S. Fish and Wildlife Service, using the National Food Security Act Manual, 3rd Edition. The main purpose of these maps is to determine wetland areas on agricultural fields and areas that may be wetlands but are in a non-agriculture setting.

The NRCS Wetlands Inventory in no way gives an exact delineation of the wetlands, but merely an outline, or the determination that there is a wetland within the outline. For the final, most accurate wetland **determination** of a specific wetland, a wetland delineation must be certified by NRCS staff using the National Food Security Act Manual (on agricultural land.) On urban land, a certified wetland delineator must perform the delineation using the ACOE 1987 Manual. *See the glossary section for the definitions of "delineation" and "determination."*



ADID (ADVANCED IDENTIFICATION OF AQUATIC RESOURCES)

Wetlands are some of the most productive and diverse ecological systems on Earth. The unique characteristics of plants, soils, and water distinguish these systems. Marshes, wet meadows, fens and bogs are some of the common wetland types found within McHenry County. There are also various streams scattered throughout the county, including several that rank among the highest quality in Illinois.

These wetlands, lakes and streams provide needed habitat and food for fish and wildlife. Diverse plants both common and rare are can be found in wetlands, and over 40 percent of Illinois' threatened and endangered plant and animal species rely on wetlands.

Wetlands have many other roles. They are critical to the control of flooding by storing vast quantities of runoff water during floods, and releasing it slowly to rivers and streams as the floodwater recedes. This in turn helps to prevent erosion in downstream channels, aids in groundwater recharge, and stabilizes the baseflow in streams and rivers. Wetlands are also crucial in protecting water quality. Wetlands that border lakes and streams prevent erosion by holding soil in place and deflecting erosive flows and waves.

They also remove sediment, nutrients, and toxic chemicals from runoff water.

Other benefits include groundwater recharge, discharge of clean water, recreation, enhancement of natural aesthetics and serve as buffers between adjacent developments.

This program designed by the EPA (Environmental Protection Agency), is intended to improve awareness of the functions and values of wetlands and other U.S. waters. It is also intended to inform landowners and developers that high quality sites may not be unsuitable for the disposal of dredged or fill material. These ADID projects can also provide guidance on the long-term protection and management of aquatic resources.

The wetland boundaries shown are not jurisdictional delineations. Any proposed drainage work in wet areas requires a certified wetland determination.

The ADID study identifies 0.05 acres of wetland C 227 on the parcel in question. (Map shown on next page.)



Hydric Soils

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated

or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field.

These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States. Federal Register. September 18, 2002. Hydric soils of the United States.

Soils information gives another indication of flooding potential. The soils map on this page indicates the soil(s) on the parcel that the Natural Resources Conservation Service indicates as hydric. Hydric soils by definition have seasonal high water at or near the soil surface and/or have potential flooding or ponding problems. All hydric soils range from poorly suited to unsuitable for building. One group of the hydric soils, are the organic soils, which formed from dead organic material. Organic soils are unsuitable for building because of not only the high water table, but also their subsidence problems.

It is also important to add the possibility of hydric inclusions in a soil type. An inclusion is a soil polygon that is too small to appear on these maps. While relatively insignificant for agricultural use, hydric soil inclusions become more important to more intense uses such as a residential subdivision.

While considering hydric soils and hydric inclusions, it is noteworthy to mention that subsurface agriculture drainage tile occurs in

almost all poorly drained and somewhat poorly drained soils. Drainage tile expedites drainage and facilitates farming. It is imperative that these drainage tiles remain undisturbed. A damaged subsurface drainage tile may return original hydrologic conditions to all of the areas that drained through the tile (ranging from less than one acre to many square miles.)

For an intense land use, such as a subdivision, the McHenry County SWCD recommends the following:

1. A topographical survey with 1 foot contour intervals to accurately define the flood area on the parcel.
2. An intensive soil survey to define most accurately the locations of the hydric soils and inclusions
3. A drainage tile survey on the area to locate the tiles that must be preserved.

In general, the District does not recommend building on hydric soils because of the unfavorable properties they exhibit and because of their long term, negative effects on the structures built.

Hydric Rating by Map Unit				
Map unit symbol	Map unit name	Rating	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	0	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded	0	4.5	11.7%
Total Hydric			0.0	0.0%



FLOODING FREQUENCY

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent.

"None" means that flooding is not probable. The chance of flooding is nearly 0 percent in any year. Flooding occurs less than once in 500 years.

"Very rare" means that flooding is very unlikely but possible under extremely unusual weather conditions. The chance of flooding is less than 1 percent in any year.

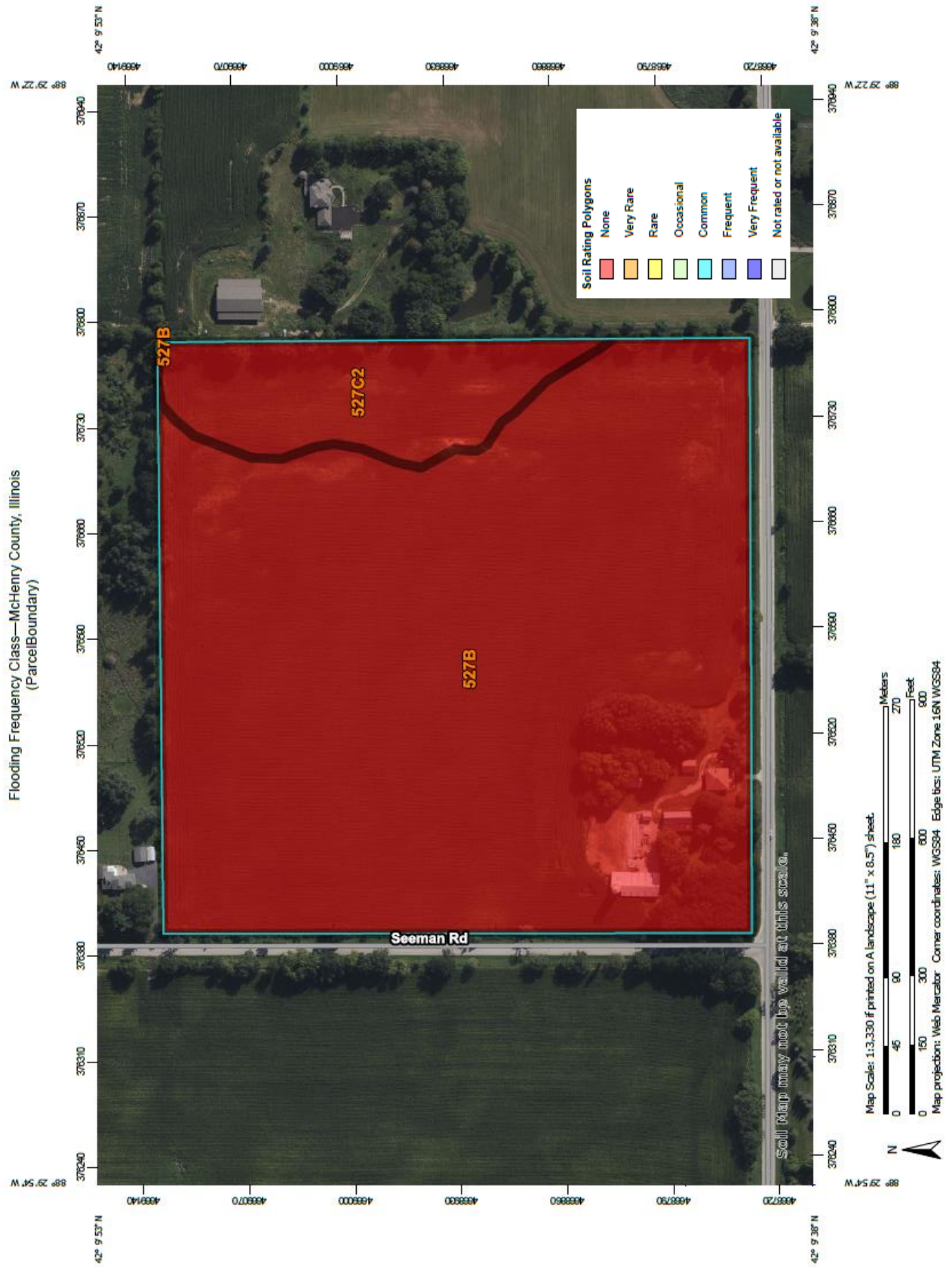
"Rare" means that flooding is unlikely but possible under unusual weather conditions. The chance of flooding is 1 to 5 percent in any year.

"Occasional" means that flooding occurs infrequently under normal weather conditions. The chance of flooding is 5 to 50 percent in any year.

"Frequent" means that flooding is likely to occur often under normal weather conditions. The chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year.

"Very frequent" means that flooding is likely to occur very often under normal weather conditions. The chance of flooding is more than 50 percent in all months of any year.

Flooding Frequency Class				
Map unit symbol	Map unit name	Rating	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	None	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded	None	4.5	11.7%
Total Flooding			0.0	0.0%



PONDING FREQUENCY

Ponding is standing water in a closed depression. The water is removed only by deep percolation, transpiration, or evaporation or by a combination of these processes. Ponding frequency classes are based on the number of times that ponding occurs over a given period. Frequency is expressed as none, rare, occasional, and frequent.

"None" means that ponding is not probable. The chance of ponding is nearly 0 percent in any year.

"Rare" means that ponding is unlikely but possible under unusual weather conditions. The chance of ponding is nearly 0 percent to 5 percent in any year.

"Occasional" means that ponding occurs, on the average, once or less in 2 years. The chance of ponding is 5 to 50 percent in any year.

"Frequent" means that ponding occurs, on the average, more than once in 2 years. The chance of ponding is more than 50 percent in any year.

Ponding Frequency Class				
Map unit symbol	Map unit name	Rating	Acres	Percent
527B	Kidami silt loam, 2 to 4 percent slopes	None	33.6	88.3%
527C2	Kidami loam, 4 to 6 percent slopes, eroded	None	4.5	11.7%
Total Ponding			0.0	0.0%



WETLAND AND FLOODPLAIN REGULATIONS

PLEASE READ THE FOLLOWING IF YOU ARE PLANNING TO DO ANY WORK NEAR A STREAM (THIS INCLUDES SMALL UNNAMED STREAMS), LAKE, WETLAND OR FLOODWAY.

The laws of the United States and the State of Illinois assign certain agencies specific and different regulatory roles to protect the waters within the State's boundaries. These roles, when considered together, include protection of navigation channels and harbors, protection against flood way encroachments, maintenance and enhancement of water quality, protection of fish and wildlife habitat and recreational resources, and, in general, the protection of total public interest. Unregulated use of the waters within the State of Illinois could permanently destroy or alter the character of these valuable resources and adversely impact the public. Therefore, please contact the proper regulatory authorities when planning any work associated with Illinois waters so that proper consideration and approval can be obtained.

WHO MUST APPLY

Anyone proposing to dredge, fill, rip rap, or otherwise alter the banks or beds of, or construct, operate, or maintain any dock, pier, wharf, sluice, dam, piling, wall, fence, utility, flood plain or flood way subject to County, State or Federal regulatory jurisdiction should apply for agency approvals.

REGULATORY AGENCIES:

- ◆ **Wetlands or U.S. Waters:** U.S. Army Corps of Engineers, Chicago District, 231 S. LaSalle St., Suite 1500 Chicago, IL 60604 Phone: (312) 846-5330
- ◆ **Isolated Wetlands and Floodplain:** McHenry County Department of Planning & Development Stormwater Division, 2200 N. Seminary Ave., Woodstock, IL 60098 Phone: (815) 334-4560
- ◆ **Flood plains:** Illinois Department of Natural Resources \ Office of Water Resources, 201 W. Center Court, Schaumburg, IL 60196-1096, phone (847).705.
- ◆ **Water Quality \ Erosion Control:** Illinois Environmental Protection Agency, Division of Water Pollution Control, Permit Section, Watershed Unit, 2200 Churchill Road, Springfield, IL 62706, phone (217).782.0610.

COORDINATION

We recommend Early coordination with the regulatory agencies BEFORE finalizing work plans. This allows the agencies to recommend measures to mitigate or compensate for adverse impacts. Also, the agency can make possible environmental enhancement provisions early in the project planning stages. This could reduce time required to process necessary approvals.

CAUTION: Contact with the United States Army Corps of Engineers is strongly advised before commencement of any work in or near a water of the United States. This could save considerable time and expense. Persons responsible for willful and direct violation of Section 10 of the River And Harbor Act of 1899 or Section 404 of the Federal Water Pollution Control Act are subject to fines ranging up to \$27,500 per day of violation and imprisonment for up to one year or both.

Conservation Design Ordinance

On February 19, 2008 the McHenry County Board passed the Conservation Design Ordinance as an addendum to the McHenry County Subdivision Ordinance. The purpose of this ordinance is to preserve the integrity of the land and its natural functions; To enhance community character and access to nature and open space for children and families; To conserve open space and sensitive natural features; To preserve and restore remnant wetlands, woodlands, savannas, and prairies and provide for the long-term ecologic management of these areas; To preserve the hydrologic condition and infiltrative capability of the soil by minimizing mass grading and impervious surfaces; To preserve natural groundwater recharge functions and protect the quality of surface water and groundwater; To minimize stormwater runoff and associated flooding and erosion; To provide diverse lot sizes, building densities, and housing choices; To create neighborhoods with views of open land and with a strong neighborhood identity; To preserve important historic and archeological sites; To conserve scenic views and elements of the county's rural character; To promote interconnected greenways and wildlife corridors throughout the county; To provide convenient walking trails and bike paths within subdivisions and connecting to neighboring communities and businesses; To reduce infrastructure costs and the cost of public services required for new development, improve housing affordability, and enhance property values; and to create more livable and sustainable communities. (Please contact the McHenry County Planning and Development Department for copies or questions on this ordinance.)

For the purposes of this ordinance, the McHenry County Soil & Water Conservation District will evaluate parcels that are requesting a zoning change to Estate or Residential zoning, to see if they contain the natural resource features which will require conservation design. The features that will be evaluated include both automatic triggers and cumulative triggers as described below.

Automatic Triggers

The site contains or abuts within 100 feet:

- A designated McHenry County Natural Area Inventory site (MCNAI).
- A high quality stream, river or lake as identified in the McHenry County ADID Wetland Inventory.

Cumulative Triggers

The site contains or abuts within 200 feet, the flowing areas whose cumulative acreage equals or exceeds 20 percent of the total area of the site and the 200 foot abutting zone:

- Regulatory wetlands, farmed wetlands are excluded
- FEMA 100-year floodplain and/or areas designated as previously flooding on the Flood of Record (Historic Atlas) Map
- Glacial kettle holes (site visit for determination) *Petitioner will need to have a consultant determine the existence of the glacial kettle hole. Our investigation will only indicate the possibility of the site containing a glacial kettle hole.
- Native woodlands and savannas (we will use McHenry County Conservation District's Oak Distribution Study and site visit for determination). *Petitioner will need to have a consultant determine the composition of the woodland/savanna. Our investigation will only indicate the possibility of the site containing a native woodland or savanna.
- Remnant prairies (site visit for determination) *Petitioner will need to have a consultant determine the composition of the prairie. Our investigation will only indicate the possibility of the site containing a remnant prairie.
- Excessively permeable soils (identified as highly permeable soils in this report)
- High Soil Leaching Potential
- High potential for aquifer contamination as identified by the State Geological Survey in Circular 559, "Geologic Mapping for Environmental Planning, McHenry County.
- Soils with "E" slopes and greater
- Depressional Hydric Soils
- State designated Class III Groundwater Areas
- Publicly owned or private deed-restricted natural open spaces and preserves

***The site does not meet the Automatic or Cumulative Triggers for Conservation Design.**

THREATENED & ENDANGERED SPECIES

The State of Illinois provides habitat for 500 threatened and endangered species, including 356 plants and 144 animals. Twelve counties in Illinois have 50 or more endangered species, 5 of which are in northeastern Illinois. ("Endangered Species of Illinois," by the U.S. Fish & Wildlife Service, IDOC Division of Natural Heritage & Endangered Species Protection Board).

Approximately 40% of the state's listed species depend on wetlands for survival. The two main causes for species decline are the loss of habitat and the degradation of habitat. While habitat loss is the primary reason species become endangered, the effects of habitat change are not always seen overnight. It is seldom simply a case of individual animals or plants being killed. More often, habitat loss and the resulting species declines are indirectly caused and are the result of cumulative impacts over a period of time.

It is because of this slow encroachment of habitat degradation, fragmentation and loss that wildlife habitat must be looked at on a greater scale than just

the site. Cumulative impacts occur because a small amount of damage is being done over here and little over there and no one is looking at the whole picture. Thus, the villages and county are strongly encouraged to look at habitat management on a regional scale.

THERE IS A POSSIBILITY FOR ENDANGERED SPECIES ON THE SITE. IF A REQUEST HAS NOT ALREADY BEEN SUBMITTED, THE PETITIONER SHOULD ASK THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES TO CHECK THIS PARCEL FOR THE PRESENCE OF THREATENED OR ENDANGERED SPECIES. SHOULD ANY SUCH SPECIES BE IDENTIFIED AS UTILIZING THIS PARCEL, THE PETITIONER WILL BE NOTIFIED ACCORDINGLY. FOR MORE INFORMATION ON HOW TO REQUEST AN ENDANGERED SPECIES CHECK ON THIS PARCEL, PLEASE VISIT

www.dnrecocat.state.il.us/ecopublic.

GLOSSARY

AGRICULTURAL PROTECTION AREAS (AG AREAS)

- Allowed by P.A. 81-1173. An AG AREA consists of a minimum of 350 acres of farmland, as contiguous and compact as possible. Petitioned by landowners, AG AREAS protect for a period of ten years initially, then reviewed every eight years thereafter. AG AREA establishment exempts landowners from local nuisance ordinances directed at farming operations, and designated land can not receive special tax assessments on public improvements that do not benefit the land, e.g. water and sewer lines.

AGRICULTURE - The growing, harvesting and storing of crops including legumes, hay, grain, fruit and truck or vegetable including dairying, poultry, swine, sheep, beef cattle, pony and horse production, fur farms, and fish and wildlife farms; farm buildings used for growing, harvesting and preparing crop products for market, or for use on the farm; roadside stands, farm buildings for storing and protecting farm machinery and equipment from the elements, for housing livestock or poultry and for preparing livestock or poultry products for market; farm dwellings occupied by farm owners, operators, tenants or seasonal or year around hired farm workers.

B.G. - Below Grade. Under the surface of the Earth.

BEDROCK - Indicates depth at which bedrock occurs. Also lists hardness as rippable or hard.

FLOODING - Indicates frequency, duration, and period during year when floods are likely to occur.

HIGH LEVEL MANAGEMENT - The application of effective practices adapted to different crops, soils, and climatic conditions. Such practices include providing for adequate soil drainage, protection from flooding, erosion and runoff control, near optimum tillage, and planting the correct kind and amount of high quality seed. Weeds, diseases, and harmful insects are controlled. Favorable soil reaction and near optimum levels of available nitrogen, phosphorus, and potassium for individual crops are maintained. Efficient use is made of available crop residues, barnyard manure, and/or green manure crops. All operations, when combined efficiently and timely, can create favorable growing conditions and reduce harvesting losses -- within limits imposed by weather.

HIGH WATER TABLE - A seasonal high water table is a zone of saturation at the highest average

depth during the wettest part of the year. May be apparent, perched, or artesian kinds of water tables.

Water Table, Apparent - A thick zone of free water in the soil. An apparent water table is indicated by the level at which water stands in an uncased borehole after adequate time is allowed for adjustment in the surrounding soil.

Water Table, Artesian - A water table under hydrostatic head, generally beneath an impermeable layer. When this layer is penetrated, the water level rises in an uncased borehole.

Water Table, Perched - A water table standing above an unsaturated zone. In places an upper, or perched, water table is separated from a lower one by a dry zone.

DELINEATION - For Wetlands: A series of orange flags placed on the ground by a certified professional that outlines the wetland boundary on a parcel.

DETERMINATION - A polygon drawn on a map using map information that gives an outline of a wetland.

HYDRIC SOIL - This type of soil is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part (USDA Natural Resources Conservation Service 1987)

INTENSIVE SOIL MAPPING - Mapping done on a smaller more intensive scale than a modern soil survey to determine soil properties of a specific site, e.g. mapping for septic suitability.

LAND EVALUATION AND SITE

ASSESSMENT (L.E.S.A.) - LESA is a systematic approach for evaluating a parcel of land and to determine a numerical value for the parcel for farmland preservation purposes.

MODERN SOIL SURVEY - A soil survey is a field investigation of the soils of a specific area, supported by information from other sources. The kinds of soil in the survey area are identified and their extent shown on a map, and an accompanying report describes, defines, classifies, and interprets the soils. Interpretations predict the behavior of the soils under different used and the soils' response to management. Predictions are made for areas of soil at specific places. Soils information collected in a soil survey is useful in developing land-use plans and alternatives involving soil management systems and in evaluating and predicting the effects of land use.

PALUSTRINE - Name given to inland fresh water wetlands

PERMEABILITY - Values listed estimate the range (in rate and time) it takes for downward movement of water in the major soil layers when saturated, but allowed to drain freely. The estimates are based on soil texture, soil structure, available data on permeability and infiltration tests, and observation of water movement through soils or other geologic materials.

PIQ - Parcel in question

POTENTIAL FROST ACTION - Damage that may occur to structures and roads due to ice lens formation causing upward and lateral soil movement. Based primarily on soil texture and wetness.

PRIME FARMLAND - Prime farmland soils are lands that are best suited to food, feed, forage, fiber and oilseed crops. It may be cropland, pasture, woodland, or other land, but it is not urban and built up land or water areas. It either is used for food or fiber or is available for those uses. The soil qualities, growing season, and moisture supply are those needed for a well managed soil economically to produce a sustained high yield of crops. Prime farmland produces in highest yields with minimum inputs of energy and economic resources, and farming the land results in the least damage to the environment.

Prime farmland has an adequate and dependable supply of moisture from precipitation or irrigation. The temperature and growing season are favorable. The level of acidity or alkalinity is acceptable. Prime farmland has few or no rocks and is permeable to water and air. It is not excessively erodible or saturated with water for long periods and is not frequently flooded during the growing season. The slope ranges mainly from 0 to 5 percent. (Source USDA Natural Resources Conservation Service)

PRODUCTIVITY INDEXES - Productivity indexes for grain crops express the estimated yields of the major grain crops grown in Illinois as a single percentage of the average yields obtained under basic management from several of the more productive soils in the state. This group of soils is composed of the Muscatine, Ipava, Sable, Lisbon, Drummer, Flanagan, Littleton, Elburn and Joy soils. Each of the 425 soils found in Illinois are found in Circular 1156 from the Illinois Cooperative Extension Service.

SEASONAL - When used in reference to wetlands indicates that the area is flooded only during a portion of the year.

SHRINK-SWELL POTENTIAL - Indicates volume changes to be expected for the specific soil material with changes in moisture content.

SOIL MAPPING UNIT - A map unit is a collection of soil areas of miscellaneous areas delineated in mapping. A map unit is generally an aggregate of the delineations of many different bodies of a kind of soil or miscellaneous area but may consist of only one delineated body. Taxonomic class names and accompanying phase terms are used to name soil map units. They are described in terms of ranges of soil properties within the limits defined for taxa and in terms of ranges of taxadjuncts and inclusions.

SOIL SERIES - A group of soils, formed from a particular type of parent material, having horizons that, except for texture of the A or surface horizon, are similar in all profile characteristics and in arrangement in the soil profile. Among these characteristics are color, texture, structure, reaction, consistence, and mineralogical and chemical composition.

SUBSIDENCE - Applies mainly to organic soils after drainage. Soil material subsides due to shrinkage and oxidation.

TERRAIN - The area or surface over which a particular rock or group of rocks is prevalent.

TOPSOIL - That portion of the soil profile where higher concentrations of organic material, fertility, bacterial activity and plant growth take place. Depths of topsoil vary between soil types.

WATERSHED - An area of land that drains to an associated water resource such as a wetland, river or lake. Depending on the size and topography, watersheds can contain numerous tributaries, such as streams and ditches, and ponding areas such as detention structures, natural ponds and wetlands.

WETLAND - An area that has a predominance of hydric soils and that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances does support, a prevalence of

hydrophytic vegetation typically adapted for life

in saturated soil conditions.

REFERENCES

- A Citizens' Guide to Protecting Wetlands. By
The National Wildlife Federation.
Washington, D.C., March 1989
- Agricultural Areas Inventory
McHenry County Soil & Water
Conservation District
- FIRM - Flood Insurance Rate Maps for
McHenry County. Prepared by FEMA -
Federal Emergency Management
Agency.
- Flood of Record (Hydrologic Atlas) for
McHenry County
U.S. Geologic Survey
- Geologic Mapping for Environmental Planning.
McHenry County, Illinois. Department
of Natural Resources Illinois State
Geological Survey, Circular 559, 1997
- Geology For Planning in Boone and Winnebago
Counties. State Geological Survey
Division, Circular 531. 1984
- Hydrologic Unit Map for McHenry County.
Natural Resources Conservation
Service, United States Department of
Agriculture
- Hydric Soils of the United States. USDA
Natural Resources Conservation
Service, 1987.
- Illinois Natural Areas Inventory
Illinois Department of Natural
Resources
- Land Evaluation and Site Assessment System.
2005. The McHenry County
Department of Planning and McHenry
County Soil and Water Conservation
District. In cooperation with: USDS,
Natural Resources Conservation Service
- McHenry County Advanced Identification of
Wetlands (ADID)
Northeastern Illinois Planning
Commission
- McHenry County Health Code relating to septic
system suitability
- McHenry County 2030 Land Use Plan
McHenry County Dept. of Planning and
Development
- McHenry County Natural Areas Inventory
McHenry County Conservation District
- McHenry County, Illinois Fire Protection
Districts
McHenry County Dept. of Planning and
Development
- McHenry County, Illinois Historic Landmarks
McHenry County Historic Preservation
Committee
- Natural Resources Conservation Service
Wetland Inventory Map. United States
Department of Agriculture
- The Conservation of Biological Diversity in the
Great Lakes Ecosystem: Issues and
Opportunities, prepared by the Nature
Conservancy Great Lakes Program
79W. Monroe Street, Suite 1309,
Chicago, IL 60603, January 1994
- Wetlands - The Corps of Engineers'
Administration of the Section 404
Program July 1988 (GAO/RCED-88-
110)
- Soil Erosion by Water - United States
Department of Agriculture Natural
Resources Conservation Service.
Agriculture Information Bulletin 513.
- Soil Survey of McHenry County, Illinois Part 1
and Part 2
Natural Resources Conservation
Service, United States Department of
Agriculture.

Staff Report for the McHenry County Zoning Board of Appeals

Application: #Z25-0096

PIN: PIN 07-12-400-026

Address: 4319 McCauley Rd, Woodstock

Request: Reclassification from A-1 Agriculture District to E-3 Estate District.

Hearing: November 13, 2025

Applicants: LJW LLC

Location: The subject property is located on the west side of McCauley Road, approximately one thousand seven hundred seventy (1,770) feet north of the intersection of McCauley Road with Jankowski Road, with a common address of 4319 McCauley Road, Woodstock, Illinois, in Hartland Township.

Aerial Map



Elevation

(feet above sea level)

- 10-foot contours
- 2-foot contours

ADID Wetland Map 2005

- High Functional Value Wetland (hfw)
- High Quality Wetland (hqw)
- Wetland (w)
- Farmed Wetland (fw)

FEMA Flood Hazard Areas

- 0.2 % Annual Chance of Flood
- 1% Annual Chance of Flood
- Floodway

Feet 125 62.5 0 125 250
1 inch equals 250 feet



Staff Report for the McHenry County Zoning Board of Appeals

STAFF COMMENTS

The following comments and conclusions are based upon staff analysis and review prior to this hearing and are to be considered viable unless evidence is established to the contrary. Staff may have additional comments based upon the testimony presented during the public hearing.

BACKGROUND & REQUEST SUMMARY

The applicant is requesting a map amendment to rezone approximately three (3) acres of a larger five point zero four (5.04) acre property from the A-1 Agricultural District to the E-3 Estate District. The subject property is located on the west side of McCauley Road, approximately one-third (0.3) mile north of its intersection with Jankowski Road. If approved, the remaining two point zero four (2.04) acres on the western portion of the property, currently fenced for pasture, will be consolidated with the applicant's adjoining southern property, which is used for a horse training and boarding facility. The rezoned eastern three (3) acres would be marketed for sale as a single-family residential lot consistent with the E-3 zoning designation.

According to the plat of survey, the property currently contains a two-story frame residence with a detached frame garage, one (1) frame shed, and a deck featuring a built-in pool and attached gazebo.

MCHENRY COUNTY UNIFIED DEVELOPMENT ORDINANCE

- The Applicant must meet the Approval Standards for Map Amendment, listed in §16.20.010.E.1 of the *McHenry County Unified Development Ordinance*.

STAFF ANALYSIS

Current Land Use & Zoning

The subject property is currently zoned A-1 Agricultural District and is used for single-family residential purposes as well as equestrian facilities. The proposed rezoning to E-3 Estate District is consistent with the district's requirements, which specify a minimum lot size of three (3) acres and a minimum road frontage of two hundred and fifty (250) feet. According to the plat of survey, the property meets these standards.

Surrounding properties to the west and south are zoned A-1 Agricultural District, featuring a mix of residential and agricultural characteristics. Properties to the north and east are zoned A-1 Agricultural and E-3 Estate Districts.

2030 Comprehensive Plan Future Land Use map

The 2030 Comprehensive Plan Future Land Use map depicts this property as being developed with **Agricultural**.

2030 Comprehensive Plan & 2030 and Beyond Analysis

The text of the 2030 Comprehensive Plan and 2030 and Beyond Plan supports the reclassification to the E-1 Estate District. *(See comments below).*

McHenry County 2030 and Beyond, Adopted October 18, 2016—

Big Idea #1 Let's make our communities healthy, active, and green

"We can make it happen by promoting development that is compact, contiguous to, or located within municipalities in order to preserve rural landscapes while providing greater mobility choice for all residents." (p.12)

- The subject property is located approximately three (3) miles from the village of Greenwood.
- The predominant land uses within a quarter (0.25) mile radius of the subject property include agricultural activities and single-family residences on properties zoned A-1 Agriculture, A-2 Agriculture, and E-3 Estate Districts. The proposed rezoning is consistent with this existing pattern, supporting residential development while maintaining the surrounding rural character.

Big Idea #2 Let's build on our strengths

"We can make it happen by preserving our wide array of housing choices and lot sizes – from rural to urban." (p.14)

- The proposed reclassification, if granted, would not result in an increase in residential density, as the property is already developed with a single-family residence. Although the zoning designation would change, the existing use and overall development pattern would remain consistent with the existing pattern and zoning designations in the surrounding area.

Big Idea #3 Let's grow smarter

"We can make it happen by focusing development that is compact, contiguous to, or located within municipalities, and away from areas designated for agriculture and lacking infrastructure and services." (p. 16)

- The proposed rezoning would recognize the existing residential use on the property. This use is contained within the parcel and does not extend into surrounding agricultural land. It directs development to an area with existing residences, balancing expansion with preservation of the agricultural character and development pattern of the area.

Big Idea #4 Let's expand our economy

- No applicable text.

McHenry County 2030 Comprehensive Plan, Adopted April 20, 2010

Community Character & Housing

Objective: *"Promote a mix of housing types and values to meet the needs of all segments of the population."* (p. 15)

- Reclassification to the E-3 Estate District would maintain the rural character of the area while allowing for low-density residential use that is compatible with the surrounding landscape.

Agricultural Resources

Objective: *"Maintain and protect the most productive agricultural lands, where appropriate, by discouraging nonagricultural growth in these areas."* (p. 29)

- The proposed zoning would maintain the existing residential use on the subject property without preventing agriculture activities, which are permitted in all zoning districts. This approach aligns with the surrounding land uses and helps preserves the agricultural character of the surrounding area.

Greenways, Open Space & Natural Resources

Objective: *"Promote land uses that minimize the impact on land, water, energy, and other natural resources."* (p. 43)

- The McHenry-Lake County Soil and Water Conservation District *Natural Resources Inventory* report (NRI L25-087-4748) indicates that a full report isn't necessary due to previously disturbed soils. No wetlands or floodplains were identified as being located on this parcel.

Water Resources

Objective: *"Preserve, improve and replenish the quality and quantity of existing ground water resources."* (p. 63)

- The proposed reclassification does not involve any new improvements that would increase impervious surface area.

Economic Development

- No applicable text.

Infrastructure

- No applicable text.

Future Land Use

Objective: *"Promote increased density and compact, contiguous development."* (p. 125)

- While the proposed reclassification supports compact and contiguous development by aligning with the existing Estate residential patterns in the surrounding area, it does not promote increased density, as no new development is proposed on the subject property.

STAFF ASSESSMENT

The applicant is requesting to rezone approximately three (3) acres of a five point zero four (5.04) acre property from A-1 Agricultural District to E-3 Estate District to allow for a single-family residential lot. The remaining two point zero four (2.04) acres would be consolidated with the applicant's adjacent property to the south, which operates as a horse training and boarding facility. The property is not located within a Sensitive Aquifer Recharge Area (SARA), and no additional development is proposed at this time.

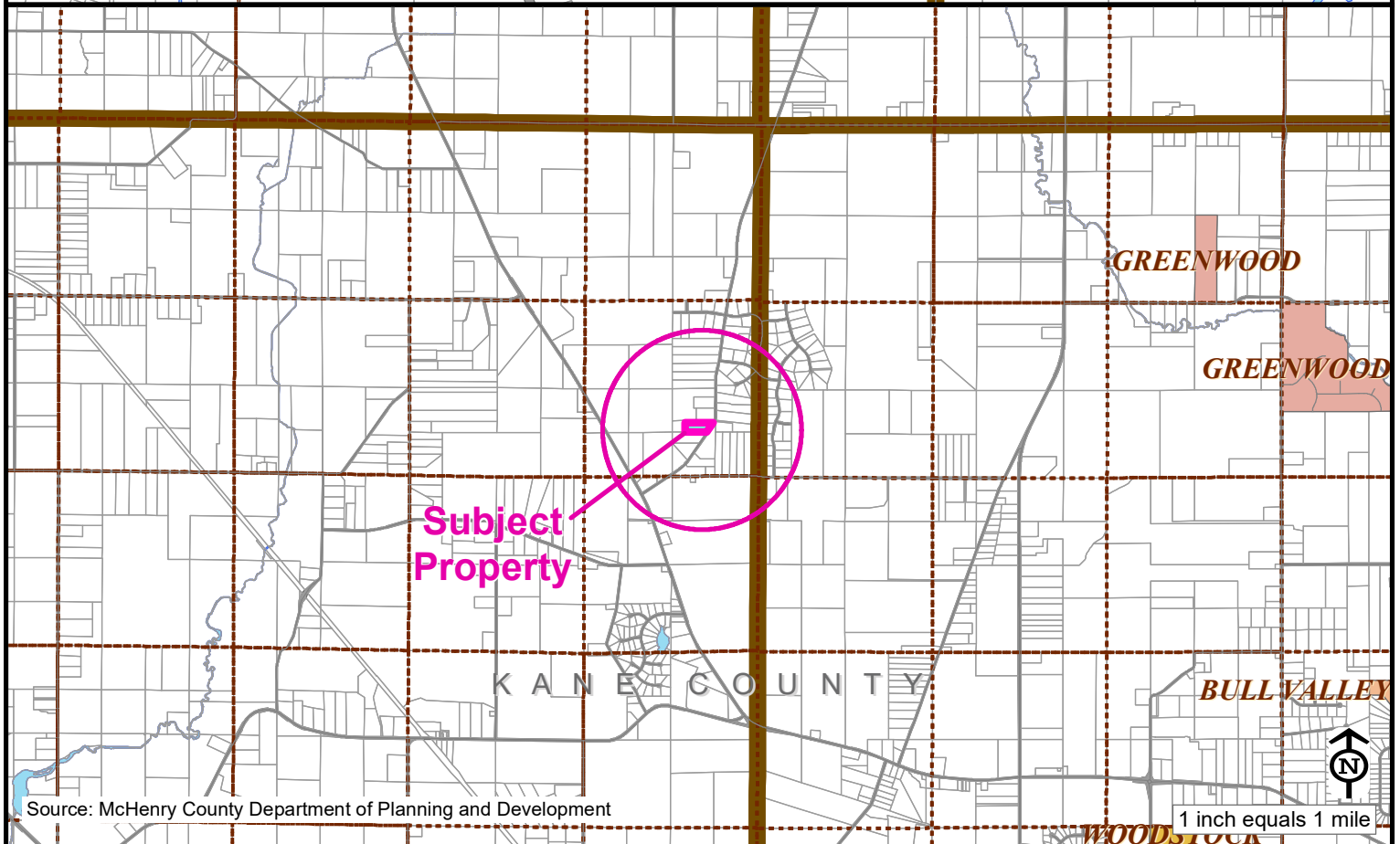
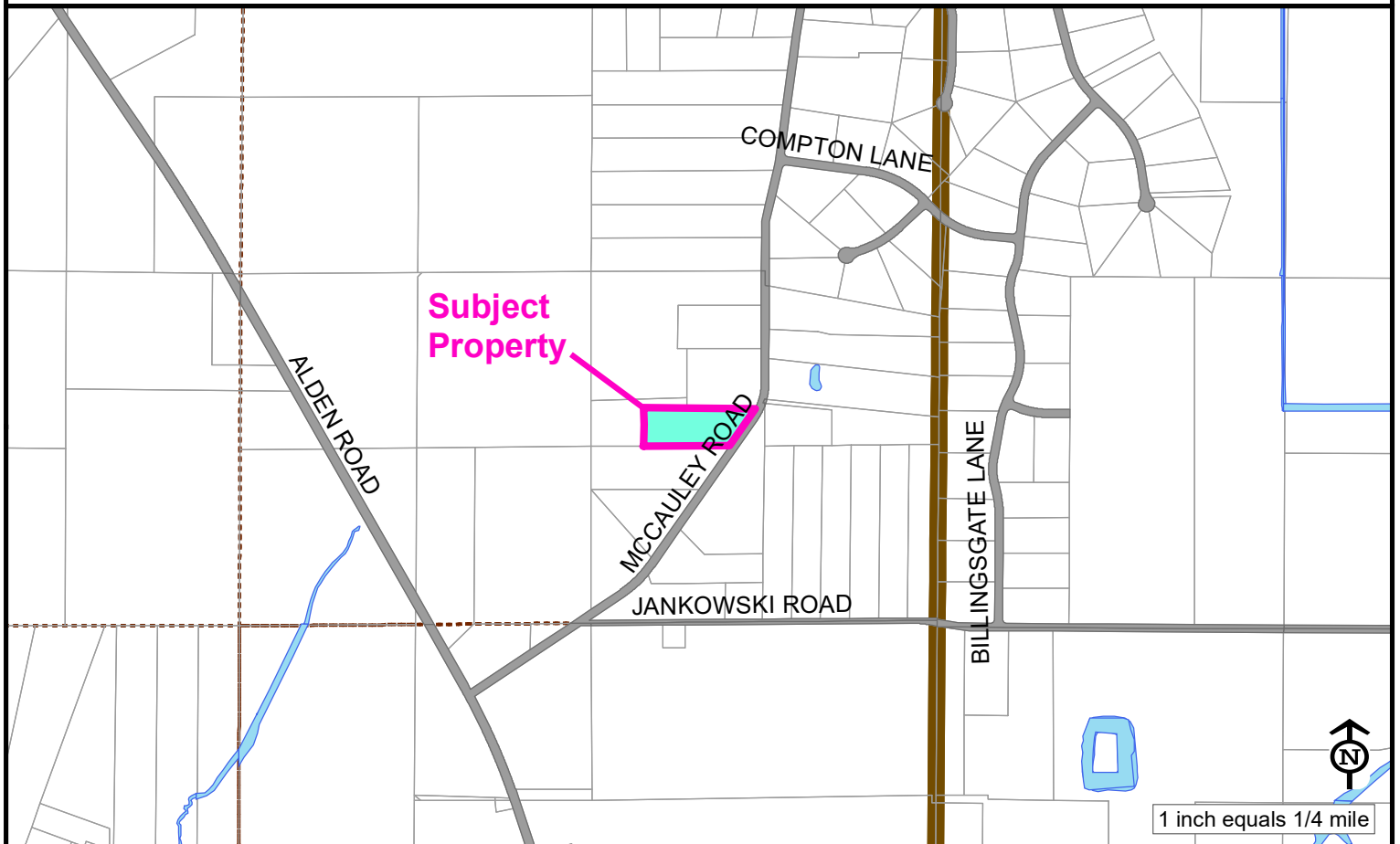
While the Future Land Use Map designates this area as **Agricultural**, the proposed rezoning may be considered consistent with the map's intent to support Estate zoning, as it aligns with the existing E-3 Estate zoning immediately east of the property and the development pattern within approximately one-quarter (0.25) mile to the north and east, where E-3 Estate zoning is already established. Thus, staff has reviewed the request and offers no objections.

Report prepared October 23, 2025, by Melody Jacobson, Planner - McHenry County Department of Planning & Development.

Approval Standards for Zoning Amendments. The Zoning Board of Appeals recommendation and the County Board decision shall consider the following standards. However, the Zoning Board of Appeals' recommendation and the County Board's decision on any zoning text or map amendment is not controlled by any one factor under the following standards, but rather the approval of amendments is based on a balancing of the factors under each standard.

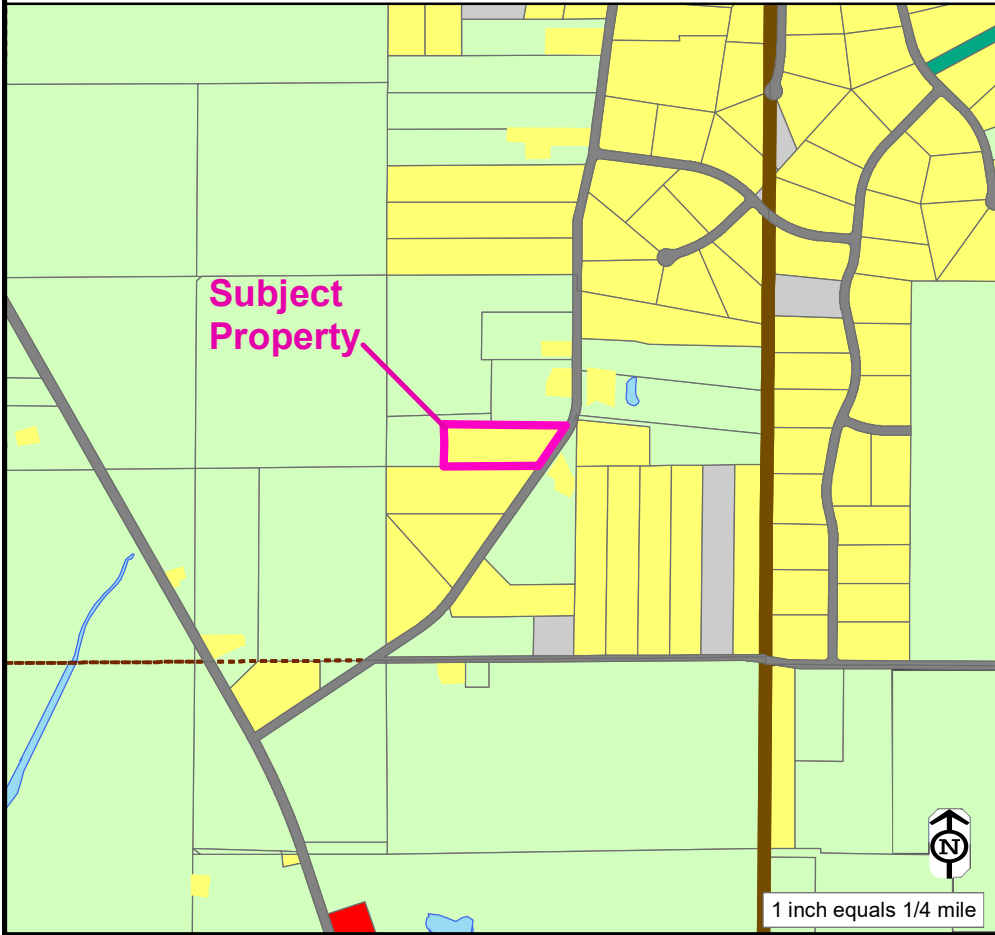
1. *Approval Standards for Map Amendments.*

- a. The compatibility of the proposed zoning with the existing use and zoning of nearby property.
- b. The extent to which property values of the subject property are diminished by the existing zoning.
- c. The extent to which the public health, safety, and welfare of the public are promoted by the existing zoning.
- d. The relative gain to the public, as compared to the hardship imposed upon the applicant, if the proposed zoning is denied.
- e. The suitability of the property for the purposes for which it is presently zoned.
- f. The length of time the property has been vacant as zoned considered in the context of land development in the vicinity of the subject property.
- g. The community need for the proposed use.
- h. The consistency of the proposed amendment with the adopted comprehensive plan and the appropriateness of the comprehensive plan to the subject property.



Source: McHenry County Department of Planning and Development

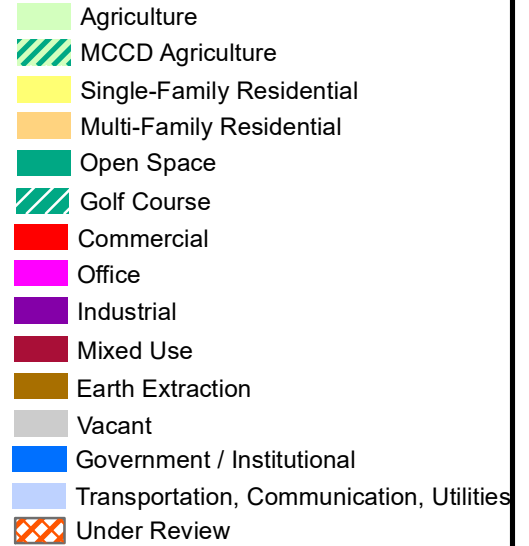
Current Land Use Map



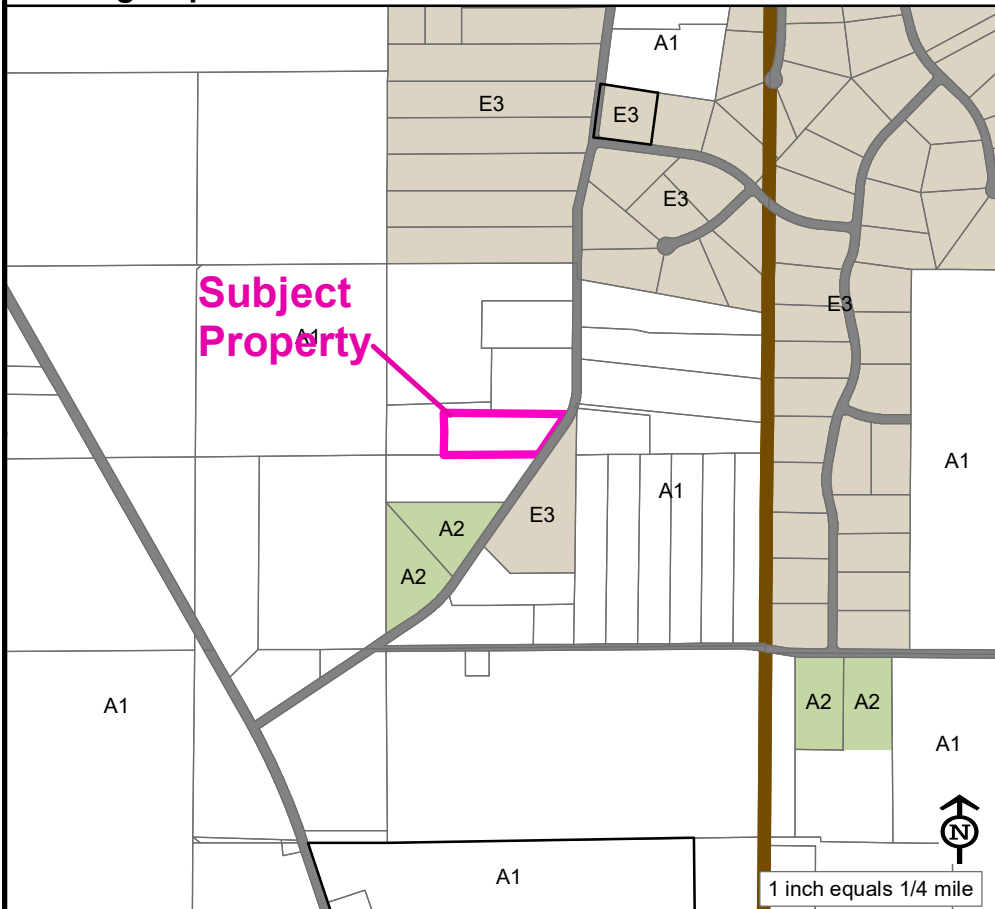
Current Land Use
Single-Family Residential

Adjacent Land Use(s)

North: Agriculture/ Single-Family Residential
South: Single-Family Residential
East: Agriculture/ Single-Family Residential
West: Agriculture



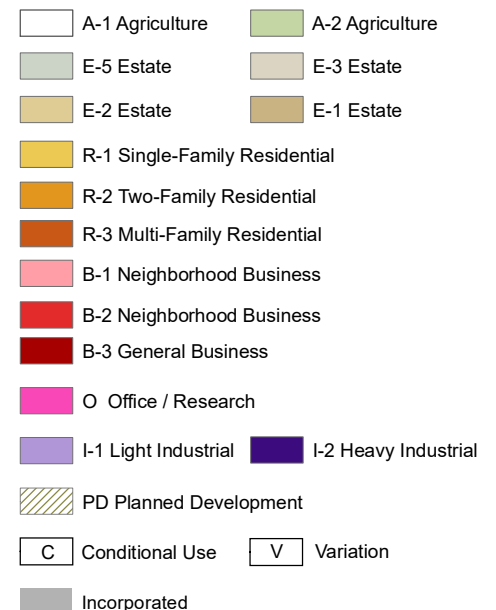
Zoning Map



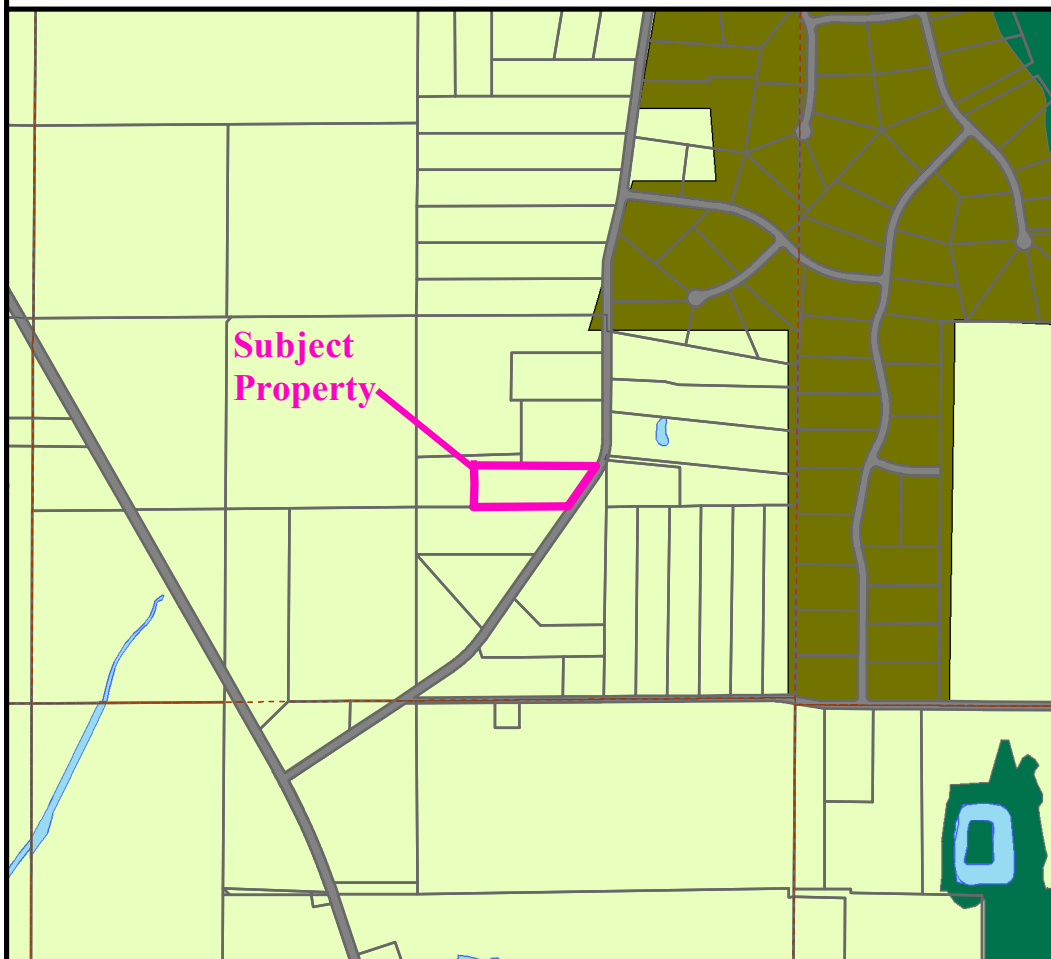
Current Zoning
A-1 Agriculture

Adjacent Zoning

North: A-1 Agriculture
South: A-1 Agriculture
East: E-3 Estate
West: A-1 Agriculture



McHenry County 2030 Comprehensive Plan Future Land Use Map



Municipal / Township Plan Designations

Hartland Township: Single-Family Residential

Woodstock: N/A

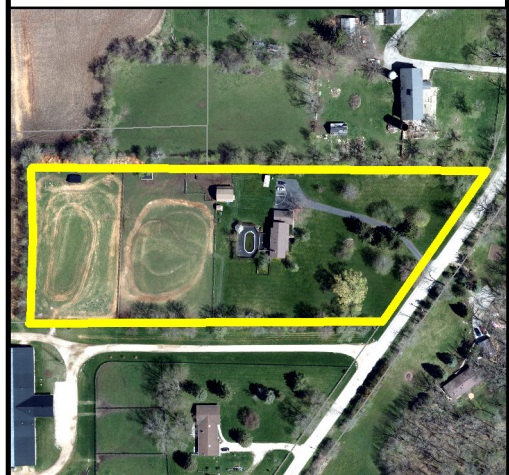
McHenry County 2030 Comprehensive Plan — Text Analysis Land Use

AGRICULTURAL – represents existing agricultural acres, including cropland, pastureland, farm yards, and farmsteads, that should remain in agricultural use through the 2030 planning horizon. Development in the Agricultural District should be strictly limited to agriculture, agricultural residences, and agricultural support uses. (p. 134)

Sensitive Aquifer Recharge Areas

The site is NOT located in a zone with elevated contamination potential.

Sensitive Aquifer Recharge Areas (SARA)



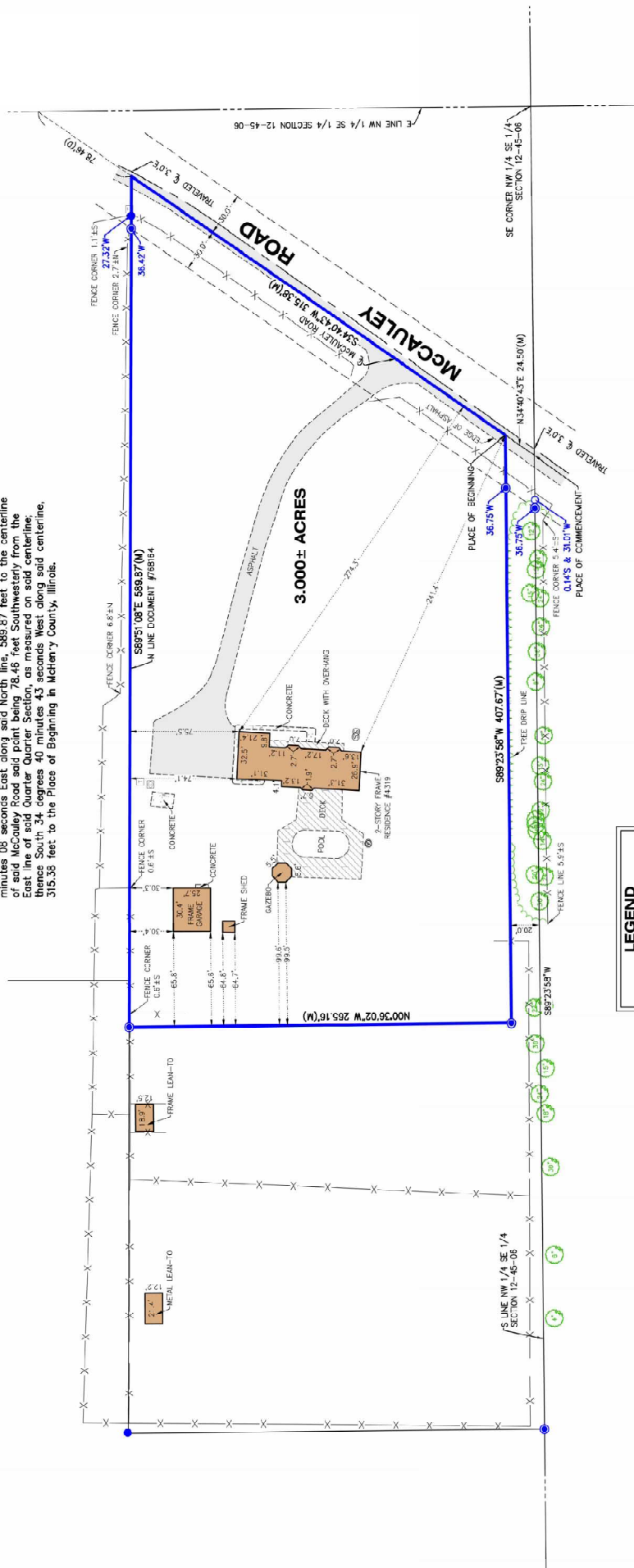
Sensitive Recharge Area



Vanderstappen
Land Surveying, Inc.
1316 N. Madison St.
Woodstock, Illinois 60068
Ph. 415-357-8310 fax 415-357-8314
Always faithful to the property line!

PLAT OF SURVEY

That part of the Northwest Quarter of the Southeast Quarter of Section 12, Township 45 North, Range 16 East of Third Principal Meridian, recorded as follows: Containing the Northeast Quarter of the South line of the road, Northwest Quarter of the Southeast Quarter with the centerline of McCauley Road; thence North 34 degrees 40 minutes 43 seconds East along said centerline, 24.50 feet to the Place of Beginning, thence South 89 degrees 23 minutes 58 seconds West parallel with the South line of the said Northwest Quarter of the Southeast Quarter, 407.67 feet; thence North 00 degrees 36 minutes 02 seconds West, 265.16 feet to the North line of the lands described in Document No. 768164; thence South 89 degrees 51 minutes 03 seconds East along said North line, 589.87 feet to the centerline of said McCauley Road said point being 78.46 feet Southwesterly from the East line of said McCauley Road Section, as measured on said centerline, thence South 34 degrees 40 minutes 43 seconds West along said centerline, 315.55 feet to the Place of Beginning in McHenry County, Illinois.



LEGEND	
✕	FOUND CROSS
●	FOUND IRON BAR
○	FOUND IRON PIPE
⊗	FOUND MAG NAIL
⊙	SEPTIC LID
⊕	SET IRON BAR
⊖	SET MAG NAIL
⊗	TELEPHONE RISER
⊙	TRANSFORMER
○	TREE
(D)	WELL
(M)	DEED
(M)	MEASURED



NOTE: Only those Building Line Restrictions or Easements shown on a Recorded Subdivision Plat are shown hereon unless the description ordered to be recorded contains a proper description of the required building lines or easements.
* No distances should be assumed by scaling, or possession should be hereon implied.
* No underground improvements have been located unless shown and noted.
* This Survey and Plat of Survey are void without original embossed or colored seal and signature affixed.

Compare your description and site markings with this plat and AT ONCE report any discrepancies which you may find.



STATE OF ILLINOIS)
COUNTY OF MCHENRY) S.S.

In my professional opinion, and based on my observations, I hereby certify that we have surveyed the premises above described, and that the plat hereon is a true representation of the said survey. This professional service conforms to the current Illinois minimum standards for a boundary survey.

Dated at Woodstock, McHenry County, Illinois 10/17 A.D. 2025.
Vanderstappen Land Surveying Inc.
Design Firm No. 184-002782

By: *Lisa White*
Illinois Professional Land Surveyor No. 0050706

McHENRY-LAKE COUNTY SOIL & WATER CONSERVATION DISTRICT



1648 S. Eastwood Dr. Woodstock, Illinois 60098 (815) 338-0444 ext. 3 www.mchenryswcd.org

October 31, 2025

Paul Flynn
4319 McCauley Rd.
Woodstock, IL 60098
Email: whitelisajo@aol.com

Re: Parcel # 07-12-400-026
Common Location: 4319 McCauley Rd, Woodstock, IL
NRI# L25-087-4748
Zoning Change: A-1 to E-3

Dear Mr. Flynn:

The McHenry-Lake County Soil and Water Conservation District has carefully reviewed your application for Natural Resource Information Report on the LJW LLC (Paul Flynn) property as applied for in Report #25-087-4748. Due to the amount of previously disturbed soils on the site, the SWCD finds that impact to natural resources from the proposed use is minimal for the purposes of the NRI report. A full Natural Resource Information Report will not be necessary.

No floodplain or wetlands were found on the site from office maps. Our wetland inventory is for informational and planning purposes only. Any proposed drainage work, in wet areas, requires a certified wetland delineation. If drainage work is to occur, please contact the Army Corps of Engineers and McHenry County Department of Planning & Development for permit information.

This letter fulfills your requirement to notify the SWCD of land use changes as per the Illinois Compiled State Statutes, Chapter 70, Par. 405/1 et seq. Illinois Revised Statutes, Ch. 5, Par 106 et seq. and the McHenry County Stormwater Ordinance. If you have any questions concerning this letter, feel free to call our office.

Sincerely,

Spring M. Duffey
Executive Director

cc. McHenry County Department of Planning and Development

IN THE MATTER OF THE APPLICATION OF
LJW LLC, OWNER/APPLICANT FOR AN AMENDMENT OF THE
UNIFIED DEVELOPMENT ORDINANCE OF McHENRY COUNTY,
ILLINOIS FOR **A RECLASSIFICATION**

)
) LEGAL NOTICE OF PUBLIC HEARING
) Z25-0096
)

Notice is hereby given in compliance with the McHenry County Unified Development Ordinance, that a public hearing will be held before the **McHenry County Zoning Board of Appeals**, in connection with this Ordinance, which would result in a **RECLASSIFICATION** for the following described real estate:

THAT PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 12, TOWNSHIP 45 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS; COMMENCING AT THE INTERSECTION OF THE SOUTH LINE OF THE SAID NORTHWEST QUARTER OF THE SOUTHEAST QUARTER WITH THE CENTERLINE OF MCCAULEY ROAD; THENCE NORTH 34 DEGREES 40 MINUTES 43 SECONDS EAST ALONG SAID CENTERLINE, 24.50 FEET TO THE PLACE OF BEGINNING; THENCE SOUTH 89 DEGREES 23 MINUTES 58 SECONDS WEST PARALLEL WITH THE SOUTH LINE OF THE SAID NORTHWEST QUARTER OF THE SOUTHEAST QUARTER, 407.67 FEET; THENCE NORTH 00 DEGREES 36 MINUTES 02 SECONDS WEST, 265.16 FEET TO THE NORTH LINE OF THE LANDS DESCRIBED IN DOCUMENT NO. 768164; THENCE SOUTH 89 DEGREES 51 MINUTES 08 SECONDS EAST ALONG SAID NORTH LINE, 589.87 FEET TO THE CENTERLINE OF SAID MCCAULEY ROAD SAID POINT BEING 78.46 FEET SOUTHWESTERLY FROM THE EAST LINE OF SAID QUARTER QUARTER SECTION, AS MEASURED ON SAID CENTERLINE, THENCE SOUTH 34 DEGREES 40 MINUTES 43 SECONDS WEST ALONG SAID CENTERLINE, 315.38 FEET TO THE PLACE OF BEGINNING IN MCHENRY COUNTY, ILLINOIS.

PINs 07-12-400-026

The subject property is located at the west side of McCauley Road, approximately one thousand seven hundred seventy (1,770) feet north of the intersection of McCauley Road with Jankowski Road, **with a common address of 4319 McCauley Road, Woodstock, Illinois, in Hartland Township.**

The subject property is presently zoned **"A-1" Agriculture District** and consists of approximately **three (3) acres** with **"A-1" Agriculture District** zoning to the North, South and West, and **"E-3" Estate District** zoning to the East.

The Applicant is requesting a reclassification from "A-1" Agriculture District to "E-3" Estate District.

The Managing Partner of LJW, LLC, the Owner/Applicant, is Lisa J. White. She can be reached at 9006 W Wonder Lake Road Woodstock, IL 60098.

A hearing on this Petition will be held on the 13th day of November 2025 at 1:30 P.M. in the County Board Conference Room at the McHenry County Government Center/Ware Road Administration Building 667 Ware Road, Woodstock, Illinois at which time and place any person desiring to be heard may be present. The McHenry County Government Center mailing address is 2200 N. Seminary Avenue, Woodstock, Illinois 60098.

DATED THIS 21st DAY OF OCTOBER 2025.

By: Linnea Kooistra, Chair
McHenry County Zoning Board of Appeals
2200 N. Seminary Avenue
Woodstock, IL 60098

Petitions for all Zoning Board of Appeals hearings can be accessed at the following link:
www.mchenrycountyil.gov/county-government/new-meeting-portal and choosing the "Agenda" link for the specific meeting date.

Live audio streams of all Zoning Board of Appeals hearings can be accessed at the following link:
www.mchenrycountyil.gov/county-government/new-meeting-portal and choosing the "Video" link for the specific meeting date.

NARRATIVE: Please use the space to explain your request in detail.

The Petitioner requests the reclassification of the eastern 3 acres of a 5.038 acre residential property which is in the A-1 zoning district, to E-3 Estate district zoning. If the Petitioner's request is granted, Petition intends to connect the remaining western 2.038 acres of the A-1 subject property, which is currently fenced for pasture, to the adjoining southern property which Petitioner currently owns and operates a horse training and boarding facility on. The eastern 3-acre portion of the subject property would be placed on the market and sold as a single-family residential under the E-3 zoning classification.

Petitioner has created a proposed zoning lot which leaves a full 3 acres for the subject property to be reclassified as E-3 Estate District. This allows the remaining 2.038 acres to remain A-1 Agriculture District and can then be legally sold to the adjoining property to the south. The 2.038 acres to be transferred incorporates the pastures on the western portion of the subject property and incorporates the tree line on the southern portion of the subject property to ensure that there remains a break between the properties for both privacy as well as weather screening.

Petitioner has no reservation about combining the 2.038 acres with the southern property as it is the intention to incorporate the pastures on that area of the subject property into the operation of Petitioner's adjoining horse facility.

Approval Standards for Map Amendments
(McHenry County Unified Development Ordinance §16.20.010E.1)

This form must be completed for requests for map amendment(s). Yes and No answers are insufficient, please provide a minimum of one (1) or two (2) sentence explanation. If there is insufficient room (650 character limit), please provide a separate response page.

1. Is the **proposed zoning designation** compatible with the existing uses and zoning designations of nearby properties?

Yes. There is E-3 zoning directly across the road and the subject property lies in close proximity to a residential subdivision which is zoning E-3.

2. To what extent is the value of the subject property diminished by the **existing zoning designation**?

The property is only conforming as a result of the reduction of acreage for A-1 residential uses from 40 acres to 5 acres which occurred decades ago. E-3 is a more fitting a desirable designation for a property that is located in a primarily residential area and used primarily for residential uses.

3. Is there a benefit to the health, safety, and welfare of the public under the **current zoning designation**?

None that can be articulated.

4. Is the property suitable for uses allowed under the **current zoning designation**?

A-1 is primarily reserved for agricultural uses. This property is primarily a residential use.

5. How long has the property been vacant under the **current zoning designation**?

is currently being vacated.

6. Is there a public need for the **proposed use** of the property?

Rural housing is always in high demand in this area.

7. Is the proposed use consistent with the McHenry County 2030 and Beyond Comprehensive Plan? If not, please explain how the plan designation is inappropriate for this property?

The 2030 Plan designates this area as A-1 Agricultural. However, the area has been used primarily for residential use for more than 30 years. Therefore, the 2030 Comprehensive Plan does not accurately portray the current existing uses.

If the requested zoning classification is A-2 Agriculture District, then address the following (From McHenry County Unified Development Ordinance §16.36.020)

1. What is the current zoning of the subject property (note: only properties which are currently zoned A-1 Agriculture may be considered for A-2 Agriculture zoning)?

A-1 Agriculture District

2. Excluding mobile homes, agricultural trailers, and agriculture employee housing, is there a residence on the property?

☐

Yes

☐

No

3. Is the area being reclassified part of more than one parcel?

☐

Yes

☐

No

4. Which exemption from the Illinois Plat Act (765 ILCS 205/ et seq.) applies to this request?

☐

- a. The division or subdivision of land into parcels or tracts of five (5) acres or more in size which does not involve any new streets or easements of access?

☐

- b. The sale or exchange of parcels or tracts of land following the division into no more than two (2) parts of a particular parcel or tract of land existing on July 17, 1959 and not involving any new streets or easements of access?

☐

- c. The sale of a single lot of less than five (5) acres from a larger tract when a survey is made by an Illinois Registered Land Surveyor, provided that this exemption shall not apply to the sale of any subsequent lots from the same larger tract of land, as determined by the dimensions and configuration of the larger tract on October 1, 1973, and provided also that this exemption does not invalidate any local requirements applicable to the subdivision of property?